APPENDIX 5.3 BIG-1

AIR QUALITY TECHNICAL REPORT

*PART 18

963	490436.72, 3861085.12	1.11E-02	5.22E-04	2.43E-03	1.95E-03	8.24E-05	6.24E-03	1.94E-06	0.02227767	6.02E-03	5.22E-04	2.43E-03	1.95E-03	8.24E-05	1.33E-04	6.24E-03	1.74E-02
964	490486.72, 3861085.12	1.10E-02	5.31E-04	2.46E-03	1.95E-03	8.25E-05	6.20E-03	1.92E-06	0.02225829	6.02E-03	5.31E-04	2.46E-03	1.95E-03	8.25E-05	1.34E-04	6.20E-03	1.74E-02
965	490536.72, 3861085.12	1.10E-02	5.42E-04	2.50E-03	1.95E-03	8.27E-05	6.16E-03	1.90E-06	0.02224524	6.03E-03	5.42E-04	2.50E-03	1.95E-03	8.27E-05	1.34E-04	6.16E-03	1.74E-02
966	490586.72, 3861085.12	1.10E-02	5.52E-04	2.53E-03	1.95E-03	8.27E-05	6.10E-03	1.87E-06	0.02220651	6.03E-03	5.52E-04	2.53E-03	1.95E-03	8.27E-05	1.35E-04	6.10E-03	1.74E-02
967	490636.72, 3861085.12	1.10E-02	5.63E-04	2.55E-03	1.94E-03	8.27E-05	6.04E-03	1.85E-06	0.02215821	6.03E-03	5.63E-04	2.55E-03	1.94E-03	8.27E-05	1.35E-04	6.04E-03	1.74E-02
968	490686.72, 3861085.12	1.09E-02	5.75E-04	2.58E-03	1.94E-03	8.27E-05	5.99E-03	1.83E-06	0.02210723	6.03E-03	5.75E-04	2.58E-03	1.94E-03	8.27E-05	1.36E-04	5.99E-03	1.73E-02
969	490736.72, 3861085.12	1.09E-02	5.87E-04	2.61E-03	1.93E-03	8.28E-05	5.94E-03	1.81E-06	0.0220806	6.04E-03	5.87E-04	2.61E-03	1.93E-03	8.28E-05	1.36E-04	5.94E-03	1.73E-02
970	490786.72, 3861085.12	1.09E-02	6.01E-04	2.64E-03	1.93E-03	8.30E-05	5.89E-03	1.79E-06	0.02205909	6.05E-03	6.01E-04	2.64E-03	1.93E-03	8.30E-05	1.37E-04	5.89E-03	1.73E-02
971	490836.72, 3861085.12	1.09E-02	6.15E-04	2.68E-03	1.92E-03	8.31E-05	5.84E-03	1.77E-06	0.02204049	6.06E-03	6.15E-04	2.68E-03	1.92E-03	8.31E-05	1.38E-04	5.84E-03	1.73E-02
972	490086.72, 3861135.12	1.05E-02	4.51E-04	2.10E-03	1.88E-03	7.99E-05	6.06E-03	2.12E-06	0.02108861	5.67E-03	4.51E-04	2.10E-03	1.88E-03	7.99E-05	1.30E-04	6.06E-03	1.64E-02
973	490136.72, 3861135.12	1.05E-02	4.58E-04	2.13E-03	1.89E-03	8.01E-05	6.05E-03	2.08E-06	0.02108536	5.66E-03	4.58E-04	2.13E-03	1.89E-03	8.01E-05	1.30E-04	6.05E-03	1.64E-02
974	490186.72, 3861135.12	1.05E-02	4.65E-04	2.16E-03	1.90E-03	8.02E-05	6.03E-03	2.04E-06	0.02110309	5.67E-03	4.65E-04	2.16E-03	1.90E-03	8.02E-05	1.30E-04	6.03E-03	1.64E-02
975	490236.72, 3861135.12	1.05E-02	4.73E-04	2.19E-03	1.90E-03	8.04E-05	6.01E-03	2.01E-06	0.02110958	5.67E-03	4.73E-04	2.19E-03	1.90E-03	8.04E-05	1.30E-04	6.01E-03	1.65E-02
976	490286.72, 3861135.12	1.04E-02	4.80E-04	2.22E-03	1.90E-03	8.04E-05	5.98E-03	1.98E-06	0.02109138	5.66E-03	4.80E-04	2.22E-03	1.90E-03	8.04E-05	1.30E-04	5.98E-03	1.65E-02
977	490336.72, 3861135.12	1.04E-02	4.88E-04	2.25E-03	1.90E-03	8.04E-05	5.95E-03	1.95E-06	0.02106732	5.66E-03	4.88E-04	2.25E-03	1.90E-03	8.04E-05	1.30E-04	5.95E-03	1.65E-02
978	490386.72, 3861135.12	1.04E-02	4.97E-04	2.28E-03	1.91E-03	8.05E-05	5.92E-03	1.92E-06	0.02106918	5.67E-03	4.97E-04	2.28E-03	1.91E-03	8.05E-05	1.30E-04	5.92E-03	1.65E-02
979	490436.72, 3861135.12	1.04E-02	5.05E-04	2.30E-03	1.91E-03	8.06E-05	5.88E-03	1.90E-06	0.02106261	5.67E-03	5.05E-04	2.30E-03	1.91E-03	8.06E-05	1.31E-04	5.88E-03	1.65E-02
980	490486.72, 3861135.12	1.04E-02	5.14E-04	2.33E-03	1.91E-03	8.07E-05	5.85E-03	1.88E-06	0.02104871	5.67E-03	5.14E-04	2.33E-03	1.91E-03	8.07E-05	1.31E-04	5.85E-03	1.65E-02
981	490536.72, 3861135.12	1.03E-02	5.24E-04	2.36E-03	1.91E-03	8.08E-05	5.81E-03	1.86E-06	0.02104327	5.68E-03	5.24E-04	2.36E-03	1.91E-03	8.08E-05	1.31E-04	5.81E-03	1.65E-02
982	490586.72, 3861135.12	1.03E-02	5.34E-04	2.39E-03	1.91E-03	8.09E-05	5.77E-03	1.83E-06	0.02103052	5.69E-03	5.34E-04	2.39E-03	1.91E-03	8.09E-05	1.32E-04	5.77E-03	1.65E-02
983	490636.72, 3861135.12	1.03E-02	5.44E-04	2.41E-03	1.90E-03	8.09E-05	5.72E-03	1.81E-06	0.02098705	5.69E-03	5.44E-04	2.41E-03	1.90E-03	8.09E-05	1.32E-04	5.72E-03	1.65E-02
984	490686.72, 3861135.12	1.03E-02	5.55E-04	2.44E-03	1.90E-03	8.09E-05	5.68E-03	1.79E-06	0.0209725	5.70E-03	5.55E-04	2.44E-03	1.90E-03	8.09E-05	1.32E-04	5.68E-03	1.65E-02
985	490736.72, 3861135.12	1.03E-02	5.66E-04	2.46E-03	1.90E-03	8.11E-05	5.64E-03	1.77E-06	0.02095049	5.71E-03	5.66E-04	2.46E-03	1.90E-03	8.11E-05	1.33E-04	5.64E-03	1.65E-02
986	490786.72, 3861135.12	1.03E-02	5.78E-04	2.49E-03	1.89E-03	8.12E-05	5.60E-03	1.75E-06	0.02094189	5.72E-03	5.78E-04	2.49E-03	1.89E-03	8.12E-05	1.34E-04	5.60E-03	1.65E-02
987	490836.72, 3861135.12	1.03E-02	5.92E-04	2.52E-03	1.89E-03	8.12E-05	5.56E-03	1.74E-06	0.02093313	5.74E-03	5.92E-04	2.52E-03	1.89E-03	8.12E-05	1.34E-04	5.56E-03	1.65E-02
988	490086.72, 3861185.12	9.85E-03	4.39E-04	2.01E-03	1.84E-03	7.82E-05	5.68E-03	2.09E-06	0.01989059	5.33E-03	4.39E-04	2.01E-03	1.84E-03	7.82E-05	1.27E-04	5.68E-03	1.55E-02
989	490136.72, 3861185.12	9.83E-03	4.44E-04	2.03E-03	1.84E-03	7.82E-05	5.65E-03	2.04E-06	0.01987989	5.33E-03	4.44E-04	2.03E-03	1.84E-03	7.82E-05	1.27E-04	5.65E-03	1.55E-02
990	490186.72, 3861185.12	9.82E-03	4.51E-04	2.06E-03	1.85E-03	7.83E-05	5.64E-03	2.00E-06	0.01989091	5.33E-03	4.51E-04	2.06E-03	1.85E-03	7.83E-05	1.28E-04	5.64E-03	1.55E-02
991	490236.72, 3861185.12	9.80E-03	4.59E-04	2.08E-03	1.85E-03	7.85E-05	5.63E-03	1.97E-06	0.01990503	5.33E-03	4.59E-04	2.08E-03	1.85E-03	7.85E-05	1.28E-04	5.63E-03	1.56E-02
992	490286.72, 3861185.12	9.79E-03	4.66E-04	2.12E-03	1.86E-03	7.87E-05	5.62E-03	1.94E-06	0.01992717	5.34E-03	4.66E-04	2.12E-03	1.86E-03	7.87E-05	1.28E-04	5.62E-03	1.56E-02
993	490336.72, 3861185.12	9.77E-03	4.73E-04	2.13E-03	1.86E-03	7.86E-05	5.58E-03	1.91E-06	0.01990131	5.34E-03	4.73E-04	2.13E-03	1.86E-03	7.86E-05	1.28E-04	5.58E-03	1.56E-02
994	490386.72, 3861185.12	9.76E-03	4.82E-04	2.16E-03	1.86E-03	7.87E-05	5.56E-03	1.89E-06	0.01990839	5.34E-03	4.82E-04	2.16E-03	1.86E-03	7.87E-05	1.28E-04	5.56E-03	1.56E-02
995	490436.72, 3861185.12	9.77E-03	4.90E-04	2.19E-03	1.87E-03	7.89E-05	5.55E-03	1.86E-06	0.01993716	5.35E-03	4.90E-04	2.19E-03	1.87E-03	7.89E-05	1.28E-04	5.55E-03	1.57E-02
996	490486.72, 3861185.12	9.76E-03	4.98E-04	2.21E-03	1.87E-03	7.89E-05	5.52E-03	1.84E-06	0.01993545	5.36E-03	4.98E-04	2.21E-03	1.87E-03	7.89E-05	1.28E-04	5.52E-03	1.57E-02
997	490536.72, 3861185.12	9.76E-03	5.07E-04	2.25E-03	1.87E-03	7.92E-05	5.50E-03	1.82E-06	0.01997232	5.37E-03	5.07E-04	2.25E-03	1.87E-03	7.92E-05	1.29E-04	5.50E-03	1.57E-02
998	490586.72, 3861185.12	9.75E-03	5.17E-04	2.27E-03	1.87E-03	7.92E-05	5.47E-03	1.80E-06	0.01995683	5.38E-03	5.17E-04	2.27E-03	1.87E-03	7.92E-05	1.29E-04	5.47E-03	1.57E-02
999	490636.72, 3861185.12	9.73E-03	5.26E-04	2.28E-03	1.87E-03	7.91E-05	5.42E-03	1.77E-06	0.01990486	5.38E-03	5.26E-04	2.28E-03	1.87E-03	7.91E-05	1.29E-04	5.42E-03	1.57E-02
1000	490686.72, 3861185.12	9.72E-03	5.36E-04	2.30E-03	1.86E-03	7.91E-05	5.39E-03	1.75E-06	0.0198921	5.39E-03	5.36E-04	2.30E-03	1.86E-03	7.91E-05	1.29E-04	5.39E-03	1.57E-02
1001	490736.72, 3861185.12	9.73E-03	5.47E-04	2.33E-03	1.86E-03	7.93E-05	5.36E-03	1.74E-06	0.01991331	5.41E-03	5.47E-04	2.33E-03	1.86E-03	7.93E-05	1.30E-04	5.36E-03	1.57E-02
1002	490786.72, 3861185.12	9.73E-03	5.58E-04	2.36E-03	1.86E-03	7.94E-05	5.33E-03	1.72E-06	0.01991025	5.42E-03	5.58E-04	2.36E-03	1.86E-03	7.94E-05	1.31E-04	5.33E-03	1.57E-02
1003	490836.72, 3861185.12	9.73E-03	5.70E-04	2.38E-03	1.85E-03	7.95E-05	5.29E-03	1.70E-06	0.01990477	5.44E-03	5.70E-04	2.38E-03	1.85E-03	7.95E-05	1.31E-04	5.29E-03	1.57E-02
1004	490086.72, 3861235.12	9.25E-03	4.26E-04	1.92E-03	1.80E-03	7.65E-05	5.33E-03	2.06E-06	0.01880364	5.03E-03	4.26E-04	1.92E-03	1.80E-03	7.65E-05	1.25E-04	5.33E-03	1.47E-02
1005	490136.72, 3861235.12	9.25E-03	4.33E-04	1.94E-03	1.80E-03	7.65E-05	5.31E-03	2.01E-06	0.01881357	5.03E-03	4.33E-04	1.94E-03	1.80E-03	7.65E-05	1.25E-04	5.31E-03	1.47E-02
1006	490186.72, 3861235.12	9.23E-03	4.39E-04	1.97E-03	1.81E-03	7.67E-05	5.30E-03	1.97E-06	0.01882465	5.03E-03	4.39E-04	1.97E-03	1.81E-03	7.67E-05	1.25E-04	5.30E-03	1.47E-02
1007	490236.72, 3861235.12	9.22E-03	4.46E-04	1.98E-03	1.81E-03	7.67E-05	5.28E-03	1.93E-06	0.01881917	5.03E-03	4.46E-04	1.98E-03	1.81E-03	7.67E-05	1.25E-04	5.28E-03	1.48E-02
1008	490386.72, 3861235.12	9.20E-03	4.67E-04	2.05E-03	1.82E-03	7.69E-05	5.24E-03	1.85E-06	0.01885425	5.05E-03	4.67E-04	2.05E-03	1.82E-03	7.69E-05	1.25E-04	5.24E-03	1.48E-02
1009	490436.72, 3861235.12	9.19E-03	4.75E-04	2.07E-03	1.82E-03	7.70E-05	5.22E-03	1.82E-06	0.0188545	5.06E-03	4.75E-04	2.07E-03	1.82E-03	7.70E-05	1.25E-04	5.22E-03	1.48E-02
1010	490486.72, 3861235.12	9.20E-03	4.83E-04	2.09E-03	1.82E-03	7.70E-05	5.20E-03	1.80E-06	0.01887201	5.07E-03	4.83E-04	2.09E-03	1.82E-03	7.70E-05	1.25E-04	5.20E-03	1.49E-02
1011	490536.72, 3861235.12	9.20E-03	4.92E-04	2.13E-03	1.83E-03	7.74E-05	5.20E-03	1.79E-06	0.01893115	5.08E-03	4.92E-04	2.13E-03	1.83E-03	7.74E-05	1.26E-04	5.20E-03	1.49E-02
1012	490586.72, 3861235.12	9.20E-03	5.01E-04	2.16E-03	1.84E-03	7.76E-05	5.19E-03	1.77E-06	0.01896574	5.10E-03	5.01E-04	2.16E-03	1.84E-03	7.76E-05	1.26E-04	5.19E-03	1.50E-02
1013	490636.72, 3861235.12	9.19E-03	5.09E-04	2.16E-03	1.83E-03	7.74E-05	5.14E-03	1.74E-06	0.01891106	5.10E-03	5.09E-04	2.16E-03	1.83E-03	7.74E-05	1.26E-04	5.14E-03	1.49E-02
1014	490686.72, 3861235.12	9.19E-03	5.19E-04	2.18E-03	1.83E-03	7.74E-05	5.11E-03	1.72E-06	0.0189074	5.11E-03	5.19E-04	2.18E-03	1.83E-03	7.74E-05	1.27E-04	5.11E-03	1.50E-02
1015	490736.72, 3861235.12	9.19E-03	5.29E-04	2.21E-03	1.83E-03	7.76E-05	5.09E-03	1.70E-06	0.01893026	5.12E-03	5.29E-04	2.21E-03	1.83E-03	7.76E-05	1.27E-04	5.09E-03	1.50E-02
1016	490786.72, 3861235.12	9.20E-03	5.39E-04	2.24E-03	1.83E-03	7.78E-05	5.07E-03	1.69E-06	0.0189546	5.14E-03	5.39E-04	2.24E-03	1.83E-03	7.78E-05	1.28E-04	5.07E-03	1.50E-02

1017	490836.72, 3861235.12	9.21E-03	5.51E-04	2.26E-03	1.82E-03	7.79E-05	5.04E-03	1.67E-06	0.01896612	5.16E-03	5.51E-04	2.26E-03	1.82E-03	7.79E-05	1.29E-04	5.04E-03	1.50E-02
1018	490086.72, 3861285.12	8.74E-03	4.16E-04	1.85E-03	1.76E-03	7.50E-05	5.02E-03	2.03E-06	0.01786532	4.77E-03	4.16E-04	1.85E-03	1.76E-03	7.50E-05	1.23E-04	5.02E-03	1.40E-02
1019	490136.72, 3861285.12	8.74E-03	4.22E-04	1.87E-03	1.77E-03	7.52E-05	5.02E-03	1.99E-06	0.01789397	4.77E-03	4.22E-04	1.87E-03	1.77E-03	7.52E-05	1.23E-04	5.02E-03	1.40E-02
1020	490186.72, 3861285.12	8.72E-03	4.27E-04	1.88E-03	1.77E-03	7.51E-05	5.00E-03	1.94E-06	0.01787421	4.77E-03	4.27E-04	1.88E-03	1.77E-03	7.51E-05	1.23E-04	5.00E-03	1.40E-02
1021	490236.72, 3861285.12	8.72E-03	4.34E-04	1.90E-03	1.77E-03	7.52E-05	4.98E-03	1.90E-06	0.017884	4.78E-03	4.34E-04	1.90E-03	1.77E-03	7.52E-05	1.23E-04	4.98E-03	1.41E-02
1022	490386.72, 3861285.12	8.69E-03	4.54E-04	1.95E-03	1.78E-03	7.53E-05	4.94E-03	1.82E-06	0.0178996	4.79E-03	4.54E-04	1.95E-03	1.78E-03	7.53E-05	1.23E-04	4.94E-03	1.41E-02
1023	490436.72, 3861285.12	8.69E-03	4.61E-04	1.98E-03	1.78E-03	7.55E-05	4.94E-03	1.79E-06	0.0179251	4.80E-03	4.61E-04	1.98E-03	1.78E-03	7.55E-05	1.23E-04	4.94E-03	1.42E-02
1024	490486.72, 3861285.12	8.69E-03	4.69E-04	1.99E-03	1.79E-03	7.55E-05	4.92E-03	1.77E-06	0.01793511	4.81E-03	4.69E-04	1.99E-03	1.79E-03	7.55E-05	1.23E-04	4.92E-03	1.42E-02
1025	490536.72, 3861285.12	8.69E-03	4.77E-04	2.01E-03	1.79E-03	7.56E-05	4.91E-03	1.75E-06	0.01795838	4.82E-03	4.77E-04	2.01E-03	1.79E-03	7.56E-05	1.23E-04	4.91E-03	1.42E-02
1026	490586.72, 3861285.12	8.70E-03	4.85E-04	2.04E-03	1.79E-03	7.57E-05	4.90E-03	1.73E-06	0.01798982	4.83E-03	4.85E-04	2.04E-03	1.79E-03	7.57E-05	1.24E-04	4.90E-03	1.42E-02
1027	490636.72, 3861285.12	8.69E-03	4.93E-04	2.05E-03	1.79E-03	7.57E-05	4.87E-03	1.71E-06	0.01796864	4.84E-03	4.93E-04	2.05E-03	1.79E-03	7.57E-05	1.24E-04	4.87E-03	1.42E-02
1028	490686.72, 3861285.12	8.69E-03	5.02E-04	2.07E-03	1.79E-03	7.57E-05	4.85E-03	1.69E-06	0.01798355	4.85E-03	5.02E-04	2.07E-03	1.79E-03	7.57E-05	1.24E-04	4.85E-03	1.43E-02
1029	490736.72, 3861285.12	8.71E-03	5.12E-04	2.10E-03	1.79E-03	7.60E-05	4.84E-03	1.67E-06	0.01804452	4.87E-03	5.12E-04	2.10E-03	1.79E-03	7.60E-05	1.25E-04	4.84E-03	1.43E-02
1030	490786.72, 3861285.12	8.72E-03	5.21E-04	2.13E-03	1.79E-03	7.61E-05	4.82E-03	1.65E-06	0.01805575	4.88E-03	5.21E-04	2.13E-03	1.79E-03	7.61E-05	1.25E-04	4.82E-03	1.43E-02
1031	490836.72, 3861285.12	8.72E-03	5.31E-04	2.14E-03	1.79E-03	7.61E-05	4.79E-03	1.63E-06	0.01805644	4.90E-03	5.31E-04	2.14E-03	1.79E-03	7.61E-05	1.26E-04	4.79E-03	1.44E-02
1032	490061.24, 3859716.13	5.65E-02	4.51E-03	2.24E-02	3.90E-03	1.72E-04	1.77E-02	6.76E-06	0.10522394	3.30E-02	4.51E-03	2.24E-02	3.90E-03	1.72E-04	2.49E-04	1.77E-02	8.20E-02
1033	490111.24, 3859716.13	5.95E-02	5.47E-03	2.56E-02	3.91E-03	1.71E-04	1.73E-02	6.64E-06	0.11199982	3.57E-02	5.47E-03	2.56E-02	3.91E-03	1.71E-04	2.47E-04	1.73E-02	8.84E-02
1034	490161.24, 3859716.13	6.42E-02	6.86E-03	2.97E-02	3.92E-03	1.70E-04	1.70E-02	6.52E-06	0.12176525	3.96E-02	6.86E-03	2.97E-02	3.92E-03	1.70E-04	2.44E-04	1.70E-02	9.74E-02
1035	490211.24, 3859716.13	7.15E-02	8.95E-03	3.49E-02	3.93E-03	1.70E-04	1.66E-02	6.39E-06	0.1361293	4.58E-02	8.95E-03	3.49E-02	3.93E-03	1.70E-04	2.42E-04	1.66E-02	1.11E-01
1036	490061.24, 3859766.13	5.08E-02	3.17E-03	1.77E-02	3.75E-03	1.66E-04	1.76E-02	6.20E-06	0.09314892	2.86E-02	3.17E-03	1.77E-02	3.75E-03	1.66E-04	2.45E-04	1.76E-02	7.12E-02
1037	490111.24, 3859766.13	5.17E-02	3.61E-03	1.95E-02	3.75E-03	1.65E-04	1.73E-02	6.10E-06	0.09599737	2.96E-02	3.61E-03	1.95E-02	3.75E-03	1.65E-04	2.43E-04	1.73E-02	7.41E-02
1038	490161.24, 3859766.13	5.32E-02	4.18E-03	2.16E-02	3.75E-03	1.64E-04	1.69E-02	6.00E-06	0.09983284	3.10E-02	4.18E-03	2.16E-02	3.75E-03	1.64E-04	2.40E-04	1.69E-02	7.79E-02
1039	490211.24, 3859766.13	5.55E-02	4.95E-03	2.42E-02	3.76E-03	1.64E-04	1.66E-02	5.90E-06	0.10516977	3.31E-02	4.95E-03	2.42E-02	3.76E-03	1.64E-04	2.38E-04	1.66E-02	8.30E-02
1040	490061.24, 3859816.13	4.75E-02	2.44E-03	1.46E-02	3.61E-03	1.61E-04	1.76E-02	5.70E-06	0.08586051	2.61E-02	2.44E-03	1.46E-02	3.61E-03	1.61E-04	2.41E-04	1.76E-02	6.47E-02
1041	490111.24, 3859816.13	4.77E-02	2.69E-03	1.57E-02	3.61E-03	1.60E-04	1.73E-02	5.62E-06	0.0870809	2.65E-02	2.69E-03	1.57E-02	3.61E-03	1.60E-04	2.39E-04	1.73E-02	6.62E-02
1042	490161.24, 3859816.13	4.81E-02	3.00E-03	1.70E-02	3.61E-03	1.59E-04	1.69E-02	5.54E-06	0.08879189	2.71E-02	3.00E-03	1.70E-02	3.61E-03	1.59E-04	2.37E-04	1.69E-02	6.80E-02
1043	490211.24, 3859816.13	4.88E-02	3.38E-03	1.86E-02	3.61E-03	1.58E-04	1.65E-02	5.47E-06	0.09109588	2.79E-02	3.38E-03	1.86E-02	3.61E-03	1.58E-04	2.34E-04	1.65E-02	7.04E-02
1044	490061.24, 3859866.13	4.53E-02	2.00E-03	1.24E-02	3.49E-03	1.57E-04	1.76E-02	5.27E-06	0.08094537	2.45E-02	2.00E-03	1.24E-02	3.49E-03	1.57E-04	2.37E-04	1.76E-02	6.04E-02
1045	490111.24, 3859866.13	4.51E-02	2.16E-03	1.32E-02	3.48E-03	1.56E-04	1.72E-02	5.21E-06	0.08131778	2.46E-02	2.16E-03	1.32E-02	3.48E-03	1.56E-04	2.35E-04	1.72E-02	6.11E-02
1046	490161.24, 3859866.13	4.50E-02	2.35E-03	1.41E-02	3.48E-03	1.55E-04	1.69E-02	5.15E-06	0.08202294	2.48E-02	2.35E-03	1.41E-02	3.48E-03	1.55E-04	2.33E-04	1.69E-02	6.20E-02
1047	490211.24, 3859866.13	4.51E-02	2.57E-03	1.52E-02	3.48E-03	1.54E-04	1.65E-02	5.09E-06	0.08306432	2.51E-02	2.57E-03	1.52E-02	3.48E-03	1.54E-04	2.31E-04	1.65E-02	6.33E-02
1048	490061.24, 3859916.13	4.37E-02	1.70E-03	1.07E-02	3.38E-03	1.52E-04	1.76E-02	4.90E-06	0.07728211	2.34E-02	1.70E-03	1.07E-02	3.38E-03	1.52E-04	2.32E-04	1.76E-02	5.71E-02
1049	490111.24, 3859916.13	4.33E-02	1.81E-03	1.14E-02	3.37E-03	1.51E-04	1.72E-02	4.85E-06	0.07718291	2.33E-02	1.81E-03	1.14E-02	3.37E-03	1.51E-04	2.31E-04	1.72E-02	5.74E-02
1050	490161.24, 3859916.13	4.29E-02	1.94E-03	1.21E-02	3.36E-03	1.50E-04	1.68E-02	4.80E-06	0.07725786	2.33E-02	1.94E-03	1.21E-02	3.36E-03	1.50E-04	2.29E-04	1.68E-02	5.78E-02
1051	490211.24, 3859916.13	4.27E-02	2.09E-03	1.28E-02	3.35E-03	1.49E-04	1.65E-02	4.75E-06	0.07753943	2.33E-02	2.09E-03	1.28E-02	3.35E-03	1.49E-04	2.27E-04	1.65E-02	5.84E-02
1052	490229.25, 3859815.26	4.93E-02	3.56E-03	1.93E-02	3.62E-03	1.58E-04	1.64E-02	5.45E-06	0.09241748	2.84E-02	3.56E-03	1.93E-02	3.62E-03	1.58E-04	2.34E-04	1.64E-02	7.17E-02
1053	490279.25, 3859815.26	5.07E-02	4.10E-03	2.12E-02	3.62E-03	1.57E-04	1.61E-02	5.37E-06	0.09588298	2.97E-02	4.10E-03	2.12E-02	3.62E-03	1.57E-04	2.32E-04	1.61E-02	7.51E-02
1054	490329.25, 3859815.26	5.28E-02	4.81E-03	2.35E-02	3.63E-03	1.57E-04	1.58E-02	5.28E-06	0.10060777	3.16E-02	4.81E-03	2.35E-02	3.63E-03	1.57E-04	2.30E-04	1.58E-02	7.97E-02
1055	490379.25, 3859815.26	5.61E-02	5.84E-03	2.67E-02	3.64E-03	1.56E-04	1.54E-02	5.22E-06	0.10791218	3.45E-02	5.84E-03	2.67E-02	3.64E-03	1.56E-04	2.28E-04	1.54E-02	8.65E-02
1056	490429.25, 3859815.26	6.15E-02	7.43E-03	3.14E-02	3.66E-03	1.56E-04	1.51E-02	5.17E-06	0.11923235	3.91E-02	7.43E-03	3.14E-02	3.66E-03	1.56E-04	2.27E-04	1.51E-02	9.70E-02
1057	490229.25, 3859865.26	4.53E-02	2.68E-03	1.57E-02	3.48E-03	1.53E-04	1.64E-02	5.07E-06	0.08365302	2.53E-02	2.68E-03	1.57E-02	3.48E-03	1.53E-04	2.30E-04	1.64E-02	6.39E-02
1058	490279.25, 3859865.26	4.57E-02	2.97E-03	1.69E-02	3.48E-03	1.52E-04	1.60E-02	5.00E-06	0.08521696	2.59E-02	2.97E-03	1.69E-02	3.48E-03	1.52E-04	2.28E-04	1.60E-02	6.56E-02
1059	490329.25, 3859865.26	4.64E-02	3.32E-03	1.82E-02	3.49E-03	1.52E-04	1.57E-02	4.93E-06	0.08733127	2.67E-02	3.32E-03	1.82E-02	3.49E-03	1.52E-04	2.26E-04	1.57E-02	6.78E-02
1060	490379.25, 3859865.26	4.76E-02	3.79E-03	2.00E-02	3.49E-03	1.51E-04	1.54E-02	4.87E-06	0.09038985	2.78E-02	3.79E-03	2.00E-02	3.49E-03	1.51E-04	2.24E-04	1.54E-02	7.08E-02
1061	490429.25, 3859865.26	4.94E-02	4.40E-03	2.22E-02	3.51E-03	1.51E-04	1.51E-02	4.81E-06	0.09470886	2.95E-02	4.40E-03	2.22E-02	3.51E-03	1.51E-04	2.23E-04	1.51E-02	7.50E-02
1062	490229.25, 3859915.26	4.27E-02	2.15E-03	1.32E-02	3.36E-03	1.49E-04	1.64E-02	4.73E-06	0.0778217	2.34E-02	2.15E-03	1.32E-02	3.36E-03	1.49E-04	2.27E-04	1.64E-02	5.88E-02
1063	490279.25, 3859915.26	4.26E-02	2.33E-03	1.40E-02	3.35E-03	1.48E-04	1.60E-02	4.67E-06	0.07841784	2.36E-02	2.33E-03	1.40E-02	3.35E-03	1.48E-04	2.25E-04	1.60E-02	5.96E-02
1064	490329.25, 3859915.26	4.28E-02	2.54E-03	1.49E-02	3.35E-03	1.47E-04	1.57E-02	4.62E-06	0.07939263	2.39E-02	2.54E-03	1.49E-02	3.35E-03	1.47E-04	2.23E-04	1.57E-02	6.08E-02
1065	490379.25, 3859915.26	4.31E-02	2.80E-03	1.60E-02	3.36E-03	1.46E-04	1.53E-02	4.56E-06	0.08082019	2.44E-02	2.80E-03	1.60E-02	3.36E-03	1.46E-04	2.21E-04	1.53E-02	6.23E-02
1066	490429.25, 3859915.26	4.38E-02	3.12E-03	1.73E-02	3.37E-03	1.46E-04	1.50E-02	4.50E-06	0.08274589	2.52E-02	3.12E-03	1.73E-02	3.37E-03	1.46E-04	2.19E-04	1.50E-02	6.43E-02
1067	490451.43, 3859872.59	4.93E-02	4.45E-03	2.23E-02	3.49E-03	1.50E-04	1.49E-02	4.74E-06	0.09453361	2.94E-02	4.45E-03	2.23E-02	3.49E-03	1.50E-04	2.21E-04	1.49E-02	7.49E-02
1068	490501.43, 3859872.59	5.22E-02	5.33E-03	2.53E-02	3.51E-03	1.50E-04	1.46E-02	4.70E-06	0.10104407	3.20E-02	5.33E-03	2.53E-02	3.51E-03	1.50E-04	2.20E-04	1.46E-02	8.11E-02
1069	490551.43, 3859872.59	5.68E-02	6.70E-03	2.97E-02	3.53E-03	1.50E-04	1.43E-02	4.69E-06	0.11117521	3.59E-02	6.70E-03	2.97E-02	3.53E-03	1.50E-04	2.19E-04	1.43E-02	9.05E-02
1070	490601.43, 3859872.59	6.42E-02	8.85E-03	3.58E-02	3.55E-03	1.50E-04	1.40E-02	4.68E-06	0.12648378	4.23E-02	8.85E-03	3.58E-02	3.55E-03	1.50E-04	2.19E-04	1.40E-02	1.05E-01

1071	490451.43, 3859922.59	4.36E-02	3.14E-03	1.74E-02	3.35E-03	1.45E-04	1.49E-02	4.44E-06	0.08245065	2.51E-02	3.14E-03	1.74E-02	3.35E-03	1.45E-04	2.18E-04	1.49E-02	6.42E-02
1072	490501.43, 3859922.59	4.47E-02	3.56E-03	1.90E-02	3.36E-03	1.45E-04	1.45E-02	4.40E-06	0.08535978	2.61E-02	3.56E-03	1.90E-02	3.36E-03	1.45E-04	2.16E-04	1.45E-02	6.70E-02
1073	490551.43, 3859922.59	4.65E-02	4.12E-03	2.13E-02	3.38E-03	1.45E-04	1.42E-02	4.37E-06	0.08971369	2.77E-02	4.12E-03	2.13E-02	3.38E-03	1.45E-04	2.15E-04	1.42E-02	7.11E-02
1074	490601.43, 3859922.59	4.91E-02	4.91E-03	2.44E-02	3.40E-03	1.45E-04	1.39E-02	4.36E-06	0.09590943	3.00E-02	4.91E-03	2.44E-02	3.40E-03	1.45E-04	2.14E-04	1.39E-02	7.70E-02
1075	482129.67, 3852241.07	3.20E-02	5.94E-03	3.67E-02	1.46E-03	8.46E-05	6.14E-04	1.68E-07	0.07674859	2.28E-02	5.94E-03	3.67E-02	1.46E-03	8.46E-05	1.35E-04	6.14E-04	6.77E-02
1076	482029.67, 3852291.07	5.57E-02	1.11E-02	5.96E-02	1.56E-03	8.61E-05	6.35E-04	1.65E-07	0.1287049	4.06E-02	1.11E-02	5.96E-02	1.56E-03	8.61E-05	1.35E-04	6.35E-04	1.14E-01
1077	482079.67, 3852291.07	4.41E-02	8.60E-03	4.90E-02	1.54E-03	8.65E-05	6.33E-04	1.67E-07	0.10402723	3.19E-02	8.60E-03	4.90E-02	1.54E-03	8.65E-05	1.37E-04	6.33E-04	9.20E-02
1078	482129.67, 3852291.07	3.69E-02	6.99E-03	4.16E-02	1.52E-03	8.67E-05	6.29E-04	1.69E-07	0.08773439	2.64E-02	6.99E-03	4.16E-02	1.52E-03	8.67E-05	1.38E-04	6.29E-04	7.74E-02
1079	482179.67, 3852291.07	3.18E-02	5.82E-03	3.59E-02	1.49E-03	8.67E-05	6.23E-04	1.70E-07	0.07570254	2.25E-02	5.82E-03	3.59E-02	1.49E-03	8.67E-05	1.38E-04	6.23E-04	6.66E-02
1080	482229.67, 3852291.07	2.81E-02	4.93E-03	3.09E-02	1.45E-03	8.65E-05	6.12E-04	1.71E-07	0.06607526	1.97E-02	4.93E-03	3.09E-02	1.45E-03	8.65E-05	1.38E-04	6.12E-04	5.78E-02
1081	482029.67, 3852341.07	7.53E-02	1.53E-02	7.50E-02	1.62E-03	8.75E-05	6.49E-04	1.66E-07	0.16790239	5.52E-02	1.53E-02	7.50E-02	1.62E-03	8.75E-05	1.36E-04	6.49E-04	1.48E-01
1082	482079.67, 3852341.07	5.55E-02	1.10E-02	5.91E-02	1.60E-03	8.82E-05	6.48E-04	1.67E-07	0.12784194	4.04E-02	1.10E-02	5.91E-02	1.60E-03	8.82E-05	1.38E-04	6.48E-04	1.13E-01
1083	482129.67, 3852341.07	4.40E-02	8.53E-03	4.86E-02	1.58E-03	8.86E-05	6.46E-04	1.69E-07	0.10345456	3.18E-02	8.53E-03	4.86E-02	1.58E-03	8.86E-05	1.40E-04	6.46E-04	9.14E-02
1084	482179.67, 3852341.07	3.68E-02	6.91E-03	4.12E-02	1.56E-03	8.89E-05	6.41E-04	1.71E-07	0.08712654	2.63E-02	6.91E-03	4.12E-02	1.56E-03	8.89E-05	1.41E-04	6.41E-04	7.68E-02
1085	482259.06, 3852400.14	3.48E-02	6.52E-03	3.90E-02	1.60E-03	9.09E-05	6.64E-04	1.75E-07	0.08270262	2.49E-02	6.52E-03	3.90E-02	1.60E-03	9.09E-05	1.44E-04	6.64E-04	7.29E-02
1086	482309.06, 3852400.14	3.03E-02	5.39E-03	3.33E-02	1.56E-03	9.14E-05	6.50E-04	1.75E-07	0.07133526	2.13E-02	5.39E-03	3.33E-02	1.56E-03	9.14E-05	1.44E-04	6.50E-04	6.25E-02
1087	482209.06, 3852450.14	5.00E-02	9.76E-03	5.27E-02	1.68E-03	9.27E-05	6.82E-04	1.74E-07	0.11486592	3.62E-02	9.76E-03	5.27E-02	1.68E-03	9.27E-05	1.45E-04	6.82E-04	1.01E-01
1088	482259.06, 3852450.14	4.08E-02	7.78E-03	4.47E-02	1.66E-03	9.31E-05	6.80E-04	1.75E-07	0.09577655	2.93E-02	7.78E-03	4.47E-02	1.66E-03	9.31E-05	1.46E-04	6.80E-04	8.44E-02
1089	482309.06, 3852450.14	3.47E-02	6.36E-03	3.84E-02	1.64E-03	9.37E-05	6.70E-04	1.76E-07	0.08177554	2.46E-02	6.36E-03	3.84E-02	1.64E-03	9.37E-05	1.47E-04	6.70E-04	7.19E-02
1090	482209.06, 3852500.14	6.49E-02	1.28E-02	6.38E-02	1.74E-03	9.47E-05	6.97E-04	1.74E-07	0.14410554	4.72E-02	1.28E-02	6.38E-02	1.74E-03	9.47E-05	1.46E-04	6.97E-04	1.27E-01
1091	482259.06, 3852500.14	4.98E-02	9.66E-03	5.28E-02	1.72E-03	9.53E-05	6.95E-04	1.75E-07	0.11482304	3.60E-02	9.66E-03	5.28E-02	1.72E-03	9.53E-05	1.48E-04	6.95E-04	1.01E-01
1092	482309.06, 3852500.14	4.07E-02	7.65E-03	4.43E-02	1.70E-03	9.59E-05	6.90E-04	1.77E-07	0.09511319	2.91E-02	7.65E-03	4.43E-02	1.70E-03	9.59E-05	1.50E-04	6.90E-04	8.37E-02
1093	482283.91, 3852513.62	4.74E-02	9.11E-03	5.06E-02	1.73E-03	9.61E-05	6.98E-04	1.76E-07	0.10959203	3.41E-02	9.11E-03	5.06E-02	1.73E-03	9.61E-05	1.50E-04	6.98E-04	9.65E-02
1094	482333.91, 3852513.62	3.92E-02	7.31E-03	4.26E-02	1.71E-03	9.66E-05	6.93E-04	1.78E-07	0.09163187	2.80E-02	7.31E-03	4.26E-02	1.71E-03	9.66E-05	1.51E-04	6.93E-04	8.06E-02
1095	482283.91, 3852563.62	6.04E-02	1.18E-02	6.06E-02	1.79E-03	9.81E-05	7.15E-04	1.77E-07	0.13537063	4.38E-02	1.18E-02	6.06E-02	1.79E-03	9.81E-05	1.51E-04	7.15E-04	1.19E-01
1096	482333.91, 3852563.62	4.74E-02	9.06E-03	5.01E-02	1.78E-03	9.86E-05	7.14E-04	1.79E-07	0.10915881	3.41E-02	9.06E-03	5.01E-02	1.78E-03	9.86E-05	1.53E-04	7.14E-04	9.60E-02
1097	482383.91, 3852563.62	3.93E-02	7.32E-03	4.25E-02	1.76E-03	9.89E-05	7.12E-04	1.80E-07	0.09169828	2.81E-02	7.32E-03	4.25E-02	1.76E-03	9.89E-05	1.54E-04	7.12E-04	8.06E-02
1098	482283.91, 3852613.62	8.21E-02	1.64E-02	7.80E-02	1.86E-03	1.01E-04	7.28E-04	1.77E-07	0.17915301	5.99E-02	1.64E-02	7.80E-02	1.86E-03	1.01E-04	1.52E-04	7.28E-04	1.57E-01
1099	482333.91, 3852613.62	6.02E-02	1.17E-02	6.05E-02	1.84E-03	1.01E-04	7.30E-04	1.79E-07	0.135031	4.35E-02	1.17E-02	6.05E-02	1.84E-03	1.01E-04	1.54E-04	7.30E-04	1.19E-01
1100	482383.91, 3852613.62	4.74E-02	9.01E-03	4.96E-02	1.83E-03	1.01E-04	7.32E-04	1.81E-07	0.10864658	3.40E-02	9.01E-03	4.96E-02	1.83E-03	1.01E-04	1.56E-04	7.32E-04	9.54E-02
1101	482602.38, 3852600.87	2.56E-02	4.09E-03	2.58E-02	1.74E-03	1.03E-04	6.88E-04	1.87E-07	0.05798678	1.74E-02	4.09E-03	2.58E-02	1.74E-03	1.03E-04	1.56E-04	6.88E-04	5.00E-02
1102	482652.38, 3852600.87	2.36E-02	3.66E-03	2.35E-02	1.72E-03	1.03E-04	6.80E-04	1.89E-07	0.05329558	1.59E-02	3.66E-03	2.35E-02	1.72E-03	1.03E-04	1.54E-04	6.80E-04	4.58E-02
1103	482702.38, 3852600.87	2.19E-02	3.20E-03	2.07E-02	1.68E-03	1.03E-04	6.58E-04	1.89E-07	0.04820151	1.45E-02	3.20E-03	2.07E-02	1.68E-03	1.03E-04	1.52E-04	6.58E-04	4.10E-02
1104	482552.38, 3852650.87	3.14E-02	5.39E-03	3.32E-02	1.84E-03	1.06E-04	7.23E-04	1.86E-07	0.07270484	2.19E-02	5.39E-03	3.32E-02	1.84E-03	1.06E-04	1.61E-04	7.23E-04	6.33E-02
1105	482602.38, 3852650.87	2.82E-02	4.65E-03	2.88E-02	1.82E-03	1.06E-04	7.15E-04	1.88E-07	0.06425285	1.94E-02	4.65E-03	2.88E-02	1.82E-03	1.06E-04	1.61E-04	7.15E-04	5.56E-02
1106	482652.38, 3852650.87	2.57E-02	4.11E-03	2.60E-02	1.81E-03	1.07E-04	7.08E-04	1.90E-07	0.05851314	1.75E-02	4.11E-03	2.60E-02	1.81E-03	1.07E-04	1.59E-04	7.08E-04	5.05E-02
1107	482702.38, 3852650.87	2.38E-02	3.68E-03	2.38E-02	1.79E-03	1.07E-04	6.99E-04	1.92E-07	0.05386426	1.60E-02	3.68E-03	2.38E-02	1.79E-03	1.07E-04	1.57E-04	6.99E-04	4.63E-02
1108	482552.38, 3852700.87	3.60E-02	6.34E-03	3.76E-02	1.91E-03	1.09E-04	7.46E-04	1.87E-07	0.08267879	2.52E-02	6.34E-03	3.76E-02	1.91E-03	1.09E-04	1.65E-04	7.46E-04	7.21E-02
1109	482602.38, 3852700.87	3.17E-02	5.42E-03	3.32E-02	1.91E-03	1.09E-04	7.41E-04	1.89E-07	0.07307268	2.20E-02	5.42E-03	3.32E-02	1.91E-03	1.09E-04	1.65E-04	7.41E-04	6.35E-02
1110	482652.38, 3852700.87	2.86E-02	4.80E-03	3.00E-02	1.91E-03	1.09E-04	7.43E-04	1.92E-07	0.06621397	1.98E-02	4.80E-03	3.00E-02	1.91E-03	1.09E-04	1.63E-04	7.43E-04	5.75E-02
1111	482702.38, 3852700.87	2.60E-02	4.19E-03	2.70E-02	1.90E-03	1.10E-04	7.33E-04	1.93E-07	0.05995501	1.77E-02	4.19E-03	2.70E-02	1.90E-03	1.10E-04	1.62E-04	7.33E-04	5.18E-02
1112	482452.38, 3852750.87	6.67E-02	1.27E-02	6.50E-02	2.01E-03	1.10E-04	7.73E-04	1.84E-07	0.14726579	4.79E-02	1.27E-02	6.50E-02	2.01E-03	1.10E-04	1.64E-04	7.73E-04	1.29E-01
1113	482521.29, 3852749.74	4.72E-02	8.67E-03	4.83E-02	1.99E-03	1.11E-04	7.71E-04	1.86E-07	0.1070424	3.35E-02	8.67E-03	4.83E-02	1.99E-03	1.11E-04	1.67E-04	7.71E-04	9.35E-02
1114	482571.29, 3852749.74	3.96E-02	7.05E-03	4.09E-02	1.99E-03	1.11E-04	7.67E-04	1.88E-07	0.09039109	2.78E-02	7.05E-03	4.09E-02	1.99E-03	1.11E-04	1.68E-04	7.67E-04	7.88E-02
1115	482521.29, 3852799.74	5.97E-02	1.12E-02	5.84E-02	2.07E-03	1.13E-04	7.91E-04	1.87E-07	0.13224879	4.26E-02	1.12E-02	5.84E-02	2.07E-03	1.13E-04	1.69E-04	7.91E-04	1.15E-01
1116	482571.29, 3852799.74	4.75E-02	8.64E-03	4.79E-02	2.07E-03	1.14E-04	7.89E-04	1.89E-07	0.10704984	3.36E-02	8.64E-03	4.79E-02	2.07E-03	1.14E-04	1.71E-04	7.89E-04	9.33E-02
1117	482621.29, 3852799.74	3.99E-02	7.01E-03	4.07E-02	2.06E-03	1.15E-04	7.86E-04	1.91E-07	0.0904859	2.79E-02	7.01E-03	4.07E-02	2.06E-03	1.15E-04	1.72E-04	7.86E-04	7.87E-02
1118	482571.29, 3852849.74	6.01E-02	1.10E-02	5.77E-02	2.15E-03	1.17E-04	8.07E-04	1.89E-07	0.13193537	4.27E-02	1.10E-02	5.77E-02	2.15E-03	1.17E-04	1.73E-04	8.07E-04	1.15E-01
1119	482621.29, 3852849.74	4.79E-02	8.49E-03	4.73E-02	2.15E-03	1.19E-04	8.03E-04	1.91E-07	0.10681245	3.37E-02	8.49E-03	4.73E-02	2.15E-03	1.19E-04	1.76E-04	8.03E-04	9.27E-02
1120	482577.42, 3852901.55	7.95E-02	1.45E-02	7.09E-02	2.24E-03	1.21E-04	8.23E-04	1.89E-07	0.16814912	5.64E-02	1.45E-02	7.09E-02	2.24E-03	1.21E-04	1.76E-04	8.23E-04	1.45E-01
1121	482627.42, 3852901.55	5.94E-02	1.05E-02	5.58E-02	2.24E-03	1.23E-04	8.20E-04	1.91E-07	0.12886955	4.17E-02	1.05E-02	5.58E-02	2.24E-03	1.23E-04	1.79E-04	8.20E-04	1.11E-01
1122	482629.96, 3852955.85	8.11E-02	1.42E-02	6.91E-02	2.34E-03	1.27E-04	8.40E-04	1.91E-07	0.1677676	5.68E-02	1.42E-02	6.91E-02	2.34E-03	1.27E-04	1.81E-04	8.40E-04	1.44E-01
1123	482679.96, 3852955.85	6.05E-02	1.02E-02	5.40E-02	2.34E-03	1.29E-04	8.37E-04	1.93E-07	0.12790833	4.18E-02	1.02E-02	5.40E-02	2.34E-03	1.29E-04	1.84E-04	8.37E-04	1.09E-01
1124	482781.63, 3853034.48	5.07E-02	7.56E-03	4.37E-02	2.49E-03	1.41E-04	8.58E-04	1.97E-07	0.10546816	3.38E-02	7.56E-03	4.37E-02	2.49E-03	1.41E-04	1.94E-04	8.58E-04	8.88E-02

1125	482831.63, 3853034.48	4.21E-02	6.09E-03	3.65E-02	2.46E-03	1.41E-04	8.51E-04	1.99E-07	0.08815608	2.78E-02	6.09E-03	3.65E-02	2.46E-03	1.41E-04	1.96E-04	8.51E-04	7.41E-02
1126	482881.63, 3853034.48	3.63E-02	5.06E-03	3.11E-02	2.43E-03	1.41E-04	8.42E-04	2.01E-07	0.07587932	2.38E-02	5.06E-03	3.11E-02	2.43E-03	1.41E-04	1.97E-04	8.42E-04	6.35E-02
1127	482781.63, 3853084.48	5.82E-02	8.55E-03	4.81E-02	2.62E-03	1.46E-04	8.80E-04	1.97E-07	0.11849472	3.86E-02	8.55E-03	4.81E-02	2.62E-03	1.46E-04	1.97E-04	8.80E-04	9.92E-02
1128	482831.63, 3853084.48	4.70E-02	6.71E-03	3.95E-02	2.59E-03	1.47E-04	8.74E-04	1.99E-07	0.09682851	3.10E-02	6.71E-03	3.95E-02	2.59E-03	1.47E-04	2.00E-04	8.74E-04	8.10E-02
1129	482881.63, 3853084.48	3.99E-02	5.53E-03	3.35E-02	2.55E-03	1.47E-04	8.67E-04	2.01E-07	0.0825835	2.61E-02	5.53E-03	3.35E-02	2.55E-03	1.47E-04	2.02E-04	8.67E-04	6.90E-02
1130	482781.63, 3853134.48	6.74E-02	9.96E-03	5.38E-02	2.77E-03	1.52E-04	9.03E-04	1.98E-07	0.13500541	4.49E-02	9.96E-03	5.38E-02	2.77E-03	1.52E-04	1.98E-04	9.03E-04	1.13E-01
1131	482831.63, 3853134.48	5.27E-02	7.54E-03	4.31E-02	2.74E-03	1.53E-04	8.98E-04	2.00E-07	0.10717734	3.48E-02	7.54E-03	4.31E-02	2.74E-03	1.53E-04	2.03E-04	8.98E-04	8.94E-02
1132	482881.63, 3853134.48	4.39E-02	6.10E-03	3.63E-02	2.70E-03	1.54E-04	8.95E-04	2.02E-07	0.09005466	2.87E-02	6.10E-03	3.63E-02	2.70E-03	1.54E-04	2.05E-04	8.95E-04	7.51E-02
1133	482831.63, 3853184.48	6.01E-02	8.65E-03	4.78E-02	2.90E-03	1.60E-04	9.22E-04	2.01E-07	0.12052022	3.97E-02	8.65E-03	4.78E-02	2.90E-03	1.60E-04	2.04E-04	9.22E-04	1.00E-01
1134	482881.63, 3853184.48	4.87E-02	6.78E-03	3.93E-02	2.86E-03	1.61E-04	9.21E-04	2.03E-07	0.09870147	3.19E-02	6.78E-03	3.93E-02	2.86E-03	1.61E-04	2.08E-04	9.21E-04	8.21E-02
1135	484154.84, 3854250.98	5.54E-02	1.90E-03	1.93E-03	9.61E-03	5.61E-04	1.16E-03	2.38E-07	0.07060342	2.82E-02	1.90E-03	1.93E-03	9.61E-03	5.61E-04	4.13E-04	1.16E-03	4.38E-02
1136	484204.84, 3854250.98	5.35E-02	1.81E-03	1.91E-03	9.33E-03	5.45E-04	1.15E-03	2.40E-07	0.06829769	2.73E-02	1.81E-03	1.91E-03	9.33E-03	5.45E-04	3.97E-04	1.15E-03	4.24E-02
1137	484154.84, 3854300.98	6.02E-02	2.03E-03	1.82E-03	9.96E-03	5.82E-04	1.19E-03	2.33E-07	0.07582035	3.06E-02	2.03E-03	1.82E-03	9.96E-03	5.82E-04	4.21E-04	1.19E-03	4.66E-02
1138	484204.84, 3854300.98	5.79E-02	1.94E-03	1.82E-03	9.80E-03	5.73E-04	1.19E-03	2.36E-07	0.07318805	2.94E-02	1.94E-03	1.82E-03	9.80E-03	5.73E-04	4.11E-04	1.19E-03	4.51E-02
1139	484074.19, 3854519.8	1.06E-01	4.45E-03	1.53E-03	1.48E-02	9.39E-04	1.54E-03	2.30E-07	0.12949875	5.31E-02	4.45E-03	1.53E-03	1.48E-02	9.39E-04	4.88E-04	1.54E-03	7.68E-02
1140	484124.19, 3854519.8	9.83E-02	3.82E-03	1.51E-03	1.40E-02	8.93E-04	1.52E-03	2.29E-07	0.12004731	4.92E-02	3.82E-03	1.51E-03	1.40E-02	8.93E-04	4.83E-04	1.52E-03	7.14E-02
1141	484074.19, 3854569.8	1.26E-01	5.99E-03	1.47E-03	1.64E-02	1.12E-03	1.65E-03	2.32E-07	0.15280335	6.28E-02	5.99E-03	1.47E-03	1.64E-02	1.12E-03	4.99E-04	1.65E-03	9.00E-02
1142	484124.19, 3854569.8	1.14E-01	4.84E-03	1.45E-03	1.54E-02	1.05E-03	1.62E-03	2.29E-07	0.13875137	5.71E-02	4.84E-03	1.45E-03	1.54E-02	1.05E-03	4.87E-04	1.62E-03	8.19E-02
1143	485205.11, 3855188.89	1.12E-01	3.62E-03	1.22E-03	2.68E-02	4.29E-03	1.10E-02	3.55E-07	0.15850059	5.56E-02	3.62E-03	1.22E-03	2.68E-02	4.29E-03	7.27E-03	1.10E-02	1.10E-01
1144	485255.11, 3855188.89	1.05E-01	3.16E-03	1.21E-03	2.53E-02	3.84E-03	9.98E-03	3.55E-07	0.14846803	5.23E-02	3.16E-03	1.21E-03	2.53E-02	3.84E-03	6.44E-03	9.98E-03	1.02E-01
1145	485205.11, 3855238.89	1.24E-01	4.12E-03	1.20E-03	2.79E-02	4.70E-03	1.27E-02	3.54E-07	0.17427182	6.15E-02	4.12E-03	1.20E-03	2.79E-02	4.70E-03	8.74E-03	1.27E-02	1.21E-01
1146	485255.11, 3855238.89	1.14E-01	3.56E-03	1.20E-03	2.69E-02	4.25E-03	1.18E-02	3.59E-07	0.16189211	5.68E-02	3.56E-03	1.20E-03	2.69E-02	4.25E-03	7.95E-03	1.18E-02	1.13E-01
1147	485205.11, 3855288.89	1.38E-01	5.23E-03	1.21E-03	3.11E-02	5.73E-03	1.63E-02	3.68E-07	0.1974427	6.84E-02	5.23E-03	1.21E-03	3.11E-02	5.73E-03	1.17E-02	1.63E-02	1.40E-01
1148	485255.11, 3855288.89	1.25E-01	4.28E-03	1.20E-03	2.96E-02	4.97E-03	1.46E-02	3.70E-07	0.17943659	6.21E-02	4.28E-03	1.20E-03	2.96E-02	4.97E-03	1.02E-02	1.46E-02	1.27E-01
1149	485255.11, 3855338.89	1.40E-01	5.36E-03	1.19E-03	3.26E-02	5.94E-03	1.82E-02	3.81E-07	0.20373169	6.98E-02	5.36E-03	1.19E-03	3.26E-02	5.94E-03	1.32E-02	1.82E-02	1.46E-01
1150	485305.11, 3855338.89	1.27E-01	4.38E-03	1.18E-03	3.08E-02	5.13E-03	1.61E-02	3.83E-07	0.18415995	6.30E-02	4.38E-03	1.18E-03	3.08E-02	5.13E-03	1.14E-02	1.61E-02	1.32E-01
1151	485852.5, 3855635.28	9.82E-02	2.54E-03	1.07E-03	2.97E-02	3.56E-03	1.55E-02	4.86E-07	0.15048115	4.91E-02	2.54E-03	1.07E-03	2.97E-02	3.56E-03	1.00E-02	1.55E-02	1.11E-01
1152	485902.5, 3855635.28	9.41E-02	2.33E-03	1.06E-03	2.83E-02	3.28E-03	1.44E-02	4.84E-07	0.14336255	4.70E-02	2.33E-03	1.06E-03	2.83E-02	3.28E-03	9.17E-03	1.44E-02	1.06E-01
1153	485852.5, 3855685.28	1.04E-01	2.79E-03	1.06E-03	3.12E-02	3.89E-03	1.70E-02	4.94E-07	0.16043066	5.22E-02	2.79E-03	1.06E-03	3.12E-02	3.89E-03	1.12E-02	1.70E-02	1.19E-01
1154	485902.5, 3855685.28	9.96E-02	2.52E-03	1.05E-03	2.97E-02	3.55E-03	1.57E-02	4.94E-07	0.15210977	4.98E-02	2.52E-03	1.05E-03	2.97E-02	3.55E-03	1.02E-02	1.57E-02	1.12E-01
1155	485852.5, 3855735.28	1.12E-01	3.09E-03	1.05E-03	3.29E-02	4.29E-03	1.88E-02	5.00E-07	0.17221555	5.60E-02	3.09E-03	1.05E-03	3.29E-02	4.29E-03	1.26E-02	1.88E-02	1.29E-01
1156	485902.5, 3855735.28	1.06E-01	2.78E-03	1.05E-03	3.15E-02	3.91E-03	1.74E-02	5.05E-07	0.16248559	5.29E-02	2.78E-03	1.05E-03	3.15E-02	3.91E-03	1.14E-02	1.74E-02	1.21E-01
1157	485852.5, 3855785.28	1.22E-01	3.52E-03	1.05E-03	3.50E-02	4.89E-03	2.12E-02	5.08E-07	0.18728155	6.07E-02	3.52E-03	1.05E-03	3.50E-02	4.89E-03	1.44E-02	2.12E-02	1.41E-01
1158	485902.5, 3855785.28	1.14E-01	3.08E-03	1.04E-03	3.30E-02	4.31E-03	1.91E-02	5.10E-07	0.1743659	5.68E-02	3.08E-03	1.04E-03	3.30E-02	4.31E-03	1.27E-02	1.91E-02	1.30E-01
1159	486809.46, 3856465.28	1.01E-01	2.37E-03	9.05E-04	3.32E-02	3.82E-03	1.94E-02	7.75E-07	0.16050327	5.05E-02	2.37E-03	9.05E-04	3.32E-02	3.82E-03	1.13E-02	1.94E-02	1.21E-01
1160	486859.46, 3856465.28	9.62E-02	2.22E-03	9.04E-04	3.25E-02	3.57E-03	1.86E-02	7.81E-07	0.15399235	4.82E-02	2.22E-03	9.04E-04	3.25E-02	3.57E-03	1.07E-02	1.86E-02	1.17E-01
1161	486909.46, 3856465.28	9.21E-02	2.10E-03	9.01E-04	3.18E-02	3.36E-03	1.79E-02	7.82E-07	0.14812905	4.62E-02	2.10E-03	9.01E-04	3.18E-02	3.36E-03	1.01E-02	1.79E-02	1.12E-01
1162	486809.46, 3856515.28	1.07E-01	2.57E-03	9.06E-04	3.48E-02	4.18E-03	2.08E-02	7.99E-07	0.16992636	5.34E-02	2.57E-03	9.06E-04	3.48E-02	4.18E-03	1.24E-02	2.08E-02	1.29E-01
1163	486859.46, 3856515.28	1.01E-01	2.39E-03	9.06E-04	3.41E-02	3.88E-03	1.99E-02	8.11E-07	0.16238232	5.06E-02	2.39E-03	9.06E-04	3.41E-02	3.88E-03	1.16E-02	1.99E-02	1.23E-01
1164	486909.46, 3856515.28	9.65E-02	2.24E-03	9.04E-04	3.34E-02	3.62E-03	1.91E-02	8.16E-07	0.15571793	4.83E-02	2.24E-03	9.04E-04	3.34E-02	3.62E-03	1.09E-02	1.91E-02	1.18E-01
1165	486980.94, 3856357.95	8.03E-02	1.73E-03	8.97E-04	2.82E-02	2.72E-03	1.51E-02	7.15E-07	0.12899934	4.03E-02	1.73E-03	8.97E-04	2.82E-02	2.72E-03	8.13E-03	1.51E-02	9.71E-02
1166	487030.94, 3856357.95	7.78E-02	1.66E-03	8.96E-04	2.77E-02	2.61E-03	1.47E-02	7.16E-07	0.12536996	3.91E-02	1.66E-03	8.96E-04	2.77E-02	2.61E-03	7.79E-03	1.47E-02	9.44E-02
1167	486980.94, 3856407.95	8.32E-02	1.83E-03	8.97E-04	2.95E-02	2.89E-03	1.60E-02	7.47E-07	0.13429665	4.18E-02	1.83E-03	8.97E-04	2.95E-02	2.89E-03	8.67E-03	1.60E-02	1.02E-01
1168	487030.94, 3856407.95	8.05E-02	1.75E-03	8.96E-04	2.89E-02	2.76E-03	1.55E-02	7.46E-07	0.13026852	4.04E-02	1.75E-03	8.96E-04	2.89E-02	2.76E-03	8.28E-03	1.55E-02	9.85E-02
1169	487447.18, 3856437.45	6.52E-02	1.35E-03	9.00E-04	2.55E-02	2.06E-03	1.29E-02	8.10E-07	0.10786996	3.29E-02	1.35E-03	9.00E-04	2.55E-02	2.06E-03	6.20E-03	1.29E-02	8.18E-02
1170	487497.18, 3856437.45	6.37E-02	1.32E-03	9.02E-04	2.51E-02	1.99E-03	1.26E-02	8.18E-07	0.10559566	3.21E-02	1.32E-03	9.02E-04	2.51E-02	1.99E-03	5.99E-03	1.26E-02	8.00E-02
1171	487547.18, 3856437.45	6.22E-02	1.29E-03	9.04E-04	2.47E-02	1.93E-03	1.24E-02	8.28E-07	0.10344692	3.14E-02	1.29E-03	9.04E-04	2.47E-02	1.93E-03	5.80E-03	1.24E-02	7.84E-02
1172	487447.18, 3856487.45	6.69E-02	1.40E-03	8.99E-04	2.65E-02	2.14E-03	1.34E-02	8.39E-07	0.11122907	3.38E-02	1.40E-03	8.99E-04	2.65E-02	2.14E-03	6.47E-03	1.34E-02	8.45E-02
1173	487497.18, 3856487.45	6.54E-02	1.36E-03	9.00E-04	2.60E-02	2.07E-03	1.31E-02	8.48E-07	0.10879191	3.30E-02	1.36E-03	9.00E-04	2.60E-02	2.07E-03	6.24E-03	1.31E-02	8.26E-02
1174	487547.18, 3856487.45	6.39E-02	1.33E-03	9.03E-04	2.56E-02	2.00E-03	1.28E-02	8.58E-07	0.10653762	3.22E-02	1.33E-03	9.03E-04	2.56E-02	2.00E-03	6.05E-03	1.28E-02	8.09E-02
1175	487447.18, 3856537.45	6.89E-02	1.45E-03	8.98E-04	2.74E-02	2.23E-03	1.39E-02	8.70E-07	0.11487959	3.48E-02	1.45E-03	8.98E-04	2.74E-02	2.23E-03	6.78E-03	1.39E-02	8.75E-02
1176	487497.18, 3856537.45	6.73E-02	1.41E-03	8.99E-04	2.69E-02	2.15E-03	1.36E-02	8.79E-07	0.11224917	3.39E-02	1.41E-03	8.99E-04	2.69E-02	2.15E-03	6.52E-03	1.36E-02	8.54E-02
1177	487547.18, 3856537.45	6.57E-02	1.37E-03	9.02E-04	2.65E-02	2.08E-03	1.33E-02	8.90E-07	0.1098471	3.31E-02	1.37E-03	9.02E-04	2.65E-02	2.08E-03	6.29E-03	1.33E-02	8.36E-02
1178	489285.89, 3858826.54	8.95E-02	4.50E-03	1.18E-02	1.21E-02	7.81E-04	2.18E-02	1.12E-04	0.14059712	4.90E-02	4.50E-03	1.18E-02	1.21E-02	7.81E-04	4.00E-04	2.18E-02	1.00E-01

1179	489335.89, 3858826.54	8.44E-02	4.16E-03	1.14E-02	1.18E-02	7.29E-04	2.12E-02	8.42E-05	0.1338536	4.61E-02	4.16E-03	1.14E-02	1.18E-02	7.29E-04	3.98E-04	2.12E-02	9.58E-02
1180	489385.89, 3858826.54	8.04E-02	3.86E-03	1.11E-02	1.15E-02	6.86E-04	2.06E-02	6.79E-05	0.12821312	4.38E-02	3.86E-03	1.11E-02	1.15E-02	6.86E-04	3.97E-04	2.06E-02	9.20E-02
1181	489435.89, 3858826.54	7.69E-02	3.61E-03	1.07E-02	1.13E-02	6.49E-04	2.01E-02	5.72E-05	0.12336256	4.19E-02	3.61E-03	1.07E-02	1.13E-02	6.49E-04	3.97E-04	2.01E-02	8.86E-02
1182	489485.89, 3858826.54	7.39E-02	3.40E-03	1.04E-02	1.11E-02	6.18E-04	1.96E-02	4.95E-05	0.11902712	4.01E-02	3.40E-03	1.04E-02	1.11E-02	6.18E-04	3.96E-04	1.96E-02	8.56E-02
1183	489535.89, 3858826.54	7.12E-02	3.21E-03	1.01E-02	1.08E-02	5.92E-04	1.91E-02	4.38E-05	0.1150914	3.86E-02	3.21E-03	1.01E-02	1.08E-02	5.92E-04	3.97E-04	1.91E-02	8.28E-02
1184	489585.89, 3858826.54	6.88E-02	3.04E-03	9.76E-03	1.07E-02	5.69E-04	1.87E-02	3.94E-05	0.11151496	3.72E-02	3.04E-03	9.76E-03	1.07E-02	5.69E-04	3.97E-04	1.87E-02	8.03E-02
1185	489635.89, 3858826.54	6.65E-02	2.89E-03	9.46E-03	1.05E-02	5.49E-04	1.82E-02	3.59E-05	0.10819374	3.60E-02	2.89E-03	9.46E-03	1.05E-02	5.49E-04	3.98E-04	1.82E-02	7.80E-02
1186	489685.89, 3858826.54	6.45E-02	2.76E-03	9.18E-03	1.03E-02	5.31E-04	1.78E-02	3.30E-05	0.10510471	3.48E-02	2.76E-03	9.18E-03	1.03E-02	5.31E-04	3.99E-04	1.78E-02	7.58E-02
1187	489735.89, 3858826.54	6.26E-02	2.64E-03	8.92E-03	1.02E-02	5.14E-04	1.74E-02	3.06E-05	0.10224048	3.37E-02	2.64E-03	8.92E-03	1.02E-02	5.14E-04	4.01E-04	1.74E-02	7.38E-02
1188	489785.89, 3858826.54	6.08E-02	2.53E-03	8.68E-03	1.00E-02	5.00E-04	1.70E-02	2.87E-05	0.09961053	3.28E-02	2.53E-03	8.68E-03	1.00E-02	5.00E-04	4.03E-04	1.70E-02	7.19E-02
1189	489835.89, 3858826.54	5.92E-02	2.42E-03	8.44E-03	9.86E-03	4.86E-04	1.66E-02	2.70E-05	0.09710332	3.18E-02	2.42E-03	8.44E-03	9.86E-03	4.86E-04	4.05E-04	1.66E-02	7.01E-02
1190	489885.89, 3858826.54	5.77E-02	2.33E-03	8.24E-03	9.73E-03	4.74E-04	1.63E-02	2.55E-05	0.09477658	3.10E-02	2.33E-03	8.24E-03	9.73E-03	4.74E-04	4.07E-04	1.63E-02	6.85E-02
1191	489935.89, 3858826.54	5.62E-02	2.25E-03	8.04E-03	9.59E-03	4.63E-04	1.60E-02	2.43E-05	0.0925492	3.02E-02	2.25E-03	8.04E-03	9.59E-03	4.63E-04	4.09E-04	1.60E-02	6.69E-02
1192	489985.89, 3858826.54	5.48E-02	2.17E-03	7.82E-03	9.46E-03	4.52E-04	1.56E-02	2.32E-05	0.09041439	2.94E-02	2.17E-03	7.82E-03	9.46E-03	4.52E-04	4.11E-04	1.56E-02	6.54E-02
1193	490035.89, 3858826.54	5.36E-02	2.09E-03	7.53E-03	9.34E-03	4.43E-04	1.53E-02	2.22E-05	0.08828723	2.87E-02	2.09E-03	7.53E-03	9.34E-03	4.43E-04	4.14E-04	1.53E-02	6.38E-02
1194	489285.89, 3858876.54	9.50E-02	5.22E-03	1.68E-02	1.13E-02	7.14E-04	2.33E-02	1.21E-04	0.15246829	5.25E-02	5.22E-03	1.68E-02	1.13E-02	7.14E-04	3.89E-04	2.33E-02	1.10E-01
1195	489335.89, 3858876.54	8.89E-02	4.76E-03	1.57E-02	1.11E-02	6.70E-04	2.26E-02	8.72E-05	0.14380617	4.90E-02	4.76E-03	1.57E-02	1.11E-02	6.70E-04	3.87E-04	2.26E-02	1.04E-01
1196	489385.89, 3858876.54	8.42E-02	4.38E-03	1.49E-02	1.08E-02	6.34E-04	2.19E-02	6.81E-05	0.13680401	4.63E-02	4.38E-03	1.49E-02	1.08E-02	6.34E-04	3.86E-04	2.19E-02	9.92E-02
1197	489435.89, 3858876.54	8.03E-02	4.06E-03	1.41E-02	1.06E-02	6.03E-04	2.13E-02	5.62E-05	0.13094027	4.40E-02	4.06E-03	1.41E-02	1.06E-02	6.03E-04	3.84E-04	2.13E-02	9.50E-02
1198	489485.89, 3858876.54	7.69E-02	3.78E-03	1.34E-02	1.04E-02	5.76E-04	2.07E-02	4.81E-05	0.12575893	4.21E-02	3.78E-03	1.34E-02	1.04E-02	5.76E-04	3.83E-04	2.07E-02	9.13E-02
1199	489535.89, 3858876.54	7.39E-02	3.55E-03	1.27E-02	1.02E-02	5.53E-04	2.01E-02	4.22E-05	0.12109027	4.03E-02	3.55E-03	1.27E-02	1.02E-02	5.53E-04	3.83E-04	2.01E-02	8.79E-02
1200	489585.89, 3858876.54	7.12E-02	3.34E-03	1.21E-02	1.01E-02	5.33E-04	1.96E-02	3.78E-05	0.11682942	3.88E-02	3.34E-03	1.21E-02	1.01E-02	5.33E-04	3.83E-04	1.96E-02	8.48E-02
1201	489635.89, 3858876.54	6.87E-02	3.16E-03	1.16E-02	9.92E-03	5.15E-04	1.91E-02	3.44E-05	0.11298576	3.73E-02	3.16E-03	1.16E-02	9.92E-03	5.15E-04	3.83E-04	1.91E-02	8.20E-02
1202	489685.89, 3858876.54	6.64E-02	3.00E-03	1.12E-02	9.78E-03	5.00E-04	1.86E-02	3.16E-05	0.10945031	3.60E-02	3.00E-03	1.12E-02	9.78E-03	5.00E-04	3.84E-04	1.86E-02	7.94E-02
1203	489735.89, 3858876.54	6.43E-02	2.85E-03	1.07E-02	9.64E-03	4.85E-04	1.81E-02	2.93E-05	0.10617037	3.49E-02	2.85E-03	1.07E-02	9.64E-03	4.85E-04	3.85E-04	1.81E-02	7.71E-02
1204	489785.89, 3858876.54	6.24E-02	2.73E-03	1.04E-02	9.51E-03	4.72E-04	1.77E-02	2.74E-05	0.10317166	3.38E-02	2.73E-03	1.04E-02	9.51E-03	4.72E-04	3.86E-04	1.77E-02	7.49E-02
1205	489835.89, 3858876.54	6.06E-02	2.61E-03	1.00E-02	9.38E-03	4.61E-04	1.72E-02	2.57E-05	0.10035902	3.28E-02	2.61E-03	1.00E-02	9.38E-03	4.61E-04	3.88E-04	1.72E-02	7.29E-02
1206	489885.89, 3858876.54	5.89E-02	2.51E-03	9.70E-03	9.26E-03	4.50E-04	1.69E-02	2.43E-05	0.0977722	3.18E-02	2.51E-03	9.70E-03	9.26E-03	4.50E-04	3.89E-04	1.69E-02	7.10E-02
1207	489935.89, 3858876.54	5.74E-02	2.41E-03	9.38E-03	9.15E-03	4.40E-04	1.65E-02	2.31E-05	0.09528091	3.09E-02	2.41E-03	9.38E-03	9.15E-03	4.40E-04	3.92E-04	1.65E-02	6.92E-02
1208	489985.89, 3858876.54	5.59E-02	2.31E-03	9.06E-03	9.04E-03	4.31E-04	1.61E-02	2.21E-05	0.09288786	3.01E-02	2.31E-03	9.06E-03	9.04E-03	4.31E-04	3.94E-04	1.61E-02	6.74E-02
1209	490035.89, 3858876.54	5.46E-02	2.22E-03	8.71E-03	8.93E-03	4.22E-04	1.57E-02	2.12E-05	0.09060499	2.93E-02	2.22E-03	8.71E-03	8.93E-03	4.22E-04	3.96E-04	1.57E-02	6.57E-02
1210	489285.89, 3858926.54	1.05E-01	6.22E-03	2.35E-02	1.05E-02	6.33E-04	2.49E-02	1.10E-04	0.17058909	5.84E-02	6.22E-03	2.35E-02	1.05E-02	6.33E-04	3.80E-04	2.49E-02	1.25E-01
1211	489335.89, 3858926.54	9.66E-02	5.58E-03	2.14E-02	1.03E-02	6.01E-04	2.40E-02	7.89E-05	0.15855051	5.37E-02	5.58E-03	2.14E-02	1.03E-02	6.01E-04	3.77E-04	2.40E-02	1.16E-01
1212	489385.89, 3858926.54	9.07E-02	5.06E-03	1.97E-02	1.01E-02	5.74E-04	2.32E-02	6.20E-05	0.14927878	5.03E-02	5.06E-03	1.97E-02	1.01E-02	5.74E-04	3.75E-04	2.32E-02	1.09E-01
1213	489435.89, 3858926.54	8.60E-02	4.64E-03	1.82E-02	9.92E-03	5.51E-04	2.24E-02	5.16E-05	0.14175027	4.75E-02	4.64E-03	1.82E-02	9.92E-03	5.51E-04	3.74E-04	2.24E-02	1.04E-01
1214	489485.89, 3858926.54	8.18E-02	4.28E-03	1.70E-02	9.76E-03	5.30E-04	2.17E-02	4.46E-05	0.13509113	4.50E-02	4.28E-03	1.70E-02	9.76E-03	5.30E-04	3.72E-04	2.17E-02	9.87E-02
1215	489535.89, 3858926.54	7.79E-02	3.98E-03	1.59E-02	9.62E-03	5.11E-04	2.11E-02	3.94E-05	0.12909223	4.28E-02	3.98E-03	1.59E-02	9.62E-03	5.11E-04	3.71E-04	2.11E-02	9.43E-02
1216	489585.89, 3858926.54	7.46E-02	3.72E-03	1.50E-02	9.49E-03	4.94E-04	2.04E-02	3.55E-05	0.12377074	4.09E-02	3.72E-03	1.50E-02	9.49E-03	4.94E-04	3.71E-04	2.04E-02	9.04E-02
1217	489635.89, 3858926.54	7.16E-02	3.49E-03	1.42E-02	9.36E-03	4.80E-04	1.99E-02	3.23E-05	0.11907348	3.92E-02	3.49E-03	1.42E-02	9.36E-03	4.80E-04	3.70E-04	1.99E-02	8.70E-02
1218	489685.89, 3858926.54	6.90E-02	3.29E-03	1.35E-02	9.24E-03	4.67E-04	1.93E-02	2.98E-05	0.11480265	3.77E-02	3.29E-03	1.35E-02	9.24E-03	4.67E-04	3.71E-04	1.93E-02	8.38E-02
1219	489735.89, 3858926.54	6.66E-02	3.12E-03	1.29E-02	9.13E-03	4.55E-04	1.88E-02	2.77E-05	0.11097066	3.63E-02	3.12E-03	1.29E-02	9.13E-03	4.55E-04	3.71E-04	1.88E-02	8.10E-02
1220	489785.89, 3858926.54	6.44E-02	2.97E-03	1.23E-02	9.02E-03	4.44E-04	1.83E-02	2.60E-05	0.10748482	3.50E-02	2.97E-03	1.23E-02	9.02E-03	4.44E-04	3.72E-04	1.83E-02	7.85E-02
1221	489835.89, 3858926.54	6.24E-02	2.83E-03	1.18E-02	8.91E-03	4.34E-04	1.78E-02	2.44E-05	0.10423105	3.39E-02	2.83E-03	1.18E-02	8.91E-03	4.34E-04	3.73E-04	1.78E-02	7.61E-02
1222	489885.89, 3858926.54	6.06E-02	2.71E-03	1.13E-02	8.81E-03	4.25E-04	1.74E-02	2.31E-05	0.10126462	3.28E-02	2.71E-03	1.13E-02	8.81E-03	4.25E-04	3.74E-04	1.74E-02	7.39E-02
1223	489935.89, 3858926.54	5.88E-02	2.59E-03	1.09E-02	8.71E-03	4.16E-04	1.70E-02	2.20E-05	0.09848461	3.19E-02	2.59E-03	1.09E-02	8.71E-03	4.16E-04	3.75E-04	1.70E-02	7.19E-02
1224	489985.89, 3858926.54	5.73E-02	2.48E-03	1.05E-02	8.62E-03	4.08E-04	1.66E-02	2.10E-05	0.09584446	3.10E-02	2.48E-03	1.05E-02	8.62E-03	4.08E-04	3.77E-04	1.66E-02	6.99E-02
1225	490035.89, 3858926.54	5.58E-02	2.37E-03	9.95E-03	8.53E-03	4.01E-04	1.61E-02	2.02E-05	0.09317423	3.01E-02	2.37E-03	9.95E-03	8.53E-03	4.01E-04	3.80E-04	1.61E-02	6.79E-02
1226	489335.89, 3858976.54	1.16E-01	6.74E-03	2.87E-02	9.48E-03	5.31E-04	2.53E-02	6.54E-05	0.18661782	6.45E-02	6.74E-03	2.87E-02	9.48E-03	5.31E-04	3.69E-04	2.53E-02	1.36E-01
1227	489385.89, 3858976.54	1.08E-01	6.00E-03	2.57E-02	9.36E-03	5.13E-04	2.44E-02	5.36E-05	0.17349329	5.96E-02	6.00E-03	2.57E-02	9.36E-03	5.13E-04	3.66E-04	2.44E-02	1.26E-01
1228	489435.89, 3858976.54	9.79E-02	5.42E-03	2.34E-02	9.24E-03	4.97E-04	2.35E-02	4.59E-05	0.16004648	5.43E-02	5.42E-03	2.34E-02	9.24E-03	4.97E-04	3.64E-04	2.35E-02	1.17E-01
1229	489485.89, 3858976.54	9.03E-02	4.94E-03	2.14E-02	9.13E-03	4.82E-04	2.27E-02	4.03E-05	0.14899206	5.00E-02	4.94E-03	2.14E-02	9.13E-03	4.82E-04	3.62E-04	2.27E-02	1.09E-01
1230	489535.89, 3858976.54	8.42E-02	4.54E-03	1.98E-02	9.02E-03	4.68E-04	2.20E-02	3.61E-05	0.14000387	4.66E-02	4.54E-03	1.98E-02	9.02E-03	4.68E-04	3.61E-04	2.20E-02	1.03E-01
1231	489585.89, 3858976.54	7.95E-02	4.20E-03	1.84E-02	8.92E-03	4.56E-04	2.13E-02	3.28E-05	0.13282207	4.39E-02	4.20E-03	1.84E-02	8.92E-03	4.56E-04	3.59E-04	2.13E-02	9.75E-02
1232	489635.89, 3858976.54	7.57E-02	3.92E-03	1.72E-02	8.82E-03	4.44E-04	2.06E-02	3.01E-05	0.1267911	4.17E-02	3.92E-03	1.72E-02	8.82E-03	4.44E-04	3.59E-04	2.06E-02	9.31E-02

1233	489685.89, 3858976.54	7.24E-02	3.66E-03	1.62E-02	8.73E-03	4.33E-04	2.00E-02	2.79E-05	0.12149625	3.98E-02	3.66E-03	1.62E-02	8.73E-03	4.33E-04	3.59E-04	2.00E-02	8.92E-02
1234	489735.89, 3858976.54	6.96E-02	3.45E-03	1.53E-02	8.63E-03	4.24E-04	1.94E-02	2.61E-05	0.11684666	3.81E-02	3.45E-03	1.53E-02	8.63E-03	4.24E-04	3.58E-04	1.94E-02	8.58E-02
1235	489785.89, 3858976.54	6.70E-02	3.26E-03	1.45E-02	8.54E-03	4.15E-04	1.89E-02	2.45E-05	0.11271107	3.67E-02	3.26E-03	1.45E-02	8.54E-03	4.15E-04	3.58E-04	1.89E-02	8.27E-02
1236	489835.89, 3858976.54	6.47E-02	3.10E-03	1.38E-02	8.45E-03	4.07E-04	1.84E-02	2.31E-05	0.10893983	3.53E-02	3.10E-03	1.38E-02	8.45E-03	4.07E-04	3.59E-04	1.84E-02	7.99E-02
1237	489885.89, 3858976.54	6.26E-02	2.94E-03	1.32E-02	8.37E-03	4.00E-04	1.79E-02	2.19E-05	0.10541186	3.41E-02	2.94E-03	1.32E-02	8.37E-03	4.00E-04	3.60E-04	1.79E-02	7.73E-02
1238	489935.89, 3858976.54	6.07E-02	2.80E-03	1.26E-02	8.29E-03	3.92E-04	1.74E-02	2.09E-05	0.1022016	3.30E-02	2.80E-03	1.26E-02	8.29E-03	3.92E-04	3.61E-04	1.74E-02	7.49E-02
1239	489985.89, 3858976.54	5.89E-02	2.68E-03	1.21E-02	8.21E-03	3.86E-04	1.70E-02	2.00E-05	0.09922176	3.20E-02	2.68E-03	1.21E-02	8.21E-03	3.86E-04	3.63E-04	1.70E-02	7.27E-02
1240	490035.89, 3858976.54	5.73E-02	2.52E-03	1.12E-02	8.14E-03	3.79E-04	1.63E-02	1.91E-05	0.09593737	3.11E-02	2.52E-03	1.12E-02	8.14E-03	3.79E-04	3.66E-04	1.63E-02	7.00E-02
1241	489385.89, 3859026.54	1.28E-01	7.40E-03	3.35E-02	8.65E-03	4.56E-04	2.55E-02	4.86E-05	0.20395288	7.15E-02	7.40E-03	3.35E-02	8.65E-03	4.56E-04	3.58E-04	2.55E-02	1.47E-01
1242	489435.89, 3859026.54	1.18E-01	6.53E-03	2.98E-02	8.58E-03	4.46E-04	2.45E-02	4.17E-05	0.18829146	6.56E-02	6.53E-03	2.98E-02	8.58E-03	4.46E-04	3.56E-04	2.45E-02	1.36E-01
1243	489485.89, 3859026.54	1.02E-01	5.84E-03	2.69E-02	8.51E-03	4.36E-04	2.36E-02	3.68E-05	0.16755588	5.69E-02	5.84E-03	2.69E-02	8.51E-03	4.36E-04	3.53E-04	2.36E-02	1.23E-01
1244	489535.89, 3859026.54	9.27E-02	5.30E-03	2.45E-02	8.44E-03	4.27E-04	2.28E-02	3.32E-05	0.15419879	5.16E-02	5.30E-03	2.45E-02	8.44E-03	4.27E-04	3.51E-04	2.28E-02	1.13E-01
1245	489585.89, 3859026.54	8.63E-02	4.84E-03	2.25E-02	8.37E-03	4.18E-04	2.20E-02	3.03E-05	0.14451129	4.80E-02	4.84E-03	2.25E-02	8.37E-03	4.18E-04	3.50E-04	2.20E-02	1.06E-01
1246	489635.89, 3859026.54	8.15E-02	4.46E-03	2.09E-02	8.29E-03	4.10E-04	2.13E-02	2.80E-05	0.13681438	4.51E-02	4.46E-03	2.09E-02	8.29E-03	4.10E-04	3.49E-04	2.13E-02	1.01E-01
1247	489685.89, 3859026.54	7.73E-02	4.14E-03	1.95E-02	8.22E-03	4.01E-04	2.06E-02	2.61E-05	0.13019921	4.28E-02	4.14E-03	1.95E-02	8.22E-03	4.01E-04	3.48E-04	2.06E-02	9.60E-02
1248	489735.89, 3859026.54	7.37E-02	3.87E-03	1.82E-02	8.15E-03	3.94E-04	2.00E-02	2.45E-05	0.12439314	4.06E-02	3.87E-03	1.82E-02	8.15E-03	3.94E-04	3.47E-04	2.00E-02	9.17E-02
1249	489785.89, 3859026.54	7.05E-02	3.63E-03	1.72E-02	8.08E-03	3.87E-04	1.95E-02	2.31E-05	0.11925659	3.88E-02	3.63E-03	1.72E-02	8.08E-03	3.87E-04	3.47E-04	1.95E-02	8.79E-02
1250	489835.89, 3859026.54	6.77E-02	3.42E-03	1.62E-02	8.01E-03	3.80E-04	1.89E-02	2.19E-05	0.11459591	3.72E-02	3.42E-03	1.62E-02	8.01E-03	3.80E-04	3.47E-04	1.89E-02	8.44E-02
1251	489885.89, 3859026.54	6.52E-02	3.23E-03	1.53E-02	7.95E-03	3.74E-04	1.84E-02	2.08E-05	0.11044384	3.57E-02	3.23E-03	1.53E-02	7.95E-03	3.74E-04	3.47E-04	1.84E-02	8.13E-02
1252	489935.89, 3859026.54	6.29E-02	3.06E-03	1.45E-02	7.88E-03	3.69E-04	1.78E-02	1.98E-05	0.10664622	3.44E-02	3.06E-03	1.45E-02	7.88E-03	3.69E-04	3.48E-04	1.78E-02	7.85E-02
1253	489985.89, 3859026.54	6.09E-02	2.91E-03	1.38E-02	7.82E-03	3.63E-04	1.74E-02	1.90E-05	0.10316827	3.33E-02	2.91E-03	1.38E-02	7.82E-03	3.63E-04	3.49E-04	1.74E-02	7.59E-02
1254	490035.89, 3859026.54	5.91E-02	2.72E-03	1.27E-02	7.76E-03	3.57E-04	1.66E-02	1.82E-05	0.09927753	3.22E-02	2.72E-03	1.27E-02	7.76E-03	3.57E-04	3.52E-04	1.66E-02	7.27E-02
1255	489485.89, 3859076.54	1.19E-01	7.18E-03	3.40E-02	7.93E-03	3.95E-04	2.44E-02	3.49E-05	0.19300926	6.67E-02	7.18E-03	3.40E-02	7.93E-03	3.95E-04	3.46E-04	2.44E-02	1.41E-01
1256	489535.89, 3859076.54	1.09E-01	6.37E-03	3.05E-02	7.89E-03	3.89E-04	2.35E-02	3.12E-05	0.17791458	6.10E-02	6.37E-03	3.05E-02	7.89E-03	3.89E-04	3.44E-04	2.35E-02	1.30E-01
1257	489585.89, 3859076.54	9.92E-02	5.72E-03	2.77E-02	7.84E-03	3.83E-04	2.26E-02	2.85E-05	0.16351092	5.53E-02	5.72E-03	2.77E-02	7.84E-03	3.83E-04	3.42E-04	2.26E-02	1.20E-01
1258	489635.89, 3859076.54	9.14E-02	5.20E-03	2.54E-02	7.79E-03	3.77E-04	2.19E-02	2.63E-05	0.15202866	5.09E-02	5.20E-03	2.54E-02	7.79E-03	3.77E-04	3.40E-04	2.19E-02	1.12E-01
1259	489685.89, 3859076.54	8.49E-02	4.77E-03	2.34E-02	7.74E-03	3.71E-04	2.12E-02	2.46E-05	0.14247408	4.72E-02	4.77E-03	2.34E-02	7.74E-03	3.71E-04	3.38E-04	2.12E-02	1.05E-01
1260	489735.89, 3859076.54	7.96E-02	4.41E-03	2.17E-02	7.69E-03	3.66E-04	2.06E-02	2.31E-05	0.13440864	4.42E-02	4.41E-03	2.17E-02	7.69E-03	3.66E-04	3.37E-04	2.06E-02	9.93E-02
1261	489785.89, 3859076.54	7.52E-02	4.10E-03	2.03E-02	7.64E-03	3.60E-04	2.00E-02	2.18E-05	0.12760708	4.17E-02	4.10E-03	2.03E-02	7.64E-03	3.60E-04	3.36E-04	2.00E-02	9.44E-02
1262	489835.89, 3859076.54	7.16E-02	3.83E-03	1.90E-02	7.59E-03	3.55E-04	1.94E-02	2.07E-05	0.12174205	3.96E-02	3.83E-03	1.90E-02	7.59E-03	3.55E-04	3.36E-04	1.94E-02	9.01E-02
1263	489885.89, 3859076.54	6.85E-02	3.59E-03	1.79E-02	7.54E-03	3.50E-04	1.88E-02	1.97E-05	0.11660078	3.78E-02	3.59E-03	1.79E-02	7.54E-03	3.50E-04	3.36E-04	1.88E-02	8.62E-02
1264	489935.89, 3859076.54	6.57E-02	3.38E-03	1.69E-02	7.49E-03	3.46E-04	1.83E-02	1.88E-05	0.11206948	3.62E-02	3.38E-03	1.69E-02	7.49E-03	3.46E-04	3.36E-04	1.83E-02	8.29E-02
1265	489985.89, 3859076.54	6.33E-02	3.20E-03	1.59E-02	7.44E-03	3.42E-04	1.77E-02	1.80E-05	0.10792656	3.48E-02	3.20E-03	1.59E-02	7.44E-03	3.42E-04	3.37E-04	1.77E-02	7.97E-02
1266	490035.89, 3859076.54	6.12E-02	2.98E-03	1.46E-02	7.39E-03	3.37E-04	1.70E-02	1.73E-05	0.10352413	3.35E-02	2.98E-03	1.46E-02	7.39E-03	3.37E-04	3.39E-04	1.70E-02	7.61E-02
1267	489585.89, 3859126.54	1.27E-01	7.00E-03	3.46E-02	7.35E-03	3.51E-04	2.32E-02	2.73E-05	0.19915668	7.02E-02	7.00E-03	3.46E-02	7.35E-03	3.51E-04	3.34E-04	2.32E-02	1.43E-01
1268	489635.89, 3859126.54	1.09E-01	6.24E-03	3.12E-02	7.32E-03	3.47E-04	2.24E-02	2.51E-05	0.17646042	6.06E-02	6.24E-03	3.12E-02	7.32E-03	3.47E-04	3.32E-04	2.24E-02	1.28E-01
1269	489685.89, 3859126.54	9.63E-02	5.62E-03	2.84E-02	7.29E-03	3.43E-04	2.17E-02	2.34E-05	0.15964064	5.38E-02	5.62E-03	2.84E-02	7.29E-03	3.43E-04	3.30E-04	2.17E-02	1.17E-01
1270	489735.89, 3859126.54	8.76E-02	5.12E-03	2.61E-02	7.25E-03	3.39E-04	2.10E-02	2.20E-05	0.14736279	4.89E-02	5.12E-03	2.61E-02	7.25E-03	3.39E-04	3.28E-04	2.10E-02	1.09E-01
1271	489785.89, 3859126.54	8.13E-02	4.71E-03	2.41E-02	7.22E-03	3.35E-04	2.04E-02	2.07E-05	0.13807176	4.54E-02	4.71E-03	2.41E-02	7.22E-03	3.35E-04	3.27E-04	2.04E-02	1.02E-01
1272	489835.89, 3859126.54	7.66E-02	4.35E-03	2.24E-02	7.18E-03	3.31E-04	1.97E-02	1.97E-05	0.13055741	4.26E-02	4.35E-03	2.24E-02	7.18E-03	3.31E-04	3.26E-04	1.97E-02	9.69E-02
1273	489885.89, 3859126.54	7.26E-02	4.04E-03	2.09E-02	7.15E-03	3.28E-04	1.91E-02	1.87E-05	0.12411783	4.03E-02	4.04E-03	2.09E-02	7.15E-03	3.28E-04	3.26E-04	1.91E-02	9.21E-02
1274	489935.89, 3859126.54	6.92E-02	3.78E-03	1.96E-02	7.11E-03	3.24E-04	1.86E-02	1.79E-05	0.11860055	3.84E-02	3.78E-03	1.96E-02	7.11E-03	3.24E-04	3.26E-04	1.86E-02	8.80E-02
1275	489985.89, 3859126.54	6.63E-02	3.53E-03	1.82E-02	7.07E-03	3.21E-04	1.79E-02	1.71E-05	0.1134449	3.67E-02	3.53E-03	1.82E-02	7.07E-03	3.21E-04	3.27E-04	1.79E-02	8.41E-02
1276	490035.89, 3859126.54	6.38E-02	3.30E-03	1.69E-02	7.04E-03	3.17E-04	1.73E-02	1.65E-05	0.10861867	3.51E-02	3.30E-03	1.69E-02	7.04E-03	3.17E-04	3.28E-04	1.73E-02	8.03E-02
1277	489585.89, 3859176.54	1.43E-01	8.99E-03	4.45E-02	6.89E-03	3.23E-04	2.36E-02	2.59E-05	0.22736867	8.05E-02	8.99E-03	4.45E-02	6.89E-03	3.23E-04	3.27E-04	2.36E-02	1.65E-01
1278	489635.89, 3859176.54	1.29E-01	7.77E-03	3.92E-02	6.87E-03	3.21E-04	2.28E-02	2.46E-05	0.20592829	7.22E-02	7.77E-03	3.92E-02	6.87E-03	3.21E-04	3.25E-04	2.28E-02	1.50E-01
1279	489685.89, 3859176.54	1.10E-01	6.85E-03	3.51E-02	6.86E-03	3.18E-04	2.21E-02	2.26E-05	0.18067813	6.17E-02	6.85E-03	3.51E-02	6.86E-03	3.18E-04	3.22E-04	2.21E-02	1.33E-01
1280	489735.89, 3859176.54	9.79E-02	6.12E-03	3.17E-02	6.84E-03	3.15E-04	2.14E-02	2.11E-05	0.16431522	5.52E-02	6.12E-03	3.17E-02	6.84E-03	3.15E-04	3.20E-04	2.14E-02	1.22E-01
1281	489785.89, 3859176.54	8.99E-02	5.53E-03	2.89E-02	6.82E-03	3.12E-04	2.07E-02	1.98E-05	0.15211229	5.05E-02	5.53E-03	2.89E-02	6.82E-03	3.12E-04	3.19E-04	2.07E-02	1.13E-01
1282	489835.89, 3859176.54	8.36E-02	5.04E-03	2.66E-02	6.80E-03	3.10E-04	2.00E-02	1.88E-05	0.1423231	4.69E-02	5.04E-03	2.66E-02	6.80E-03	3.10E-04	3.18E-04	2.00E-02	1.06E-01
1283	489885.89, 3859176.54	7.83E-02	4.63E-03	2.45E-02	6.77E-03	3.07E-04	1.94E-02	1.79E-05	0.13400821	4.38E-02	4.63E-03	2.45E-02	6.77E-03	3.07E-04	3.17E-04	1.94E-02	9.98E-02
1284	489935.89, 3859176.54	7.39E-02	4.29E-03	2.28E-02	6.75E-03	3.04E-04	1.88E-02	1.71E-05	0.12692526	4.13E-02	4.29E-03	2.28E-02	6.75E-03	3.04E-04	3.17E-04	1.88E-02	9.46E-02
1285	489985.89, 3859176.54	7.02E-02	3.97E-03	2.11E-02	6.72E-03	3.01E-04	1.82E-02	1.63E-05	0.12049877	3.91E-02	3.97E-03	2.11E-02	6.72E-03	3.01E-04	3.17E-04	1.82E-02	8.97E-02
1286	490035.89, 3859176.54	6.70E-02	3.72E-03	1.98E-02	6.69E-03	2.99E-04	1.77E-02	1.57E-05	0.11520634	3.72E-02	3.72E-03	1.98E-02	6.69E-03	2.99E-04	3.17E-04	1.77E-02	8.57E-02

1287	489685.89, 3859226.54	1.32E-01	8.74E-03	4.46E-02	6.46E-03	2.95E-04	2.22E-02	2.23E-05	0.21432454	7.49E-02	8.74E-03	4.46E-02	6.46E-03	2.95E-04	3.16E-04	2.22E-02	1.58E-01
1288	489735.89, 3859226.54	1.23E-01	7.60E-03	3.94E-02	6.45E-03	2.94E-04	2.16E-02	2.05E-05	0.19867398	6.93E-02	7.60E-03	3.94E-02	6.45E-03	2.94E-04	3.14E-04	2.16E-02	1.45E-01
1289	489785.89, 3859226.54	1.07E-01	6.71E-03	3.53E-02	6.44E-03	2.92E-04	2.09E-02	1.91E-05	0.17696587	6.04E-02	6.71E-03	3.53E-02	6.44E-03	2.92E-04	3.12E-04	2.09E-02	1.30E-01
1290	489835.89, 3859226.54	9.57E-02	6.00E-03	3.19E-02	6.43E-03	2.90E-04	2.02E-02	1.80E-05	0.16054424	5.39E-02	6.00E-03	3.19E-02	6.43E-03	2.90E-04	3.10E-04	2.02E-02	1.19E-01
1291	489885.89, 3859226.54	8.69E-02	5.43E-03	2.92E-02	6.42E-03	2.88E-04	1.96E-02	1.71E-05	0.14784097	4.90E-02	5.43E-03	2.92E-02	6.42E-03	2.88E-04	3.09E-04	1.96E-02	1.10E-01
1292	489935.89, 3859226.54	8.03E-02	4.96E-03	2.68E-02	6.40E-03	2.86E-04	1.90E-02	1.63E-05	0.13780333	4.52E-02	4.96E-03	2.68E-02	6.40E-03	2.86E-04	3.08E-04	1.90E-02	1.03E-01
1293	489985.89, 3859226.54	7.52E-02	4.52E-03	2.45E-02	6.39E-03	2.83E-04	1.83E-02	1.55E-05	0.12921889	4.22E-02	4.52E-03	2.45E-02	6.39E-03	2.83E-04	3.08E-04	1.83E-02	9.65E-02
1294	490035.89, 3859226.54	7.11E-02	4.21E-03	2.28E-02	6.37E-03	2.81E-04	1.78E-02	1.49E-05	0.12264949	3.98E-02	4.21E-03	2.28E-02	6.37E-03	2.81E-04	3.08E-04	1.78E-02	9.16E-02
1295	489735.89, 3859276.54	1.46E-01	1.00E-02	5.11E-02	6.08E-03	2.74E-04	2.17E-02	1.95E-05	0.235527	8.34E-02	1.00E-02	5.11E-02	6.08E-03	2.74E-04	3.07E-04	2.17E-02	1.73E-01
1296	489785.89, 3859276.54	1.36E-01	8.53E-03	4.45E-02	6.08E-03	2.73E-04	2.10E-02	1.89E-05	0.21639335	7.66E-02	8.53E-03	4.45E-02	6.08E-03	2.73E-04	3.05E-04	2.10E-02	1.57E-01
1297	489835.89, 3859276.54	1.14E-01	7.41E-03	3.94E-02	6.09E-03	2.72E-04	2.03E-02	1.74E-05	0.18716437	6.44E-02	7.41E-03	3.94E-02	6.09E-03	2.72E-04	3.04E-04	2.03E-02	1.38E-01
1298	489885.89, 3859276.54	9.82E-02	6.57E-03	3.53E-02	6.08E-03	2.70E-04	1.97E-02	1.64E-05	0.16614138	5.58E-02	6.57E-03	3.53E-02	6.08E-03	2.70E-04	3.02E-04	1.97E-02	1.24E-01
1299	489935.89, 3859276.54	8.86E-02	5.88E-03	3.20E-02	6.08E-03	2.69E-04	1.91E-02	1.55E-05	0.15186726	5.03E-02	5.88E-03	3.20E-02	6.08E-03	2.69E-04	3.01E-04	1.91E-02	1.14E-01
1300	489985.89, 3859276.54	8.18E-02	5.27E-03	2.87E-02	6.08E-03	2.67E-04	1.83E-02	1.48E-05	0.14050201	4.63E-02	5.27E-03	2.87E-02	6.08E-03	2.67E-04	3.01E-04	1.83E-02	1.05E-01
1301	490035.89, 3859276.54	7.67E-02	4.86E-03	2.68E-02	6.06E-03	2.66E-04	1.80E-02	1.42E-05	0.13258019	4.33E-02	4.86E-03	2.68E-02	6.06E-03	2.66E-04	2.99E-04	1.80E-02	9.95E-02
1302	490458.06, 3859590.74	1.04E-01	8.29E-03	4.52E-02	4.51E-03	1.90E-04	1.49E-02	7.87E-06	0.1767935	6.05E-02	8.29E-03	4.52E-02	4.51E-03	1.90E-04	2.50E-04	1.49E-02	1.34E-01
1303	490508.06, 3859590.74	9.07E-02	7.33E-03	4.04E-02	4.52E-03	1.90E-04	1.46E-02	7.54E-06	0.15768776	5.30E-02	7.33E-03	4.04E-02	4.52E-03	1.90E-04	2.50E-04	1.46E-02	1.20E-01
1304	490558.06, 3859590.74	8.14E-02	6.53E-03	3.59E-02	4.53E-03	1.90E-04	1.42E-02	7.30E-06	0.14269008	4.75E-02	6.53E-03	3.59E-02	4.53E-03	1.90E-04	2.50E-04	1.42E-02	1.09E-01
1305	490608.06, 3859590.74	7.44E-02	5.87E-03	3.23E-02	4.53E-03	1.90E-04	1.38E-02	7.10E-06	0.13115196	4.34E-02	5.87E-03	3.23E-02	4.53E-03	1.90E-04	2.50E-04	1.38E-02	1.00E-01
1306	490658.06, 3859590.74	6.90E-02	5.32E-03	2.92E-02	4.54E-03	1.90E-04	1.35E-02	6.92E-06	0.12178001	4.01E-02	5.32E-03	2.92E-02	4.54E-03	1.90E-04	2.51E-04	1.35E-02	9.31E-02
1307	490708.06, 3859590.74	6.47E-02	4.84E-03	2.66E-02	4.54E-03	1.89E-04	1.31E-02	6.76E-06	0.11395267	3.74E-02	4.84E-03	2.66E-02	4.54E-03	1.89E-04	2.51E-04	1.31E-02	8.69E-02
1308	490758.06, 3859590.74	6.11E-02	4.42E-03	2.41E-02	4.53E-03	1.89E-04	1.27E-02	6.60E-06	0.10710934	3.51E-02	4.42E-03	2.41E-02	4.53E-03	1.89E-04	2.52E-04	1.27E-02	8.14E-02
1309	490808.06, 3859590.74	5.81E-02	4.08E-03	2.22E-02	4.52E-03	1.89E-04	1.24E-02	6.45E-06	0.10155438	3.33E-02	4.08E-03	2.22E-02	4.52E-03	1.89E-04	2.53E-04	1.24E-02	7.69E-02
1310	490858.06, 3859590.74	5.56E-02	3.78E-03	2.04E-02	4.51E-03	1.88E-04	1.21E-02	6.31E-06	0.09655674	3.17E-02	3.78E-03	2.04E-02	4.51E-03	1.88E-04	2.54E-04	1.21E-02	7.29E-02
1311	490458.06, 3859640.74	1.40E-01	1.20E-02	6.32E-02	4.31E-03	1.81E-04	1.49E-02	8.11E-06	0.23494259	8.28E-02	1.20E-02	6.32E-02	4.31E-03	1.81E-04	2.44E-04	1.49E-02	1.78E-01
1312	490508.06, 3859640.74	1.23E-01	1.02E-02	5.48E-02	4.32E-03	1.81E-04	1.46E-02	7.70E-06	0.20742331	7.24E-02	1.02E-02	5.48E-02	4.32E-03	1.81E-04	2.43E-04	1.46E-02	1.57E-01
1313	490558.06, 3859640.74	1.04E-01	8.86E-03	4.81E-02	4.34E-03	1.81E-04	1.43E-02	7.19E-06	0.18013076	6.15E-02	8.86E-03	4.81E-02	4.34E-03	1.81E-04	2.43E-04	1.43E-02	1.37E-01
1314	490608.06, 3859640.74	9.05E-02	7.69E-03	4.20E-02	4.35E-03	1.82E-04	1.39E-02	6.89E-06	0.15864673	5.34E-02	7.69E-03	4.20E-02	4.35E-03	1.82E-04	2.43E-04	1.39E-02	1.22E-01
1315	490658.06, 3859640.74	8.07E-02	6.74E-03	3.66E-02	4.36E-03	1.82E-04	1.35E-02	6.66E-06	0.14213353	4.75E-02	6.74E-03	3.66E-02	4.36E-03	1.82E-04	2.44E-04	1.35E-02	1.09E-01
1316	490708.06, 3859640.74	7.36E-02	6.03E-03	3.27E-02	4.36E-03	1.82E-04	1.32E-02	6.48E-06	0.13007988	4.31E-02	6.03E-03	3.27E-02	4.36E-03	1.82E-04	2.44E-04	1.32E-02	9.98E-02
1317	490758.06, 3859640.74	6.81E-02	5.41E-03	2.93E-02	4.36E-03	1.82E-04	1.28E-02	6.32E-06	0.12019092	3.97E-02	5.41E-03	2.93E-02	4.36E-03	1.82E-04	2.45E-04	1.28E-02	9.20E-02
1318	490808.06, 3859640.74	6.38E-02	4.94E-03	2.69E-02	4.36E-03	1.81E-04	1.25E-02	6.19E-06	0.11267345	3.71E-02	4.94E-03	2.69E-02	4.36E-03	1.81E-04	2.45E-04	1.25E-02	8.62E-02
1319	490858.06, 3859640.74	6.03E-02	4.55E-03	2.47E-02	4.36E-03	1.81E-04	1.22E-02	6.06E-06	0.10632268	3.49E-02	4.55E-03	2.47E-02	4.36E-03	1.81E-04	2.46E-04	1.22E-02	8.12E-02
1320	490608.06, 3859690.74	1.24E-01	1.09E-02	5.84E-02	4.17E-03	1.74E-04	1.39E-02	7.15E-06	0.21117113	7.33E-02	1.09E-02	5.84E-02	4.17E-03	1.74E-04	2.37E-04	1.39E-02	1.61E-01
1321	490658.06, 3859690.74	1.04E-01	9.17E-03	4.90E-02	4.18E-03	1.75E-04	1.36E-02	6.64E-06	0.17988631	6.16E-02	9.17E-03	4.90E-02	4.18E-03	1.75E-04	2.38E-04	1.36E-02	1.38E-01
1322	490708.06, 3859690.74	8.97E-02	7.92E-03	4.23E-02	4.19E-03	1.75E-04	1.32E-02	6.34E-06	0.15752118	5.32E-02	7.92E-03	4.23E-02	4.19E-03	1.75E-04	2.38E-04	1.32E-02	1.21E-01
1323	490758.06, 3859690.74	7.99E-02	6.93E-03	3.69E-02	4.20E-03	1.75E-04	1.29E-02	6.13E-06	0.14096513	4.72E-02	6.93E-03	3.69E-02	4.20E-03	1.75E-04	2.38E-04	1.29E-02	1.09E-01
1324	490808.06, 3859690.74	7.28E-02	6.17E-03	3.31E-02	4.20E-03	1.75E-04	1.26E-02	5.96E-06	0.12894255	4.29E-02	6.17E-03	3.31E-02	4.20E-03	1.75E-04	2.39E-04	1.26E-02	9.93E-02
1325	490858.06, 3859690.74	6.74E-02	5.64E-03	3.07E-02	4.20E-03	1.74E-04	1.23E-02	5.85E-06	0.1204679	3.97E-02	5.64E-03	3.07E-02	4.20E-03	1.74E-04	2.39E-04	1.23E-02	9.29E-02
1326	490708.06, 3859740.74	1.23E-01	1.15E-02	6.12E-02	4.03E-03	1.68E-04	1.33E-02	6.72E-06	0.21340586	7.38E-02	1.15E-02	6.12E-02	4.03E-03	1.68E-04	2.32E-04	1.33E-02	1.64E-01
1327	490758.06, 3859740.74	1.04E-01	9.77E-03	5.22E-02	4.03E-03	1.68E-04	1.30E-02	6.20E-06	0.18299459	6.23E-02	9.77E-03	5.22E-02	4.03E-03	1.68E-04	2.31E-04	1.30E-02	1.42E-01
1328	490808.06, 3859740.74	8.97E-02	8.43E-03	4.51E-02	4.04E-03	1.68E-04	1.27E-02	5.91E-06	0.16012949	5.38E-02	8.43E-03	4.51E-02	4.04E-03	1.68E-04	2.32E-04	1.27E-02	1.24E-01
1329	490858.06, 3859740.74	7.99E-02	7.42E-03	4.01E-02	4.04E-03	1.68E-04	1.24E-02	5.72E-06	0.14416109	4.79E-02	7.42E-03	4.01E-02	4.04E-03	1.68E-04	2.32E-04	1.24E-02	1.12E-01
1330	490786.56, 3859749.39	1.00E-01	9.57E-03	5.14E-02	4.01E-03	1.67E-04	1.29E-02	6.06E-06	0.17831208	6.03E-02	9.57E-03	5.14E-02	4.01E-03	1.67E-04	2.30E-04	1.29E-02	1.39E-01
1331	490836.56, 3859749.39	8.73E-02	8.28E-03	4.44E-02	4.02E-03	1.67E-04	1.26E-02	5.79E-06	0.15674622	5.25E-02	8.28E-03	4.44E-02	4.02E-03	1.67E-04	2.31E-04	1.26E-02	1.22E-01
1332	490786.56, 3859799.39	1.37E-01	1.53E-02	8.06E-02	3.85E-03	1.60E-04	1.29E-02	6.29E-06	0.25006408	8.50E-02	1.53E-02	8.06E-02	3.85E-03	1.60E-04	2.24E-04	1.29E-02	1.98E-01
1333	490836.56, 3859799.39	1.21E-01	1.24E-02	6.62E-02	3.86E-03	1.60E-04	1.26E-02	6.16E-06	0.21625015	7.36E-02	1.24E-02	6.62E-02	3.86E-03	1.60E-04	2.24E-04	1.26E-02	1.69E-01
1334	492307.84, 3854508.36	1.65E-02	3.97E-04	9.95E-04	4.00E-03	2.40E-04	1.87E-03	2.28E-07	0.02395781	8.45E-03	3.97E-04	9.95E-04	4.00E-03	2.40E-04	5.14E-04	1.87E-03	1.65E-02
1335	486445.7, 3854753.6	3.63E-02	7.94E-04	1.24E-03	7.99E-03	6.76E-04	2.15E-03	2.32E-07	0.04915964	1.83E-02	7.94E-04	1.24E-03	7.99E-03	6.76E-04	7.27E-04	2.15E-03	3.19E-02
1336	472599.75, 3877830.11	4.01E-04	3.32E-05	7.97E-05	1.34E-04	6.45E-06	1.22E-04	4.10E-08	0.0007773	2.36E-04	3.32E-05	7.97E-05	1.34E-04	6.45E-06	1.09E-05	1.22E-04	6.23E-04
1337	493107.48, 3866840.19	1.68E-03	7.30E-05	2.05E-04	4.02E-04	2.01E-05	3.61E-04	1.57E-07	0.00273986	9.05E-04	7.30E-05	2.05E-04	4.02E-04	2.01E-05	3.45E-05	3.61E-04	2.00E-03
1338	495815.79, 3861662.87	1.24E-02	3.20E-03	1.26E-03	1.46E-03	6.19E-05	2.34E-03	8.92E-07	0.02068379	9.91E-03	3.20E-03	1.26E-03	1.46E-03	6.19E-05	1.13E-04	2.34E-03	1.83E-02
1339	480272.33, 3841389.2	9.06E-04	6.02E-05	4.54E-05	4.12E-05	2.12E-06	4.18E-05	1.17E-08	0.00109677	5.14E-04	6.02E-05	4.54E-05	4.12E-05	2.12E-06	4.01E-06	4.18E-05	7.09E-04
1340	497005.18, 3862813.64	5.44E-03	1.11E-03	7.05E-04	1.04E-03	4.32E-05	1.48E-03	5.67E-07	0.00981548	4.00E-03	1.11E-03	7.05E-04	1.04E-03	4.32E-05	7.75E-05	1.48E-03	8.45E-03

1341	493677.33, 3860302.55	1.75E-02	1.22E-03	5.36E-03	2.66E-03	1.15E-04	5.09E-03	2.15E-06	0.03191079	9.99E-03	1.22E-03	5.36E-03	2.66E-03	1.15E-04	1.98E-04	5.09E-03	2.46E-02
1342	493727.33, 3860302.55	1.73E-02	1.20E-03	5.23E-03	2.65E-03	1.15E-04	5.04E-03	2.14E-06	0.03148867	9.87E-03	1.20E-03	5.23E-03	2.65E-03	1.15E-04	1.98E-04	5.04E-03	2.43E-02
1343	493777.33, 3860302.55	1.71E-02	1.18E-03	5.09E-03	2.64E-03	1.15E-04	4.99E-03	2.13E-06	0.03109305	9.75E-03	1.18E-03	5.09E-03	2.64E-03	1.15E-04	1.98E-04	4.99E-03	2.40E-02
1344	493827.33, 3860302.55	1.69E-02	1.16E-03	4.96E-03	2.64E-03	1.14E-04	4.94E-03	2.12E-06	0.03070657	9.64E-03	1.16E-03	4.96E-03	2.64E-03	1.14E-04	1.98E-04	4.94E-03	2.36E-02
1345	493877.33, 3860302.55	1.67E-02	1.14E-03	4.84E-03	2.63E-03	1.14E-04	4.89E-03	2.11E-06	0.03033696	9.53E-03	1.14E-03	4.84E-03	2.63E-03	1.14E-04	1.97E-04	4.89E-03	2.33E-02
1346	493927.33, 3860302.55	1.65E-02	1.12E-03	4.73E-03	2.62E-03	1.14E-04	4.85E-03	2.09E-06	0.02996082	9.42E-03	1.12E-03	4.73E-03	2.62E-03	1.14E-04	1.97E-04	4.85E-03	2.31E-02
1347	493977.33, 3860302.55	1.64E-02	1.09E-03	4.59E-03	2.61E-03	1.14E-04	4.78E-03	2.09E-06	0.02960186	9.33E-03	1.09E-03	4.59E-03	2.61E-03	1.14E-04	1.97E-04	4.78E-03	2.27E-02
1348	494027.33, 3860302.55	1.63E-02	1.07E-03	4.47E-03	2.60E-03	1.14E-04	4.73E-03	2.08E-06	0.02924849	9.23E-03	1.07E-03	4.47E-03	2.60E-03	1.14E-04	1.97E-04	4.73E-03	2.24E-02
1349	493677.33, 3860352.55	1.64E-02	1.26E-03	5.29E-03	2.61E-03	1.12E-04	5.02E-03	2.08E-06	0.03068502	9.52E-03	1.26E-03	5.29E-03	2.61E-03	1.12E-04	1.94E-04	5.02E-03	2.40E-02
1350	493727.33, 3860352.55	1.62E-02	1.24E-03	5.16E-03	2.60E-03	1.12E-04	4.98E-03	2.07E-06	0.03030007	9.41E-03	1.24E-03	5.16E-03	2.60E-03	1.12E-04	1.93E-04	4.98E-03	2.37E-02
1351	493777.33, 3860352.55	1.60E-02	1.22E-03	5.03E-03	2.59E-03	1.12E-04	4.93E-03	2.06E-06	0.02992067	9.30E-03	1.22E-03	5.03E-03	2.59E-03	1.12E-04	1.93E-04	4.93E-03	2.34E-02
1352	493827.33, 3860352.55	1.59E-02	1.20E-03	4.91E-03	2.58E-03	1.12E-04	4.88E-03	2.05E-06	0.02955809	9.19E-03	1.20E-03	4.91E-03	2.58E-03	1.12E-04	1.93E-04	4.88E-03	2.31E-02
1353	493877.33, 3860352.55	1.57E-02	1.18E-03	4.78E-03	2.58E-03	1.12E-04	4.83E-03	2.04E-06	0.02920211	9.09E-03	1.18E-03	4.78E-03	2.58E-03	1.12E-04	1.93E-04	4.83E-03	2.28E-02
1354	493927.33, 3860352.55	1.56E-02	1.15E-03	4.66E-03	2.57E-03	1.11E-04	4.78E-03	2.03E-06	0.02886307	9.00E-03	1.15E-03	4.66E-03	2.57E-03	1.11E-04	1.93E-04	4.78E-03	2.25E-02
1355	493977.33, 3860352.55	1.54E-02	1.12E-03	4.54E-03	2.56E-03	1.11E-04	4.72E-03	2.03E-06	0.02851312	8.90E-03	1.12E-03	4.54E-03	2.56E-03	1.11E-04	1.93E-04	4.72E-03	2.22E-02
1356	494027.33, 3860352.55	1.53E-02	1.11E-03	4.44E-03	2.55E-03	1.11E-04	4.68E-03	2.02E-06	0.028196	8.81E-03	1.11E-03	4.44E-03	2.55E-03	1.11E-04	1.93E-04	4.68E-03	2.19E-02
1357	493677.33, 3860402.55	1.59E-02	1.31E-03	5.20E-03	2.56E-03	1.10E-04	4.95E-03	2.02E-06	0.02997688	9.31E-03	1.31E-03	5.20E-03	2.56E-03	1.10E-04	1.89E-04	4.95E-03	2.36E-02
1358	493727.33, 3860402.55	1.57E-02	1.29E-03	5.07E-03	2.55E-03	1.09E-04	4.91E-03	2.01E-06	0.02959344	9.20E-03	1.29E-03	5.07E-03	2.55E-03	1.09E-04	1.89E-04	4.91E-03	2.33E-02
1359	493777.33, 3860402.55	1.55E-02	1.25E-03	4.93E-03	2.54E-03	1.09E-04	4.85E-03	2.00E-06	0.02921391	9.09E-03	1.25E-03	4.93E-03	2.54E-03	1.09E-04	1.89E-04	4.85E-03	2.30E-02
1360	493827.33, 3860402.55	1.54E-02	1.24E-03	4.81E-03	2.53E-03	1.09E-04	4.81E-03	1.99E-06	0.02887204	8.99E-03	1.24E-03	4.81E-03	2.53E-03	1.09E-04	1.89E-04	4.81E-03	2.27E-02
1361	493877.33, 3860402.55	1.52E-02	1.22E-03	4.70E-03	2.53E-03	1.09E-04	4.77E-03	1.98E-06	0.02852688	8.89E-03	1.22E-03	4.70E-03	2.53E-03	1.09E-04	1.89E-04	4.77E-03	2.24E-02
1362	493927.33, 3860402.55	1.51E-02	1.19E-03	4.58E-03	2.52E-03	1.09E-04	4.72E-03	1.97E-06	0.02819039	8.79E-03	1.19E-03	4.58E-03	2.52E-03	1.09E-04	1.89E-04	4.72E-03	2.21E-02
1363	493977.33, 3860402.55	1.49E-02	1.16E-03	4.46E-03	2.52E-03	1.09E-04	4.66E-03	1.97E-06	0.02785527	8.69E-03	1.16E-03	4.46E-03	2.52E-03	1.09E-04	1.90E-04	4.66E-03	2.18E-02
1364	494027.33, 3860402.55	1.48E-02	1.14E-03	4.37E-03	2.51E-03	1.09E-04	4.62E-03	1.96E-06	0.0275588	8.61E-03	1.14E-03	4.37E-03	2.51E-03	1.09E-04	1.89E-04	4.62E-03	2.15E-02
1365	493677.33, 3860452.55	1.54E-02	1.35E-03	5.07E-03	2.51E-03	1.07E-04	4.87E-03	1.96E-06	0.02935798	9.17E-03	1.35E-03	5.07E-03	2.51E-03	1.07E-04	1.84E-04	4.87E-03	2.33E-02
1366	493727.33, 3860452.55	1.53E-02	1.34E-03	4.96E-03	2.50E-03	1.07E-04	4.83E-03	1.94E-06	0.02900222	9.07E-03	1.34E-03	4.96E-03	2.50E-03	1.07E-04	1.84E-04	4.83E-03	2.30E-02
1367	493777.33, 3860452.55	1.51E-02	1.31E-03	4.84E-03	2.49E-03	1.07E-04	4.79E-03	1.94E-06	0.02863654	8.96E-03	1.31E-03	4.84E-03	2.49E-03	1.07E-04	1.84E-04	4.79E-03	2.27E-02
1368	493827.33, 3860452.55	1.50E-02	1.28E-03	4.71E-03	2.48E-03	1.07E-04	4.74E-03	1.93E-06	0.02829297	8.85E-03	1.28E-03	4.71E-03	2.48E-03	1.07E-04	1.85E-04	4.74E-03	2.24E-02
1369	493877.33, 3860452.55	1.48E-02	1.26E-03	4.60E-03	2.48E-03	1.07E-04	4.70E-03	1.92E-06	0.02795114	8.75E-03	1.26E-03	4.60E-03	2.48E-03	1.07E-04	1.85E-04	4.70E-03	2.21E-02
1370	493927.33, 3860452.55	1.47E-02	1.22E-03	4.48E-03	2.47E-03	1.07E-04	4.65E-03	1.91E-06	0.02763013	8.65E-03	1.22E-03	4.48E-03	2.47E-03	1.07E-04	1.86E-04	4.65E-03	2.18E-02
1371	493977.33, 3860452.55	1.46E-02	1.20E-03	4.37E-03	2.47E-03	1.07E-04	4.60E-03	1.91E-06	0.02731606	8.56E-03	1.20E-03	4.37E-03	2.47E-03	1.07E-04	1.86E-04	4.60E-03	2.15E-02
1372	494027.33, 3860452.55	1.44E-02	1.18E-03	4.28E-03	2.46E-03	1.06E-04	4.56E-03	1.90E-06	0.027023	8.47E-03	1.18E-03	4.28E-03	2.46E-03	1.06E-04	1.85E-04	4.56E-03	2.13E-02
1373	493677.33, 3860502.55	1.51E-02	1.40E-03	4.93E-03	2.46E-03	1.05E-04	4.79E-03	1.90E-06	0.0287868	9.06E-03	1.40E-03	4.93E-03	2.46E-03	1.05E-04	1.80E-04	4.79E-03	2.29E-02
1374	493727.33, 3860502.55	1.49E-02	1.38E-03	4.82E-03	2.45E-03	1.04E-04	4.75E-03	1.89E-06	0.02843273	8.96E-03	1.38E-03	4.82E-03	2.45E-03	1.04E-04	1.80E-04	4.75E-03	2.26E-02
1375	493777.33, 3860502.55	1.48E-02	1.36E-03	4.70E-03	2.44E-03	1.04E-04	4.71E-03	1.88E-06	0.02808509	8.85E-03	1.36E-03	4.70E-03	2.44E-03	1.04E-04	1.80E-04	4.71E-03	2.23E-02
1376	493827.33, 3860502.55	1.46E-02	1.33E-03	4.59E-03	2.43E-03	1.04E-04	4.67E-03	1.87E-06	0.02776161	8.75E-03	1.33E-03	4.59E-03	2.43E-03	1.04E-04	1.80E-04	4.67E-03	2.21E-02
1377	493877.33, 3860502.55	1.45E-02	1.30E-03	4.48E-03	2.43E-03	1.04E-04	4.62E-03	1.86E-06	0.02743087	8.65E-03	1.30E-03	4.48E-03	2.43E-03	1.04E-04	1.81E-04	4.62E-03	2.18E-02
1378	493927.33, 3860502.55	1.44E-02	1.27E-03	4.37E-03	2.43E-03	1.04E-04	4.58E-03	1.86E-06	0.02712004	8.55E-03	1.27E-03	4.37E-03	2.43E-03	1.04E-04	1.81E-04	4.58E-03	2.15E-02
1379	493977.33, 3860502.55	1.42E-02	1.25E-03	4.28E-03	2.42E-03	1.04E-04	4.54E-03	1.85E-06	0.02681763	8.46E-03	1.25E-03	4.28E-03	2.42E-03	1.04E-04	1.81E-04	4.54E-03	2.12E-02
1380	494027.33, 3860502.55	1.41E-02	1.23E-03	4.18E-03	2.41E-03	1.04E-04	4.50E-03	1.84E-06	0.02653472	8.37E-03	1.23E-03	4.18E-03	2.41E-03	1.04E-04	1.81E-04	4.50E-03	2.10E-02
1381	493627.33, 3860552.55	1.50E-02	1.48E-03	4.89E-03	2.41E-03	1.02E-04	4.75E-03	1.85E-06	0.02859314	9.09E-03	1.48E-03	4.89E-03	2.41E-03	1.02E-04	1.74E-04	4.75E-03	2.29E-02
1382	493677.33, 3860552.55	1.48E-02	1.46E-03	4.77E-03	2.40E-03	1.02E-04	4.71E-03	1.84E-06	0.02823015	8.98E-03	1.46E-03	4.77E-03	2.40E-03	1.02E-04	1.75E-04	4.71E-03	2.26E-02
1383	493727.33, 3860552.55	1.46E-02	1.44E-03	4.66E-03	2.40E-03	1.02E-04	4.67E-03	1.83E-06	0.02789176	8.88E-03	1.44E-03	4.66E-03	2.40E-03	1.02E-04	1.75E-04	4.67E-03	2.23E-02
1384	493777.33, 3860552.55	1.45E-02	1.41E-03	4.55E-03	2.39E-03	1.02E-04	4.63E-03	1.82E-06	0.02755803	8.77E-03	1.41E-03	4.55E-03	2.39E-03	1.02E-04	1.75E-04	4.63E-03	2.20E-02
1385	493827.33, 3860552.55	1.43E-02	1.38E-03	4.45E-03	2.39E-03	1.02E-04	4.59E-03	1.82E-06	0.02724268	8.66E-03	1.38E-03	4.45E-03	2.39E-03	1.02E-04	1.76E-04	4.59E-03	2.17E-02
1386	493877.33, 3860552.55	1.42E-02	1.36E-03	4.35E-03	2.38E-03	1.02E-04	4.55E-03	1.81E-06	0.0269261	8.56E-03	1.36E-03	4.35E-03	2.38E-03	1.02E-04	1.76E-04	4.55E-03	2.15E-02
1387	493927.33, 3860552.55	1.41E-02	1.33E-03	4.25E-03	2.38E-03	1.02E-04	4.51E-03	1.80E-06	0.02663022	8.47E-03	1.33E-03	4.25E-03	2.38E-03	1.02E-04	1.77E-04	4.51E-03	2.12E-02
1388	493977.33, 3860552.55	1.39E-02	1.30E-03	4.16E-03	2.37E-03	1.02E-04	4.47E-03	1.80E-06	0.02634736	8.38E-03	1.30E-03	4.16E-03	2.37E-03	1.02E-04	1.77E-04	4.47E-03	2.09E-02
1389	494027.33, 3860552.55	1.38E-02	1.28E-03	4.07E-03	2.36E-03	1.02E-04	4.43E-03	1.79E-06	0.02606854	8.29E-03	1.28E-03	4.07E-03	2.36E-03	1.02E-04	1.77E-04	4.43E-03	2.07E-02
1390	493627.33, 3860602.55	1.47E-02	1.54E-03	4.71E-03	2.36E-03	9.97E-05	4.67E-03	1.80E-06	0.02804214	9.02E-03	1.54E-03	4.71E-03	2.36E-03	9.97E-05	1.70E-04	4.67E-03	2.26E-02
1391	493727.33, 3860602.55	1.43E-02	1.50E-03	4.48E-03	2.34E-03	9.92E-05	4.59E-03	1.77E-06	0.02735406	8.82E-03	1.50E-03	4.48E-03	2.34E-03	9.92E-05	1.70E-04	4.59E-03	2.20E-02
1392	493777.33, 3860602.55	1.42E-02	1.46E-03	4.39E-03	2.34E-03	9.94E-05	4.55E-03	1.77E-06	0.02703922	8.70E-03	1.46E-03	4.39E-03	2.34E-03	9.94E-05	1.71E-04	4.55E-03	2.17E-02
1393	493827.33, 3860602.55	1.41E-02	1.44E-03	4.29E-03	2.34E-03	9.93E-05	4.51E-03	1.76E-06	0.0267381	8.60E-03	1.44E-03	4.29E-03	2.34E-03	9.93E-05	1.71E-04	4.51E-03	2.14E-02
1394	493877.33, 3860602.55	1.39E-02	1.40E-03	4.21E-03	2.33E-03	9.94E-05	4.47E-03	1.76E-06	0.02645673	8.50E-03	1.40E-03	4.21E-03	2.33E-03	9.94E-05	1.72E-04	4.47E-03	2.12E-02

1395	493927.33, 3860602.55	1.38E-02	1.38E-03	4.12E-03	2.33E-03	9.94E-05	4.43E-03	1.75E-06	0.02616323	8.40E-03	1.38E-03	4.12E-03	2.33E-03	9.94E-05	1.72E-04	4.43E-03	2.09E-02
1396	493977.33, 3860602.55	1.37E-02	1.35E-03	4.03E-03	2.33E-03	9.94E-05	4.39E-03	1.74E-06	0.02588506	8.31E-03	1.35E-03	4.03E-03	2.33E-03	9.94E-05	1.73E-04	4.39E-03	2.07E-02
1397	494027.33, 3860602.55	1.36E-02	1.33E-03	3.95E-03	2.32E-03	9.92E-05	4.36E-03	1.74E-06	0.02561944	8.23E-03	1.33E-03	3.95E-03	2.32E-03	9.92E-05	1.73E-04	4.36E-03	2.05E-02
1398	493627.33, 3860652.55	1.44E-02	1.61E-03	4.51E-03	2.31E-03	9.72E-05	4.58E-03	1.74E-06	0.02751235	8.98E-03	1.61E-03	4.51E-03	2.31E-03	9.72E-05	1.65E-04	4.58E-03	2.22E-02
1399	493727.33, 3860652.55	1.41E-02	1.57E-03	4.29E-03	2.30E-03	9.67E-05	4.50E-03	1.72E-06	0.02685153	8.77E-03	1.57E-03	4.29E-03	2.30E-03	9.67E-05	1.65E-04	4.50E-03	2.17E-02
1400	493777.33, 3860652.55	1.40E-02	1.53E-03	4.21E-03	2.29E-03	9.69E-05	4.46E-03	1.71E-06	0.02654811	8.66E-03	1.53E-03	4.21E-03	2.29E-03	9.69E-05	1.66E-04	4.46E-03	2.14E-02
1401	493827.33, 3860652.55	1.38E-02	1.50E-03	4.13E-03	2.29E-03	9.70E-05	4.42E-03	1.71E-06	0.02625771	8.55E-03	1.50E-03	4.13E-03	2.29E-03	9.70E-05	1.67E-04	4.42E-03	2.12E-02
1402	493877.33, 3860652.55	1.37E-02	1.46E-03	4.05E-03	2.29E-03	9.71E-05	4.39E-03	1.71E-06	0.02597768	8.45E-03	1.46E-03	4.05E-03	2.29E-03	9.71E-05	1.68E-04	4.39E-03	2.09E-02
1403	493927.33, 3860652.55	1.36E-02	1.43E-03	3.97E-03	2.28E-03	9.71E-05	4.35E-03	1.70E-06	0.02570957	8.36E-03	1.43E-03	3.97E-03	2.28E-03	9.71E-05	1.68E-04	4.35E-03	2.07E-02
1404	493977.33, 3860652.55	1.35E-02	1.41E-03	3.89E-03	2.28E-03	9.71E-05	4.32E-03	1.69E-06	0.02545073	8.27E-03	1.41E-03	3.89E-03	2.28E-03	9.71E-05	1.69E-04	4.32E-03	2.04E-02
1405	494027.33, 3860652.55	1.33E-02	1.38E-03	3.82E-03	2.28E-03	9.71E-05	4.28E-03	1.69E-06	0.02519803	8.18E-03	1.38E-03	3.82E-03	2.28E-03	9.71E-05	1.69E-04	4.28E-03	2.02E-02
1406	494311.06, 3858401.99	1.72E-02	3.83E-04	9.87E-04	2.59E-03	1.30E-04	2.72E-03	2.29E-06	0.02403845	8.85E-03	3.83E-04	9.87E-04	2.59E-03	1.30E-04	2.32E-04	2.72E-03	1.59E-02
1407	494361.06, 3858401.99	1.70E-02	3.80E-04	9.75E-04	2.55E-03	1.28E-04	2.68E-03	2.23E-06	0.02366039	8.72E-03	3.80E-04	9.75E-04	2.55E-03	1.28E-04	2.28E-04	2.68E-03	1.56E-02
1408	494411.06, 3858401.99	1.68E-02	3.77E-04	9.68E-04	2.51E-03	1.26E-04	2.65E-03	2.19E-06	0.02338465	8.62E-03	3.77E-04	9.68E-04	2.51E-03	1.26E-04	2.25E-04	2.65E-03	1.55E-02
1409	494461.06, 3858401.99	1.67E-02	3.75E-04	9.66E-04	2.50E-03	1.26E-04	2.63E-03	2.16E-06	0.02324579	8.56E-03	3.75E-04	9.66E-04	2.50E-03	1.26E-04	2.25E-04	2.63E-03	1.54E-02
1410	494511.06, 3858401.99	1.64E-02	3.72E-04	9.58E-04	2.46E-03	1.24E-04	2.60E-03	2.12E-06	0.02295359	8.46E-03	3.72E-04	9.58E-04	2.46E-03	1.24E-04	2.22E-04	2.60E-03	1.52E-02
1411	494561.06, 3858401.99	1.63E-02	3.70E-04	9.56E-04	2.45E-03	1.23E-04	2.58E-03	2.09E-06	0.02279876	8.40E-03	3.70E-04	9.56E-04	2.45E-03	1.23E-04	2.21E-04	2.58E-03	1.51E-02
1412	494611.06, 3858401.99	1.61E-02	3.68E-04	9.47E-04	2.41E-03	1.21E-04	2.54E-03	2.05E-06	0.02246222	8.27E-03	3.68E-04	9.47E-04	2.41E-03	1.21E-04	2.18E-04	2.54E-03	1.49E-02
1413	494661.06, 3858401.99	1.59E-02	3.65E-04	9.40E-04	2.38E-03	1.20E-04	2.52E-03	2.02E-06	0.02221995	8.18E-03	3.65E-04	9.40E-04	2.38E-03	1.20E-04	2.15E-04	2.52E-03	1.47E-02
1414	494711.06, 3858401.99	1.56E-02	3.62E-04	9.28E-04	2.34E-03	1.18E-04	2.48E-03	1.97E-06	0.0218759	8.06E-03	3.62E-04	9.28E-04	2.34E-03	1.18E-04	2.12E-04	2.48E-03	1.45E-02
1415	494761.06, 3858401.99	1.55E-02	3.60E-04	9.23E-04	2.32E-03	1.17E-04	2.45E-03	1.94E-06	0.02167983	7.99E-03	3.60E-04	9.23E-04	2.32E-03	1.17E-04	2.10E-04	2.45E-03	1.44E-02
1416	494811.06, 3858401.99	1.53E-02	3.57E-04	9.14E-04	2.29E-03	1.15E-04	2.42E-03	1.90E-06	0.02140354	7.89E-03	3.57E-04	9.14E-04	2.29E-03	1.15E-04	2.07E-04	2.42E-03	1.42E-02
1417	494861.06, 3858401.99	1.51E-02	3.55E-04	9.07E-04	2.26E-03	1.13E-04	2.39E-03	1.86E-06	0.02116337	7.80E-03	3.55E-04	9.07E-04	2.26E-03	1.13E-04	2.05E-04	2.39E-03	1.40E-02
1418	494911.06, 3858401.99	1.50E-02	3.53E-04	8.99E-04	2.23E-03	1.12E-04	2.37E-03	1.83E-06	0.02092538	7.72E-03	3.53E-04	8.99E-04	2.23E-03	1.12E-04	2.02E-04	2.37E-03	1.39E-02
1419	494961.06, 3858401.99	1.48E-02	3.50E-04	8.90E-04	2.20E-03	1.10E-04	2.34E-03	1.80E-06	0.02068174	7.63E-03	3.50E-04	8.90E-04	2.20E-03	1.10E-04	2.00E-04	2.34E-03	1.37E-02
1420	495011.06, 3858401.99	1.46E-02	3.47E-04	8.79E-04	2.16E-03	1.08E-04	2.30E-03	1.76E-06	0.02037951	7.52E-03	3.47E-04	8.79E-04	2.16E-03	1.08E-04	1.97E-04	2.30E-03	1.35E-02
1421	495061.06, 3858401.99	1.44E-02	3.45E-04	8.70E-04	2.13E-03	1.07E-04	2.27E-03	1.72E-06	0.02013665	7.44E-03	3.45E-04	8.70E-04	2.13E-03	1.07E-04	1.94E-04	2.27E-03	1.34E-02
1422	495111.06, 3858401.99	1.41E-02	3.41E-04	8.53E-04	2.08E-03	1.04E-04	2.22E-03	1.67E-06	0.01970943	7.28E-03	3.41E-04	8.53E-04	2.08E-03	1.04E-04	1.89E-04	2.22E-03	1.31E-02
1423	495161.06, 3858401.99	1.40E-02	3.39E-04	8.50E-04	2.07E-03	1.04E-04	2.21E-03	1.65E-06	0.01959581	7.24E-03	3.39E-04	8.50E-04	2.07E-03	1.04E-04	1.88E-04	2.21E-03	1.30E-02
1424	495211.06, 3858401.99	1.38E-02	3.36E-04	8.35E-04	2.02E-03	1.01E-04	2.17E-03	1.61E-06	0.01922798	7.11E-03	3.36E-04	8.35E-04	2.02E-03	1.01E-04	1.84E-04	2.17E-03	1.28E-02
1425	495261.06, 3858401.99	1.36E-02	3.34E-04	8.27E-04	2.00E-03	9.99E-05	2.14E-03	1.58E-06	0.01900857	7.03E-03	3.34E-04	8.27E-04	2.00E-03	9.99E-05	1.82E-04	2.14E-03	1.26E-02
1426	495311.06, 3858401.99	1.35E-02	3.31E-04	8.18E-04	1.97E-03	9.85E-05	2.12E-03	1.55E-06	0.01878842	6.95E-03	3.31E-04	8.18E-04	1.97E-03	9.85E-05	1.80E-04	2.12E-03	1.25E-02
1427	495361.06, 3858401.99	1.33E-02	3.30E-04	8.12E-04	1.95E-03	9.75E-05	2.10E-03	1.53E-06	0.01862836	6.90E-03	3.30E-04	8.12E-04	1.95E-03	9.75E-05	1.78E-04	2.10E-03	1.24E-02
1428	495411.06, 3858401.99	1.33E-02	3.29E-04	8.09E-04	1.94E-03	9.70E-05	2.09E-03	1.51E-06	0.0185287	6.86E-03	3.29E-04	8.09E-04	1.94E-03	9.70E-05	1.77E-04	2.09E-03	1.23E-02
1429	495461.06, 3858401.99	1.32E-02	3.28E-04	8.06E-04	1.93E-03	9.67E-05	2.08E-03	1.50E-06	0.01845244	6.83E-03	3.28E-04	8.06E-04	1.93E-03	9.67E-05	1.77E-04	2.08E-03	1.22E-02
1430	495511.06, 3858401.99	1.31E-02	3.27E-04	8.03E-04	1.92E-03	9.62E-05	2.06E-03	1.48E-06	0.0183562	6.80E-03	3.27E-04	8.03E-04	1.92E-03	9.62E-05	1.76E-04	2.06E-03	1.22E-02
1431	495561.06, 3858401.99	1.30E-02	3.24E-04	7.93E-04	1.90E-03	9.50E-05	2.04E-03	1.46E-06	0.01818187	6.74E-03	3.24E-04	7.93E-04	1.90E-03	9.50E-05	1.75E-04	2.04E-03	1.21E-02
1432	495611.06, 3858401.99	1.30E-02	3.23E-04	7.90E-04	1.89E-03	9.45E-05	2.03E-03	1.44E-06	0.01810258	6.71E-03	3.23E-04	7.90E-04	1.89E-03	9.45E-05	1.75E-04	2.03E-03	1.20E-02
1433	495661.06, 3858401.99	1.30E-02	3.24E-04	7.96E-04	1.90E-03	9.51E-05	2.03E-03	1.44E-06	0.01812902	6.72E-03	3.24E-04	7.96E-04	1.90E-03	9.51E-05	1.75E-04	2.03E-03	1.20E-02
1434	494311.06, 3858451.99	1.76E-02	3.92E-04	1.04E-03	2.64E-03	1.33E-04	2.80E-03	2.33E-06	0.02461344	9.05E-03	3.92E-04	1.04E-03	2.64E-03	1.33E-04	2.36E-04	2.80E-03	1.63E-02
1435	494361.06, 3858451.99	1.74E-02	3.89E-04	1.03E-03	2.60E-03	1.31E-04	2.76E-03	2.28E-06	0.02429247	8.93E-03	3.89E-04	1.03E-03	2.60E-03	1.31E-04	2.33E-04	2.76E-03	1.61E-02
1436	494411.06, 3858451.99	1.72E-02	3.86E-04	1.02E-03	2.57E-03	1.29E-04	2.73E-03	2.24E-06	0.02401603	8.83E-03	3.86E-04	1.02E-03	2.57E-03	1.29E-04	2.30E-04	2.73E-03	1.59E-02
1437	494461.06, 3858451.99	1.70E-02	3.83E-04	1.02E-03	2.54E-03	1.28E-04	2.70E-03	2.20E-06	0.02377378	8.74E-03	3.83E-04	1.02E-03	2.54E-03	1.28E-04	2.28E-04	2.70E-03	1.57E-02
1438	494511.06, 3858451.99	1.69E-02	3.82E-04	1.01E-03	2.53E-03	1.27E-04	2.68E-03	2.17E-06	0.02360248	8.68E-03	3.82E-04	1.01E-03	2.53E-03	1.27E-04	2.27E-04	2.68E-03	1.56E-02
1439	494561.06, 3858451.99	1.67E-02	3.78E-04	1.00E-03	2.49E-03	1.25E-04	2.64E-03	2.12E-06	0.02330108	8.57E-03	3.78E-04	1.00E-03	2.49E-03	1.25E-04	2.24E-04	2.64E-03	1.54E-02
1440	494611.06, 3858451.99	1.65E-02	3.76E-04	9.98E-04	2.46E-03	1.24E-04	2.61E-03	2.09E-06	0.02306385	8.48E-03	3.76E-04	9.98E-04	2.46E-03	1.24E-04	2.22E-04	2.61E-03	1.53E-02
1441	494661.06, 3858451.99	1.63E-02	3.73E-04	9.91E-04	2.43E-03	1.23E-04	2.59E-03	2.05E-06	0.02280924	8.39E-03	3.73E-04	9.91E-04	2.43E-03	1.23E-04	2.20E-04	2.59E-03	1.51E-02
1442	494711.06, 3858451.99	1.61E-02	3.70E-04	9.80E-04	2.40E-03	1.21E-04	2.55E-03	2.01E-06	0.02250506	8.28E-03	3.70E-04	9.80E-04	2.40E-03	1.21E-04	2.16E-04	2.55E-03	1.49E-02
1443	494761.06, 3858451.99	1.59E-02	3.68E-04	9.69E-04	2.36E-03	1.19E-04	2.51E-03	1.97E-06	0.02220345	8.18E-03	3.68E-04	9.69E-04	2.36E-03	1.19E-04	2.13E-04	2.51E-03	1.47E-02
1444	494811.06, 3858451.99	1.56E-02	3.65E-04	9.61E-04	2.33E-03	1.17E-04	2.48E-03	1.93E-06	0.02189086	8.06E-03	3.65E-04	9.61E-04	2.33E-03	1.17E-04	2.11E-04	2.48E-03	1.45E-02
1445	494861.06, 3858451.99	1.54E-02	3.62E-04	9.51E-04	2.30E-03	1.15E-04	2.45E-03	1.89E-06	0.02160507	7.95E-03	3.62E-04	9.51E-04	2.30E-03	1.15E-04	2.08E-04	2.45E-03	1.43E-02
1446	494911.06, 3858451.99	1.52E-02	3.58E-04	9.37E-04	2.26E-03	1.13E-04	2.41E-03	1.84E-06	0.02130185	7.85E-03	3.58E-04	9.37E-04	2.26E-03	1.13E-04	2.04E-04	2.41E-03	1.41E-02
1447	494961.06, 3858451.99	1.50E-02	3.56E-04	9.28E-04	2.22E-03	1.12E-04	2.38E-03	1.81E-06	0.0209811	7.73E-03	3.56E-04	9.28E-04	2.22E-03	1.12E-04	2.01E-04	2.38E-03	1.39E-02
1448	495011.06, 3858451.99	1.48E-02	3.53E-04	9.15E-04	2.18E-03	1.09E-04	2.34E-03	1.77E-06	0.02065625	7.61E-03	3.53E-04	9.15E-04	2.18E-03	1.09E-04	1.98E-04	2.34E-03	1.37E-02

1449	495061.06, 3858451.99	1.46E-02	3.51E-04	9.10E-04	2.16E-03	1.09E-04	2.32E-03	1.74E-06	0.02049494	7.56E-03	3.51E-04	9.10E-04	2.16E-03	1.09E-04	1.96E-04	2.32E-03	1.36E-02
1450	495111.06, 3858451.99	1.44E-02	3.48E-04	8.97E-04	2.12E-03	1.07E-04	2.28E-03	1.70E-06	0.02017382	7.44E-03	3.48E-04	8.97E-04	2.12E-03	1.07E-04	1.93E-04	2.28E-03	1.34E-02
1451	495161.06, 3858451.99	1.42E-02	3.44E-04	8.83E-04	2.08E-03	1.04E-04	2.24E-03	1.66E-06	0.0198272	7.32E-03	3.44E-04	8.83E-04	2.08E-03	1.04E-04	1.89E-04	2.24E-03	1.32E-02
1452	495211.06, 3858451.99	1.39E-02	3.41E-04	8.70E-04	2.04E-03	1.02E-04	2.21E-03	1.62E-06	0.01950831	7.21E-03	3.41E-04	8.70E-04	2.04E-03	1.02E-04	1.86E-04	2.21E-03	1.30E-02
1453	495261.06, 3858451.99	1.38E-02	3.39E-04	8.61E-04	2.02E-03	1.01E-04	2.18E-03	1.59E-06	0.01930189	7.13E-03	3.39E-04	8.61E-04	2.02E-03	1.01E-04	1.84E-04	2.18E-03	1.28E-02
1454	495311.06, 3858451.99	1.37E-02	3.37E-04	8.54E-04	2.00E-03	1.00E-04	2.16E-03	1.57E-06	0.01912062	7.07E-03	3.37E-04	8.54E-04	2.00E-03	1.00E-04	1.82E-04	2.16E-03	1.27E-02
1455	495361.06, 3858451.99	1.36E-02	3.35E-04	8.48E-04	1.98E-03	9.91E-05	2.14E-03	1.55E-06	0.01896267	7.01E-03	3.35E-04	8.48E-04	1.98E-03	9.91E-05	1.80E-04	2.14E-03	1.26E-02
1456	495411.06, 3858451.99	1.35E-02	3.34E-04	8.45E-04	1.97E-03	9.87E-05	2.13E-03	1.53E-06	0.01886986	6.98E-03	3.34E-04	8.45E-04	1.97E-03	9.87E-05	1.80E-04	2.13E-03	1.25E-02
1457	495461.06, 3858451.99	1.34E-02	3.34E-04	8.43E-04	1.96E-03	9.84E-05	2.12E-03	1.52E-06	0.01880937	6.95E-03	3.34E-04	8.43E-04	1.96E-03	9.84E-05	1.80E-04	2.12E-03	1.25E-02
1458	495511.06, 3858451.99	1.33E-02	3.32E-04	8.36E-04	1.94E-03	9.73E-05	2.10E-03	1.49E-06	0.01863185	6.89E-03	3.32E-04	8.36E-04	1.94E-03	9.73E-05	1.78E-04	2.10E-03	1.24E-02
1459	495561.06, 3858451.99	1.33E-02	3.31E-04	8.37E-04	1.94E-03	9.75E-05	2.10E-03	1.49E-06	0.01861845	6.88E-03	3.31E-04	8.37E-04	1.94E-03	9.75E-05	1.78E-04	2.10E-03	1.24E-02
1460	495611.06, 3858451.99	1.32E-02	3.29E-04	8.28E-04	1.92E-03	9.62E-05	2.07E-03	1.46E-06	0.01841795	6.81E-03	3.29E-04	8.28E-04	1.92E-03	9.62E-05	1.76E-04	2.07E-03	1.22E-02
1461	495661.06, 3858451.99	1.31E-02	3.29E-04	8.26E-04	1.92E-03	9.61E-05	2.07E-03	1.45E-06	0.0183659	6.79E-03	3.29E-04	8.26E-04	1.92E-03	9.61E-05	1.76E-04	2.07E-03	1.22E-02
1462	494311.06, 3858501.99	1.78E-02	4.00E-04	1.08E-03	2.65E-03	1.33E-04	2.84E-03	2.32E-06	0.02486416	9.13E-03	4.00E-04	1.08E-03	2.65E-03	1.33E-04	2.36E-04	2.84E-03	1.65E-02
1463	494361.06, 3858501.99	1.76E-02	3.97E-04	1.08E-03	2.62E-03	1.32E-04	2.81E-03	2.29E-06	0.02462959	9.05E-03	3.97E-04	1.08E-03	2.62E-03	1.32E-04	2.34E-04	2.81E-03	1.63E-02
1464	494411.06, 3858501.99	1.74E-02	3.94E-04	1.07E-03	2.59E-03	1.30E-04	2.78E-03	2.25E-06	0.02436908	8.95E-03	3.94E-04	1.07E-03	2.59E-03	1.30E-04	2.31E-04	2.78E-03	1.62E-02
1465	494461.06, 3858501.99	1.73E-02	3.92E-04	1.07E-03	2.58E-03	1.30E-04	2.76E-03	2.22E-06	0.02417756	8.88E-03	3.92E-04	1.07E-03	2.58E-03	1.30E-04	2.30E-04	2.76E-03	1.60E-02
1466	494511.06, 3858501.99	1.70E-02	3.88E-04	1.05E-03	2.54E-03	1.28E-04	2.72E-03	2.17E-06	0.023853	8.76E-03	3.88E-04	1.05E-03	2.54E-03	1.28E-04	2.27E-04	2.72E-03	1.58E-02
1467	494561.06, 3858501.99	1.70E-02	3.87E-04	1.06E-03	2.54E-03	1.28E-04	2.72E-03	2.16E-06	0.02382424	8.75E-03	3.87E-04	1.06E-03	2.54E-03	1.28E-04	2.28E-04	2.72E-03	1.58E-02
1468	494611.06, 3858501.99	1.68E-02	3.84E-04	1.05E-03	2.50E-03	1.26E-04	2.68E-03	2.12E-06	0.02354052	8.65E-03	3.84E-04	1.05E-03	2.50E-03	1.26E-04	2.25E-04	2.68E-03	1.56E-02
1469	494661.06, 3858501.99	1.67E-02	3.82E-04	1.04E-03	2.48E-03	1.25E-04	2.66E-03	2.09E-06	0.02334106	8.57E-03	3.82E-04	1.04E-03	2.48E-03	1.25E-04	2.23E-04	2.66E-03	1.55E-02
1470	494711.06, 3858501.99	1.64E-02	3.78E-04	1.03E-03	2.44E-03	1.23E-04	2.62E-03	2.04E-06	0.02301956	8.46E-03	3.78E-04	1.03E-03	2.44E-03	1.23E-04	2.20E-04	2.62E-03	1.53E-02
1471	494761.06, 3858501.99	1.62E-02	3.75E-04	1.02E-03	2.40E-03	1.21E-04	2.58E-03	2.00E-06	0.02267195	8.33E-03	3.75E-04	1.02E-03	2.40E-03	1.21E-04	2.16E-04	2.58E-03	1.50E-02
1472	494811.06, 3858501.99	1.59E-02	3.72E-04	1.01E-03	2.36E-03	1.19E-04	2.54E-03	1.95E-06	0.02233296	8.21E-03	3.72E-04	1.01E-03	2.36E-03	1.19E-04	2.13E-04	2.54E-03	1.48E-02
1473	494861.06, 3858501.99	1.58E-02	3.69E-04	9.97E-04	2.33E-03	1.17E-04	2.51E-03	1.92E-06	0.02210728	8.13E-03	3.69E-04	9.97E-04	2.33E-03	1.17E-04	2.11E-04	2.51E-03	1.47E-02
1474	494911.06, 3858501.99	1.54E-02	3.65E-04	9.80E-04	2.28E-03	1.15E-04	2.46E-03	1.86E-06	0.02162507	7.95E-03	3.65E-04	9.80E-04	2.28E-03	1.15E-04	2.06E-04	2.46E-03	1.44E-02
1475	494961.06, 3858501.99	1.53E-02	3.63E-04	9.71E-04	2.25E-03	1.13E-04	2.43E-03	1.83E-06	0.02138238	7.87E-03	3.63E-04	9.71E-04	2.25E-03	1.13E-04	2.04E-04	2.43E-03	1.42E-02
1476	495011.06, 3858501.99	1.50E-02	3.59E-04	9.56E-04	2.21E-03	1.11E-04	2.39E-03	1.78E-06	0.02101518	7.74E-03	3.59E-04	9.56E-04	2.21E-03	1.11E-04	2.00E-04	2.39E-03	1.40E-02
1477	495061.06, 3858501.99	1.49E-02	3.57E-04	9.50E-04	2.19E-03	1.10E-04	2.36E-03	1.76E-06	0.02083566	7.67E-03	3.57E-04	9.50E-04	2.19E-03	1.10E-04	1.98E-04	2.36E-03	1.38E-02
1478	495111.06, 3858501.99	1.45E-02	3.53E-04	9.31E-04	2.13E-03	1.07E-04	2.31E-03	1.71E-06	0.02038887	7.51E-03	3.53E-04	9.31E-04	2.13E-03	1.07E-04	1.93E-04	2.31E-03	1.35E-02
1479	495161.06, 3858501.99	1.44E-02	3.50E-04	9.18E-04	2.10E-03	1.05E-04	2.28E-03	1.67E-06	0.02010357	7.41E-03	3.50E-04	9.18E-04	2.10E-03	1.05E-04	1.90E-04	2.28E-03	1.34E-02
1480	495211.06, 3858501.99	1.41E-02	3.47E-04	9.06E-04	2.06E-03	1.03E-04	2.24E-03	1.63E-06	0.01980457	7.31E-03	3.47E-04	9.06E-04	2.06E-03	1.03E-04	1.87E-04	2.24E-03	1.32E-02
1481	495261.06, 3858501.99	1.40E-02	3.45E-04	8.98E-04	2.04E-03	1.02E-04	2.22E-03	1.61E-06	0.01960121	7.23E-03	3.45E-04	8.98E-04	2.04E-03	1.02E-04	1.85E-04	2.22E-03	1.30E-02
1482	495311.06, 3858501.99	1.39E-02	3.43E-04	8.92E-04	2.03E-03	1.01E-04	2.20E-03	1.59E-06	0.01946298	7.18E-03	3.43E-04	8.92E-04	2.03E-03	1.01E-04	1.84E-04	2.20E-03	1.29E-02
1483	495361.06, 3858501.99	1.38E-02	3.41E-04	8.88E-04	2.01E-03	1.01E-04	2.19E-03	1.57E-06	0.0193276	7.13E-03	3.41E-04	8.88E-04	2.01E-03	1.01E-04	1.83E-04	2.19E-03	1.28E-02
1484	495411.06, 3858501.99	1.37E-02	3.40E-04	8.84E-04	2.00E-03	1.00E-04	2.17E-03	1.55E-06	0.019229	7.10E-03	3.40E-04	8.84E-04	2.00E-03	1.00E-04	1.83E-04	2.17E-03	1.28E-02
1485	495461.06, 3858501.99	1.37E-02	3.39E-04	8.81E-04	1.99E-03	9.99E-05	2.16E-03	1.54E-06	0.0191352	7.06E-03	3.39E-04	8.81E-04	1.99E-03	9.99E-05	1.82E-04	2.16E-03	1.27E-02
1486	495511.06, 3858501.99	1.36E-02	3.38E-04	8.75E-04	1.98E-03	9.93E-05	2.15E-03	1.52E-06	0.01901478	7.02E-03	3.38E-04	8.75E-04	1.98E-03	9.93E-05	1.81E-04	2.15E-03	1.26E-02
1487	495561.06, 3858501.99	1.36E-02	3.38E-04	8.75E-04	1.98E-03	9.94E-05	2.14E-03	1.51E-06	0.01900232	7.02E-03	3.38E-04	8.75E-04	1.98E-03	9.94E-05	1.81E-04	2.14E-03	1.26E-02
1488	495611.06, 3858501.99	1.35E-02	3.35E-04	8.64E-04	1.95E-03	9.82E-05	2.13E-03	1.49E-06	0.01883019	6.96E-03	3.35E-04	8.64E-04	1.95E-03	9.82E-05	1.80E-04	2.13E-03	1.25E-02
1489	495661.06, 3858501.99	1.34E-02	3.35E-04	8.65E-04	1.95E-03	9.81E-05	2.11E-03	1.48E-06	0.01876844	6.93E-03	3.35E-04	8.65E-04	1.95E-03	9.81E-05	1.80E-04	2.11E-03	1.25E-02
1490	494311.06, 3858551.99	1.77E-02	4.02E-04	1.10E-03	2.60E-03	1.31E-04	2.84E-03	2.27E-06	0.02479814	9.12E-03	4.02E-04	1.10E-03	2.60E-03	1.31E-04	2.31E-04	2.84E-03	1.64E-02
1491	494361.06, 3858551.99	1.77E-02	4.02E-04	1.11E-03	2.62E-03	1.32E-04	2.85E-03	2.27E-06	0.02482984	9.12E-03	4.02E-04	1.11E-03	2.62E-03	1.32E-04	2.33E-04	2.85E-03	1.65E-02
1492	494411.06, 3858551.99	1.77E-02	4.03E-04	1.12E-03	2.63E-03	1.32E-04	2.85E-03	2.27E-06	0.02482683	9.10E-03	4.03E-04	1.12E-03	2.63E-03	1.32E-04	2.34E-04	2.85E-03	1.65E-02
1493	494461.06, 3858551.99	1.76E-02	4.01E-04	1.12E-03	2.62E-03	1.32E-04	2.84E-03	2.25E-06	0.02471449	9.06E-03	4.01E-04	1.12E-03	2.62E-03	1.32E-04	2.34E-04	2.84E-03	1.64E-02
1494	494511.06, 3858551.99	1.74E-02	3.99E-04	1.12E-03	2.60E-03	1.31E-04	2.81E-03	2.22E-06	0.02449933	8.98E-03	3.99E-04	1.12E-03	2.60E-03	1.31E-04	2.32E-04	2.81E-03	1.63E-02
1495	494561.06, 3858551.99	1.73E-02	3.97E-04	1.11E-03	2.58E-03	1.30E-04	2.79E-03	2.19E-06	0.02432032	8.91E-03	3.97E-04	1.11E-03	2.58E-03	1.30E-04	2.31E-04	2.79E-03	1.62E-02
1496	494611.06, 3858551.99	1.71E-02	3.94E-04	1.10E-03	2.55E-03	1.29E-04	2.76E-03	2.16E-06	0.02408073	8.82E-03	3.94E-04	1.10E-03	2.55E-03	1.29E-04	2.29E-04	2.76E-03	1.60E-02
1497	494661.06, 3858551.99	1.70E-02	3.92E-04	1.10E-03	2.53E-03	1.27E-04	2.73E-03	2.12E-06	0.02386136	8.74E-03	3.92E-04	1.10E-03	2.53E-03	1.27E-04	2.27E-04	2.73E-03	1.59E-02
1498	494711.06, 3858551.99	1.67E-02	3.87E-04	1.08E-03	2.49E-03	1.25E-04	2.69E-03	2.08E-06	0.02351009	8.62E-03	3.87E-04	1.08E-03	2.49E-03	1.25E-04	2.24E-04	2.69E-03	1.56E-02
1499	494761.06, 3858551.99	1.65E-02	3.83E-04	1.07E-03	2.45E-03	1.23E-04	2.65E-03	2.03E-06	0.02315974	8.50E-03	3.83E-04	1.07E-03	2.45E-03	1.23E-04	2.20E-04	2.65E-03	1.54E-02
1500	494811.06, 3858551.99	1.63E-02	3.80E-04	1.06E-03	2.41E-03	1.21E-04	2.61E-03	1.99E-06	0.02287589	8.39E-03	3.80E-04	1.06E-03	2.41E-03	1.21E-04	2.17E-04	2.61E-03	1.52E-02
1501	494861.06, 3858551.99	1.60E-02	3.77E-04	1.04E-03	2.37E-03	1.19E-04	2.57E-03	1.94E-06	0.02252959	8.27E-03	3.77E-04	1.04E-03	2.37E-03	1.19E-04	2.14E-04	2.57E-03	1.50E-02
1502	494911.06, 3858551.99	1.58E-02	3.73E-04	1.03E-03	2.32E-03	1.17E-04	2.52E-03	1.89E-06	0.022154	8.14E-03	3.73E-04	1.03E-03	2.32E-03	1.17E-04	2.10E-04	2.52E-03	1.47E-02

1503	494961.06, 3858551.99	1.56E-02	3.70E-04	1.02E-03	2.29E-03	1.15E-04	2.48E-03	1.85E-06	0.02183193	8.03E-03	3.70E-04	1.02E-03	2.29E-03	1.15E-04	2.06E-04	2.48E-03	1.45E-02
1504	495011.06, 3858551.99	1.53E-02	3.66E-04	1.00E-03	2.24E-03	1.13E-04	2.44E-03	1.80E-06	0.02144331	7.89E-03	3.66E-04	1.00E-03	2.24E-03	1.13E-04	2.02E-04	2.44E-03	1.42E-02
1505	495061.06, 3858551.99	1.51E-02	3.63E-04	9.89E-04	2.21E-03	1.11E-04	2.41E-03	1.77E-06	0.02114477	7.77E-03	3.63E-04	9.89E-04	2.21E-03	1.11E-04	2.00E-04	2.41E-03	1.41E-02
1506	495111.06, 3858551.99	1.47E-02	3.58E-04	9.69E-04	2.16E-03	1.08E-04	2.35E-03	1.72E-06	0.02069142	7.62E-03	3.58E-04	9.69E-04	2.16E-03	1.08E-04	1.95E-04	2.35E-03	1.38E-02
1507	495161.06, 3858551.99	1.45E-02	3.55E-04	9.57E-04	2.12E-03	1.06E-04	2.32E-03	1.68E-06	0.02038796	7.51E-03	3.55E-04	9.57E-04	2.12E-03	1.06E-04	1.91E-04	2.32E-03	1.36E-02
1508	495211.06, 3858551.99	1.43E-02	3.53E-04	9.45E-04	2.09E-03	1.05E-04	2.29E-03	1.65E-06	0.02012445	7.41E-03	3.53E-04	9.45E-04	2.09E-03	1.05E-04	1.89E-04	2.29E-03	1.34E-02
1509	495261.06, 3858551.99	1.42E-02	3.50E-04	9.37E-04	2.07E-03	1.04E-04	2.26E-03	1.62E-06	0.01992458	7.34E-03	3.50E-04	9.37E-04	2.07E-03	1.04E-04	1.87E-04	2.26E-03	1.32E-02
1510	495311.06, 3858551.99	1.41E-02	3.49E-04	9.32E-04	2.06E-03	1.03E-04	2.25E-03	1.61E-06	0.01981047	7.30E-03	3.49E-04	9.32E-04	2.06E-03	1.03E-04	1.86E-04	2.25E-03	1.32E-02
1511	495361.06, 3858551.99	1.40E-02	3.48E-04	9.27E-04	2.04E-03	1.02E-04	2.23E-03	1.59E-06	0.0196884	7.26E-03	3.48E-04	9.27E-04	2.04E-03	1.02E-04	1.85E-04	2.23E-03	1.31E-02
1512	495411.06, 3858551.99	1.40E-02	3.47E-04	9.24E-04	2.04E-03	1.02E-04	2.22E-03	1.57E-06	0.01961349	7.23E-03	3.47E-04	9.24E-04	2.04E-03	1.02E-04	1.85E-04	2.22E-03	1.30E-02
1513	495461.06, 3858551.99	1.39E-02	3.45E-04	9.20E-04	2.02E-03	1.02E-04	2.21E-03	1.56E-06	0.01949837	7.19E-03	3.45E-04	9.20E-04	2.02E-03	1.02E-04	1.84E-04	2.21E-03	1.30E-02
1514	495511.06, 3858551.99	1.38E-02	3.44E-04	9.17E-04	2.02E-03	1.01E-04	2.20E-03	1.55E-06	0.01942662	7.16E-03	3.44E-04	9.17E-04	2.02E-03	1.01E-04	1.84E-04	2.20E-03	1.29E-02
1515	495561.06, 3858551.99	1.38E-02	3.43E-04	9.12E-04	2.01E-03	1.01E-04	2.19E-03	1.53E-06	0.01931248	7.12E-03	3.43E-04	9.12E-04	2.01E-03	1.01E-04	1.84E-04	2.19E-03	1.29E-02
1516	495611.06, 3858551.99	1.37E-02	3.42E-04	9.07E-04	1.99E-03	1.00E-04	2.17E-03	1.51E-06	0.01919493	7.08E-03	3.42E-04	9.07E-04	1.99E-03	1.00E-04	1.83E-04	2.17E-03	1.28E-02
1517	495661.06, 3858551.99	1.36E-02	3.40E-04	9.00E-04	1.98E-03	9.94E-05	2.15E-03	1.49E-06	0.01905757	7.03E-03	3.40E-04	9.00E-04	1.98E-03	9.94E-05	1.81E-04	2.15E-03	1.27E-02
1518	494311.06, 3858601.99	1.72E-02	4.01E-04	1.11E-03	2.48E-03	1.24E-04	2.75E-03	2.15E-06	0.02402415	8.84E-03	4.01E-04	1.11E-03	2.48E-03	1.24E-04	2.17E-04	2.75E-03	1.59E-02
1519	494361.06, 3858601.99	1.77E-02	4.07E-04	1.15E-03	2.60E-03	1.30E-04	2.86E-03	2.24E-06	0.02488766	9.13E-03	4.07E-04	1.15E-03	2.60E-03	1.30E-04	2.30E-04	2.86E-03	1.65E-02
1520	494411.06, 3858601.99	1.80E-02	4.13E-04	1.18E-03	2.69E-03	1.35E-04	2.93E-03	2.31E-06	0.02539402	9.29E-03	4.13E-04	1.18E-03	2.69E-03	1.35E-04	2.38E-04	2.93E-03	1.69E-02
1521	494461.06, 3858601.99	1.79E-02	4.11E-04	1.18E-03	2.68E-03	1.34E-04	2.92E-03	2.29E-06	0.02524787	9.23E-03	4.11E-04	1.18E-03	2.68E-03	1.34E-04	2.38E-04	2.92E-03	1.68E-02
1522	494511.06, 3858601.99	1.77E-02	4.07E-04	1.17E-03	2.64E-03	1.33E-04	2.88E-03	2.24E-06	0.02497432	9.14E-03	4.07E-04	1.17E-03	2.64E-03	1.33E-04	2.35E-04	2.88E-03	1.66E-02
1523	494561.06, 3858601.99	1.77E-02	4.07E-04	1.17E-03	2.64E-03	1.33E-04	2.88E-03	2.23E-06	0.02488186	9.09E-03	4.07E-04	1.17E-03	2.64E-03	1.33E-04	2.36E-04	2.88E-03	1.66E-02
1524	494611.06, 3858601.99	1.74E-02	4.03E-04	1.16E-03	2.60E-03	1.31E-04	2.84E-03	2.19E-06	0.02457486	8.98E-03	4.03E-04	1.16E-03	2.60E-03	1.31E-04	2.33E-04	2.84E-03	1.63E-02
1525	494661.06, 3858601.99	1.73E-02	4.00E-04	1.15E-03	2.58E-03	1.30E-04	2.81E-03	2.16E-06	0.0243316	8.89E-03	4.00E-04	1.15E-03	2.58E-03	1.30E-04	2.31E-04	2.81E-03	1.62E-02
1526	494711.06, 3858601.99	1.70E-02	3.97E-04	1.14E-03	2.54E-03	1.28E-04	2.76E-03	2.11E-06	0.02400086	8.78E-03	3.97E-04	1.14E-03	2.54E-03	1.28E-04	2.27E-04	2.76E-03	1.60E-02
1527	494761.06, 3858601.99	1.68E-02	3.93E-04	1.12E-03	2.50E-03	1.26E-04	2.72E-03	2.06E-06	0.02366659	8.66E-03	3.93E-04	1.12E-03	2.50E-03	1.26E-04	2.24E-04	2.72E-03	1.57E-02
1528	494811.06, 3858601.99	1.65E-02	3.88E-04	1.10E-03	2.44E-03	1.23E-04	2.66E-03	2.00E-06	0.02321602	8.51E-03	3.88E-04	1.10E-03	2.44E-03	1.23E-04	2.19E-04	2.66E-03	1.54E-02
1529	494861.06, 3858601.99	1.63E-02	3.85E-04	1.09E-03	2.40E-03	1.21E-04	2.63E-03	1.97E-06	0.02293312	8.40E-03	3.85E-04	1.09E-03	2.40E-03	1.21E-04	2.16E-04	2.63E-03	1.53E-02
1530	494911.06, 3858601.99	1.60E-02	3.80E-04	1.07E-03	2.35E-03	1.18E-04	2.57E-03	1.91E-06	0.02249689	8.25E-03	3.80E-04	1.07E-03	2.35E-03	1.18E-04	2.11E-04	2.57E-03	1.50E-02
1531	494961.06, 3858601.99	1.58E-02	3.76E-04	1.06E-03	2.31E-03	1.16E-04	2.53E-03	1.87E-06	0.02218285	8.14E-03	3.76E-04	1.06E-03	2.31E-03	1.16E-04	2.08E-04	2.53E-03	1.47E-02
1532	495011.06, 3858601.99	1.56E-02	3.73E-04	1.05E-03	2.27E-03	1.14E-04	2.49E-03	1.83E-06	0.02185457	8.03E-03	3.73E-04	1.05E-03	2.27E-03	1.14E-04	2.05E-04	2.49E-03	1.45E-02
1533	495061.06, 3858601.99	1.53E-02	3.69E-04	1.03E-03	2.23E-03	1.12E-04	2.45E-03	1.78E-06	0.02150906	7.91E-03	3.69E-04	1.03E-03	2.23E-03	1.12E-04	2.01E-04	2.45E-03	1.43E-02
1534	495111.06, 3858601.99	1.49E-02	3.64E-04	1.01E-03	2.17E-03	1.09E-04	2.39E-03	1.73E-06	0.02097835	7.71E-03	3.64E-04	1.01E-03	2.17E-03	1.09E-04	1.96E-04	2.39E-03	1.40E-02
1535	495161.06, 3858601.99	1.47E-02	3.62E-04	9.96E-04	2.14E-03	1.08E-04	2.36E-03	1.69E-06	0.02069536	7.61E-03	3.62E-04	9.96E-04	2.14E-03	1.08E-04	1.93E-04	2.36E-03	1.38E-02
1536	495211.06, 3858601.99	1.46E-02	3.59E-04	9.88E-04	2.12E-03	1.06E-04	2.34E-03	1.67E-06	0.02051114	7.55E-03	3.59E-04	9.88E-04	2.12E-03	1.06E-04	1.91E-04	2.34E-03	1.36E-02
1537	495261.06, 3858601.99	1.44E-02	3.57E-04	9.78E-04	2.10E-03	1.05E-04	2.31E-03	1.64E-06	0.02029234	7.47E-03	3.57E-04	9.78E-04	2.10E-03	1.05E-04	1.89E-04	2.31E-03	1.35E-02
1538	495311.06, 3858601.99	1.43E-02	3.55E-04	9.71E-04	2.08E-03	1.04E-04	2.29E-03	1.62E-06	0.02013296	7.41E-03	3.55E-04	9.71E-04	2.08E-03	1.04E-04	1.88E-04	2.29E-03	1.34E-02
1539	495361.06, 3858601.99	1.42E-02	3.54E-04	9.67E-04	2.07E-03	1.04E-04	2.28E-03	1.61E-06	0.02001941	7.37E-03	3.54E-04	9.67E-04	2.07E-03	1.04E-04	1.87E-04	2.28E-03	1.33E-02
1540	495411.06, 3858601.99	1.42E-02	3.53E-04	9.63E-04	2.06E-03	1.03E-04	2.26E-03	1.59E-06	0.0199226	7.33E-03	3.53E-04	9.63E-04	2.06E-03	1.03E-04	1.87E-04	2.26E-03	1.33E-02
1541	495461.06, 3858601.99	1.41E-02	3.51E-04	9.59E-04	2.05E-03	1.03E-04	2.25E-03	1.58E-06	0.0198289	7.30E-03	3.51E-04	9.59E-04	2.05E-03	1.03E-04	1.87E-04	2.25E-03	1.32E-02
1542	495511.06, 3858601.99	1.40E-02	3.50E-04	9.51E-04	2.03E-03	1.02E-04	2.23E-03	1.56E-06	0.01967032	7.24E-03	3.50E-04	9.51E-04	2.03E-03	1.02E-04	1.85E-04	2.23E-03	1.31E-02
1543	495561.06, 3858601.99	1.40E-02	3.49E-04	9.49E-04	2.03E-03	1.02E-04	2.23E-03	1.55E-06	0.01961819	7.22E-03	3.49E-04	9.49E-04	2.03E-03	1.02E-04	1.85E-04	2.23E-03	1.31E-02
1544	495611.06, 3858601.99	1.38E-02	3.47E-04	9.40E-04	2.01E-03	1.01E-04	2.20E-03	1.52E-06	0.01942593	7.15E-03	3.47E-04	9.40E-04	2.01E-03	1.01E-04	1.83E-04	2.20E-03	1.29E-02
1545	495661.06, 3858601.99	1.38E-02	3.46E-04	9.37E-04	2.00E-03	1.01E-04	2.19E-03	1.51E-06	0.01935274	7.13E-03	3.46E-04	9.37E-04	2.00E-03	1.01E-04	1.83E-04	2.19E-03	1.29E-02
1546	494311.06, 3858651.99	1.72E-02	4.06E-04	1.14E-03	2.46E-03	1.22E-04	2.76E-03	2.11E-06	0.02403933	8.85E-03	4.06E-04	1.14E-03	2.46E-03	1.22E-04	2.13E-04	2.76E-03	1.59E-02
1547	494361.06, 3858651.99	1.77E-02	4.12E-04	1.18E-03	2.57E-03	1.29E-04	2.87E-03	2.20E-06	0.02488471	9.13E-03	4.12E-04	1.18E-03	2.57E-03	1.29E-04	2.26E-04	2.87E-03	1.65E-02
1548	494411.06, 3858651.99	1.83E-02	4.20E-04	1.23E-03	2.70E-03	1.36E-04	3.00E-03	2.32E-06	0.02574813	9.40E-03	4.20E-04	1.23E-03	2.70E-03	1.36E-04	2.40E-04	3.00E-03	1.71E-02
1549	494461.06, 3858651.99	1.82E-02	4.21E-04	1.24E-03	2.72E-03	1.36E-04	2.99E-03	2.32E-06	0.02569601	9.36E-03	4.21E-04	1.24E-03	2.72E-03	1.36E-04	2.41E-04	2.99E-03	1.71E-02
1550	494511.06, 3858651.99	1.80E-02	4.18E-04	1.24E-03	2.70E-03	1.35E-04	2.97E-03	2.29E-06	0.02547738	9.28E-03	4.18E-04	1.24E-03	2.70E-03	1.35E-04	2.39E-04	2.97E-03	1.70E-02
1551	494561.06, 3858651.99	1.79E-02	4.16E-04	1.23E-03	2.68E-03	1.34E-04	2.95E-03	2.26E-06	0.02530491	9.22E-03	4.16E-04	1.23E-03	2.68E-03	1.34E-04	2.38E-04	2.95E-03	1.69E-02
1552	494611.06, 3858651.99	1.78E-02	4.13E-04	1.22E-03	2.66E-03	1.33E-04	2.92E-03	2.23E-06	0.02510164	9.15E-03	4.13E-04	1.22E-03	2.66E-03	1.33E-04	2.37E-04	2.92E-03	1.67E-02
1553	494661.06, 3858651.99	1.75E-02	4.09E-04	1.21E-03	2.62E-03	1.32E-04	2.88E-03	2.19E-06	0.02480948	9.04E-03	4.09E-04	1.21E-03	2.62E-03	1.32E-04	2.34E-04	2.88E-03	1.65E-02
1554	494711.06, 3858651.99	1.73E-02	4.05E-04	1.19E-03	2.58E-03	1.29E-04	2.83E-03	2.14E-06	0.02443127	8.91E-03	4.05E-04	1.19E-03	2.58E-03	1.29E-04	2.30E-04	2.83E-03	1.63E-02
1555	494761.06, 3858651.99	1.71E-02	4.02E-04	1.18E-03	2.54E-03	1.28E-04	2.79E-03	2.09E-06	0.02413515	8.81E-03	4.02E-04	1.18E-03	2.54E-03	1.28E-04	2.27E-04	2.79E-03	1.61E-02
1556	494811.06, 3858651.99	1.68E-02	3.97E-04	1.16E-03	2.49E-03	1.25E-04	2.74E-03	2.04E-06	0.02371219	8.66E-03	3.97E-04	1.16E-03	2.49E-03	1.25E-04	2.23E-04	2.74E-03	1.58E-02

1557	494861.06, 3858651.99	1.65E-02	3.92E-04	1.14E-03	2.44E-03	1.23E-04	2.69E-03	1.98E-06	0.02332787	8.53E-03	3.92E-04	1.14E-03	2.44E-03	1.23E-04	2.18E-04	2.69E-03	1.55E-02
1558	494911.06, 3858651.99	1.63E-02	3.88E-04	1.12E-03	2.38E-03	1.20E-04	2.63E-03	1.93E-06	0.02290346	8.39E-03	3.88E-04	1.12E-03	2.38E-03	1.20E-04	2.14E-04	2.63E-03	1.52E-02
1559	494961.06, 3858651.99	1.60E-02	3.83E-04	1.10E-03	2.34E-03	1.17E-04	2.58E-03	1.88E-06	0.02250898	8.25E-03	3.83E-04	1.10E-03	2.34E-03	1.17E-04	2.10E-04	2.58E-03	1.50E-02
1560	495011.06, 3858651.99	1.58E-02	3.80E-04	1.09E-03	2.30E-03	1.16E-04	2.54E-03	1.84E-06	0.02219814	8.14E-03	3.80E-04	1.09E-03	2.30E-03	1.16E-04	2.07E-04	2.54E-03	1.48E-02
1561	495061.06, 3858651.99	1.55E-02	3.76E-04	1.07E-03	2.26E-03	1.13E-04	2.50E-03	1.80E-06	0.02184717	8.02E-03	3.76E-04	1.07E-03	2.26E-03	1.13E-04	2.03E-04	2.50E-03	1.45E-02
1562	495111.06, 3858651.99	1.53E-02	3.72E-04	1.05E-03	2.21E-03	1.11E-04	2.45E-03	1.75E-06	0.02145287	7.88E-03	3.72E-04	1.05E-03	2.21E-03	1.11E-04	1.99E-04	2.45E-03	1.43E-02
1563	495161.06, 3858651.99	1.51E-02	3.69E-04	1.04E-03	2.18E-03	1.09E-04	2.42E-03	1.72E-06	0.02118556	7.78E-03	3.69E-04	1.04E-03	2.18E-03	1.09E-04	1.96E-04	2.42E-03	1.41E-02
1564	495211.06, 3858651.99	1.49E-02	3.66E-04	1.03E-03	2.15E-03	1.08E-04	2.38E-03	1.68E-06	0.02087921	7.68E-03	3.66E-04	1.03E-03	2.15E-03	1.08E-04	1.93E-04	2.38E-03	1.39E-02
1565	495261.06, 3858651.99	1.48E-02	3.64E-04	1.02E-03	2.13E-03	1.07E-04	2.37E-03	1.66E-06	0.02076239	7.63E-03	3.64E-04	1.02E-03	2.13E-03	1.07E-04	1.92E-04	2.37E-03	1.38E-02
1566	495311.06, 3858651.99	1.46E-02	3.62E-04	1.02E-03	2.12E-03	1.06E-04	2.34E-03	1.64E-06	0.0205319	7.54E-03	3.62E-04	1.02E-03	2.12E-03	1.06E-04	1.91E-04	2.34E-03	1.37E-02
1567	495361.06, 3858651.99	1.45E-02	3.61E-04	1.01E-03	2.10E-03	1.06E-04	2.33E-03	1.63E-06	0.02041508	7.50E-03	3.61E-04	1.01E-03	2.10E-03	1.06E-04	1.90E-04	2.33E-03	1.36E-02
1568	495411.06, 3858651.99	1.44E-02	3.60E-04	1.01E-03	2.10E-03	1.05E-04	2.32E-03	1.61E-06	0.02032457	7.47E-03	3.60E-04	1.01E-03	2.10E-03	1.05E-04	1.90E-04	2.32E-03	1.35E-02
1569	495461.06, 3858651.99	1.44E-02	3.59E-04	1.00E-03	2.09E-03	1.05E-04	2.31E-03	1.60E-06	0.02025991	7.44E-03	3.59E-04	1.00E-03	2.09E-03	1.05E-04	1.90E-04	2.31E-03	1.35E-02
1570	495511.06, 3858651.99	1.43E-02	3.56E-04	9.95E-04	2.07E-03	1.04E-04	2.29E-03	1.58E-06	0.02007658	7.38E-03	3.56E-04	9.95E-04	2.07E-03	1.04E-04	1.88E-04	2.29E-03	1.34E-02
1571	495561.06, 3858651.99	1.41E-02	3.55E-04	9.88E-04	2.06E-03	1.03E-04	2.27E-03	1.56E-06	0.01992166	7.32E-03	3.55E-04	9.88E-04	2.06E-03	1.03E-04	1.87E-04	2.27E-03	1.33E-02
1572	495611.06, 3858651.99	1.40E-02	3.53E-04	9.77E-04	2.03E-03	1.02E-04	2.24E-03	1.54E-06	0.01971897	7.25E-03	3.53E-04	9.77E-04	2.03E-03	1.02E-04	1.85E-04	2.24E-03	1.31E-02
1573	495661.06, 3858651.99	1.39E-02	3.51E-04	9.74E-04	2.02E-03	1.02E-04	2.23E-03	1.52E-06	0.01963247	7.22E-03	3.51E-04	9.74E-04	2.02E-03	1.02E-04	1.85E-04	2.23E-03	1.31E-02
1574	494311.06, 3858701.99	1.74E-02	4.16E-04	1.20E-03	2.49E-03	1.24E-04	2.82E-03	2.13E-06	0.02448654	9.00E-03	4.16E-04	1.20E-03	2.49E-03	1.24E-04	2.15E-04	2.82E-03	1.63E-02
1575	494361.06, 3858701.99	1.82E-02	4.25E-04	1.25E-03	2.65E-03	1.33E-04	2.98E-03	2.27E-06	0.0256263	9.37E-03	4.25E-04	1.25E-03	2.65E-03	1.33E-04	2.33E-04	2.98E-03	1.70E-02
1576	494411.06, 3858701.99	1.85E-02	4.30E-04	1.29E-03	2.74E-03	1.37E-04	3.07E-03	2.34E-06	0.02616654	9.53E-03	4.30E-04	1.29E-03	2.74E-03	1.37E-04	2.42E-04	3.07E-03	1.74E-02
1577	494461.06, 3858701.99	1.84E-02	4.29E-04	1.29E-03	2.74E-03	1.37E-04	3.06E-03	2.33E-06	0.02606759	9.48E-03	4.29E-04	1.29E-03	2.74E-03	1.37E-04	2.43E-04	3.06E-03	1.74E-02
1578	494511.06, 3858701.99	1.83E-02	4.28E-04	1.30E-03	2.74E-03	1.37E-04	3.04E-03	2.32E-06	0.02591863	9.42E-03	4.28E-04	1.30E-03	2.74E-03	1.37E-04	2.42E-04	3.04E-03	1.73E-02
1579	494561.06, 3858701.99	1.81E-02	4.25E-04	1.29E-03	2.72E-03	1.36E-04	3.02E-03	2.28E-06	0.02571431	9.34E-03	4.25E-04	1.29E-03	2.72E-03	1.36E-04	2.40E-04	3.02E-03	1.72E-02
1580	494611.06, 3858701.99	1.78E-02	4.20E-04	1.27E-03	2.66E-03	1.33E-04	2.96E-03	2.22E-06	0.0252801	9.20E-03	4.20E-04	1.27E-03	2.66E-03	1.33E-04	2.36E-04	2.96E-03	1.69E-02
1581	494661.06, 3858701.99	1.78E-02	4.19E-04	1.27E-03	2.65E-03	1.33E-04	2.95E-03	2.21E-06	0.02517352	9.15E-03	4.19E-04	1.27E-03	2.65E-03	1.33E-04	2.36E-04	2.95E-03	1.68E-02
1582	494711.06, 3858701.99	1.72E-02	4.09E-04	1.22E-03	2.54E-03	1.27E-04	2.83E-03	2.09E-06	0.02434158	8.88E-03	4.09E-04	1.22E-03	2.54E-03	1.27E-04	2.25E-04	2.83E-03	1.62E-02
1583	494761.06, 3858701.99	1.72E-02	4.09E-04	1.23E-03	2.56E-03	1.28E-04	2.84E-03	2.10E-06	0.0244197	8.90E-03	4.09E-04	1.23E-03	2.56E-03	1.28E-04	2.28E-04	2.84E-03	1.63E-02
1584	494811.06, 3858701.99	1.70E-02	4.04E-04	1.21E-03	2.51E-03	1.26E-04	2.79E-03	2.04E-06	0.02400679	8.76E-03	4.04E-04	1.21E-03	2.51E-03	1.26E-04	2.24E-04	2.79E-03	1.60E-02
1585	494861.06, 3858701.99	1.67E-02	4.00E-04	1.19E-03	2.46E-03	1.24E-04	2.74E-03	2.00E-06	0.02364968	8.63E-03	4.00E-04	1.19E-03	2.46E-03	1.24E-04	2.20E-04	2.74E-03	1.58E-02
1586	494911.06, 3858701.99	1.65E-02	3.97E-04	1.18E-03	2.43E-03	1.22E-04	2.70E-03	1.96E-06	0.02333716	8.52E-03	3.97E-04	1.18E-03	2.43E-03	1.22E-04	2.17E-04	2.70E-03	1.56E-02
1587	494961.06, 3858701.99	1.61E-02	3.90E-04	1.15E-03	2.35E-03	1.18E-04	2.63E-03	1.89E-06	0.02277546	8.33E-03	3.90E-04	1.15E-03	2.35E-03	1.18E-04	2.10E-04	2.63E-03	1.52E-02
1588	495011.06, 3858701.99	1.59E-02	3.86E-04	1.13E-03	2.31E-03	1.16E-04	2.58E-03	1.84E-06	0.02241264	8.21E-03	3.86E-04	1.13E-03	2.31E-03	1.16E-04	2.07E-04	2.58E-03	1.49E-02
1589	495061.06, 3858701.99	1.58E-02	3.84E-04	1.12E-03	2.29E-03	1.15E-04	2.55E-03	1.81E-06	0.0222122	8.14E-03	3.84E-04	1.12E-03	2.29E-03	1.15E-04	2.05E-04	2.55E-03	1.48E-02
1590	495111.06, 3858701.99	1.55E-02	3.79E-04	1.10E-03	2.24E-03	1.12E-04	2.50E-03	1.76E-06	0.02177661	7.98E-03	3.79E-04	1.10E-03	2.24E-03	1.12E-04	2.00E-04	2.50E-03	1.45E-02
1591	495161.06, 3858701.99	1.53E-02	3.76E-04	1.09E-03	2.21E-03	1.11E-04	2.47E-03	1.73E-06	0.02154811	7.90E-03	3.76E-04	1.09E-03	2.21E-03	1.11E-04	1.98E-04	2.47E-03	1.44E-02
1592	495211.06, 3858701.99	1.51E-02	3.73E-04	1.07E-03	2.17E-03	1.09E-04	2.43E-03	1.70E-06	0.02124149	7.80E-03	3.73E-04	1.07E-03	2.17E-03	1.09E-04	1.95E-04	2.43E-03	1.42E-02
1593	495261.06, 3858701.99	1.50E-02	3.71E-04	1.07E-03	2.16E-03	1.09E-04	2.42E-03	1.68E-06	0.02112818	7.75E-03	3.71E-04	1.07E-03	2.16E-03	1.09E-04	1.95E-04	2.42E-03	1.41E-02
1594	495311.06, 3858701.99	1.49E-02	3.70E-04	1.06E-03	2.16E-03	1.08E-04	2.40E-03	1.67E-06	0.0210158	7.71E-03	3.70E-04	1.06E-03	2.16E-03	1.08E-04	1.94E-04	2.40E-03	1.40E-02
1595	495361.06, 3858701.99	1.48E-02	3.68E-04	1.06E-03	2.14E-03	1.08E-04	2.38E-03	1.65E-06	0.02086296	7.66E-03	3.68E-04	1.06E-03	2.14E-03	1.08E-04	1.93E-04	2.38E-03	1.39E-02
1596	495411.06, 3858701.99	1.48E-02	3.67E-04	1.05E-03	2.14E-03	1.07E-04	2.38E-03	1.64E-06	0.02079347	7.63E-03	3.67E-04	1.05E-03	2.14E-03	1.07E-04	1.93E-04	2.38E-03	1.39E-02
1597	495461.06, 3858701.99	1.47E-02	3.66E-04	1.05E-03	2.12E-03	1.07E-04	2.36E-03	1.62E-06	0.02067722	7.59E-03	3.66E-04	1.05E-03	2.12E-03	1.07E-04	1.93E-04	2.36E-03	1.38E-02
1598	495511.06, 3858701.99	1.46E-02	3.63E-04	1.04E-03	2.11E-03	1.06E-04	2.34E-03	1.60E-06	0.02051822	7.53E-03	3.63E-04	1.04E-03	2.11E-03	1.06E-04	1.91E-04	2.34E-03	1.37E-02
1599	495561.06, 3858701.99	1.44E-02	3.61E-04	1.03E-03	2.09E-03	1.05E-04	2.32E-03	1.58E-06	0.02032647	7.46E-03	3.61E-04	1.03E-03	2.09E-03	1.05E-04	1.90E-04	2.32E-03	1.36E-02
1600	495611.06, 3858701.99	1.43E-02	3.59E-04	1.02E-03	2.07E-03	1.04E-04	2.29E-03	1.56E-06	0.0201473	7.40E-03	3.59E-04	1.02E-03	2.07E-03	1.04E-04	1.88E-04	2.29E-03	1.34E-02
1601	495661.06, 3858701.99	1.42E-02	3.58E-04	1.01E-03	2.05E-03	1.03E-04	2.28E-03	1.54E-06	0.02001872	7.36E-03	3.58E-04	1.01E-03	2.05E-03	1.03E-04	1.87E-04	2.28E-03	1.33E-02
1602	494311.06, 3858751.99	1.78E-02	4.25E-04	1.26E-03	2.53E-03	1.26E-04	2.89E-03	2.14E-06	0.02503153	9.19E-03	4.25E-04	1.26E-03	2.53E-03	1.26E-04	2.18E-04	2.89E-03	1.66E-02
1603	494361.06, 3858751.99	1.86E-02	4.37E-04	1.33E-03	2.72E-03	1.36E-04	3.09E-03	2.32E-06	0.02626825	9.57E-03	4.37E-04	1.33E-03	2.72E-03	1.36E-04	2.38E-04	3.09E-03	1.75E-02
1604	494411.06, 3858751.99	1.87E-02	4.41E-04	1.36E-03	2.79E-03	1.39E-04	3.16E-03	2.38E-06	0.0266278	9.66E-03	4.41E-04	1.36E-03	2.79E-03	1.39E-04	2.45E-04	3.16E-03	1.78E-02
1605	494461.06, 3858751.99	1.86E-02	4.39E-04	1.36E-03	2.79E-03	1.39E-04	3.15E-03	2.36E-06	0.02651046	9.61E-03	4.39E-04	1.36E-03	2.79E-03	1.39E-04	2.45E-04	3.15E-03	1.77E-02
1606	494511.06, 3858751.99	1.85E-02	4.40E-04	1.37E-03	2.79E-03	1.39E-04	3.13E-03	2.36E-06	0.02641035	9.56E-03	4.40E-04	1.37E-03	2.79E-03	1.39E-04	2.45E-04	3.13E-03	1.77E-02
1607	494561.06, 3858751.99	1.84E-02	4.34E-04	1.35E-03	2.75E-03	1.38E-04	3.09E-03	2.31E-06	0.02612283	9.47E-03	4.34E-04	1.35E-03	2.75E-03	1.38E-04	2.43E-04	3.09E-03	1.75E-02
1608	494611.06, 3858751.99	1.81E-02	4.30E-04	1.33E-03	2.71E-03	1.35E-04	3.04E-03	2.25E-06	0.02575574	9.34E-03	4.30E-04	1.33E-03	2.71E-03	1.35E-04	2.39E-04	3.04E-03	1.72E-02
1609	494661.06, 3858751.99	1.80E-02	4.26E-04	1.31E-03	2.68E-03	1.34E-04	3.01E-03	2.22E-06	0.02551658	9.26E-03	4.26E-04	1.31E-03	2.68E-03	1.34E-04	2.38E-04	3.01E-03	1.71E-02
1610	494711.06, 3858751.99	1.76E-02	4.20E-04	1.29E-03	2.61E-03	1.31E-04	2.94E-03	2.15E-06	0.02502253	9.10E-03	4.20E-04	1.29E-03	2.61E-03	1.31E-04	2.32E-04	2.94E-03	1.67E-02

1611	494761.06, 3858751.99	1.75E-02	4.18E-04	1.28E-03	2.59E-03	1.30E-04	2.91E-03	2.12E-06	0.0247891	9.01E-03	4.18E-04	1.28E-03	2.59E-03	1.30E-04	2.30E-04	2.91E-03	1.66E-02
1612	494811.06, 3858751.99	1.72E-02	4.13E-04	1.26E-03	2.53E-03	1.27E-04	2.84E-03	2.06E-06	0.02434489	8.86E-03	4.13E-04	1.26E-03	2.53E-03	1.27E-04	2.25E-04	2.84E-03	1.63E-02
1613	494861.06, 3858751.99	1.69E-02	4.08E-04	1.24E-03	2.48E-03	1.24E-04	2.79E-03	2.01E-06	0.02394846	8.73E-03	4.08E-04	1.24E-03	2.48E-03	1.24E-04	2.21E-04	2.79E-03	1.60E-02
1614	494911.06, 3858751.99	1.66E-02	4.02E-04	1.22E-03	2.43E-03	1.22E-04	2.73E-03	1.95E-06	0.02349937	8.57E-03	4.02E-04	1.22E-03	2.43E-03	1.22E-04	2.16E-04	2.73E-03	1.57E-02
1615	494961.06, 3858751.99	1.64E-02	3.99E-04	1.20E-03	2.39E-03	1.20E-04	2.68E-03	1.91E-06	0.02316227	8.46E-03	3.99E-04	1.20E-03	2.39E-03	1.20E-04	2.13E-04	2.68E-03	1.55E-02
1616	495011.06, 3858751.99	1.62E-02	3.95E-04	1.19E-03	2.36E-03	1.18E-04	2.65E-03	1.87E-06	0.02291342	8.37E-03	3.95E-04	1.19E-03	2.36E-03	1.18E-04	2.11E-04	2.65E-03	1.53E-02
1617	495061.06, 3858751.99	1.60E-02	3.91E-04	1.17E-03	2.32E-03	1.16E-04	2.61E-03	1.83E-06	0.02257191	8.25E-03	3.91E-04	1.17E-03	2.32E-03	1.16E-04	2.07E-04	2.61E-03	1.51E-02
1618	495111.06, 3858751.99	1.57E-02	3.87E-04	1.15E-03	2.27E-03	1.14E-04	2.56E-03	1.78E-06	0.02217286	8.11E-03	3.87E-04	1.15E-03	2.27E-03	1.14E-04	2.03E-04	2.56E-03	1.48E-02
1619	495161.06, 3858751.99	1.55E-02	3.84E-04	1.13E-03	2.24E-03	1.12E-04	2.52E-03	1.75E-06	0.02192338	8.03E-03	3.84E-04	1.13E-03	2.24E-03	1.12E-04	2.01E-04	2.52E-03	1.46E-02
1620	495211.06, 3858751.99	1.53E-02	3.80E-04	1.12E-03	2.21E-03	1.11E-04	2.48E-03	1.72E-06	0.02161483	7.92E-03	3.80E-04	1.12E-03	2.21E-03	1.11E-04	1.98E-04	2.48E-03	1.44E-02
1621	495261.06, 3858751.99	1.52E-02	3.79E-04	1.11E-03	2.19E-03	1.10E-04	2.47E-03	1.70E-06	0.02148286	7.87E-03	3.79E-04	1.11E-03	2.19E-03	1.10E-04	1.97E-04	2.47E-03	1.43E-02
1622	495311.06, 3858751.99	1.51E-02	3.77E-04	1.11E-03	2.19E-03	1.10E-04	2.45E-03	1.69E-06	0.02137185	7.83E-03	3.77E-04	1.11E-03	2.19E-03	1.10E-04	1.97E-04	2.45E-03	1.43E-02
1623	495361.06, 3858751.99	1.50E-02	3.75E-04	1.10E-03	2.17E-03	1.09E-04	2.44E-03	1.67E-06	0.02123399	7.78E-03	3.75E-04	1.10E-03	2.17E-03	1.09E-04	1.96E-04	2.44E-03	1.42E-02
1624	495411.06, 3858751.99	1.50E-02	3.75E-04	1.10E-03	2.17E-03	1.09E-04	2.43E-03	1.66E-06	0.02117216	7.75E-03	3.75E-04	1.10E-03	2.17E-03	1.09E-04	1.96E-04	2.43E-03	1.41E-02
1625	495461.06, 3858751.99	1.49E-02	3.73E-04	1.09E-03	2.16E-03	1.08E-04	2.41E-03	1.64E-06	0.02105613	7.71E-03	3.73E-04	1.09E-03	2.16E-03	1.08E-04	1.95E-04	2.41E-03	1.41E-02
1626	495511.06, 3858751.99	1.48E-02	3.71E-04	1.08E-03	2.14E-03	1.08E-04	2.39E-03	1.62E-06	0.02088245	7.65E-03	3.71E-04	1.08E-03	2.14E-03	1.08E-04	1.94E-04	2.39E-03	1.39E-02
1627	495561.06, 3858751.99	1.47E-02	3.68E-04	1.07E-03	2.12E-03	1.07E-04	2.37E-03	1.60E-06	0.02070435	7.59E-03	3.68E-04	1.07E-03	2.12E-03	1.07E-04	1.92E-04	2.37E-03	1.38E-02
1628	495611.06, 3858751.99	1.45E-02	3.66E-04	1.06E-03	2.10E-03	1.06E-04	2.34E-03	1.58E-06	0.02051384	7.52E-03	3.66E-04	1.06E-03	2.10E-03	1.06E-04	1.91E-04	2.34E-03	1.37E-02
1629	495661.06, 3858751.99	1.44E-02	3.64E-04	1.06E-03	2.09E-03	1.05E-04	2.33E-03	1.56E-06	0.02036637	7.47E-03	3.64E-04	1.06E-03	2.09E-03	1.05E-04	1.90E-04	2.33E-03	1.36E-02
1630	494311.06, 3858801.99	1.83E-02	4.39E-04	1.33E-03	2.60E-03	1.30E-04	3.01E-03	2.21E-06	0.02579733	9.43E-03	4.39E-04	1.33E-03	2.60E-03	1.30E-04	2.26E-04	3.01E-03	1.72E-02
1631	494361.06, 3858801.99	1.88E-02	4.50E-04	1.40E-03	2.77E-03	1.38E-04	3.18E-03	2.36E-06	0.02678219	9.72E-03	4.50E-04	1.40E-03	2.77E-03	1.38E-04	2.42E-04	3.18E-03	1.79E-02
1632	494411.06, 3858801.99	1.89E-02	4.51E-04	1.42E-03	2.81E-03	1.40E-04	3.21E-03	2.39E-06	0.02690453	9.74E-03	4.51E-04	1.42E-03	2.81E-03	1.40E-04	2.45E-04	3.21E-03	1.80E-02
1633	494461.06, 3858801.99	1.88E-02	4.51E-04	1.42E-03	2.82E-03	1.41E-04	3.22E-03	2.39E-06	0.02688409	9.71E-03	4.51E-04	1.42E-03	2.82E-03	1.41E-04	2.47E-04	3.22E-03	1.80E-02
1634	494511.06, 3858801.99	1.87E-02	4.51E-04	1.44E-03	2.84E-03	1.41E-04	3.21E-03	2.39E-06	0.02680924	9.67E-03	4.51E-04	1.44E-03	2.84E-03	1.41E-04	2.47E-04	3.21E-03	1.80E-02
1635	494561.06, 3858801.99	1.86E-02	4.48E-04	1.43E-03	2.82E-03	1.40E-04	3.19E-03	2.37E-06	0.02661835	9.60E-03	4.48E-04	1.43E-03	2.82E-03	1.40E-04	2.47E-04	3.19E-03	1.79E-02
1636	494611.06, 3858801.99	1.84E-02	4.44E-04	1.42E-03	2.79E-03	1.39E-04	3.15E-03	2.33E-06	0.02636057	9.51E-03	4.44E-04	1.42E-03	2.79E-03	1.39E-04	2.45E-04	3.15E-03	1.77E-02
1637	494661.06, 3858801.99	1.82E-02	4.39E-04	1.39E-03	2.74E-03	1.37E-04	3.10E-03	2.27E-06	0.02598029	9.38E-03	4.39E-04	1.39E-03	2.74E-03	1.37E-04	2.41E-04	3.10E-03	1.74E-02
1638	494711.06, 3858801.99	1.79E-02	4.34E-04	1.37E-03	2.68E-03	1.34E-04	3.03E-03	2.21E-06	0.02556367	9.25E-03	4.34E-04	1.37E-03	2.68E-03	1.34E-04	2.36E-04	3.03E-03	1.71E-02
1639	494761.06, 3858801.99	1.76E-02	4.27E-04	1.34E-03	2.62E-03	1.31E-04	2.96E-03	2.13E-06	0.0250802	9.09E-03	4.27E-04	1.34E-03	2.62E-03	1.31E-04	2.31E-04	2.96E-03	1.68E-02
1640	494811.06, 3858801.99	1.73E-02	4.20E-04	1.31E-03	2.55E-03	1.27E-04	2.89E-03	2.06E-06	0.02457893	8.93E-03	4.20E-04	1.31E-03	2.55E-03	1.27E-04	2.25E-04	2.89E-03	1.64E-02
1641	494861.06, 3858801.99	1.71E-02	4.16E-04	1.29E-03	2.51E-03	1.26E-04	2.84E-03	2.02E-06	0.0242769	8.82E-03	4.16E-04	1.29E-03	2.51E-03	1.26E-04	2.22E-04	2.84E-03	1.62E-02
1642	494911.06, 3858801.99	1.68E-02	4.11E-04	1.27E-03	2.46E-03	1.23E-04	2.79E-03	1.97E-06	0.0238572	8.68E-03	4.11E-04	1.27E-03	2.46E-03	1.23E-04	2.18E-04	2.79E-03	1.59E-02
1643	494961.06, 3858801.99	1.66E-02	4.07E-04	1.25E-03	2.42E-03	1.21E-04	2.74E-03	1.92E-06	0.02353116	8.57E-03	4.07E-04	1.25E-03	2.42E-03	1.21E-04	2.15E-04	2.74E-03	1.57E-02
1644	495011.06, 3858801.99	1.63E-02	4.03E-04	1.23E-03	2.38E-03	1.19E-04	2.69E-03	1.88E-06	0.02317451	8.45E-03	4.03E-04	1.23E-03	2.38E-03	1.19E-04	2.11E-04	2.69E-03	1.55E-02
1645	495061.06, 3858801.99	1.62E-02	4.00E-04	1.22E-03	2.35E-03	1.18E-04	2.66E-03	1.85E-06	0.02292711	8.36E-03	4.00E-04	1.22E-03	2.35E-03	1.18E-04	2.09E-04	2.66E-03	1.53E-02
1646	495111.06, 3858801.99	1.59E-02	3.95E-04	1.19E-03	2.30E-03	1.15E-04	2.61E-03	1.80E-06	0.02249627	8.22E-03	3.95E-04	1.19E-03	2.30E-03	1.15E-04	2.05E-04	2.61E-03	1.50E-02
1647	495161.06, 3858801.99	1.57E-02	3.90E-04	1.18E-03	2.26E-03	1.13E-04	2.56E-03	1.76E-06	0.02217573	8.11E-03	3.90E-04	1.18E-03	2.26E-03	1.13E-04	2.01E-04	2.56E-03	1.48E-02
1648	495211.06, 3858801.99	1.55E-02	3.88E-04	1.16E-03	2.24E-03	1.12E-04	2.54E-03	1.73E-06	0.02196116	8.03E-03	3.88E-04	1.16E-03	2.24E-03	1.12E-04	2.00E-04	2.54E-03	1.47E-02
1649	495261.06, 3858801.99	1.54E-02	3.86E-04	1.16E-03	2.22E-03	1.12E-04	2.52E-03	1.72E-06	0.02184469	7.99E-03	3.86E-04	1.16E-03	2.22E-03	1.12E-04	1.99E-04	2.52E-03	1.46E-02
1650	495311.06, 3858801.99	1.54E-02	3.85E-04	1.15E-03	2.22E-03	1.11E-04	2.51E-03	1.71E-06	0.02173994	7.95E-03	3.85E-04	1.15E-03	2.22E-03	1.11E-04	1.99E-04	2.51E-03	1.45E-02
1651	495361.06, 3858801.99	1.53E-02	3.83E-04	1.15E-03	2.21E-03	1.11E-04	2.49E-03	1.69E-06	0.02160484	7.90E-03	3.83E-04	1.15E-03	2.21E-03	1.11E-04	1.98E-04	2.49E-03	1.44E-02
1652	495411.06, 3858801.99	1.52E-02	3.83E-04	1.15E-03	2.21E-03	1.11E-04	2.49E-03	1.69E-06	0.02158695	7.89E-03	3.83E-04	1.15E-03	2.21E-03	1.11E-04	1.99E-04	2.49E-03	1.44E-02
1653	495461.06, 3858801.99	1.51E-02	3.80E-04	1.14E-03	2.19E-03	1.10E-04	2.47E-03	1.67E-06	0.02143617	7.83E-03	3.80E-04	1.14E-03	2.19E-03	1.10E-04	1.98E-04	2.47E-03	1.43E-02
1654	495511.06, 3858801.99	1.50E-02	3.78E-04	1.13E-03	2.17E-03	1.09E-04	2.45E-03	1.65E-06	0.02124163	7.76E-03	3.78E-04	1.13E-03	2.17E-03	1.09E-04	1.96E-04	2.45E-03	1.42E-02
1655	495561.06, 3858801.99	1.49E-02	3.76E-04	1.12E-03	2.16E-03	1.08E-04	2.43E-03	1.63E-06	0.02108747	7.71E-03	3.76E-04	1.12E-03	2.16E-03	1.08E-04	1.95E-04	2.43E-03	1.41E-02
1656	495611.06, 3858801.99	1.48E-02	3.73E-04	1.11E-03	2.13E-03	1.07E-04	2.40E-03	1.60E-06	0.02086897	7.64E-03	3.73E-04	1.11E-03	2.13E-03	1.07E-04	1.93E-04	2.40E-03	1.39E-02
1657	495661.06, 3858801.99	1.47E-02	3.72E-04	1.10E-03	2.12E-03	1.07E-04	2.38E-03	1.58E-06	0.02074775	7.59E-03	3.72E-04	1.10E-03	2.12E-03	1.07E-04	1.92E-04	2.38E-03	1.39E-02
1658	494311.06, 3858851.99	1.91E-02	4.61E-04	1.46E-03	2.79E-03	1.39E-04	3.23E-03	2.38E-06	0.02713988	9.84E-03	4.61E-04	1.46E-03	2.79E-03	1.39E-04	2.41E-04	3.23E-03	1.82E-02
1659	494361.06, 3858851.99	1.92E-02	4.66E-04	1.50E-03	2.88E-03	1.43E-04	3.33E-03	2.47E-06	0.02757307	9.94E-03	4.66E-04	1.50E-03	2.88E-03	1.43E-04	2.49E-04	3.33E-03	1.85E-02
1660	494411.06, 3858851.99	1.91E-02	4.64E-04	1.50E-03	2.87E-03	1.43E-04	3.31E-03	2.45E-06	0.02739307	9.87E-03	4.64E-04	1.50E-03	2.87E-03	1.43E-04	2.49E-04	3.31E-03	1.84E-02
1661	494461.06, 3858851.99	1.90E-02	4.62E-04	1.50E-03	2.87E-03	1.43E-04	3.30E-03	2.44E-06	0.02729132	9.82E-03	4.62E-04	1.50E-03	2.87E-03	1.43E-04	2.50E-04	3.30E-03	1.83E-02
1662	494511.06, 3858851.99	1.89E-02	4.62E-04	1.51E-03	2.87E-03	1.42E-04	3.28E-03	2.42E-06	0.02714076	9.75E-03	4.62E-04	1.51E-03	2.87E-03	1.42E-04	2.49E-04	3.28E-03	1.83E-02
1663	494561.06, 3858851.99	1.87E-02	4.59E-04	1.49E-03	2.85E-03	1.41E-04	3.25E-03	2.39E-06	0.02692038	9.67E-03	4.59E-04	1.49E-03	2.85E-03	1.41E-04	2.47E-04	3.25E-03	1.81E-02
1664	494611.06, 3858851.99	1.85E-02	4.54E-04	1.48E-03	2.81E-03	1.40E-04	3.21E-03	2.34E-06	0.0266244	9.58E-03	4.54E-04	1.48E-03	2.81E-03	1.40E-04	2.45E-04	3.21E-03	1.79E-02

1665	494661.06, 3858851.99	1.83E-02	4.49E-04	1.45E-03	2.77E-03	1.37E-04	3.15E-03	2.29E-06	0.02627616	9.46E-03	4.49E-04	1.45E-03	2.77E-03	1.37E-04	2.41E-04	3.15E-03	1.77E-02
1666	494711.06, 3858851.99	1.80E-02	4.42E-04	1.42E-03	2.70E-03	1.34E-04	3.08E-03	2.21E-06	0.02579811	9.31E-03	4.42E-04	1.42E-03	2.70E-03	1.34E-04	2.36E-04	3.08E-03	1.73E-02
1667	494761.06, 3858851.99	1.77E-02	4.35E-04	1.39E-03	2.63E-03	1.31E-04	3.01E-03	2.14E-06	0.02533154	9.16E-03	4.35E-04	1.39E-03	2.63E-03	1.31E-04	2.31E-04	3.01E-03	1.70E-02
1668	494811.06, 3858851.99	1.75E-02	4.30E-04	1.37E-03	2.58E-03	1.29E-04	2.95E-03	2.09E-06	0.02492651	9.03E-03	4.30E-04	1.37E-03	2.58E-03	1.29E-04	2.27E-04	2.95E-03	1.67E-02
1669	494861.06, 3858851.99	1.73E-02	4.26E-04	1.35E-03	2.55E-03	1.27E-04	2.91E-03	2.05E-06	0.02463949	8.93E-03	4.26E-04	1.35E-03	2.55E-03	1.27E-04	2.24E-04	2.91E-03	1.65E-02
1670	494911.06, 3858851.99	1.70E-02	4.20E-04	1.33E-03	2.50E-03	1.25E-04	2.85E-03	1.99E-06	0.02425596	8.81E-03	4.20E-04	1.33E-03	2.50E-03	1.25E-04	2.20E-04	2.85E-03	1.62E-02
1671	494961.06, 3858851.99	1.68E-02	4.16E-04	1.31E-03	2.45E-03	1.23E-04	2.80E-03	1.95E-06	0.02390959	8.69E-03	4.16E-04	1.31E-03	2.45E-03	1.23E-04	2.17E-04	2.80E-03	1.60E-02
1672	495011.06, 3858851.99	1.66E-02	4.12E-04	1.29E-03	2.42E-03	1.21E-04	2.76E-03	1.91E-06	0.02361229	8.59E-03	4.12E-04	1.29E-03	2.42E-03	1.21E-04	2.14E-04	2.76E-03	1.58E-02
1673	495061.06, 3858851.99	1.64E-02	4.08E-04	1.27E-03	2.38E-03	1.19E-04	2.72E-03	1.87E-06	0.02327151	8.47E-03	4.08E-04	1.27E-03	2.38E-03	1.19E-04	2.11E-04	2.72E-03	1.56E-02
1674	495111.06, 3858851.99	1.60E-02	4.01E-04	1.24E-03	2.31E-03	1.15E-04	2.64E-03	1.80E-06	0.02271955	8.29E-03	4.01E-04	1.24E-03	2.31E-03	1.15E-04	2.05E-04	2.64E-03	1.52E-02
1675	495161.06, 3858851.99	1.58E-02	3.97E-04	1.22E-03	2.27E-03	1.13E-04	2.60E-03	1.76E-06	0.0224018	8.18E-03	3.97E-04	1.22E-03	2.27E-03	1.13E-04	2.02E-04	2.60E-03	1.50E-02
1676	495211.06, 3858851.99	1.58E-02	3.96E-04	1.21E-03	2.27E-03	1.14E-04	2.59E-03	1.75E-06	0.02234387	8.15E-03	3.96E-04	1.21E-03	2.27E-03	1.14E-04	2.02E-04	2.59E-03	1.49E-02
1677	495261.06, 3858851.99	1.57E-02	3.95E-04	1.21E-03	2.26E-03	1.13E-04	2.58E-03	1.74E-06	0.02221267	8.11E-03	3.95E-04	1.21E-03	2.26E-03	1.13E-04	2.01E-04	2.58E-03	1.49E-02
1678	495311.06, 3858851.99	1.56E-02	3.93E-04	1.20E-03	2.26E-03	1.13E-04	2.57E-03	1.73E-06	0.02212943	8.07E-03	3.93E-04	1.20E-03	2.26E-03	1.13E-04	2.02E-04	2.57E-03	1.48E-02
1679	495361.06, 3858851.99	1.55E-02	3.91E-04	1.20E-03	2.25E-03	1.12E-04	2.55E-03	1.72E-06	0.0220185	8.03E-03	3.91E-04	1.20E-03	2.25E-03	1.12E-04	2.01E-04	2.55E-03	1.47E-02
1680	495411.06, 3858851.99	1.54E-02	3.90E-04	1.19E-03	2.24E-03	1.12E-04	2.54E-03	1.70E-06	0.02189616	7.98E-03	3.90E-04	1.19E-03	2.24E-03	1.12E-04	2.01E-04	2.54E-03	1.47E-02
1681	495461.06, 3858851.99	1.53E-02	3.88E-04	1.19E-03	2.23E-03	1.12E-04	2.53E-03	1.69E-06	0.02179414	7.95E-03	3.88E-04	1.19E-03	2.23E-03	1.12E-04	2.00E-04	2.53E-03	1.46E-02
1682	495511.06, 3858851.99	1.53E-02	3.86E-04	1.17E-03	2.22E-03	1.11E-04	2.51E-03	1.67E-06	0.02168165	7.91E-03	3.86E-04	1.17E-03	2.22E-03	1.11E-04	2.00E-04	2.51E-03	1.45E-02
1683	495561.06, 3858851.99	1.51E-02	3.83E-04	1.16E-03	2.18E-03	1.09E-04	2.47E-03	1.64E-06	0.02137497	7.80E-03	3.83E-04	1.16E-03	2.18E-03	1.09E-04	1.97E-04	2.47E-03	1.43E-02
1684	495611.06, 3858851.99	1.49E-02	3.80E-04	1.15E-03	2.15E-03	1.08E-04	2.44E-03	1.61E-06	0.02115454	7.73E-03	3.80E-04	1.15E-03	2.15E-03	1.08E-04	1.94E-04	2.44E-03	1.42E-02
1685	495661.06, 3858851.99	1.49E-02	3.78E-04	1.14E-03	2.15E-03	1.08E-04	2.43E-03	1.60E-06	0.02106587	7.70E-03	3.78E-04	1.14E-03	2.15E-03	1.08E-04	1.94E-04	2.43E-03	1.41E-02
1686	494311.06, 3858901.99	1.93E-02	4.75E-04	1.55E-03	2.86E-03	1.42E-04	3.34E-03	2.45E-06	0.0277038	9.99E-03	4.75E-04	1.55E-03	2.86E-03	1.42E-04	2.46E-04	3.34E-03	1.86E-02
1687	494361.06, 3858901.99	1.94E-02	4.79E-04	1.58E-03	2.93E-03	1.45E-04	3.41E-03	2.51E-06	0.02795372	1.00E-02	4.79E-04	1.58E-03	2.93E-03	1.45E-04	2.52E-04	3.41E-03	1.88E-02
1688	494411.06, 3858901.99	1.93E-02	4.77E-04	1.58E-03	2.93E-03	1.45E-04	3.41E-03	2.50E-06	0.02783987	9.98E-03	4.77E-04	1.58E-03	2.93E-03	1.45E-04	2.52E-04	3.41E-03	1.88E-02
1689	494461.06, 3858901.99	1.92E-02	4.78E-04	1.59E-03	2.94E-03	1.45E-04	3.39E-03	2.50E-06	0.02773182	9.92E-03	4.78E-04	1.59E-03	2.94E-03	1.45E-04	2.52E-04	3.39E-03	1.87E-02
1690	494511.06, 3858901.99	1.91E-02	4.75E-04	1.59E-03	2.93E-03	1.44E-04	3.38E-03	2.48E-06	0.02757656	9.86E-03	4.75E-04	1.59E-03	2.93E-03	1.44E-04	2.52E-04	3.38E-03	1.86E-02
1691	494561.06, 3858901.99	1.89E-02	4.70E-04	1.57E-03	2.89E-03	1.43E-04	3.33E-03	2.43E-06	0.02727467	9.76E-03	4.70E-04	1.57E-03	2.89E-03	1.43E-04	2.49E-04	3.33E-03	1.84E-02
1692	494611.06, 3858901.99	1.86E-02	4.63E-04	1.54E-03	2.83E-03	1.40E-04	3.25E-03	2.35E-06	0.02682229	9.62E-03	4.63E-04	1.54E-03	2.83E-03	1.40E-04	2.44E-04	3.25E-03	1.81E-02
1693	494661.06, 3858901.99	1.84E-02	4.59E-04	1.52E-03	2.79E-03	1.38E-04	3.21E-03	2.31E-06	0.02653057	9.53E-03	4.59E-04	1.52E-03	2.79E-03	1.38E-04	2.42E-04	3.21E-03	1.79E-02
1694	494711.06, 3858901.99	1.82E-02	4.52E-04	1.48E-03	2.73E-03	1.35E-04	3.14E-03	2.24E-06	0.02609739	9.39E-03	4.52E-04	1.48E-03	2.73E-03	1.35E-04	2.37E-04	3.14E-03	1.76E-02
1695	494761.06, 3858901.99	1.79E-02	4.45E-04	1.45E-03	2.66E-03	1.32E-04	3.06E-03	2.16E-06	0.02560706	9.24E-03	4.45E-04	1.45E-03	2.66E-03	1.32E-04	2.31E-04	3.06E-03	1.72E-02
1696	494811.06, 3858901.99	1.77E-02	4.40E-04	1.43E-03	2.61E-03	1.30E-04	3.01E-03	2.11E-06	0.02527118	9.13E-03	4.40E-04	1.43E-03	2.61E-03	1.30E-04	2.28E-04	3.01E-03	1.70E-02
1697	494861.06, 3858901.99	1.75E-02	4.36E-04	1.41E-03	2.58E-03	1.28E-04	2.97E-03	2.07E-06	0.02499138	9.03E-03	4.36E-04	1.41E-03	2.58E-03	1.28E-04	2.26E-04	2.97E-03	1.68E-02
1698	494911.06, 3858901.99	1.72E-02	4.29E-04	1.38E-03	2.51E-03	1.25E-04	2.89E-03	2.00E-06	0.02449259	8.87E-03	4.29E-04	1.38E-03	2.51E-03	1.25E-04	2.20E-04	2.89E-03	1.64E-02
1699	494961.06, 3858901.99	1.70E-02	4.24E-04	1.36E-03	2.47E-03	1.23E-04	2.85E-03	1.96E-06	0.02418634	8.77E-03	4.24E-04	1.36E-03	2.47E-03	1.23E-04	2.18E-04	2.85E-03	1.62E-02
1700	495011.06, 3858901.99	1.67E-02	4.20E-04	1.34E-03	2.44E-03	1.22E-04	2.81E-03	1.92E-06	0.02386919	8.66E-03	4.20E-04	1.34E-03	2.44E-03	1.22E-04	2.15E-04	2.81E-03	1.60E-02
1701	495061.06, 3858901.99	1.65E-02	4.14E-04	1.31E-03	2.39E-03	1.19E-04	2.75E-03	1.87E-06	0.02346456	8.53E-03	4.14E-04	1.31E-03	2.39E-03	1.19E-04	2.10E-04	2.75E-03	1.57E-02
1702	495111.06, 3858901.99	1.61E-02	4.08E-04	1.28E-03	2.31E-03	1.15E-04	2.67E-03	1.80E-06	0.02290847	8.35E-03	4.08E-04	1.28E-03	2.31E-03	1.15E-04	2.04E-04	2.67E-03	1.53E-02
1703	495161.06, 3858901.99	1.60E-02	4.05E-04	1.26E-03	2.29E-03	1.14E-04	2.64E-03	1.77E-06	0.02268837	8.27E-03	4.05E-04	1.26E-03	2.29E-03	1.14E-04	2.03E-04	2.64E-03	1.52E-02
1704	495211.06, 3858901.99	1.60E-02	4.05E-04	1.27E-03	2.30E-03	1.15E-04	2.65E-03	1.78E-06	0.02270633	8.27E-03	4.05E-04	1.27E-03	2.30E-03	1.15E-04	2.04E-04	2.65E-03	1.52E-02
1705	495261.06, 3858901.99	1.59E-02	4.03E-04	1.26E-03	2.30E-03	1.15E-04	2.63E-03	1.77E-06	0.02260369	8.23E-03	4.03E-04	1.26E-03	2.30E-03	1.15E-04	2.04E-04	2.63E-03	1.51E-02
1706	495311.06, 3858901.99	1.58E-02	4.01E-04	1.25E-03	2.29E-03	1.14E-04	2.62E-03	1.75E-06	0.02247059	8.18E-03	4.01E-04	1.25E-03	2.29E-03	1.14E-04	2.03E-04	2.62E-03	1.51E-02
1707	495361.06, 3858901.99	1.57E-02	3.99E-04	1.24E-03	2.28E-03	1.14E-04	2.60E-03	1.73E-06	0.02234496	8.13E-03	3.99E-04	1.24E-03	2.28E-03	1.14E-04	2.03E-04	2.60E-03	1.50E-02
1708	495411.06, 3858901.99	1.57E-02	3.98E-04	1.24E-03	2.27E-03	1.14E-04	2.60E-03	1.73E-06	0.02227634	8.10E-03	3.98E-04	1.24E-03	2.27E-03	1.14E-04	2.03E-04	2.60E-03	1.49E-02
1709	495461.06, 3858901.99	1.55E-02	3.96E-04	1.23E-03	2.26E-03	1.13E-04	2.57E-03	1.71E-06	0.02212194	8.05E-03	3.96E-04	1.23E-03	2.26E-03	1.13E-04	2.02E-04	2.57E-03	1.48E-02
1710	495511.06, 3858901.99	1.54E-02	3.93E-04	1.22E-03	2.23E-03	1.12E-04	2.55E-03	1.68E-06	0.02190484	7.98E-03	3.93E-04	1.22E-03	2.23E-03	1.12E-04	2.00E-04	2.55E-03	1.47E-02
1711	495561.06, 3858901.99	1.53E-02	3.90E-04	1.21E-03	2.21E-03	1.11E-04	2.52E-03	1.66E-06	0.02173111	7.92E-03	3.90E-04	1.21E-03	2.21E-03	1.11E-04	1.99E-04	2.52E-03	1.46E-02
1712	495611.06, 3858901.99	1.51E-02	3.87E-04	1.19E-03	2.19E-03	1.10E-04	2.49E-03	1.63E-06	0.0215005	7.84E-03	3.87E-04	1.19E-03	2.19E-03	1.10E-04	1.97E-04	2.49E-03	1.44E-02
1713	495661.06, 3858901.99	1.51E-02	3.86E-04	1.19E-03	2.18E-03	1.09E-04	2.48E-03	1.62E-06	0.02144344	7.82E-03	3.86E-04	1.19E-03	2.18E-03	1.09E-04	1.97E-04	2.48E-03	1.44E-02
1714	494311.06, 3858951.99	1.96E-02	4.93E-04	1.67E-03	2.97E-03	1.46E-04	3.50E-03	2.56E-06	0.02842769	1.02E-02	4.93E-04	1.67E-03	2.97E-03	1.46E-04	2.53E-04	3.50E-03	1.92E-02
1715	494361.06, 3858951.99	1.96E-02	4.93E-04	1.68E-03	3.00E-03	1.47E-04	3.52E-03	2.58E-06	0.02840798	1.01E-02	4.93E-04	1.68E-03	3.00E-03	1.47E-04	2.55E-04	3.52E-03	1.92E-02
1716	494411.06, 3858951.99	1.94E-02	4.89E-04	1.66E-03	2.97E-03	1.46E-04	3.48E-03	2.54E-06	0.02814911	1.00E-02	4.89E-04	1.66E-03	2.97E-03	1.46E-04	2.53E-04	3.48E-03	1.90E-02
1717	494461.06, 3858951.99	1.93E-02	4.90E-04	1.67E-03	2.98E-03	1.46E-04	3.47E-03	2.54E-06	0.02804967	9.99E-03	4.90E-04	1.67E-03	2.98E-03	1.46E-04	2.53E-04	3.47E-03	1.90E-02
1718	494511.06, 3858951.99	1.91E-02	4.87E-04	1.66E-03	2.96E-03	1.45E-04	3.44E-03	2.51E-06	0.02784209	9.91E-03	4.87E-04	1.66E-03	2.96E-03	1.45E-04	2.52E-04	3.44E-03	1.89E-02

1719	494561.06, 3858951.99	1.90E-02	4.82E-04	1.64E-03	2.92E-03	1.43E-04	3.39E-03	2.46E-06	0.02754291	9.82E-03	4.82E-04	1.64E-03	2.92E-03	1.43E-04	2.50E-04	3.39E-03	1.86E-02
1720	494611.06, 3858951.99	1.87E-02	4.75E-04	1.61E-03	2.86E-03	1.41E-04	3.33E-03	2.39E-06	0.02714937	9.70E-03	4.75E-04	1.61E-03	2.86E-03	1.41E-04	2.46E-04	3.33E-03	1.84E-02
1721	494661.06, 3858951.99	1.85E-02	4.69E-04	1.58E-03	2.81E-03	1.39E-04	3.27E-03	2.33E-06	0.02678121	9.58E-03	4.69E-04	1.58E-03	2.81E-03	1.39E-04	2.42E-04	3.27E-03	1.81E-02
1722	494711.06, 3858951.99	1.82E-02	4.61E-04	1.54E-03	2.74E-03	1.35E-04	3.18E-03	2.25E-06	0.02630132	9.44E-03	4.61E-04	1.54E-03	2.74E-03	1.35E-04	2.37E-04	3.18E-03	1.77E-02
1723	494761.06, 3858951.99	1.80E-02	4.55E-04	1.51E-03	2.69E-03	1.33E-04	3.12E-03	2.19E-06	0.02591967	9.32E-03	4.55E-04	1.51E-03	2.69E-03	1.33E-04	2.33E-04	3.12E-03	1.75E-02
1724	494811.06, 3858951.99	1.78E-02	4.51E-04	1.49E-03	2.65E-03	1.31E-04	3.08E-03	2.14E-06	0.02563083	9.23E-03	4.51E-04	1.49E-03	2.65E-03	1.31E-04	2.30E-04	3.08E-03	1.73E-02
1725	494861.06, 3858951.99	1.76E-02	4.46E-04	1.47E-03	2.61E-03	1.30E-04	3.03E-03	2.10E-06	0.02532229	9.13E-03	4.46E-04	1.47E-03	2.61E-03	1.30E-04	2.28E-04	3.03E-03	1.70E-02
1726	494911.06, 3858951.99	1.74E-02	4.40E-04	1.44E-03	2.56E-03	1.27E-04	2.97E-03	2.04E-06	0.02492549	9.00E-03	4.40E-04	1.44E-03	2.56E-03	1.27E-04	2.23E-04	2.97E-03	1.68E-02
1727	494961.06, 3858951.99	1.72E-02	4.36E-04	1.43E-03	2.53E-03	1.26E-04	2.93E-03	2.01E-06	0.02468865	8.92E-03	4.36E-04	1.43E-03	2.53E-03	1.26E-04	2.21E-04	2.93E-03	1.66E-02
1728	495011.06, 3858951.99	1.69E-02	4.28E-04	1.38E-03	2.45E-03	1.22E-04	2.84E-03	1.93E-06	0.02410052	8.73E-03	4.28E-04	1.38E-03	2.45E-03	1.22E-04	2.15E-04	2.84E-03	1.62E-02
1729	495061.06, 3858951.99	1.65E-02	4.20E-04	1.35E-03	2.38E-03	1.18E-04	2.76E-03	1.85E-06	0.02354595	8.56E-03	4.20E-04	1.35E-03	2.38E-03	1.18E-04	2.08E-04	2.76E-03	1.58E-02
1730	495111.06, 3858951.99	1.62E-02	4.14E-04	1.32E-03	2.32E-03	1.16E-04	2.70E-03	1.80E-06	0.02310353	8.41E-03	4.14E-04	1.32E-03	2.32E-03	1.16E-04	2.04E-04	2.70E-03	1.55E-02
1731	495161.06, 3858951.99	1.63E-02	4.15E-04	1.32E-03	2.34E-03	1.17E-04	2.71E-03	1.81E-06	0.02318558	8.43E-03	4.15E-04	1.32E-03	2.34E-03	1.17E-04	2.06E-04	2.71E-03	1.55E-02
1732	495211.06, 3858951.99	1.62E-02	4.14E-04	1.32E-03	2.34E-03	1.16E-04	2.70E-03	1.80E-06	0.02309042	8.39E-03	4.14E-04	1.32E-03	2.34E-03	1.16E-04	2.06E-04	2.70E-03	1.55E-02
1733	495261.06, 3858951.99	1.61E-02	4.12E-04	1.31E-03	2.33E-03	1.16E-04	2.69E-03	1.79E-06	0.02299091	8.35E-03	4.12E-04	1.31E-03	2.33E-03	1.16E-04	2.06E-04	2.69E-03	1.54E-02
1734	495311.06, 3858951.99	1.60E-02	4.08E-04	1.30E-03	2.30E-03	1.15E-04	2.66E-03	1.76E-06	0.02274323	8.27E-03	4.08E-04	1.30E-03	2.30E-03	1.15E-04	2.04E-04	2.66E-03	1.53E-02
1735	495361.06, 3858951.99	1.59E-02	4.07E-04	1.29E-03	2.30E-03	1.15E-04	2.65E-03	1.75E-06	0.02267087	8.24E-03	4.07E-04	1.29E-03	2.30E-03	1.15E-04	2.04E-04	2.65E-03	1.52E-02
1736	495411.06, 3858951.99	1.59E-02	4.06E-04	1.29E-03	2.30E-03	1.15E-04	2.65E-03	1.75E-06	0.02262293	8.22E-03	4.06E-04	1.29E-03	2.30E-03	1.15E-04	2.05E-04	2.65E-03	1.52E-02
1737	495461.06, 3858951.99	1.58E-02	4.04E-04	1.28E-03	2.29E-03	1.14E-04	2.63E-03	1.73E-06	0.02248064	8.17E-03	4.04E-04	1.28E-03	2.29E-03	1.14E-04	2.04E-04	2.63E-03	1.51E-02
1738	495511.06, 3858951.99	1.57E-02	4.02E-04	1.28E-03	2.29E-03	1.14E-04	2.62E-03	1.72E-06	0.02240623	8.14E-03	4.02E-04	1.28E-03	2.29E-03	1.14E-04	2.04E-04	2.62E-03	1.50E-02
1739	495561.06, 3858951.99	1.55E-02	3.98E-04	1.25E-03	2.25E-03	1.12E-04	2.57E-03	1.68E-06	0.02209005	8.03E-03	3.98E-04	1.25E-03	2.25E-03	1.12E-04	2.01E-04	2.57E-03	1.48E-02
1740	495611.06, 3858951.99	1.54E-02	3.95E-04	1.24E-03	2.22E-03	1.11E-04	2.54E-03	1.66E-06	0.02188578	7.97E-03	3.95E-04	1.24E-03	2.22E-03	1.11E-04	1.99E-04	2.54E-03	1.47E-02
1741	495661.06, 3858951.99	1.54E-02	3.94E-04	1.23E-03	2.22E-03	1.11E-04	2.53E-03	1.65E-06	0.02186062	7.96E-03	3.94E-04	1.23E-03	2.22E-03	1.11E-04	1.99E-04	2.53E-03	1.47E-02
1742	494311.06, 3859001.99	1.98E-02	5.09E-04	1.77E-03	3.05E-03	1.49E-04	3.62E-03	2.64E-06	0.02888848	1.03E-02	5.09E-04	1.77E-03	3.05E-03	1.49E-04	2.57E-04	3.62E-03	1.96E-02
1743	494361.06, 3859001.99	1.97E-02	5.07E-04	1.77E-03	3.04E-03	1.48E-04	3.60E-03	2.63E-06	0.02872811	1.02E-02	5.07E-04	1.77E-03	3.04E-03	1.48E-04	2.57E-04	3.60E-03	1.95E-02
1744	494411.06, 3859001.99	1.95E-02	5.06E-04	1.77E-03	3.03E-03	1.48E-04	3.57E-03	2.61E-06	0.02855496	1.01E-02	5.06E-04	1.77E-03	3.03E-03	1.48E-04	2.55E-04	3.57E-03	1.94E-02
1745	494461.06, 3859001.99	1.94E-02	5.03E-04	1.76E-03	3.02E-03	1.47E-04	3.55E-03	2.58E-06	0.02833672	1.00E-02	5.03E-04	1.76E-03	3.02E-03	1.47E-04	2.54E-04	3.55E-03	1.93E-02
1746	494511.06, 3859001.99	1.92E-02	4.99E-04	1.74E-03	3.00E-03	1.46E-04	3.52E-03	2.55E-06	0.02811578	9.96E-03	4.99E-04	1.74E-03	3.00E-03	1.46E-04	2.53E-04	3.52E-03	1.91E-02
1747	494561.06, 3859001.99	1.90E-02	4.92E-04	1.71E-03	2.94E-03	1.44E-04	3.45E-03	2.48E-06	0.0277523	9.86E-03	4.92E-04	1.71E-03	2.94E-03	1.44E-04	2.50E-04	3.45E-03	1.88E-02
1748	494611.06, 3859001.99	1.88E-02	4.87E-04	1.68E-03	2.89E-03	1.42E-04	3.39E-03	2.42E-06	0.02740618	9.75E-03	4.87E-04	1.68E-03	2.89E-03	1.42E-04	2.46E-04	3.39E-03	1.86E-02
1749	494661.06, 3859001.99	1.86E-02	4.79E-04	1.64E-03	2.83E-03	1.39E-04	3.32E-03	2.35E-06	0.02699925	9.63E-03	4.79E-04	1.64E-03	2.83E-03	1.39E-04	2.42E-04	3.32E-03	1.83E-02
1750	494711.06, 3859001.99	1.83E-02	4.71E-04	1.60E-03	2.76E-03	1.36E-04	3.23E-03	2.26E-06	0.02653534	9.50E-03	4.71E-04	1.60E-03	2.76E-03	1.36E-04	2.37E-04	3.23E-03	1.79E-02
1751	494761.06, 3859001.99	1.81E-02	4.66E-04	1.58E-03	2.72E-03	1.34E-04	3.18E-03	2.21E-06	0.02622035	9.40E-03	4.66E-04	1.58E-03	2.72E-03	1.34E-04	2.34E-04	3.18E-03	1.77E-02
1752	494811.06, 3859001.99	1.80E-02	4.62E-04	1.56E-03	2.69E-03	1.33E-04	3.15E-03	2.18E-06	0.02599715	9.33E-03	4.62E-04	1.56E-03	2.69E-03	1.33E-04	2.32E-04	3.15E-03	1.76E-02
1753	494861.06, 3859001.99	1.78E-02	4.56E-04	1.53E-03	2.65E-03	1.31E-04	3.09E-03	2.13E-06	0.02565014	9.22E-03	4.56E-04	1.53E-03	2.65E-03	1.31E-04	2.29E-04	3.09E-03	1.73E-02
1754	494911.06, 3859001.99	1.76E-02	4.51E-04	1.51E-03	2.60E-03	1.28E-04	3.03E-03	2.07E-06	0.02529641	9.11E-03	4.51E-04	1.51E-03	2.60E-03	1.28E-04	2.25E-04	3.03E-03	1.70E-02
1755	494961.06, 3859001.99	1.73E-02	4.45E-04	1.48E-03	2.55E-03	1.26E-04	2.97E-03	2.02E-06	0.02491705	8.99E-03	4.45E-04	1.48E-03	2.55E-03	1.26E-04	2.21E-04	2.97E-03	1.68E-02
1756	495011.06, 3859001.99	1.68E-02	4.32E-04	1.41E-03	2.42E-03	1.20E-04	2.83E-03	1.89E-06	0.02405711	8.73E-03	4.32E-04	1.41E-03	2.42E-03	1.20E-04	2.10E-04	2.83E-03	1.61E-02
1757	495061.06, 3859001.99	1.67E-02	4.29E-04	1.39E-03	2.39E-03	1.19E-04	2.80E-03	1.86E-06	0.02382348	8.65E-03	4.29E-04	1.39E-03	2.39E-03	1.19E-04	2.09E-04	2.80E-03	1.60E-02
1758	495111.06, 3859001.99	1.64E-02	4.23E-04	1.36E-03	2.34E-03	1.16E-04	2.74E-03	1.81E-06	0.02340564	8.51E-03	4.23E-04	1.36E-03	2.34E-03	1.16E-04	2.04E-04	2.74E-03	1.57E-02
1759	495161.06, 3859001.99	1.65E-02	4.24E-04	1.38E-03	2.38E-03	1.18E-04	2.77E-03	1.84E-06	0.02360446	8.57E-03	4.24E-04	1.38E-03	2.38E-03	1.18E-04	2.08E-04	2.77E-03	1.58E-02
1760	495211.06, 3859001.99	1.64E-02	4.22E-04	1.37E-03	2.36E-03	1.17E-04	2.75E-03	1.82E-06	0.0234641	8.52E-03	4.22E-04	1.37E-03	2.36E-03	1.17E-04	2.08E-04	2.75E-03	1.57E-02
1761	495261.06, 3859001.99	1.64E-02	4.21E-04	1.36E-03	2.36E-03	1.17E-04	2.74E-03	1.81E-06	0.02338233	8.48E-03	4.21E-04	1.36E-03	2.36E-03	1.17E-04	2.08E-04	2.74E-03	1.57E-02
1762	495311.06, 3859001.99	1.63E-02	4.18E-04	1.35E-03	2.35E-03	1.17E-04	2.72E-03	1.79E-06	0.02321809	8.43E-03	4.18E-04	1.35E-03	2.35E-03	1.17E-04	2.07E-04	2.72E-03	1.56E-02
1763	495361.06, 3859001.99	1.62E-02	4.17E-04	1.35E-03	2.34E-03	1.17E-04	2.71E-03	1.79E-06	0.02313013	8.39E-03	4.17E-04	1.35E-03	2.34E-03	1.17E-04	2.07E-04	2.71E-03	1.55E-02
1764	495411.06, 3859001.99	1.61E-02	4.14E-04	1.34E-03	2.33E-03	1.16E-04	2.70E-03	1.77E-06	0.02301065	8.35E-03	4.14E-04	1.34E-03	2.33E-03	1.16E-04	2.07E-04	2.70E-03	1.55E-02
1765	495461.06, 3859001.99	1.60E-02	4.13E-04	1.33E-03	2.33E-03	1.16E-04	2.68E-03	1.76E-06	0.02291527	8.31E-03	4.13E-04	1.33E-03	2.33E-03	1.16E-04	2.06E-04	2.68E-03	1.54E-02
1766	495511.06, 3859001.99	1.59E-02	4.09E-04	1.31E-03	2.30E-03	1.14E-04	2.65E-03	1.73E-06	0.02264501	8.22E-03	4.09E-04	1.31E-03	2.30E-03	1.14E-04	2.04E-04	2.65E-03	1.52E-02
1767	495561.06, 3859001.99	1.58E-02	4.07E-04	1.30E-03	2.28E-03	1.13E-04	2.62E-03	1.71E-06	0.02248014	8.17E-03	4.07E-04	1.30E-03	2.28E-03	1.13E-04	2.03E-04	2.62E-03	1.51E-02
1768	495611.06, 3859001.99	1.57E-02	4.03E-04	1.29E-03	2.26E-03	1.12E-04	2.60E-03	1.68E-06	0.02232042	8.12E-03	4.03E-04	1.29E-03	2.26E-03	1.12E-04	2.01E-04	2.60E-03	1.50E-02
1769	495661.06, 3859001.99	1.57E-02	4.03E-04	1.29E-03	2.27E-03	1.13E-04	2.60E-03	1.69E-06	0.02239253	8.14E-03	4.03E-04	1.29E-03	2.27E-03	1.13E-04	2.03E-04	2.60E-03	1.50E-02
1770	494311.06, 3859051.99	1.99E-02	5.24E-04	1.87E-03	3.10E-03	1.50E-04	3.71E-03	2.70E-06	0.02922401	1.03E-02	5.24E-04	1.87E-03	3.10E-03	1.50E-04	2.59E-04	3.71E-03	1.99E-02
1771	494361.06, 3859051.99	1.97E-02	5.25E-04	1.88E-03	3.10E-03	1.50E-04	3.69E-03	2.69E-06	0.02908857	1.02E-02	5.25E-04	1.88E-03	3.10E-03	1.50E-04	2.58E-04	3.69E-03	1.99E-02
1772	494411.06, 3859051.99	1.96E-02	5.20E-04	1.86E-03	3.07E-03	1.49E-04	3.66E-03	2.65E-06	0.02882299	1.02E-02	5.20E-04	1.86E-03	3.07E-03	1.49E-04	2.56E-04	3.66E-03	1.97E-02

1773	494461.06, 3859051.99	1.94E-02	5.15E-04	1.84E-03	3.04E-03	1.47E-04	3.61E-03	2.60E-06	0.02854227	1.01E-02	5.15E-04	1.84E-03	3.04E-03	1.47E-04	2.54E-04	3.61E-03	1.95E-02
1774	494511.06, 3859051.99	1.92E-02	5.09E-04	1.81E-03	3.00E-03	1.46E-04	3.55E-03	2.55E-06	0.02821873	9.97E-03	5.09E-04	1.81E-03	3.00E-03	1.46E-04	2.52E-04	3.55E-03	1.92E-02
1775	494561.06, 3859051.99	1.90E-02	5.04E-04	1.78E-03	2.96E-03	1.44E-04	3.50E-03	2.50E-06	0.02793259	9.88E-03	5.04E-04	1.78E-03	2.96E-03	1.44E-04	2.49E-04	3.50E-03	1.90E-02
1776	494611.06, 3859051.99	1.88E-02	4.97E-04	1.75E-03	2.91E-03	1.42E-04	3.44E-03	2.43E-06	0.02758176	9.78E-03	4.97E-04	1.75E-03	2.91E-03	1.42E-04	2.46E-04	3.44E-03	1.88E-02
1777	494661.06, 3859051.99	1.87E-02	4.90E-04	1.71E-03	2.85E-03	1.39E-04	3.37E-03	2.37E-06	0.02722337	9.68E-03	4.90E-04	1.71E-03	2.85E-03	1.39E-04	2.42E-04	3.37E-03	1.85E-02
1778	494711.06, 3859051.99	1.85E-02	4.84E-04	1.68E-03	2.80E-03	1.37E-04	3.31E-03	2.31E-06	0.02687463	9.58E-03	4.84E-04	1.68E-03	2.80E-03	1.37E-04	2.39E-04	3.31E-03	1.82E-02
1779	494761.06, 3859051.99	1.83E-02	4.77E-04	1.65E-03	2.75E-03	1.35E-04	3.24E-03	2.24E-06	0.02652908	9.48E-03	4.77E-04	1.65E-03	2.75E-03	1.35E-04	2.35E-04	3.24E-03	1.80E-02
1780	494811.06, 3859051.99	1.81E-02	4.72E-04	1.62E-03	2.71E-03	1.33E-04	3.20E-03	2.20E-06	0.026282	9.41E-03	4.72E-04	1.62E-03	2.71E-03	1.33E-04	2.32E-04	3.20E-03	1.78E-02
1781	494861.06, 3859051.99	1.80E-02	4.67E-04	1.60E-03	2.68E-03	1.32E-04	3.15E-03	2.15E-06	0.02600741	9.33E-03	4.67E-04	1.60E-03	2.68E-03	1.32E-04	2.30E-04	3.15E-03	1.76E-02
1782	494911.06, 3859051.99	1.78E-02	4.60E-04	1.56E-03	2.62E-03	1.29E-04	3.08E-03	2.09E-06	0.0256136	9.21E-03	4.60E-04	1.56E-03	2.62E-03	1.29E-04	2.25E-04	3.08E-03	1.73E-02
1783	494961.06, 3859051.99	1.75E-02	4.51E-04	1.51E-03	2.53E-03	1.25E-04	2.98E-03	2.00E-06	0.025074	9.06E-03	4.51E-04	1.51E-03	2.53E-03	1.25E-04	2.19E-04	2.98E-03	1.69E-02
1784	495011.06, 3859051.99	1.72E-02	4.44E-04	1.48E-03	2.47E-03	1.22E-04	2.90E-03	1.93E-06	0.02463231	8.92E-03	4.44E-04	1.48E-03	2.47E-03	1.22E-04	2.14E-04	2.90E-03	1.65E-02
1785	495061.06, 3859051.99	1.70E-02	4.39E-04	1.45E-03	2.42E-03	1.20E-04	2.85E-03	1.89E-06	0.02432431	8.83E-03	4.39E-04	1.45E-03	2.42E-03	1.20E-04	2.10E-04	2.85E-03	1.63E-02
1786	495111.06, 3859051.99	1.69E-02	4.35E-04	1.43E-03	2.40E-03	1.19E-04	2.82E-03	1.86E-06	0.02412723	8.76E-03	4.35E-04	1.43E-03	2.40E-03	1.19E-04	2.09E-04	2.82E-03	1.62E-02
1787	495161.06, 3859051.99	1.69E-02	4.35E-04	1.44E-03	2.42E-03	1.20E-04	2.83E-03	1.87E-06	0.02419317	8.78E-03	4.35E-04	1.44E-03	2.42E-03	1.20E-04	2.11E-04	2.83E-03	1.62E-02
1788	495211.06, 3859051.99	1.68E-02	4.31E-04	1.42E-03	2.39E-03	1.18E-04	2.80E-03	1.84E-06	0.02396958	8.71E-03	4.31E-04	1.42E-03	2.39E-03	1.18E-04	2.09E-04	2.80E-03	1.61E-02
1789	495261.06, 3859051.99	1.68E-02	4.30E-04	1.42E-03	2.40E-03	1.19E-04	2.80E-03	1.84E-06	0.0239612	8.70E-03	4.30E-04	1.42E-03	2.40E-03	1.19E-04	2.10E-04	2.80E-03	1.61E-02
1790	495311.06, 3859051.99	1.67E-02	4.27E-04	1.41E-03	2.38E-03	1.18E-04	2.77E-03	1.82E-06	0.02377145	8.63E-03	4.27E-04	1.41E-03	2.38E-03	1.18E-04	2.09E-04	2.77E-03	1.59E-02
1791	495361.06, 3859051.99	1.66E-02	4.25E-04	1.40E-03	2.37E-03	1.18E-04	2.76E-03	1.81E-06	0.02366064	8.59E-03	4.25E-04	1.40E-03	2.37E-03	1.18E-04	2.08E-04	2.76E-03	1.59E-02
1792	495411.06, 3859051.99	1.65E-02	4.24E-04	1.39E-03	2.37E-03	1.18E-04	2.75E-03	1.80E-06	0.02358913	8.56E-03	4.24E-04	1.39E-03	2.37E-03	1.18E-04	2.09E-04	2.75E-03	1.58E-02
1793	495461.06, 3859051.99	1.65E-02	4.22E-04	1.39E-03	2.37E-03	1.17E-04	2.75E-03	1.79E-06	0.02351185	8.53E-03	4.22E-04	1.39E-03	2.37E-03	1.17E-04	2.09E-04	2.75E-03	1.58E-02
1794	495511.06, 3859051.99	1.63E-02	4.18E-04	1.37E-03	2.34E-03	1.16E-04	2.71E-03	1.76E-06	0.02323865	8.44E-03	4.18E-04	1.37E-03	2.34E-03	1.16E-04	2.06E-04	2.71E-03	1.56E-02
1795	495561.06, 3859051.99	1.62E-02	4.15E-04	1.35E-03	2.31E-03	1.15E-04	2.67E-03	1.73E-06	0.0230342	8.38E-03	4.15E-04	1.35E-03	2.31E-03	1.15E-04	2.05E-04	2.67E-03	1.54E-02
1796	495611.06, 3859051.99	1.61E-02	4.12E-04	1.33E-03	2.29E-03	1.14E-04	2.65E-03	1.71E-06	0.02286134	8.32E-03	4.12E-04	1.33E-03	2.29E-03	1.14E-04	2.03E-04	2.65E-03	1.53E-02
1797	495661.06, 3859051.99	1.62E-02	4.12E-04	1.33E-03	2.30E-03	1.14E-04	2.65E-03	1.71E-06	0.02296197	8.36E-03	4.12E-04	1.33E-03	2.30E-03	1.14E-04	2.04E-04	2.65E-03	1.54E-02
1798	494311.06, 3859101.99	1.99E-02	5.43E-04	2.00E-03	3.15E-03	1.51E-04	3.81E-03	2.75E-06	0.02955559	1.04E-02	5.43E-04	2.00E-03	3.15E-03	1.51E-04	2.60E-04	3.81E-03	2.03E-02
1799	494361.06, 3859101.99	1.97E-02	5.39E-04	1.97E-03	3.13E-03	1.50E-04	3.77E-03	2.72E-06	0.02929597	1.03E-02	5.39E-04	1.97E-03	3.13E-03	1.50E-04	2.58E-04	3.77E-03	2.01E-02
1800	494411.06, 3859101.99	1.96E-02	5.35E-04	1.96E-03	3.11E-03	1.49E-04	3.74E-03	2.69E-06	0.02907217	1.02E-02	5.35E-04	1.96E-03	3.11E-03	1.49E-04	2.57E-04	3.74E-03	1.99E-02
1801	494461.06, 3859101.99	1.94E-02	5.29E-04	1.93E-03	3.08E-03	1.48E-04	3.69E-03	2.64E-06	0.02878079	1.01E-02	5.29E-04	1.93E-03	3.08E-03	1.48E-04	2.55E-04	3.69E-03	1.97E-02
1802	494511.06, 3859101.99	1.92E-02	5.22E-04	1.89E-03	3.02E-03	1.46E-04	3.62E-03	2.57E-06	0.02842096	9.99E-03	5.22E-04	1.89E-03	3.02E-03	1.46E-04	2.52E-04	3.62E-03	1.94E-02
1803	494561.06, 3859101.99	1.91E-02	5.16E-04	1.86E-03	2.98E-03	1.44E-04	3.56E-03	2.52E-06	0.02812226	9.91E-03	5.16E-04	1.86E-03	2.98E-03	1.44E-04	2.49E-04	3.56E-03	1.92E-02
1804	494611.06, 3859101.99	1.88E-02	5.08E-04	1.82E-03	2.92E-03	1.42E-04	3.48E-03	2.44E-06	0.02771592	9.79E-03	5.08E-04	1.82E-03	2.92E-03	1.42E-04	2.45E-04	3.48E-03	1.89E-02
1805	494661.06, 3859101.99	1.87E-02	5.02E-04	1.79E-03	2.88E-03	1.40E-04	3.43E-03	2.39E-06	0.02744088	9.72E-03	5.02E-04	1.79E-03	2.88E-03	1.40E-04	2.43E-04	3.43E-03	1.87E-02
1806	494711.06, 3859101.99	1.85E-02	4.93E-04	1.74E-03	2.81E-03	1.37E-04	3.34E-03	2.31E-06	0.02702887	9.61E-03	4.93E-04	1.74E-03	2.81E-03	1.37E-04	2.38E-04	3.34E-03	1.84E-02
1807	494761.06, 3859101.99	1.84E-02	4.90E-04	1.73E-03	2.79E-03	1.36E-04	3.32E-03	2.28E-06	0.02689737	9.57E-03	4.90E-04	1.73E-03	2.79E-03	1.36E-04	2.37E-04	3.32E-03	1.83E-02
1808	494811.06, 3859101.99	1.84E-02	4.84E-04	1.69E-03	2.74E-03	1.34E-04	3.26E-03	2.23E-06	0.02670622	9.54E-03	4.84E-04	1.69E-03	2.74E-03	1.34E-04	2.33E-04	3.26E-03	1.81E-02
1809	494861.06, 3859101.99	1.84E-02	4.78E-04	1.66E-03	2.70E-03	1.32E-04	3.20E-03	2.18E-06	0.02654239	9.52E-03	4.78E-04	1.66E-03	2.70E-03	1.32E-04	2.31E-04	3.20E-03	1.79E-02
1810	494911.06, 3859101.99	1.83E-02	4.70E-04	1.63E-03	2.64E-03	1.30E-04	3.13E-03	2.11E-06	0.02628137	9.47E-03	4.70E-04	1.63E-03	2.64E-03	1.30E-04	2.26E-04	3.13E-03	1.77E-02
1811	494961.06, 3859101.99	1.81E-02	4.61E-04	1.57E-03	2.55E-03	1.26E-04	3.02E-03	2.02E-06	0.02584324	9.38E-03	4.61E-04	1.57E-03	2.55E-03	1.26E-04	2.19E-04	3.02E-03	1.73E-02
1812	495011.06, 3859101.99	1.78E-02	4.50E-04	1.51E-03	2.46E-03	1.21E-04	2.91E-03	1.92E-06	0.02528489	9.23E-03	4.50E-04	1.51E-03	2.46E-03	1.21E-04	2.12E-04	2.91E-03	1.69E-02
1813	495061.06, 3859101.99	1.79E-02	4.48E-04	1.51E-03	2.46E-03	1.21E-04	2.91E-03	1.91E-06	0.02534086	9.26E-03	4.48E-04	1.51E-03	2.46E-03	1.21E-04	2.12E-04	2.91E-03	1.69E-02
1814	495111.06, 3859101.99	1.78E-02	4.44E-04	1.49E-03	2.43E-03	1.20E-04	2.87E-03	1.88E-06	0.02516649	9.21E-03	4.44E-04	1.49E-03	2.43E-03	1.20E-04	2.10E-04	2.87E-03	1.68E-02
1815	495161.06, 3859101.99	1.79E-02	4.44E-04	1.49E-03	2.45E-03	1.21E-04	2.89E-03	1.90E-06	0.02526434	9.24E-03	4.44E-04	1.49E-03	2.45E-03	1.21E-04	2.12E-04	2.89E-03	1.68E-02
1816	495211.06, 3859101.99	1.77E-02	4.41E-04	1.48E-03	2.43E-03	1.20E-04	2.85E-03	1.87E-06	0.02506239	9.17E-03	4.41E-04	1.48E-03	2.43E-03	1.20E-04	2.11E-04	2.85E-03	1.67E-02
1817	495261.06, 3859101.99	1.77E-02	4.39E-04	1.47E-03	2.43E-03	1.20E-04	2.85E-03	1.86E-06	0.02501982	9.16E-03	4.39E-04	1.47E-03	2.43E-03	1.20E-04	2.11E-04	2.85E-03	1.67E-02
1818	495311.06, 3859101.99	1.77E-02	4.36E-04	1.46E-03	2.42E-03	1.19E-04	2.83E-03	1.85E-06	0.02494409	9.14E-03	4.36E-04	1.46E-03	2.42E-03	1.19E-04	2.11E-04	2.83E-03	1.66E-02
1819	495361.06, 3859101.99	1.76E-02	4.36E-04	1.46E-03	2.42E-03	1.19E-04	2.83E-03	1.85E-06	0.02487978	9.11E-03	4.36E-04	1.46E-03	2.42E-03	1.19E-04	2.11E-04	2.83E-03	1.66E-02
1820	495411.06, 3859101.99	1.76E-02	4.34E-04	1.45E-03	2.41E-03	1.19E-04	2.82E-03	1.84E-06	0.0247821	9.07E-03	4.34E-04	1.45E-03	2.41E-03	1.19E-04	2.11E-04	2.82E-03	1.65E-02
1821	495461.06, 3859101.99	1.75E-02	4.29E-04	1.43E-03	2.39E-03	1.18E-04	2.79E-03	1.81E-06	0.02462433	9.03E-03	4.29E-04	1.43E-03	2.39E-03	1.18E-04	2.10E-04	2.79E-03	1.64E-02
1822	495511.06, 3859101.99	1.74E-02	4.27E-04	1.42E-03	2.38E-03	1.18E-04	2.77E-03	1.80E-06	0.02449937	8.99E-03	4.27E-04	1.42E-03	2.38E-03	1.18E-04	2.10E-04	2.77E-03	1.63E-02
1823	495561.06, 3859101.99	1.72E-02	4.25E-04	1.41E-03	2.35E-03	1.16E-04	2.74E-03	1.77E-06	0.02425756	8.90E-03	4.25E-04	1.41E-03	2.35E-03	1.16E-04	2.07E-04	2.74E-03	1.61E-02
1824	495611.06, 3859101.99	1.71E-02	4.22E-04	1.39E-03	2.33E-03	1.15E-04	2.70E-03	1.74E-06	0.0240585	8.84E-03	4.22E-04	1.39E-03	2.33E-03	1.15E-04	2.05E-04	2.70E-03	1.60E-02
1825	495661.06, 3859101.99	1.72E-02	4.20E-04	1.38E-03	2.33E-03	1.15E-04	2.70E-03	1.73E-06	0.02411597	8.87E-03	4.20E-04	1.38E-03	2.33E-03	1.15E-04	2.05E-04	2.70E-03	1.60E-02
1826	494311.06, 3859151.99	1.99E-02	5.58E-04	2.10E-03	3.18E-03	1.52E-04	3.89E-03	2.79E-06	0.02977727	1.04E-02	5.58E-04	2.10E-03	3.18E-03	1.52E-04	2.60E-04	3.89E-03	2.05E-02

1827	494361.06, 3859151.99	1.97E-02	5.54E-04	2.08E-03	3.17E-03	1.51E-04	3.86E-03	2.76E-06	0.02956012	1.03E-02	5.54E-04	2.08E-03	3.17E-03	1.51E-04	2.59E-04	3.86E-03	2.04E-02
1828	494411.06, 3859151.99	1.95E-02	5.48E-04	2.05E-03	3.13E-03	1.49E-04	3.80E-03	2.71E-06	0.0292282	1.02E-02	5.48E-04	2.05E-03	3.13E-03	1.49E-04	2.57E-04	3.80E-03	2.01E-02
1829	494461.06, 3859151.99	1.94E-02	5.41E-04	2.01E-03	3.09E-03	1.48E-04	3.74E-03	2.65E-06	0.02890904	1.01E-02	5.41E-04	2.01E-03	3.09E-03	1.48E-04	2.54E-04	3.74E-03	1.99E-02
1830	494511.06, 3859151.99	1.92E-02	5.34E-04	1.97E-03	3.03E-03	1.45E-04	3.67E-03	2.58E-06	0.02853591	9.99E-03	5.34E-04	1.97E-03	3.03E-03	1.45E-04	2.51E-04	3.67E-03	1.96E-02
1831	494561.06, 3859151.99	1.90E-02	5.28E-04	1.94E-03	3.00E-03	1.44E-04	3.62E-03	2.54E-06	0.02827311	9.91E-03	5.28E-04	1.94E-03	3.00E-03	1.44E-04	2.49E-04	3.62E-03	1.94E-02
1832	494611.06, 3859151.99	1.88E-02	5.20E-04	1.90E-03	2.94E-03	1.42E-04	3.55E-03	2.47E-06	0.0279022	9.81E-03	5.20E-04	1.90E-03	2.94E-03	1.42E-04	2.45E-04	3.55E-03	1.91E-02
1833	494661.06, 3859151.99	1.87E-02	5.14E-04	1.87E-03	2.91E-03	1.40E-04	3.50E-03	2.42E-06	0.02764321	9.74E-03	5.14E-04	1.87E-03	2.91E-03	1.40E-04	2.43E-04	3.50E-03	1.89E-02
1834	494711.06, 3859151.99	1.86E-02	5.09E-04	1.84E-03	2.88E-03	1.39E-04	3.46E-03	2.38E-06	0.0274476	9.69E-03	5.09E-04	1.84E-03	2.88E-03	1.39E-04	2.41E-04	3.46E-03	1.88E-02
1835	494761.06, 3859151.99	1.85E-02	5.01E-04	1.80E-03	2.82E-03	1.37E-04	3.37E-03	2.31E-06	0.02716495	9.64E-03	5.01E-04	1.80E-03	2.82E-03	1.37E-04	2.37E-04	3.37E-03	1.85E-02
1836	494811.06, 3859151.99	1.88E-02	4.94E-04	1.76E-03	2.76E-03	1.34E-04	3.30E-03	2.24E-06	0.02722829	9.74E-03	4.94E-04	1.76E-03	2.76E-03	1.34E-04	2.33E-04	3.30E-03	1.84E-02
1837	494861.06, 3859151.99	1.93E-02	4.89E-04	1.73E-03	2.73E-03	1.33E-04	3.26E-03	2.20E-06	0.02768787	1.00E-02	4.89E-04	1.73E-03	2.73E-03	1.33E-04	2.31E-04	3.26E-03	1.86E-02
1838	494911.06, 3859151.99	2.08E-02	4.80E-04	1.69E-03	2.66E-03	1.30E-04	3.18E-03	2.13E-06	0.02892546	1.07E-02	4.80E-04	1.69E-03	2.66E-03	1.30E-04	2.26E-04	3.18E-03	1.91E-02
1839	494961.06, 3859151.99	2.05E-02	4.69E-04	1.62E-03	2.57E-03	1.26E-04	3.07E-03	2.03E-06	0.02832485	1.05E-02	4.69E-04	1.62E-03	2.57E-03	1.26E-04	2.20E-04	3.07E-03	1.86E-02
1840	495011.06, 3859151.99	2.04E-02	4.61E-04	1.57E-03	2.49E-03	1.22E-04	2.97E-03	1.94E-06	0.02800721	1.05E-02	4.61E-04	1.57E-03	2.49E-03	1.22E-04	2.13E-04	2.97E-03	1.83E-02
1841	495061.06, 3859151.99	2.01E-02	4.58E-04	1.56E-03	2.48E-03	1.22E-04	2.95E-03	1.93E-06	0.02766595	1.03E-02	4.58E-04	1.56E-03	2.48E-03	1.22E-04	2.13E-04	2.95E-03	1.81E-02
1842	495111.06, 3859151.99	1.99E-02	4.55E-04	1.55E-03	2.46E-03	1.21E-04	2.93E-03	1.91E-06	0.02745918	1.03E-02	4.55E-04	1.55E-03	2.46E-03	1.21E-04	2.12E-04	2.93E-03	1.80E-02
1843	495161.06, 3859151.99	1.97E-02	4.55E-04	1.55E-03	2.48E-03	1.22E-04	2.94E-03	1.92E-06	0.02726363	1.01E-02	4.55E-04	1.55E-03	2.48E-03	1.22E-04	2.14E-04	2.94E-03	1.79E-02
1844	495211.06, 3859151.99	2.00E-02	4.52E-04	1.54E-03	2.47E-03	1.21E-04	2.92E-03	1.91E-06	0.02749378	1.03E-02	4.52E-04	1.54E-03	2.47E-03	1.21E-04	2.13E-04	2.92E-03	1.80E-02
1845	495261.06, 3859151.99	1.95E-02	4.49E-04	1.53E-03	2.46E-03	1.21E-04	2.90E-03	1.89E-06	0.02691606	1.00E-02	4.49E-04	1.53E-03	2.46E-03	1.21E-04	2.12E-04	2.90E-03	1.77E-02
1846	495311.06, 3859151.99	1.92E-02	4.47E-04	1.52E-03	2.45E-03	1.20E-04	2.89E-03	1.88E-06	0.02664883	9.90E-03	4.47E-04	1.52E-03	2.45E-03	1.20E-04	2.12E-04	2.89E-03	1.75E-02
1847	495361.06, 3859151.99	1.93E-02	4.44E-04	1.51E-03	2.44E-03	1.20E-04	2.87E-03	1.86E-06	0.02667039	9.93E-03	4.44E-04	1.51E-03	2.44E-03	1.20E-04	2.12E-04	2.87E-03	1.75E-02
1848	495411.06, 3859151.99	1.90E-02	4.44E-04	1.51E-03	2.45E-03	1.21E-04	2.88E-03	1.87E-06	0.02642836	9.80E-03	4.44E-04	1.51E-03	2.45E-03	1.21E-04	2.13E-04	2.88E-03	1.74E-02
1849	495461.06, 3859151.99	1.90E-02	4.42E-04	1.50E-03	2.44E-03	1.20E-04	2.86E-03	1.86E-06	0.02640429	9.80E-03	4.42E-04	1.50E-03	2.44E-03	1.20E-04	2.12E-04	2.86E-03	1.74E-02
1850	495511.06, 3859151.99	1.88E-02	4.38E-04	1.48E-03	2.41E-03	1.19E-04	2.82E-03	1.83E-06	0.02607595	9.69E-03	4.38E-04	1.48E-03	2.41E-03	1.19E-04	2.10E-04	2.82E-03	1.72E-02
1851	495561.06, 3859151.99	1.86E-02	4.35E-04	1.46E-03	2.39E-03	1.18E-04	2.80E-03	1.80E-06	0.02576103	9.56E-03	4.35E-04	1.46E-03	2.39E-03	1.18E-04	2.09E-04	2.80E-03	1.70E-02
1852	495611.06, 3859151.99	1.83E-02	4.31E-04	1.45E-03	2.37E-03	1.17E-04	2.77E-03	1.78E-06	0.02541665	9.42E-03	4.31E-04	1.45E-03	2.37E-03	1.17E-04	2.08E-04	2.77E-03	1.68E-02
1853	495661.06, 3859151.99	1.80E-02	4.29E-04	1.43E-03	2.36E-03	1.16E-04	2.75E-03	1.76E-06	0.02504282	9.26E-03	4.29E-04	1.43E-03	2.36E-03	1.16E-04	2.07E-04	2.75E-03	1.66E-02
1854	494311.06, 3859201.99	1.99E-02	5.74E-04	2.21E-03	3.21E-03	1.51E-04	3.97E-03	2.81E-06	0.02996772	1.04E-02	5.74E-04	2.21E-03	3.21E-03	1.51E-04	2.59E-04	3.97E-03	2.07E-02
1855	494361.06, 3859201.99	1.97E-02	5.69E-04	2.18E-03	3.18E-03	1.50E-04	3.93E-03	2.78E-06	0.02970037	1.03E-02	5.69E-04	2.18E-03	3.18E-03	1.50E-04	2.58E-04	3.93E-03	2.06E-02
1856	494411.06, 3859201.99	1.95E-02	5.63E-04	2.15E-03	3.15E-03	1.49E-04	3.88E-03	2.73E-06	0.02939746	1.02E-02	5.63E-04	2.15E-03	3.15E-03	1.49E-04	2.56E-04	3.88E-03	2.03E-02
1857	494461.06, 3859201.99	1.93E-02	5.54E-04	2.10E-03	3.10E-03	1.47E-04	3.80E-03	2.66E-06	0.02903731	1.01E-02	5.54E-04	2.10E-03	3.10E-03	1.47E-04	2.53E-04	3.80E-03	2.00E-02
1858	494511.06, 3859201.99	1.92E-02	5.48E-04	2.07E-03	3.06E-03	1.46E-04	3.75E-03	2.62E-06	0.0287443	1.00E-02	5.48E-04	2.07E-03	3.06E-03	1.46E-04	2.51E-04	3.75E-03	1.98E-02
1859	494561.06, 3859201.99	1.90E-02	5.40E-04	2.02E-03	3.01E-03	1.44E-04	3.67E-03	2.54E-06	0.02836598	9.90E-03	5.40E-04	2.02E-03	3.01E-03	1.44E-04	2.48E-04	3.67E-03	1.95E-02
1860	494611.06, 3859201.99	1.88E-02	5.33E-04	1.98E-03	2.96E-03	1.42E-04	3.61E-03	2.49E-06	0.02805513	9.82E-03	5.33E-04	1.98E-03	2.96E-03	1.42E-04	2.45E-04	3.61E-03	1.93E-02
1861	494661.06, 3859201.99	1.87E-02	5.27E-04	1.95E-03	2.93E-03	1.41E-04	3.56E-03	2.44E-06	0.02779554	9.74E-03	5.27E-04	1.95E-03	2.93E-03	1.41E-04	2.43E-04	3.56E-03	1.91E-02
1862	494711.06, 3859201.99	1.86E-02	5.21E-04	1.92E-03	2.89E-03	1.39E-04	3.51E-03	2.40E-06	0.02757984	9.69E-03	5.21E-04	1.92E-03	2.89E-03	1.39E-04	2.41E-04	3.51E-03	1.89E-02
1863	494761.06, 3859201.99	1.85E-02	5.12E-04	1.87E-03	2.84E-03	1.37E-04	3.43E-03	2.33E-06	0.0273301	9.65E-03	5.12E-04	1.87E-03	2.84E-03	1.37E-04	2.37E-04	3.43E-03	1.87E-02
1864	494811.06, 3859201.99	1.88E-02	5.05E-04	1.83E-03	2.79E-03	1.35E-04	3.36E-03	2.27E-06	0.02740531	9.76E-03	5.05E-04	1.83E-03	2.79E-03	1.35E-04	2.34E-04	3.36E-03	1.86E-02
1865	494861.06, 3859201.99	1.94E-02	4.97E-04	1.78E-03	2.73E-03	1.33E-04	3.29E-03	2.20E-06	0.02783458	1.01E-02	4.97E-04	1.78E-03	2.73E-03	1.33E-04	2.30E-04	3.29E-03	1.87E-02
1866	494911.06, 3859201.99	1.88E-02	4.89E-04	1.73E-03	2.66E-03	1.29E-04	3.20E-03	2.12E-06	0.02702758	9.76E-03	4.89E-04	1.73E-03	2.66E-03	1.29E-04	2.25E-04	3.20E-03	1.82E-02
1867	494961.06, 3859201.99	1.82E-02	4.79E-04	1.68E-03	2.58E-03	1.26E-04	3.11E-03	2.04E-06	0.02619213	9.45E-03	4.79E-04	1.68E-03	2.58E-03	1.26E-04	2.20E-04	3.11E-03	1.76E-02
1868	495011.06, 3859201.99	1.77E-02	4.68E-04	1.61E-03	2.48E-03	1.22E-04	2.98E-03	1.93E-06	0.02540487	9.20E-03	4.68E-04	1.61E-03	2.48E-03	1.22E-04	2.12E-04	2.98E-03	1.71E-02
1869	495061.06, 3859201.99	1.77E-02	4.70E-04	1.63E-03	2.52E-03	1.23E-04	3.02E-03	1.96E-06	0.02546275	9.19E-03	4.70E-04	1.63E-03	2.52E-03	1.23E-04	2.15E-04	3.02E-03	1.72E-02
1870	495111.06, 3859201.99	1.76E-02	4.68E-04	1.62E-03	2.52E-03	1.23E-04	3.01E-03	1.96E-06	0.02531942	9.13E-03	4.68E-04	1.62E-03	2.52E-03	1.23E-04	2.15E-04	3.01E-03	1.71E-02
1871	495161.06, 3859201.99	1.75E-02	4.65E-04	1.61E-03	2.51E-03	1.23E-04	2.99E-03	1.95E-06	0.02515711	9.06E-03	4.65E-04	1.61E-03	2.51E-03	1.23E-04	2.15E-04	2.99E-03	1.70E-02
1872	495211.06, 3859201.99	1.73E-02	4.61E-04	1.59E-03	2.49E-03	1.22E-04	2.96E-03	1.92E-06	0.02493268	8.99E-03	4.61E-04	1.59E-03	2.49E-03	1.22E-04	2.13E-04	2.96E-03	1.68E-02
1873	495261.06, 3859201.99	1.72E-02	4.60E-04	1.59E-03	2.49E-03	1.22E-04	2.96E-03	1.92E-06	0.0248051	8.93E-03	4.60E-04	1.59E-03	2.49E-03	1.22E-04	2.14E-04	2.96E-03	1.68E-02
1874	495311.06, 3859201.99	1.71E-02	4.58E-04	1.58E-03	2.48E-03	1.21E-04	2.94E-03	1.90E-06	0.02464518	8.87E-03	4.58E-04	1.58E-03	2.48E-03	1.21E-04	2.13E-04	2.94E-03	1.67E-02
1875	495361.06, 3859201.99	1.70E-02	4.55E-04	1.57E-03	2.48E-03	1.21E-04	2.93E-03	1.90E-06	0.02450616	8.81E-03	4.55E-04	1.57E-03	2.48E-03	1.21E-04	2.13E-04	2.93E-03	1.66E-02
1876	495411.06, 3859201.99	1.69E-02	4.54E-04	1.57E-03	2.48E-03	1.21E-04	2.93E-03	1.90E-06	0.0244306	8.76E-03	4.54E-04	1.57E-03	2.48E-03	1.21E-04	2.14E-04	2.93E-03	1.65E-02
1877	495461.06, 3859201.99	1.67E-02	4.52E-04	1.55E-03	2.47E-03	1.21E-04	2.91E-03	1.88E-06	0.02423819	8.69E-03	4.52E-04	1.55E-03	2.47E-03	1.21E-04	2.13E-04	2.91E-03	1.64E-02
1878	495511.06, 3859201.99	1.66E-02	4.49E-04	1.54E-03	2.46E-03	1.20E-04	2.89E-03	1.86E-06	0.02405318	8.63E-03	4.49E-04	1.54E-03	2.46E-03	1.20E-04	2.12E-04	2.89E-03	1.63E-02
1879	495561.06, 3859201.99	1.64E-02	4.44E-04	1.52E-03	2.42E-03	1.19E-04	2.85E-03	1.83E-06	0.02377661	8.54E-03	4.44E-04	1.52E-03	2.42E-03	1.19E-04	2.10E-04	2.85E-03	1.61E-02
1880	495611.06, 3859201.99	1.63E-02	4.41E-04	1.50E-03	2.40E-03	1.18E-04	2.82E-03	1.80E-06	0.02354177	8.46E-03	4.41E-04	1.50E-03	2.40E-03	1.18E-04	2.09E-04	2.82E-03	1.59E-02

1881	495661.06, 3859201.99	1.61E-02	4.38E-04	1.48E-03	2.39E-03	1.17E-04	2.80E-03	1.79E-06	0.02332899	8.38E-03	4.38E-04	1.48E-03	2.39E-03	1.17E-04	2.08E-04	2.80E-03	1.58E-02
1882	494311.06, 3859251.99	1.98E-02	5.90E-04	2.32E-03	3.22E-03	1.51E-04	4.05E-03	2.83E-06	0.03014746	1.04E-02	5.90E-04	2.32E-03	3.22E-03	1.51E-04	2.58E-04	4.05E-03	2.10E-02
1883	494361.06, 3859251.99	1.96E-02	5.83E-04	2.28E-03	3.19E-03	1.50E-04	3.99E-03	2.78E-06	0.02983147	1.03E-02	5.83E-04	2.28E-03	3.19E-03	1.50E-04	2.56E-04	3.99E-03	2.07E-02
1884	494411.06, 3859251.99	1.95E-02	5.74E-04	2.23E-03	3.14E-03	1.48E-04	3.92E-03	2.71E-06	0.02945918	1.02E-02	5.74E-04	2.23E-03	3.14E-03	1.48E-04	2.54E-04	3.92E-03	2.04E-02
1885	494461.06, 3859251.99	1.93E-02	5.68E-04	2.19E-03	3.11E-03	1.47E-04	3.86E-03	2.67E-06	0.02914815	1.01E-02	5.68E-04	2.19E-03	3.11E-03	1.47E-04	2.52E-04	3.86E-03	2.02E-02
1886	494511.06, 3859251.99	1.91E-02	5.58E-04	2.14E-03	3.05E-03	1.45E-04	3.78E-03	2.60E-06	0.02875139	9.97E-03	5.58E-04	2.14E-03	3.05E-03	1.45E-04	2.49E-04	3.78E-03	1.99E-02
1887	494561.06, 3859251.99	1.89E-02	5.52E-04	2.10E-03	3.02E-03	1.43E-04	3.73E-03	2.55E-06	0.02846706	9.89E-03	5.52E-04	2.10E-03	3.02E-03	1.43E-04	2.47E-04	3.73E-03	1.97E-02
1888	494611.06, 3859251.99	1.88E-02	5.44E-04	2.06E-03	2.97E-03	1.41E-04	3.66E-03	2.49E-06	0.02813663	9.80E-03	5.44E-04	2.06E-03	2.97E-03	1.41E-04	2.44E-04	3.66E-03	1.94E-02
1889	494661.06, 3859251.99	1.86E-02	5.39E-04	2.03E-03	2.94E-03	1.40E-04	3.62E-03	2.46E-06	0.02791889	9.74E-03	5.39E-04	2.03E-03	2.94E-03	1.40E-04	2.43E-04	3.62E-03	1.92E-02
1890	494711.06, 3859251.99	1.85E-02	5.33E-04	2.00E-03	2.91E-03	1.39E-04	3.56E-03	2.41E-06	0.02768195	9.68E-03	5.33E-04	2.00E-03	2.91E-03	1.39E-04	2.40E-04	3.56E-03	1.91E-02
1891	494761.06, 3859251.99	1.85E-02	5.19E-04	1.91E-03	2.82E-03	1.36E-04	3.44E-03	2.30E-06	0.02729499	9.62E-03	5.19E-04	1.91E-03	2.82E-03	1.36E-04	2.35E-04	3.44E-03	1.87E-02
1892	494811.06, 3859251.99	1.87E-02	5.17E-04	1.90E-03	2.81E-03	1.35E-04	3.42E-03	2.28E-06	0.02749102	9.74E-03	5.17E-04	1.90E-03	2.81E-03	1.35E-04	2.34E-04	3.42E-03	1.88E-02
1893	494861.06, 3859251.99	1.94E-02	5.04E-04	1.83E-03	2.72E-03	1.32E-04	3.31E-03	2.19E-06	0.02787299	1.00E-02	5.04E-04	1.83E-03	2.72E-03	1.32E-04	2.29E-04	3.31E-03	1.88E-02
1894	494911.06, 3859251.99	1.86E-02	4.97E-04	1.78E-03	2.65E-03	1.29E-04	3.22E-03	2.11E-06	0.02685885	9.65E-03	4.97E-04	1.78E-03	2.65E-03	1.29E-04	2.24E-04	3.22E-03	1.82E-02
1895	494961.06, 3859251.99	1.80E-02	4.91E-04	1.75E-03	2.61E-03	1.27E-04	3.17E-03	2.07E-06	0.02617479	9.37E-03	4.91E-04	1.75E-03	2.61E-03	1.27E-04	2.21E-04	3.17E-03	1.77E-02
1896	495011.06, 3859251.99	1.76E-02	4.85E-04	1.72E-03	2.57E-03	1.25E-04	3.11E-03	2.02E-06	0.02565826	9.18E-03	4.85E-04	1.72E-03	2.57E-03	1.25E-04	2.18E-04	3.11E-03	1.74E-02
1897	495061.06, 3859251.99	1.75E-02	4.83E-04	1.71E-03	2.57E-03	1.25E-04	3.11E-03	2.01E-06	0.02547261	9.10E-03	4.83E-04	1.71E-03	2.57E-03	1.25E-04	2.18E-04	3.11E-03	1.73E-02
1898	495111.06, 3859251.99	1.73E-02	4.80E-04	1.69E-03	2.55E-03	1.24E-04	3.08E-03	1.99E-06	0.02521235	9.00E-03	4.80E-04	1.69E-03	2.55E-03	1.24E-04	2.17E-04	3.08E-03	1.71E-02
1899	495161.06, 3859251.99	1.71E-02	4.77E-04	1.68E-03	2.55E-03	1.24E-04	3.06E-03	1.98E-06	0.02502743	8.92E-03	4.77E-04	1.68E-03	2.55E-03	1.24E-04	2.17E-04	3.06E-03	1.70E-02
1900	495211.06, 3859251.99	1.70E-02	4.73E-04	1.66E-03	2.53E-03	1.23E-04	3.03E-03	1.96E-06	0.02478711	8.84E-03	4.73E-04	1.66E-03	2.53E-03	1.23E-04	2.15E-04	3.03E-03	1.69E-02
1901	495261.06, 3859251.99	1.69E-02	4.69E-04	1.64E-03	2.52E-03	1.23E-04	3.02E-03	1.94E-06	0.02463584	8.78E-03	4.69E-04	1.64E-03	2.52E-03	1.23E-04	2.16E-04	3.02E-03	1.68E-02
1902	495311.06, 3859251.99	1.67E-02	4.69E-04	1.64E-03	2.52E-03	1.23E-04	3.01E-03	1.94E-06	0.02449698	8.72E-03	4.69E-04	1.64E-03	2.52E-03	1.23E-04	2.15E-04	3.01E-03	1.67E-02
1903	495361.06, 3859251.99	1.66E-02	4.66E-04	1.63E-03	2.51E-03	1.22E-04	2.99E-03	1.93E-06	0.02432206	8.65E-03	4.66E-04	1.63E-03	2.51E-03	1.22E-04	2.15E-04	2.99E-03	1.66E-02
1904	495411.06, 3859251.99	1.65E-02	4.65E-04	1.63E-03	2.51E-03	1.22E-04	2.99E-03	1.93E-06	0.02422926	8.60E-03	4.65E-04	1.63E-03	2.51E-03	1.22E-04	2.15E-04	2.99E-03	1.65E-02
1905	495461.06, 3859251.99	1.64E-02	4.62E-04	1.61E-03	2.50E-03	1.22E-04	2.97E-03	1.91E-06	0.02405314	8.54E-03	4.62E-04	1.61E-03	2.50E-03	1.22E-04	2.14E-04	2.97E-03	1.64E-02
1906	495511.06, 3859251.99	1.62E-02	4.58E-04	1.59E-03	2.47E-03	1.20E-04	2.93E-03	1.87E-06	0.02377642	8.45E-03	4.58E-04	1.59E-03	2.47E-03	1.20E-04	2.12E-04	2.93E-03	1.62E-02
1907	495561.06, 3859251.99	1.61E-02	4.54E-04	1.57E-03	2.45E-03	1.19E-04	2.90E-03	1.85E-06	0.0235784	8.38E-03	4.54E-04	1.57E-03	2.45E-03	1.19E-04	2.11E-04	2.90E-03	1.61E-02
1908	495611.06, 3859251.99	1.59E-02	4.50E-04	1.55E-03	2.42E-03	1.18E-04	2.86E-03	1.82E-06	0.02332166	8.30E-03	4.50E-04	1.55E-03	2.42E-03	1.18E-04	2.09E-04	2.86E-03	1.59E-02
1909	495661.06, 3859251.99	1.58E-02	4.47E-04	1.53E-03	2.41E-03	1.17E-04	2.84E-03	1.80E-06	0.02310955	8.22E-03	4.47E-04	1.53E-03	2.41E-03	1.17E-04	2.08E-04	2.84E-03	1.58E-02
1910	494311.06, 3859301.99	1.97E-02	6.06E-04	2.43E-03	3.23E-03	1.50E-04	4.12E-03	2.84E-06	0.03028433	1.04E-02	6.06E-04	2.43E-03	3.23E-03	1.50E-04	2.56E-04	4.12E-03	2.12E-02
1911	494361.06, 3859301.99	1.96E-02	5.98E-04	2.39E-03	3.19E-03	1.49E-04	4.06E-03	2.78E-06	0.02995279	1.03E-02	5.98E-04	2.39E-03	3.19E-03	1.49E-04	2.55E-04	4.06E-03	2.09E-02
1912	494411.06, 3859301.99	1.94E-02	5.89E-04	2.33E-03	3.15E-03	1.47E-04	3.98E-03	2.72E-06	0.0295669	1.02E-02	5.89E-04	2.33E-03	3.15E-03	1.47E-04	2.52E-04	3.98E-03	2.06E-02
1913	494461.06, 3859301.99	1.92E-02	5.80E-04	2.27E-03	3.10E-03	1.45E-04	3.91E-03	2.66E-06	0.02919405	1.01E-02	5.80E-04	2.27E-03	3.10E-03	1.45E-04	2.50E-04	3.91E-03	2.03E-02
1914	494511.06, 3859301.99	1.90E-02	5.72E-04	2.23E-03	3.06E-03	1.44E-04	3.84E-03	2.60E-06	0.02885196	9.96E-03	5.72E-04	2.23E-03	3.06E-03	1.44E-04	2.48E-04	3.84E-03	2.00E-02
1915	494561.06, 3859301.99	1.89E-02	5.65E-04	2.19E-03	3.02E-03	1.43E-04	3.78E-03	2.55E-06	0.02855445	9.87E-03	5.65E-04	2.19E-03	3.02E-03	1.43E-04	2.46E-04	3.78E-03	1.98E-02
1916	494611.06, 3859301.99	1.87E-02	5.58E-04	2.15E-03	2.99E-03	1.41E-04	3.72E-03	2.51E-06	0.0282502	9.78E-03	5.58E-04	2.15E-03	2.99E-03	1.41E-04	2.44E-04	3.72E-03	1.96E-02
1917	494661.06, 3859301.99	1.86E-02	5.51E-04	2.11E-03	2.95E-03	1.40E-04	3.67E-03	2.46E-06	0.0279783	9.71E-03	5.51E-04	2.11E-03	2.95E-03	1.40E-04	2.41E-04	3.67E-03	1.94E-02
1918	494711.06, 3859301.99	1.84E-02	5.43E-04	2.06E-03	2.90E-03	1.38E-04	3.60E-03	2.40E-06	0.02769427	9.65E-03	5.43E-04	2.06E-03	2.90E-03	1.38E-04	2.39E-04	3.60E-03	1.91E-02
1919	494761.06, 3859301.99	1.84E-02	5.36E-04	2.02E-03	2.86E-03	1.36E-04	3.54E-03	2.35E-06	0.02751785	9.62E-03	5.36E-04	2.02E-03	2.86E-03	1.36E-04	2.36E-04	3.54E-03	1.90E-02
1920	494811.06, 3859301.99	1.86E-02	5.27E-04	1.97E-03	2.81E-03	1.34E-04	3.46E-03	2.28E-06	0.02748725	9.70E-03	5.27E-04	1.97E-03	2.81E-03	1.34E-04	2.33E-04	3.46E-03	1.88E-02
1921	494861.06, 3859301.99	1.87E-02	5.16E-04	1.90E-03	2.72E-03	1.31E-04	3.35E-03	2.19E-06	0.02733025	9.74E-03	5.16E-04	1.90E-03	2.72E-03	1.31E-04	2.28E-04	3.35E-03	1.86E-02
1922	494911.06, 3859301.99	1.86E-02	5.09E-04	1.86E-03	2.68E-03	1.29E-04	3.29E-03	2.14E-06	0.02704404	9.66E-03	5.09E-04	1.86E-03	2.68E-03	1.29E-04	2.25E-04	3.29E-03	1.84E-02
1923	494961.06, 3859301.99	1.79E-02	4.98E-04	1.79E-03	2.60E-03	1.26E-04	3.18E-03	2.05E-06	0.02607834	9.31E-03	4.98E-04	1.79E-03	2.60E-03	1.26E-04	2.20E-04	3.18E-03	1.77E-02
1924	495011.06, 3859301.99	1.75E-02	4.92E-04	1.76E-03	2.57E-03	1.25E-04	3.14E-03	2.01E-06	0.02562897	9.14E-03	4.92E-04	1.76E-03	2.57E-03	1.25E-04	2.18E-04	3.14E-03	1.74E-02
1925	495061.06, 3859301.99	1.74E-02	4.94E-04	1.77E-03	2.61E-03	1.26E-04	3.17E-03	2.05E-06	0.02558649	9.08E-03	4.94E-04	1.77E-03	2.61E-03	1.26E-04	2.20E-04	3.17E-03	1.75E-02
1926	495111.06, 3859301.99	1.72E-02	4.88E-04	1.74E-03	2.57E-03	1.25E-04	3.11E-03	2.00E-06	0.02520097	8.95E-03	4.88E-04	1.74E-03	2.57E-03	1.25E-04	2.17E-04	3.11E-03	1.72E-02
1927	495161.06, 3859301.99	1.70E-02	4.86E-04	1.73E-03	2.56E-03	1.24E-04	3.10E-03	1.99E-06	0.02499993	8.87E-03	4.86E-04	1.73E-03	2.56E-03	1.24E-04	2.17E-04	3.10E-03	1.71E-02
1928	495211.06, 3859301.99	1.69E-02	4.85E-04	1.73E-03	2.57E-03	1.24E-04	3.10E-03	1.99E-06	0.02490278	8.81E-03	4.85E-04	1.73E-03	2.57E-03	1.24E-04	2.17E-04	3.10E-03	1.70E-02
1929	495261.06, 3859301.99	1.68E-02	4.83E-04	1.72E-03	2.57E-03	1.24E-04	3.09E-03	1.99E-06	0.02474633	8.75E-03	4.83E-04	1.72E-03	2.57E-03	1.24E-04	2.17E-04	3.09E-03	1.70E-02
1930	495311.06, 3859301.99	1.66E-02	4.79E-04	1.70E-03	2.54E-03	1.23E-04	3.05E-03	1.96E-06	0.02447858	8.66E-03	4.79E-04	1.70E-03	2.54E-03	1.23E-04	2.15E-04	3.05E-03	1.68E-02
1931	495361.06, 3859301.99	1.65E-02	4.77E-04	1.69E-03	2.54E-03	1.23E-04	3.05E-03	1.95E-06	0.02435533	8.60E-03	4.77E-04	1.69E-03	2.54E-03	1.23E-04	2.16E-04	3.05E-03	1.67E-02
1932	495411.06, 3859301.99	1.63E-02	4.75E-04	1.68E-03	2.53E-03	1.23E-04	3.03E-03	1.94E-06	0.02418871	8.54E-03	4.75E-04	1.68E-03	2.53E-03	1.23E-04	2.15E-04	3.03E-03	1.66E-02
1933	495461.06, 3859301.99	1.62E-02	4.72E-04	1.67E-03	2.53E-03	1.22E-04	3.02E-03	1.93E-06	0.02404587	8.48E-03	4.72E-04	1.67E-03	2.53E-03	1.22E-04	2.15E-04	3.02E-03	1.65E-02
1934	495511.06, 3859301.99	1.61E-02	4.68E-04	1.65E-03	2.50E-03	1.21E-04	2.98E-03	1.90E-06	0.02379728	8.40E-03	4.68E-04	1.65E-03	2.50E-03	1.21E-04	2.13E-04	2.98E-03	1.63E-02

1935	495561.06, 3859301.99	1.59E-02	4.62E-04	1.61E-03	2.46E-03	1.19E-04	2.93E-03	1.86E-06	0.02348268	8.30E-03	4.62E-04	1.61E-03	2.46E-03	1.19E-04	2.10E-04	2.93E-03	1.61E-02
1936	495611.06, 3859301.99	1.58E-02	4.59E-04	1.60E-03	2.44E-03	1.19E-04	2.90E-03	1.84E-06	0.02329002	8.24E-03	4.59E-04	1.60E-03	2.44E-03	1.19E-04	2.09E-04	2.90E-03	1.60E-02
1937	495661.06, 3859301.99	1.56E-02	4.55E-04	1.58E-03	2.42E-03	1.18E-04	2.88E-03	1.82E-06	0.02307802	8.16E-03	4.55E-04	1.58E-03	2.42E-03	1.18E-04	2.08E-04	2.88E-03	1.58E-02
1938	494311.06, 3859351.99	1.96E-02	6.20E-04	2.54E-03	3.22E-03	1.49E-04	4.18E-03	2.82E-06	0.03030118	1.03E-02	6.20E-04	2.54E-03	3.22E-03	1.49E-04	2.54E-04	4.18E-03	2.13E-02
1939	494361.06, 3859351.99	1.94E-02	6.12E-04	2.48E-03	3.18E-03	1.48E-04	4.11E-03	2.77E-06	0.02998213	1.02E-02	6.12E-04	2.48E-03	3.18E-03	1.48E-04	2.52E-04	4.11E-03	2.10E-02
1940	494411.06, 3859351.99	1.93E-02	6.02E-04	2.42E-03	3.13E-03	1.46E-04	4.03E-03	2.70E-06	0.02961375	1.01E-02	6.02E-04	2.42E-03	3.13E-03	1.46E-04	2.50E-04	4.03E-03	2.07E-02
1941	494461.06, 3859351.99	1.91E-02	5.93E-04	2.36E-03	3.09E-03	1.44E-04	3.95E-03	2.64E-06	0.02925204	1.00E-02	5.93E-04	2.36E-03	3.09E-03	1.44E-04	2.48E-04	3.95E-03	2.04E-02
1942	494511.06, 3859351.99	1.89E-02	5.85E-04	2.31E-03	3.05E-03	1.43E-04	3.89E-03	2.59E-06	0.02891359	9.93E-03	5.85E-04	2.31E-03	3.05E-03	1.43E-04	2.46E-04	3.89E-03	2.02E-02
1943	494561.06, 3859351.99	1.88E-02	5.78E-04	2.27E-03	3.02E-03	1.42E-04	3.84E-03	2.55E-06	0.02864162	9.85E-03	5.78E-04	2.27E-03	3.02E-03	1.42E-04	2.44E-04	3.84E-03	2.00E-02
1944	494611.06, 3859351.99	1.86E-02	5.71E-04	2.23E-03	2.99E-03	1.41E-04	3.78E-03	2.51E-06	0.02834537	9.77E-03	5.71E-04	2.23E-03	2.99E-03	1.41E-04	2.42E-04	3.78E-03	1.97E-02
1945	494661.06, 3859351.99	1.85E-02	5.64E-04	2.19E-03	2.95E-03	1.39E-04	3.72E-03	2.46E-06	0.02806631	9.70E-03	5.64E-04	2.19E-03	2.95E-03	1.39E-04	2.40E-04	3.72E-03	1.95E-02
1946	494711.06, 3859351.99	1.84E-02	5.55E-04	2.14E-03	2.91E-03	1.37E-04	3.65E-03	2.40E-06	0.02776268	9.63E-03	5.55E-04	2.14E-03	2.91E-03	1.37E-04	2.38E-04	3.65E-03	1.92E-02
1947	494761.06, 3859351.99	1.83E-02	5.43E-04	2.06E-03	2.85E-03	1.35E-04	3.55E-03	2.33E-06	0.02746434	9.58E-03	5.43E-04	2.06E-03	2.85E-03	1.35E-04	2.35E-04	3.55E-03	1.90E-02
1948	494811.06, 3859351.99	1.85E-02	5.32E-04	1.99E-03	2.76E-03	1.32E-04	3.44E-03	2.23E-06	0.02735092	9.65E-03	5.32E-04	1.99E-03	2.76E-03	1.32E-04	2.29E-04	3.44E-03	1.87E-02
1949	494861.06, 3859351.99	1.91E-02	5.26E-04	1.96E-03	2.73E-03	1.31E-04	3.39E-03	2.19E-06	0.02779583	9.92E-03	5.26E-04	1.96E-03	2.73E-03	1.31E-04	2.27E-04	3.39E-03	1.89E-02
1950	494911.06, 3859351.99	1.85E-02	5.22E-04	1.93E-03	2.71E-03	1.30E-04	3.35E-03	2.16E-06	0.02718524	9.66E-03	5.22E-04	1.93E-03	2.71E-03	1.30E-04	2.26E-04	3.35E-03	1.85E-02
1951	494961.06, 3859351.99	1.79E-02	5.15E-04	1.90E-03	2.67E-03	1.28E-04	3.30E-03	2.12E-06	0.02644325	9.36E-03	5.15E-04	1.90E-03	2.67E-03	1.28E-04	2.24E-04	3.30E-03	1.81E-02
1952	495011.06, 3859351.99	1.76E-02	5.10E-04	1.87E-03	2.65E-03	1.27E-04	3.26E-03	2.09E-06	0.02599564	9.18E-03	5.10E-04	1.87E-03	2.65E-03	1.27E-04	2.22E-04	3.26E-03	1.78E-02
1953	495061.06, 3859351.99	1.74E-02	5.10E-04	1.87E-03	2.66E-03	1.28E-04	3.27E-03	2.10E-06	0.025833	9.09E-03	5.10E-04	1.87E-03	2.66E-03	1.28E-04	2.23E-04	3.27E-03	1.78E-02
1954	495111.06, 3859351.99	1.72E-02	5.04E-04	1.84E-03	2.63E-03	1.27E-04	3.23E-03	2.07E-06	0.02549855	8.97E-03	5.04E-04	1.84E-03	2.63E-03	1.27E-04	2.21E-04	3.23E-03	1.75E-02
1955	495161.06, 3859351.99	1.70E-02	5.01E-04	1.82E-03	2.62E-03	1.26E-04	3.20E-03	2.05E-06	0.02526042	8.88E-03	5.01E-04	1.82E-03	2.62E-03	1.26E-04	2.20E-04	3.20E-03	1.74E-02
1956	495211.06, 3859351.99	1.68E-02	4.98E-04	1.81E-03	2.60E-03	1.25E-04	3.17E-03	2.03E-06	0.0250286	8.80E-03	4.98E-04	1.81E-03	2.60E-03	1.25E-04	2.19E-04	3.17E-03	1.72E-02
1957	495261.06, 3859351.99	1.67E-02	4.95E-04	1.80E-03	2.60E-03	1.25E-04	3.16E-03	2.02E-06	0.02485722	8.73E-03	4.95E-04	1.80E-03	2.60E-03	1.25E-04	2.19E-04	3.16E-03	1.71E-02
1958	495311.06, 3859351.99	1.65E-02	4.91E-04	1.77E-03	2.58E-03	1.24E-04	3.12E-03	1.99E-06	0.02460681	8.64E-03	4.91E-04	1.77E-03	2.58E-03	1.24E-04	2.17E-04	3.12E-03	1.69E-02
1959	495361.06, 3859351.99	1.64E-02	4.87E-04	1.75E-03	2.56E-03	1.23E-04	3.10E-03	1.97E-06	0.02439997	8.57E-03	4.87E-04	1.75E-03	2.56E-03	1.23E-04	2.16E-04	3.10E-03	1.68E-02
1960	495411.06, 3859351.99	1.62E-02	4.85E-04	1.74E-03	2.56E-03	1.23E-04	3.09E-03	1.96E-06	0.0242366	8.50E-03	4.85E-04	1.74E-03	2.56E-03	1.23E-04	2.16E-04	3.09E-03	1.67E-02
1961	495461.06, 3859351.99	1.61E-02	4.84E-04	1.73E-03	2.56E-03	1.23E-04	3.08E-03	1.96E-06	0.02410717	8.44E-03	4.84E-04	1.73E-03	2.56E-03	1.23E-04	2.16E-04	3.08E-03	1.66E-02
1962	495511.06, 3859351.99	1.60E-02	4.78E-04	1.70E-03	2.52E-03	1.21E-04	3.03E-03	1.92E-06	0.02382069	8.36E-03	4.78E-04	1.70E-03	2.52E-03	1.21E-04	2.13E-04	3.03E-03	1.64E-02
1963	495561.06, 3859351.99	1.58E-02	4.74E-04	1.68E-03	2.50E-03	1.20E-04	2.99E-03	1.89E-06	0.02358411	8.28E-03	4.74E-04	1.68E-03	2.50E-03	1.20E-04	2.12E-04	2.99E-03	1.63E-02
1964	495611.06, 3859351.99	1.57E-02	4.70E-04	1.66E-03	2.48E-03	1.20E-04	2.97E-03	1.87E-06	0.0233887	8.21E-03	4.70E-04	1.66E-03	2.48E-03	1.20E-04	2.11E-04	2.97E-03	1.61E-02
1965	495661.06, 3859351.99	1.55E-02	4.65E-04	1.63E-03	2.44E-03	1.18E-04	2.92E-03	1.84E-06	0.023106	8.13E-03	4.65E-04	1.63E-03	2.44E-03	1.18E-04	2.08E-04	2.92E-03	1.59E-02
1966	494311.06, 3859401.99	1.94E-02	6.36E-04	2.66E-03	3.21E-03	1.48E-04	4.25E-03	2.82E-06	0.03034792	1.02E-02	6.36E-04	2.66E-03	3.21E-03	1.48E-04	2.51E-04	4.25E-03	2.14E-02
1967	494361.06, 3859401.99	1.93E-02	6.25E-04	2.58E-03	3.17E-03	1.46E-04	4.16E-03	2.75E-06	0.02997861	1.02E-02	6.25E-04	2.58E-03	3.17E-03	1.46E-04	2.49E-04	4.16E-03	2.11E-02
1968	494411.06, 3859401.99	1.92E-02	6.15E-04	2.51E-03	3.12E-03	1.45E-04	4.07E-03	2.68E-06	0.0296219	1.01E-02	6.15E-04	2.51E-03	3.12E-03	1.45E-04	2.47E-04	4.07E-03	2.08E-02
1969	494461.06, 3859401.99	1.90E-02	6.06E-04	2.45E-03	3.08E-03	1.43E-04	4.00E-03	2.63E-06	0.02930526	1.00E-02	6.06E-04	2.45E-03	3.08E-03	1.43E-04	2.45E-04	4.00E-03	2.05E-02
1970	494511.06, 3859401.99	1.89E-02	5.99E-04	2.42E-03	3.06E-03	1.42E-04	3.96E-03	2.60E-06	0.0290372	9.92E-03	5.99E-04	2.42E-03	3.06E-03	1.42E-04	2.44E-04	3.96E-03	2.03E-02
1971	494561.06, 3859401.99	1.87E-02	5.93E-04	2.37E-03	3.03E-03	1.41E-04	3.90E-03	2.56E-06	0.02875658	9.84E-03	5.93E-04	2.37E-03	3.03E-03	1.41E-04	2.43E-04	3.90E-03	2.01E-02
1972	494611.06, 3859401.99	1.86E-02	5.85E-04	2.32E-03	2.99E-03	1.40E-04	3.83E-03	2.51E-06	0.02844901	9.76E-03	5.85E-04	2.32E-03	2.99E-03	1.40E-04	2.41E-04	3.83E-03	1.99E-02
1973	494661.06, 3859401.99	1.85E-02	5.79E-04	2.28E-03	2.96E-03	1.39E-04	3.79E-03	2.47E-06	0.0282093	9.70E-03	5.79E-04	2.28E-03	2.96E-03	1.39E-04	2.39E-04	3.79E-03	1.97E-02
1974	494711.06, 3859401.99	1.84E-02	5.71E-04	2.24E-03	2.93E-03	1.37E-04	3.73E-03	2.43E-06	0.02796446	9.64E-03	5.71E-04	2.24E-03	2.93E-03	1.37E-04	2.37E-04	3.73E-03	1.95E-02
1975	494761.06, 3859401.99	1.83E-02	5.57E-04	2.15E-03	2.87E-03	1.35E-04	3.63E-03	2.35E-06	0.02763126	9.59E-03	5.57E-04	2.15E-03	2.87E-03	1.35E-04	2.34E-04	3.63E-03	1.92E-02
1976	494811.06, 3859401.99	1.85E-02	5.50E-04	2.11E-03	2.82E-03	1.33E-04	3.55E-03	2.29E-06	0.02763683	9.66E-03	5.50E-04	2.11E-03	2.82E-03	1.33E-04	2.31E-04	3.55E-03	1.91E-02
1977	494861.06, 3859401.99	1.90E-02	5.40E-04	2.04E-03	2.76E-03	1.31E-04	3.46E-03	2.22E-06	0.02795367	9.92E-03	5.40E-04	2.04E-03	2.76E-03	1.31E-04	2.28E-04	3.46E-03	1.91E-02
1978	494911.06, 3859401.99	1.85E-02	5.31E-04	2.00E-03	2.72E-03	1.30E-04	3.40E-03	2.17E-06	0.02725067	9.64E-03	5.31E-04	2.00E-03	2.72E-03	1.30E-04	2.26E-04	3.40E-03	1.86E-02
1979	494961.06, 3859401.99	1.79E-02	5.28E-04	1.98E-03	2.70E-03	1.29E-04	3.37E-03	2.15E-06	0.0266048	9.36E-03	5.28E-04	1.98E-03	2.70E-03	1.29E-04	2.24E-04	3.37E-03	1.83E-02
1980	495011.06, 3859401.99	1.76E-02	5.24E-04	1.96E-03	2.69E-03	1.28E-04	3.34E-03	2.13E-06	0.0262074	9.19E-03	5.24E-04	1.96E-03	2.69E-03	1.28E-04	2.23E-04	3.34E-03	1.81E-02
1981	495061.06, 3859401.99	1.73E-02	5.20E-04	1.93E-03	2.68E-03	1.28E-04	3.32E-03	2.12E-06	0.02591434	9.07E-03	5.20E-04	1.93E-03	2.68E-03	1.28E-04	2.23E-04	3.32E-03	1.79E-02
1982	495111.06, 3859401.99	1.71E-02	5.14E-04	1.90E-03	2.65E-03	1.27E-04	3.27E-03	2.08E-06	0.0255622	8.95E-03	5.14E-04	1.90E-03	2.65E-03	1.27E-04	2.21E-04	3.27E-03	1.76E-02
1983	495161.06, 3859401.99	1.69E-02	5.13E-04	1.89E-03	2.64E-03	1.26E-04	3.26E-03	2.07E-06	0.02533331	8.86E-03	5.13E-04	1.89E-03	2.64E-03	1.26E-04	2.20E-04	3.26E-03	1.75E-02
1984	495211.06, 3859401.99	1.68E-02	5.11E-04	1.88E-03	2.64E-03	1.26E-04	3.24E-03	2.06E-06	0.02515233	8.78E-03	5.11E-04	1.88E-03	2.64E-03	1.26E-04	2.20E-04	3.24E-03	1.74E-02
1985	495261.06, 3859401.99	1.66E-02	5.07E-04	1.86E-03	2.62E-03	1.25E-04	3.22E-03	2.04E-06	0.02493486	8.70E-03	5.07E-04	1.86E-03	2.62E-03	1.25E-04	2.19E-04	3.22E-03	1.73E-02
1986	495311.06, 3859401.99	1.64E-02	5.03E-04	1.84E-03	2.60E-03	1.24E-04	3.19E-03	2.02E-06	0.02470275	8.62E-03	5.03E-04	1.84E-03	2.60E-03	1.24E-04	2.18E-04	3.19E-03	1.71E-02
1987	495361.06, 3859401.99	1.63E-02	5.01E-04	1.83E-03	2.60E-03	1.24E-04	3.18E-03	2.02E-06	0.02455326	8.55E-03	5.01E-04	1.83E-03	2.60E-03	1.24E-04	2.18E-04	3.18E-03	1.70E-02
1988	495411.06, 3859401.99	1.62E-02	4.99E-04	1.82E-03	2.59E-03	1.24E-04	3.16E-03	2.00E-06	0.02437084	8.48E-03	4.99E-04	1.82E-03	2.59E-03	1.24E-04	2.17E-04	3.16E-03	1.69E-02

1989	495461.06, 3859401.99	1.60E-02	4.94E-04	1.79E-03	2.57E-03	1.23E-04	3.13E-03	1.98E-06	0.02413414	8.40E-03	4.94E-04	1.79E-03	2.57E-03	1.23E-04	2.16E-04	3.13E-03	1.67E-02
1990	495511.06, 3859401.99	1.59E-02	4.88E-04	1.76E-03	2.54E-03	1.22E-04	3.08E-03	1.94E-06	0.02386244	8.32E-03	4.88E-04	1.76E-03	2.54E-03	1.22E-04	2.14E-04	3.08E-03	1.65E-02
1991	495561.06, 3859401.99	1.57E-02	4.83E-04	1.72E-03	2.50E-03	1.20E-04	3.03E-03	1.90E-06	0.02356133	8.23E-03	4.83E-04	1.72E-03	2.50E-03	1.20E-04	2.11E-04	3.03E-03	1.63E-02
1992	495611.06, 3859401.99	1.56E-02	4.79E-04	1.70E-03	2.48E-03	1.19E-04	3.00E-03	1.88E-06	0.02335203	8.17E-03	4.79E-04	1.70E-03	2.48E-03	1.19E-04	2.10E-04	3.00E-03	1.62E-02
1993	495661.06, 3859401.99	1.54E-02	4.75E-04	1.68E-03	2.47E-03	1.19E-04	2.97E-03	1.86E-06	0.02315727	8.10E-03	4.75E-04	1.68E-03	2.47E-03	1.19E-04	2.09E-04	2.97E-03	1.60E-02
1994	494311.06, 3859451.99	1.93E-02	6.49E-04	2.75E-03	3.18E-03	1.46E-04	4.28E-03	2.78E-06	0.03030367	1.02E-02	6.49E-04	2.75E-03	3.18E-03	1.46E-04	2.48E-04	4.28E-03	2.14E-02
1995	494361.06, 3859451.99	1.92E-02	6.39E-04	2.68E-03	3.15E-03	1.45E-04	4.20E-03	2.73E-06	0.02997472	1.01E-02	6.39E-04	2.68E-03	3.15E-03	1.45E-04	2.46E-04	4.20E-03	2.12E-02
1996	494411.06, 3859451.99	1.91E-02	6.25E-04	2.58E-03	3.09E-03	1.43E-04	4.09E-03	2.65E-06	0.02958849	1.00E-02	6.25E-04	2.58E-03	3.09E-03	1.43E-04	2.44E-04	4.09E-03	2.08E-02
1997	494461.06, 3859451.99	1.89E-02	6.20E-04	2.55E-03	3.07E-03	1.42E-04	4.05E-03	2.62E-06	0.02935698	9.97E-03	6.20E-04	2.55E-03	3.07E-03	1.42E-04	2.43E-04	4.05E-03	2.06E-02
1998	494511.06, 3859451.99	1.88E-02	6.11E-04	2.49E-03	3.04E-03	1.41E-04	3.99E-03	2.57E-06	0.02907713	9.91E-03	6.11E-04	2.49E-03	3.04E-03	1.41E-04	2.41E-04	3.99E-03	2.04E-02
1999	494561.06, 3859451.99	1.87E-02	6.04E-04	2.45E-03	3.01E-03	1.40E-04	3.93E-03	2.53E-06	0.02883462	9.85E-03	6.04E-04	2.45E-03	3.01E-03	1.40E-04	2.40E-04	3.93E-03	2.02E-02
2000	494611.06, 3859451.99	1.86E-02	5.99E-04	2.42E-03	2.99E-03	1.39E-04	3.90E-03	2.51E-06	0.02865744	9.80E-03	5.99E-04	2.42E-03	2.99E-03	1.39E-04	2.39E-04	3.90E-03	2.01E-02
2001	494661.06, 3859451.99	1.85E-02	5.91E-04	2.36E-03	2.96E-03	1.38E-04	3.83E-03	2.46E-06	0.02836641	9.73E-03	5.91E-04	2.36E-03	2.96E-03	1.38E-04	2.37E-04	3.83E-03	1.98E-02
2002	494711.06, 3859451.99	1.84E-02	5.82E-04	2.31E-03	2.92E-03	1.36E-04	3.76E-03	2.41E-06	0.02809646	9.67E-03	5.82E-04	2.31E-03	2.92E-03	1.36E-04	2.35E-04	3.76E-03	1.96E-02
2003	494761.06, 3859451.99	1.83E-02	5.75E-04	2.26E-03	2.89E-03	1.35E-04	3.71E-03	2.37E-06	0.02791439	9.64E-03	5.75E-04	2.26E-03	2.89E-03	1.35E-04	2.34E-04	3.71E-03	1.94E-02
2004	494811.06, 3859451.99	1.85E-02	5.65E-04	2.20E-03	2.84E-03	1.33E-04	3.62E-03	2.31E-06	0.02787338	9.71E-03	5.65E-04	2.20E-03	2.84E-03	1.33E-04	2.31E-04	3.62E-03	1.93E-02
2005	494861.06, 3859451.99	1.86E-02	5.56E-04	2.15E-03	2.80E-03	1.32E-04	3.56E-03	2.26E-06	0.02779877	9.74E-03	5.56E-04	2.15E-03	2.80E-03	1.32E-04	2.29E-04	3.56E-03	1.92E-02
2006	494911.06, 3859451.99	1.85E-02	5.49E-04	2.11E-03	2.76E-03	1.30E-04	3.50E-03	2.22E-06	0.02757884	9.69E-03	5.49E-04	2.11E-03	2.76E-03	1.30E-04	2.27E-04	3.50E-03	1.90E-02
2007	494961.06, 3859451.99	1.79E-02	5.45E-04	2.08E-03	2.75E-03	1.30E-04	3.47E-03	2.19E-06	0.02690354	9.40E-03	5.45E-04	2.08E-03	2.75E-03	1.30E-04	2.26E-04	3.47E-03	1.86E-02
2008	495011.06, 3859451.99	1.75E-02	5.40E-04	2.05E-03	2.72E-03	1.29E-04	3.43E-03	2.17E-06	0.026422	9.20E-03	5.40E-04	2.05E-03	2.72E-03	1.29E-04	2.24E-04	3.43E-03	1.83E-02
2009	495061.06, 3859451.99	1.73E-02	5.35E-04	2.02E-03	2.70E-03	1.28E-04	3.39E-03	2.14E-06	0.02604793	9.06E-03	5.35E-04	2.02E-03	2.70E-03	1.28E-04	2.23E-04	3.39E-03	1.81E-02
2010	495111.06, 3859451.99	1.70E-02	5.29E-04	1.99E-03	2.68E-03	1.27E-04	3.35E-03	2.11E-06	0.02570121	8.94E-03	5.29E-04	1.99E-03	2.68E-03	1.27E-04	2.22E-04	3.35E-03	1.78E-02
2011	495161.06, 3859451.99	1.68E-02	5.26E-04	1.97E-03	2.67E-03	1.27E-04	3.33E-03	2.10E-06	0.02546607	8.84E-03	5.26E-04	1.97E-03	2.67E-03	1.27E-04	2.21E-04	3.33E-03	1.77E-02
2012	495211.06, 3859451.99	1.67E-02	5.24E-04	1.96E-03	2.66E-03	1.26E-04	3.31E-03	2.09E-06	0.02525192	8.76E-03	5.24E-04	1.96E-03	2.66E-03	1.26E-04	2.20E-04	3.31E-03	1.76E-02
2013	495261.06, 3859451.99	1.65E-02	5.21E-04	1.94E-03	2.65E-03	1.26E-04	3.30E-03	2.08E-06	0.02505341	8.68E-03	5.21E-04	1.94E-03	2.65E-03	1.26E-04	2.20E-04	3.30E-03	1.74E-02
2014	495311.06, 3859451.99	1.63E-02	5.17E-04	1.92E-03	2.64E-03	1.25E-04	3.27E-03	2.05E-06	0.02481024	8.59E-03	5.17E-04	1.92E-03	2.64E-03	1.25E-04	2.19E-04	3.27E-03	1.73E-02
2015	495361.06, 3859451.99	1.62E-02	5.13E-04	1.90E-03	2.62E-03	1.24E-04	3.24E-03	2.04E-06	0.02460478	8.52E-03	5.13E-04	1.90E-03	2.62E-03	1.24E-04	2.18E-04	3.24E-03	1.71E-02
2016	495411.06, 3859451.99	1.61E-02	5.09E-04	1.87E-03	2.60E-03	1.24E-04	3.21E-03	2.01E-06	0.0243831	8.44E-03	5.09E-04	1.87E-03	2.60E-03	1.24E-04	2.17E-04	3.21E-03	1.70E-02
2017	495461.06, 3859451.99	1.59E-02	5.05E-04	1.85E-03	2.59E-03	1.23E-04	3.18E-03	2.00E-06	0.02416774	8.36E-03	5.05E-04	1.85E-03	2.59E-03	1.23E-04	2.16E-04	3.18E-03	1.68E-02
2018	495511.06, 3859451.99	1.58E-02	4.99E-04	1.81E-03	2.55E-03	1.22E-04	3.13E-03	1.95E-06	0.02387263	8.28E-03	4.99E-04	1.81E-03	2.55E-03	1.22E-04	2.13E-04	3.13E-03	1.66E-02
2019	495561.06, 3859451.99	1.56E-02	4.95E-04	1.79E-03	2.53E-03	1.21E-04	3.09E-03	1.93E-06	0.02364974	8.21E-03	4.95E-04	1.79E-03	2.53E-03	1.21E-04	2.12E-04	3.09E-03	1.64E-02
2020	495611.06, 3859451.99	1.55E-02	4.90E-04	1.76E-03	2.51E-03	1.20E-04	3.06E-03	1.90E-06	0.02341544	8.13E-03	4.90E-04	1.76E-03	2.51E-03	1.20E-04	2.11E-04	3.06E-03	1.63E-02
2021	495661.06, 3859451.99	1.53E-02	4.86E-04	1.74E-03	2.49E-03	1.19E-04	3.02E-03	1.88E-06	0.02320735	8.07E-03	4.86E-04	1.74E-03	2.49E-03	1.19E-04	2.09E-04	3.02E-03	1.61E-02
2022	494311.06, 3859501.99	1.91E-02	6.64E-04	2.85E-03	3.16E-03	1.45E-04	4.33E-03	2.76E-06	0.0302823	1.01E-02	6.64E-04	2.85E-03	3.16E-03	1.45E-04	2.45E-04	4.33E-03	2.15E-02
2023	494361.06, 3859501.99	1.91E-02	6.53E-04	2.78E-03	3.12E-03	1.43E-04	4.25E-03	2.70E-06	0.03000872	1.01E-02	6.53E-04	2.78E-03	3.12E-03	1.43E-04	2.43E-04	4.25E-03	2.13E-02
2024	494411.06, 3859501.99	1.90E-02	6.36E-04	2.66E-03	3.06E-03	1.41E-04	4.11E-03	2.61E-06	0.02964418	1.00E-02	6.36E-04	2.66E-03	3.06E-03	1.41E-04	2.40E-04	4.11E-03	2.09E-02
2025	494461.06, 3859501.99	1.90E-02	6.34E-04	2.65E-03	3.06E-03	1.41E-04	4.10E-03	2.61E-06	0.0296076	1.00E-02	6.34E-04	2.65E-03	3.06E-03	1.41E-04	2.40E-04	4.10E-03	2.09E-02
2026	494511.06, 3859501.99	1.90E-02	6.24E-04	2.58E-03	3.02E-03	1.40E-04	4.03E-03	2.56E-06	0.02938513	1.00E-02	6.24E-04	2.58E-03	3.02E-03	1.40E-04	2.39E-04	4.03E-03	2.06E-02
2027	494561.06, 3859501.99	1.90E-02	6.17E-04	2.53E-03	2.99E-03	1.38E-04	3.97E-03	2.52E-06	0.02923344	1.00E-02	6.17E-04	2.53E-03	2.99E-03	1.38E-04	2.37E-04	3.97E-03	2.05E-02
2028	494611.06, 3859501.99	1.90E-02	6.15E-04	2.52E-03	2.99E-03	1.38E-04	3.96E-03	2.51E-06	0.02921898	1.00E-02	6.15E-04	2.52E-03	2.99E-03	1.38E-04	2.37E-04	3.96E-03	2.05E-02
2029	494661.06, 3859501.99	1.89E-02	6.05E-04	2.45E-03	2.95E-03	1.37E-04	3.89E-03	2.46E-06	0.02894977	9.95E-03	6.05E-04	2.45E-03	2.95E-03	1.37E-04	2.35E-04	3.89E-03	2.02E-02
2030	494711.06, 3859501.99	1.88E-02	5.93E-04	2.38E-03	2.90E-03	1.35E-04	3.79E-03	2.39E-06	0.02863323	9.90E-03	5.93E-04	2.38E-03	2.90E-03	1.35E-04	2.33E-04	3.79E-03	1.99E-02
2031	494761.06, 3859501.99	1.88E-02	5.90E-04	2.36E-03	2.89E-03	1.35E-04	3.77E-03	2.38E-06	0.02855428	9.88E-03	5.90E-04	2.36E-03	2.89E-03	1.35E-04	2.32E-04	3.77E-03	1.99E-02
2032	494811.06, 3859501.99	1.88E-02	5.76E-04	2.27E-03	2.83E-03	1.32E-04	3.66E-03	2.30E-06	0.0283068	9.88E-03	5.76E-04	2.27E-03	2.83E-03	1.32E-04	2.29E-04	3.66E-03	1.96E-02
2033	494861.06, 3859501.99	1.89E-02	5.70E-04	2.23E-03	2.80E-03	1.31E-04	3.61E-03	2.27E-06	0.02822562	9.89E-03	5.70E-04	2.23E-03	2.80E-03	1.31E-04	2.28E-04	3.61E-03	1.95E-02
2034	494911.06, 3859501.99	1.87E-02	5.65E-04	2.20E-03	2.79E-03	1.31E-04	3.58E-03	2.24E-06	0.02795988	9.79E-03	5.65E-04	2.20E-03	2.79E-03	1.31E-04	2.27E-04	3.58E-03	1.93E-02
2035	494961.06, 3859501.99	1.80E-02	5.58E-04	2.15E-03	2.75E-03	1.29E-04	3.52E-03	2.20E-06	0.02707685	9.43E-03	5.58E-04	2.15E-03	2.75E-03	1.29E-04	2.25E-04	3.52E-03	1.88E-02
2036	495011.06, 3859501.99	1.75E-02	5.54E-04	2.13E-03	2.74E-03	1.29E-04	3.49E-03	2.18E-06	0.02656704	9.21E-03	5.54E-04	2.13E-03	2.74E-03	1.29E-04	2.24E-04	3.49E-03	1.85E-02
2037	495061.06, 3859501.99	1.72E-02	5.50E-04	2.10E-03	2.73E-03	1.28E-04	3.47E-03	2.17E-06	0.02618515	9.05E-03	5.50E-04	2.10E-03	2.73E-03	1.28E-04	2.23E-04	3.47E-03	1.82E-02
2038	495111.06, 3859501.99	1.69E-02	5.43E-04	2.06E-03	2.69E-03	1.27E-04	3.41E-03	2.13E-06	0.0257737	8.91E-03	5.43E-04	2.06E-03	2.69E-03	1.27E-04	2.21E-04	3.41E-03	1.80E-02
2039	495161.06, 3859501.99	1.67E-02	5.39E-04	2.04E-03	2.68E-03	1.26E-04	3.39E-03	2.11E-06	0.02550059	8.80E-03	5.39E-04	2.04E-03	2.68E-03	1.26E-04	2.21E-04	3.39E-03	1.78E-02
2040	495211.06, 3859501.99	1.66E-02	5.36E-04	2.03E-03	2.68E-03	1.26E-04	3.37E-03	2.10E-06	0.02529612	8.72E-03	5.36E-04	2.03E-03	2.68E-03	1.26E-04	2.20E-04	3.37E-03	1.77E-02
2041	495261.06, 3859501.99	1.64E-02	5.33E-04	2.01E-03	2.66E-03	1.25E-04	3.35E-03	2.09E-06	0.0250591	8.63E-03	5.33E-04	2.01E-03	2.66E-03	1.25E-04	2.19E-04	3.35E-03	1.75E-02
2042	495311.06, 3859501.99	1.62E-02	5.30E-04	1.99E-03	2.66E-03	1.25E-04	3.33E-03	2.07E-06	0.02485823	8.55E-03	5.30E-04	1.99E-03	2.66E-03	1.25E-04	2.19E-04	3.33E-03	1.74E-02

2043	495361.06, 3859501.99	1.61E-02	5.25E-04	1.96E-03	2.64E-03	1.24E-04	3.30E-03	2.05E-06	0.02463591	8.47E-03	5.25E-04	1.96E-03	2.64E-03	1.24E-04	2.18E-04	3.30E-03	1.72E-02
2044	495411.06, 3859501.99	1.59E-02	5.22E-04	1.94E-03	2.63E-03	1.24E-04	3.27E-03	2.04E-06	0.02441732	8.39E-03	5.22E-04	1.94E-03	2.63E-03	1.24E-04	2.17E-04	3.27E-03	1.71E-02
2045	495461.06, 3859501.99	1.58E-02	5.17E-04	1.92E-03	2.61E-03	1.23E-04	3.24E-03	2.01E-06	0.02419275	8.32E-03	5.17E-04	1.92E-03	2.61E-03	1.23E-04	2.15E-04	3.24E-03	1.69E-02
2046	495511.06, 3859501.99	1.56E-02	5.08E-04	1.86E-03	2.56E-03	1.21E-04	3.17E-03	1.96E-06	0.02385025	8.23E-03	5.08E-04	1.86E-03	2.56E-03	1.21E-04	2.13E-04	3.17E-03	1.67E-02
2047	495561.06, 3859501.99	1.55E-02	5.07E-04	1.85E-03	2.56E-03	1.21E-04	3.15E-03	1.95E-06	0.023691	8.17E-03	5.07E-04	1.85E-03	2.56E-03	1.21E-04	2.12E-04	3.15E-03	1.66E-02
2048	495611.06, 3859501.99	1.54E-02	5.02E-04	1.82E-03	2.53E-03	1.20E-04	3.11E-03	1.93E-06	0.02346235	8.09E-03	5.02E-04	1.82E-03	2.53E-03	1.20E-04	2.11E-04	3.11E-03	1.64E-02
2049	495661.06, 3859501.99	1.52E-02	4.97E-04	1.79E-03	2.51E-03	1.19E-04	3.07E-03	1.90E-06	0.02321219	8.02E-03	4.97E-04	1.79E-03	2.51E-03	1.19E-04	2.09E-04	3.07E-03	1.62E-02
2050	494311.06, 3859551.99	1.90E-02	6.79E-04	2.95E-03	3.13E-03	1.43E-04	4.36E-03	2.73E-06	0.03023109	1.01E-02	6.79E-04	2.95E-03	3.13E-03	1.43E-04	2.41E-04	4.36E-03	2.16E-02
2051	494361.06, 3859551.99	1.90E-02	6.63E-04	2.85E-03	3.09E-03	1.41E-04	4.27E-03	2.67E-06	0.02996695	1.00E-02	6.63E-04	2.85E-03	3.09E-03	1.41E-04	2.40E-04	4.27E-03	2.13E-02
2052	494411.06, 3859551.99	1.92E-02	6.46E-04	2.73E-03	3.03E-03	1.39E-04	4.13E-03	2.58E-06	0.02987621	1.01E-02	6.46E-04	2.73E-03	3.03E-03	1.39E-04	2.37E-04	4.13E-03	2.11E-02
2053	494461.06, 3859551.99	1.99E-02	6.48E-04	2.74E-03	3.04E-03	1.39E-04	4.14E-03	2.59E-06	0.03061192	1.05E-02	6.48E-04	2.74E-03	3.04E-03	1.39E-04	2.37E-04	4.14E-03	2.14E-02
2054	494511.06, 3859551.99	2.19E-02	6.38E-04	2.67E-03	3.00E-03	1.38E-04	4.07E-03	2.54E-06	0.0324188	1.14E-02	6.38E-04	2.67E-03	3.00E-03	1.38E-04	2.36E-04	4.07E-03	2.22E-02
2055	494561.06, 3859551.99	2.17E-02	6.30E-04	2.62E-03	2.98E-03	1.37E-04	4.02E-03	2.50E-06	0.03208409	1.13E-02	6.30E-04	2.62E-03	2.98E-03	1.37E-04	2.35E-04	4.02E-03	2.20E-02
2056	494611.06, 3859551.99	2.16E-02	6.26E-04	2.59E-03	2.96E-03	1.37E-04	3.98E-03	2.48E-06	0.03189824	1.13E-02	6.26E-04	2.59E-03	2.96E-03	1.37E-04	2.34E-04	3.98E-03	2.18E-02
2057	494661.06, 3859551.99	2.14E-02	6.19E-04	2.54E-03	2.94E-03	1.36E-04	3.94E-03	2.45E-06	0.03158976	1.12E-02	6.19E-04	2.54E-03	2.94E-03	1.36E-04	2.33E-04	3.94E-03	2.16E-02
2058	494711.06, 3859551.99	2.12E-02	6.02E-04	2.43E-03	2.87E-03	1.33E-04	3.80E-03	2.36E-06	0.03107494	1.11E-02	6.02E-04	2.43E-03	2.87E-03	1.33E-04	2.30E-04	3.80E-03	2.11E-02
2059	494761.06, 3859551.99	2.13E-02	6.04E-04	2.44E-03	2.89E-03	1.34E-04	3.82E-03	2.37E-06	0.03121151	1.11E-02	6.04E-04	2.44E-03	2.89E-03	1.34E-04	2.30E-04	3.82E-03	2.12E-02
2060	494811.06, 3859551.99	2.12E-02	5.92E-04	2.36E-03	2.83E-03	1.32E-04	3.72E-03	2.31E-06	0.03079425	1.10E-02	5.92E-04	2.36E-03	2.83E-03	1.32E-04	2.28E-04	3.72E-03	2.09E-02
2061	494861.06, 3859551.99	2.04E-02	5.85E-04	2.32E-03	2.81E-03	1.31E-04	3.68E-03	2.28E-06	0.02987827	1.06E-02	5.85E-04	2.32E-03	2.81E-03	1.31E-04	2.26E-04	3.68E-03	2.04E-02
2062	494911.06, 3859551.99	1.86E-02	5.78E-04	2.27E-03	2.78E-03	1.30E-04	3.62E-03	2.24E-06	0.027939	9.74E-03	5.78E-04	2.27E-03	2.78E-03	1.30E-04	2.25E-04	3.62E-03	1.93E-02
2063	494961.06, 3859551.99	1.77E-02	5.74E-04	2.24E-03	2.77E-03	1.29E-04	3.59E-03	2.22E-06	0.02704396	9.34E-03	5.74E-04	2.24E-03	2.77E-03	1.29E-04	2.24E-04	3.59E-03	1.89E-02
2064	495011.06, 3859551.99	1.73E-02	5.70E-04	2.22E-03	2.76E-03	1.29E-04	3.57E-03	2.21E-06	0.02655921	9.13E-03	5.70E-04	2.22E-03	2.76E-03	1.29E-04	2.24E-04	3.57E-03	1.86E-02
2065	495061.06, 3859551.99	1.70E-02	5.64E-04	2.19E-03	2.74E-03	1.28E-04	3.53E-03	2.18E-06	0.02615827	8.97E-03	5.64E-04	2.19E-03	2.74E-03	1.28E-04	2.22E-04	3.53E-03	1.83E-02
2066	495111.06, 3859551.99	1.68E-02	5.58E-04	2.14E-03	2.71E-03	1.27E-04	3.48E-03	2.15E-06	0.02577696	8.84E-03	5.58E-04	2.14E-03	2.71E-03	1.27E-04	2.21E-04	3.48E-03	1.81E-02
2067	495161.06, 3859551.99	1.66E-02	5.54E-04	2.12E-03	2.70E-03	1.26E-04	3.46E-03	2.13E-06	0.02553708	8.75E-03	5.54E-04	2.12E-03	2.70E-03	1.26E-04	2.20E-04	3.46E-03	1.79E-02
2068	495211.06, 3859551.99	1.64E-02	5.52E-04	2.11E-03	2.70E-03	1.26E-04	3.44E-03	2.13E-06	0.02533847	8.66E-03	5.52E-04	2.11E-03	2.70E-03	1.26E-04	2.20E-04	3.44E-03	1.78E-02
2069	495261.06, 3859551.99	1.62E-02	5.46E-04	2.08E-03	2.68E-03	1.25E-04	3.40E-03	2.10E-06	0.02506131	8.57E-03	5.46E-04	2.08E-03	2.68E-03	1.25E-04	2.18E-04	3.40E-03	1.76E-02
2070	495311.06, 3859551.99	1.61E-02	5.42E-04	2.05E-03	2.66E-03	1.24E-04	3.37E-03	2.08E-06	0.02481871	8.49E-03	5.42E-04	2.05E-03	2.66E-03	1.24E-04	2.17E-04	3.37E-03	1.75E-02
2071	495361.06, 3859551.99	1.59E-02	5.38E-04	2.03E-03	2.65E-03	1.24E-04	3.35E-03	2.06E-06	0.02461143	8.41E-03	5.38E-04	2.03E-03	2.65E-03	1.24E-04	2.17E-04	3.35E-03	1.73E-02
2072	495411.06, 3859551.99	1.58E-02	5.35E-04	2.01E-03	2.64E-03	1.23E-04	3.33E-03	2.05E-06	0.024425	8.34E-03	5.35E-04	2.01E-03	2.64E-03	1.23E-04	2.16E-04	3.33E-03	1.72E-02
2073	495461.06, 3859551.99	1.57E-02	5.28E-04	1.97E-03	2.61E-03	1.22E-04	3.28E-03	2.01E-06	0.02415723	8.27E-03	5.28E-04	1.97E-03	2.61E-03	1.22E-04	2.14E-04	3.28E-03	1.70E-02
2074	495511.06, 3859551.99	1.55E-02	5.22E-04	1.93E-03	2.58E-03	1.21E-04	3.23E-03	1.98E-06	0.02387483	8.18E-03	5.22E-04	1.93E-03	2.58E-03	1.21E-04	2.13E-04	3.23E-03	1.68E-02
2075	495561.06, 3859551.99	1.54E-02	5.18E-04	1.90E-03	2.56E-03	1.21E-04	3.19E-03	1.96E-06	0.02366434	8.11E-03	5.18E-04	1.90E-03	2.56E-03	1.21E-04	2.11E-04	3.19E-03	1.66E-02
2076	495611.06, 3859551.99	1.52E-02	5.13E-04	1.88E-03	2.54E-03	1.20E-04	3.16E-03	1.94E-06	0.0234505	8.04E-03	5.13E-04	1.88E-03	2.54E-03	1.20E-04	2.10E-04	3.16E-03	1.65E-02
2077	495661.06, 3859551.99	1.51E-02	5.08E-04	1.85E-03	2.52E-03	1.19E-04	3.12E-03	1.91E-06	0.02321795	7.97E-03	5.08E-04	1.85E-03	2.52E-03	1.19E-04	2.09E-04	3.12E-03	1.63E-02
2078	494311.06, 3859601.99	1.87E-02	6.95E-04	3.07E-03	3.11E-03	1.41E-04	4.41E-03	2.70E-06	0.03017008	9.98E-03	6.95E-04	3.07E-03	3.11E-03	1.41E-04	2.38E-04	4.41E-03	2.16E-02
2079	494361.06, 3859601.99	1.88E-02	6.74E-04	2.92E-03	3.05E-03	1.39E-04	4.26E-03	2.61E-06	0.02981788	9.97E-03	6.74E-04	2.92E-03	3.05E-03	1.39E-04	2.36E-04	4.26E-03	2.12E-02
2080	494411.06, 3859601.99	1.91E-02	6.63E-04	2.83E-03	3.01E-03	1.38E-04	4.18E-03	2.56E-06	0.02989526	1.01E-02	6.63E-04	2.83E-03	3.01E-03	1.38E-04	2.34E-04	4.18E-03	2.12E-02
2081	494461.06, 3859601.99	1.97E-02	6.62E-04	2.83E-03	3.01E-03	1.38E-04	4.18E-03	2.56E-06	0.03057492	1.04E-02	6.62E-04	2.83E-03	3.01E-03	1.38E-04	2.34E-04	4.18E-03	2.15E-02
2082	494511.06, 3859601.99	1.94E-02	6.49E-04	2.74E-03	2.97E-03	1.36E-04	4.08E-03	2.50E-06	0.02994745	1.02E-02	6.49E-04	2.74E-03	2.97E-03	1.36E-04	2.32E-04	4.08E-03	2.10E-02
2083	494561.06, 3859601.99	1.89E-02	6.46E-04	2.72E-03	2.97E-03	1.36E-04	4.07E-03	2.50E-06	0.02945827	1.00E-02	6.46E-04	2.72E-03	2.97E-03	1.36E-04	2.32E-04	4.07E-03	2.08E-02
2084	494611.06, 3859601.99	1.86E-02	6.42E-04	2.69E-03	2.96E-03	1.35E-04	4.04E-03	2.48E-06	0.02910046	9.86E-03	6.42E-04	2.69E-03	2.96E-03	1.35E-04	2.31E-04	4.04E-03	2.06E-02
2085	494661.06, 3859601.99	1.85E-02	6.27E-04	2.59E-03	2.91E-03	1.34E-04	3.94E-03	2.41E-06	0.02865305	9.75E-03	6.27E-04	2.59E-03	2.91E-03	1.34E-04	2.29E-04	3.94E-03	2.02E-02
2086	494711.06, 3859601.99	1.83E-02	6.16E-04	2.51E-03	2.86E-03	1.32E-04	3.85E-03	2.35E-06	0.02826582	9.66E-03	6.16E-04	2.51E-03	2.86E-03	1.32E-04	2.27E-04	3.85E-03	1.99E-02
2087	494761.06, 3859601.99	1.81E-02	6.20E-04	2.54E-03	2.89E-03	1.33E-04	3.89E-03	2.38E-06	0.02815743	9.57E-03	6.20E-04	2.54E-03	2.89E-03	1.33E-04	2.28E-04	3.89E-03	1.99E-02
2088	494811.06, 3859601.99	1.79E-02	6.07E-04	2.45E-03	2.84E-03	1.31E-04	3.79E-03	2.32E-06	0.02773535	9.47E-03	6.07E-04	2.45E-03	2.84E-03	1.31E-04	2.26E-04	3.79E-03	1.95E-02
2089	494861.06, 3859601.99	1.77E-02	6.01E-04	2.41E-03	2.82E-03	1.30E-04	3.75E-03	2.29E-06	0.02737596	9.34E-03	6.01E-04	2.41E-03	2.82E-03	1.30E-04	2.25E-04	3.75E-03	1.93E-02
2090	494911.06, 3859601.99	1.74E-02	5.92E-04	2.35E-03	2.78E-03	1.29E-04	3.67E-03	2.24E-06	0.02692289	9.20E-03	5.92E-04	2.35E-03	2.78E-03	1.29E-04	2.23E-04	3.67E-03	1.89E-02
2091	494961.06, 3859601.99	1.71E-02	5.91E-04	2.35E-03	2.79E-03	1.29E-04	3.68E-03	2.25E-06	0.02668269	9.07E-03	5.91E-04	2.35E-03	2.79E-03	1.29E-04	2.23E-04	3.68E-03	1.88E-02
2092	495011.06, 3859601.99	1.69E-02	5.81E-04	2.28E-03	2.75E-03	1.28E-04	3.60E-03	2.20E-06	0.02626498	8.95E-03	5.81E-04	2.28E-03	2.75E-03	1.28E-04	2.21E-04	3.60E-03	1.85E-02
2093	495061.06, 3859601.99	1.67E-02	5.79E-04	2.27E-03	2.74E-03	1.27E-04	3.59E-03	2.19E-06	0.02603445	8.85E-03	5.79E-04	2.27E-03	2.74E-03	1.27E-04	2.21E-04	3.59E-03	1.84E-02
2094	495111.06, 3859601.99	1.65E-02	5.72E-04	2.22E-03	2.72E-03	1.26E-04	3.54E-03	2.15E-06	0.02571308	8.76E-03	5.72E-04	2.22E-03	2.72E-03	1.26E-04	2.20E-04	3.54E-03	1.81E-02
2095	495161.06, 3859601.99	1.64E-02	5.68E-04	2.20E-03	2.71E-03	1.26E-04	3.52E-03	2.14E-06	0.02549016	8.67E-03	5.68E-04	2.20E-03	2.71E-03	1.26E-04	2.19E-04	3.52E-03	1.80E-02
2096	495211.06, 3859601.99	1.62E-02	5.64E-04	2.17E-03	2.69E-03	1.25E-04	3.48E-03	2.12E-06	0.02525555	8.59E-03	5.64E-04	2.17E-03	2.69E-03	1.25E-04	2.18E-04	3.48E-03	1.78E-02

2097	495261.06, 3859601.99	1.61E-02	5.60E-04	2.15E-03	2.68E-03	1.25E-04	3.46E-03	2.11E-06	0.02504859	8.51E-03	5.60E-04	2.15E-03	2.68E-03	1.25E-04	2.17E-04	3.46E-03	1.77E-02
2098	495311.06, 3859601.99	1.59E-02	5.57E-04	2.13E-03	2.67E-03	1.24E-04	3.44E-03	2.09E-06	0.02485402	8.44E-03	5.57E-04	2.13E-03	2.67E-03	1.24E-04	2.17E-04	3.44E-03	1.76E-02
2099	495361.06, 3859601.99	1.58E-02	5.52E-04	2.10E-03	2.66E-03	1.24E-04	3.40E-03	2.07E-06	0.0246134	8.36E-03	5.52E-04	2.10E-03	2.66E-03	1.24E-04	2.16E-04	3.40E-03	1.74E-02
2100	495411.06, 3859601.99	1.56E-02	5.49E-04	2.07E-03	2.64E-03	1.23E-04	3.38E-03	2.06E-06	0.02442193	8.29E-03	5.49E-04	2.07E-03	2.64E-03	1.23E-04	2.15E-04	3.38E-03	1.73E-02
2101	495461.06, 3859601.99	1.55E-02	5.41E-04	2.03E-03	2.61E-03	1.22E-04	3.32E-03	2.02E-06	0.02412419	8.21E-03	5.41E-04	2.03E-03	2.61E-03	1.22E-04	2.13E-04	3.32E-03	1.70E-02
2102	495511.06, 3859601.99	1.53E-02	5.33E-04	1.98E-03	2.58E-03	1.21E-04	3.27E-03	1.98E-06	0.02383007	8.12E-03	5.33E-04	1.98E-03	2.58E-03	1.21E-04	2.12E-04	3.27E-03	1.68E-02
2103	495561.06, 3859601.99	1.52E-02	5.31E-04	1.97E-03	2.58E-03	1.20E-04	3.25E-03	1.97E-06	0.02368765	8.07E-03	5.31E-04	1.97E-03	2.58E-03	1.20E-04	2.11E-04	3.25E-03	1.67E-02
2104	495611.06, 3859601.99	1.51E-02	5.24E-04	1.92E-03	2.54E-03	1.19E-04	3.19E-03	1.93E-06	0.02339354	7.99E-03	5.24E-04	1.92E-03	2.54E-03	1.19E-04	2.09E-04	3.19E-03	1.65E-02
2105	495661.06, 3859601.99	1.50E-02	5.20E-04	1.90E-03	2.53E-03	1.19E-04	3.17E-03	1.92E-06	0.0232116	7.92E-03	5.20E-04	1.90E-03	2.53E-03	1.19E-04	2.08E-04	3.17E-03	1.64E-02
2106	494311.06, 3859651.99	1.85E-02	7.07E-04	3.14E-03	3.06E-03	1.39E-04	4.42E-03	2.65E-06	0.02998964	9.89E-03	7.07E-04	3.14E-03	3.06E-03	1.39E-04	2.34E-04	4.42E-03	2.16E-02
2107	494361.06, 3859651.99	1.85E-02	6.87E-04	3.00E-03	3.01E-03	1.37E-04	4.28E-03	2.57E-06	0.02965096	9.87E-03	6.87E-04	3.00E-03	3.01E-03	1.37E-04	2.32E-04	4.28E-03	2.12E-02
2108	494411.06, 3859651.99	1.88E-02	6.78E-04	2.94E-03	2.99E-03	1.37E-04	4.22E-03	2.54E-06	0.02976921	9.99E-03	6.78E-04	2.94E-03	2.99E-03	1.37E-04	2.31E-04	4.22E-03	2.12E-02
2109	494461.06, 3859651.99	1.94E-02	6.77E-04	2.93E-03	2.99E-03	1.36E-04	4.22E-03	2.54E-06	0.03036529	1.03E-02	6.77E-04	2.93E-03	2.99E-03	1.36E-04	2.31E-04	4.22E-03	2.15E-02
2110	494511.06, 3859651.99	1.89E-02	6.68E-04	2.87E-03	2.97E-03	1.35E-04	4.16E-03	2.50E-06	0.02970417	1.00E-02	6.68E-04	2.87E-03	2.97E-03	1.35E-04	2.30E-04	4.16E-03	2.11E-02
2111	494561.06, 3859651.99	1.83E-02	6.63E-04	2.83E-03	2.95E-03	1.35E-04	4.13E-03	2.48E-06	0.02905042	9.75E-03	6.63E-04	2.83E-03	2.95E-03	1.35E-04	2.29E-04	4.13E-03	2.07E-02
2112	494611.06, 3859651.99	1.80E-02	6.56E-04	2.78E-03	2.94E-03	1.34E-04	4.09E-03	2.46E-06	0.0286219	9.58E-03	6.56E-04	2.78E-03	2.94E-03	1.34E-04	2.28E-04	4.09E-03	2.04E-02
2113	494661.06, 3859651.99	1.78E-02	6.38E-04	2.66E-03	2.88E-03	1.32E-04	3.97E-03	2.39E-06	0.02806779	9.44E-03	6.38E-04	2.66E-03	2.88E-03	1.32E-04	2.26E-04	3.97E-03	2.00E-02
2114	494711.06, 3859651.99	1.76E-02	6.33E-04	2.62E-03	2.87E-03	1.32E-04	3.93E-03	2.37E-06	0.02778271	9.34E-03	6.33E-04	2.62E-03	2.87E-03	1.32E-04	2.26E-04	3.93E-03	1.98E-02
2115	494761.06, 3859651.99	1.74E-02	6.31E-04	2.60E-03	2.86E-03	1.31E-04	3.91E-03	2.35E-06	0.02756304	9.26E-03	6.31E-04	2.60E-03	2.86E-03	1.31E-04	2.25E-04	3.91E-03	1.96E-02
2116	494811.06, 3859651.99	1.73E-02	6.22E-04	2.54E-03	2.83E-03	1.30E-04	3.84E-03	2.31E-06	0.02721878	9.16E-03	6.22E-04	2.54E-03	2.83E-03	1.30E-04	2.24E-04	3.84E-03	1.94E-02
2117	494861.06, 3859651.99	1.71E-02	6.17E-04	2.50E-03	2.82E-03	1.30E-04	3.81E-03	2.29E-06	0.02695183	9.07E-03	6.17E-04	2.50E-03	2.82E-03	1.30E-04	2.23E-04	3.81E-03	1.92E-02
2118	494911.06, 3859651.99	1.69E-02	6.10E-04	2.46E-03	2.79E-03	1.29E-04	3.76E-03	2.26E-06	0.02664607	8.97E-03	6.10E-04	2.46E-03	2.79E-03	1.29E-04	2.22E-04	3.76E-03	1.89E-02
2119	494961.06, 3859651.99	1.67E-02	6.04E-04	2.42E-03	2.78E-03	1.28E-04	3.72E-03	2.24E-06	0.02639352	8.89E-03	6.04E-04	2.42E-03	2.78E-03	1.28E-04	2.21E-04	3.72E-03	1.88E-02
2120	495011.06, 3859651.99	1.66E-02	5.98E-04	2.38E-03	2.76E-03	1.27E-04	3.68E-03	2.22E-06	0.02612449	8.81E-03	5.98E-04	2.38E-03	2.76E-03	1.27E-04	2.20E-04	3.68E-03	1.86E-02
2121	495061.06, 3859651.99	1.64E-02	5.94E-04	2.35E-03	2.75E-03	1.27E-04	3.65E-03	2.20E-06	0.02589432	8.72E-03	5.94E-04	2.35E-03	2.75E-03	1.27E-04	2.19E-04	3.65E-03	1.84E-02
2122	495111.06, 3859651.99	1.63E-02	5.87E-04	2.31E-03	2.73E-03	1.26E-04	3.61E-03	2.17E-06	0.02562184	8.64E-03	5.87E-04	2.31E-03	2.73E-03	1.26E-04	2.18E-04	3.61E-03	1.82E-02
2123	495161.06, 3859651.99	1.61E-02	5.83E-04	2.27E-03	2.71E-03	1.25E-04	3.57E-03	2.15E-06	0.02539125	8.56E-03	5.83E-04	2.27E-03	2.71E-03	1.25E-04	2.17E-04	3.57E-03	1.80E-02
2124	495211.06, 3859651.99	1.60E-02	5.79E-04	2.25E-03	2.70E-03	1.25E-04	3.55E-03	2.13E-06	0.02518508	8.49E-03	5.79E-04	2.25E-03	2.70E-03	1.25E-04	2.17E-04	3.55E-03	1.79E-02
2125	495261.06, 3859651.99	1.58E-02	5.74E-04	2.22E-03	2.68E-03	1.24E-04	3.51E-03	2.11E-06	0.02495613	8.42E-03	5.74E-04	2.22E-03	2.68E-03	1.24E-04	2.16E-04	3.51E-03	1.77E-02
2126	495311.06, 3859651.99	1.57E-02	5.70E-04	2.19E-03	2.67E-03	1.23E-04	3.48E-03	2.10E-06	0.0247603	8.35E-03	5.70E-04	2.19E-03	2.67E-03	1.23E-04	2.15E-04	3.48E-03	1.76E-02
2127	495361.06, 3859651.99	1.56E-02	5.66E-04	2.16E-03	2.66E-03	1.23E-04	3.46E-03	2.08E-06	0.02456091	8.28E-03	5.66E-04	2.16E-03	2.66E-03	1.23E-04	2.14E-04	3.46E-03	1.75E-02
2128	495411.06, 3859651.99	1.55E-02	5.61E-04	2.13E-03	2.64E-03	1.22E-04	3.42E-03	2.06E-06	0.02435389	8.22E-03	5.61E-04	2.13E-03	2.64E-03	1.22E-04	2.13E-04	3.42E-03	1.73E-02
2129	495461.06, 3859651.99	1.53E-02	5.53E-04	2.08E-03	2.61E-03	1.21E-04	3.37E-03	2.02E-06	0.0240773	8.15E-03	5.53E-04	2.08E-03	2.61E-03	1.21E-04	2.12E-04	3.37E-03	1.71E-02
2130	495511.06, 3859651.99	1.52E-02	5.47E-04	2.04E-03	2.58E-03	1.20E-04	3.32E-03	1.99E-06	0.02381427	8.07E-03	5.47E-04	2.04E-03	2.58E-03	1.20E-04	2.10E-04	3.32E-03	1.69E-02
2131	495561.06, 3859651.99	1.51E-02	5.43E-04	2.02E-03	2.57E-03	1.20E-04	3.29E-03	1.97E-06	0.02362072	8.00E-03	5.43E-04	2.02E-03	2.57E-03	1.20E-04	2.10E-04	3.29E-03	1.68E-02
2132	495611.06, 3859651.99	1.50E-02	5.38E-04	1.99E-03	2.55E-03	1.19E-04	3.25E-03	1.95E-06	0.0234116	7.94E-03	5.38E-04	1.99E-03	2.55E-03	1.19E-04	2.09E-04	3.25E-03	1.66E-02
2133	495661.06, 3859651.99	1.48E-02	5.32E-04	1.95E-03	2.53E-03	1.18E-04	3.21E-03	1.92E-06	0.02317753	7.87E-03	5.32E-04	1.95E-03	2.53E-03	1.18E-04	2.07E-04	3.21E-03	1.64E-02
2134	494311.06, 3859701.99	1.83E-02	7.05E-04	3.12E-03	2.99E-03	1.36E-04	4.33E-03	2.55E-06	0.02958026	9.77E-03	7.05E-04	3.12E-03	2.99E-03	1.36E-04	2.30E-04	4.33E-03	2.13E-02
2135	494361.06, 3859701.99	1.83E-02	6.97E-04	3.05E-03	2.96E-03	1.35E-04	4.27E-03	2.51E-06	0.02941773	9.76E-03	6.97E-04	3.05E-03	2.96E-03	1.35E-04	2.29E-04	4.27E-03	2.11E-02
2136	494411.06, 3859701.99	1.85E-02	6.92E-04	3.01E-03	2.95E-03	1.35E-04	4.24E-03	2.50E-06	0.02956996	9.87E-03	6.92E-04	3.01E-03	2.95E-03	1.35E-04	2.28E-04	4.24E-03	2.11E-02
2137	494461.06, 3859701.99	1.87E-02	6.93E-04	3.02E-03	2.96E-03	1.35E-04	4.26E-03	2.51E-06	0.02974444	9.94E-03	6.93E-04	3.02E-03	2.96E-03	1.35E-04	2.28E-04	4.26E-03	2.12E-02
2138	494511.06, 3859701.99	1.86E-02	6.85E-04	2.97E-03	2.94E-03	1.34E-04	4.21E-03	2.48E-06	0.02955157	9.90E-03	6.85E-04	2.97E-03	2.94E-03	1.34E-04	2.27E-04	4.21E-03	2.11E-02
2139	494561.06, 3859701.99	1.80E-02	6.79E-04	2.93E-03	2.93E-03	1.33E-04	4.17E-03	2.46E-06	0.02887831	9.61E-03	6.79E-04	2.93E-03	2.93E-03	1.33E-04	2.26E-04	4.17E-03	2.07E-02
2140	494611.06, 3859701.99	1.77E-02	6.73E-04	2.88E-03	2.92E-03	1.33E-04	4.14E-03	2.44E-06	0.02843919	9.44E-03	6.73E-04	2.88E-03	2.92E-03	1.33E-04	2.25E-04	4.14E-03	2.04E-02
2141	494661.06, 3859701.99	1.75E-02	6.55E-04	2.75E-03	2.86E-03	1.31E-04	4.01E-03	2.37E-06	0.02787363	9.31E-03	6.55E-04	2.75E-03	2.86E-03	1.31E-04	2.24E-04	4.01E-03	1.99E-02
2142	494711.06, 3859701.99	1.73E-02	6.52E-04	2.73E-03	2.86E-03	1.31E-04	3.99E-03	2.36E-06	0.02762853	9.20E-03	6.52E-04	2.73E-03	2.86E-03	1.31E-04	2.23E-04	3.99E-03	1.98E-02
2143	494761.06, 3859701.99	1.71E-02	6.43E-04	2.67E-03	2.84E-03	1.30E-04	3.93E-03	2.33E-06	0.02729306	9.11E-03	6.43E-04	2.67E-03	2.84E-03	1.30E-04	2.22E-04	3.93E-03	1.95E-02
2144	494811.06, 3859701.99	1.69E-02	6.35E-04	2.61E-03	2.81E-03	1.29E-04	3.87E-03	2.29E-06	0.02696653	9.01E-03	6.35E-04	2.61E-03	2.81E-03	1.29E-04	2.21E-04	3.87E-03	1.93E-02
2145	494861.06, 3859701.99	1.67E-02	6.33E-04	2.59E-03	2.81E-03	1.29E-04	3.87E-03	2.29E-06	0.0267692	8.93E-03	6.33E-04	2.59E-03	2.81E-03	1.29E-04	2.21E-04	3.87E-03	1.92E-02
2146	494911.06, 3859701.99	1.66E-02	6.26E-04	2.54E-03	2.79E-03	1.28E-04	3.82E-03	2.26E-06	0.02648786	8.84E-03	6.26E-04	2.54E-03	2.79E-03	1.28E-04	2.20E-04	3.82E-03	1.90E-02
2147	494961.06, 3859701.99	1.64E-02	6.19E-04	2.50E-03	2.77E-03	1.27E-04	3.77E-03	2.23E-06	0.0262159	8.76E-03	6.19E-04	2.50E-03	2.77E-03	1.27E-04	2.19E-04	3.77E-03	1.88E-02
2148	495011.06, 3859701.99	1.63E-02	6.15E-04	2.47E-03	2.76E-03	1.26E-04	3.74E-03	2.22E-06	0.02599333	8.68E-03	6.15E-04	2.47E-03	2.76E-03	1.26E-04	2.18E-04	3.74E-03	1.86E-02
2149	495061.06, 3859701.99	1.61E-02	6.09E-04	2.43E-03	2.74E-03	1.26E-04	3.71E-03	2.20E-06	0.02575246	8.61E-03	6.09E-04	2.43E-03	2.74E-03	1.26E-04	2.17E-04	3.71E-03	1.84E-02
2150	495111.06, 3859701.99	1.60E-02	6.04E-04	2.39E-03	2.73E-03	1.25E-04	3.67E-03	2.17E-06	0.02552647	8.54E-03	6.04E-04	2.39E-03	2.73E-03	1.25E-04	2.16E-04	3.67E-03	1.83E-02

2151	495161.06, 3859701.99	1.59E-02	5.97E-04	2.35E-03	2.71E-03	1.24E-04	3.62E-03	2.15E-06	0.02527576	8.46E-03	5.97E-04	2.35E-03	2.71E-03	1.24E-04	2.15E-04	3.62E-03	1.81E-02
2152	495211.06, 3859701.99	1.57E-02	5.91E-04	2.30E-03	2.69E-03	1.24E-04	3.58E-03	2.12E-06	0.02503572	8.39E-03	5.91E-04	2.30E-03	2.69E-03	1.24E-04	2.14E-04	3.58E-03	1.79E-02
2153	495261.06, 3859701.99	1.56E-02	5.89E-04	2.29E-03	2.68E-03	1.23E-04	3.57E-03	2.12E-06	0.02486262	8.32E-03	5.89E-04	2.29E-03	2.68E-03	1.23E-04	2.14E-04	3.57E-03	1.78E-02
2154	495311.06, 3859701.99	1.55E-02	5.83E-04	2.25E-03	2.66E-03	1.23E-04	3.53E-03	2.09E-06	0.02463769	8.26E-03	5.83E-04	2.25E-03	2.66E-03	1.23E-04	2.13E-04	3.53E-03	1.76E-02
2155	495361.06, 3859701.99	1.54E-02	5.78E-04	2.22E-03	2.65E-03	1.22E-04	3.49E-03	2.07E-06	0.02442343	8.19E-03	5.78E-04	2.22E-03	2.65E-03	1.22E-04	2.12E-04	3.49E-03	1.75E-02
2156	495411.06, 3859701.99	1.52E-02	5.71E-04	2.17E-03	2.62E-03	1.21E-04	3.44E-03	2.04E-06	0.02417284	8.12E-03	5.71E-04	2.17E-03	2.62E-03	1.21E-04	2.11E-04	3.44E-03	1.73E-02
2157	495461.06, 3859701.99	1.51E-02	5.65E-04	2.14E-03	2.60E-03	1.20E-04	3.40E-03	2.02E-06	0.02395474	8.06E-03	5.65E-04	2.14E-03	2.60E-03	1.20E-04	2.10E-04	3.40E-03	1.71E-02
2158	495511.06, 3859701.99	1.50E-02	5.56E-04	2.08E-03	2.57E-03	1.19E-04	3.33E-03	1.97E-06	0.02366611	7.99E-03	5.56E-04	2.08E-03	2.57E-03	1.19E-04	2.08E-04	3.33E-03	1.69E-02
2159	495561.06, 3859701.99	1.49E-02	5.56E-04	2.07E-03	2.57E-03	1.19E-04	3.33E-03	1.97E-06	0.02355329	7.94E-03	5.56E-04	2.07E-03	2.57E-03	1.19E-04	2.08E-04	3.33E-03	1.68E-02
2160	495611.06, 3859701.99	1.48E-02	5.51E-04	2.04E-03	2.55E-03	1.18E-04	3.30E-03	1.95E-06	0.0233501	7.88E-03	5.51E-04	2.04E-03	2.55E-03	1.18E-04	2.07E-04	3.30E-03	1.66E-02
2161	495661.06, 3859701.99	1.47E-02	5.45E-04	2.01E-03	2.53E-03	1.18E-04	3.26E-03	1.93E-06	0.02313715	7.81E-03	5.45E-04	2.01E-03	2.53E-03	1.18E-04	2.06E-04	3.26E-03	1.65E-02
2162	494311.06, 3859751.99	1.80E-02	7.26E-04	3.25E-03	2.96E-03	1.35E-04	4.39E-03	2.52E-06	0.02949692	9.67E-03	7.26E-04	3.25E-03	2.96E-03	1.35E-04	2.27E-04	4.39E-03	2.14E-02
2163	494361.06, 3859751.99	1.80E-02	7.18E-04	3.18E-03	2.95E-03	1.34E-04	4.34E-03	2.50E-06	0.02935211	9.66E-03	7.18E-04	3.18E-03	2.95E-03	1.34E-04	2.26E-04	4.34E-03	2.12E-02
2164	494411.06, 3859751.99	1.83E-02	7.07E-04	3.11E-03	2.92E-03	1.33E-04	4.28E-03	2.47E-06	0.02941183	9.76E-03	7.07E-04	3.11E-03	2.92E-03	1.33E-04	2.25E-04	4.28E-03	2.11E-02
2165	494461.06, 3859751.99	1.84E-02	7.07E-04	3.10E-03	2.93E-03	1.33E-04	4.28E-03	2.47E-06	0.02957125	9.84E-03	7.07E-04	3.10E-03	2.93E-03	1.33E-04	2.25E-04	4.28E-03	2.12E-02
2166	494511.06, 3859751.99	1.83E-02	7.04E-04	3.08E-03	2.92E-03	1.32E-04	4.26E-03	2.46E-06	0.02942201	9.79E-03	7.04E-04	3.08E-03	2.92E-03	1.32E-04	2.24E-04	4.26E-03	2.11E-02
2167	494561.06, 3859751.99	1.78E-02	6.96E-04	3.02E-03	2.90E-03	1.32E-04	4.21E-03	2.43E-06	0.02871759	9.50E-03	6.96E-04	3.02E-03	2.90E-03	1.32E-04	2.23E-04	4.21E-03	2.07E-02
2168	494611.06, 3859751.99	1.74E-02	6.86E-04	2.95E-03	2.88E-03	1.31E-04	4.15E-03	2.40E-06	0.02821017	9.32E-03	6.86E-04	2.95E-03	2.88E-03	1.31E-04	2.22E-04	4.15E-03	2.03E-02
2169	494661.06, 3859751.99	1.72E-02	6.69E-04	2.83E-03	2.85E-03	1.30E-04	4.05E-03	2.35E-06	0.02770307	9.18E-03	6.69E-04	2.83E-03	2.85E-03	1.30E-04	2.21E-04	4.05E-03	1.99E-02
2170	494711.06, 3859751.99	1.70E-02	6.69E-04	2.82E-03	2.84E-03	1.29E-04	4.04E-03	2.35E-06	0.02746688	9.08E-03	6.69E-04	2.82E-03	2.84E-03	1.29E-04	2.20E-04	4.04E-03	1.98E-02
2171	494761.06, 3859751.99	1.68E-02	6.64E-04	2.78E-03	2.83E-03	1.29E-04	4.01E-03	2.33E-06	0.0271921	8.98E-03	6.64E-04	2.78E-03	2.83E-03	1.29E-04	2.20E-04	4.01E-03	1.96E-02
2172	494811.06, 3859751.99	1.66E-02	6.56E-04	2.72E-03	2.81E-03	1.28E-04	3.95E-03	2.30E-06	0.02687909	8.89E-03	6.56E-04	2.72E-03	2.81E-03	1.28E-04	2.19E-04	3.95E-03	1.94E-02
2173	494861.06, 3859751.99	1.65E-02	6.49E-04	2.68E-03	2.79E-03	1.27E-04	3.92E-03	2.28E-06	0.02662246	8.81E-03	6.49E-04	2.68E-03	2.79E-03	1.27E-04	2.18E-04	3.92E-03	1.92E-02
2174	494911.06, 3859751.99	1.63E-02	6.43E-04	2.64E-03	2.78E-03	1.27E-04	3.88E-03	2.26E-06	0.02637088	8.73E-03	6.43E-04	2.64E-03	2.78E-03	1.27E-04	2.17E-04	3.88E-03	1.90E-02
2175	494961.06, 3859751.99	1.62E-02	6.38E-04	2.60E-03	2.76E-03	1.26E-04	3.84E-03	2.24E-06	0.02612622	8.65E-03	6.38E-04	2.60E-03	2.76E-03	1.26E-04	2.16E-04	3.84E-03	1.88E-02
2176	495011.06, 3859751.99	1.60E-02	6.31E-04	2.55E-03	2.75E-03	1.25E-04	3.80E-03	2.21E-06	0.02587349	8.57E-03	6.31E-04	2.55E-03	2.75E-03	1.25E-04	2.16E-04	3.80E-03	1.86E-02
2177	495061.06, 3859751.99	1.59E-02	6.27E-04	2.52E-03	2.74E-03	1.25E-04	3.77E-03	2.20E-06	0.0256643	8.50E-03	6.27E-04	2.52E-03	2.74E-03	1.25E-04	2.15E-04	3.77E-03	1.85E-02
2178	495111.06, 3859751.99	1.57E-02	6.21E-04	2.48E-03	2.72E-03	1.24E-04	3.73E-03	2.18E-06	0.02541991	8.43E-03	6.21E-04	2.48E-03	2.72E-03	1.24E-04	2.14E-04	3.73E-03	1.83E-02
2179	495161.06, 3859751.99	1.56E-02	6.14E-04	2.43E-03	2.70E-03	1.23E-04	3.69E-03	2.15E-06	0.02518059	8.36E-03	6.14E-04	2.43E-03	2.70E-03	1.23E-04	2.13E-04	3.69E-03	1.81E-02
2180	495211.06, 3859751.99	1.55E-02	6.08E-04	2.39E-03	2.68E-03	1.23E-04	3.64E-03	2.13E-06	0.02493945	8.29E-03	6.08E-04	2.39E-03	2.68E-03	1.23E-04	2.12E-04	3.64E-03	1.79E-02
2181	495261.06, 3859751.99	1.54E-02	6.03E-04	2.35E-03	2.67E-03	1.22E-04	3.61E-03	2.11E-06	0.02474487	8.23E-03	6.03E-04	2.35E-03	2.67E-03	1.22E-04	2.12E-04	3.61E-03	1.78E-02
2182	495311.06, 3859751.99	1.53E-02	5.97E-04	2.32E-03	2.65E-03	1.22E-04	3.57E-03	2.09E-06	0.02452224	8.16E-03	5.97E-04	2.32E-03	2.65E-03	1.22E-04	2.11E-04	3.57E-03	1.76E-02
2183	495361.06, 3859751.99	1.51E-02	5.92E-04	2.28E-03	2.64E-03	1.21E-04	3.53E-03	2.07E-06	0.02431046	8.10E-03	5.92E-04	2.28E-03	2.64E-03	1.21E-04	2.10E-04	3.53E-03	1.75E-02
2184	495411.06, 3859751.99	1.50E-02	5.87E-04	2.25E-03	2.62E-03	1.20E-04	3.50E-03	2.05E-06	0.0241042	8.04E-03	5.87E-04	2.25E-03	2.62E-03	1.20E-04	2.09E-04	3.50E-03	1.73E-02
2185	495461.06, 3859751.99	1.49E-02	5.80E-04	2.20E-03	2.60E-03	1.19E-04	3.45E-03	2.02E-06	0.02386578	7.97E-03	5.80E-04	2.20E-03	2.60E-03	1.19E-04	2.08E-04	3.45E-03	1.71E-02
2186	495511.06, 3859751.99	1.48E-02	5.72E-04	2.15E-03	2.58E-03	1.19E-04	3.40E-03	1.99E-06	0.02362838	7.91E-03	5.72E-04	2.15E-03	2.58E-03	1.19E-04	2.07E-04	3.40E-03	1.69E-02
2187	495561.06, 3859751.99	1.47E-02	5.68E-04	2.12E-03	2.56E-03	1.18E-04	3.36E-03	1.97E-06	0.02342363	7.85E-03	5.68E-04	2.12E-03	2.56E-03	1.18E-04	2.06E-04	3.36E-03	1.68E-02
2188	495611.06, 3859751.99	1.46E-02	5.63E-04	2.09E-03	2.55E-03	1.17E-04	3.33E-03	1.95E-06	0.02322268	7.79E-03	5.63E-04	2.09E-03	2.55E-03	1.17E-04	2.05E-04	3.33E-03	1.66E-02
2189	495661.06, 3859751.99	1.45E-02	5.59E-04	2.06E-03	2.53E-03	1.17E-04	3.30E-03	1.93E-06	0.02306022	7.73E-03	5.59E-04	2.06E-03	2.53E-03	1.17E-04	2.05E-04	3.30E-03	1.65E-02
2190	494311.06, 3859801.99	1.78E-02	7.48E-04	3.37E-03	2.94E-03	1.33E-04	4.44E-03	2.50E-06	0.02939445	9.57E-03	7.48E-04	3.37E-03	2.94E-03	1.33E-04	2.25E-04	4.44E-03	2.14E-02
2191	494361.06, 3859801.99	1.78E-02	7.35E-04	3.28E-03	2.91E-03	1.32E-04	4.37E-03	2.46E-06	0.02918886	9.55E-03	7.35E-04	3.28E-03	2.91E-03	1.32E-04	2.23E-04	4.37E-03	2.12E-02
2192	494411.06, 3859801.99	1.80E-02	7.22E-04	3.18E-03	2.89E-03	1.31E-04	4.29E-03	2.43E-06	0.02921273	9.65E-03	7.22E-04	3.18E-03	2.89E-03	1.31E-04	2.22E-04	4.29E-03	2.11E-02
2193	494461.06, 3859801.99	1.82E-02	7.21E-04	3.17E-03	2.89E-03	1.31E-04	4.29E-03	2.42E-06	0.0294312	9.76E-03	7.21E-04	3.17E-03	2.89E-03	1.31E-04	2.22E-04	4.29E-03	2.12E-02
2194	494511.06, 3859801.99	1.80E-02	7.21E-04	3.17E-03	2.89E-03	1.31E-04	4.29E-03	2.43E-06	0.02923836	9.67E-03	7.21E-04	3.17E-03	2.89E-03	1.31E-04	2.21E-04	4.29E-03	2.11E-02
2195	494561.06, 3859801.99	1.75E-02	7.14E-04	3.11E-03	2.87E-03	1.30E-04	4.25E-03	2.40E-06	0.02856274	9.39E-03	7.14E-04	3.11E-03	2.87E-03	1.30E-04	2.20E-04	4.25E-03	2.07E-02
2196	494611.06, 3859801.99	1.72E-02	6.99E-04	3.01E-03	2.84E-03	1.29E-04	4.16E-03	2.36E-06	0.02799968	9.21E-03	6.99E-04	3.01E-03	2.84E-03	1.29E-04	2.19E-04	4.16E-03	2.03E-02
2197	494661.06, 3859801.99	1.69E-02	6.91E-04	2.94E-03	2.83E-03	1.28E-04	4.11E-03	2.34E-06	0.02760211	9.08E-03	6.91E-04	2.94E-03	2.83E-03	1.28E-04	2.18E-04	4.11E-03	2.00E-02
2198	494711.06, 3859801.99	1.67E-02	6.81E-04	2.87E-03	2.80E-03	1.27E-04	4.05E-03	2.31E-06	0.02723868	8.97E-03	6.81E-04	2.87E-03	2.80E-03	1.27E-04	2.17E-04	4.05E-03	1.97E-02
2199	494761.06, 3859801.99	1.65E-02	6.80E-04	2.87E-03	2.81E-03	1.27E-04	4.05E-03	2.31E-06	0.02703406	8.87E-03	6.80E-04	2.87E-03	2.81E-03	1.27E-04	2.17E-04	4.05E-03	1.96E-02
2200	494811.06, 3859801.99	1.63E-02	6.73E-04	2.81E-03	2.79E-03	1.27E-04	4.00E-03	2.28E-06	0.02674975	8.79E-03	6.73E-04	2.81E-03	2.79E-03	1.27E-04	2.16E-04	4.00E-03	1.94E-02
2201	494861.06, 3859801.99	1.62E-02	6.67E-04	2.77E-03	2.78E-03	1.26E-04	3.97E-03	2.26E-06	0.02649221	8.70E-03	6.67E-04	2.77E-03	2.78E-03	1.26E-04	2.15E-04	3.97E-03	1.92E-02
2202	494911.06, 3859801.99	1.60E-02	6.59E-04	2.71E-03	2.76E-03	1.25E-04	3.91E-03	2.24E-06	0.0262098	8.62E-03	6.59E-04	2.71E-03	2.76E-03	1.25E-04	2.14E-04	3.91E-03	1.90E-02
2203	494961.06, 3859801.99	1.59E-02	6.53E-04	2.67E-03	2.74E-03	1.25E-04	3.88E-03	2.22E-06	0.02596205	8.54E-03	6.53E-04	2.67E-03	2.74E-03	1.25E-04	2.14E-04	3.88E-03	1.88E-02
2204	495011.06, 3859801.99	1.58E-02	6.47E-04	2.62E-03	2.73E-03	1.24E-04	3.83E-03	2.20E-06	0.02572784	8.47E-03	6.47E-04	2.62E-03	2.73E-03	1.24E-04	2.13E-04	3.83E-03	1.86E-02

2205	495061.06, 3859801.99	1.56E-02	6.41E-04	2.58E-03	2.72E-03	1.23E-04	3.80E-03	2.18E-06	0.02550363	8.40E-03	6.41E-04	2.58E-03	2.72E-03	1.23E-04	2.12E-04	3.80E-03	1.85E-02
2206	495111.06, 3859801.99	1.55E-02	6.34E-04	2.53E-03	2.70E-03	1.23E-04	3.76E-03	2.16E-06	0.02525461	8.33E-03	6.34E-04	2.53E-03	2.70E-03	1.23E-04	2.11E-04	3.76E-03	1.83E-02
2207	495161.06, 3859801.99	1.54E-02	6.27E-04	2.49E-03	2.68E-03	1.22E-04	3.71E-03	2.13E-06	0.0250141	8.26E-03	6.27E-04	2.49E-03	2.68E-03	1.22E-04	2.11E-04	3.71E-03	1.81E-02
2208	495211.06, 3859801.99	1.53E-02	6.23E-04	2.45E-03	2.67E-03	1.22E-04	3.68E-03	2.12E-06	0.02481365	8.20E-03	6.23E-04	2.45E-03	2.67E-03	1.22E-04	2.10E-04	3.68E-03	1.80E-02
2209	495261.06, 3859801.99	1.51E-02	6.16E-04	2.41E-03	2.65E-03	1.21E-04	3.64E-03	2.09E-06	0.02457643	8.13E-03	6.16E-04	2.41E-03	2.65E-03	1.21E-04	2.09E-04	3.64E-03	1.78E-02
2210	495311.06, 3859801.99	1.50E-02	6.12E-04	2.38E-03	2.64E-03	1.20E-04	3.61E-03	2.08E-06	0.02438828	8.07E-03	6.12E-04	2.38E-03	2.64E-03	1.20E-04	2.09E-04	3.61E-03	1.76E-02
2211	495361.06, 3859801.99	1.49E-02	6.06E-04	2.34E-03	2.62E-03	1.20E-04	3.57E-03	2.05E-06	0.02416575	8.00E-03	6.06E-04	2.34E-03	2.62E-03	1.20E-04	2.08E-04	3.57E-03	1.75E-02
2212	495411.06, 3859801.99	1.48E-02	5.99E-04	2.29E-03	2.61E-03	1.19E-04	3.52E-03	2.03E-06	0.02394171	7.94E-03	5.99E-04	2.29E-03	2.61E-03	1.19E-04	2.07E-04	3.52E-03	1.73E-02
2213	495461.06, 3859801.99	1.47E-02	5.93E-04	2.26E-03	2.59E-03	1.18E-04	3.49E-03	2.01E-06	0.02374375	7.88E-03	5.93E-04	2.26E-03	2.59E-03	1.18E-04	2.06E-04	3.49E-03	1.71E-02
2214	495511.06, 3859801.99	1.46E-02	5.86E-04	2.21E-03	2.57E-03	1.18E-04	3.44E-03	1.98E-06	0.02350107	7.82E-03	5.86E-04	2.21E-03	2.57E-03	1.18E-04	2.05E-04	3.44E-03	1.69E-02
2215	495561.06, 3859801.99	1.45E-02	5.81E-04	2.17E-03	2.55E-03	1.17E-04	3.41E-03	1.96E-06	0.02330865	7.76E-03	5.81E-04	2.17E-03	2.55E-03	1.17E-04	2.04E-04	3.41E-03	1.68E-02
2216	495611.06, 3859801.99	1.44E-02	5.79E-04	2.16E-03	2.55E-03	1.17E-04	3.39E-03	1.95E-06	0.02315996	7.70E-03	5.79E-04	2.16E-03	2.55E-03	1.17E-04	2.04E-04	3.39E-03	1.67E-02
2217	495661.06, 3859801.99	1.43E-02	5.72E-04	2.11E-03	2.53E-03	1.16E-04	3.34E-03	1.93E-06	0.02294788	7.65E-03	5.72E-04	2.11E-03	2.53E-03	1.16E-04	2.03E-04	3.34E-03	1.65E-02
2218	494311.06, 3859851.99	1.75E-02	7.65E-04	3.46E-03	2.90E-03	1.31E-04	4.47E-03	2.45E-06	0.02920232	9.45E-03	7.65E-04	3.46E-03	2.90E-03	1.31E-04	2.22E-04	4.47E-03	2.14E-02
2219	494361.06, 3859851.99	1.75E-02	7.55E-04	3.38E-03	2.88E-03	1.30E-04	4.41E-03	2.43E-06	0.0290196	9.43E-03	7.55E-04	3.38E-03	2.88E-03	1.30E-04	2.21E-04	4.41E-03	2.12E-02
2220	494411.06, 3859851.99	1.77E-02	7.43E-04	3.29E-03	2.86E-03	1.29E-04	4.34E-03	2.40E-06	0.02906212	9.53E-03	7.43E-04	3.29E-03	2.86E-03	1.29E-04	2.20E-04	4.34E-03	2.11E-02
2221	494461.06, 3859851.99	1.79E-02	7.34E-04	3.23E-03	2.85E-03	1.29E-04	4.29E-03	2.38E-06	0.02914067	9.62E-03	7.34E-04	3.23E-03	2.85E-03	1.29E-04	2.19E-04	4.29E-03	2.11E-02
2222	494511.06, 3859851.99	1.78E-02	7.31E-04	3.20E-03	2.84E-03	1.28E-04	4.28E-03	2.37E-06	0.0289843	9.57E-03	7.31E-04	3.20E-03	2.84E-03	1.28E-04	2.18E-04	4.28E-03	2.10E-02
2223	494561.06, 3859851.99	1.72E-02	7.30E-04	3.18E-03	2.84E-03	1.28E-04	4.27E-03	2.36E-06	0.02836154	9.28E-03	7.30E-04	3.18E-03	2.84E-03	1.28E-04	2.17E-04	4.27E-03	2.06E-02
2224	494611.06, 3859851.99	1.69E-02	7.14E-04	3.07E-03	2.81E-03	1.27E-04	4.18E-03	2.32E-06	0.027796	9.10E-03	7.14E-04	3.07E-03	2.81E-03	1.27E-04	2.16E-04	4.18E-03	2.02E-02
2225	494661.06, 3859851.99	1.66E-02	7.10E-04	3.04E-03	2.80E-03	1.27E-04	4.15E-03	2.31E-06	0.02746834	8.97E-03	7.10E-04	3.04E-03	2.80E-03	1.27E-04	2.16E-04	4.15E-03	2.00E-02
2226	494711.06, 3859851.99	1.64E-02	6.98E-04	2.96E-03	2.78E-03	1.26E-04	4.08E-03	2.28E-06	0.02707709	8.86E-03	6.98E-04	2.96E-03	2.78E-03	1.26E-04	2.14E-04	4.08E-03	1.97E-02
2227	494761.06, 3859851.99	1.62E-02	6.97E-04	2.94E-03	2.78E-03	1.25E-04	4.08E-03	2.28E-06	0.02686324	8.76E-03	6.97E-04	2.94E-03	2.78E-03	1.25E-04	2.14E-04	4.08E-03	1.96E-02
2228	494811.06, 3859851.99	1.61E-02	6.90E-04	2.89E-03	2.76E-03	1.25E-04	4.03E-03	2.25E-06	0.02658761	8.68E-03	6.90E-04	2.89E-03	2.76E-03	1.25E-04	2.13E-04	4.03E-03	1.94E-02
2229	494861.06, 3859851.99	1.59E-02	6.85E-04	2.85E-03	2.75E-03	1.24E-04	4.01E-03	2.24E-06	0.02634562	8.60E-03	6.85E-04	2.85E-03	2.75E-03	1.24E-04	2.13E-04	4.01E-03	1.92E-02
2230	494911.06, 3859851.99	1.58E-02	6.76E-04	2.79E-03	2.74E-03	1.24E-04	3.95E-03	2.22E-06	0.02606403	8.52E-03	6.76E-04	2.79E-03	2.74E-03	1.24E-04	2.12E-04	3.95E-03	1.90E-02
2231	494961.06, 3859851.99	1.57E-02	6.70E-04	2.74E-03	2.72E-03	1.23E-04	3.92E-03	2.20E-06	0.02582836	8.44E-03	6.70E-04	2.74E-03	2.72E-03	1.23E-04	2.11E-04	3.92E-03	1.88E-02
2232	495011.06, 3859851.99	1.55E-02	6.64E-04	2.70E-03	2.71E-03	1.23E-04	3.88E-03	2.18E-06	0.02557836	8.37E-03	6.64E-04	2.70E-03	2.71E-03	1.23E-04	2.10E-04	3.88E-03	1.86E-02
2233	495061.06, 3859851.99	1.54E-02	6.58E-04	2.66E-03	2.70E-03	1.22E-04	3.84E-03	2.16E-06	0.02536634	8.30E-03	6.58E-04	2.66E-03	2.70E-03	1.22E-04	2.10E-04	3.84E-03	1.85E-02
2234	495111.06, 3859851.99	1.53E-02	6.50E-04	2.60E-03	2.68E-03	1.21E-04	3.79E-03	2.14E-06	0.02510261	8.23E-03	6.50E-04	2.60E-03	2.68E-03	1.21E-04	2.09E-04	3.79E-03	1.83E-02
2235	495161.06, 3859851.99	1.51E-02	6.44E-04	2.56E-03	2.66E-03	1.21E-04	3.75E-03	2.12E-06	0.02488381	8.16E-03	6.44E-04	2.56E-03	2.66E-03	1.21E-04	2.08E-04	3.75E-03	1.81E-02
2236	495211.06, 3859851.99	1.50E-02	6.38E-04	2.52E-03	2.65E-03	1.20E-04	3.72E-03	2.10E-06	0.02466359	8.10E-03	6.38E-04	2.52E-03	2.65E-03	1.20E-04	2.07E-04	3.72E-03	1.79E-02
2237	495261.06, 3859851.99	1.49E-02	6.31E-04	2.47E-03	2.64E-03	1.20E-04	3.68E-03	2.08E-06	0.02443537	8.03E-03	6.31E-04	2.47E-03	2.64E-03	1.20E-04	2.07E-04	3.68E-03	1.78E-02
2238	495311.06, 3859851.99	1.48E-02	6.26E-04	2.44E-03	2.62E-03	1.19E-04	3.64E-03	2.06E-06	0.02424931	7.97E-03	6.26E-04	2.44E-03	2.62E-03	1.19E-04	2.06E-04	3.64E-03	1.76E-02
2239	495361.06, 3859851.99	1.47E-02	6.21E-04	2.40E-03	2.61E-03	1.19E-04	3.61E-03	2.04E-06	0.02403847	7.91E-03	6.21E-04	2.40E-03	2.61E-03	1.19E-04	2.05E-04	3.61E-03	1.75E-02
2240	495411.06, 3859851.99	1.46E-02	6.14E-04	2.35E-03	2.59E-03	1.18E-04	3.57E-03	2.02E-06	0.02381732	7.85E-03	6.14E-04	2.35E-03	2.59E-03	1.18E-04	2.04E-04	3.57E-03	1.73E-02
2241	495461.06, 3859851.99	1.45E-02	6.08E-04	2.31E-03	2.58E-03	1.17E-04	3.52E-03	2.00E-06	0.0236014	7.79E-03	6.08E-04	2.31E-03	2.58E-03	1.17E-04	2.04E-04	3.52E-03	1.71E-02
2242	495511.06, 3859851.99	1.44E-02	6.01E-04	2.26E-03	2.56E-03	1.17E-04	3.48E-03	1.97E-06	0.02338573	7.73E-03	6.01E-04	2.26E-03	2.56E-03	1.17E-04	2.03E-04	3.48E-03	1.69E-02
2243	495561.06, 3859851.99	1.43E-02	5.97E-04	2.24E-03	2.55E-03	1.16E-04	3.45E-03	1.96E-06	0.02320742	7.68E-03	5.97E-04	2.24E-03	2.55E-03	1.16E-04	2.02E-04	3.45E-03	1.68E-02
2244	495611.06, 3859851.99	1.42E-02	5.92E-04	2.21E-03	2.54E-03	1.16E-04	3.42E-03	1.94E-06	0.02303791	7.62E-03	5.92E-04	2.21E-03	2.54E-03	1.16E-04	2.02E-04	3.42E-03	1.67E-02
2245	495661.06, 3859851.99	1.41E-02	5.86E-04	2.16E-03	2.52E-03	1.15E-04	3.38E-03	1.92E-06	0.02281963	7.56E-03	5.86E-04	2.16E-03	2.52E-03	1.15E-04	2.01E-04	3.38E-03	1.65E-02
2246	494311.06, 3859901.99	1.72E-02	7.83E-04	3.53E-03	2.86E-03	1.29E-04	4.48E-03	2.41E-06	0.02899708	9.34E-03	7.83E-04	3.53E-03	2.86E-03	1.29E-04	2.19E-04	4.48E-03	2.13E-02
2247	494361.06, 3859901.99	1.72E-02	7.67E-04	3.42E-03	2.84E-03	1.28E-04	4.39E-03	2.37E-06	0.02874887	9.32E-03	7.67E-04	3.42E-03	2.84E-03	1.28E-04	2.17E-04	4.39E-03	2.11E-02
2248	494411.06, 3859901.99	1.74E-02	7.62E-04	3.37E-03	2.83E-03	1.27E-04	4.36E-03	2.36E-06	0.02887503	9.42E-03	7.62E-04	3.37E-03	2.83E-03	1.27E-04	2.17E-04	4.36E-03	2.11E-02
2249	494461.06, 3859901.99	1.76E-02	7.53E-04	3.31E-03	2.81E-03	1.27E-04	4.32E-03	2.34E-06	0.02891579	9.49E-03	7.53E-04	3.31E-03	2.81E-03	1.27E-04	2.16E-04	4.32E-03	2.10E-02
2250	494511.06, 3859901.99	1.76E-02	7.48E-04	3.26E-03	2.80E-03	1.26E-04	4.29E-03	2.32E-06	0.02879076	9.47E-03	7.48E-04	3.26E-03	2.80E-03	1.26E-04	2.15E-04	4.29E-03	2.09E-02
2251	494561.06, 3859901.99	1.69E-02	7.48E-04	3.26E-03	2.80E-03	1.26E-04	4.29E-03	2.32E-06	0.02818337	9.17E-03	7.48E-04	3.26E-03	2.80E-03	1.26E-04	2.15E-04	4.29E-03	2.06E-02
2252	494611.06, 3859901.99	1.66E-02	7.31E-04	3.14E-03	2.78E-03	1.25E-04	4.20E-03	2.29E-06	0.02761456	9.00E-03	7.31E-04	3.14E-03	2.78E-03	1.25E-04	2.13E-04	4.20E-03	2.02E-02
2253	494661.06, 3859901.99	1.64E-02	7.30E-04	3.13E-03	2.77E-03	1.25E-04	4.19E-03	2.28E-06	0.02732794	8.87E-03	7.30E-04	3.13E-03	2.77E-03	1.25E-04	2.13E-04	4.19E-03	2.00E-02
2254	494711.06, 3859901.99	1.62E-02	7.14E-04	3.02E-03	2.75E-03	1.24E-04	4.10E-03	2.24E-06	0.02688508	8.76E-03	7.14E-04	3.02E-03	2.75E-03	1.24E-04	2.12E-04	4.10E-03	1.97E-02
2255	494761.06, 3859901.99	1.60E-02	7.12E-04	2.99E-03	2.74E-03	1.24E-04	4.08E-03	2.23E-06	0.02665271	8.66E-03	7.12E-04	2.99E-03	2.74E-03	1.24E-04	2.11E-04	4.08E-03	1.95E-02
2256	494811.06, 3859901.99	1.58E-02	7.08E-04	2.97E-03	2.73E-03	1.23E-04	4.07E-03	2.23E-06	0.02641946	8.57E-03	7.08E-04	2.97E-03	2.73E-03	1.23E-04	2.11E-04	4.07E-03	1.94E-02
2257	494861.06, 3859901.99	1.57E-02	7.03E-04	2.93E-03	2.72E-03	1.23E-04	4.04E-03	2.21E-06	0.02617928	8.49E-03	7.03E-04	2.93E-03	2.72E-03	1.23E-04	2.10E-04	4.04E-03	1.92E-02
2258	494911.06, 3859901.99	1.55E-02	6.94E-04	2.86E-03	2.71E-03	1.22E-04	3.99E-03	2.19E-06	0.0259056	8.41E-03	6.94E-04	2.86E-03	2.71E-03	1.22E-04	2.09E-04	3.99E-03	1.90E-02

2259	494961.06, 3859901.99	1.54E-02	6.89E-04	2.82E-03	2.70E-03	1.22E-04	3.95E-03	2.17E-06	0.0256683	8.34E-03	6.89E-04	2.82E-03	2.70E-03	1.22E-04	2.08E-04	3.95E-03	1.88E-02
2260	495011.06, 3859901.99	1.53E-02	6.81E-04	2.77E-03	2.68E-03	1.21E-04	3.91E-03	2.15E-06	0.02542396	8.27E-03	6.81E-04	2.77E-03	2.68E-03	1.21E-04	2.08E-04	3.91E-03	1.86E-02
2261	495061.06, 3859901.99	1.51E-02	6.74E-04	2.72E-03	2.67E-03	1.20E-04	3.87E-03	2.13E-06	0.02518525	8.20E-03	6.74E-04	2.72E-03	2.67E-03	1.20E-04	2.07E-04	3.87E-03	1.85E-02
2262	495111.06, 3859901.99	1.50E-02	6.66E-04	2.66E-03	2.65E-03	1.20E-04	3.82E-03	2.11E-06	0.02493351	8.13E-03	6.66E-04	2.66E-03	2.65E-03	1.20E-04	2.06E-04	3.82E-03	1.83E-02
2263	495161.06, 3859901.99	1.49E-02	6.58E-04	2.61E-03	2.64E-03	1.19E-04	3.77E-03	2.09E-06	0.024696	8.06E-03	6.58E-04	2.61E-03	2.64E-03	1.19E-04	2.05E-04	3.77E-03	1.81E-02
2264	495211.06, 3859901.99	1.48E-02	6.53E-04	2.57E-03	2.63E-03	1.19E-04	3.74E-03	2.08E-06	0.02450313	8.00E-03	6.53E-04	2.57E-03	2.63E-03	1.19E-04	2.05E-04	3.74E-03	1.79E-02
2265	495261.06, 3859901.99	1.47E-02	6.45E-04	2.52E-03	2.61E-03	1.18E-04	3.69E-03	2.05E-06	0.02425044	7.94E-03	6.45E-04	2.52E-03	2.61E-03	1.18E-04	2.04E-04	3.69E-03	1.77E-02
2266	495311.06, 3859901.99	1.46E-02	6.41E-04	2.49E-03	2.60E-03	1.18E-04	3.67E-03	2.04E-06	0.02406329	7.87E-03	6.41E-04	2.49E-03	2.60E-03	1.18E-04	2.03E-04	3.67E-03	1.76E-02
2267	495361.06, 3859901.99	1.44E-02	6.34E-04	2.44E-03	2.58E-03	1.17E-04	3.63E-03	2.02E-06	0.02385369	7.81E-03	6.34E-04	2.44E-03	2.58E-03	1.17E-04	2.03E-04	3.63E-03	1.74E-02
2268	495411.06, 3859901.99	1.44E-02	6.27E-04	2.39E-03	2.57E-03	1.16E-04	3.58E-03	2.00E-06	0.02364036	7.76E-03	6.27E-04	2.39E-03	2.57E-03	1.16E-04	2.02E-04	3.58E-03	1.72E-02
2269	495461.06, 3859901.99	1.42E-02	6.21E-04	2.35E-03	2.55E-03	1.16E-04	3.54E-03	1.98E-06	0.02343116	7.70E-03	6.21E-04	2.35E-03	2.55E-03	1.16E-04	2.01E-04	3.54E-03	1.71E-02
2270	495511.06, 3859901.99	1.41E-02	6.16E-04	2.32E-03	2.54E-03	1.15E-04	3.51E-03	1.96E-06	0.02325673	7.64E-03	6.16E-04	2.32E-03	2.54E-03	1.15E-04	2.00E-04	3.51E-03	1.70E-02
2271	495561.06, 3859901.99	1.40E-02	6.12E-04	2.29E-03	2.53E-03	1.15E-04	3.49E-03	1.95E-06	0.02307174	7.58E-03	6.12E-04	2.29E-03	2.53E-03	1.15E-04	2.00E-04	3.49E-03	1.68E-02
2272	495611.06, 3859901.99	1.39E-02	6.06E-04	2.25E-03	2.52E-03	1.14E-04	3.45E-03	1.93E-06	0.02287427	7.53E-03	6.06E-04	2.25E-03	2.52E-03	1.14E-04	1.99E-04	3.45E-03	1.67E-02
2273	495661.06, 3859901.99	1.39E-02	5.99E-04	2.21E-03	2.50E-03	1.14E-04	3.40E-03	1.91E-06	0.02267143	7.48E-03	5.99E-04	2.21E-03	2.50E-03	1.14E-04	1.98E-04	3.40E-03	1.65E-02
2274	494311.06, 3859951.99	1.70E-02	8.03E-04	3.61E-03	2.82E-03	1.27E-04	4.50E-03	2.36E-06	0.02882046	9.24E-03	8.03E-04	3.61E-03	2.82E-03	1.27E-04	2.16E-04	4.50E-03	2.13E-02
2275	494361.06, 3859951.99	1.70E-02	7.91E-04	3.52E-03	2.81E-03	1.26E-04	4.43E-03	2.34E-06	0.02863486	9.22E-03	7.91E-04	3.52E-03	2.81E-03	1.26E-04	2.16E-04	4.43E-03	2.11E-02
2276	494411.06, 3859951.99	1.72E-02	7.81E-04	3.44E-03	2.79E-03	1.25E-04	4.38E-03	2.32E-06	0.02868857	9.32E-03	7.81E-04	3.44E-03	2.79E-03	1.25E-04	2.14E-04	4.38E-03	2.11E-02
2277	494461.06, 3859951.99	1.74E-02	7.72E-04	3.38E-03	2.78E-03	1.25E-04	4.33E-03	2.30E-06	0.02875356	9.40E-03	7.72E-04	3.38E-03	2.78E-03	1.25E-04	2.13E-04	4.33E-03	2.10E-02
2278	494511.06, 3859951.99	1.73E-02	7.66E-04	3.33E-03	2.77E-03	1.24E-04	4.31E-03	2.28E-06	0.02864256	9.38E-03	7.66E-04	3.33E-03	2.77E-03	1.24E-04	2.12E-04	4.31E-03	2.09E-02
2279	494561.06, 3859951.99	1.67E-02	7.69E-04	3.34E-03	2.77E-03	1.24E-04	4.32E-03	2.29E-06	0.02804004	9.08E-03	7.69E-04	3.34E-03	2.77E-03	1.24E-04	2.13E-04	4.32E-03	2.06E-02
2280	494611.06, 3859951.99	1.64E-02	7.53E-04	3.23E-03	2.75E-03	1.23E-04	4.23E-03	2.25E-06	0.02748123	8.91E-03	7.53E-04	3.23E-03	2.75E-03	1.23E-04	2.11E-04	4.23E-03	2.02E-02
2281	494661.06, 3859951.99	1.61E-02	7.52E-04	3.21E-03	2.74E-03	1.23E-04	4.23E-03	2.25E-06	0.02718043	8.77E-03	7.52E-04	3.21E-03	2.74E-03	1.23E-04	2.11E-04	4.23E-03	2.00E-02
2282	494711.06, 3859951.99	1.59E-02	7.37E-04	3.11E-03	2.72E-03	1.22E-04	4.15E-03	2.22E-06	0.02676818	8.66E-03	7.37E-04	3.11E-03	2.72E-03	1.22E-04	2.09E-04	4.15E-03	1.97E-02
2283	494761.06, 3859951.99	1.57E-02	7.32E-04	3.07E-03	2.71E-03	1.22E-04	4.12E-03	2.20E-06	0.02650111	8.56E-03	7.32E-04	3.07E-03	2.71E-03	1.22E-04	2.09E-04	4.12E-03	1.95E-02
2284	494811.06, 3859951.99	1.56E-02	7.26E-04	3.02E-03	2.70E-03	1.21E-04	4.09E-03	2.19E-06	0.02623037	8.47E-03	7.26E-04	3.02E-03	2.70E-03	1.21E-04	2.08E-04	4.09E-03	1.93E-02
2285	494861.06, 3859951.99	1.54E-02	7.22E-04	2.99E-03	2.69E-03	1.21E-04	4.07E-03	2.18E-06	0.02600268	8.39E-03	7.22E-04	2.99E-03	2.69E-03	1.21E-04	2.07E-04	4.07E-03	1.92E-02
2286	494911.06, 3859951.99	1.53E-02	7.12E-04	2.93E-03	2.68E-03	1.20E-04	4.01E-03	2.16E-06	0.02571937	8.31E-03	7.12E-04	2.93E-03	2.68E-03	1.20E-04	2.06E-04	4.01E-03	1.90E-02
2287	494961.06, 3859951.99	1.51E-02	7.04E-04	2.87E-03	2.66E-03	1.20E-04	3.97E-03	2.14E-06	0.02546088	8.24E-03	7.04E-04	2.87E-03	2.66E-03	1.20E-04	2.06E-04	3.97E-03	1.88E-02
2288	495011.06, 3859951.99	1.50E-02	6.97E-04	2.81E-03	2.65E-03	1.19E-04	3.92E-03	2.12E-06	0.02522129	8.17E-03	6.97E-04	2.81E-03	2.65E-03	1.19E-04	2.05E-04	3.92E-03	1.86E-02
2289	495061.06, 3859951.99	1.49E-02	6.90E-04	2.77E-03	2.64E-03	1.19E-04	3.89E-03	2.10E-06	0.02499405	8.10E-03	6.90E-04	2.77E-03	2.64E-03	1.19E-04	2.04E-04	3.89E-03	1.84E-02
2290	495111.06, 3859951.99	1.48E-02	6.81E-04	2.71E-03	2.62E-03	1.18E-04	3.84E-03	2.08E-06	0.02473899	8.03E-03	6.81E-04	2.71E-03	2.62E-03	1.18E-04	2.03E-04	3.84E-03	1.82E-02
2291	495161.06, 3859951.99	1.46E-02	6.73E-04	2.66E-03	2.61E-03	1.18E-04	3.79E-03	2.06E-06	0.02449615	7.96E-03	6.73E-04	2.66E-03	2.61E-03	1.18E-04	2.02E-04	3.79E-03	1.80E-02
2292	495211.06, 3859951.99	1.45E-02	6.66E-04	2.60E-03	2.59E-03	1.17E-04	3.74E-03	2.04E-06	0.02427464	7.90E-03	6.66E-04	2.60E-03	2.59E-03	1.17E-04	2.02E-04	3.74E-03	1.78E-02
2293	495261.06, 3859951.99	1.44E-02	6.59E-04	2.56E-03	2.58E-03	1.16E-04	3.71E-03	2.02E-06	0.02405084	7.83E-03	6.59E-04	2.56E-03	2.58E-03	1.16E-04	2.01E-04	3.71E-03	1.77E-02
2294	495311.06, 3859951.99	1.43E-02	6.56E-04	2.53E-03	2.57E-03	1.16E-04	3.68E-03	2.01E-06	0.02388905	7.78E-03	6.56E-04	2.53E-03	2.57E-03	1.16E-04	2.01E-04	3.68E-03	1.75E-02
2295	495361.06, 3859951.99	1.42E-02	6.50E-04	2.49E-03	2.56E-03	1.16E-04	3.65E-03	2.00E-06	0.02369503	7.72E-03	6.50E-04	2.49E-03	2.56E-03	1.16E-04	2.00E-04	3.65E-03	1.74E-02
2296	495411.06, 3859951.99	1.41E-02	6.43E-04	2.44E-03	2.55E-03	1.15E-04	3.61E-03	1.98E-06	0.02347066	7.66E-03	6.43E-04	2.44E-03	2.55E-03	1.15E-04	1.99E-04	3.61E-03	1.72E-02
2297	495461.06, 3859951.99	1.40E-02	6.36E-04	2.40E-03	2.53E-03	1.14E-04	3.57E-03	1.96E-06	0.02327497	7.61E-03	6.36E-04	2.40E-03	2.53E-03	1.14E-04	1.98E-04	3.57E-03	1.71E-02
2298	495511.06, 3859951.99	1.39E-02	6.30E-04	2.36E-03	2.52E-03	1.14E-04	3.53E-03	1.94E-06	0.02306658	7.55E-03	6.30E-04	2.36E-03	2.52E-03	1.14E-04	1.98E-04	3.53E-03	1.69E-02
2299	495561.06, 3859951.99	1.38E-02	6.27E-04	2.34E-03	2.51E-03	1.14E-04	3.51E-03	1.93E-06	0.0229244	7.50E-03	6.27E-04	2.34E-03	2.51E-03	1.14E-04	1.97E-04	3.51E-03	1.68E-02
2300	495611.06, 3859951.99	1.37E-02	6.20E-04	2.29E-03	2.50E-03	1.13E-04	3.47E-03	1.91E-06	0.02272421	7.45E-03	6.20E-04	2.29E-03	2.50E-03	1.13E-04	1.97E-04	3.47E-03	1.66E-02
2301	495661.06, 3859951.99	1.36E-02	6.13E-04	2.25E-03	2.48E-03	1.12E-04	3.42E-03	1.89E-06	0.02250959	7.39E-03	6.13E-04	2.25E-03	2.48E-03	1.12E-04	1.96E-04	3.42E-03	1.65E-02
2302	494311.06, 3860001.99	1.68E-02	8.24E-04	3.68E-03	2.78E-03	1.25E-04	4.50E-03	2.31E-06	0.02870324	9.18E-03	8.24E-04	3.68E-03	2.78E-03	1.25E-04	2.13E-04	4.50E-03	2.13E-02
2303	494361.06, 3860001.99	1.68E-02	8.14E-04	3.61E-03	2.77E-03	1.24E-04	4.46E-03	2.30E-06	0.02860649	9.20E-03	8.14E-04	3.61E-03	2.77E-03	1.24E-04	2.12E-04	4.46E-03	2.12E-02
2304	494411.06, 3860001.99	1.70E-02	7.99E-04	3.50E-03	2.75E-03	1.23E-04	4.39E-03	2.27E-06	0.02861521	9.28E-03	7.99E-04	3.50E-03	2.75E-03	1.23E-04	2.12E-04	4.39E-03	2.11E-02
2305	494461.06, 3860001.99	1.73E-02	7.93E-04	3.45E-03	2.74E-03	1.23E-04	4.35E-03	2.26E-06	0.02880717	9.42E-03	7.93E-04	3.45E-03	2.74E-03	1.23E-04	2.11E-04	4.35E-03	2.11E-02
2306	494511.06, 3860001.99	1.73E-02	7.82E-04	3.37E-03	2.73E-03	1.22E-04	4.30E-03	2.24E-06	0.02856935	9.36E-03	7.82E-04	3.37E-03	2.73E-03	1.22E-04	2.10E-04	4.30E-03	2.09E-02
2307	494561.06, 3860001.99	1.65E-02	7.90E-04	3.41E-03	2.73E-03	1.22E-04	4.33E-03	2.24E-06	0.02793343	9.03E-03	7.90E-04	3.41E-03	2.73E-03	1.22E-04	2.09E-04	4.33E-03	2.06E-02
2308	494611.06, 3860001.99	1.62E-02	7.78E-04	3.32E-03	2.72E-03	1.22E-04	4.28E-03	2.22E-06	0.02738989	8.83E-03	7.78E-04	3.32E-03	2.72E-03	1.22E-04	2.09E-04	4.28E-03	2.03E-02
2309	494661.06, 3860001.99	1.59E-02	7.72E-04	3.27E-03	2.71E-03	1.21E-04	4.24E-03	2.21E-06	0.02700222	8.68E-03	7.72E-04	3.27E-03	2.71E-03	1.21E-04	2.08E-04	4.24E-03	2.00E-02
2310	494711.06, 3860001.99	1.57E-02	7.51E-04	3.14E-03	2.68E-03	1.20E-04	4.14E-03	2.17E-06	0.02652345	8.56E-03	7.51E-04	3.14E-03	2.68E-03	1.20E-04	2.06E-04	4.14E-03	1.96E-02
2311	494761.06, 3860001.99	1.55E-02	7.51E-04	3.13E-03	2.68E-03	1.20E-04	4.14E-03	2.17E-06	0.02630178	8.46E-03	7.51E-04	3.13E-03	2.68E-03	1.20E-04	2.06E-04	4.14E-03	1.95E-02
2312	494811.06, 3860001.99	1.53E-02	7.46E-04	3.09E-03	2.67E-03	1.20E-04	4.11E-03	2.16E-06	0.02604493	8.37E-03	7.46E-04	3.09E-03	2.67E-03	1.20E-04	2.06E-04	4.11E-03	1.93E-02

2313	494861.06, 3860001.99	1.51E-02	7.43E-04	3.06E-03	2.66E-03	1.19E-04	4.09E-03	2.15E-06	0.02582018	8.29E-03	7.43E-04	3.06E-03	2.66E-03	1.19E-04	2.05E-04	4.09E-03	1.92E-02
2314	494911.06, 3860001.99	1.50E-02	7.24E-04	2.95E-03	2.64E-03	1.18E-04	4.00E-03	2.11E-06	0.02544328	8.20E-03	7.24E-04	2.95E-03	2.64E-03	1.18E-04	2.03E-04	4.00E-03	1.88E-02
2315	494961.06, 3860001.99	1.49E-02	7.20E-04	2.91E-03	2.63E-03	1.18E-04	3.97E-03	2.10E-06	0.02522674	8.13E-03	7.20E-04	2.91E-03	2.63E-03	1.18E-04	2.03E-04	3.97E-03	1.87E-02
2316	495011.06, 3860001.99	1.48E-02	7.12E-04	2.85E-03	2.62E-03	1.17E-04	3.93E-03	2.08E-06	0.02498532	8.06E-03	7.12E-04	2.85E-03	2.62E-03	1.17E-04	2.02E-04	3.93E-03	1.85E-02
2317	495061.06, 3860001.99	1.46E-02	7.08E-04	2.82E-03	2.61E-03	1.17E-04	3.90E-03	2.07E-06	0.02478329	7.99E-03	7.08E-04	2.82E-03	2.61E-03	1.17E-04	2.01E-04	3.90E-03	1.83E-02
2318	495111.06, 3860001.99	1.45E-02	6.99E-04	2.76E-03	2.59E-03	1.16E-04	3.86E-03	2.05E-06	0.0245444	7.93E-03	6.99E-04	2.76E-03	2.59E-03	1.16E-04	2.01E-04	3.86E-03	1.82E-02
2319	495161.06, 3860001.99	1.44E-02	6.90E-04	2.70E-03	2.58E-03	1.16E-04	3.81E-03	2.03E-06	0.02429955	7.86E-03	6.90E-04	2.70E-03	2.58E-03	1.16E-04	2.00E-04	3.81E-03	1.80E-02
2320	495211.06, 3860001.99	1.43E-02	6.86E-04	2.67E-03	2.57E-03	1.15E-04	3.79E-03	2.02E-06	0.02412939	7.80E-03	6.86E-04	2.67E-03	2.57E-03	1.15E-04	1.99E-04	3.79E-03	1.78E-02
2321	495261.06, 3860001.99	1.42E-02	6.79E-04	2.62E-03	2.56E-03	1.15E-04	3.74E-03	2.00E-06	0.02390131	7.74E-03	6.79E-04	2.62E-03	2.56E-03	1.15E-04	1.99E-04	3.74E-03	1.77E-02
2322	495311.06, 3860001.99	1.41E-02	6.73E-04	2.58E-03	2.55E-03	1.14E-04	3.71E-03	1.99E-06	0.02370524	7.68E-03	6.73E-04	2.58E-03	2.55E-03	1.14E-04	1.98E-04	3.71E-03	1.75E-02
2323	495361.06, 3860001.99	1.40E-02	6.63E-04	2.52E-03	2.53E-03	1.14E-04	3.65E-03	1.96E-06	0.02345622	7.62E-03	6.63E-04	2.52E-03	2.53E-03	1.14E-04	1.97E-04	3.65E-03	1.73E-02
2324	495411.06, 3860001.99	1.39E-02	6.60E-04	2.49E-03	2.52E-03	1.13E-04	3.63E-03	1.96E-06	0.02330065	7.57E-03	6.60E-04	2.49E-03	2.52E-03	1.13E-04	1.97E-04	3.63E-03	1.72E-02
2325	495461.06, 3860001.99	1.38E-02	6.53E-04	2.45E-03	2.51E-03	1.13E-04	3.60E-03	1.94E-06	0.02310968	7.51E-03	6.53E-04	2.45E-03	2.51E-03	1.13E-04	1.96E-04	3.60E-03	1.70E-02
2326	495511.06, 3860001.99	1.37E-02	6.47E-04	2.41E-03	2.50E-03	1.13E-04	3.56E-03	1.92E-06	0.02292429	7.46E-03	6.47E-04	2.41E-03	2.50E-03	1.13E-04	1.95E-04	3.56E-03	1.69E-02
2327	495561.06, 3860001.99	1.36E-02	6.44E-04	2.38E-03	2.49E-03	1.12E-04	3.54E-03	1.91E-06	0.02276519	7.41E-03	6.44E-04	2.38E-03	2.49E-03	1.12E-04	1.95E-04	3.54E-03	1.68E-02
2328	495611.06, 3860001.99	1.35E-02	6.36E-04	2.34E-03	2.47E-03	1.12E-04	3.49E-03	1.89E-06	0.02255648	7.36E-03	6.36E-04	2.34E-03	2.47E-03	1.12E-04	1.94E-04	3.49E-03	1.66E-02
2329	495661.06, 3860001.99	1.34E-02	6.29E-04	2.29E-03	2.46E-03	1.11E-04	3.45E-03	1.87E-06	0.02236808	7.31E-03	6.29E-04	2.29E-03	2.46E-03	1.11E-04	1.93E-04	3.45E-03	1.64E-02
2330	494411.06, 3860051.99	1.91E-02	8.23E-04	3.58E-03	2.72E-03	1.22E-04	4.41E-03	2.23E-06	0.03070209	1.03E-02	8.23E-04	3.58E-03	2.72E-03	1.22E-04	2.09E-04	4.41E-03	2.21E-02
2331	494461.06, 3860051.99	1.88E-02	8.13E-04	3.51E-03	2.70E-03	1.21E-04	4.36E-03	2.21E-06	0.03026929	1.01E-02	8.13E-04	3.51E-03	2.70E-03	1.21E-04	2.08E-04	4.36E-03	2.18E-02
2332	494511.06, 3860051.99	1.72E-02	8.04E-04	3.44E-03	2.69E-03	1.21E-04	4.32E-03	2.20E-06	0.02860253	9.37E-03	8.04E-04	3.44E-03	2.69E-03	1.21E-04	2.07E-04	4.32E-03	2.10E-02
2333	494561.06, 3860051.99	1.63E-02	8.04E-04	3.43E-03	2.69E-03	1.20E-04	4.31E-03	2.19E-06	0.02766337	8.93E-03	8.04E-04	3.43E-03	2.69E-03	1.20E-04	2.06E-04	4.31E-03	2.05E-02
2334	494611.06, 3860051.99	1.59E-02	7.99E-04	3.38E-03	2.68E-03	1.20E-04	4.29E-03	2.18E-06	0.02713839	8.71E-03	7.99E-04	3.38E-03	2.68E-03	1.20E-04	2.06E-04	4.29E-03	2.02E-02
2335	494661.06, 3860051.99	1.56E-02	7.93E-04	3.33E-03	2.67E-03	1.19E-04	4.25E-03	2.17E-06	0.02675004	8.56E-03	7.93E-04	3.33E-03	2.67E-03	1.19E-04	2.05E-04	4.25E-03	1.99E-02
2336	494711.06, 3860051.99	1.54E-02	7.78E-04	3.24E-03	2.65E-03	1.19E-04	4.18E-03	2.14E-06	0.02635509	8.45E-03	7.78E-04	3.24E-03	2.65E-03	1.19E-04	2.04E-04	4.18E-03	1.96E-02
2337	494761.06, 3860051.99	1.52E-02	7.72E-04	3.19E-03	2.64E-03	1.18E-04	4.15E-03	2.13E-06	0.0260723	8.34E-03	7.72E-04	3.19E-03	2.64E-03	1.18E-04	2.04E-04	4.15E-03	1.94E-02
2338	494811.06, 3860051.99	1.50E-02	7.70E-04	3.16E-03	2.64E-03	1.18E-04	4.14E-03	2.12E-06	0.02584606	8.26E-03	7.70E-04	3.16E-03	2.64E-03	1.18E-04	2.03E-04	4.14E-03	1.93E-02
2339	494861.06, 3860051.99	1.49E-02	7.67E-04	3.13E-03	2.63E-03	1.17E-04	4.12E-03	2.11E-06	0.02562782	8.18E-03	7.67E-04	3.13E-03	2.63E-03	1.17E-04	2.02E-04	4.12E-03	1.91E-02
2340	494911.06, 3860051.99	1.47E-02	7.55E-04	3.06E-03	2.62E-03	1.17E-04	4.06E-03	2.09E-06	0.02533923	8.10E-03	7.55E-04	3.06E-03	2.62E-03	1.17E-04	2.01E-04	4.06E-03	1.89E-02
2341	494961.06, 3860051.99	1.46E-02	7.44E-04	2.98E-03	2.60E-03	1.16E-04	4.01E-03	2.07E-06	0.02505146	8.02E-03	7.44E-04	2.98E-03	2.60E-03	1.16E-04	2.01E-04	4.01E-03	1.87E-02
2342	495011.06, 3860051.99	1.45E-02	7.34E-04	2.92E-03	2.59E-03	1.16E-04	3.96E-03	2.05E-06	0.02479142	7.95E-03	7.34E-04	2.92E-03	2.59E-03	1.16E-04	2.00E-04	3.96E-03	1.85E-02
2343	495061.06, 3860051.99	1.44E-02	7.26E-04	2.86E-03	2.58E-03	1.15E-04	3.91E-03	2.04E-06	0.02457184	7.89E-03	7.26E-04	2.86E-03	2.58E-03	1.15E-04	1.99E-04	3.91E-03	1.83E-02
2344	495111.06, 3860051.99	1.43E-02	7.15E-04	2.80E-03	2.56E-03	1.15E-04	3.86E-03	2.02E-06	0.0243122	7.82E-03	7.15E-04	2.80E-03	2.56E-03	1.15E-04	1.99E-04	3.86E-03	1.81E-02
2345	495161.06, 3860051.99	1.41E-02	7.08E-04	2.75E-03	2.55E-03	1.14E-04	3.82E-03	2.00E-06	0.02409026	7.76E-03	7.08E-04	2.75E-03	2.55E-03	1.14E-04	1.97E-04	3.82E-03	1.79E-02
2346	495211.06, 3860051.99	1.40E-02	6.99E-04	2.69E-03	2.54E-03	1.14E-04	3.78E-03	1.98E-06	0.02386796	7.70E-03	6.99E-04	2.69E-03	2.54E-03	1.14E-04	1.97E-04	3.78E-03	1.77E-02
2347	495261.06, 3860051.99	1.39E-02	6.95E-04	2.65E-03	2.53E-03	1.13E-04	3.75E-03	1.97E-06	0.02367872	7.64E-03	6.95E-04	2.65E-03	2.53E-03	1.13E-04	1.96E-04	3.75E-03	1.76E-02
2348	495311.06, 3860051.99	1.38E-02	6.90E-04	2.62E-03	2.52E-03	1.13E-04	3.72E-03	1.96E-06	0.02350153	7.58E-03	6.90E-04	2.62E-03	2.52E-03	1.13E-04	1.95E-04	3.72E-03	1.74E-02
2349	495361.06, 3860051.99	1.37E-02	6.84E-04	2.58E-03	2.51E-03	1.12E-04	3.69E-03	1.94E-06	0.02332154	7.53E-03	6.84E-04	2.58E-03	2.51E-03	1.12E-04	1.95E-04	3.69E-03	1.73E-02
2350	495411.06, 3860051.99	1.36E-02	6.78E-04	2.54E-03	2.50E-03	1.12E-04	3.65E-03	1.93E-06	0.02312242	7.47E-03	6.78E-04	2.54E-03	2.50E-03	1.12E-04	1.94E-04	3.65E-03	1.71E-02
2351	495461.06, 3860051.99	1.35E-02	6.71E-04	2.49E-03	2.48E-03	1.11E-04	3.62E-03	1.91E-06	0.02292342	7.42E-03	6.71E-04	2.49E-03	2.48E-03	1.11E-04	1.93E-04	3.62E-03	1.70E-02
2352	495511.06, 3860051.99	1.35E-02	6.66E-04	2.46E-03	2.47E-03	1.11E-04	3.59E-03	1.90E-06	0.02275983	7.37E-03	6.66E-04	2.46E-03	2.47E-03	1.11E-04	1.93E-04	3.59E-03	1.69E-02
2353	495561.06, 3860051.99	1.34E-02	6.60E-04	2.42E-03	2.46E-03	1.11E-04	3.55E-03	1.89E-06	0.02258012	7.32E-03	6.60E-04	2.42E-03	2.46E-03	1.11E-04	1.92E-04	3.55E-03	1.67E-02
2354	495611.06, 3860051.99	1.33E-02	6.53E-04	2.38E-03	2.45E-03	1.10E-04	3.52E-03	1.87E-06	0.02238546	7.27E-03	6.53E-04	2.38E-03	2.45E-03	1.10E-04	1.92E-04	3.52E-03	1.66E-02
2355	495661.06, 3860051.99	1.32E-02	6.45E-04	2.33E-03	2.44E-03	1.10E-04	3.47E-03	1.85E-06	0.02218179	7.22E-03	6.45E-04	2.33E-03	2.44E-03	1.10E-04	1.91E-04	3.47E-03	1.64E-02
2356	494411.06, 3860101.99	1.71E-02	8.36E-04	3.59E-03	2.67E-03	1.19E-04	4.38E-03	2.18E-06	0.0287131	9.36E-03	8.36E-04	3.59E-03	2.67E-03	1.19E-04	2.06E-04	4.38E-03	2.12E-02
2357	494461.06, 3860101.99	1.65E-02	8.36E-04	3.57E-03	2.67E-03	1.19E-04	4.37E-03	2.17E-06	0.028026	9.04E-03	8.36E-04	3.57E-03	2.67E-03	1.19E-04	2.05E-04	4.37E-03	2.08E-02
2358	494511.06, 3860101.99	1.61E-02	8.21E-04	3.47E-03	2.65E-03	1.18E-04	4.30E-03	2.15E-06	0.02743552	8.83E-03	8.21E-04	3.47E-03	2.65E-03	1.18E-04	2.04E-04	4.30E-03	2.04E-02
2359	494561.06, 3860101.99	1.57E-02	8.17E-04	3.43E-03	2.65E-03	1.18E-04	4.28E-03	2.14E-06	0.02703506	8.67E-03	8.17E-04	3.43E-03	2.65E-03	1.18E-04	2.03E-04	4.28E-03	2.02E-02
2360	494611.06, 3860101.99	1.55E-02	8.18E-04	3.41E-03	2.64E-03	1.18E-04	4.28E-03	2.13E-06	0.02674205	8.54E-03	8.18E-04	3.41E-03	2.64E-03	1.18E-04	2.03E-04	4.28E-03	2.00E-02
2361	494661.06, 3860101.99	1.52E-02	8.13E-04	3.37E-03	2.63E-03	1.17E-04	4.25E-03	2.12E-06	0.02642052	8.42E-03	8.13E-04	3.37E-03	2.63E-03	1.17E-04	2.02E-04	4.25E-03	1.98E-02
2362	494711.06, 3860101.99	1.51E-02	7.99E-04	3.28E-03	2.62E-03	1.17E-04	4.19E-03	2.10E-06	0.02607791	8.32E-03	7.99E-04	3.28E-03	2.62E-03	1.17E-04	2.01E-04	4.19E-03	1.95E-02
2363	494761.06, 3860101.99	1.49E-02	7.93E-04	3.23E-03	2.61E-03	1.16E-04	4.16E-03	2.09E-06	0.02580294	8.22E-03	7.93E-04	3.23E-03	2.61E-03	1.16E-04	2.01E-04	4.16E-03	1.93E-02
2364	494811.06, 3860101.99	1.47E-02	7.88E-04	3.19E-03	2.60E-03	1.16E-04	4.13E-03	2.08E-06	0.02556348	8.14E-03	7.88E-04	3.19E-03	2.60E-03	1.16E-04	2.00E-04	4.13E-03	1.92E-02
2365	494861.06, 3860101.99	1.45E-02	7.92E-04	3.20E-03	2.60E-03	1.15E-04	4.15E-03	2.07E-06	0.02539239	8.05E-03	7.92E-04	3.20E-03	2.60E-03	1.15E-04	1.99E-04	4.15E-03	1.91E-02
2366	494911.06, 3860101.99	1.45E-02	7.69E-04	3.06E-03	2.58E-03	1.15E-04	4.04E-03	2.05E-06	0.02503752	7.99E-03	7.69E-04	3.06E-03	2.58E-03	1.15E-04	1.99E-04	4.04E-03	1.88E-02

2367	494961.06, 3860101.99	1.43E-02	7.62E-04	3.02E-03	2.57E-03	1.14E-04	4.01E-03	2.03E-06	0.02480165	7.92E-03	7.62E-04	3.02E-03	2.57E-03	1.14E-04	1.98E-04	4.01E-03	1.86E-02
2368	495011.06, 3860101.99	1.42E-02	7.52E-04	2.95E-03	2.55E-03	1.14E-04	3.96E-03	2.01E-06	0.02454914	7.85E-03	7.52E-04	2.95E-03	2.55E-03	1.14E-04	1.97E-04	3.96E-03	1.84E-02
2369	495061.06, 3860101.99	1.41E-02	7.43E-04	2.89E-03	2.54E-03	1.13E-04	3.91E-03	2.00E-06	0.02431256	7.78E-03	7.43E-04	2.89E-03	2.54E-03	1.13E-04	1.97E-04	3.91E-03	1.82E-02
2370	495111.06, 3860101.99	1.40E-02	7.32E-04	2.82E-03	2.53E-03	1.13E-04	3.86E-03	1.98E-06	0.02406056	7.72E-03	7.32E-04	2.82E-03	2.53E-03	1.13E-04	1.96E-04	3.86E-03	1.80E-02
2371	495161.06, 3860101.99	1.39E-02	7.27E-04	2.78E-03	2.52E-03	1.13E-04	3.83E-03	1.97E-06	0.02387091	7.66E-03	7.27E-04	2.78E-03	2.52E-03	1.13E-04	1.95E-04	3.83E-03	1.78E-02
2372	495211.06, 3860101.99	1.38E-02	7.19E-04	2.74E-03	2.51E-03	1.12E-04	3.79E-03	1.95E-06	0.02366779	7.60E-03	7.19E-04	2.74E-03	2.51E-03	1.12E-04	1.95E-04	3.79E-03	1.77E-02
2373	495261.06, 3860101.99	1.37E-02	7.13E-04	2.69E-03	2.49E-03	1.12E-04	3.76E-03	1.94E-06	0.0234684	7.55E-03	7.13E-04	2.69E-03	2.49E-03	1.12E-04	1.94E-04	3.76E-03	1.75E-02
2374	495311.06, 3860101.99	1.36E-02	7.06E-04	2.65E-03	2.49E-03	1.11E-04	3.72E-03	1.93E-06	0.02326983	7.49E-03	7.06E-04	2.65E-03	2.49E-03	1.11E-04	1.93E-04	3.72E-03	1.74E-02
2375	495361.06, 3860101.99	1.35E-02	7.02E-04	2.61E-03	2.48E-03	1.11E-04	3.70E-03	1.91E-06	0.02310002	7.43E-03	7.02E-04	2.61E-03	2.48E-03	1.11E-04	1.93E-04	3.70E-03	1.72E-02
2376	495411.06, 3860101.99	1.34E-02	6.95E-04	2.57E-03	2.47E-03	1.10E-04	3.66E-03	1.90E-06	0.02292106	7.39E-03	6.95E-04	2.57E-03	2.47E-03	1.10E-04	1.92E-04	3.66E-03	1.71E-02
2377	495461.06, 3860101.99	1.33E-02	6.85E-04	2.51E-03	2.45E-03	1.10E-04	3.61E-03	1.88E-06	0.02270198	7.33E-03	6.85E-04	2.51E-03	2.45E-03	1.10E-04	1.91E-04	3.61E-03	1.69E-02
2378	495511.06, 3860101.99	1.32E-02	6.82E-04	2.48E-03	2.44E-03	1.09E-04	3.59E-03	1.87E-06	0.02253968	7.28E-03	6.82E-04	2.48E-03	2.44E-03	1.09E-04	1.90E-04	3.59E-03	1.68E-02
2379	495561.06, 3860101.99	1.31E-02	6.77E-04	2.46E-03	2.44E-03	1.09E-04	3.57E-03	1.86E-06	0.02239061	7.23E-03	6.77E-04	2.46E-03	2.44E-03	1.09E-04	1.90E-04	3.57E-03	1.67E-02
2380	495611.06, 3860101.99	1.31E-02	6.68E-04	2.40E-03	2.42E-03	1.08E-04	3.52E-03	1.84E-06	0.02218148	7.18E-03	6.68E-04	2.40E-03	2.42E-03	1.08E-04	1.89E-04	3.52E-03	1.65E-02
2381	495661.06, 3860101.99	1.30E-02	6.63E-04	2.37E-03	2.41E-03	1.08E-04	3.49E-03	1.83E-06	0.02200868	7.13E-03	6.63E-04	2.37E-03	2.41E-03	1.08E-04	1.88E-04	3.49E-03	1.64E-02
2382	494861.06, 3860151.99	1.42E-02	8.20E-04	3.25E-03	2.57E-03	1.13E-04	4.16E-03	2.03E-06	0.02515872	7.94E-03	8.20E-04	3.25E-03	2.57E-03	1.13E-04	1.96E-04	4.16E-03	1.91E-02
2383	494911.06, 3860151.99	1.42E-02	7.93E-04	3.11E-03	2.54E-03	1.13E-04	4.05E-03	2.01E-06	0.02479306	7.88E-03	7.93E-04	3.11E-03	2.54E-03	1.13E-04	1.96E-04	4.05E-03	1.87E-02
2384	494961.06, 3860151.99	1.41E-02	7.83E-04	3.05E-03	2.53E-03	1.13E-04	4.01E-03	1.99E-06	0.02454679	7.81E-03	7.83E-04	3.05E-03	2.53E-03	1.13E-04	1.95E-04	4.01E-03	1.85E-02
2385	495011.06, 3860151.99	1.39E-02	7.73E-04	2.98E-03	2.52E-03	1.12E-04	3.96E-03	1.98E-06	0.02429502	7.74E-03	7.73E-04	2.98E-03	2.52E-03	1.12E-04	1.94E-04	3.96E-03	1.83E-02
2386	495061.06, 3860151.99	1.38E-02	7.63E-04	2.92E-03	2.51E-03	1.12E-04	3.92E-03	1.96E-06	0.02406611	7.68E-03	7.63E-04	2.92E-03	2.51E-03	1.12E-04	1.94E-04	3.92E-03	1.81E-02
2387	495111.06, 3860151.99	1.37E-02	7.55E-04	2.87E-03	2.50E-03	1.11E-04	3.88E-03	1.95E-06	0.02385379	7.62E-03	7.55E-04	2.87E-03	2.50E-03	1.11E-04	1.93E-04	3.88E-03	1.79E-02
2388	495161.06, 3860151.99	1.36E-02	7.48E-04	2.82E-03	2.49E-03	1.11E-04	3.84E-03	1.93E-06	0.02365367	7.56E-03	7.48E-04	2.82E-03	2.49E-03	1.11E-04	1.92E-04	3.84E-03	1.78E-02
2389	495211.06, 3860151.99	1.35E-02	7.40E-04	2.77E-03	2.47E-03	1.10E-04	3.80E-03	1.92E-06	0.02344458	7.51E-03	7.40E-04	2.77E-03	2.47E-03	1.10E-04	1.92E-04	3.80E-03	1.76E-02
2390	495261.06, 3860151.99	1.35E-02	7.34E-04	2.73E-03	2.46E-03	1.10E-04	3.77E-03	1.91E-06	0.0232579	7.45E-03	7.34E-04	2.73E-03	2.46E-03	1.10E-04	1.91E-04	3.77E-03	1.74E-02
2391	495311.06, 3860151.99	1.33E-02	7.27E-04	2.68E-03	2.46E-03	1.10E-04	3.74E-03	1.89E-06	0.02305774	7.39E-03	7.27E-04	2.68E-03	2.46E-03	1.10E-04	1.91E-04	3.74E-03	1.73E-02
2392	495361.06, 3860151.99	1.33E-02	7.21E-04	2.64E-03	2.45E-03	1.09E-04	3.71E-03	1.88E-06	0.02288094	7.34E-03	7.21E-04	2.64E-03	2.45E-03	1.09E-04	1.90E-04	3.71E-03	1.72E-02
2393	495411.06, 3860151.99	1.32E-02	7.14E-04	2.60E-03	2.44E-03	1.09E-04	3.67E-03	1.87E-06	0.02270572	7.29E-03	7.14E-04	2.60E-03	2.44E-03	1.09E-04	1.89E-04	3.67E-03	1.70E-02
2394	495461.06, 3860151.99	1.31E-02	7.08E-04	2.56E-03	2.43E-03	1.08E-04	3.64E-03	1.86E-06	0.02252222	7.24E-03	7.08E-04	2.56E-03	2.43E-03	1.08E-04	1.89E-04	3.64E-03	1.69E-02
2395	495511.06, 3860151.99	1.30E-02	7.00E-04	2.51E-03	2.41E-03	1.08E-04	3.60E-03	1.84E-06	0.02233548	7.19E-03	7.00E-04	2.51E-03	2.41E-03	1.08E-04	1.88E-04	3.60E-03	1.67E-02
2396	495561.06, 3860151.99	1.29E-02	6.95E-04	2.48E-03	2.41E-03	1.07E-04	3.57E-03	1.83E-06	0.02217101	7.14E-03	6.95E-04	2.48E-03	2.41E-03	1.07E-04	1.88E-04	3.57E-03	1.66E-02
2397	495611.06, 3860151.99	1.28E-02	6.87E-04	2.43E-03	2.39E-03	1.07E-04	3.53E-03	1.82E-06	0.02199323	7.09E-03	6.87E-04	2.43E-03	2.39E-03	1.07E-04	1.87E-04	3.53E-03	1.64E-02
2398	495661.06, 3860151.99	1.28E-02	6.79E-04	2.39E-03	2.38E-03	1.06E-04	3.49E-03	1.80E-06	0.02180795	7.04E-03	6.79E-04	2.39E-03	2.38E-03	1.06E-04	1.87E-04	3.49E-03	1.63E-02
2399	495718.25, 3859442.96	1.52E-02	4.79E-04	1.70E-03	2.46E-03	1.18E-04	2.97E-03	1.85E-06	0.02294376	7.99E-03	4.79E-04	1.70E-03	2.46E-03	1.18E-04	2.08E-04	2.97E-03	1.59E-02
2400	495818.25, 3859442.96	1.49E-02	4.70E-04	1.65E-03	2.41E-03	1.16E-04	2.90E-03	1.80E-06	0.0224936	7.85E-03	4.70E-04	1.65E-03	2.41E-03	1.16E-04	2.05E-04	2.90E-03	1.56E-02
2401	495918.25, 3859442.96	1.47E-02	4.64E-04	1.61E-03	2.38E-03	1.15E-04	2.85E-03	1.76E-06	0.02212668	7.72E-03	4.64E-04	1.61E-03	2.38E-03	1.15E-04	2.02E-04	2.85E-03	1.53E-02
2402	496018.25, 3859442.96	1.45E-02	4.58E-04	1.58E-03	2.36E-03	1.13E-04	2.81E-03	1.73E-06	0.0217963	7.61E-03	4.58E-04	1.58E-03	2.36E-03	1.13E-04	2.01E-04	2.81E-03	1.51E-02
2403	496118.25, 3859442.96	1.43E-02	4.58E-04	1.58E-03	2.37E-03	1.14E-04	2.82E-03	1.74E-06	0.02166301	7.53E-03	4.58E-04	1.58E-03	2.37E-03	1.14E-04	2.02E-04	2.82E-03	1.51E-02
2404	496218.25, 3859442.96	1.42E-02	4.57E-04	1.57E-03	2.38E-03	1.14E-04	2.82E-03	1.74E-06	0.02150653	7.45E-03	4.57E-04	1.57E-03	2.38E-03	1.14E-04	2.03E-04	2.82E-03	1.50E-02
2405	496318.25, 3859442.96	1.40E-02	4.52E-04	1.54E-03	2.36E-03	1.13E-04	2.78E-03	1.71E-06	0.02121221	7.35E-03	4.52E-04	1.54E-03	2.36E-03	1.13E-04	2.01E-04	2.78E-03	1.48E-02
2406	496418.25, 3859442.96	1.38E-02	4.47E-04	1.51E-03	2.33E-03	1.12E-04	2.74E-03	1.68E-06	0.0209082	7.25E-03	4.47E-04	1.51E-03	2.33E-03	1.12E-04	2.00E-04	2.74E-03	1.46E-02
2407	495718.25, 3859542.96	1.50E-02	5.01E-04	1.81E-03	2.49E-03	1.18E-04	3.07E-03	1.88E-06	0.02297554	7.90E-03	5.01E-04	1.81E-03	2.49E-03	1.18E-04	2.08E-04	3.07E-03	1.61E-02
2408	495818.25, 3859542.96	1.47E-02	4.94E-04	1.76E-03	2.46E-03	1.17E-04	3.02E-03	1.84E-06	0.02259376	7.78E-03	4.94E-04	1.76E-03	2.46E-03	1.17E-04	2.05E-04	3.02E-03	1.58E-02
2409	495918.25, 3859542.96	1.45E-02	4.85E-04	1.71E-03	2.42E-03	1.15E-04	2.95E-03	1.80E-06	0.02218502	7.65E-03	4.85E-04	1.71E-03	2.42E-03	1.15E-04	2.03E-04	2.95E-03	1.55E-02
2410	496018.25, 3859542.96	1.43E-02	4.78E-04	1.67E-03	2.39E-03	1.14E-04	2.89E-03	1.76E-06	0.02182181	7.53E-03	4.78E-04	1.67E-03	2.39E-03	1.14E-04	2.01E-04	2.89E-03	1.53E-02
2411	496118.25, 3859542.96	1.41E-02	4.78E-04	1.67E-03	2.40E-03	1.14E-04	2.90E-03	1.77E-06	0.02166703	7.45E-03	4.78E-04	1.67E-03	2.40E-03	1.14E-04	2.01E-04	2.90E-03	1.52E-02
2412	496218.25, 3859542.96	1.39E-02	4.75E-04	1.65E-03	2.40E-03	1.14E-04	2.89E-03	1.76E-06	0.0214633	7.36E-03	4.75E-04	1.65E-03	2.40E-03	1.14E-04	2.01E-04	2.89E-03	1.51E-02
2413	496318.25, 3859542.96	1.38E-02	4.72E-04	1.63E-03	2.39E-03	1.13E-04	2.87E-03	1.75E-06	0.02123117	7.27E-03	4.72E-04	1.63E-03	2.39E-03	1.13E-04	2.00E-04	2.87E-03	1.49E-02
2414	496418.25, 3859542.96	1.36E-02	4.65E-04	1.59E-03	2.36E-03	1.12E-04	2.81E-03	1.71E-06	0.0209024	7.17E-03	4.65E-04	1.59E-03	2.36E-03	1.12E-04	1.98E-04	2.81E-03	1.47E-02
2415	495718.25, 3859642.96	1.47E-02	5.23E-04	1.90E-03	2.50E-03	1.17E-04	3.16E-03	1.89E-06	0.02291898	7.80E-03	5.23E-04	1.90E-03	2.50E-03	1.17E-04	2.06E-04	3.16E-03	1.62E-02
2416	495818.25, 3859642.96	1.45E-02	5.14E-04	1.85E-03	2.47E-03	1.16E-04	3.09E-03	1.85E-06	0.02250559	7.67E-03	5.14E-04	1.85E-03	2.47E-03	1.16E-04	2.04E-04	3.09E-03	1.59E-02
2417	495918.25, 3859642.96	1.42E-02	5.07E-04	1.81E-03	2.44E-03	1.15E-04	3.04E-03	1.82E-06	0.02215523	7.55E-03	5.07E-04	1.81E-03	2.44E-03	1.15E-04	2.02E-04	3.04E-03	1.57E-02
2418	496018.25, 3859642.96	1.40E-02	5.00E-04	1.76E-03	2.41E-03	1.13E-04	2.98E-03	1.78E-06	0.02179889	7.44E-03	5.00E-04	1.76E-03	2.41E-03	1.13E-04	2.00E-04	2.98E-03	1.54E-02
2419	496118.25, 3859642.96	1.39E-02	5.00E-04	1.76E-03	2.43E-03	1.14E-04	3.00E-03	1.79E-06	0.02168907	7.38E-03	5.00E-04	1.76E-03	2.43E-03	1.14E-04	2.00E-04	3.00E-03	1.54E-02
2420	496218.25, 3859642.96	1.37E-02	4.98E-04	1.75E-03	2.43E-03	1.13E-04	2.99E-03	1.79E-06	0.02149921	7.29E-03	4.98E-04	1.75E-03	2.43E-03	1.13E-04	2.00E-04	2.99E-03	1.53E-02

2421	496318.25, 3859642.96	1.35E-02	4.92E-04	1.71E-03	2.40E-03	1.12E-04	2.94E-03	1.76E-06	0.02118881	7.19E-03	4.92E-04	1.71E-03	2.40E-03	1.12E-04	1.98E-04	2.94E-03	1.50E-02
2422	496418.25, 3859642.96	1.32E-02	4.74E-04	1.61E-03	2.31E-03	1.09E-04	2.80E-03	1.66E-06	0.0205387	7.03E-03	4.74E-04	1.61E-03	2.31E-03	1.09E-04	1.93E-04	2.80E-03	1.45E-02
2423	495718.25, 3859742.96	1.44E-02	5.51E-04	2.02E-03	2.52E-03	1.16E-04	3.26E-03	1.91E-06	0.0228672	7.69E-03	5.51E-04	2.02E-03	2.52E-03	1.16E-04	2.04E-04	3.26E-03	1.64E-02
2424	495818.25, 3859742.96	1.42E-02	5.40E-04	1.95E-03	2.48E-03	1.15E-04	3.18E-03	1.86E-06	0.02246196	7.57E-03	5.40E-04	1.95E-03	2.48E-03	1.15E-04	2.02E-04	3.18E-03	1.60E-02
2425	495918.25, 3859742.96	1.40E-02	5.31E-04	1.90E-03	2.45E-03	1.14E-04	3.12E-03	1.83E-06	0.02209903	7.46E-03	5.31E-04	1.90E-03	2.45E-03	1.14E-04	2.00E-04	3.12E-03	1.58E-02
2426	496018.25, 3859742.96	1.38E-02	5.22E-04	1.84E-03	2.41E-03	1.12E-04	3.06E-03	1.79E-06	0.02172973	7.35E-03	5.22E-04	1.84E-03	2.41E-03	1.12E-04	1.98E-04	3.06E-03	1.55E-02
2427	496118.25, 3859742.96	1.36E-02	5.22E-04	1.84E-03	2.42E-03	1.12E-04	3.06E-03	1.79E-06	0.02157343	7.27E-03	5.22E-04	1.84E-03	2.42E-03	1.12E-04	1.98E-04	3.06E-03	1.54E-02
2428	496218.25, 3859742.96	1.34E-02	5.23E-04	1.84E-03	2.43E-03	1.12E-04	3.07E-03	1.80E-06	0.0214273	7.19E-03	5.23E-04	1.84E-03	2.43E-03	1.12E-04	1.98E-04	3.07E-03	1.54E-02
2429	496318.25, 3859742.96	1.32E-02	5.06E-04	1.74E-03	2.36E-03	1.10E-04	2.94E-03	1.72E-06	0.02088626	7.06E-03	5.06E-04	1.74E-03	2.36E-03	1.10E-04	1.94E-04	2.94E-03	1.49E-02
2430	496418.25, 3859742.96	1.30E-02	4.89E-04	1.65E-03	2.29E-03	1.07E-04	2.83E-03	1.65E-06	0.02037761	6.93E-03	4.89E-04	1.65E-03	2.29E-03	1.07E-04	1.91E-04	2.83E-03	1.45E-02
2431	495718.25, 3859842.96	1.40E-02	5.78E-04	2.12E-03	2.50E-03	1.14E-04	3.34E-03	1.90E-06	0.02264499	7.52E-03	5.78E-04	2.12E-03	2.50E-03	1.14E-04	2.00E-04	3.34E-03	1.64E-02
2432	495818.25, 3859842.96	1.38E-02	5.68E-04	2.06E-03	2.47E-03	1.13E-04	3.27E-03	1.87E-06	0.02228	7.41E-03	5.68E-04	2.06E-03	2.47E-03	1.13E-04	1.99E-04	3.27E-03	1.61E-02
2433	495918.25, 3859842.96	1.36E-02	5.58E-04	2.00E-03	2.45E-03	1.12E-04	3.21E-03	1.83E-06	0.02192855	7.31E-03	5.58E-04	2.00E-03	2.45E-03	1.12E-04	1.97E-04	3.21E-03	1.58E-02
2434	496018.25, 3859842.96	1.34E-02	5.52E-04	1.95E-03	2.43E-03	1.11E-04	3.16E-03	1.81E-06	0.02164531	7.22E-03	5.52E-04	1.95E-03	2.43E-03	1.11E-04	1.96E-04	3.16E-03	1.56E-02
2435	496118.25, 3859842.96	1.32E-02	5.53E-04	1.96E-03	2.44E-03	1.11E-04	3.18E-03	1.82E-06	0.02149134	7.13E-03	5.53E-04	1.96E-03	2.44E-03	1.11E-04	1.96E-04	3.18E-03	1.56E-02
2436	496218.25, 3859842.96	1.31E-02	5.37E-04	1.86E-03	2.38E-03	1.09E-04	3.06E-03	1.75E-06	0.02102703	7.03E-03	5.37E-04	1.86E-03	2.38E-03	1.09E-04	1.93E-04	3.06E-03	1.52E-02
2437	496318.25, 3859842.96	1.29E-02	5.07E-04	1.69E-03	2.26E-03	1.05E-04	2.84E-03	1.62E-06	0.02025346	6.88E-03	5.07E-04	1.69E-03	2.26E-03	1.05E-04	1.87E-04	2.84E-03	1.45E-02
2438	496418.25, 3859842.96	1.26E-02	4.89E-04	1.59E-03	2.17E-03	1.02E-04	2.70E-03	1.53E-06	0.01961653	6.71E-03	4.89E-04	1.59E-03	2.17E-03	1.02E-04	1.82E-04	2.70E-03	1.39E-02
2439	495718.25, 3859942.96	1.36E-02	6.06E-04	2.21E-03	2.47E-03	1.12E-04	3.39E-03	1.88E-06	0.02235579	7.35E-03	6.06E-04	2.21E-03	2.47E-03	1.12E-04	1.96E-04	3.39E-03	1.63E-02
2440	495818.25, 3859942.96	1.34E-02	5.95E-04	2.13E-03	2.44E-03	1.11E-04	3.32E-03	1.84E-06	0.02199855	7.25E-03	5.95E-04	2.13E-03	2.44E-03	1.11E-04	1.94E-04	3.32E-03	1.60E-02
2441	495918.25, 3859942.96	1.32E-02	5.87E-04	2.08E-03	2.42E-03	1.10E-04	3.27E-03	1.81E-06	0.0216882	7.16E-03	5.87E-04	2.08E-03	2.42E-03	1.10E-04	1.93E-04	3.27E-03	1.58E-02
2442	496018.25, 3859942.96	1.30E-02	5.85E-04	2.07E-03	2.42E-03	1.10E-04	3.26E-03	1.81E-06	0.02147583	7.06E-03	5.85E-04	2.07E-03	2.42E-03	1.10E-04	1.92E-04	3.26E-03	1.57E-02
2443	496118.25, 3859942.96	1.29E-02	5.70E-04	1.97E-03	2.38E-03	1.08E-04	3.16E-03	1.76E-06	0.02107875	6.97E-03	5.70E-04	1.97E-03	2.38E-03	1.08E-04	1.91E-04	3.16E-03	1.54E-02
2444	496218.25, 3859942.96	1.27E-02	5.47E-04	1.84E-03	2.31E-03	1.06E-04	3.01E-03	1.68E-06	0.02054756	6.87E-03	5.47E-04	1.84E-03	2.31E-03	1.06E-04	1.88E-04	3.01E-03	1.49E-02
2445	496318.25, 3859942.96	1.25E-02	5.25E-04	1.72E-03	2.23E-03	1.04E-04	2.86E-03	1.59E-06	0.01998499	6.75E-03	5.25E-04	1.72E-03	2.23E-03	1.04E-04	1.84E-04	2.86E-03	1.44E-02
2446	496418.25, 3859942.96	1.22E-02	5.00E-04	1.59E-03	2.11E-03	9.97E-05	2.67E-03	1.48E-06	0.01921728	6.57E-03	5.00E-04	1.59E-03	2.11E-03	9.97E-05	1.78E-04	2.67E-03	1.37E-02
2447	496856.82, 3858864.83	1.30E-02	3.53E-04	1.00E-03	1.97E-03	9.93E-05	2.16E-03	1.35E-06	0.01862841	6.78E-03	3.53E-04	1.00E-03	1.97E-03	9.93E-05	1.84E-04	2.16E-03	1.25E-02
2448	496956.82, 3858864.83	1.29E-02	3.50E-04	9.85E-04	1.94E-03	9.78E-05	2.12E-03	1.32E-06	0.01835102	6.68E-03	3.50E-04	9.85E-04	1.94E-03	9.78E-05	1.82E-04	2.12E-03	1.24E-02
2449	497056.82, 3858864.83	1.27E-02	3.47E-04	9.68E-04	1.91E-03	9.65E-05	2.09E-03	1.29E-06	0.01806672	6.58E-03	3.47E-04	9.68E-04	1.91E-03	9.65E-05	1.80E-04	2.09E-03	1.22E-02
2450	497156.82, 3858864.83	1.24E-02	3.44E-04	9.49E-04	1.88E-03	9.47E-05	2.05E-03	1.26E-06	0.01775308	6.47E-03	3.44E-04	9.49E-04	1.88E-03	9.47E-05	1.77E-04	2.05E-03	1.20E-02
2451	497256.82, 3858864.83	1.23E-02	3.42E-04	9.40E-04	1.87E-03	9.42E-05	2.03E-03	1.25E-06	0.01759179	6.41E-03	3.42E-04	9.40E-04	1.87E-03	9.42E-05	1.76E-04	2.03E-03	1.19E-02
2452	496856.82, 3858964.83	1.32E-02	3.64E-04	1.07E-03	2.02E-03	1.01E-04	2.23E-03	1.38E-06	0.01894954	6.85E-03	3.64E-04	1.07E-03	2.02E-03	1.01E-04	1.87E-04	2.23E-03	1.28E-02
2453	496956.82, 3858964.83	1.29E-02	3.60E-04	1.04E-03	1.97E-03	9.92E-05	2.18E-03	1.34E-06	0.01857572	6.73E-03	3.60E-04	1.04E-03	1.97E-03	9.92E-05	1.83E-04	2.18E-03	1.26E-02
2454	497056.82, 3858964.83	1.27E-02	3.56E-04	1.02E-03	1.94E-03	9.77E-05	2.14E-03	1.31E-06	0.01828037	6.63E-03	3.56E-04	1.02E-03	1.94E-03	9.77E-05	1.81E-04	2.14E-03	1.24E-02
2455	497156.82, 3858964.83	1.25E-02	3.53E-04	9.99E-04	1.91E-03	9.61E-05	2.10E-03	1.28E-06	0.01797194	6.52E-03	3.53E-04	9.99E-04	1.91E-03	9.61E-05	1.78E-04	2.10E-03	1.22E-02
2456	497256.82, 3858964.83	1.25E-02	3.53E-04	1.00E-03	1.93E-03	9.69E-05	2.11E-03	1.29E-06	0.01796929	6.50E-03	3.53E-04	1.00E-03	1.93E-03	9.69E-05	1.80E-04	2.11E-03	1.22E-02
2457	496856.82, 3859064.83	1.31E-02	3.73E-04	1.12E-03	2.03E-03	1.02E-04	2.28E-03	1.39E-06	0.01904778	6.85E-03	3.73E-04	1.12E-03	2.03E-03	1.02E-04	1.87E-04	2.28E-03	1.29E-02
2458	496956.82, 3859064.83	1.29E-02	3.69E-04	1.09E-03	2.00E-03	1.00E-04	2.23E-03	1.36E-06	0.01872462	6.74E-03	3.69E-04	1.09E-03	2.00E-03	1.00E-04	1.84E-04	2.23E-03	1.27E-02
2459	497056.82, 3859064.83	1.27E-02	3.66E-04	1.07E-03	1.97E-03	9.88E-05	2.20E-03	1.33E-06	0.01845248	6.65E-03	3.66E-04	1.07E-03	1.97E-03	9.88E-05	1.82E-04	2.20E-03	1.25E-02
2460	497156.82, 3859064.83	1.26E-02	3.63E-04	1.05E-03	1.95E-03	9.76E-05	2.17E-03	1.30E-06	0.01819493	6.56E-03	3.63E-04	1.05E-03	1.95E-03	9.76E-05	1.80E-04	2.17E-03	1.24E-02
2461	497256.82, 3859064.83	1.26E-02	3.65E-04	1.06E-03	1.98E-03	9.92E-05	2.19E-03	1.32E-06	0.01827207	6.56E-03	3.65E-04	1.06E-03	1.98E-03	9.92E-05	1.84E-04	2.19E-03	1.24E-02
2462	496856.82, 3859164.83	1.30E-02	3.80E-04	1.16E-03	2.03E-03	1.01E-04	2.29E-03	1.39E-06	0.01900071	6.81E-03	3.80E-04	1.16E-03	2.03E-03	1.01E-04	1.85E-04	2.29E-03	1.30E-02
2463	496956.82, 3859164.83	1.28E-02	3.76E-04	1.13E-03	1.99E-03	9.93E-05	2.25E-03	1.35E-06	0.01865587	6.69E-03	3.76E-04	1.13E-03	1.99E-03	9.93E-05	1.82E-04	2.25E-03	1.27E-02
2464	497056.82, 3859164.83	1.27E-02	3.73E-04	1.11E-03	1.98E-03	9.87E-05	2.23E-03	1.33E-06	0.01846403	6.62E-03	3.73E-04	1.11E-03	1.98E-03	9.87E-05	1.81E-04	2.23E-03	1.26E-02
2465	497156.82, 3859164.83	1.26E-02	3.74E-04	1.11E-03	1.99E-03	9.92E-05	2.23E-03	1.34E-06	0.01840708	6.59E-03	3.74E-04	1.11E-03	1.99E-03	9.92E-05	1.83E-04	2.23E-03	1.26E-02
2466	497256.82, 3859164.83	1.26E-02	3.78E-04	1.13E-03	2.04E-03	1.01E-04	2.27E-03	1.37E-06	0.01851974	6.60E-03	3.78E-04	1.13E-03	2.04E-03	1.01E-04	1.87E-04	2.27E-03	1.27E-02
2467	496856.82, 3859264.83	1.29E-02	3.87E-04	1.19E-03	2.01E-03	9.97E-05	2.29E-03	1.38E-06	0.0188406	6.73E-03	3.87E-04	1.19E-03	2.01E-03	9.97E-05	1.81E-04	2.29E-03	1.29E-02
2468	496956.82, 3859264.83	1.27E-02	3.85E-04	1.18E-03	2.01E-03	9.94E-05	2.28E-03	1.36E-06	0.01868898	6.67E-03	3.85E-04	1.18E-03	2.01E-03	9.94E-05	1.81E-04	2.28E-03	1.28E-02
2469	497056.82, 3859264.83	1.27E-02	3.86E-04	1.17E-03	2.02E-03	1.00E-04	2.29E-03	1.37E-06	0.01862598	6.63E-03	3.86E-04	1.17E-03	2.02E-03	1.00E-04	1.83E-04	2.29E-03	1.28E-02
2470	497156.82, 3859264.83	1.26E-02	3.86E-04	1.17E-03	2.03E-03	1.00E-04	2.29E-03	1.37E-06	0.01855263	6.59E-03	3.86E-04	1.17E-03	2.03E-03	1.00E-04	1.84E-04	2.29E-03	1.28E-02
2471	497256.82, 3859264.83	1.25E-02	3.89E-04	1.18E-03	2.07E-03	1.02E-04	2.33E-03	1.40E-06	0.01860001	6.57E-03	3.89E-04	1.18E-03	2.07E-03	1.02E-04	1.87E-04	2.33E-03	1.28E-02
2472	497088.92, 3858620.93	1.21E-02	3.22E-04	8.31E-04	1.79E-03	9.08E-05	1.92E-03	1.21E-06	0.01708346	6.30E-03	3.22E-04	8.31E-04	1.79E-03	9.08E-05	1.72E-04	1.92E-03	1.14E-02
2473	497138.92, 3858620.93	1.21E-02	3.22E-04	8.30E-04	1.79E-03	9.06E-05	1.91E-03	1.21E-06	0.01702234	6.27E-03	3.22E-04	8.30E-04	1.79E-03	9.06E-05	1.72E-04	1.91E-03	1.14E-02
2474	497188.92, 3858620.93	1.20E-02	3.20E-04	8.26E-04	1.78E-03	8.99E-05	1.89E-03	1.19E-06	0.01688199	6.22E-03	3.20E-04	8.26E-04	1.78E-03	8.99E-05	1.70E-04	1.89E-03	1.13E-02

2475	497238.92, 3858620.93	1.19E-02	3.19E-04	8.22E-04	1.77E-03	8.94E-05	1.88E-03	1.18E-06	0.01677882	6.18E-03	3.19E-04	8.22E-04	1.77E-03	8.94E-05	1.69E-04	1.88E-03	1.12E-02
2476	497088.92, 3858670.93	1.21E-02	3.25E-04	8.51E-04	1.80E-03	9.07E-05	1.93E-03	1.21E-06	0.01710636	6.29E-03	3.25E-04	8.51E-04	1.80E-03	9.07E-05	1.71E-04	1.93E-03	1.15E-02
2477	497138.92, 3858670.93	1.21E-02	3.25E-04	8.53E-04	1.80E-03	9.11E-05	1.93E-03	1.21E-06	0.01711203	6.29E-03	3.25E-04	8.53E-04	1.80E-03	9.11E-05	1.71E-04	1.93E-03	1.15E-02
2478	497188.92, 3858670.93	1.20E-02	3.24E-04	8.45E-04	1.79E-03	9.03E-05	1.91E-03	1.20E-06	0.0169633	6.24E-03	3.24E-04	8.45E-04	1.79E-03	9.03E-05	1.70E-04	1.91E-03	1.14E-02
2479	497238.92, 3858670.93	1.20E-02	3.24E-04	8.43E-04	1.78E-03	9.01E-05	1.91E-03	1.19E-06	0.0169174	6.22E-03	3.24E-04	8.43E-04	1.78E-03	9.01E-05	1.70E-04	1.91E-03	1.13E-02
2480	497088.92, 3858720.93	1.23E-02	3.31E-04	8.83E-04	1.83E-03	9.27E-05	1.98E-03	1.24E-06	0.01744954	6.41E-03	3.31E-04	8.83E-04	1.83E-03	9.27E-05	1.74E-04	1.98E-03	1.17E-02
2481	497138.92, 3858720.93	1.21E-02	3.27E-04	8.64E-04	1.79E-03	9.05E-05	1.93E-03	1.20E-06	0.01707225	6.27E-03	3.27E-04	8.64E-04	1.79E-03	9.05E-05	1.70E-04	1.93E-03	1.14E-02
2482	497188.92, 3858720.93	1.20E-02	3.26E-04	8.59E-04	1.78E-03	9.00E-05	1.92E-03	1.19E-06	0.01696713	6.23E-03	3.26E-04	8.59E-04	1.78E-03	9.00E-05	1.69E-04	1.92E-03	1.14E-02
2483	497238.92, 3858720.93	1.21E-02	3.28E-04	8.67E-04	1.80E-03	9.11E-05	1.94E-03	1.20E-06	0.01712695	6.29E-03	3.28E-04	8.67E-04	1.80E-03	9.11E-05	1.72E-04	1.94E-03	1.15E-02
2484	497088.92, 3858770.93	1.24E-02	3.35E-04	9.04E-04	1.84E-03	9.31E-05	2.00E-03	1.24E-06	0.01755081	6.43E-03	3.35E-04	9.04E-04	1.84E-03	9.31E-05	1.74E-04	2.00E-03	1.18E-02
2485	497138.92, 3858770.93	1.23E-02	3.33E-04	8.95E-04	1.83E-03	9.22E-05	1.98E-03	1.23E-06	0.01737934	6.37E-03	3.33E-04	8.95E-04	1.83E-03	9.22E-05	1.73E-04	1.98E-03	1.17E-02
2486	497188.92, 3858770.93	1.22E-02	3.31E-04	8.85E-04	1.81E-03	9.16E-05	1.96E-03	1.22E-06	0.01727486	6.34E-03	3.31E-04	8.85E-04	1.81E-03	9.16E-05	1.72E-04	1.96E-03	1.16E-02
2487	497238.92, 3858770.93	1.22E-02	3.32E-04	8.91E-04	1.82E-03	9.21E-05	1.97E-03	1.22E-06	0.01733704	6.36E-03	3.32E-04	8.91E-04	1.82E-03	9.21E-05	1.73E-04	1.97E-03	1.16E-02
2488	497396.65, 3858622.63	1.21E-02	3.25E-04	8.47E-04	1.83E-03	9.29E-05	1.93E-03	1.22E-06	0.01717684	6.31E-03	3.25E-04	8.47E-04	1.83E-03	9.29E-05	1.77E-04	1.93E-03	1.15E-02
2489	497496.65, 3858622.63	1.22E-02	3.28E-04	8.60E-04	1.87E-03	9.48E-05	1.96E-03	1.24E-06	0.01733969	6.35E-03	3.28E-04	8.60E-04	1.87E-03	9.48E-05	1.81E-04	1.96E-03	1.16E-02
2490	497596.65, 3858622.63	1.24E-02	3.34E-04	8.86E-04	1.94E-03	9.83E-05	2.02E-03	1.28E-06	0.01771046	6.46E-03	3.34E-04	8.86E-04	1.94E-03	9.83E-05	1.88E-04	2.02E-03	1.19E-02
2491	497696.65, 3858622.63	1.24E-02	3.36E-04	8.95E-04	1.96E-03	9.91E-05	2.03E-03	1.29E-06	0.01772479	6.45E-03	3.36E-04	8.95E-04	1.96E-03	9.91E-05	1.90E-04	2.03E-03	1.20E-02
2492	497796.65, 3858622.63	1.25E-02	3.40E-04	9.12E-04	2.00E-03	1.01E-04	2.07E-03	1.31E-06	0.01788527	6.48E-03	3.40E-04	9.12E-04	2.00E-03	1.01E-04	1.94E-04	2.07E-03	1.21E-02
2493	497896.65, 3858622.63	1.25E-02	3.44E-04	9.30E-04	2.04E-03	1.03E-04	2.10E-03	1.34E-06	0.01802468	6.50E-03	3.44E-04	9.30E-04	2.04E-03	1.03E-04	1.98E-04	2.10E-03	1.22E-02
2494	497396.65, 3858722.63	1.23E-02	3.35E-04	8.97E-04	1.88E-03	9.51E-05	2.00E-03	1.25E-06	0.01752312	6.40E-03	3.35E-04	8.97E-04	1.88E-03	9.51E-05	1.80E-04	2.00E-03	1.18E-02
2495	497496.65, 3858722.63	1.24E-02	3.38E-04	9.10E-04	1.92E-03	9.70E-05	2.03E-03	1.27E-06	0.01767785	6.44E-03	3.38E-04	9.10E-04	1.92E-03	9.70E-05	1.84E-04	2.03E-03	1.19E-02
2496	497596.65, 3858722.63	1.25E-02	3.43E-04	9.36E-04	1.98E-03	1.00E-04	2.09E-03	1.31E-06	0.01797185	6.51E-03	3.43E-04	9.36E-04	1.98E-03	1.00E-04	1.91E-04	2.09E-03	1.22E-02
2497	497696.65, 3858722.63	1.25E-02	3.46E-04	9.50E-04	2.02E-03	1.02E-04	2.12E-03	1.34E-06	0.01808602	6.53E-03	3.46E-04	9.50E-04	2.02E-03	1.02E-04	1.95E-04	2.12E-03	1.23E-02
2498	497796.65, 3858722.63	1.25E-02	3.48E-04	9.56E-04	2.04E-03	1.02E-04	2.13E-03	1.34E-06	0.01808212	6.51E-03	3.48E-04	9.56E-04	2.04E-03	1.02E-04	1.96E-04	2.13E-03	1.23E-02
2499	497896.65, 3858722.63	1.25E-02	3.51E-04	9.68E-04	2.07E-03	1.04E-04	2.15E-03	1.36E-06	0.01812889	6.50E-03	3.51E-04	9.68E-04	2.07E-03	1.04E-04	1.99E-04	2.15E-03	1.23E-02
2500	497396.65, 3858822.63	1.24E-02	3.43E-04	9.40E-04	1.91E-03	9.63E-05	2.05E-03	1.27E-06	0.01772661	6.45E-03	3.43E-04	9.40E-04	1.91E-03	9.63E-05	1.82E-04	2.05E-03	1.20E-02
2501	497496.65, 3858822.63	1.24E-02	3.45E-04	9.51E-04	1.94E-03	9.78E-05	2.08E-03	1.29E-06	0.01782372	6.46E-03	3.45E-04	9.51E-04	1.94E-03	9.78E-05	1.85E-04	2.08E-03	1.21E-02
2502	497596.65, 3858822.63	1.26E-02	3.51E-04	9.78E-04	2.02E-03	1.01E-04	2.15E-03	1.34E-06	0.01817599	6.55E-03	3.51E-04	9.78E-04	2.02E-03	1.01E-04	1.93E-04	2.15E-03	1.23E-02
2503	497696.65, 3858822.63	1.25E-02	3.54E-04	9.91E-04	2.04E-03	1.03E-04	2.17E-03	1.35E-06	0.01819896	6.53E-03	3.54E-04	9.91E-04	2.04E-03	1.03E-04	1.95E-04	2.17E-03	1.24E-02
2504	497796.65, 3858822.63	1.25E-02	3.55E-04	9.94E-04	2.06E-03	1.03E-04	2.18E-03	1.36E-06	0.01819231	6.51E-03	3.55E-04	9.94E-04	2.06E-03	1.03E-04	1.97E-04	2.18E-03	1.24E-02
2505	497896.65, 3858822.63	1.25E-02	3.61E-04	1.02E-03	2.11E-03	1.05E-04	2.23E-03	1.40E-06	0.01833597	6.53E-03	3.61E-04	1.02E-03	2.11E-03	1.05E-04	2.01E-04	2.23E-03	1.26E-02
2506	497396.65, 3858922.63	1.24E-02	3.51E-04	9.87E-04	1.94E-03	9.77E-05	2.11E-03	1.29E-06	0.01792698	6.48E-03	3.51E-04	9.87E-04	1.94E-03	9.77E-05	1.83E-04	2.11E-03	1.22E-02
2507	497496.65, 3858922.63	1.25E-02	3.57E-04	1.01E-03	2.01E-03	1.01E-04	2.17E-03	1.34E-06	0.01819702	6.54E-03	3.57E-04	1.01E-03	2.01E-03	1.01E-04	1.89E-04	2.17E-03	1.24E-02
2508	497596.65, 3858922.63	1.24E-02	3.56E-04	1.01E-03	2.00E-03	1.00E-04	2.16E-03	1.33E-06	0.01807439	6.49E-03	3.56E-04	1.01E-03	2.00E-03	1.00E-04	1.89E-04	2.16E-03	1.23E-02
2509	497696.65, 3858922.63	1.25E-02	3.62E-04	1.04E-03	2.08E-03	1.04E-04	2.24E-03	1.38E-06	0.01836072	6.54E-03	3.62E-04	1.04E-03	2.08E-03	1.04E-04	1.97E-04	2.24E-03	1.26E-02
2510	497796.65, 3858922.63	1.25E-02	3.67E-04	1.06E-03	2.12E-03	1.05E-04	2.27E-03	1.41E-06	0.01842682	6.54E-03	3.67E-04	1.06E-03	2.12E-03	1.05E-04	2.00E-04	2.27E-03	1.27E-02
2511	497896.65, 3858922.63	1.25E-02	3.73E-04	1.08E-03	2.18E-03	1.08E-04	2.34E-03	1.46E-06	0.01861177	6.55E-03	3.73E-04	1.08E-03	2.18E-03	1.08E-04	2.05E-04	2.34E-03	1.28E-02
2512	497364.44, 3858201.52	1.17E-02	3.00E-04	7.02E-04	1.75E-03	8.89E-05	1.77E-03	1.15E-06	0.01629034	6.05E-03	3.00E-04	7.02E-04	1.75E-03	8.89E-05	1.69E-04	1.77E-03	1.08E-02
2513	497414.44, 3858201.52	1.17E-02	3.00E-04	7.08E-04	1.76E-03	8.99E-05	1.78E-03	1.16E-06	0.01638816	6.08E-03	3.00E-04	7.08E-04	1.76E-03	8.99E-05	1.72E-04	1.78E-03	1.09E-02
2514	497464.44, 3858201.52	1.18E-02	3.02E-04	7.14E-04	1.78E-03	9.08E-05	1.79E-03	1.17E-06	0.01647145	6.11E-03	3.02E-04	7.14E-04	1.78E-03	9.08E-05	1.74E-04	1.79E-03	1.10E-02
2515	497514.44, 3858201.52	1.18E-02	3.03E-04	7.19E-04	1.78E-03	9.11E-05	1.79E-03	1.17E-06	0.01646427	6.10E-03	3.03E-04	7.19E-04	1.78E-03	9.11E-05	1.74E-04	1.79E-03	1.10E-02
2516	497564.44, 3858201.52	1.17E-02	3.02E-04	7.17E-04	1.78E-03	9.07E-05	1.79E-03	1.16E-06	0.0163949	6.07E-03	3.02E-04	7.17E-04	1.78E-03	9.07E-05	1.73E-04	1.79E-03	1.09E-02
2517	497614.44, 3858201.52	1.17E-02	3.02E-04	7.19E-04	1.78E-03	9.09E-05	1.79E-03	1.16E-06	0.01639393	6.07E-03	3.02E-04	7.19E-04	1.78E-03	9.09E-05	1.73E-04	1.79E-03	1.09E-02
2518	497364.44, 3858251.52	1.18E-02	3.04E-04	7.24E-04	1.78E-03	9.03E-05	1.80E-03	1.17E-06	0.01651452	6.12E-03	3.04E-04	7.24E-04	1.78E-03	9.03E-05	1.72E-04	1.80E-03	1.10E-02
2519	497414.44, 3858251.52	1.19E-02	3.05E-04	7.34E-04	1.80E-03	9.17E-05	1.82E-03	1.19E-06	0.01664565	6.16E-03	3.05E-04	7.34E-04	1.80E-03	9.17E-05	1.75E-04	1.82E-03	1.11E-02
2520	497464.44, 3858251.52	1.18E-02	3.05E-04	7.29E-04	1.78E-03	9.09E-05	1.81E-03	1.17E-06	0.01651742	6.12E-03	3.05E-04	7.29E-04	1.78E-03	9.09E-05	1.73E-04	1.81E-03	1.10E-02
2521	497514.44, 3858251.52	1.17E-02	3.03E-04	7.23E-04	1.77E-03	9.00E-05	1.79E-03	1.15E-06	0.01636558	6.06E-03	3.03E-04	7.23E-04	1.77E-03	9.00E-05	1.72E-04	1.79E-03	1.09E-02
2522	497564.44, 3858251.52	1.16E-02	3.03E-04	7.22E-04	1.76E-03	8.97E-05	1.78E-03	1.15E-06	0.01630181	6.04E-03	3.03E-04	7.22E-04	1.76E-03	8.97E-05	1.71E-04	1.78E-03	1.09E-02
2523	497614.44, 3858251.52	1.16E-02	3.02E-04	7.21E-04	1.75E-03	8.94E-05	1.77E-03	1.14E-06	0.01623775	6.01E-03	3.02E-04	7.21E-04	1.75E-03	8.94E-05	1.71E-04	1.77E-03	1.08E-02
2524	497364.44, 3858301.52	1.19E-02	3.06E-04	7.38E-04	1.78E-03	9.06E-05	1.82E-03	1.18E-06	0.01658684	6.14E-03	3.06E-04	7.38E-04	1.78E-03	9.06E-05	1.73E-04	1.82E-03	1.10E-02
2525	497414.44, 3858301.52	1.19E-02	3.07E-04	7.44E-04	1.80E-03	9.14E-05	1.83E-03	1.18E-06	0.01665615	6.16E-03	3.07E-04	7.44E-04	1.80E-03	9.14E-05	1.74E-04	1.83E-03	1.11E-02
2526	497464.44, 3858301.52	1.18E-02	3.06E-04	7.38E-04	1.78E-03	9.04E-05	1.81E-03	1.17E-06	0.01648734	6.10E-03	3.06E-04	7.38E-04	1.78E-03	9.04E-05	1.72E-04	1.81E-03	1.10E-02
2527	497514.44, 3858301.52	1.17E-02	3.05E-04	7.34E-04	1.76E-03	8.97E-05	1.80E-03	1.15E-06	0.01637846	6.06E-03	3.05E-04	7.34E-04	1.76E-03	8.97E-05	1.71E-04	1.80E-03	1.09E-02
2528	497564.44, 3858301.52	1.16E-02	3.04E-04	7.28E-04	1.74E-03	8.87E-05	1.78E-03	1.14E-06	0.01622609	6.01E-03	3.04E-04	7.28E-04	1.74E-03	8.87E-05	1.69E-04	1.78E-03	1.08E-02

2529	497614.44, 3858301.52	1.15E-02	3.03E-04	7.26E-04	1.74E-03	8.84E-05	1.77E-03	1.13E-06	0.01614573	5.98E-03	3.03E-04	7.26E-04	1.74E-03	8.84E-05	1.69E-04	1.77E-03	1.08E-02
2530	497364.44, 3858351.52	1.19E-02	3.09E-04	7.55E-04	1.79E-03	9.10E-05	1.84E-03	1.18E-06	0.01667622	6.16E-03	3.09E-04	7.55E-04	1.79E-03	9.10E-05	1.73E-04	1.84E-03	1.11E-02
2531	497414.44, 3858351.52	1.18E-02	3.08E-04	7.51E-04	1.78E-03	9.04E-05	1.82E-03	1.17E-06	0.01656742	6.13E-03	3.08E-04	7.51E-04	1.78E-03	9.04E-05	1.72E-04	1.82E-03	1.11E-02
2532	497464.44, 3858351.52	1.18E-02	3.08E-04	7.50E-04	1.77E-03	9.02E-05	1.82E-03	1.16E-06	0.01650572	6.10E-03	3.08E-04	7.50E-04	1.77E-03	9.02E-05	1.72E-04	1.82E-03	1.10E-02
2533	497514.44, 3858351.52	1.17E-02	3.07E-04	7.46E-04	1.76E-03	8.96E-05	1.81E-03	1.15E-06	0.01641613	6.07E-03	3.07E-04	7.46E-04	1.76E-03	8.96E-05	1.71E-04	1.81E-03	1.10E-02
2534	497564.44, 3858351.52	1.16E-02	3.05E-04	7.38E-04	1.74E-03	8.84E-05	1.78E-03	1.13E-06	0.01622314	6.00E-03	3.05E-04	7.38E-04	1.74E-03	8.84E-05	1.69E-04	1.78E-03	1.08E-02
2535	497614.44, 3858351.52	1.15E-02	3.05E-04	7.37E-04	1.73E-03	8.81E-05	1.78E-03	1.13E-06	0.0161584	5.98E-03	3.05E-04	7.37E-04	1.73E-03	8.81E-05	1.68E-04	1.78E-03	1.08E-02
2536	497364.44, 3858401.52	1.18E-02	3.09E-04	7.59E-04	1.77E-03	9.00E-05	1.84E-03	1.17E-06	0.0166114	6.14E-03	3.09E-04	7.59E-04	1.77E-03	9.00E-05	1.72E-04	1.84E-03	1.11E-02
2537	497414.44, 3858401.52	1.18E-02	3.09E-04	7.61E-04	1.77E-03	8.99E-05	1.83E-03	1.17E-06	0.01654335	6.11E-03	3.09E-04	7.61E-04	1.77E-03	8.99E-05	1.71E-04	1.83E-03	1.10E-02
2538	497464.44, 3858401.52	1.17E-02	3.09E-04	7.56E-04	1.76E-03	8.92E-05	1.81E-03	1.15E-06	0.01643286	6.07E-03	3.09E-04	7.56E-04	1.76E-03	8.92E-05	1.70E-04	1.81E-03	1.10E-02
2539	497514.44, 3858401.52	1.16E-02	3.08E-04	7.54E-04	1.75E-03	8.89E-05	1.81E-03	1.14E-06	0.01635029	6.04E-03	3.08E-04	7.54E-04	1.75E-03	8.89E-05	1.70E-04	1.81E-03	1.09E-02
2540	497564.44, 3858401.52	1.17E-02	3.09E-04	7.61E-04	1.77E-03	8.98E-05	1.82E-03	1.15E-06	0.01644272	6.07E-03	3.09E-04	7.61E-04	1.77E-03	8.98E-05	1.71E-04	1.82E-03	1.10E-02
2541	497614.44, 3858401.52	1.18E-02	3.10E-04	7.65E-04	1.78E-03	9.07E-05	1.83E-03	1.16E-06	0.01654064	6.10E-03	3.10E-04	7.65E-04	1.78E-03	9.07E-05	1.74E-04	1.83E-03	1.11E-02
2542	493478.11, 3860497.94	1.58E-02	1.51E-03	5.49E-03	2.49E-03	1.05E-04	4.98E-03	1.94E-06	0.0304038	9.55E-03	1.51E-03	5.49E-03	2.49E-03	1.05E-04	1.78E-04	4.98E-03	2.43E-02
2543	493528.11, 3860497.94	1.56E-02	1.48E-03	5.35E-03	2.48E-03	1.05E-04	4.93E-03	1.93E-06	0.0299823	9.42E-03	1.48E-03	5.35E-03	2.48E-03	1.05E-04	1.79E-04	4.93E-03	2.39E-02
2544	493478.11, 3860547.94	1.55E-02	1.57E-03	5.30E-03	2.43E-03	1.03E-04	4.89E-03	1.88E-06	0.0297896	9.46E-03	1.57E-03	5.30E-03	2.43E-03	1.03E-04	1.73E-04	4.89E-03	2.39E-02
2545	493528.11, 3860547.94	1.53E-02	1.54E-03	5.16E-03	2.43E-03	1.02E-04	4.85E-03	1.87E-06	0.02939923	9.34E-03	1.54E-03	5.16E-03	2.43E-03	1.02E-04	1.73E-04	4.85E-03	2.36E-02
2546	493478.11, 3860597.94	1.52E-02	1.64E-03	5.08E-03	2.38E-03	1.00E-04	4.80E-03	1.83E-06	0.0291945	9.39E-03	1.64E-03	5.08E-03	2.38E-03	1.00E-04	1.68E-04	4.80E-03	2.36E-02
2547	493528.11, 3860597.94	1.50E-02	1.61E-03	4.96E-03	2.38E-03	9.99E-05	4.76E-03	1.82E-06	0.02881365	9.27E-03	1.61E-03	4.96E-03	2.38E-03	9.99E-05	1.69E-04	4.76E-03	2.32E-02
2548	493561.88, 3860524.64	1.53E-02	1.49E-03	5.16E-03	2.45E-03	1.04E-04	4.86E-03	1.89E-06	0.02939526	9.29E-03	1.49E-03	5.16E-03	2.45E-03	1.04E-04	1.76E-04	4.86E-03	2.35E-02
2549	493591.88, 3860524.64	1.52E-02	1.47E-03	5.08E-03	2.44E-03	1.04E-04	4.83E-03	1.89E-06	0.02917137	9.22E-03	1.47E-03	5.08E-03	2.44E-03	1.04E-04	1.77E-04	4.83E-03	2.33E-02
2550	493561.88, 3860554.64	1.52E-02	1.53E-03	5.05E-03	2.42E-03	1.02E-04	4.81E-03	1.86E-06	0.02905721	9.25E-03	1.53E-03	5.05E-03	2.42E-03	1.02E-04	1.73E-04	4.81E-03	2.33E-02
2551	493591.88, 3860554.64	1.51E-02	1.51E-03	4.97E-03	2.41E-03	1.02E-04	4.78E-03	1.86E-06	0.02882488	9.17E-03	1.51E-03	4.97E-03	2.41E-03	1.02E-04	1.74E-04	4.78E-03	2.31E-02
2552	492880.5, 3860293.11	2.31E-02	1.78E-03	9.13E-03	2.78E-03	1.17E-04	6.07E-03	2.36E-06	0.04300553	1.34E-02	1.78E-03	9.13E-03	2.78E-03	1.17E-04	1.90E-04	6.07E-03	3.35E-02
2553	492930.5, 3860293.11	2.25E-02	1.72E-03	8.73E-03	2.78E-03	1.17E-04	6.00E-03	2.35E-06	0.04184175	1.30E-02	1.72E-03	8.73E-03	2.78E-03	1.17E-04	1.92E-04	6.00E-03	3.26E-02
2554	492980.5, 3860293.11	2.20E-02	1.66E-03	8.36E-03	2.78E-03	1.17E-04	5.92E-03	2.34E-06	0.04084307	1.27E-02	1.66E-03	8.36E-03	2.78E-03	1.17E-04	1.93E-04	5.92E-03	3.18E-02
2555	493030.5, 3860293.11	2.15E-02	1.56E-03	7.86E-03	2.78E-03	1.18E-04	5.82E-03	2.33E-06	0.03963851	1.24E-02	1.56E-03	7.86E-03	2.78E-03	1.18E-04	1.95E-04	5.82E-03	3.07E-02
2556	493080.5, 3860293.11	2.11E-02	1.46E-03	7.28E-03	2.78E-03	1.18E-04	5.67E-03	2.32E-06	0.03845062	1.21E-02	1.46E-03	7.28E-03	2.78E-03	1.18E-04	1.97E-04	5.67E-03	2.96E-02
2557	493130.5, 3860293.11	2.08E-02	1.47E-03	7.26E-03	2.77E-03	1.18E-04	5.67E-03	2.31E-06	0.03810673	1.19E-02	1.47E-03	7.26E-03	2.77E-03	1.18E-04	1.97E-04	5.67E-03	2.94E-02
2558	493180.5, 3860293.11	2.05E-02	1.47E-03	7.15E-03	2.76E-03	1.17E-04	5.64E-03	2.29E-06	0.03758812	1.17E-02	1.47E-03	7.15E-03	2.76E-03	1.17E-04	1.97E-04	5.64E-03	2.91E-02
2559	493230.5, 3860293.11	2.01E-02	1.44E-03	6.94E-03	2.75E-03	1.17E-04	5.59E-03	2.27E-06	0.0369767	1.16E-02	1.44E-03	6.94E-03	2.75E-03	1.17E-04	1.97E-04	5.59E-03	2.86E-02
2560	493280.5, 3860293.11	1.99E-02	1.38E-03	6.65E-03	2.74E-03	1.17E-04	5.50E-03	2.27E-06	0.03634288	1.14E-02	1.38E-03	6.65E-03	2.74E-03	1.17E-04	1.98E-04	5.50E-03	2.80E-02
2561	493330.5, 3860293.11	1.97E-02	1.35E-03	6.41E-03	2.74E-03	1.17E-04	5.43E-03	2.25E-06	0.03570319	1.12E-02	1.35E-03	6.41E-03	2.74E-03	1.17E-04	1.99E-04	5.43E-03	2.75E-02
2562	493380.5, 3860293.11	1.94E-02	1.32E-03	6.20E-03	2.73E-03	1.17E-04	5.37E-03	2.24E-06	0.03512229	1.10E-02	1.32E-03	6.20E-03	2.73E-03	1.17E-04	1.99E-04	5.37E-03	2.70E-02
2563	492880.5, 3860343.11	2.19E-02	1.86E-03	9.07E-03	2.72E-03	1.14E-04	5.97E-03	2.28E-06	0.04159108	1.29E-02	1.86E-03	9.07E-03	2.72E-03	1.14E-04	1.84E-04	5.97E-03	3.28E-02
2564	492930.5, 3860343.11	2.09E-02	1.80E-03	8.69E-03	2.71E-03	1.14E-04	5.90E-03	2.27E-06	0.04016135	1.24E-02	1.80E-03	8.69E-03	2.71E-03	1.14E-04	1.85E-04	5.90E-03	3.18E-02
2565	492980.5, 3860343.11	2.03E-02	1.69E-03	8.19E-03	2.72E-03	1.14E-04	5.81E-03	2.27E-06	0.03882945	1.19E-02	1.69E-03	8.19E-03	2.72E-03	1.14E-04	1.88E-04	5.81E-03	3.07E-02
2566	493030.5, 3860343.11	1.98E-02	1.64E-03	7.87E-03	2.72E-03	1.14E-04	5.74E-03	2.25E-06	0.03793193	1.17E-02	1.64E-03	7.87E-03	2.72E-03	1.14E-04	1.89E-04	5.74E-03	2.99E-02
2567	493080.5, 3860343.11	1.95E-02	1.55E-03	7.39E-03	2.72E-03	1.15E-04	5.63E-03	2.25E-06	0.03687366	1.14E-02	1.55E-03	7.39E-03	2.72E-03	1.15E-04	1.91E-04	5.63E-03	2.90E-02
2568	493130.5, 3860343.11	1.92E-02	1.52E-03	7.20E-03	2.71E-03	1.15E-04	5.58E-03	2.23E-06	0.03628908	1.12E-02	1.52E-03	7.20E-03	2.71E-03	1.15E-04	1.91E-04	5.58E-03	2.85E-02
2569	493180.5, 3860343.11	1.88E-02	1.52E-03	7.09E-03	2.70E-03	1.14E-04	5.56E-03	2.21E-06	0.03579972	1.10E-02	1.52E-03	7.09E-03	2.70E-03	1.14E-04	1.91E-04	5.56E-03	2.82E-02
2570	493230.5, 3860343.11	1.85E-02	1.49E-03	6.87E-03	2.69E-03	1.14E-04	5.50E-03	2.20E-06	0.03520885	1.08E-02	1.49E-03	6.87E-03	2.69E-03	1.14E-04	1.91E-04	5.50E-03	2.77E-02
2571	493280.5, 3860343.11	1.83E-02	1.44E-03	6.59E-03	2.69E-03	1.14E-04	5.43E-03	2.19E-06	0.03455888	1.07E-02	1.44E-03	6.59E-03	2.69E-03	1.14E-04	1.93E-04	5.43E-03	2.71E-02
2572	493330.5, 3860343.11	1.81E-02	1.39E-03	6.35E-03	2.68E-03	1.15E-04	5.36E-03	2.18E-06	0.03395245	1.05E-02	1.39E-03	6.35E-03	2.68E-03	1.15E-04	1.93E-04	5.36E-03	2.66E-02
2573	493380.5, 3860343.11	1.78E-02	1.36E-03	6.15E-03	2.67E-03	1.14E-04	5.30E-03	2.17E-06	0.03342741	1.03E-02	1.36E-03	6.15E-03	2.67E-03	1.14E-04	1.94E-04	5.30E-03	2.61E-02
2574	492880.5, 3860393.11	2.11E-02	1.95E-03	8.90E-03	2.65E-03	1.10E-04	5.86E-03	2.20E-06	0.04054422	1.26E-02	1.95E-03	8.90E-03	2.65E-03	1.10E-04	1.78E-04	5.86E-03	3.23E-02
2575	492930.5, 3860393.11	2.02E-02	1.88E-03	8.52E-03	2.65E-03	1.11E-04	5.79E-03	2.19E-06	0.03913415	1.21E-02	1.88E-03	8.52E-03	2.65E-03	1.11E-04	1.80E-04	5.79E-03	3.12E-02
2576	492980.5, 3860393.11	1.96E-02	1.79E-03	8.13E-03	2.65E-03	1.11E-04	5.72E-03	2.19E-06	0.03799059	1.17E-02	1.79E-03	8.13E-03	2.65E-03	1.11E-04	1.81E-04	5.72E-03	3.03E-02
2577	493030.5, 3860393.11	1.91E-02	1.72E-03	7.78E-03	2.65E-03	1.11E-04	5.65E-03	2.18E-06	0.03704024	1.14E-02	1.72E-03	7.78E-03	2.65E-03	1.11E-04	1.83E-04	5.65E-03	2.95E-02
2578	493080.5, 3860393.11	1.88E-02	1.62E-03	7.33E-03	2.66E-03	1.12E-04	5.55E-03	2.18E-06	0.03604079	1.11E-02	1.62E-03	7.33E-03	2.66E-03	1.12E-04	1.85E-04	5.55E-03	2.86E-02
2579	493130.5, 3860393.11	1.84E-02	1.60E-03	7.15E-03	2.65E-03	1.12E-04	5.51E-03	2.16E-06	0.03547067	1.09E-02	1.60E-03	7.15E-03	2.65E-03	1.12E-04	1.85E-04	5.51E-03	2.81E-02
2580	493180.5, 3860393.11	1.81E-02	1.60E-03	7.00E-03	2.64E-03	1.11E-04	5.47E-03	2.14E-06	0.03495535	1.08E-02	1.60E-03	7.00E-03	2.64E-03	1.11E-04	1.85E-04	5.47E-03	2.78E-02
2581	493230.5, 3860393.11	1.79E-02	1.55E-03	6.76E-03	2.63E-03	1.11E-04	5.42E-03	2.13E-06	0.03434181	1.06E-02	1.55E-03	6.76E-03	2.63E-03	1.11E-04	1.86E-04	5.42E-03	2.73E-02
2582	493280.5, 3860393.11	1.76E-02	1.49E-03	6.48E-03	2.63E-03	1.12E-04	5.35E-03	2.12E-06	0.03368922	1.04E-02	1.49E-03	6.48E-03	2.63E-03	1.12E-04	1.87E-04	5.35E-03	2.67E-02

2583	493330.5, 3860393.11	1.74E-02	1.45E-03	6.25E-03	2.63E-03	1.12E-04	5.28E-03	2.11E-06	0.03310423	1.02E-02	1.45E-03	6.25E-03	2.63E-03	1.12E-04	1.88E-04	5.28E-03	2.61E-02
2584	493380.5, 3860393.11	1.72E-02	1.41E-03	6.06E-03	2.62E-03	1.12E-04	5.22E-03	2.10E-06	0.03258166	1.01E-02	1.41E-03	6.06E-03	2.62E-03	1.12E-04	1.89E-04	5.22E-03	2.57E-02
2585	492880.5, 3860443.11	1.98E-02	2.04E-03	8.61E-03	2.59E-03	1.07E-04	5.75E-03	2.13E-06	0.03887449	1.21E-02	2.04E-03	8.61E-03	2.59E-03	1.07E-04	1.73E-04	5.75E-03	3.14E-02
2586	492930.5, 3860443.11	1.93E-02	1.98E-03	8.26E-03	2.59E-03	1.07E-04	5.68E-03	2.12E-06	0.03793017	1.18E-02	1.98E-03	8.26E-03	2.59E-03	1.07E-04	1.74E-04	5.68E-03	3.06E-02
2587	492980.5, 3860443.11	1.89E-02	1.89E-03	7.93E-03	2.59E-03	1.08E-04	5.62E-03	2.11E-06	0.037047	1.15E-02	1.89E-03	7.93E-03	2.59E-03	1.08E-04	1.75E-04	5.62E-03	2.98E-02
2588	493030.5, 3860443.11	1.85E-02	1.82E-03	7.61E-03	2.59E-03	1.08E-04	5.55E-03	2.11E-06	0.03621498	1.12E-02	1.82E-03	7.61E-03	2.59E-03	1.08E-04	1.77E-04	5.55E-03	2.91E-02
2589	493080.5, 3860443.11	1.82E-02	1.76E-03	7.32E-03	2.59E-03	1.08E-04	5.49E-03	2.10E-06	0.03547015	1.10E-02	1.76E-03	7.32E-03	2.59E-03	1.08E-04	1.78E-04	5.49E-03	2.84E-02
2590	493130.5, 3860443.11	1.79E-02	1.70E-03	7.05E-03	2.58E-03	1.08E-04	5.43E-03	2.09E-06	0.03478889	1.08E-02	1.70E-03	7.05E-03	2.58E-03	1.08E-04	1.79E-04	5.43E-03	2.79E-02
2591	493180.5, 3860443.11	1.76E-02	1.68E-03	6.85E-03	2.57E-03	1.08E-04	5.39E-03	2.07E-06	0.03422548	1.06E-02	1.68E-03	6.85E-03	2.57E-03	1.08E-04	1.79E-04	5.39E-03	2.74E-02
2592	493230.5, 3860443.11	1.74E-02	1.61E-03	6.59E-03	2.58E-03	1.08E-04	5.32E-03	2.06E-06	0.03356648	1.04E-02	1.61E-03	6.59E-03	2.58E-03	1.08E-04	1.81E-04	5.32E-03	2.68E-02
2593	493280.5, 3860443.11	1.71E-02	1.56E-03	6.35E-03	2.57E-03	1.09E-04	5.26E-03	2.06E-06	0.03298454	1.02E-02	1.56E-03	6.35E-03	2.57E-03	1.09E-04	1.82E-04	5.26E-03	2.63E-02
2594	493330.5, 3860443.11	1.69E-02	1.50E-03	6.10E-03	2.57E-03	1.09E-04	5.20E-03	2.05E-06	0.03237376	1.01E-02	1.50E-03	6.10E-03	2.57E-03	1.09E-04	1.83E-04	5.20E-03	2.57E-02
2595	493380.5, 3860443.11	1.67E-02	1.47E-03	5.94E-03	2.57E-03	1.09E-04	5.15E-03	2.04E-06	0.03191372	9.92E-03	1.47E-03	5.94E-03	2.57E-03	1.09E-04	1.83E-04	5.15E-03	2.53E-02
2596	493180.5, 3860493.11	1.72E-02	1.75E-03	6.61E-03	2.52E-03	1.05E-04	5.29E-03	2.01E-06	0.03345454	1.05E-02	1.75E-03	6.61E-03	2.52E-03	1.05E-04	1.74E-04	5.29E-03	2.69E-02
2597	493230.5, 3860493.11	1.69E-02	1.69E-03	6.38E-03	2.52E-03	1.06E-04	5.23E-03	2.00E-06	0.03284951	1.03E-02	1.69E-03	6.38E-03	2.52E-03	1.06E-04	1.75E-04	5.23E-03	2.64E-02
2598	493280.5, 3860493.11	1.67E-02	1.63E-03	6.16E-03	2.52E-03	1.06E-04	5.17E-03	1.99E-06	0.03228377	1.01E-02	1.63E-03	6.16E-03	2.52E-03	1.06E-04	1.76E-04	5.17E-03	2.59E-02
2599	493330.5, 3860493.11	1.65E-02	1.58E-03	5.96E-03	2.51E-03	1.06E-04	5.12E-03	1.98E-06	0.03175565	9.95E-03	1.58E-03	5.96E-03	2.51E-03	1.06E-04	1.77E-04	5.12E-03	2.54E-02
2600	493380.5, 3860493.11	1.63E-02	1.55E-03	5.80E-03	2.51E-03	1.06E-04	5.07E-03	1.97E-06	0.03129303	9.81E-03	1.55E-03	5.80E-03	2.51E-03	1.06E-04	1.78E-04	5.07E-03	2.50E-02
2601	493330.5, 3860543.11	1.61E-02	1.65E-03	5.75E-03	2.46E-03	1.03E-04	5.03E-03	1.92E-06	0.03110666	9.86E-03	1.65E-03	5.75E-03	2.46E-03	1.03E-04	1.72E-04	5.03E-03	2.50E-02
2602	493380.5, 3860543.11	1.59E-02	1.62E-03	5.60E-03	2.45E-03	1.03E-04	4.98E-03	1.91E-06	0.03066442	9.72E-03	1.62E-03	5.60E-03	2.45E-03	1.03E-04	1.73E-04	4.98E-03	2.46E-02
2603	494135.94, 3860876.85	1.25E-02	1.67E-03	3.08E-03	2.07E-03	8.72E-05	3.87E-03	1.47E-06	0.02322765	8.10E-03	1.67E-03	3.08E-03	2.07E-03	8.72E-05	1.51E-04	3.87E-03	1.90E-02
2604	494185.94, 3860876.85	1.24E-02	1.64E-03	3.03E-03	2.07E-03	8.72E-05	3.84E-03	1.47E-06	0.02301774	8.02E-03	1.64E-03	3.03E-03	2.07E-03	8.72E-05	1.52E-04	3.84E-03	1.88E-02
2605	494135.94, 3860926.85	1.24E-02	1.78E-03	2.94E-03	2.03E-03	8.51E-05	3.79E-03	1.43E-06	0.02305205	8.22E-03	1.78E-03	2.94E-03	2.03E-03	8.51E-05	1.47E-04	3.79E-03	1.90E-02
2606	494185.94, 3860926.85	1.23E-02	1.75E-03	2.90E-03	2.02E-03	8.51E-05	3.76E-03	1.43E-06	0.0228493	8.13E-03	1.75E-03	2.90E-03	2.02E-03	8.51E-05	1.47E-04	3.76E-03	1.88E-02
2607	494135.94, 3860976.85	1.25E-02	1.91E-03	2.81E-03	1.99E-03	8.31E-05	3.71E-03	1.39E-06	0.02295568	8.39E-03	1.91E-03	2.81E-03	1.99E-03	8.31E-05	1.43E-04	3.71E-03	1.90E-02
2608	494185.94, 3860976.85	1.23E-02	1.87E-03	2.78E-03	1.98E-03	8.31E-05	3.69E-03	1.39E-06	0.02274341	8.29E-03	1.87E-03	2.78E-03	1.98E-03	8.31E-05	1.43E-04	3.69E-03	1.88E-02
2609	494135.94, 3861026.85	1.26E-02	2.07E-03	2.68E-03	1.94E-03	8.10E-05	3.64E-03	1.36E-06	0.02296377	8.63E-03	2.07E-03	2.68E-03	1.94E-03	8.10E-05	1.39E-04	3.64E-03	1.92E-02
2610	494185.94, 3861026.85	1.24E-02	2.02E-03	2.65E-03	1.94E-03	8.11E-05	3.61E-03	1.35E-06	0.02273894	8.52E-03	2.02E-03	2.65E-03	1.94E-03	8.11E-05	1.40E-04	3.61E-03	1.90E-02
2611	494135.94, 3861076.85	1.27E-02	2.26E-03	2.55E-03	1.90E-03	7.91E-05	3.56E-03	1.32E-06	0.02309386	8.95E-03	2.26E-03	2.55E-03	1.90E-03	7.91E-05	1.35E-04	3.56E-03	1.94E-02
2612	494185.94, 3861076.85	1.26E-02	2.21E-03	2.53E-03	1.90E-03	7.92E-05	3.54E-03	1.32E-06	0.02284821	8.82E-03	2.21E-03	2.53E-03	1.90E-03	7.92E-05	1.36E-04	3.54E-03	1.92E-02
2613	490360.04, 3858710.04	4.58E-02	1.55E-03	4.79E-03	9.41E-03	4.29E-04	1.27E-02	2.10E-05	0.07473266	2.43E-02	1.55E-03	4.79E-03	9.41E-03	4.29E-04	4.70E-04	1.27E-02	5.36E-02
2614	490410.04, 3858710.04	4.51E-02	1.51E-03	4.68E-03	9.28E-03	4.21E-04	1.24E-02	2.05E-05	0.07342685	2.38E-02	1.51E-03	4.68E-03	9.28E-03	4.21E-04	4.72E-04	1.24E-02	5.26E-02
2615	490460.04, 3858710.04	4.45E-02	1.46E-03	4.51E-03	9.14E-03	4.13E-04	1.20E-02	2.01E-05	0.07208637	2.35E-02	1.46E-03	4.51E-03	9.14E-03	4.13E-04	4.73E-04	1.20E-02	5.15E-02
2616	490510.04, 3858710.04	4.38E-02	1.42E-03	4.40E-03	9.01E-03	4.06E-04	1.18E-02	1.97E-05	0.07087738	2.31E-02	1.42E-03	4.40E-03	9.01E-03	4.06E-04	4.74E-04	1.18E-02	5.06E-02
2617	490560.04, 3858710.04	4.32E-02	1.38E-03	4.31E-03	8.88E-03	4.00E-04	1.16E-02	1.93E-05	0.06973279	2.28E-02	1.38E-03	4.31E-03	8.88E-03	4.00E-04	4.74E-04	1.16E-02	4.98E-02
2618	490610.04, 3858710.04	4.26E-02	1.35E-03	4.22E-03	8.76E-03	3.94E-04	1.13E-02	1.89E-05	0.0686176	2.24E-02	1.35E-03	4.22E-03	8.76E-03	3.94E-04	4.74E-04	1.13E-02	4.89E-02
2619	490660.04, 3858710.04	4.19E-02	1.32E-03	4.17E-03	8.65E-03	3.88E-04	1.12E-02	1.86E-05	0.06762459	2.21E-02	1.32E-03	4.17E-03	8.65E-03	3.88E-04	4.73E-04	1.12E-02	4.82E-02
2620	490710.04, 3858710.04	4.14E-02	1.28E-03	4.05E-03	8.49E-03	3.82E-04	1.09E-02	1.81E-05	0.06650625	2.18E-02	1.28E-03	4.05E-03	8.49E-03	3.82E-04	4.73E-04	1.09E-02	4.73E-02
2621	490760.04, 3858710.04	4.09E-02	1.25E-03	3.95E-03	8.37E-03	3.76E-04	1.06E-02	1.77E-05	0.06546474	2.15E-02	1.25E-03	3.95E-03	8.37E-03	3.76E-04	4.72E-04	1.06E-02	4.65E-02
2622	490810.04, 3858710.04	4.03E-02	1.22E-03	3.85E-03	8.25E-03	3.70E-04	1.04E-02	1.72E-05	0.064464	2.12E-02	1.22E-03	3.85E-03	8.25E-03	3.70E-04	4.71E-04	1.04E-02	4.57E-02
2623	490860.04, 3858710.04	3.99E-02	1.19E-03	3.72E-03	8.12E-03	3.64E-04	1.01E-02	1.66E-05	0.06343915	2.09E-02	1.19E-03	3.72E-03	8.12E-03	3.64E-04	4.70E-04	1.01E-02	4.49E-02
2624	490360.04, 3858760.04	4.63E-02	1.61E-03	5.40E-03	9.07E-03	4.14E-04	1.30E-02	1.96E-05	0.07574705	2.45E-02	1.61E-03	5.40E-03	9.07E-03	4.14E-04	4.52E-04	1.30E-02	5.45E-02
2625	490410.04, 3858760.04	4.55E-02	1.56E-03	5.23E-03	8.95E-03	4.07E-04	1.26E-02	1.91E-05	0.07434414	2.41E-02	1.56E-03	5.23E-03	8.95E-03	4.07E-04	4.54E-04	1.26E-02	5.34E-02
2626	490460.04, 3858760.04	4.48E-02	1.51E-03	5.06E-03	8.83E-03	4.00E-04	1.23E-02	1.87E-05	0.07295859	2.37E-02	1.51E-03	5.06E-03	8.83E-03	4.00E-04	4.56E-04	1.23E-02	5.23E-02
2627	490510.04, 3858760.04	4.42E-02	1.46E-03	4.88E-03	8.70E-03	3.93E-04	1.20E-02	1.82E-05	0.0716127	2.33E-02	1.46E-03	4.88E-03	8.70E-03	3.93E-04	4.57E-04	1.20E-02	5.12E-02
2628	490560.04, 3858760.04	4.35E-02	1.42E-03	4.74E-03	8.58E-03	3.86E-04	1.17E-02	1.78E-05	0.07037529	2.30E-02	1.42E-03	4.74E-03	8.58E-03	3.86E-04	4.58E-04	1.17E-02	5.03E-02
2629	490610.04, 3858760.04	4.29E-02	1.38E-03	4.60E-03	8.46E-03	3.80E-04	1.14E-02	1.73E-05	0.06916166	2.26E-02	1.38E-03	4.60E-03	8.46E-03	3.80E-04	4.58E-04	1.14E-02	4.93E-02
2630	490660.04, 3858760.04	4.23E-02	1.35E-03	4.48E-03	8.31E-03	3.74E-04	1.12E-02	1.69E-05	0.06798839	2.23E-02	1.35E-03	4.48E-03	8.31E-03	3.74E-04	4.59E-04	1.12E-02	4.84E-02
2631	490710.04, 3858760.04	4.17E-02	1.31E-03	4.36E-03	8.20E-03	3.68E-04	1.09E-02	1.65E-05	0.06688224	2.20E-02	1.31E-03	4.36E-03	8.20E-03	3.68E-04	4.58E-04	1.09E-02	4.76E-02
2632	490760.04, 3858760.04	4.12E-02	1.27E-03	4.21E-03	8.07E-03	3.62E-04	1.06E-02	1.60E-05	0.06576465	2.16E-02	1.27E-03	4.21E-03	8.07E-03	3.62E-04	4.58E-04	1.06E-02	4.67E-02
2633	490810.04, 3858760.04	4.07E-02	1.24E-03	4.08E-03	7.95E-03	3.57E-04	1.04E-02	1.55E-05	0.064698	2.13E-02	1.24E-03	4.08E-03	7.95E-03	3.57E-04	4.57E-04	1.04E-02	4.58E-02
2634	490860.04, 3858760.04	4.02E-02	1.21E-03	3.98E-03	7.84E-03	3.51E-04	1.02E-02	1.51E-05	0.06370937	2.11E-02	1.21E-03	3.98E-03	7.84E-03	3.51E-04	4.56E-04	1.02E-02	4.51E-02
2635	490360.04, 3858810.04	4.68E-02	1.68E-03	6.02E-03	8.73E-03	3.98E-04	1.32E-02	1.84E-05	0.07681855	2.49E-02	1.68E-03	6.02E-03	8.73E-03	3.98E-04	4.35E-04	1.32E-02	5.53E-02
2636	490410.04, 3858810.04	4.60E-02	1.62E-03	5.81E-03	8.62E-03	3.91E-04	1.28E-02	1.79E-05	0.0752984	2.44E-02	1.62E-03	5.81E-03	8.62E-03	3.91E-04	4.38E-04	1.28E-02	5.41E-02

2637	490460.04, 3858810.04	4.53E-02	1.57E-03	5.59E-03	8.50E-03	3.85E-04	1.25E-02	1.74E-05	0.07383515	2.40E-02	1.57E-03	5.59E-03	8.50E-03	3.85E-04	4.40E-04	1.25E-02	5.30E-02
2638	490510.04, 3858810.04	4.46E-02	1.52E-03	5.43E-03	8.39E-03	3.79E-04	1.22E-02	1.70E-05	0.07248252	2.36E-02	1.52E-03	5.43E-03	8.39E-03	3.79E-04	4.41E-04	1.22E-02	5.19E-02
2639	490560.04, 3858810.04	4.39E-02	1.48E-03	5.26E-03	8.28E-03	3.73E-04	1.19E-02	1.66E-05	0.07117156	2.32E-02	1.48E-03	5.26E-03	8.28E-03	3.73E-04	4.42E-04	1.19E-02	5.09E-02
2640	490610.04, 3858810.04	4.33E-02	1.43E-03	5.04E-03	8.17E-03	3.66E-04	1.15E-02	1.61E-05	0.06983217	2.29E-02	1.43E-03	5.04E-03	8.17E-03	3.66E-04	4.43E-04	1.15E-02	4.98E-02
2641	490660.04, 3858810.04	4.26E-02	1.39E-03	4.88E-03	8.02E-03	3.61E-04	1.13E-02	1.56E-05	0.06856013	2.25E-02	1.39E-03	4.88E-03	8.02E-03	3.61E-04	4.44E-04	1.13E-02	4.88E-02
2642	490710.04, 3858810.04	4.21E-02	1.34E-03	4.70E-03	7.90E-03	3.55E-04	1.10E-02	1.52E-05	0.06734444	2.22E-02	1.34E-03	4.70E-03	7.90E-03	3.55E-04	4.44E-04	1.10E-02	4.79E-02
2643	490760.04, 3858810.04	4.16E-02	1.30E-03	4.49E-03	7.77E-03	3.49E-04	1.06E-02	1.46E-05	0.0660831	2.18E-02	1.30E-03	4.49E-03	7.77E-03	3.49E-04	4.44E-04	1.06E-02	4.68E-02
2644	490810.04, 3858810.04	4.10E-02	1.27E-03	4.40E-03	7.68E-03	3.44E-04	1.04E-02	1.42E-05	0.0650848	2.15E-02	1.27E-03	4.40E-03	7.68E-03	3.44E-04	4.43E-04	1.04E-02	4.61E-02
2645	490860.04, 3858810.04	4.05E-02	1.23E-03	4.24E-03	7.56E-03	3.39E-04	1.01E-02	1.37E-05	0.06398311	2.12E-02	1.23E-03	4.24E-03	7.56E-03	3.39E-04	4.43E-04	1.01E-02	4.52E-02
2646	490360.04, 3858860.04	4.74E-02	1.74E-03	6.65E-03	8.39E-03	3.82E-04	1.33E-02	1.73E-05	0.07791827	2.53E-02	1.74E-03	6.65E-03	8.39E-03	3.82E-04	4.19E-04	1.33E-02	5.62E-02
2647	490410.04, 3858860.04	4.66E-02	1.69E-03	6.47E-03	8.29E-03	3.76E-04	1.30E-02	1.69E-05	0.0764441	2.48E-02	1.69E-03	6.47E-03	8.29E-03	3.76E-04	4.21E-04	1.30E-02	5.51E-02
2648	490460.04, 3858860.04	4.58E-02	1.63E-03	6.18E-03	8.18E-03	3.70E-04	1.26E-02	1.64E-05	0.07481696	2.43E-02	1.63E-03	6.18E-03	8.18E-03	3.70E-04	4.23E-04	1.26E-02	5.38E-02
2649	490510.04, 3858860.04	4.50E-02	1.59E-03	6.02E-03	8.09E-03	3.64E-04	1.24E-02	1.60E-05	0.07346478	2.39E-02	1.59E-03	6.02E-03	8.09E-03	3.64E-04	4.25E-04	1.24E-02	5.28E-02
2650	490560.04, 3858860.04	4.43E-02	1.53E-03	5.78E-03	7.98E-03	3.59E-04	1.20E-02	1.55E-05	0.07201846	2.35E-02	1.53E-03	5.78E-03	7.98E-03	3.59E-04	4.26E-04	1.20E-02	5.16E-02
2651	490610.04, 3858860.04	4.37E-02	1.47E-03	5.48E-03	7.83E-03	3.52E-04	1.16E-02	1.49E-05	0.07045819	2.31E-02	1.47E-03	5.48E-03	7.83E-03	3.52E-04	4.28E-04	1.16E-02	5.03E-02
2652	490660.04, 3858860.04	4.31E-02	1.43E-03	5.28E-03	7.73E-03	3.47E-04	1.13E-02	1.45E-05	0.06916777	2.27E-02	1.43E-03	5.28E-03	7.73E-03	3.47E-04	4.29E-04	1.13E-02	4.93E-02
2653	490710.04, 3858860.04	4.24E-02	1.39E-03	5.14E-03	7.63E-03	3.42E-04	1.11E-02	1.41E-05	0.06797554	2.24E-02	1.39E-03	5.14E-03	7.63E-03	3.42E-04	4.29E-04	1.11E-02	4.84E-02
2654	490760.04, 3858860.04	4.18E-02	1.34E-03	4.90E-03	7.51E-03	3.36E-04	1.07E-02	1.36E-05	0.06666405	2.20E-02	1.34E-03	4.90E-03	7.51E-03	3.36E-04	4.30E-04	1.07E-02	4.73E-02
2655	490810.04, 3858860.04	4.13E-02	1.30E-03	4.69E-03	7.39E-03	3.31E-04	1.04E-02	1.31E-05	0.06543815	2.17E-02	1.30E-03	4.69E-03	7.39E-03	3.31E-04	4.30E-04	1.04E-02	4.63E-02
2656	490860.04, 3858860.04	4.08E-02	1.25E-03	4.48E-03	7.27E-03	3.25E-04	1.01E-02	1.25E-05	0.06423888	2.14E-02	1.25E-03	4.48E-03	7.27E-03	3.25E-04	4.29E-04	1.01E-02	4.53E-02
2657	490360.04, 3858910.04	4.80E-02	1.84E-03	7.52E-03	8.07E-03	3.66E-04	1.36E-02	1.65E-05	0.07947656	2.57E-02	1.84E-03	7.52E-03	8.07E-03	3.66E-04	4.02E-04	1.36E-02	5.75E-02
2658	490410.04, 3858910.04	4.71E-02	1.78E-03	7.22E-03	7.97E-03	3.61E-04	1.33E-02	1.60E-05	0.07775445	2.52E-02	1.78E-03	7.22E-03	7.97E-03	3.61E-04	4.04E-04	1.33E-02	5.62E-02
2659	490460.04, 3858910.04	4.63E-02	1.71E-03	6.91E-03	7.88E-03	3.55E-04	1.29E-02	1.55E-05	0.07607019	2.47E-02	1.71E-03	6.91E-03	7.88E-03	3.55E-04	4.06E-04	1.29E-02	5.48E-02
2660	490510.04, 3858910.04	4.55E-02	1.65E-03	6.59E-03	7.78E-03	3.50E-04	1.25E-02	1.50E-05	0.07442032	2.42E-02	1.65E-03	6.59E-03	7.78E-03	3.50E-04	4.09E-04	1.25E-02	5.35E-02
2661	490560.04, 3858910.04	4.48E-02	1.59E-03	6.27E-03	7.68E-03	3.44E-04	1.21E-02	1.45E-05	0.07282351	2.38E-02	1.59E-03	6.27E-03	7.68E-03	3.44E-04	4.11E-04	1.21E-02	5.22E-02
2662	490610.04, 3858910.04	4.42E-02	1.53E-03	5.97E-03	7.54E-03	3.38E-04	1.17E-02	1.40E-05	0.07123978	2.34E-02	1.53E-03	5.97E-03	7.54E-03	3.38E-04	4.12E-04	1.17E-02	5.09E-02
2663	490660.04, 3858910.04	4.35E-02	1.48E-03	5.73E-03	7.44E-03	3.33E-04	1.14E-02	1.35E-05	0.06984195	2.30E-02	1.48E-03	5.73E-03	7.44E-03	3.33E-04	4.14E-04	1.14E-02	4.98E-02
2664	490710.04, 3858910.04	4.28E-02	1.42E-03	5.47E-03	7.33E-03	3.28E-04	1.10E-02	1.31E-05	0.06844206	2.26E-02	1.42E-03	5.47E-03	7.33E-03	3.28E-04	4.15E-04	1.10E-02	4.86E-02
2665	490760.04, 3858910.04	4.23E-02	1.37E-03	5.18E-03	7.21E-03	3.22E-04	1.07E-02	1.25E-05	0.0670364	2.23E-02	1.37E-03	5.18E-03	7.21E-03	3.22E-04	4.15E-04	1.07E-02	4.74E-02
2666	490810.04, 3858910.04	4.17E-02	1.33E-03	4.99E-03	7.11E-03	3.18E-04	1.04E-02	1.21E-05	0.06582709	2.20E-02	1.33E-03	4.99E-03	7.11E-03	3.18E-04	4.16E-04	1.04E-02	4.65E-02
2667	490860.04, 3858910.04	4.12E-02	1.28E-03	4.74E-03	6.98E-03	3.12E-04	1.00E-02	1.15E-05	0.06453137	2.16E-02	1.28E-03	4.74E-03	6.98E-03	3.12E-04	4.15E-04	1.00E-02	4.54E-02
2668	490360.04, 3858960.04	4.88E-02	1.93E-03	8.34E-03	7.74E-03	3.50E-04	1.38E-02	1.56E-05	0.08098417	2.62E-02	1.93E-03	8.34E-03	7.74E-03	3.50E-04	3.85E-04	1.38E-02	5.87E-02
2669	490410.04, 3858960.04	4.79E-02	1.85E-03	7.93E-03	7.65E-03	3.45E-04	1.34E-02	1.51E-05	0.07903494	2.56E-02	1.85E-03	7.93E-03	7.65E-03	3.45E-04	3.88E-04	1.34E-02	5.72E-02
2670	490460.04, 3858960.04	4.70E-02	1.78E-03	7.51E-03	7.56E-03	3.39E-04	1.29E-02	1.45E-05	0.07713272	2.51E-02	1.78E-03	7.51E-03	7.56E-03	3.39E-04	3.91E-04	1.29E-02	5.56E-02
2671	490510.04, 3858960.04	4.62E-02	1.71E-03	7.15E-03	7.47E-03	3.34E-04	1.25E-02	1.41E-05	0.07538321	2.46E-02	1.71E-03	7.15E-03	7.47E-03	3.34E-04	3.93E-04	1.25E-02	5.42E-02
2672	490560.04, 3858960.04	4.54E-02	1.64E-03	6.81E-03	7.35E-03	3.29E-04	1.22E-02	1.36E-05	0.07368889	2.41E-02	1.64E-03	6.81E-03	7.35E-03	3.29E-04	3.95E-04	1.22E-02	5.28E-02
2673	490610.04, 3858960.04	4.47E-02	1.57E-03	6.41E-03	7.24E-03	3.24E-04	1.17E-02	1.30E-05	0.07195519	2.37E-02	1.57E-03	6.41E-03	7.24E-03	3.24E-04	3.97E-04	1.17E-02	5.14E-02
2674	490660.04, 3858960.04	4.39E-02	1.53E-03	6.21E-03	7.16E-03	3.20E-04	1.14E-02	1.27E-05	0.07060908	2.33E-02	1.53E-03	6.21E-03	7.16E-03	3.20E-04	3.99E-04	1.14E-02	5.04E-02
2675	490710.04, 3858960.04	4.33E-02	1.46E-03	5.85E-03	7.05E-03	3.15E-04	1.10E-02	1.21E-05	0.06903481	2.29E-02	1.46E-03	5.85E-03	7.05E-03	3.15E-04	4.00E-04	1.10E-02	4.90E-02
2676	490760.04, 3858960.04	4.27E-02	1.41E-03	5.56E-03	6.94E-03	3.10E-04	1.07E-02	1.16E-05	0.06760493	2.25E-02	1.41E-03	5.56E-03	6.94E-03	3.10E-04	4.01E-04	1.07E-02	4.78E-02
2677	490810.04, 3858960.04	4.21E-02	1.36E-03	5.29E-03	6.83E-03	3.05E-04	1.03E-02	1.11E-05	0.0662375	2.22E-02	1.36E-03	5.29E-03	6.83E-03	3.05E-04	4.01E-04	1.03E-02	4.67E-02
2678	490860.04, 3858960.04	4.16E-02	1.30E-03	4.99E-03	6.70E-03	2.99E-04	9.93E-03	1.06E-05	0.06487282	2.19E-02	1.30E-03	4.99E-03	6.70E-03	2.99E-04	4.02E-04	9.93E-03	4.55E-02
2679	490360.04, 3859010.04	4.97E-02	2.04E-03	9.22E-03	7.42E-03	3.34E-04	1.39E-02	1.48E-05	0.08265734	2.67E-02	2.04E-03	9.22E-03	7.42E-03	3.34E-04	3.70E-04	1.39E-02	6.00E-02
2680	490410.04, 3859010.04	4.87E-02	1.94E-03	8.69E-03	7.34E-03	3.29E-04	1.35E-02	1.42E-05	0.08046058	2.61E-02	1.94E-03	8.69E-03	7.34E-03	3.29E-04	3.73E-04	1.35E-02	5.83E-02
2681	490460.04, 3859010.04	4.78E-02	1.85E-03	8.12E-03	7.25E-03	3.24E-04	1.29E-02	1.36E-05	0.078265	2.56E-02	1.85E-03	8.12E-03	7.25E-03	3.24E-04	3.76E-04	1.29E-02	5.64E-02
2682	490510.04, 3859010.04	4.69E-02	1.76E-03	7.60E-03	7.12E-03	3.18E-04	1.24E-02	1.31E-05	0.07617967	2.50E-02	1.76E-03	7.60E-03	7.12E-03	3.18E-04	3.78E-04	1.24E-02	5.46E-02
2683	490560.04, 3859010.04	4.61E-02	1.70E-03	7.29E-03	7.05E-03	3.14E-04	1.21E-02	1.27E-05	0.07454645	2.45E-02	1.70E-03	7.29E-03	7.05E-03	3.14E-04	3.80E-04	1.21E-02	5.34E-02
2684	490610.04, 3859010.04	4.53E-02	1.62E-03	6.85E-03	6.94E-03	3.09E-04	1.17E-02	1.21E-05	0.07271629	2.41E-02	1.62E-03	6.85E-03	6.94E-03	3.09E-04	3.82E-04	1.17E-02	5.19E-02
2685	490660.04, 3859010.04	4.45E-02	1.58E-03	6.63E-03	6.87E-03	3.06E-04	1.14E-02	1.18E-05	0.07131722	2.36E-02	1.58E-03	6.63E-03	6.87E-03	3.06E-04	3.84E-04	1.14E-02	5.08E-02
2686	490710.04, 3859010.04	4.39E-02	1.51E-03	6.22E-03	6.76E-03	3.01E-04	1.10E-02	1.13E-05	0.06962921	2.32E-02	1.51E-03	6.22E-03	6.76E-03	3.01E-04	3.86E-04	1.10E-02	4.94E-02
2687	490760.04, 3859010.04	4.32E-02	1.45E-03	5.88E-03	6.65E-03	2.96E-04	1.06E-02	1.08E-05	0.06810081	2.28E-02	1.45E-03	5.88E-03	6.65E-03	2.96E-04	3.87E-04	1.06E-02	4.81E-02
2688	490810.04, 3859010.04	4.26E-02	1.39E-03	5.56E-03	6.54E-03	2.91E-04	1.02E-02	1.03E-05	0.06663813	2.25E-02	1.39E-03	5.56E-03	6.54E-03	2.91E-04	3.87E-04	1.02E-02	4.69E-02
2689	490860.04, 3859010.04	4.21E-02	1.34E-03	5.29E-03	6.43E-03	2.87E-04	9.87E-03	9.82E-06	0.06530006	2.21E-02	1.34E-03	5.29E-03	6.43E-03	2.87E-04	3.88E-04	9.87E-03	4.57E-02
2690	490360.04, 3859060.04	5.07E-02	2.15E-03	1.01E-02	7.12E-03	3.18E-04	1.40E-02	1.40E-05	0.08443829	2.74E-02	2.15E-03	1.01E-02	7.12E-03	3.18E-04	3.56E-04	1.40E-02	6.14E-02

2691	490410.04, 3859060.04	4.97E-02	2.03E-03	9.35E-03	7.03E-03	3.13E-04	1.34E-02	1.33E-05	0.08177797	2.67E-02	2.03E-03	9.35E-03	7.03E-03	3.13E-04	3.59E-04	1.34E-02	5.92E-02
2692	490460.04, 3859060.04	4.87E-02	1.93E-03	8.74E-03	6.95E-03	3.08E-04	1.29E-02	1.28E-05	0.07948633	2.61E-02	1.93E-03	8.74E-03	6.95E-03	3.08E-04	3.61E-04	1.29E-02	5.73E-02
2693	490510.04, 3859060.04	4.77E-02	1.84E-03	8.23E-03	6.83E-03	3.04E-04	1.24E-02	1.23E-05	0.07738368	2.55E-02	1.84E-03	8.23E-03	6.83E-03	3.04E-04	3.64E-04	1.24E-02	5.55E-02
2694	490560.04, 3859060.04	4.69E-02	1.75E-03	7.69E-03	6.73E-03	2.99E-04	1.20E-02	1.17E-05	0.07529795	2.50E-02	1.75E-03	7.69E-03	6.73E-03	2.99E-04	3.66E-04	1.20E-02	5.38E-02
2695	490610.04, 3859060.04	4.60E-02	1.68E-03	7.32E-03	6.66E-03	2.95E-04	1.16E-02	1.13E-05	0.07358333	2.45E-02	1.68E-03	7.32E-03	6.66E-03	2.95E-04	3.68E-04	1.16E-02	5.24E-02
2696	490660.04, 3859060.04	4.52E-02	1.62E-03	7.00E-03	6.58E-03	2.92E-04	1.13E-02	1.10E-05	0.071986	2.40E-02	1.62E-03	7.00E-03	6.58E-03	2.92E-04	3.69E-04	1.13E-02	5.12E-02
2697	490710.04, 3859060.04	4.45E-02	1.55E-03	6.55E-03	6.47E-03	2.87E-04	1.09E-02	1.04E-05	0.07020327	2.36E-02	1.55E-03	6.55E-03	6.47E-03	2.87E-04	3.71E-04	1.09E-02	4.97E-02
2698	490760.04, 3859060.04	4.38E-02	1.48E-03	6.17E-03	6.37E-03	2.83E-04	1.05E-02	9.93E-06	0.0686048	2.32E-02	1.48E-03	6.17E-03	6.37E-03	2.83E-04	3.72E-04	1.05E-02	4.83E-02
2699	490810.04, 3859060.04	4.32E-02	1.42E-03	5.82E-03	6.25E-03	2.78E-04	1.01E-02	9.44E-06	0.06707118	2.28E-02	1.42E-03	5.82E-03	6.25E-03	2.78E-04	3.73E-04	1.01E-02	4.70E-02
2700	490860.04, 3859060.04	4.26E-02	1.36E-03	5.52E-03	6.15E-03	2.74E-04	9.73E-03	9.01E-06	0.06565967	2.24E-02	1.36E-03	5.52E-03	6.15E-03	2.74E-04	3.73E-04	9.73E-03	4.58E-02
2701	490360.04, 3859110.04	5.18E-02	2.29E-03	1.12E-02	6.82E-03	3.02E-04	1.41E-02	1.32E-05	0.08665498	2.81E-02	2.29E-03	1.12E-02	6.82E-03	3.02E-04	3.42E-04	1.41E-02	6.32E-02
2702	490410.04, 3859110.04	5.07E-02	2.15E-03	1.03E-02	6.75E-03	2.98E-04	1.35E-02	1.26E-05	0.0837195	2.74E-02	2.15E-03	1.03E-02	6.75E-03	2.98E-04	3.45E-04	1.35E-02	6.07E-02
2703	490460.04, 3859110.04	4.96E-02	2.05E-03	9.68E-03	6.68E-03	2.94E-04	1.30E-02	1.22E-05	0.08132754	2.67E-02	2.05E-03	9.68E-03	6.68E-03	2.94E-04	3.47E-04	1.30E-02	5.88E-02
2704	490510.04, 3859110.04	4.87E-02	1.91E-03	8.78E-03	6.54E-03	2.89E-04	1.24E-02	1.15E-05	0.07853617	2.61E-02	1.91E-03	8.78E-03	6.54E-03	2.89E-04	3.49E-04	1.24E-02	5.63E-02
2705	490560.04, 3859110.04	4.77E-02	1.82E-03	8.23E-03	6.45E-03	2.85E-04	1.19E-02	1.10E-05	0.07640334	2.55E-02	1.82E-03	8.23E-03	6.45E-03	2.85E-04	3.52E-04	1.19E-02	5.45E-02
2706	490610.04, 3859110.04	4.68E-02	1.73E-03	7.68E-03	6.36E-03	2.81E-04	1.14E-02	1.05E-05	0.0743404	2.49E-02	1.73E-03	7.68E-03	6.36E-03	2.81E-04	3.53E-04	1.14E-02	5.28E-02
2707	490660.04, 3859110.04	4.61E-02	1.65E-03	7.15E-03	6.25E-03	2.76E-04	1.10E-02	9.91E-06	0.07234727	2.45E-02	1.65E-03	7.15E-03	6.25E-03	2.76E-04	3.55E-04	1.10E-02	5.11E-02
2708	490710.04, 3859110.04	4.53E-02	1.59E-03	6.82E-03	6.17E-03	2.73E-04	1.07E-02	9.55E-06	0.07076537	2.40E-02	1.59E-03	6.82E-03	6.17E-03	2.73E-04	3.57E-04	1.07E-02	4.99E-02
2709	490760.04, 3859110.04	4.45E-02	1.52E-03	6.44E-03	6.08E-03	2.69E-04	1.03E-02	9.12E-06	0.06913778	2.36E-02	1.52E-03	6.44E-03	6.08E-03	2.69E-04	3.58E-04	1.03E-02	4.85E-02
2710	490810.04, 3859110.04	4.39E-02	1.45E-03	6.04E-03	5.96E-03	2.65E-04	9.87E-03	8.63E-06	0.06750041	2.32E-02	1.45E-03	6.04E-03	5.96E-03	2.65E-04	3.58E-04	9.87E-03	4.71E-02
2711	490860.04, 3859110.04	4.33E-02	1.39E-03	5.69E-03	5.84E-03	2.60E-04	9.49E-03	8.17E-06	0.06598383	2.28E-02	1.39E-03	5.69E-03	5.84E-03	2.60E-04	3.59E-04	9.49E-03	4.58E-02
2712	490360.04, 3859160.04	5.32E-02	2.47E-03	1.26E-02	6.54E-03	2.87E-04	1.43E-02	1.26E-05	0.08935617	2.89E-02	2.47E-03	1.26E-02	6.54E-03	2.87E-04	3.29E-04	1.43E-02	6.54E-02
2713	490410.04, 3859160.04	5.19E-02	2.31E-03	1.15E-02	6.48E-03	2.84E-04	1.37E-02	1.20E-05	0.08616235	2.81E-02	2.31E-03	1.15E-02	6.48E-03	2.84E-04	3.31E-04	1.37E-02	6.27E-02
2714	490460.04, 3859160.04	5.07E-02	2.18E-03	1.06E-02	6.41E-03	2.80E-04	1.31E-02	1.15E-05	0.08328684	2.74E-02	2.18E-03	1.06E-02	6.41E-03	2.80E-04	3.33E-04	1.31E-02	6.03E-02
2715	490510.04, 3859160.04	4.96E-02	2.05E-03	9.79E-03	6.30E-03	2.76E-04	1.26E-02	1.10E-05	0.08056169	2.67E-02	2.05E-03	9.79E-03	6.30E-03	2.76E-04	3.36E-04	1.26E-02	5.80E-02
2716	490560.04, 3859160.04	4.86E-02	1.93E-03	8.93E-03	6.20E-03	2.72E-04	1.19E-02	1.04E-05	0.07789862	2.61E-02	1.93E-03	8.93E-03	6.20E-03	2.72E-04	3.38E-04	1.19E-02	5.57E-02
2717	490610.04, 3859160.04	4.76E-02	1.83E-03	8.38E-03	6.12E-03	2.68E-04	1.15E-02	9.91E-06	0.0757738	2.55E-02	1.83E-03	8.38E-03	6.12E-03	2.68E-04	3.40E-04	1.15E-02	5.39E-02
2718	490660.04, 3859160.04	4.69E-02	1.70E-03	7.51E-03	5.97E-03	2.62E-04	1.08E-02	9.13E-06	0.07319696	2.50E-02	1.70E-03	7.51E-03	5.97E-03	2.62E-04	3.41E-04	1.08E-02	5.16E-02
2719	490710.04, 3859160.04	4.61E-02	1.64E-03	7.12E-03	5.89E-03	2.59E-04	1.05E-02	8.77E-06	0.07146854	2.45E-02	1.64E-03	7.12E-03	5.89E-03	2.59E-04	3.43E-04	1.05E-02	5.02E-02
2720	490760.04, 3859160.04	4.54E-02	1.55E-03	6.58E-03	5.76E-03	2.54E-04	9.96E-03	8.20E-06	0.06954046	2.40E-02	1.55E-03	6.58E-03	5.76E-03	2.54E-04	3.43E-04	9.96E-03	4.85E-02
2721	490810.04, 3859160.04	4.47E-02	1.49E-03	6.27E-03	5.67E-03	2.51E-04	9.65E-03	7.86E-06	0.06800942	2.36E-02	1.49E-03	6.27E-03	5.67E-03	2.51E-04	3.44E-04	9.65E-03	4.73E-02
2722	490860.04, 3859160.04	4.40E-02	1.43E-03	5.95E-03	5.58E-03	2.48E-04	9.33E-03	7.52E-06	0.06652977	2.32E-02	1.43E-03	5.95E-03	5.58E-03	2.48E-04	3.44E-04	9.33E-03	4.61E-02
2723	490360.04, 3859210.04	5.48E-02	2.68E-03	1.40E-02	6.28E-03	2.73E-04	1.45E-02	1.20E-05	0.09254127	3.00E-02	2.68E-03	1.40E-02	6.28E-03	2.73E-04	3.17E-04	1.45E-02	6.80E-02
2724	490410.04, 3859210.04	5.33E-02	2.54E-03	1.32E-02	6.23E-03	2.71E-04	1.40E-02	1.16E-05	0.08948535	2.91E-02	2.54E-03	1.32E-02	6.23E-03	2.71E-04	3.18E-04	1.40E-02	6.56E-02
2725	490460.04, 3859210.04	5.20E-02	2.34E-03	1.17E-02	6.16E-03	2.67E-04	1.32E-02	1.09E-05	0.08561847	2.82E-02	2.34E-03	1.17E-02	6.16E-03	2.67E-04	3.21E-04	1.32E-02	6.21E-02
2726	490510.04, 3859210.04	5.08E-02	2.19E-03	1.07E-02	6.05E-03	2.63E-04	1.26E-02	1.04E-05	0.08256961	2.74E-02	2.19E-03	1.07E-02	6.05E-03	2.63E-04	3.23E-04	1.26E-02	5.95E-02
2727	490560.04, 3859210.04	4.96E-02	2.08E-03	9.99E-03	5.99E-03	2.61E-04	1.22E-02	9.94E-06	0.08007436	2.67E-02	2.08E-03	9.99E-03	5.99E-03	2.61E-04	3.25E-04	1.22E-02	5.75E-02
2728	490610.04, 3859210.04	4.86E-02	1.96E-03	9.19E-03	5.90E-03	2.57E-04	1.16E-02	9.43E-06	0.07751841	2.61E-02	1.96E-03	9.19E-03	5.90E-03	2.57E-04	3.27E-04	1.16E-02	5.53E-02
2729	490660.04, 3859210.04	4.77E-02	1.82E-03	8.24E-03	5.77E-03	2.52E-04	1.09E-02	8.74E-06	0.07476256	2.55E-02	1.82E-03	8.24E-03	5.77E-03	2.52E-04	3.28E-04	1.09E-02	5.28E-02
2730	490710.04, 3859210.04	4.68E-02	1.72E-03	7.67E-03	5.69E-03	2.48E-04	1.05E-02	8.33E-06	0.07265688	2.49E-02	1.72E-03	7.67E-03	5.69E-03	2.48E-04	3.30E-04	1.05E-02	5.11E-02
2731	490760.04, 3859210.04	4.62E-02	1.63E-03	7.10E-03	5.55E-03	2.44E-04	9.98E-03	7.76E-06	0.07067182	2.45E-02	1.63E-03	7.10E-03	5.55E-03	2.44E-04	3.30E-04	9.98E-03	4.93E-02
2732	490810.04, 3859210.04	4.52E-02	1.59E-03	6.90E-03	5.51E-03	2.43E-04	9.81E-03	7.61E-06	0.0692968	2.40E-02	1.59E-03	6.90E-03	5.51E-03	2.43E-04	3.31E-04	9.81E-03	4.84E-02
2733	490860.04, 3859210.04	4.44E-02	1.54E-03	6.69E-03	5.47E-03	2.41E-04	9.62E-03	7.45E-06	0.06795391	2.35E-02	1.54E-03	6.69E-03	5.47E-03	2.41E-04	3.33E-04	9.62E-03	4.74E-02
2734	490360.04, 3859260.04	5.68E-02	2.92E-03	1.56E-02	6.01E-03	2.59E-04	1.45E-02	1.14E-05	0.0961102	3.13E-02	2.92E-03	1.56E-02	6.01E-03	2.59E-04	3.06E-04	1.45E-02	7.09E-02
2735	490410.04, 3859260.04	5.51E-02	2.74E-03	1.44E-02	5.97E-03	2.57E-04	1.40E-02	1.09E-05	0.09243407	3.02E-02	2.74E-03	1.44E-02	5.97E-03	2.57E-04	3.08E-04	1.40E-02	6.78E-02
2736	490460.04, 3859260.04	5.35E-02	2.59E-03	1.34E-02	5.94E-03	2.55E-04	1.35E-02	1.05E-05	0.08924918	2.92E-02	2.59E-03	1.34E-02	5.94E-03	2.55E-04	3.09E-04	1.35E-02	6.53E-02
2737	490510.04, 3859260.04	5.20E-02	2.44E-03	1.25E-02	5.89E-03	2.53E-04	1.31E-02	1.02E-05	0.08622186	2.83E-02	2.44E-03	1.25E-02	5.89E-03	2.53E-04	3.10E-04	1.31E-02	6.29E-02
2738	490560.04, 3859260.04	5.08E-02	2.29E-03	1.15E-02	5.80E-03	2.51E-04	1.25E-02	9.68E-06	0.08311525	2.75E-02	2.29E-03	1.15E-02	5.80E-03	2.51E-04	3.12E-04	1.25E-02	6.02E-02
2739	490610.04, 3859260.04	4.97E-02	2.12E-03	1.03E-02	5.70E-03	2.47E-04	1.18E-02	9.06E-06	0.07982008	2.68E-02	2.12E-03	1.03E-02	5.70E-03	2.47E-04	3.14E-04	1.18E-02	5.73E-02
2740	490660.04, 3859260.04	4.85E-02	2.04E-03	9.83E-03	5.67E-03	2.45E-04	1.16E-02	8.83E-06	0.07783208	2.61E-02	2.04E-03	9.83E-03	5.67E-03	2.45E-04	3.16E-04	1.16E-02	5.58E-02
2741	490710.04, 3859260.04	4.74E-02	1.93E-03	9.13E-03	5.60E-03	2.43E-04	1.12E-02	8.47E-06	0.07547523	2.55E-02	1.93E-03	9.13E-03	5.60E-03	2.43E-04	3.17E-04	1.12E-02	5.38E-02
2742	490760.04, 3859260.04	4.66E-02	1.81E-03	8.33E-03	5.48E-03	2.38E-04	1.05E-02	7.89E-06	0.07305364	2.49E-02	1.81E-03	8.33E-03	5.48E-03	2.38E-04	3.19E-04	1.05E-02	5.17E-02
2743	490810.04, 3859260.04	4.57E-02	1.75E-03	7.99E-03	5.44E-03	2.37E-04	1.03E-02	7.67E-06	0.0713957	2.44E-02	1.75E-03	7.99E-03	5.44E-03	2.37E-04	3.20E-04	1.03E-02	5.04E-02
2744	490860.04, 3859260.04	4.48E-02	1.69E-03	7.67E-03	5.39E-03	2.35E-04	1.00E-02	7.46E-06	0.06982123	2.39E-02	1.69E-03	7.67E-03	5.39E-03	2.35E-04	3.22E-04	1.00E-02	4.92E-02

2745	490360.04, 3859310.04	5.94E-02	3.28E-03	1.79E-02	5.77E-03	2.47E-04	1.48E-02	1.09E-05	0.10132265	3.29E-02	3.28E-03	1.79E-02	5.77E-03	2.47E-04	2.96E-04	1.48E-02	7.52E-02
2746	490410.04, 3859310.04	5.73E-02	3.05E-03	1.64E-02	5.74E-03	2.46E-04	1.42E-02	1.05E-05	0.0969964	3.16E-02	3.05E-03	1.64E-02	5.74E-03	2.46E-04	2.97E-04	1.42E-02	7.16E-02
2747	490460.04, 3859310.04	5.54E-02	2.86E-03	1.52E-02	5.71E-03	2.44E-04	1.38E-02	1.01E-05	0.09320757	3.05E-02	2.86E-03	1.52E-02	5.71E-03	2.44E-04	2.98E-04	1.38E-02	6.86E-02
2748	490510.04, 3859310.04	5.37E-02	2.71E-03	1.43E-02	5.68E-03	2.43E-04	1.34E-02	9.75E-06	0.08999596	2.95E-02	2.71E-03	1.43E-02	5.68E-03	2.43E-04	2.99E-04	1.34E-02	6.60E-02
2749	490560.04, 3859310.04	5.22E-02	2.56E-03	1.33E-02	5.64E-03	2.41E-04	1.29E-02	9.42E-06	0.08690679	2.86E-02	2.56E-03	1.33E-02	5.64E-03	2.41E-04	3.01E-04	1.29E-02	6.36E-02
2750	490610.04, 3859310.04	5.08E-02	2.43E-03	1.26E-02	5.61E-03	2.39E-04	1.26E-02	9.12E-06	0.08418929	2.77E-02	2.43E-03	1.26E-02	5.61E-03	2.39E-04	3.02E-04	1.26E-02	6.14E-02
2751	490660.04, 3859310.04	4.95E-02	2.30E-03	1.17E-02	5.53E-03	2.38E-04	1.21E-02	8.78E-06	0.08139162	2.69E-02	2.30E-03	1.17E-02	5.53E-03	2.38E-04	3.04E-04	1.21E-02	5.91E-02
2752	490710.04, 3859310.04	4.84E-02	2.13E-03	1.04E-02	5.44E-03	2.34E-04	1.15E-02	8.25E-06	0.07815647	2.62E-02	2.13E-03	1.04E-02	5.44E-03	2.34E-04	3.06E-04	1.15E-02	5.62E-02
2753	490760.04, 3859310.04	4.74E-02	2.02E-03	9.73E-03	5.38E-03	2.32E-04	1.10E-02	7.89E-06	0.07578559	2.56E-02	2.02E-03	9.73E-03	5.38E-03	2.32E-04	3.07E-04	1.10E-02	5.43E-02
2754	490810.04, 3859310.04	4.63E-02	1.93E-03	9.26E-03	5.33E-03	2.30E-04	1.07E-02	7.66E-06	0.07386988	2.49E-02	1.93E-03	9.26E-03	5.33E-03	2.30E-04	3.09E-04	1.07E-02	5.28E-02
2755	490860.04, 3859310.04	4.54E-02	1.84E-03	8.70E-03	5.27E-03	2.28E-04	1.04E-02	7.36E-06	0.07185058	2.44E-02	1.84E-03	8.70E-03	5.27E-03	2.28E-04	3.10E-04	1.04E-02	5.11E-02
2756	490360.04, 3859360.04	6.27E-02	3.75E-03	2.07E-02	5.53E-03	2.36E-04	1.51E-02	1.03E-05	0.10801915	3.51E-02	3.75E-03	2.07E-02	5.53E-03	2.36E-04	2.86E-04	1.51E-02	8.07E-02
2757	490410.04, 3859360.04	6.01E-02	3.49E-03	1.92E-02	5.51E-03	2.35E-04	1.46E-02	1.00E-05	0.10320677	3.36E-02	3.49E-03	1.92E-02	5.51E-03	2.35E-04	2.87E-04	1.46E-02	7.69E-02
2758	490460.04, 3859360.04	5.78E-02	3.28E-03	1.80E-02	5.49E-03	2.34E-04	1.42E-02	9.71E-06	0.09899416	3.22E-02	3.28E-03	1.80E-02	5.49E-03	2.34E-04	2.87E-04	1.42E-02	7.36E-02
2759	490510.04, 3859360.04	5.58E-02	3.08E-03	1.68E-02	5.47E-03	2.33E-04	1.38E-02	9.41E-06	0.09514822	3.10E-02	3.08E-03	1.68E-02	5.47E-03	2.33E-04	2.88E-04	1.38E-02	7.06E-02
2760	490560.04, 3859360.04	5.40E-02	2.88E-03	1.54E-02	5.44E-03	2.31E-04	1.33E-02	9.08E-06	0.09127853	2.98E-02	2.88E-03	1.54E-02	5.44E-03	2.31E-04	2.90E-04	1.33E-02	6.74E-02
2761	490610.04, 3859360.04	5.24E-02	2.70E-03	1.43E-02	5.41E-03	2.30E-04	1.28E-02	8.75E-06	0.08780222	2.88E-02	2.70E-03	1.43E-02	5.41E-03	2.30E-04	2.91E-04	1.28E-02	6.45E-02
2762	490660.04, 3859360.04	5.09E-02	2.55E-03	1.33E-02	5.38E-03	2.28E-04	1.24E-02	8.46E-06	0.08478617	2.79E-02	2.55E-03	1.33E-02	5.38E-03	2.28E-04	2.93E-04	1.24E-02	6.21E-02
2763	490710.04, 3859360.04	4.96E-02	2.39E-03	1.22E-02	5.30E-03	2.26E-04	1.19E-02	8.10E-06	0.08162653	2.71E-02	2.39E-03	1.22E-02	5.30E-03	2.26E-04	2.94E-04	1.19E-02	5.94E-02
2764	490760.04, 3859360.04	4.84E-02	2.24E-03	1.12E-02	5.24E-03	2.24E-04	1.14E-02	7.73E-06	0.07869248	2.63E-02	2.24E-03	1.12E-02	5.24E-03	2.24E-04	2.96E-04	1.14E-02	5.69E-02
2765	490810.04, 3859360.04	4.72E-02	2.16E-03	1.07E-02	5.21E-03	2.23E-04	1.12E-02	7.57E-06	0.0767441	2.57E-02	2.16E-03	1.07E-02	5.21E-03	2.23E-04	2.97E-04	1.12E-02	5.54E-02
2766	490860.04, 3859360.04	4.62E-02	2.05E-03	1.01E-02	5.16E-03	2.22E-04	1.08E-02	7.31E-06	0.07457025	2.50E-02	2.05E-03	1.01E-02	5.16E-03	2.22E-04	2.99E-04	1.08E-02	5.37E-02
2767	490360.04, 3859410.04	6.72E-02	4.36E-03	2.43E-02	5.29E-03	2.25E-04	1.53E-02	9.80E-06	0.11675535	3.81E-02	4.36E-03	2.43E-02	5.29E-03	2.25E-04	2.77E-04	1.53E-02	8.79E-02
2768	490410.04, 3859410.04	6.38E-02	4.05E-03	2.26E-02	5.29E-03	2.24E-04	1.49E-02	9.53E-06	0.1108865	3.60E-02	4.05E-03	2.26E-02	5.29E-03	2.24E-04	2.77E-04	1.49E-02	8.34E-02
2769	490460.04, 3859410.04	6.10E-02	3.78E-03	2.10E-02	5.27E-03	2.23E-04	1.45E-02	9.25E-06	0.10573126	3.43E-02	3.78E-03	2.10E-02	5.27E-03	2.23E-04	2.78E-04	1.45E-02	7.93E-02
2770	490510.04, 3859410.04	5.85E-02	3.53E-03	1.95E-02	5.26E-03	2.23E-04	1.40E-02	8.98E-06	0.10111706	3.28E-02	3.53E-03	1.95E-02	5.26E-03	2.23E-04	2.79E-04	1.40E-02	7.57E-02
2771	490560.04, 3859410.04	5.63E-02	3.31E-03	1.82E-02	5.25E-03	2.22E-04	1.36E-02	8.72E-06	0.09696542	3.15E-02	3.31E-03	1.82E-02	5.25E-03	2.22E-04	2.80E-04	1.36E-02	7.24E-02
2772	490610.04, 3859410.04	5.44E-02	3.11E-03	1.69E-02	5.23E-03	2.21E-04	1.32E-02	8.46E-06	0.09316866	3.03E-02	3.11E-03	1.69E-02	5.23E-03	2.21E-04	2.81E-04	1.32E-02	6.93E-02
2773	490660.04, 3859410.04	5.27E-02	2.89E-03	1.54E-02	5.20E-03	2.19E-04	1.27E-02	8.16E-06	0.08911773	2.92E-02	2.89E-03	1.54E-02	5.20E-03	2.19E-04	2.82E-04	1.27E-02	6.59E-02
2774	490710.04, 3859410.04	5.12E-02	2.70E-03	1.42E-02	5.17E-03	2.18E-04	1.23E-02	7.88E-06	0.08566981	2.82E-02	2.70E-03	1.42E-02	5.17E-03	2.18E-04	2.84E-04	1.23E-02	6.30E-02
2775	490760.04, 3859410.04	4.98E-02	2.51E-03	1.29E-02	5.10E-03	2.16E-04	1.17E-02	7.54E-06	0.08220475	2.73E-02	2.51E-03	1.29E-02	5.10E-03	2.16E-04	2.85E-04	1.17E-02	6.00E-02
2776	490810.04, 3859410.04	4.85E-02	2.41E-03	1.23E-02	5.07E-03	2.16E-04	1.15E-02	7.36E-06	0.07997969	2.66E-02	2.41E-03	1.23E-02	5.07E-03	2.16E-04	2.86E-04	1.15E-02	5.83E-02
2777	490860.04, 3859410.04	4.72E-02	2.32E-03	1.19E-02	5.05E-03	2.15E-04	1.13E-02	7.24E-06	0.07801206	2.58E-02	2.32E-03	1.19E-02	5.05E-03	2.15E-04	2.88E-04	1.13E-02	5.69E-02
2778	490360.04, 3859460.04	7.36E-02	5.22E-03	2.92E-02	5.06E-03	2.15E-04	1.54E-02	9.27E-06	0.12878094	4.22E-02	5.22E-03	2.92E-02	5.06E-03	2.15E-04	2.69E-04	1.54E-02	9.76E-02
2779	490410.04, 3859460.04	6.91E-02	4.78E-03	2.66E-02	5.06E-03	2.14E-04	1.50E-02	9.00E-06	0.12080107	3.95E-02	4.78E-03	2.66E-02	5.06E-03	2.14E-04	2.69E-04	1.50E-02	9.14E-02
2780	490460.04, 3859460.04	6.55E-02	4.42E-03	2.46E-02	5.06E-03	2.14E-04	1.46E-02	8.76E-06	0.1144327	3.73E-02	4.42E-03	2.46E-02	5.06E-03	2.14E-04	2.69E-04	1.46E-02	8.65E-02
2781	490510.04, 3859460.04	6.24E-02	4.11E-03	2.28E-02	5.05E-03	2.13E-04	1.42E-02	8.52E-06	0.10880363	3.54E-02	4.11E-03	2.28E-02	5.05E-03	2.13E-04	2.70E-04	1.42E-02	8.21E-02
2782	490560.04, 3859460.04	5.97E-02	3.83E-03	2.13E-02	5.04E-03	2.12E-04	1.39E-02	8.29E-06	0.10388226	3.37E-02	3.83E-03	2.13E-02	5.04E-03	2.12E-04	2.71E-04	1.39E-02	7.82E-02
2783	490610.04, 3859460.04	5.73E-02	3.57E-03	1.97E-02	5.03E-03	2.12E-04	1.34E-02	8.06E-06	0.09922246	3.23E-02	3.57E-03	1.97E-02	5.03E-03	2.12E-04	2.71E-04	1.34E-02	7.44E-02
2784	490660.04, 3859460.04	5.52E-02	3.32E-03	1.81E-02	5.02E-03	2.11E-04	1.30E-02	7.83E-06	0.09487356	3.09E-02	3.32E-03	1.81E-02	5.02E-03	2.11E-04	2.73E-04	1.30E-02	7.09E-02
2785	490710.04, 3859460.04	5.33E-02	3.12E-03	1.68E-02	5.00E-03	2.10E-04	1.27E-02	7.62E-06	0.09112949	2.98E-02	3.12E-03	1.68E-02	5.00E-03	2.10E-04	2.73E-04	1.27E-02	6.79E-02
2786	490760.04, 3859460.04	5.16E-02	2.92E-03	1.56E-02	4.97E-03	2.09E-04	1.22E-02	7.39E-06	0.08761235	2.87E-02	2.92E-03	1.56E-02	4.97E-03	2.09E-04	2.75E-04	1.22E-02	6.50E-02
2787	490810.04, 3859460.04	5.01E-02	2.75E-03	1.45E-02	4.95E-03	2.08E-04	1.19E-02	7.18E-06	0.08437892	2.78E-02	2.75E-03	1.45E-02	4.95E-03	2.08E-04	2.76E-04	1.19E-02	6.23E-02
2788	490860.04, 3859460.04	4.87E-02	2.63E-03	1.38E-02	4.93E-03	2.08E-04	1.16E-02	7.03E-06	0.08192334	2.69E-02	2.63E-03	1.38E-02	4.93E-03	2.08E-04	2.77E-04	1.16E-02	6.04E-02
2789	490360.04, 3859510.04	8.53E-02	6.53E-03	3.64E-02	4.84E-03	2.05E-04	1.55E-02	8.81E-06	0.14875294	4.95E-02	6.53E-03	3.64E-02	4.84E-03	2.05E-04	2.61E-04	1.55E-02	1.13E-01
2790	490410.04, 3859510.04	7.85E-02	5.91E-03	3.29E-02	4.84E-03	2.05E-04	1.52E-02	8.53E-06	0.1374599	4.54E-02	5.91E-03	3.29E-02	4.84E-03	2.05E-04	2.61E-04	1.52E-02	1.05E-01
2791	490460.04, 3859510.04	7.30E-02	5.37E-03	2.97E-02	4.85E-03	2.04E-04	1.48E-02	8.29E-06	0.12793567	4.21E-02	5.37E-03	2.97E-02	4.85E-03	2.04E-04	2.61E-04	1.48E-02	9.73E-02
2792	490510.04, 3859510.04	6.85E-02	4.93E-03	2.73E-02	4.85E-03	2.04E-04	1.44E-02	8.07E-06	0.12023743	3.94E-02	4.93E-03	2.73E-02	4.85E-03	2.04E-04	2.62E-04	1.44E-02	9.13E-02
2793	490560.04, 3859510.04	6.48E-02	4.55E-03	2.53E-02	4.84E-03	2.03E-04	1.40E-02	7.87E-06	0.11365088	3.71E-02	4.55E-03	2.53E-02	4.84E-03	2.03E-04	2.62E-04	1.40E-02	8.62E-02
2794	490610.04, 3859510.04	6.16E-02	4.20E-03	2.33E-02	4.84E-03	2.03E-04	1.36E-02	7.67E-06	0.10770843	3.51E-02	4.20E-03	2.33E-02	4.84E-03	2.03E-04	2.63E-04	1.36E-02	8.15E-02
2795	490660.04, 3859510.04	5.88E-02	3.90E-03	2.15E-02	4.83E-03	2.02E-04	1.32E-02	7.47E-06	0.10245846	3.34E-02	3.90E-03	2.15E-02	4.83E-03	2.02E-04	2.64E-04	1.32E-02	7.73E-02
2796	490710.04, 3859510.04	5.64E-02	3.62E-03	1.98E-02	4.82E-03	2.02E-04	1.29E-02	7.28E-06	0.09768221	3.19E-02	3.62E-03	1.98E-02	4.82E-03	2.02E-04	2.65E-04	1.29E-02	7.34E-02
2797	490760.04, 3859510.04	5.43E-02	3.38E-03	1.83E-02	4.81E-03	2.01E-04	1.25E-02	7.10E-06	0.09348257	3.06E-02	3.38E-03	1.83E-02	4.81E-03	2.01E-04	2.65E-04	1.25E-02	7.00E-02
2798	490810.04, 3859510.04	5.24E-02	3.18E-03	1.72E-02	4.79E-03	2.01E-04	1.22E-02	6.94E-06	0.08991825	2.94E-02	3.18E-03	1.72E-02	4.79E-03	2.01E-04	2.66E-04	1.22E-02	6.72E-02

2799	490860.04, 3859510.04	5.07E-02	2.99E-03	1.60E-02	4.77E-03	2.00E-04	1.18E-02	6.77E-06	0.08651745	2.83E-02	2.99E-03	1.60E-02	4.77E-03	2.00E-04	2.68E-04	1.18E-02	6.44E-02
2800	490360.04, 3859560.04	1.14E-01	8.69E-03	4.72E-02	4.62E-03	1.95E-04	1.56E-02	8.71E-06	0.18998147	6.59E-02	8.69E-03	4.72E-02	4.62E-03	1.95E-04	2.55E-04	1.56E-02	1.42E-01
2801	490410.04, 3859560.04	9.85E-02	7.71E-03	4.21E-02	4.63E-03	1.95E-04	1.52E-02	8.25E-06	0.16834832	5.73E-02	7.71E-03	4.21E-02	4.63E-03	1.95E-04	2.54E-04	1.52E-02	1.27E-01
2802	490460.04, 3859560.04	8.74E-02	6.88E-03	3.80E-02	4.64E-03	1.95E-04	1.49E-02	7.93E-06	0.15197348	5.09E-02	6.88E-03	3.80E-02	4.64E-03	1.95E-04	2.54E-04	1.49E-02	1.16E-01
2803	490510.04, 3859560.04	7.93E-02	6.14E-03	3.37E-02	4.65E-03	1.95E-04	1.45E-02	7.69E-06	0.13845014	4.61E-02	6.14E-03	3.37E-02	4.65E-03	1.95E-04	2.54E-04	1.45E-02	1.05E-01
2804	490560.04, 3859560.04	7.31E-02	5.59E-03	3.09E-02	4.65E-03	1.95E-04	1.41E-02	7.48E-06	0.12860519	4.24E-02	5.59E-03	3.09E-02	4.65E-03	1.95E-04	2.54E-04	1.41E-02	9.81E-02
2805	490610.04, 3859560.04	6.82E-02	5.10E-03	2.82E-02	4.65E-03	1.95E-04	1.38E-02	7.29E-06	0.12011338	3.94E-02	5.10E-03	2.82E-02	4.65E-03	1.95E-04	2.55E-04	1.38E-02	9.16E-02
2806	490660.04, 3859560.04	6.42E-02	4.68E-03	2.59E-02	4.65E-03	1.94E-04	1.34E-02	7.12E-06	0.1130141	3.70E-02	4.68E-03	2.59E-02	4.65E-03	1.94E-04	2.55E-04	1.34E-02	8.60E-02
2807	490710.04, 3859560.04	6.08E-02	4.31E-03	2.37E-02	4.64E-03	1.94E-04	1.30E-02	6.95E-06	0.10674643	3.49E-02	4.31E-03	2.37E-02	4.64E-03	1.94E-04	2.56E-04	1.30E-02	8.10E-02
2808	490760.04, 3859560.04	5.80E-02	3.95E-03	2.16E-02	4.64E-03	1.94E-04	1.26E-02	6.78E-06	0.10095244	3.30E-02	3.95E-03	2.16E-02	4.64E-03	1.94E-04	2.57E-04	1.26E-02	7.63E-02
2809	490810.04, 3859560.04	5.55E-02	3.67E-03	1.99E-02	4.62E-03	1.93E-04	1.23E-02	6.62E-06	0.09620715	3.15E-02	3.67E-03	1.99E-02	4.62E-03	1.93E-04	2.58E-04	1.23E-02	7.25E-02
2810	490860.04, 3859560.04	5.34E-02	3.42E-03	1.84E-02	4.61E-03	1.92E-04	1.19E-02	6.47E-06	0.09193211	3.01E-02	3.42E-03	1.84E-02	4.61E-03	1.92E-04	2.59E-04	1.19E-02	6.90E-02
2811	490187.25, 3859422.08	8.99E-02	6.24E-03	3.49E-02	5.23E-03	2.24E-04	1.69E-02	1.08E-05	0.15339618	5.14E-02	6.24E-03	3.49E-02	5.23E-03	2.24E-04	2.75E-04	1.69E-02	1.15E-01
2812	490237.25, 3859422.08	8.19E-02	5.64E-03	3.17E-02	5.24E-03	2.24E-04	1.64E-02	1.04E-05	0.14111939	4.68E-02	5.64E-03	3.17E-02	5.24E-03	2.24E-04	2.75E-04	1.64E-02	1.06E-01
2813	490287.25, 3859422.08	7.55E-02	5.14E-03	2.89E-02	5.24E-03	2.24E-04	1.60E-02	1.01E-05	0.13097655	4.30E-02	5.14E-03	2.89E-02	5.24E-03	2.24E-04	2.75E-04	1.60E-02	9.88E-02
2814	490337.25, 3859422.08	7.05E-02	4.70E-03	2.62E-02	5.24E-03	2.23E-04	1.55E-02	9.80E-06	0.12241338	4.01E-02	4.70E-03	2.62E-02	5.24E-03	2.23E-04	2.75E-04	1.55E-02	9.23E-02
2815	490187.25, 3859472.08	1.12E-01	7.87E-03	4.31E-02	4.98E-03	2.13E-04	1.69E-02	1.05E-05	0.1854573	6.43E-02	7.87E-03	4.31E-02	4.98E-03	2.13E-04	2.68E-04	1.69E-02	1.38E-01
2816	490237.25, 3859472.08	9.60E-02	7.01E-03	3.88E-02	4.99E-03	2.13E-04	1.65E-02	9.98E-06	0.16354113	5.53E-02	7.01E-03	3.88E-02	4.99E-03	2.13E-04	2.68E-04	1.65E-02	1.23E-01
2817	490287.25, 3859472.08	8.54E-02	6.29E-03	3.50E-02	5.00E-03	2.13E-04	1.60E-02	9.59E-06	0.14797636	4.92E-02	6.29E-03	3.50E-02	5.00E-03	2.13E-04	2.67E-04	1.60E-02	1.12E-01
2818	490337.25, 3859472.08	7.83E-02	5.72E-03	3.19E-02	5.01E-03	2.12E-04	1.56E-02	9.27E-06	0.13682049	4.51E-02	5.72E-03	3.19E-02	5.01E-03	2.12E-04	2.67E-04	1.56E-02	1.04E-01
2819	490297.07, 3859500.42	9.21E-02	7.08E-03	3.91E-02	4.87E-03	2.07E-04	1.60E-02	9.32E-06	0.15937813	5.35E-02	7.08E-03	3.91E-02	4.87E-03	2.07E-04	2.63E-04	1.60E-02	1.21E-01
2820	490327.07, 3859500.42	8.71E-02	6.67E-03	3.71E-02	4.88E-03	2.07E-04	1.58E-02	9.10E-06	0.15167027	5.05E-02	6.67E-03	3.71E-02	4.88E-03	2.07E-04	2.63E-04	1.58E-02	1.15E-01
2821	490297.07, 3859530.42	1.09E-01	8.43E-03	4.59E-02	4.73E-03	2.01E-04	1.60E-02	9.30E-06	0.18431781	6.33E-02	8.43E-03	4.59E-02	4.73E-03	2.01E-04	2.59E-04	1.60E-02	1.39E-01
2822	490327.07, 3859530.42	1.01E-01	7.84E-03	4.30E-02	4.74E-03	2.01E-04	1.58E-02	8.98E-06	0.17306366	5.89E-02	7.84E-03	4.30E-02	4.74E-03	2.01E-04	2.59E-04	1.58E-02	1.31E-01
2823	490319.73, 3859055.34	5.15E-02	2.24E-03	1.07E-02	7.20E-03	3.23E-04	1.45E-02	1.45E-05	0.08647356	2.79E-02	2.24E-03	1.07E-02	7.20E-03	3.23E-04	3.54E-04	1.45E-02	6.32E-02
2824	490319.73, 3859105.34	5.27E-02	2.39E-03	1.18E-02	6.90E-03	3.07E-04	1.46E-02	1.38E-05	0.08880455	2.86E-02	2.39E-03	1.18E-02	6.90E-03	3.07E-04	3.41E-04	1.46E-02	6.50E-02
2825	490069.73, 3859155.34	6.38E-02	3.40E-03	1.78E-02	6.81E-03	3.05E-04	1.72E-02	1.56E-05	0.1093504	3.52E-02	3.40E-03	1.78E-02	6.81E-03	3.05E-04	3.21E-04	1.72E-02	8.11E-02
2826	490119.73, 3859155.34	6.14E-02	3.21E-03	1.68E-02	6.77E-03	3.02E-04	1.68E-02	1.51E-05	0.10523839	3.38E-02	3.21E-03	1.68E-02	6.77E-03	3.02E-04	3.22E-04	1.68E-02	7.80E-02
2827	490269.73, 3859155.34	5.57E-02	2.74E-03	1.43E-02	6.66E-03	2.94E-04	1.54E-02	1.36E-05	0.09504752	3.05E-02	2.74E-03	1.43E-02	6.66E-03	2.94E-04	3.26E-04	1.54E-02	7.02E-02
2828	490319.73, 3859155.34	5.41E-02	2.58E-03	1.33E-02	6.61E-03	2.91E-04	1.48E-02	1.31E-05	0.09173479	2.96E-02	2.58E-03	1.33E-02	6.61E-03	2.91E-04	3.28E-04	1.48E-02	6.75E-02
2829	490069.73, 3859205.34	6.70E-02	3.83E-03	2.07E-02	6.48E-03	2.87E-04	1.75E-02	1.49E-05	0.11592728	3.74E-02	3.83E-03	2.07E-02	6.48E-03	2.87E-04	3.11E-04	1.75E-02	8.65E-02
2830	490119.73, 3859205.34	6.42E-02	3.62E-03	1.96E-02	6.45E-03	2.85E-04	1.71E-02	1.43E-05	0.11125552	3.57E-02	3.62E-03	1.96E-02	6.45E-03	2.85E-04	3.11E-04	1.71E-02	8.31E-02
2831	490169.73, 3859205.34	6.17E-02	3.40E-03	1.84E-02	6.42E-03	2.83E-04	1.67E-02	1.38E-05	0.10687148	3.42E-02	3.40E-03	1.84E-02	6.42E-03	2.83E-04	3.11E-04	1.67E-02	7.97E-02
2832	490219.73, 3859205.34	5.96E-02	3.18E-03	1.71E-02	6.40E-03	2.81E-04	1.61E-02	1.34E-05	0.10259022	3.29E-02	3.18E-03	1.71E-02	6.40E-03	2.81E-04	3.13E-04	1.61E-02	7.62E-02
2833	490269.73, 3859205.34	5.77E-02	2.97E-03	1.58E-02	6.37E-03	2.79E-04	1.54E-02	1.29E-05	0.09847663	3.17E-02	2.97E-03	1.58E-02	6.37E-03	2.79E-04	3.15E-04	1.54E-02	7.28E-02
2834	490319.73, 3859205.34	5.59E-02	2.80E-03	1.48E-02	6.33E-03	2.76E-04	1.49E-02	1.24E-05	0.09502906	3.07E-02	2.80E-03	1.48E-02	6.33E-03	2.76E-04	3.16E-04	1.49E-02	7.01E-02
2835	490069.73, 3859255.34	7.13E-02	4.36E-03	2.40E-02	6.17E-03	2.71E-04	1.77E-02	1.41E-05	0.12384761	4.01E-02	4.36E-03	2.40E-02	6.17E-03	2.71E-04	3.02E-04	1.77E-02	9.29E-02
2836	490119.73, 3859255.34	6.79E-02	4.07E-03	2.25E-02	6.15E-03	2.69E-04	1.73E-02	1.36E-05	0.1181029	3.81E-02	4.07E-03	2.25E-02	6.15E-03	2.69E-04	3.02E-04	1.73E-02	8.86E-02
2837	490169.73, 3859255.34	6.49E-02	3.81E-03	2.10E-02	6.13E-03	2.68E-04	1.68E-02	1.31E-05	0.11291295	3.63E-02	3.81E-03	2.10E-02	6.13E-03	2.68E-04	3.02E-04	1.68E-02	8.46E-02
2838	490219.73, 3859255.34	6.24E-02	3.54E-03	1.94E-02	6.11E-03	2.66E-04	1.62E-02	1.27E-05	0.10790991	3.47E-02	3.54E-03	1.94E-02	6.11E-03	2.66E-04	3.03E-04	1.62E-02	8.05E-02
2839	490269.73, 3859255.34	6.01E-02	3.30E-03	1.79E-02	6.09E-03	2.64E-04	1.56E-02	1.23E-05	0.10332195	3.33E-02	3.30E-03	1.79E-02	6.09E-03	2.64E-04	3.04E-04	1.56E-02	7.68E-02
2840	490319.73, 3859255.34	5.81E-02	3.09E-03	1.67E-02	6.07E-03	2.63E-04	1.51E-02	1.18E-05	0.09931841	3.21E-02	3.09E-03	1.67E-02	6.07E-03	2.63E-04	3.05E-04	1.51E-02	7.36E-02
2841	490069.73, 3859305.34	7.77E-02	5.07E-03	2.81E-02	5.88E-03	2.57E-04	1.78E-02	1.34E-05	0.13482523	4.41E-02	5.07E-03	2.81E-02	5.88E-03	2.57E-04	2.94E-04	1.78E-02	1.01E-01
2842	490119.73, 3859305.34	7.32E-02	4.68E-03	2.61E-02	5.86E-03	2.55E-04	1.74E-02	1.29E-05	0.12752078	4.14E-02	4.68E-03	2.61E-02	5.86E-03	2.55E-04	2.93E-04	1.74E-02	9.60E-02
2843	490169.73, 3859305.34	6.95E-02	4.34E-03	2.42E-02	5.85E-03	2.54E-04	1.69E-02	1.25E-05	0.12102003	3.91E-02	4.34E-03	2.42E-02	5.85E-03	2.54E-04	2.93E-04	1.69E-02	9.10E-02
2844	490219.73, 3859305.34	6.63E-02	4.01E-03	2.23E-02	5.84E-03	2.52E-04	1.64E-02	1.20E-05	0.11503924	3.72E-02	4.01E-03	2.23E-02	5.84E-03	2.52E-04	2.94E-04	1.64E-02	8.62E-02
2845	490269.73, 3859305.34	6.34E-02	3.72E-03	2.06E-02	5.83E-03	2.51E-04	1.58E-02	1.17E-05	0.10962975	3.54E-02	3.72E-03	2.06E-02	5.83E-03	2.51E-04	2.94E-04	1.58E-02	8.19E-02
2846	490319.73, 3859305.34	6.09E-02	3.45E-03	1.89E-02	5.81E-03	2.50E-04	1.53E-02	1.12E-05	0.10460859	3.39E-02	3.45E-03	1.89E-02	5.81E-03	2.50E-04	2.95E-04	1.53E-02	7.79E-02
2847	490069.73, 3859355.34	8.90E-02	6.08E-03	3.37E-02	5.59E-03	2.43E-04	1.79E-02	1.27E-05	0.15251239	5.07E-02	6.08E-03	3.37E-02	5.59E-03	2.43E-04	2.86E-04	1.79E-02	1.15E-01
2848	490119.73, 3859355.34	8.19E-02	5.53E-03	3.09E-02	5.58E-03	2.41E-04	1.75E-02	1.22E-05	0.14167486	4.66E-02	5.53E-03	3.09E-02	5.58E-03	2.41E-04	2.85E-04	1.75E-02	1.07E-01
2849	490169.73, 3859355.34	7.64E-02	5.06E-03	2.84E-02	5.58E-03	2.41E-04	1.70E-02	1.18E-05	0.13269252	4.34E-02	5.06E-03	2.84E-02	5.58E-03	2.41E-04	2.85E-04	1.70E-02	9.99E-02
2850	490219.73, 3859355.34	7.19E-02	4.63E-03	2.60E-02	5.58E-03	2.40E-04	1.65E-02	1.14E-05	0.124842	4.07E-02	4.63E-03	2.60E-02	5.58E-03	2.40E-04	2.85E-04	1.65E-02	9.39E-02
2851	490269.73, 3859355.34	6.80E-02	4.27E-03	2.39E-02	5.57E-03	2.39E-04	1.60E-02	1.10E-05	0.11797624	3.83E-02	4.27E-03	2.39E-02	5.57E-03	2.39E-04	2.85E-04	1.60E-02	8.86E-02
2852	490319.73, 3859355.34	6.47E-02	3.94E-03	2.19E-02	5.56E-03	2.38E-04	1.55E-02	1.07E-05	0.11183627	3.63E-02	3.94E-03	2.19E-02	5.56E-03	2.38E-04	2.86E-04	1.55E-02	8.37E-02

2853	490069.73, 3859405.34	1.11E-01	7.56E-03	4.14E-02	5.31E-03	2.30E-04	1.79E-02	1.23E-05	0.18322416	6.31E-02	7.56E-03	4.14E-02	5.31E-03	2.30E-04	2.79E-04	1.79E-02	1.36E-01
2854	490119.73, 3859405.34	9.73E-02	6.73E-03	3.73E-02	5.31E-03	2.29E-04	1.75E-02	1.16E-05	0.16436865	5.56E-02	6.73E-03	3.73E-02	5.31E-03	2.29E-04	2.78E-04	1.75E-02	1.23E-01
2855	490169.73, 3859405.34	8.77E-02	6.05E-03	3.38E-02	5.32E-03	2.28E-04	1.70E-02	1.12E-05	0.15018937	5.01E-02	6.05E-03	3.38E-02	5.32E-03	2.28E-04	2.77E-04	1.70E-02	1.13E-01
2856	490219.73, 3859405.34	8.05E-02	5.49E-03	3.08E-02	5.32E-03	2.28E-04	1.66E-02	1.08E-05	0.13900825	4.59E-02	5.49E-03	3.08E-02	5.32E-03	2.28E-04	2.77E-04	1.66E-02	1.05E-01
2857	490269.73, 3859405.34	7.47E-02	4.99E-03	2.81E-02	5.32E-03	2.27E-04	1.61E-02	1.04E-05	0.12938422	4.25E-02	4.99E-03	2.81E-02	5.32E-03	2.27E-04	2.77E-04	1.61E-02	9.74E-02
2858	490319.73, 3859405.34	6.99E-02	4.57E-03	2.55E-02	5.32E-03	2.27E-04	1.56E-02	1.01E-05	0.1211188	3.96E-02	4.57E-03	2.55E-02	5.32E-03	2.27E-04	2.78E-04	1.56E-02	9.11E-02
2859	490161.89, 3859541.83	1.37E-01	1.37E-02	7.04E-02	4.64E-03	1.99E-04	1.71E-02	9.15E-06	0.24327357	8.35E-02	1.37E-02	7.04E-02	4.64E-03	1.99E-04	2.60E-04	1.71E-02	1.90E-01
2860	490171.89, 3859541.83	1.35E-01	1.33E-02	6.83E-02	4.64E-03	1.99E-04	1.70E-02	9.17E-06	0.23857905	8.20E-02	1.33E-02	6.83E-02	4.64E-03	1.99E-04	2.60E-04	1.70E-02	1.86E-01
2861	490161.89, 3859551.83	1.40E-01	1.52E-02	7.70E-02	4.60E-03	1.97E-04	1.71E-02	8.90E-06	0.25360339	8.64E-02	1.52E-02	7.70E-02	4.60E-03	1.97E-04	2.59E-04	1.71E-02	2.01E-01
2862	490171.89, 3859551.83	1.37E-01	1.46E-02	7.44E-02	4.60E-03	1.97E-04	1.70E-02	8.91E-06	0.24832521	8.47E-02	1.46E-02	7.44E-02	4.60E-03	1.97E-04	2.59E-04	1.70E-02	1.96E-01
2863	489799.72, 3859348.21	1.46E-01	1.30E-02	6.53E-02	5.61E-03	2.49E-04	2.08E-02	1.65E-05	0.25102311	8.68E-02	1.30E-02	6.53E-02	5.61E-03	2.49E-04	2.96E-04	2.08E-02	1.92E-01
2864	489819.72, 3859348.21	1.42E-01	1.20E-02	6.07E-02	5.61E-03	2.49E-04	2.06E-02	1.64E-05	0.24103107	8.35E-02	1.20E-02	6.07E-02	5.61E-03	2.49E-04	2.95E-04	2.06E-02	1.83E-01
2865	489799.72, 3859368.21	1.57E-01	1.55E-02	7.62E-02	5.48E-03	2.43E-04	2.08E-02	1.60E-05	0.27537894	9.52E-02	1.55E-02	7.62E-02	5.48E-03	2.43E-04	2.94E-04	2.08E-02	2.14E-01
2866	489819.72, 3859368.21	1.53E-01	1.40E-02	7.00E-02	5.49E-03	2.43E-04	2.05E-02	1.57E-05	0.26320854	9.14E-02	1.40E-02	7.00E-02	5.49E-03	2.43E-04	2.93E-04	2.05E-02	2.02E-01
2867	489775.41, 3859329.72	1.46E-01	1.25E-02	6.28E-02	5.72E-03	2.55E-04	2.11E-02	1.74E-05	0.24840016	8.62E-02	1.25E-02	6.28E-02	5.72E-03	2.55E-04	2.99E-04	2.11E-02	1.89E-01
2868	489795.41, 3859329.72	1.41E-01	1.15E-02	5.85E-02	5.73E-03	2.55E-04	2.09E-02	1.72E-05	0.23770912	8.25E-02	1.15E-02	5.85E-02	5.73E-03	2.55E-04	2.99E-04	2.09E-02	1.80E-01
2869	489775.41, 3859349.72	1.53E-01	1.48E-02	7.28E-02	5.59E-03	2.49E-04	2.11E-02	1.69E-05	0.26732365	9.22E-02	1.48E-02	7.28E-02	5.59E-03	2.49E-04	2.97E-04	2.11E-02	2.07E-01
2870	489795.41, 3859349.72	1.48E-01	1.34E-02	6.71E-02	5.60E-03	2.48E-04	2.09E-02	1.66E-05	0.2550949	8.82E-02	1.34E-02	6.71E-02	5.60E-03	2.48E-04	2.96E-04	2.09E-02	1.96E-01
2871	489595.05, 3859219.43	1.47E-01	1.15E-02	5.62E-02	6.51E-03	3.01E-04	2.37E-02	2.45E-05	0.24500071	8.53E-02	1.15E-02	5.62E-02	6.51E-03	3.01E-04	3.21E-04	2.37E-02	1.84E-01
2872	489615.05, 3859219.43	1.42E-01	1.06E-02	5.26E-02	6.51E-03	3.01E-04	2.33E-02	2.38E-05	0.23547446	8.20E-02	1.06E-02	5.26E-02	6.51E-03	3.01E-04	3.20E-04	2.33E-02	1.76E-01
2873	489595.05, 3859239.43	1.55E-01	1.34E-02	6.47E-02	6.34E-03	2.92E-04	2.38E-02	2.41E-05	0.26347726	9.16E-02	1.34E-02	6.47E-02	6.34E-03	2.92E-04	3.19E-04	2.38E-02	2.00E-01
2874	489615.05, 3859239.43	1.51E-01	1.23E-02	6.00E-02	6.35E-03	2.92E-04	2.34E-02	2.33E-05	0.25304881	8.82E-02	1.23E-02	6.00E-02	6.35E-03	2.92E-04	3.18E-04	2.34E-02	1.91E-01
2875	489372.4, 3859092.58	1.38E-01	1.13E-02	5.10E-02	7.81E-03	3.93E-04	2.70E-02	4.63E-05	0.23604304	8.09E-02	1.13E-02	5.10E-02	7.81E-03	3.93E-04	3.49E-04	2.70E-02	1.79E-01
2876	489422.4, 3859092.58	1.33E-01	9.42E-03	4.36E-02	7.79E-03	3.89E-04	2.59E-02	3.93E-05	0.21980266	7.59E-02	9.42E-03	4.36E-02	7.79E-03	3.89E-04	3.46E-04	2.59E-02	1.63E-01
2877	489372.4, 3859142.58	1.63E-01	1.74E-02	7.46E-02	7.22E-03	3.51E-04	2.77E-02	4.45E-05	0.28992726	9.95E-02	1.74E-02	7.46E-02	7.22E-03	3.51E-04	3.42E-04	2.77E-02	2.27E-01
2878	489422.4, 3859142.58	1.53E-01	1.34E-02	6.06E-02	7.22E-03	3.50E-04	2.66E-02	3.76E-05	0.26096627	9.03E-02	1.34E-02	6.06E-02	7.22E-03	3.50E-04	3.40E-04	2.66E-02	1.99E-01
2879	488870.84, 3858666.64	1.46E-01	6.24E-03	4.26E-03	1.78E-02	1.51E-03	2.03E-02	5.30E-05	0.19649002	7.78E-02	6.24E-03	4.26E-03	1.78E-02	1.51E-03	4.58E-04	2.03E-02	1.28E-01
2880	488900.84, 3858666.64	1.36E-01	5.80E-03	4.26E-03	1.74E-02	1.42E-03	2.01E-02	7.68E-05	0.18553865	7.27E-02	5.80E-03	4.26E-03	1.74E-02	1.42E-03	4.57E-04	2.01E-02	1.22E-01
2881	488870.84, 3858696.64	1.42E-01	7.03E-03	4.73E-03	1.76E-02	1.64E-03	2.15E-02	4.08E-05	0.19425562	7.63E-02	7.03E-03	4.73E-03	1.76E-02	1.64E-03	4.51E-04	2.15E-02	1.29E-01
2882	488900.84, 3858696.64	1.32E-01	6.47E-03	4.73E-03	1.72E-02	1.53E-03	2.12E-02	5.20E-05	0.1835349	7.13E-02	6.47E-03	4.73E-03	1.72E-02	1.53E-03	4.49E-04	2.12E-02	1.23E-01
2883	488889.67, 3858683.97	1.37E-01	6.34E-03	4.52E-03	1.74E-02	1.51E-03	2.08E-02	5.33E-05	0.18742506	7.33E-02	6.34E-03	4.52E-03	1.74E-02	1.51E-03	4.53E-04	2.08E-02	1.24E-01
2884	488919.67, 3858683.97	1.29E-01	5.89E-03	4.52E-03	1.71E-02	1.42E-03	2.06E-02	7.67E-05	0.17888533	6.94E-02	5.89E-03	4.52E-03	1.71E-02	1.42E-03	4.51E-04	2.06E-02	1.19E-01
2885	488889.67, 3858713.97	1.35E-01	7.18E-03	5.07E-03	1.74E-02	1.64E-03	2.20E-02	4.11E-05	0.18790393	7.31E-02	7.18E-03	5.07E-03	1.74E-02	1.64E-03	4.45E-04	2.20E-02	1.27E-01
2886	488919.67, 3858713.97	1.27E-01	6.60E-03	5.07E-03	1.69E-02	1.53E-03	2.17E-02	5.23E-05	0.17884031	6.89E-02	6.60E-03	5.07E-03	1.69E-02	1.53E-03	4.43E-04	2.17E-02	1.21E-01
2887	488906.61, 3858703.33	1.30E-01	6.55E-03	4.86E-03	1.71E-02	1.53E-03	2.14E-02	5.13E-05	0.18192007	7.05E-02	6.55E-03	4.86E-03	1.71E-02	1.53E-03	4.47E-04	2.14E-02	1.22E-01
2888	488936.61, 3858703.33	1.24E-01	6.07E-03	4.85E-03	1.68E-02	1.43E-03	2.11E-02	7.27E-05	0.1746344	6.71E-02	6.07E-03	4.85E-03	1.68E-02	1.43E-03	4.45E-04	2.11E-02	1.18E-01
2889	488906.61, 3858733.33	1.30E-01	7.45E-03	5.52E-03	1.71E-02	1.66E-03	2.26E-02	4.05E-05	0.18460289	7.12E-02	7.45E-03	5.52E-03	1.71E-02	1.66E-03	4.40E-04	2.26E-02	1.26E-01
2890	488936.61, 3858733.33	1.23E-01	6.84E-03	5.52E-03	1.67E-02	1.54E-03	2.23E-02	5.10E-05	0.17647013	6.75E-02	6.84E-03	5.52E-03	1.67E-02	1.54E-03	4.38E-04	2.23E-02	1.21E-01
2891	488637.63, 3858467.85	1.57E-01	5.88E-03	2.56E-03	2.49E-02	1.51E-03	1.74E-02	4.41E-05	0.20978149	8.20E-02	5.88E-03	2.56E-03	2.49E-02	1.51E-03	5.36E-04	1.74E-02	1.35E-01
2892	488662.63, 3858467.85	1.49E-01	5.51E-03	2.57E-03	2.44E-02	1.44E-03	1.73E-02	5.56E-05	0.19983256	7.75E-02	5.51E-03	2.57E-03	2.44E-02	1.44E-03	5.34E-04	1.73E-02	1.29E-01
2893	488637.63, 3858492.85	1.55E-01	6.43E-03	2.67E-03	2.41E-02	1.60E-03	1.78E-02	3.60E-05	0.20784824	8.13E-02	6.43E-03	2.67E-03	2.41E-02	1.60E-03	5.26E-04	1.78E-02	1.34E-01
2894	488662.63, 3858492.85	1.48E-01	5.98E-03	2.69E-03	2.36E-02	1.52E-03	1.76E-02	4.30E-05	0.1997616	7.77E-02	5.98E-03	2.69E-03	2.36E-02	1.52E-03	5.25E-04	1.76E-02	1.30E-01
2895	488687.63, 3858492.85	1.44E-01	5.59E-03	2.70E-03	2.32E-02	1.45E-03	1.75E-02	5.43E-05	0.1948744	7.56E-02	5.59E-03	2.70E-03	2.32E-02	1.45E-03	5.23E-04	1.75E-02	1.27E-01
2896	488637.63, 3858517.85	1.59E-01	7.10E-03	2.79E-03	2.34E-02	1.71E-03	1.81E-02	3.06E-05	0.21265667	8.38E-02	7.10E-03	2.79E-03	2.34E-02	1.71E-03	5.17E-04	1.81E-02	1.37E-01
2897	488662.63, 3858517.85	1.54E-01	6.55E-03	2.81E-03	2.30E-02	1.62E-03	1.80E-02	3.53E-05	0.20557419	8.07E-02	6.55E-03	2.81E-03	2.30E-02	1.62E-03	5.16E-04	1.80E-02	1.33E-01
2898	488687.63, 3858517.85	1.51E-01	6.08E-03	2.83E-03	2.25E-02	1.54E-03	1.78E-02	4.20E-05	0.20150858	7.90E-02	6.08E-03	2.83E-03	2.25E-02	1.54E-03	5.14E-04	1.78E-02	1.30E-01
2899	488194.42, 3857168.98	9.47E-02	1.47E-03	9.75E-04	2.99E-02	1.73E-03	1.11E-02	1.72E-06	0.13992738	4.75E-02	1.47E-03	9.75E-04	2.99E-02	1.73E-03	3.23E-03	1.11E-02	9.60E-02
2900	488244.42, 3857168.98	8.73E-02	1.44E-03	9.80E-04	2.93E-02	1.67E-03	1.10E-02	1.74E-06	0.13165639	4.39E-02	1.44E-03	9.80E-04	2.93E-02	1.67E-03	3.11E-03	1.10E-02	9.14E-02
2901	488294.42, 3857168.98	8.17E-02	1.40E-03	9.83E-04	2.86E-02	1.61E-03	1.09E-02	1.76E-06	0.12526068	4.12E-02	1.40E-03	9.83E-04	2.86E-02	1.61E-03	3.01E-03	1.09E-02	8.77E-02
2902	488244.42, 3857218.98	9.24E-02	1.49E-03	9.88E-04	3.00E-02	1.69E-03	1.09E-02	1.82E-06	0.13749317	4.64E-02	1.49E-03	9.88E-04	3.00E-02	1.69E-03	2.92E-03	1.09E-02	9.44E-02
2903	488294.42, 3857218.98	8.55E-02	1.45E-03	9.92E-04	2.93E-02	1.63E-03	1.08E-02	1.85E-06	0.12972775	4.30E-02	1.45E-03	9.92E-04	2.93E-02	1.63E-03	2.83E-03	1.08E-02	9.01E-02
2904	488294.42, 3857268.98	8.85E-02	1.50E-03	1.00E-03	3.00E-02	1.65E-03	1.08E-02	1.95E-06	0.13344109	4.46E-02	1.50E-03	1.00E-03	3.00E-02	1.65E-03	2.64E-03	1.08E-02	9.21E-02
2905	488139.13, 3857111.68	9.44E-02	1.46E-03	9.64E-04	2.99E-02	1.76E-03	1.15E-02	1.61E-06	0.13992045	4.73E-02	1.46E-03	9.64E-04	2.99E-02	1.76E-03	3.61E-03	1.15E-02	9.64E-02
2906	488189.13, 3857111.68	8.73E-02	1.42E-03	9.69E-04	2.92E-02	1.70E-03	1.13E-02	1.64E-06	0.13191214	4.38E-02	1.42E-03	9.69E-04	2.92E-02	1.70E-03	3.46E-03	1.13E-02	9.19E-02

2907	488189.13, 3857161.68	9.44E-02	1.47E-03	9.74E-04	2.99E-02	1.73E-03	1.12E-02	1.70E-06	0.13972066	4.74E-02	1.47E-03	9.74E-04	2.99E-02	1.73E-03	3.27E-03	1.12E-02	9.59E-02
2908	487951.04, 3856961.26	1.03E-01	1.46E-03	9.40E-04	2.97E-02	1.91E-03	1.28E-02	1.35E-06	0.14990823	5.15E-02	1.46E-03	9.40E-04	2.97E-02	1.91E-03	4.91E-03	1.28E-02	1.03E-01
2909	488001.04, 3856961.26	9.32E-02	1.42E-03	9.43E-04	2.91E-02	1.84E-03	1.25E-02	1.37E-06	0.13903738	4.67E-02	1.42E-03	9.43E-04	2.91E-02	1.84E-03	4.68E-03	1.25E-02	9.72E-02
2910	488051.04, 3856961.26	8.63E-02	1.39E-03	9.41E-04	2.85E-02	1.78E-03	1.21E-02	1.38E-06	0.13101121	4.33E-02	1.39E-03	9.41E-04	2.85E-02	1.78E-03	4.48E-03	1.21E-02	9.25E-02
2911	488101.04, 3856961.26	8.05E-02	1.35E-03	9.46E-04	2.80E-02	1.72E-03	1.19E-02	1.41E-06	0.12451603	4.05E-02	1.35E-03	9.46E-04	2.80E-02	1.72E-03	4.27E-03	1.19E-02	8.87E-02
2912	487951.04, 3857011.26	1.11E-01	1.51E-03	9.47E-04	3.06E-02	1.94E-03	1.27E-02	1.41E-06	0.15837247	5.52E-02	1.51E-03	9.47E-04	3.06E-02	1.94E-03	4.71E-03	1.27E-02	1.08E-01
2913	488001.04, 3857011.26	1.00E-01	1.47E-03	9.47E-04	2.99E-02	1.87E-03	1.24E-02	1.42E-06	0.14687137	5.02E-02	1.47E-03	9.47E-04	2.99E-02	1.87E-03	4.50E-03	1.24E-02	1.01E-01
2914	488051.04, 3857011.26	9.20E-02	1.43E-03	9.46E-04	2.92E-02	1.81E-03	1.21E-02	1.44E-06	0.13754607	4.61E-02	1.43E-03	9.46E-04	2.92E-02	1.81E-03	4.31E-03	1.21E-02	9.59E-02
2915	488101.04, 3857011.26	8.53E-02	1.40E-03	9.52E-04	2.87E-02	1.75E-03	1.19E-02	1.47E-06	0.13003476	4.29E-02	1.40E-03	9.52E-04	2.87E-02	1.75E-03	4.12E-03	1.19E-02	9.17E-02
2916	488001.04, 3857061.26	1.10E-01	1.52E-03	9.52E-04	3.08E-02	1.91E-03	1.23E-02	1.48E-06	0.15765589	5.51E-02	1.52E-03	9.52E-04	3.08E-02	1.91E-03	4.28E-03	1.23E-02	1.07E-01
2917	488051.04, 3857061.26	9.98E-02	1.48E-03	9.55E-04	3.01E-02	1.84E-03	1.20E-02	1.50E-06	0.14617624	5.00E-02	1.48E-03	9.55E-04	3.01E-02	1.84E-03	4.10E-03	1.20E-02	1.00E-01
2918	488101.04, 3857061.26	9.17E-02	1.44E-03	9.58E-04	2.95E-02	1.78E-03	1.18E-02	1.53E-06	0.13708592	4.60E-02	1.44E-03	9.58E-04	2.95E-02	1.78E-03	3.93E-03	1.18E-02	9.53E-02
2919	487638.98, 3856673.79	7.00E-02	1.43E-03	9.07E-04	2.81E-02	2.13E-03	1.39E-02	1.00E-06	0.1164634	3.53E-02	1.43E-03	9.07E-04	2.81E-02	2.13E-03	6.47E-03	1.39E-02	8.83E-02
2920	487688.98, 3856673.79	6.87E-02	1.39E-03	9.10E-04	2.76E-02	2.06E-03	1.36E-02	1.01E-06	0.1142811	3.47E-02	1.39E-03	9.10E-04	2.76E-02	2.06E-03	6.21E-03	1.36E-02	8.64E-02
2921	487638.98, 3856723.79	7.41E-02	1.48E-03	9.08E-04	2.91E-02	2.20E-03	1.43E-02	1.04E-06	0.12208588	3.73E-02	1.48E-03	9.08E-04	2.91E-02	2.20E-03	6.67E-03	1.43E-02	9.20E-02
2922	487688.98, 3856723.79	7.31E-02	1.44E-03	9.11E-04	2.86E-02	2.12E-03	1.39E-02	1.05E-06	0.12009416	3.68E-02	1.44E-03	9.11E-04	2.86E-02	2.12E-03	6.38E-03	1.39E-02	9.02E-02
2923	486324.61, 3855740.57	7.72E-02	1.59E-03	9.87E-04	2.31E-02	2.28E-03	1.12E-02	4.84E-07	0.11642897	3.87E-02	1.59E-03	9.87E-04	2.31E-02	2.28E-03	6.43E-03	1.12E-02	8.43E-02
2924	486374.61, 3855740.57	7.54E-02	1.50E-03	9.74E-04	2.19E-02	2.13E-03	1.06E-02	4.69E-07	0.11253459	3.78E-02	1.50E-03	9.74E-04	2.19E-02	2.13E-03	5.94E-03	1.06E-02	8.08E-02
2925	486424.61, 3855740.57	7.34E-02	1.44E-03	9.70E-04	2.13E-02	2.04E-03	1.02E-02	4.62E-07	0.10936095	3.68E-02	1.44E-03	9.70E-04	2.13E-02	2.04E-03	5.66E-03	1.02E-02	7.84E-02
2926	486324.61, 3855790.57	8.03E-02	1.67E-03	9.77E-04	2.39E-02	2.40E-03	1.19E-02	4.99E-07	0.12124077	4.02E-02	1.67E-03	9.77E-04	2.39E-02	2.40E-03	6.87E-03	1.19E-02	8.80E-02
2927	486374.61, 3855790.57	7.83E-02	1.57E-03	9.65E-04	2.28E-02	2.25E-03	1.12E-02	4.86E-07	0.11710088	3.92E-02	1.57E-03	9.65E-04	2.28E-02	2.25E-03	6.37E-03	1.12E-02	8.44E-02
2928	486424.61, 3855790.57	7.60E-02	1.51E-03	9.64E-04	2.23E-02	2.16E-03	1.09E-02	4.83E-07	0.11385979	3.80E-02	1.51E-03	9.64E-04	2.23E-02	2.16E-03	6.12E-03	1.09E-02	8.21E-02
2929	486324.61, 3855840.57	8.38E-02	1.75E-03	9.68E-04	2.48E-02	2.53E-03	1.26E-02	5.12E-07	0.1264086	4.19E-02	1.75E-03	9.68E-04	2.48E-02	2.53E-03	7.33E-03	1.26E-02	9.19E-02
2930	486374.61, 3855840.57	8.11E-02	1.67E-03	9.64E-04	2.41E-02	2.42E-03	1.22E-02	5.10E-07	0.1224485	4.06E-02	1.67E-03	9.64E-04	2.41E-02	2.42E-03	6.99E-03	1.22E-02	8.89E-02
2931	486424.61, 3855840.57	7.87E-02	1.59E-03	9.59E-04	2.34E-02	2.30E-03	1.17E-02	5.04E-07	0.1186582	3.94E-02	1.59E-03	9.59E-04	2.34E-02	2.30E-03	6.62E-03	1.17E-02	8.60E-02
2932	486324.61, 3855890.57	8.72E-02	1.87E-03	9.67E-04	2.62E-02	2.73E-03	1.37E-02	5.35E-07	0.13264	4.36E-02	1.87E-03	9.67E-04	2.62E-02	2.73E-03	8.05E-03	1.37E-02	9.71E-02
2933	486374.61, 3855890.57	8.42E-02	1.77E-03	9.62E-04	2.54E-02	2.60E-03	1.31E-02	5.32E-07	0.12813141	4.22E-02	1.77E-03	9.62E-04	2.54E-02	2.60E-03	7.62E-03	1.31E-02	9.37E-02
2934	486424.61, 3855890.57	8.16E-02	1.68E-03	9.55E-04	2.46E-02	2.46E-03	1.26E-02	5.26E-07	0.12385606	4.09E-02	1.68E-03	9.55E-04	2.46E-02	2.46E-03	7.18E-03	1.26E-02	9.03E-02
2935	488735.69, 3858285.64	1.33E-01	3.18E-03	1.99E-03	2.73E-02	1.07E-03	1.61E-02	4.79E-05	0.18284157	6.81E-02	3.18E-03	1.99E-03	2.73E-02	1.07E-03	6.30E-04	1.61E-02	1.18E-01
2936	488765.69, 3858285.64	1.24E-01	3.06E-03	2.00E-03	2.66E-02	1.05E-03	1.59E-02	4.37E-05	0.17220318	6.34E-02	3.06E-03	2.00E-03	2.66E-02	1.05E-03	6.31E-04	1.59E-02	1.13E-01
2937	488735.69, 3858315.64	1.29E-01	3.35E-03	2.07E-03	2.67E-02	1.09E-03	1.61E-02	5.36E-05	0.17828542	6.62E-02	3.35E-03	2.07E-03	2.67E-02	1.09E-03	6.10E-04	1.61E-02	1.16E-01
2938	488765.69, 3858315.64	1.21E-01	3.22E-03	2.07E-03	2.61E-02	1.06E-03	1.59E-02	4.83E-05	0.16900984	6.21E-02	3.22E-03	2.07E-03	2.61E-02	1.06E-03	6.10E-04	1.59E-02	1.11E-01
2939	478676.63, 3849871.93	1.85E-02	3.24E-03	2.15E-02	6.43E-04	2.65E-05	3.16E-04	8.55E-08	0.0443122	1.30E-02	3.24E-03	2.15E-02	6.43E-04	2.65E-05	3.87E-05	3.16E-04	3.88E-02
2940	479326.63, 3849871.93	1.28E-02	1.94E-03	1.33E-02	6.13E-04	3.26E-05	2.86E-04	8.65E-08	0.02893514	8.59E-03	1.94E-03	1.33E-02	6.13E-04	3.26E-05	5.59E-05	2.86E-04	2.48E-02
2941	479376.63, 3849871.93	1.25E-02	1.88E-03	1.29E-02	6.03E-04	3.29E-05	2.84E-04	8.68E-08	0.02820323	8.38E-03	1.88E-03	1.29E-02	6.03E-04	3.29E-05	5.73E-05	2.84E-04	2.41E-02
2942	479426.63, 3849871.93	1.23E-02	1.84E-03	1.26E-02	5.95E-04	3.33E-05	2.83E-04	8.76E-08	0.02762049	8.21E-03	1.84E-03	1.26E-02	5.95E-04	3.33E-05	5.87E-05	2.83E-04	2.36E-02
2943	478726.63, 3849921.93	1.95E-02	3.42E-03	2.25E-02	6.54E-04	2.70E-05	3.21E-04	8.65E-08	0.04648734	1.37E-02	3.42E-03	2.25E-02	6.54E-04	2.70E-05	3.92E-05	3.21E-04	4.07E-02
2944	478776.63, 3849921.93	1.88E-02	3.25E-03	2.16E-02	6.64E-04	2.75E-05	3.20E-04	8.67E-08	0.04461376	1.31E-02	3.25E-03	2.16E-02	6.64E-04	2.75E-05	4.01E-05	3.20E-04	3.90E-02
2945	478826.63, 3849921.93	1.81E-02	3.10E-03	2.07E-02	6.71E-04	2.80E-05	3.19E-04	8.68E-08	0.04288273	1.26E-02	3.10E-03	2.07E-02	6.71E-04	2.80E-05	4.11E-05	3.19E-04	3.74E-02
2946	478976.63, 3849921.93	1.64E-02	2.72E-03	1.83E-02	6.81E-04	2.95E-05	3.14E-04	8.72E-08	0.03846381	1.13E-02	2.72E-03	1.83E-02	6.81E-04	2.95E-05	4.46E-05	3.14E-04	3.34E-02
2947	479026.63, 3849921.93	1.59E-02	2.62E-03	1.78E-02	6.86E-04	3.02E-05	3.15E-04	8.77E-08	0.03731544	1.09E-02	2.62E-03	1.78E-02	6.86E-04	3.02E-05	4.62E-05	3.15E-04	3.24E-02
2948	479076.63, 3849921.93	1.55E-02	2.52E-03	1.72E-02	6.86E-04	3.08E-05	3.14E-04	8.80E-08	0.0361654	1.06E-02	2.52E-03	1.72E-02	6.86E-04	3.08E-05	4.77E-05	3.14E-04	3.13E-02
2949	479126.63, 3849921.93	1.50E-02	2.43E-03	1.66E-02	6.83E-04	3.13E-05	3.12E-04	8.81E-08	0.03505254	1.03E-02	2.43E-03	1.66E-02	6.83E-04	3.13E-05	4.93E-05	3.12E-04	3.03E-02
2950	479176.63, 3849921.93	1.46E-02	2.35E-03	1.60E-02	6.80E-04	3.19E-05	3.12E-04	8.85E-08	0.03405718	9.98E-03	2.35E-03	1.60E-02	6.80E-04	3.19E-05	5.09E-05	3.12E-04	2.94E-02
2951	479226.63, 3849921.93	1.43E-02	2.25E-03	1.54E-02	6.66E-04	3.22E-05	3.04E-04	8.81E-08	0.03291806	9.69E-03	2.25E-03	1.54E-02	6.66E-04	3.22E-05	5.24E-05	3.04E-04	2.84E-02
2952	479276.63, 3849921.93	1.39E-02	2.13E-03	1.45E-02	6.41E-04	3.22E-05	2.94E-04	8.68E-08	0.03152056	9.36E-03	2.13E-03	1.45E-02	6.41E-04	3.22E-05	5.35E-05	2.94E-04	2.70E-02
2953	479326.63, 3849921.93	1.36E-02	2.11E-03	1.45E-02	6.53E-04	3.32E-05	3.02E-04	8.89E-08	0.0312012	9.19E-03	2.11E-03	1.45E-02	6.53E-04	3.32E-05	5.58E-05	3.02E-04	2.68E-02
2954	479376.63, 3849921.93	1.33E-02	2.00E-03	1.37E-02	6.25E-04	3.32E-05	2.91E-04	8.77E-08	0.02993296	8.90E-03	2.00E-03	1.37E-02	6.25E-04	3.32E-05	5.68E-05	2.91E-04	2.56E-02
2955	479426.63, 3849921.93	1.30E-02	1.97E-03	1.36E-02	6.28E-04	3.39E-05	2.95E-04	8.91E-08	0.02950816	8.72E-03	1.97E-03	1.36E-02	6.28E-04	3.39E-05	5.86E-05	2.95E-04	2.53E-02
2956	478726.63, 3849971.93	2.16E-02	3.81E-03	2.47E-02	6.54E-04	2.70E-05	3.27E-04	8.72E-08	0.05115373	1.51E-02	3.81E-03	2.47E-02	6.54E-04	2.70E-05	3.90E-05	3.27E-04	4.47E-02
2957	478776.63, 3849971.93	2.06E-02	3.60E-03	2.36E-02	6.65E-04	2.75E-05	3.26E-04	8.75E-08	0.04886912	1.44E-02	3.60E-03	2.36E-02	6.65E-04	2.75E-05	3.97E-05	3.26E-04	4.27E-02
2958	478826.63, 3849971.93	1.98E-02	3.42E-03	2.25E-02	6.74E-04	2.79E-05	3.24E-04	8.76E-08	0.0467866	1.38E-02	3.42E-03	2.25E-02	6.74E-04	2.79E-05	4.06E-05	3.24E-04	4.08E-02
2959	478976.63, 3849971.93	1.77E-02	2.97E-03	1.99E-02	6.96E-04	2.97E-05	3.24E-04	8.85E-08	0.04169592	1.22E-02	2.97E-03	1.99E-02	6.96E-04	2.97E-05	4.41E-05	3.24E-04	3.63E-02
2960	479026.63, 3849971.93	1.72E-02	2.84E-03	1.92E-02	6.98E-04	3.02E-05	3.22E-04	8.86E-08	0.04021921	1.18E-02	2.84E-03	1.92E-02	6.98E-04	3.02E-05	4.54E-05	3.22E-04	3.49E-02

2961	479076.63, 3849971.93	1.67E-02	2.72E-03	1.84E-02	6.98E-04	3.07E-05	3.20E-04	8.88E-08	0.03884546	1.14E-02	2.72E-03	1.84E-02	6.98E-04	3.07E-05	4.68E-05	3.20E-04	3.37E-02
2962	479126.63, 3849971.93	1.62E-02	2.62E-03	1.77E-02	6.98E-04	3.13E-05	3.19E-04	8.90E-08	0.03757629	1.11E-02	2.62E-03	1.77E-02	6.98E-04	3.13E-05	4.83E-05	3.19E-04	3.25E-02
2963	479176.63, 3849971.93	1.57E-02	2.52E-03	1.71E-02	6.95E-04	3.18E-05	3.17E-04	8.93E-08	0.03641696	1.07E-02	2.52E-03	1.71E-02	6.95E-04	3.18E-05	5.00E-05	3.17E-04	3.15E-02
2964	479226.63, 3849971.93	1.53E-02	2.37E-03	1.61E-02	6.68E-04	3.18E-05	3.02E-04	8.76E-08	0.03471524	1.03E-02	2.37E-03	1.61E-02	6.68E-04	3.18E-05	5.09E-05	3.02E-04	2.98E-02
2965	479276.63, 3849971.93	1.49E-02	2.32E-03	1.59E-02	6.78E-04	3.27E-05	3.09E-04	8.91E-08	0.03408429	1.01E-02	2.32E-03	1.59E-02	6.78E-04	3.27E-05	5.31E-05	3.09E-04	2.93E-02
2966	479326.63, 3849971.93	1.45E-02	2.27E-03	1.56E-02	6.82E-04	3.35E-05	3.14E-04	9.04E-08	0.03335572	9.81E-03	2.27E-03	1.56E-02	6.82E-04	3.35E-05	5.51E-05	3.14E-04	2.87E-02
2967	479376.63, 3849971.93	1.41E-02	2.16E-03	1.48E-02	6.56E-04	3.35E-05	3.02E-04	8.93E-08	0.03209807	9.51E-03	2.16E-03	1.48E-02	6.56E-04	3.35E-05	5.63E-05	3.02E-04	2.75E-02
2968	479426.63, 3849971.93	1.38E-02	2.10E-03	1.45E-02	6.52E-04	3.41E-05	3.03E-04	9.01E-08	0.03137603	9.28E-03	2.10E-03	1.45E-02	6.52E-04	3.41E-05	5.81E-05	3.03E-04	2.69E-02
2969	478726.63, 3850021.93	2.42E-02	4.30E-03	2.74E-02	6.52E-04	2.70E-05	3.33E-04	8.80E-08	0.05696853	1.70E-02	4.30E-03	2.74E-02	6.52E-04	2.70E-05	3.89E-05	3.33E-04	4.98E-02
2970	478776.63, 3850021.93	2.30E-02	4.04E-03	2.60E-02	6.64E-04	2.74E-05	3.31E-04	8.81E-08	0.05409792	1.61E-02	4.04E-03	2.60E-02	6.64E-04	2.74E-05	3.95E-05	3.31E-04	4.72E-02
2971	478826.63, 3850021.93	2.20E-02	3.81E-03	2.48E-02	6.76E-04	2.79E-05	3.30E-04	8.84E-08	0.05156321	1.53E-02	3.81E-03	2.48E-02	6.76E-04	2.79E-05	4.03E-05	3.30E-04	4.50E-02
2972	478976.63, 3850021.93	1.94E-02	3.26E-03	2.17E-02	7.03E-04	2.96E-05	3.30E-04	8.93E-08	0.045366	1.34E-02	3.26E-03	2.17E-02	7.03E-04	2.96E-05	4.34E-05	3.30E-04	3.94E-02
2973	478726.63, 3850071.93	2.77E-02	4.95E-03	3.08E-02	6.48E-04	2.70E-05	3.39E-04	8.88E-08	0.06444715	1.95E-02	4.95E-03	3.08E-02	6.48E-04	2.70E-05	3.89E-05	3.39E-04	5.63E-02
2974	478776.63, 3850071.93	2.61E-02	4.61E-03	2.90E-02	6.62E-04	2.75E-05	3.38E-04	8.89E-08	0.06075516	1.83E-02	4.61E-03	2.90E-02	6.62E-04	2.75E-05	3.94E-05	3.38E-04	5.30E-02
2975	478826.63, 3850071.93	2.47E-02	4.31E-03	2.75E-02	6.75E-04	2.79E-05	3.37E-04	8.91E-08	0.05753837	1.73E-02	4.31E-03	2.75E-02	6.75E-04	2.79E-05	4.01E-05	3.37E-04	5.01E-02
2976	478876.63, 3850071.93	2.35E-02	4.05E-03	2.61E-02	6.87E-04	2.84E-05	3.36E-04	8.94E-08	0.05467967	1.64E-02	4.05E-03	2.61E-02	6.87E-04	2.84E-05	4.08E-05	3.36E-04	4.76E-02
2977	478976.63, 3850071.93	2.15E-02	3.61E-03	2.37E-02	7.08E-04	2.96E-05	3.36E-04	9.01E-08	0.04984568	1.48E-02	3.61E-03	2.37E-02	7.08E-04	2.96E-05	4.28E-05	3.36E-04	4.33E-02
2978	478726.63, 3850121.93	3.25E-02	5.85E-03	3.52E-02	6.42E-04	2.72E-05	3.45E-04	8.95E-08	0.07456969	2.30E-02	5.85E-03	3.52E-02	6.42E-04	2.72E-05	3.91E-05	3.45E-04	6.50E-02
2979	478776.63, 3850121.93	3.03E-02	5.37E-03	3.28E-02	6.59E-04	2.76E-05	3.44E-04	8.98E-08	0.06954246	2.13E-02	5.37E-03	3.28E-02	6.59E-04	2.76E-05	3.95E-05	3.44E-04	6.06E-02
2980	478826.63, 3850121.93	2.84E-02	4.96E-03	3.08E-02	6.73E-04	2.80E-05	3.43E-04	8.99E-08	0.06525952	1.99E-02	4.96E-03	3.08E-02	6.73E-04	2.80E-05	4.00E-05	3.43E-04	5.68E-02
2981	478876.63, 3850121.93	2.68E-02	4.62E-03	2.91E-02	6.87E-04	2.85E-05	3.42E-04	9.02E-08	0.06157233	1.87E-02	4.62E-03	2.91E-02	6.87E-04	2.85E-05	4.07E-05	3.42E-04	5.35E-02
2982	478976.63, 3850121.93	2.41E-02	4.05E-03	2.61E-02	7.11E-04	2.96E-05	3.42E-04	9.08E-08	0.05538759	1.67E-02	4.05E-03	2.61E-02	7.11E-04	2.96E-05	4.24E-05	3.42E-04	4.80E-02
2983	479026.63, 3850121.93	2.30E-02	3.82E-03	2.49E-02	7.21E-04	3.02E-05	3.42E-04	9.12E-08	0.05283118	1.59E-02	3.82E-03	2.49E-02	7.21E-04	3.02E-05	4.35E-05	3.42E-04	4.57E-02
2984	479076.63, 3850121.93	2.21E-02	3.61E-03	2.37E-02	7.28E-04	3.07E-05	3.41E-04	9.14E-08	0.05051669	1.51E-02	3.61E-03	2.37E-02	7.28E-04	3.07E-05	4.46E-05	3.41E-04	4.36E-02
2985	479126.63, 3850121.93	2.12E-02	3.43E-03	2.27E-02	7.33E-04	3.12E-05	3.40E-04	9.16E-08	0.04837599	1.45E-02	3.43E-03	2.27E-02	7.33E-04	3.12E-05	4.58E-05	3.40E-04	4.17E-02
2986	478776.63, 3850171.93	3.63E-02	6.45E-03	3.80E-02	6.53E-04	2.77E-05	3.51E-04	9.06E-08	0.08181971	2.56E-02	6.45E-03	3.80E-02	6.53E-04	2.77E-05	3.97E-05	3.51E-04	7.11E-02
2987	478826.63, 3850171.93	3.36E-02	5.87E-03	3.53E-02	6.69E-04	2.81E-05	3.49E-04	9.07E-08	0.07578229	2.35E-02	5.87E-03	3.53E-02	6.69E-04	2.81E-05	4.01E-05	3.49E-04	6.58E-02
2988	478876.63, 3850171.93	3.13E-02	5.38E-03	3.30E-02	6.84E-04	2.85E-05	3.48E-04	9.10E-08	0.07068823	2.18E-02	5.38E-03	3.30E-02	6.84E-04	2.85E-05	4.06E-05	3.48E-04	6.12E-02
2989	478976.63, 3850171.93	2.76E-02	4.63E-03	2.92E-02	7.13E-04	2.96E-05	3.48E-04	9.16E-08	0.06249117	1.91E-02	4.63E-03	2.92E-02	7.13E-04	2.96E-05	4.21E-05	3.48E-04	5.40E-02
2990	479026.63, 3850171.93	2.61E-02	4.33E-03	2.76E-02	7.25E-04	3.02E-05	3.49E-04	9.20E-08	0.05917552	1.80E-02	4.33E-03	2.76E-02	7.25E-04	3.02E-05	4.31E-05	3.49E-04	5.11E-02
2991	479076.63, 3850171.93	2.49E-02	4.06E-03	2.62E-02	7.34E-04	3.07E-05	3.48E-04	9.23E-08	0.05628722	1.71E-02	4.06E-03	2.62E-02	7.34E-04	3.07E-05	4.41E-05	3.48E-04	4.85E-02
2992	479126.63, 3850171.93	2.37E-02	3.83E-03	2.49E-02	7.41E-04	3.13E-05	3.47E-04	9.25E-08	0.05363894	1.62E-02	3.83E-03	2.49E-02	7.41E-04	3.13E-05	4.52E-05	3.47E-04	4.62E-02
2993	479176.63, 3850171.93	2.27E-02	3.63E-03	2.38E-02	7.48E-04	3.19E-05	3.47E-04	9.29E-08	0.05124185	1.55E-02	3.63E-03	2.38E-02	7.48E-04	3.19E-05	4.66E-05	3.47E-04	4.41E-02
2994	479226.63, 3850171.93	2.17E-02	3.45E-03	2.28E-02	7.56E-04	3.27E-05	3.50E-04	9.37E-08	0.04912968	1.48E-02	3.45E-03	2.28E-02	7.56E-04	3.27E-05	4.81E-05	3.50E-04	4.22E-02
2995	479276.63, 3850171.93	2.08E-02	3.29E-03	2.19E-02	7.62E-04	3.34E-05	3.52E-04	9.47E-08	0.047145	1.41E-02	3.29E-03	2.19E-02	7.62E-04	3.34E-05	4.98E-05	3.52E-04	4.05E-02
2996	479326.63, 3850171.93	2.01E-02	3.14E-03	2.11E-02	7.60E-04	3.39E-05	3.49E-04	9.47E-08	0.04543316	1.36E-02	3.14E-03	2.11E-02	7.60E-04	3.39E-05	5.13E-05	3.49E-04	3.90E-02
2997	479376.63, 3850171.93	1.94E-02	2.99E-03	2.02E-02	7.57E-04	3.44E-05	3.47E-04	9.49E-08	0.04375377	1.31E-02	2.99E-03	2.02E-02	7.57E-04	3.44E-05	5.29E-05	3.47E-04	3.75E-02
2998	478676.63, 3850221.93	5.97E-02	1.09E-02	5.75E-02	6.08E-04	2.70E-05	3.57E-04	9.08E-08	0.12905177	4.24E-02	1.09E-02	5.75E-02	6.08E-04	2.70E-05	3.96E-05	3.57E-04	1.12E-01
2999	478726.63, 3850221.93	5.15E-02	9.28E-03	5.06E-02	6.28E-04	2.74E-05	3.57E-04	9.11E-08	0.11245071	3.64E-02	9.28E-03	5.06E-02	6.28E-04	2.74E-05	3.98E-05	3.57E-04	9.74E-02
3000	478976.63, 3850221.93	3.23E-02	5.40E-03	3.30E-02	7.12E-04	2.97E-05	3.55E-04	9.25E-08	0.07179799	2.23E-02	5.40E-03	3.30E-02	7.12E-04	2.97E-05	4.20E-05	3.55E-04	6.19E-02
3001	479026.63, 3850221.93	3.03E-02	4.99E-03	3.10E-02	7.26E-04	3.02E-05	3.56E-04	9.29E-08	0.06734088	2.08E-02	4.99E-03	3.10E-02	7.26E-04	3.02E-05	4.28E-05	3.56E-04	5.79E-02
3002	479076.63, 3850221.93	2.86E-02	4.64E-03	2.93E-02	7.37E-04	3.07E-05	3.54E-04	9.32E-08	0.06359876	1.96E-02	4.64E-03	2.93E-02	7.37E-04	3.07E-05	4.37E-05	3.54E-04	5.46E-02
3003	479126.63, 3850221.93	2.71E-02	4.34E-03	2.77E-02	7.47E-04	3.13E-05	3.54E-04	9.34E-08	0.06026502	1.85E-02	4.34E-03	2.77E-02	7.47E-04	3.13E-05	4.48E-05	3.54E-04	5.17E-02
3004	479176.63, 3850221.93	2.57E-02	4.08E-03	2.63E-02	7.57E-04	3.20E-05	3.55E-04	9.41E-08	0.05719628	1.75E-02	4.08E-03	2.63E-02	7.57E-04	3.20E-05	4.60E-05	3.55E-04	4.90E-02
3005	479226.63, 3850221.93	2.44E-02	3.84E-03	2.50E-02	7.65E-04	3.27E-05	3.57E-04	9.46E-08	0.0544683	1.66E-02	3.84E-03	2.50E-02	7.65E-04	3.27E-05	4.74E-05	3.57E-04	4.67E-02
3006	479276.63, 3850221.93	2.34E-02	3.64E-03	2.39E-02	7.71E-04	3.34E-05	3.58E-04	9.53E-08	0.05203213	1.58E-02	3.64E-03	2.39E-02	7.71E-04	3.34E-05	4.90E-05	3.58E-04	4.45E-02
3007	479326.63, 3850221.93	2.25E-02	3.46E-03	2.29E-02	7.72E-04	3.39E-05	3.55E-04	9.55E-08	0.04999755	1.51E-02	3.46E-03	2.29E-02	7.72E-04	3.39E-05	5.04E-05	3.55E-04	4.27E-02
3008	479376.63, 3850221.93	2.17E-02	3.29E-03	2.20E-02	7.72E-04	3.45E-05	3.54E-04	9.58E-08	0.04809962	1.46E-02	3.29E-03	2.20E-02	7.72E-04	3.45E-05	5.19E-05	3.54E-04	4.10E-02
3009	478676.63, 3850271.93	9.23E-02	1.66E-02	8.02E-02	5.98E-04	2.72E-05	3.62E-04	9.16E-08	0.19011705	6.54E-02	1.66E-02	8.02E-02	5.98E-04	2.72E-05	4.02E-05	3.62E-04	1.63E-01
3010	478726.63, 3850271.93	7.39E-02	1.32E-02	6.67E-02	6.19E-04	2.76E-05	3.63E-04	9.19E-08	0.15476522	5.22E-02	1.32E-02	6.67E-02	6.19E-04	2.76E-05	4.03E-05	3.63E-04	1.33E-01
3011	478976.63, 3850271.93	3.88E-02	6.50E-03	3.83E-02	7.09E-04	2.97E-05	3.61E-04	9.33E-08	0.08478372	2.68E-02	6.50E-03	3.83E-02	7.09E-04	2.97E-05	4.20E-05	3.61E-04	7.28E-02
3012	479026.63, 3850271.93	3.60E-02	5.90E-03	3.55E-02	7.25E-04	3.03E-05	3.62E-04	9.37E-08	0.07843789	2.47E-02	5.90E-03	3.55E-02	7.25E-04	3.03E-05	4.28E-05	3.62E-04	6.72E-02
3013	479076.63, 3850271.93	3.36E-02	5.41E-03	3.31E-02	7.39E-04	3.08E-05	3.62E-04	9.41E-08	0.0732852	2.30E-02	5.41E-03	3.31E-02	7.39E-04	3.08E-05	4.35E-05	3.62E-04	6.27E-02
3014	479126.63, 3850271.93	3.16E-02	5.00E-03	3.11E-02	7.51E-04	3.14E-05	3.62E-04	9.43E-08	0.06883498	2.15E-02	5.00E-03	3.11E-02	7.51E-04	3.14E-05	4.45E-05	3.62E-04	5.88E-02

3015	479176.63, 3850271.93	2.97E-02	4.65E-03	2.93E-02	7.62E-04	3.20E-05	3.62E-04	9.49E-08	0.06484568	2.01E-02	4.65E-03	2.93E-02	7.62E-04	3.20E-05	4.56E-05	3.62E-04	5.53E-02
3016	479226.63, 3850271.93	2.81E-02	4.35E-03	2.77E-02	7.72E-04	3.26E-05	3.63E-04	9.54E-08	0.06132606	1.90E-02	4.35E-03	2.77E-02	7.72E-04	3.26E-05	4.69E-05	3.63E-04	5.22E-02
3017	479276.63, 3850271.93	2.68E-02	4.09E-03	2.63E-02	7.79E-04	3.33E-05	3.63E-04	9.58E-08	0.05835827	1.80E-02	4.09E-03	2.63E-02	7.79E-04	3.33E-05	4.82E-05	3.63E-04	4.96E-02
3018	479326.63, 3850271.93	2.57E-02	3.86E-03	2.51E-02	7.82E-04	3.38E-05	3.61E-04	9.60E-08	0.05584112	1.72E-02	3.86E-03	2.51E-02	7.82E-04	3.38E-05	4.95E-05	3.61E-04	4.74E-02
3019	479376.63, 3850271.93	2.47E-02	3.65E-03	2.40E-02	7.82E-04	3.43E-05	3.58E-04	9.62E-08	0.05356276	1.65E-02	3.65E-03	2.40E-02	7.82E-04	3.43E-05	5.09E-05	3.58E-04	4.54E-02
3020	479053.24, 3850293.52	3.76E-02	6.09E-03	3.63E-02	7.33E-04	3.06E-05	3.65E-04	9.42E-08	0.08118614	2.58E-02	6.09E-03	3.63E-02	7.33E-04	3.06E-05	4.32E-05	3.65E-04	6.94E-02
3021	479103.24, 3850293.52	3.52E-02	5.57E-03	3.39E-02	7.46E-04	3.11E-05	3.65E-04	9.46E-08	0.07572562	2.39E-02	5.57E-03	3.39E-02	7.46E-04	3.11E-05	4.40E-05	3.65E-04	6.45E-02
3022	479153.24, 3850293.52	3.29E-02	5.14E-03	3.18E-02	7.58E-04	3.17E-05	3.65E-04	9.50E-08	0.07101137	2.23E-02	5.14E-03	3.18E-02	7.58E-04	3.17E-05	4.49E-05	3.65E-04	6.04E-02
3023	479203.24, 3850293.52	3.10E-02	4.77E-03	2.99E-02	7.69E-04	3.23E-05	3.66E-04	9.55E-08	0.06677904	2.09E-02	4.77E-03	2.99E-02	7.69E-04	3.23E-05	4.61E-05	3.66E-04	5.67E-02
3024	479253.24, 3850293.52	2.94E-02	4.45E-03	2.82E-02	7.78E-04	3.30E-05	3.66E-04	9.59E-08	0.06320678	1.97E-02	4.45E-03	2.82E-02	7.78E-04	3.30E-05	4.73E-05	3.66E-04	5.36E-02
3025	479303.24, 3850293.52	2.80E-02	4.18E-03	2.68E-02	7.84E-04	3.35E-05	3.65E-04	9.62E-08	0.06022617	1.87E-02	4.18E-03	2.68E-02	7.84E-04	3.35E-05	4.86E-05	3.65E-04	5.10E-02
3026	479353.24, 3850293.52	2.69E-02	3.93E-03	2.56E-02	7.86E-04	3.41E-05	3.62E-04	9.64E-08	0.0576039	1.79E-02	3.93E-03	2.56E-02	7.86E-04	3.41E-05	4.99E-05	3.62E-04	4.86E-02
3027	479153.24, 3850343.52	4.07E-02	6.12E-03	3.64E-02	7.59E-04	3.17E-05	3.72E-04	9.58E-08	0.08440085	2.73E-02	6.12E-03	3.64E-02	7.59E-04	3.17E-05	4.48E-05	3.72E-04	7.10E-02
3028	479203.24, 3850343.52	3.80E-02	5.60E-03	3.39E-02	7.72E-04	3.23E-05	3.74E-04	9.62E-08	0.07870632	2.53E-02	5.60E-03	3.39E-02	7.72E-04	3.23E-05	4.66E-05	3.74E-04	6.61E-02
3029	479253.24, 3850343.52	3.59E-02	5.16E-03	3.19E-02	7.82E-04	3.29E-05	3.72E-04	9.66E-08	0.07412667	2.38E-02	5.16E-03	3.19E-02	7.82E-04	3.29E-05	4.68E-05	3.72E-04	6.20E-02
3030	479303.24, 3850343.52	3.41E-02	4.79E-03	3.01E-02	7.89E-04	3.34E-05	3.70E-04	9.67E-08	0.07014967	2.24E-02	4.79E-03	3.01E-02	7.89E-04	3.34E-05	4.79E-05	3.70E-04	5.86E-02
3031	479353.24, 3850343.52	3.24E-02	4.47E-03	2.85E-02	7.94E-04	3.40E-05	3.67E-04	9.70E-08	0.06655902	2.12E-02	4.47E-03	2.85E-02	7.94E-04	3.40E-05	4.91E-05	3.67E-04	5.54E-02
3032	479203.24, 3850393.52	5.37E-02	6.80E-03	3.96E-02	7.73E-04	3.23E-05	3.80E-04	9.70E-08	0.10121068	3.44E-02	6.80E-03	3.96E-02	7.73E-04	3.23E-05	4.62E-05	3.80E-04	8.20E-02
3033	479253.24, 3850393.52	4.90E-02	6.16E-03	3.67E-02	7.84E-04	3.28E-05	3.79E-04	9.72E-08	0.09309132	3.14E-02	6.16E-03	3.67E-02	7.84E-04	3.28E-05	4.71E-05	3.79E-04	7.55E-02
3034	479303.24, 3850393.52	4.50E-02	5.64E-03	3.43E-02	7.94E-04	3.34E-05	3.77E-04	9.73E-08	0.08612131	2.88E-02	5.64E-03	3.43E-02	7.94E-04	3.34E-05	4.82E-05	3.77E-04	7.00E-02
3035	479353.24, 3850393.52	4.16E-02	5.19E-03	3.22E-02	8.01E-04	3.39E-05	3.74E-04	9.76E-08	0.08019282	2.66E-02	5.19E-03	3.22E-02	8.01E-04	3.39E-05	4.85E-05	3.74E-04	6.53E-02
3036	479403.24, 3850393.52	3.87E-02	4.81E-03	3.04E-02	8.06E-04	3.45E-05	3.72E-04	9.79E-08	0.07503712	2.47E-02	4.81E-03	3.04E-02	8.06E-04	3.45E-05	4.97E-05	3.72E-04	6.11E-02
3037	479453.24, 3850393.52	3.62E-02	4.47E-03	2.87E-02	8.08E-04	3.50E-05	3.68E-04	9.79E-08	0.07053451	2.31E-02	4.47E-03	2.87E-02	8.08E-04	3.50E-05	5.10E-05	3.68E-04	5.75E-02
3038	479503.24, 3850393.52	3.40E-02	4.17E-03	2.70E-02	8.06E-04	3.55E-05	3.63E-04	9.79E-08	0.06641527	2.17E-02	4.17E-03	2.70E-02	8.06E-04	3.55E-05	5.24E-05	3.63E-04	5.41E-02
3039	479303.24, 3850443.52	6.69E-02	6.87E-03	4.03E-02	7.96E-04	3.33E-05	3.82E-04	9.80E-08	0.11528491	4.10E-02	6.87E-03	4.03E-02	7.96E-04	3.33E-05	4.77E-05	3.82E-04	8.94E-02
3040	479353.24, 3850443.52	5.79E-02	6.21E-03	3.73E-02	8.04E-04	3.38E-05	3.79E-04	9.81E-08	0.10263182	3.58E-02	6.21E-03	3.73E-02	8.04E-04	3.38E-05	4.79E-05	3.79E-04	8.06E-02
3041	479403.24, 3850443.52	5.13E-02	5.66E-03	3.48E-02	8.11E-04	3.43E-05	3.75E-04	9.81E-08	0.09294641	3.19E-02	5.66E-03	3.48E-02	8.11E-04	3.43E-05	4.89E-05	3.75E-04	7.36E-02
3042	479453.24, 3850443.52	4.64E-02	5.19E-03	3.25E-02	8.14E-04	3.48E-05	3.72E-04	9.83E-08	0.08522689	2.89E-02	5.19E-03	3.25E-02	8.14E-04	3.48E-05	5.01E-05	3.72E-04	6.78E-02
3043	479503.24, 3850443.52	4.25E-02	4.78E-03	3.03E-02	8.15E-04	3.53E-05	3.67E-04	9.83E-08	0.07876527	2.65E-02	4.78E-03	3.03E-02	8.15E-04	3.53E-05	5.14E-05	3.67E-04	6.29E-02
3044	480327.18, 3850987.04	5.00E-02	8.39E-03	4.83E-02	9.75E-04	4.67E-05	4.38E-04	1.15E-07	0.10814664	3.46E-02	8.39E-03	4.83E-02	9.75E-04	4.67E-05	7.12E-05	4.38E-04	9.28E-02
3045	480377.18, 3850987.04	4.46E-02	7.41E-03	4.40E-02	9.67E-04	4.73E-05	4.37E-04	1.16E-07	0.0973869	3.07E-02	7.41E-03	4.40E-02	9.67E-04	4.73E-05	7.33E-05	4.37E-04	8.36E-02
3046	480427.18, 3850987.04	4.03E-02	6.62E-03	4.03E-02	9.58E-04	4.79E-05	4.35E-04	1.17E-07	0.08870991	2.77E-02	6.62E-03	4.03E-02	9.58E-04	4.79E-05	7.53E-05	4.35E-04	7.62E-02
3047	480477.18, 3850987.04	3.69E-02	5.96E-03	3.72E-02	9.47E-04	4.84E-05	4.32E-04	1.18E-07	0.0814554	2.52E-02	5.96E-03	3.72E-02	9.47E-04	4.84E-05	7.72E-05	4.32E-04	6.99E-02
3048	480327.18, 3851037.04	6.75E-02	1.15E-02	6.22E-02	9.97E-04	4.67E-05	4.45E-04	1.16E-07	0.14267746	4.69E-02	1.15E-02	6.22E-02	9.97E-04	4.67E-05	7.01E-05	4.45E-04	1.22E-01
3049	480377.18, 3851037.04	5.71E-02	9.75E-03	5.50E-02	9.91E-04	4.74E-05	4.43E-04	1.17E-07	0.12331933	3.97E-02	9.75E-03	5.50E-02	9.91E-04	4.74E-05	7.23E-05	4.43E-04	1.06E-01
3050	480427.18, 3851037.04	4.97E-02	8.43E-03	4.92E-02	9.82E-04	4.81E-05	4.41E-04	1.17E-07	0.10881862	3.45E-02	8.43E-03	4.92E-02	9.82E-04	4.81E-05	7.44E-05	4.41E-04	9.37E-02
3051	480477.18, 3851037.04	4.42E-02	7.41E-03	4.45E-02	9.74E-04	4.87E-05	4.41E-04	1.18E-07	0.09751065	3.05E-02	7.41E-03	4.45E-02	9.74E-04	4.87E-05	7.64E-05	4.41E-04	8.39E-02
3052	480622.06, 3851087.39	4.01E-02	6.68E-03	4.12E-02	9.73E-04	5.06E-05	4.47E-04	1.21E-07	0.08941362	2.76E-02	6.68E-03	4.12E-02	9.73E-04	5.06E-05	8.13E-05	4.47E-04	7.70E-02
3053	480672.06, 3851087.39	3.66E-02	6.03E-03	3.78E-02	9.64E-04	5.11E-05	4.47E-04	1.22E-07	0.08193277	2.51E-02	6.03E-03	3.78E-02	9.64E-04	5.11E-05	8.31E-05	4.47E-04	7.06E-02
3054	480622.06, 3851137.39	5.03E-02	8.59E-03	5.07E-02	1.00E-03	5.09E-05	4.56E-04	1.22E-07	0.11108698	3.49E-02	8.59E-03	5.07E-02	1.00E-03	5.09E-05	8.07E-05	4.56E-04	9.58E-02
3055	480672.06, 3851137.39	4.45E-02	7.53E-03	4.56E-02	9.92E-04	5.15E-05	4.56E-04	1.23E-07	0.09909781	3.08E-02	7.53E-03	4.56E-02	9.92E-04	5.15E-05	8.26E-05	4.56E-04	8.55E-02
3056	480722.06, 3851137.39	4.01E-02	6.71E-03	4.15E-02	9.83E-04	5.20E-05	4.56E-04	1.24E-07	0.08979376	2.77E-02	6.71E-03	4.15E-02	9.83E-04	5.20E-05	8.44E-05	4.56E-04	7.75E-02
3057	480622.06, 3851187.39	6.99E-02	1.20E-02	6.70E-02	1.03E-03	5.12E-05	4.64E-04	1.22E-07	0.15043917	4.86E-02	1.20E-02	6.70E-02	1.03E-03	5.12E-05	7.97E-05	4.64E-04	1.29E-01
3058	480672.06, 3851187.39	5.85E-02	1.01E-02	5.79E-02	1.02E-03	5.18E-05	4.65E-04	1.23E-07	0.12803125	4.07E-02	1.01E-02	5.79E-02	1.02E-03	5.18E-05	8.19E-05	4.65E-04	1.10E-01
3059	480722.06, 3851187.39	5.06E-02	8.65E-03	5.12E-02	1.01E-03	5.24E-05	4.66E-04	1.24E-07	0.1120117	3.51E-02	8.65E-03	5.12E-02	1.01E-03	5.24E-05	8.39E-05	4.66E-04	9.66E-02
3060	471363.09, 3845877.25	2.05E-03	3.08E-04	2.63E-04	1.29E-04	7.24E-06	8.63E-05	3.40E-08	0.00284112	1.37E-03	3.08E-04	2.63E-04	1.29E-04	7.24E-06	1.32E-05	8.63E-05	2.18E-03
3061	471863.09, 3845877.25	2.06E-03	3.07E-04	2.55E-04	1.21E-04	6.94E-06	8.34E-05	3.27E-08	0.00283198	1.38E-03	3.07E-04	2.55E-04	1.21E-04	6.94E-06	1.27E-05	8.34E-05	2.16E-03
3062	472363.09, 3845877.25	2.20E-03	3.53E-04	3.30E-04	1.26E-04	7.55E-06	9.09E-05	3.55E-08	0.00310478	1.50E-03	3.53E-04	3.30E-04	1.26E-04	7.55E-06	1.36E-05	9.09E-05	2.42E-03
3063	472863.09, 3845877.25	2.13E-03	3.41E-04	2.49E-04	1.06E-04	6.36E-06	8.39E-05	3.14E-08	0.0029124	1.45E-03	3.41E-04	2.49E-04	1.06E-04	6.36E-06	1.17E-05	8.39E-05	2.25E-03
3064	473363.09, 3845877.25	2.13E-03	3.51E-04	2.61E-04	1.12E-04	6.21E-06	9.07E-05	3.18E-08	0.00295454	1.46E-03	3.51E-04	2.61E-04	1.12E-04	6.21E-06	1.10E-05	9.07E-05	2.30E-03
3065	473863.09, 3845877.25	2.12E-03	3.56E-04	2.73E-04	1.22E-04	6.51E-06	9.86E-05	3.27E-08	0.0029758	1.46E-03	3.56E-04	2.73E-04	1.22E-04	6.51E-06	1.17E-05	9.86E-05	2.33E-03
3066	474363.09, 3845877.25	2.14E-03	3.78E-04	3.18E-04	1.58E-04	7.71E-06	1.11E-04	3.57E-08	0.00311525	1.50E-03	3.78E-04	3.18E-04	1.58E-04	7.71E-06	1.34E-05	1.11E-04	2.49E-03
3067	474863.09, 3845877.25	2.18E-03	3.89E-04	3.70E-04	1.99E-04	9.78E-06	1.19E-04	3.77E-08	0.00327109	1.53E-03	3.89E-04	3.70E-04	1.99E-04	9.78E-06	1.62E-05	1.19E-04	2.64E-03
3068	475363.09, 3845877.25	2.25E-03	3.92E-04	4.28E-04	2.19E-04	1.24E-05	1.28E-04	4.10E-08	0.00342883	1.57E-03	3.92E-04	4.28E-04	2.19E-04	1.24E-05	2.26E-05	1.28E-04	2.77E-03

3069	475863.09, 3845877.25	2.26E-03	3.83E-04	4.42E-04	2.14E-04	1.29E-05	1.25E-04	4.46E-08	0.00344048	1.57E-03	3.83E-04	4.42E-04	2.14E-04	1.29E-05	2.36E-05	1.25E-04	2.77E-03
3070	476363.09, 3845877.25	2.22E-03	3.64E-04	4.13E-04	1.85E-04	1.19E-05	1.14E-04	4.46E-08	0.00330651	1.52E-03	3.64E-04	4.13E-04	1.85E-04	1.19E-05	2.18E-05	1.14E-04	2.63E-03
3071	476863.09, 3845877.25	2.11E-03	3.44E-04	3.86E-04	1.60E-04	1.07E-05	1.05E-04	4.28E-08	0.00311735	1.44E-03	3.44E-04	3.86E-04	1.60E-04	1.07E-05	2.07E-05	1.05E-04	2.47E-03
3072	477363.09, 3845877.25	2.02E-03	3.26E-04	3.85E-04	1.44E-04	9.02E-06	9.82E-05	4.28E-08	0.00297953	1.38E-03	3.26E-04	3.85E-04	1.44E-04	9.02E-06	1.52E-05	9.82E-05	2.35E-03
3073	477863.09, 3845877.25	1.95E-03	3.06E-04	3.65E-04	1.30E-04	7.84E-06	9.23E-05	4.01E-08	0.00284593	1.32E-03	3.06E-04	3.65E-04	1.30E-04	7.84E-06	1.32E-05	9.23E-05	2.23E-03
3074	478363.09, 3845877.25	1.93E-03	2.93E-04	3.73E-04	1.22E-04	7.55E-06	9.06E-05	3.66E-08	0.00281772	1.30E-03	2.93E-04	3.73E-04	1.22E-04	7.55E-06	1.41E-05	9.06E-05	2.20E-03
3075	478863.09, 3845877.25	1.90E-03	2.83E-04	3.80E-04	1.17E-04	7.24E-06	8.38E-05	3.53E-08	0.00277346	1.27E-03	2.83E-04	3.80E-04	1.17E-04	7.24E-06	1.23E-05	8.38E-05	2.15E-03
3076	479363.09, 3845877.25	1.93E-03	2.77E-04	4.05E-04	1.15E-04	6.98E-06	8.20E-05	3.66E-08	0.00281513	1.27E-03	2.77E-04	4.05E-04	1.15E-04	6.98E-06	1.17E-05	8.20E-05	2.17E-03
3077	479863.09, 3845877.25	1.96E-03	2.66E-04	4.08E-04	1.07E-04	6.74E-06	8.10E-05	3.53E-08	0.00282656	1.28E-03	2.66E-04	4.08E-04	1.07E-04	6.74E-06	1.19E-05	8.10E-05	2.16E-03
3078	480363.09, 3845877.25	1.96E-03	2.49E-04	3.79E-04	9.50E-05	5.69E-06	7.65E-05	2.99E-08	0.00276089	1.25E-03	2.49E-04	3.79E-04	9.50E-05	5.69E-06	1.05E-05	7.65E-05	2.07E-03
3079	480863.09, 3845877.25	1.95E-03	2.37E-04	3.72E-04	8.84E-05	5.14E-06	7.15E-05	2.82E-08	0.00271961	1.24E-03	2.37E-04	3.72E-04	8.84E-05	5.14E-06	9.15E-06	7.15E-05	2.02E-03
3080	481363.09, 3845877.25	1.89E-03	2.28E-04	3.68E-04	8.27E-05	4.75E-06	6.84E-05	2.59E-08	0.00264681	1.20E-03	2.28E-04	3.68E-04	8.27E-05	4.75E-06	8.02E-06	6.84E-05	1.96E-03
3081	481863.09, 3845877.25	1.79E-03	2.17E-04	3.53E-04	7.75E-05	4.25E-06	6.63E-05	2.33E-08	0.00250618	1.13E-03	2.17E-04	3.53E-04	7.75E-05	4.25E-06	7.47E-06	6.63E-05	1.86E-03
3082	482363.09, 3845877.25	1.71E-03	2.06E-04	3.33E-04	7.09E-05	3.82E-06	6.45E-05	2.06E-08	0.00238488	1.08E-03	2.06E-04	3.33E-04	7.09E-05	3.82E-06	7.15E-06	6.45E-05	1.77E-03
3083	482863.09, 3845877.25	1.60E-03	1.84E-04	2.69E-04	6.05E-05	3.10E-06	5.96E-05	1.56E-08	0.00217458	1.00E-03	1.84E-04	2.69E-04	6.05E-05	3.10E-06	5.83E-06	5.96E-05	1.58E-03
3084	483363.09, 3845877.25	1.56E-03	1.73E-04	2.43E-04	5.54E-05	2.84E-06	5.71E-05	1.39E-08	0.00209129	9.69E-04	1.73E-04	2.43E-04	5.54E-05	2.84E-06	5.36E-06	5.71E-05	1.51E-03
3085	483863.09, 3845877.25	1.66E-03	1.86E-04	3.08E-04	6.11E-05	3.23E-06	6.21E-05	1.65E-08	0.00228235	1.03E-03	1.86E-04	3.08E-04	6.11E-05	3.23E-06	6.12E-06	6.21E-05	1.66E-03
3086	484363.09, 3845877.25	1.64E-03	1.84E-04	3.14E-04	6.02E-05	3.17E-06	6.23E-05	1.65E-08	0.00226725	1.02E-03	1.84E-04	3.14E-04	6.02E-05	3.17E-06	5.99E-06	6.23E-05	1.65E-03
3087	484863.09, 3845877.25	1.61E-03	1.80E-04	3.08E-04	5.73E-05	3.01E-06	6.07E-05	1.61E-08	0.00221431	1.00E-03	1.80E-04	3.08E-04	5.73E-05	3.01E-06	5.83E-06	6.07E-05	1.61E-03
3088	485363.09, 3845877.25	1.56E-03	1.74E-04	2.95E-04	5.43E-05	2.84E-06	5.76E-05	1.54E-08	0.00214432	9.70E-04	1.74E-04	2.95E-04	5.43E-05	2.84E-06	5.52E-06	5.76E-05	1.56E-03
3089	485863.09, 3845877.25	1.57E-03	1.73E-04	3.05E-04	5.37E-05	2.78E-06	5.53E-05	1.52E-08	0.0021629	9.76E-04	1.73E-04	3.05E-04	5.37E-05	2.78E-06	5.23E-06	5.53E-05	1.57E-03
3090	486363.09, 3845877.25	1.58E-03	1.71E-04	3.01E-04	5.20E-05	2.65E-06	5.38E-05	1.50E-08	0.00216151	9.77E-04	1.71E-04	3.01E-04	5.20E-05	2.65E-06	5.07E-06	5.38E-05	1.56E-03
3091	486863.09, 3845877.25	1.55E-03	1.64E-04	2.81E-04	4.89E-05	2.46E-06	5.10E-05	1.44E-08	0.00209934	9.54E-04	1.64E-04	2.81E-04	4.89E-05	2.46E-06	4.65E-06	5.10E-05	1.51E-03
3092	487363.09, 3845877.25	1.56E-03	1.62E-04	2.78E-04	4.78E-05	2.40E-06	4.89E-05	1.44E-08	0.00209833	9.55E-04	1.62E-04	2.78E-04	4.78E-05	2.40E-06	4.53E-06	4.89E-05	1.50E-03
3093	487863.09, 3845877.25	1.53E-03	1.56E-04	2.60E-04	4.56E-05	2.24E-06	4.70E-05	1.37E-08	0.00204304	9.35E-04	1.56E-04	2.60E-04	4.56E-05	2.24E-06	4.34E-06	4.70E-05	1.45E-03
3094	488363.09, 3845877.25	1.53E-03	1.53E-04	2.52E-04	4.48E-05	2.16E-06	4.67E-05	1.26E-08	0.00202405	9.28E-04	1.53E-04	2.52E-04	4.48E-05	2.16E-06	4.27E-06	4.67E-05	1.43E-03
3095	488863.09, 3845877.25	1.60E-03	1.60E-04	2.91E-04	4.81E-05	2.38E-06	5.13E-05	1.37E-08	0.00215064	9.72E-04	1.60E-04	2.91E-04	4.81E-05	2.38E-06	4.64E-06	5.13E-05	1.53E-03
3096	489363.09, 3845877.25	1.61E-03	1.58E-04	2.90E-04	4.87E-05	2.38E-06	5.13E-05	1.35E-08	0.00215668	9.74E-04	1.58E-04	2.90E-04	4.87E-05	2.38E-06	4.65E-06	5.13E-05	1.53E-03
3097	489863.09, 3845877.25	1.57E-03	1.53E-04	2.70E-04	4.82E-05	2.28E-06	5.13E-05	1.30E-08	0.00209161	9.49E-04	1.53E-04	2.70E-04	4.82E-05	2.28E-06	4.58E-06	5.13E-05	1.48E-03
3098	490363.09, 3845877.25	1.54E-03	1.46E-04	2.43E-04	4.70E-05	2.16E-06	4.91E-05	1.18E-08	0.00202207	9.24E-04	1.46E-04	2.43E-04	4.70E-05	2.16E-06	4.33E-06	4.91E-05	1.42E-03
3099	490863.09, 3845877.25	1.47E-03	1.32E-04	1.95E-04	4.42E-05	1.95E-06	4.59E-05	1.00E-08	0.00189368	8.77E-04	1.32E-04	1.95E-04	4.42E-05	1.95E-06	4.02E-06	4.59E-05	1.30E-03
3100	491363.09, 3845877.25	1.53E-03	1.38E-04	2.20E-04	4.76E-05	2.14E-06	4.85E-05	1.04E-08	0.0019882	9.14E-04	1.38E-04	2.20E-04	4.76E-05	2.14E-06	4.25E-06	4.85E-05	1.37E-03
3101	491863.09, 3845877.25	1.58E-03	1.41E-04	2.34E-04	5.03E-05	2.30E-06	5.09E-05	1.07E-08	0.0020576	9.40E-04	1.41E-04	2.34E-04	5.03E-05	2.30E-06	4.53E-06	5.09E-05	1.42E-03
3102	492363.09, 3845877.25	1.53E-03	1.31E-04	1.99E-04	4.83E-05	2.17E-06	4.97E-05	9.89E-09	0.00195753	9.02E-04	1.31E-04	1.99E-04	4.83E-05	2.17E-06	4.52E-06	4.97E-05	1.34E-03
3103	492863.09, 3845877.25	1.62E-03	1.40E-04	2.42E-04	5.45E-05	2.48E-06	5.48E-05	1.11E-08	0.00211196	9.57E-04	1.40E-04	2.42E-04	5.45E-05	2.48E-06	5.13E-06	5.48E-05	1.46E-03
3104	493363.09, 3845877.25	1.66E-03	1.43E-04	2.56E-04	5.82E-05	2.69E-06	5.66E-05	1.16E-08	0.00218103	9.83E-04	1.43E-04	2.56E-04	5.82E-05	2.69E-06	5.44E-06	5.66E-05	1.50E-03
3105	493863.09, 3845877.25	1.71E-03	1.44E-04	2.69E-04	6.22E-05	2.92E-06	5.81E-05	1.16E-08	0.00224734	1.01E-03	1.44E-04	2.69E-04	6.22E-05	2.92E-06	5.81E-06	5.81E-05	1.55E-03
3106	494363.09, 3845877.25	1.75E-03	1.45E-04	2.77E-04	6.63E-05	3.12E-06	5.94E-05	1.18E-08	0.00230495	1.03E-03	1.45E-04	2.77E-04	6.63E-05	3.12E-06	6.25E-06	5.94E-05	1.59E-03
3107	494863.09, 3845877.25	1.78E-03	1.45E-04	2.80E-04	6.99E-05	3.30E-06	6.06E-05	1.22E-08	0.00233966	1.04E-03	1.45E-04	2.80E-04	6.99E-05	3.30E-06	6.48E-06	6.06E-05	1.61E-03
3108	495363.09, 3845877.25	1.81E-03	1.46E-04	2.87E-04	7.46E-05	3.54E-06	6.38E-05	1.24E-08	0.00238582	1.06E-03	1.46E-04	2.87E-04	7.46E-05	3.54E-06	6.89E-06	6.38E-05	1.64E-03
3109	495863.09, 3845877.25	1.85E-03	1.47E-04	2.96E-04	8.04E-05	3.80E-06	6.66E-05	1.25E-08	0.00244699	1.08E-03	1.47E-04	2.96E-04	8.04E-05	3.80E-06	7.27E-06	6.66E-05	1.68E-03
3110	496363.09, 3845877.25	1.90E-03	1.48E-04	3.03E-04	8.64E-05	4.09E-06	6.97E-05	1.28E-08	0.00250856	1.10E-03	1.48E-04	3.03E-04	8.64E-05	4.09E-06	7.58E-06	6.97E-05	1.72E-03
3111	496863.09, 3845877.25	1.92E-03	1.47E-04	3.02E-04	9.09E-05	4.32E-06	7.33E-05	1.24E-08	0.0025424	1.11E-03	1.47E-04	3.02E-04	9.09E-05	4.32E-06	7.81E-06	7.33E-05	1.74E-03
3112	497363.09, 3845877.25	1.95E-03	1.47E-04	3.02E-04	9.58E-05	4.53E-06	7.71E-05	1.30E-08	0.00257893	1.13E-03	1.47E-04	3.02E-04	9.58E-05	4.53E-06	8.21E-06	7.71E-05	1.76E-03
3113	497863.09, 3845877.25	1.99E-03	1.46E-04	3.03E-04	1.01E-04	4.81E-06	8.16E-05	1.39E-08	0.00262926	1.15E-03	1.46E-04	3.03E-04	1.01E-04	4.81E-06	8.71E-06	8.16E-05	1.79E-03
3114	498363.09, 3845877.25	2.03E-03	1.46E-04	3.01E-04	1.06E-04	5.08E-06	8.62E-05	1.39E-08	0.00267643	1.17E-03	1.46E-04	3.01E-04	1.06E-04	5.08E-06	9.18E-06	8.62E-05	1.82E-03
3115	471363.09, 3846377.25	1.48E-02	5.66E-03	6.63E-04	2.08E-04	1.09E-05	1.30E-04	4.80E-08	0.02151732	1.41E-02	5.66E-03	6.63E-04	2.08E-04	1.09E-05	1.86E-05	1.30E-04	2.08E-02
3116	471863.09, 3846377.25	1.27E-02	4.78E-03	5.94E-04	1.87E-04	1.01E-05	1.15E-04	4.52E-08	0.01843346	1.20E-02	4.78E-03	5.94E-04	1.87E-04	1.01E-05	1.77E-05	1.15E-04	1.77E-02
3117	472363.09, 3846377.25	4.85E-03	1.45E-03	3.12E-04	1.32E-04	7.52E-06	8.85E-05	3.47E-08	0.00684806	4.13E-03	1.45E-03	3.12E-04	1.32E-04	7.52E-06	1.38E-05	8.85E-05	6.14E-03
3118	472863.09, 3846377.25	3.82E-03	1.01E-03	3.50E-04	1.29E-04	7.61E-06	9.08E-05	3.55E-08	0.00540219	3.08E-03	1.01E-03	3.50E-04	1.29E-04	7.61E-06	1.37E-05	9.08E-05	4.68E-03
3119	473363.09, 3846377.25	3.31E-03	7.95E-04	3.51E-04	1.23E-04	7.51E-06	9.48E-05	3.59E-08	0.0046811	2.58E-03	7.95E-04	3.51E-04	1.23E-04	7.51E-06	1.37E-05	9.48E-05	3.96E-03
3120	473863.09, 3846377.25	3.10E-03	7.13E-04	4.03E-04	1.34E-04	7.57E-06	1.07E-04	3.72E-08	0.00446549	2.37E-03	7.13E-04	4.03E-04	1.34E-04	7.57E-06	1.33E-05	1.07E-04	3.75E-03
3121	474363.09, 3846377.25	2.91E-03	6.46E-04	4.25E-04	1.50E-04	7.89E-06	1.18E-04	3.81E-08	0.00425944	2.20E-03	6.46E-04	4.25E-04	1.50E-04	7.89E-06	1.38E-05	1.18E-04	3.56E-03
3122	474863.09, 3846377.25	2.81E-03	6.07E-04	4.83E-04	1.92E-04	9.15E-06	1.30E-04	4.07E-08	0.00422808	2.10E-03	6.07E-04	4.83E-04	1.92E-04	9.15E-06	1.57E-05	1.30E-04	3.54E-03

3123	475363.09, 3846377.25	2.71E-03	5.63E-04	5.52E-04	2.35E-04	1.14E-05	1.35E-04	4.24E-08	0.00420298	2.00E-03	5.63E-04	5.52E-04	2.35E-04	1.14E-05	1.86E-05	1.35E-04	3.52E-03
3124	475863.09, 3846377.25	2.67E-03	5.30E-04	6.37E-04	2.54E-04	1.41E-05	1.44E-04	4.55E-08	0.00424897	1.94E-03	5.30E-04	6.37E-04	2.54E-04	1.41E-05	2.57E-05	1.44E-04	3.55E-03
3125	476363.09, 3846377.25	2.61E-03	4.87E-04	6.27E-04	2.32E-04	1.42E-05	1.35E-04	4.80E-08	0.00410159	1.86E-03	4.87E-04	6.27E-04	2.32E-04	1.42E-05	2.58E-05	1.35E-04	3.38E-03
3126	476863.09, 3846377.25	2.51E-03	4.51E-04	6.20E-04	1.99E-04	1.31E-05	1.21E-04	4.81E-08	0.00391039	1.77E-03	4.51E-04	6.20E-04	1.99E-04	1.31E-05	2.41E-05	1.21E-04	3.20E-03
3127	477363.09, 3846377.25	2.37E-03	4.20E-04	6.23E-04	1.76E-04	1.18E-05	1.14E-04	4.67E-08	0.00371941	1.66E-03	4.20E-04	6.23E-04	1.76E-04	1.18E-05	2.24E-05	1.14E-04	3.03E-03
3128	477863.09, 3846377.25	2.26E-03	3.87E-04	6.02E-04	1.53E-04	9.60E-06	1.04E-04	4.57E-08	0.00351486	1.57E-03	3.87E-04	6.02E-04	1.53E-04	9.60E-06	1.58E-05	1.04E-04	2.84E-03
3129	478363.09, 3846377.25	2.21E-03	3.63E-04	5.95E-04	1.42E-04	8.68E-06	1.00E-04	4.29E-08	0.0034149	1.51E-03	3.63E-04	5.95E-04	1.42E-04	8.68E-06	1.50E-05	1.00E-04	2.74E-03
3130	478863.09, 3846377.25	2.19E-03	3.49E-04	6.22E-04	1.42E-04	8.68E-06	9.83E-05	4.05E-08	0.00340592	1.49E-03	3.49E-04	6.22E-04	1.42E-04	8.68E-06	1.58E-05	9.83E-05	2.72E-03
3131	479363.09, 3846377.25	2.16E-03	3.34E-04	6.29E-04	1.34E-04	8.33E-06	9.17E-05	3.97E-08	0.00335631	1.46E-03	3.34E-04	6.29E-04	1.34E-04	8.33E-06	1.38E-05	9.17E-05	2.67E-03
3132	479863.09, 3846377.25	2.16E-03	3.16E-04	6.12E-04	1.22E-04	7.53E-06	8.70E-05	3.88E-08	0.00330256	1.43E-03	3.16E-04	6.12E-04	1.22E-04	7.53E-06	1.28E-05	8.70E-05	2.59E-03
3133	480363.09, 3846377.25	2.21E-03	3.05E-04	6.20E-04	1.17E-04	7.38E-06	8.87E-05	3.75E-08	0.00335255	1.45E-03	3.05E-04	6.20E-04	1.17E-04	7.38E-06	1.34E-05	8.87E-05	2.60E-03
3134	480863.09, 3846377.25	2.17E-03	2.81E-04	5.58E-04	1.02E-04	6.05E-06	8.01E-05	3.18E-08	0.00319788	1.40E-03	2.81E-04	5.58E-04	1.02E-04	6.05E-06	1.09E-05	8.01E-05	2.44E-03
3135	481363.09, 3846377.25	2.14E-03	2.69E-04	5.52E-04	9.59E-05	5.69E-06	7.60E-05	3.10E-08	0.00314336	1.37E-03	2.69E-04	5.52E-04	9.59E-05	5.69E-06	9.76E-06	7.60E-05	2.38E-03
3136	481863.09, 3846377.25	2.05E-03	2.55E-04	5.21E-04	8.91E-05	5.06E-06	7.26E-05	2.75E-08	0.00299667	1.31E-03	2.55E-04	5.21E-04	8.91E-05	5.06E-06	8.44E-06	7.26E-05	2.26E-03
3137	482363.09, 3846377.25	1.92E-03	2.39E-04	4.75E-04	7.98E-05	4.36E-06	6.94E-05	2.38E-08	0.00278877	1.22E-03	2.39E-04	4.75E-04	7.98E-05	4.36E-06	7.97E-06	6.94E-05	2.10E-03
3138	482863.09, 3846377.25	1.82E-03	2.18E-04	4.05E-04	6.95E-05	3.69E-06	6.51E-05	1.91E-08	0.00257897	1.15E-03	2.18E-04	4.05E-04	6.95E-05	3.69E-06	6.80E-06	6.51E-05	1.92E-03
3139	483363.09, 3846377.25	1.85E-03	2.19E-04	4.31E-04	7.06E-05	3.88E-06	6.65E-05	1.91E-08	0.00264034	1.17E-03	2.19E-04	4.31E-04	7.06E-05	3.88E-06	7.00E-06	6.65E-05	1.96E-03
3140	483863.09, 3846377.25	1.85E-03	2.14E-04	4.28E-04	6.86E-05	3.71E-06	6.69E-05	1.86E-08	0.00263065	1.16E-03	2.14E-04	4.28E-04	6.86E-05	3.71E-06	6.87E-06	6.69E-05	1.95E-03
3141	484363.09, 3846377.25	1.78E-03	2.02E-04	3.92E-04	6.32E-05	3.31E-06	6.51E-05	1.72E-08	0.00250654	1.11E-03	2.02E-04	3.92E-04	6.32E-05	3.31E-06	6.30E-06	6.51E-05	1.84E-03
3142	484863.09, 3846377.25	1.81E-03	2.07E-04	4.34E-04	6.57E-05	3.55E-06	6.69E-05	1.86E-08	0.00258346	1.13E-03	2.07E-04	4.34E-04	6.57E-05	3.55E-06	6.71E-06	6.69E-05	1.91E-03
3143	485363.09, 3846377.25	1.80E-03	2.04E-04	4.34E-04	6.41E-05	3.47E-06	6.51E-05	1.85E-08	0.00257022	1.12E-03	2.04E-04	4.34E-04	6.41E-05	3.47E-06	6.55E-06	6.51E-05	1.90E-03
3144	485863.09, 3846377.25	1.75E-03	1.96E-04	4.05E-04	5.99E-05	3.14E-06	6.01E-05	1.69E-08	0.00247377	1.09E-03	1.96E-04	4.05E-04	5.99E-05	3.14E-06	5.85E-06	6.01E-05	1.82E-03
3145	486363.09, 3846377.25	1.67E-03	1.81E-04	3.41E-04	5.31E-05	2.66E-06	5.51E-05	1.50E-08	0.00230616	1.03E-03	1.81E-04	3.41E-04	5.31E-05	2.66E-06	5.05E-06	5.51E-05	1.67E-03
3146	486863.09, 3846377.25	1.66E-03	1.75E-04	3.24E-04	5.06E-05	2.54E-06	5.30E-05	1.47E-08	0.00226511	1.02E-03	1.75E-04	3.24E-04	5.06E-05	2.54E-06	4.81E-06	5.30E-05	1.63E-03
3147	487363.09, 3846377.25	1.69E-03	1.76E-04	3.35E-04	5.08E-05	2.56E-06	5.17E-05	1.52E-08	0.00230541	1.04E-03	1.76E-04	3.35E-04	5.08E-05	2.56E-06	4.84E-06	5.17E-05	1.66E-03
3148	487863.09, 3846377.25	1.75E-03	1.82E-04	3.74E-04	5.39E-05	2.74E-06	5.34E-05	1.61E-08	0.00241132	1.07E-03	1.82E-04	3.74E-04	5.39E-05	2.74E-06	5.18E-06	5.34E-05	1.74E-03
3149	488363.09, 3846377.25	1.75E-03	1.78E-04	3.65E-04	5.29E-05	2.66E-06	5.43E-05	1.52E-08	0.00240287	1.07E-03	1.78E-04	3.65E-04	5.29E-05	2.66E-06	5.16E-06	5.43E-05	1.73E-03
3150	488863.09, 3846377.25	1.74E-03	1.75E-04	3.61E-04	5.35E-05	2.66E-06	5.52E-05	1.48E-08	0.00239062	1.06E-03	1.75E-04	3.61E-04	5.35E-05	2.66E-06	5.03E-06	5.52E-05	1.71E-03
3151	489363.09, 3846377.25	1.74E-03	1.73E-04	3.54E-04	5.40E-05	2.61E-06	5.60E-05	1.46E-08	0.00237516	1.05E-03	1.73E-04	3.54E-04	5.40E-05	2.61E-06	5.08E-06	5.60E-05	1.70E-03
3152	489863.09, 3846377.25	1.72E-03	1.67E-04	3.30E-04	5.33E-05	2.52E-06	5.55E-05	1.41E-08	0.00233026	1.04E-03	1.67E-04	3.30E-04	5.33E-05	2.52E-06	5.00E-06	5.55E-05	1.65E-03
3153	490363.09, 3846377.25	1.63E-03	1.53E-04	2.67E-04	4.99E-05	2.27E-06	5.10E-05	1.21E-08	0.00215684	9.80E-04	1.53E-04	2.67E-04	4.99E-05	2.27E-06	4.53E-06	5.10E-05	1.51E-03
3154	490863.09, 3846377.25	1.62E-03	1.46E-04	2.43E-04	4.93E-05	2.22E-06	5.01E-05	1.12E-08	0.00210931	9.65E-04	1.46E-04	2.43E-04	4.93E-05	2.22E-06	4.41E-06	5.01E-05	1.46E-03
3155	491363.09, 3846377.25	1.63E-03	1.44E-04	2.38E-04	5.04E-05	2.28E-06	5.07E-05	1.07E-08	0.00211133	9.66E-04	1.44E-04	2.38E-04	5.04E-05	2.28E-06	4.49E-06	5.07E-05	1.45E-03
3156	491863.09, 3846377.25	1.72E-03	1.51E-04	2.76E-04	5.58E-05	2.55E-06	5.56E-05	1.15E-08	0.00225656	1.02E-03	1.51E-04	2.76E-04	5.58E-05	2.55E-06	5.10E-06	5.56E-05	1.57E-03
3157	492363.09, 3846377.25	1.70E-03	1.48E-04	2.64E-04	5.68E-05	2.58E-06	5.65E-05	1.13E-08	0.00223263	1.01E-03	1.48E-04	2.64E-04	5.68E-05	2.58E-06	5.26E-06	5.65E-05	1.54E-03
3158	492863.09, 3846377.25	1.73E-03	1.47E-04	2.66E-04	5.90E-05	2.71E-06	5.78E-05	1.16E-08	0.00226536	1.02E-03	1.47E-04	2.66E-04	5.90E-05	2.71E-06	5.48E-06	5.78E-05	1.56E-03
3159	493363.09, 3846377.25	1.80E-03	1.52E-04	2.93E-04	6.50E-05	3.02E-06	6.04E-05	1.22E-08	0.0023731	1.06E-03	1.52E-04	2.93E-04	6.50E-05	3.02E-06	5.97E-06	6.04E-05	1.64E-03
3160	493863.09, 3846377.25	1.86E-03	1.54E-04	3.05E-04	6.97E-05	3.28E-06	6.20E-05	1.21E-08	0.00244922	1.09E-03	1.54E-04	3.05E-04	6.97E-05	3.28E-06	6.41E-06	6.20E-05	1.69E-03
3161	494363.09, 3846377.25	1.88E-03	1.54E-04	3.13E-04	7.46E-05	3.52E-06	6.35E-05	1.26E-08	0.00249142	1.10E-03	1.54E-04	3.13E-04	7.46E-05	3.52E-06	6.86E-06	6.35E-05	1.72E-03
3162	494863.09, 3846377.25	1.91E-03	1.54E-04	3.18E-04	7.97E-05	3.76E-06	6.65E-05	1.30E-08	0.00253502	1.12E-03	1.54E-04	3.18E-04	7.97E-05	3.76E-06	7.28E-06	6.65E-05	1.75E-03
3163	495363.09, 3846377.25	1.95E-03	1.54E-04	3.22E-04	8.53E-05	4.02E-06	6.93E-05	1.30E-08	0.00258884	1.14E-03	1.54E-04	3.22E-04	8.53E-05	4.02E-06	7.62E-06	6.93E-05	1.78E-03
3164	495863.09, 3846377.25	2.00E-03	1.55E-04	3.30E-04	9.20E-05	4.35E-06	7.30E-05	1.33E-08	0.00265243	1.16E-03	1.55E-04	3.30E-04	9.20E-05	4.35E-06	8.00E-06	7.30E-05	1.82E-03
3165	496363.09, 3846377.25	2.04E-03	1.56E-04	3.36E-04	9.88E-05	4.68E-06	7.73E-05	1.31E-08	0.0027152	1.18E-03	1.56E-04	3.36E-04	9.88E-05	4.68E-06	8.38E-06	7.73E-05	1.86E-03
3166	496863.09, 3846377.25	2.08E-03	1.56E-04	3.39E-04	1.05E-04	5.02E-06	8.20E-05	1.34E-08	0.00276963	1.20E-03	1.56E-04	3.39E-04	1.05E-04	5.02E-06	8.92E-06	8.20E-05	1.90E-03
3167	497363.09, 3846377.25	2.12E-03	1.55E-04	3.40E-04	1.12E-04	5.34E-06	8.74E-05	1.47E-08	0.00282446	1.22E-03	1.55E-04	3.40E-04	1.12E-04	5.34E-06	9.51E-06	8.74E-05	1.93E-03
3168	497863.09, 3846377.25	2.16E-03	1.54E-04	3.37E-04	1.18E-04	5.64E-06	9.25E-05	1.48E-08	0.0028717	1.24E-03	1.54E-04	3.37E-04	1.18E-04	5.64E-06	1.01E-05	9.25E-05	1.96E-03
3169	498363.09, 3846377.25	2.20E-03	1.53E-04	3.32E-04	1.23E-04	5.92E-06	9.78E-05	1.51E-08	0.00291254	1.26E-03	1.53E-04	3.32E-04	1.23E-04	5.92E-06	1.06E-05	9.78E-05	1.98E-03
3170	471363.09, 3846877.25	3.38E-03	7.77E-04	7.21E-04	2.28E-04	1.19E-05	1.47E-04	5.01E-08	0.00526346	2.59E-03	7.77E-04	7.21E-04	2.28E-04	1.19E-05	2.10E-05	1.47E-04	4.49E-03
3171	471863.09, 3846877.25	5.46E-03	1.65E-03	8.52E-04	2.29E-04	1.20E-05	1.44E-04	5.13E-08	0.00834321	4.66E-03	1.65E-03	8.52E-04	2.29E-04	1.20E-05	2.06E-05	1.44E-04	7.57E-03
3172	472363.09, 3846877.25	5.11E-02	2.09E-02	9.26E-04	2.17E-04	1.16E-05	1.32E-04	5.04E-08	0.07334958	5.03E-02	2.09E-02	9.26E-04	2.17E-04	1.16E-05	1.99E-05	1.32E-04	7.26E-02
3173	472863.09, 3846877.25	7.46E-03	2.51E-03	4.11E-04	1.42E-04	8.06E-06	9.33E-05	3.67E-08	0.0106203	6.68E-03	2.51E-03	4.11E-04	1.42E-04	8.06E-06	1.47E-05	9.33E-05	9.85E-03
3174	473363.09, 3846877.25	5.21E-03	1.55E-03	5.18E-04	1.49E-04	8.79E-06	1.00E-04	3.97E-08	0.00753821	4.42E-03	1.55E-03	5.18E-04	1.49E-04	8.79E-06	1.57E-05	1.00E-04	6.76E-03
3175	473863.09, 3846877.25	4.53E-03	1.25E-03	6.23E-04	1.53E-04	9.37E-06	1.13E-04	4.28E-08	0.00667687	3.72E-03	1.25E-03	6.23E-04	1.53E-04	9.37E-06	1.67E-05	1.13E-04	5.89E-03
3176	474363.09, 3846877.25	3.93E-03	1.00E-03	6.15E-04	1.55E-04	8.88E-06	1.22E-04	4.23E-08	0.00583248	3.13E-03	1.00E-03	6.15E-04	1.55E-04	8.88E-06	1.56E-05	1.22E-04	5.05E-03

3177	474863.09, 3846877.25	3.54E-03	8.53E-04	6.43E-04	1.70E-04	8.90E-06	1.32E-04	4.22E-08	0.00534856	2.76E-03	8.53E-04	6.43E-04	1.70E-04	8.90E-06	1.53E-05	1.32E-04	4.58E-03
3178	475363.09, 3846877.25	3.26E-03	7.44E-04	6.85E-04	2.03E-04	9.71E-06	1.36E-04	4.29E-08	0.00503367	2.49E-03	7.44E-04	6.85E-04	2.03E-04	9.71E-06	1.66E-05	1.36E-04	4.28E-03
3179	475863.09, 3846877.25	3.16E-03	6.99E-04	9.39E-04	2.65E-04	1.27E-05	1.48E-04	4.63E-08	0.00522852	2.39E-03	6.99E-04	9.39E-04	2.65E-04	1.27E-05	2.06E-05	1.48E-04	4.47E-03
3180	476363.09, 3846877.25	3.05E-03	6.38E-04	1.09E-03	2.79E-04	1.55E-05	1.54E-04	4.88E-08	0.00522671	2.26E-03	6.38E-04	1.09E-03	2.79E-04	1.55E-05	2.81E-05	1.54E-04	4.46E-03
3181	476863.09, 3846877.25	2.93E-03	5.78E-04	1.09E-03	2.52E-04	1.56E-05	1.45E-04	5.17E-08	0.00501617	2.13E-03	5.78E-04	1.09E-03	2.52E-04	1.56E-05	2.83E-05	1.45E-04	4.24E-03
3182	477363.09, 3846877.25	2.82E-03	5.31E-04	1.10E-03	2.18E-04	1.45E-05	1.31E-04	5.23E-08	0.00480752	2.01E-03	5.31E-04	1.10E-03	2.18E-04	1.45E-05	2.69E-05	1.31E-04	4.03E-03
3183	477863.09, 3846877.25	2.63E-03	4.84E-04	1.05E-03	1.88E-04	1.26E-05	1.22E-04	4.98E-08	0.00449231	1.87E-03	4.84E-04	1.05E-03	1.88E-04	1.26E-05	2.35E-05	1.22E-04	3.75E-03
3184	478363.09, 3846877.25	2.54E-03	4.49E-04	1.03E-03	1.71E-04	1.07E-05	1.14E-04	5.02E-08	0.00431816	1.78E-03	4.49E-04	1.03E-03	1.71E-04	1.07E-05	1.73E-05	1.14E-04	3.57E-03
3185	478863.09, 3846877.25	2.51E-03	4.25E-04	1.04E-03	1.68E-04	1.03E-05	1.15E-04	4.88E-08	0.00426528	1.74E-03	4.25E-04	1.04E-03	1.68E-04	1.03E-05	1.83E-05	1.15E-04	3.51E-03
3186	479363.09, 3846877.25	2.44E-03	3.99E-04	1.00E-03	1.59E-04	9.88E-06	1.05E-04	4.42E-08	0.00411284	1.67E-03	3.99E-04	1.00E-03	1.59E-04	9.88E-06	1.72E-05	1.05E-04	3.36E-03
3187	479863.09, 3846877.25	2.32E-03	3.54E-04	8.41E-04	1.25E-04	7.71E-06	8.90E-05	3.80E-08	0.00373573	1.56E-03	3.54E-04	8.41E-04	1.25E-04	7.71E-06	1.30E-05	8.90E-05	2.99E-03
3188	480363.09, 3846877.25	2.29E-03	3.23E-04	7.49E-04	1.07E-04	6.48E-06	8.29E-05	3.40E-08	0.00355438	1.51E-03	3.23E-04	7.49E-04	1.07E-04	6.48E-06	1.14E-05	8.29E-05	2.78E-03
3189	480863.09, 3846877.25	2.29E-03	3.04E-04	7.11E-04	1.00E-04	5.87E-06	7.99E-05	3.06E-08	0.00349566	1.49E-03	3.04E-04	7.11E-04	1.00E-04	5.87E-06	1.08E-05	7.99E-05	2.70E-03
3190	481363.09, 3846877.25	2.34E-03	3.00E-04	7.39E-04	1.01E-04	5.96E-06	7.96E-05	3.15E-08	0.00356706	1.50E-03	3.00E-04	7.39E-04	1.01E-04	5.96E-06	1.05E-05	7.96E-05	2.74E-03
3191	481863.09, 3846877.25	2.29E-03	2.89E-04	7.22E-04	9.77E-05	5.71E-06	7.77E-05	3.06E-08	0.00347809	1.46E-03	2.89E-04	7.22E-04	9.77E-05	5.71E-06	9.44E-06	7.77E-05	2.66E-03
3192	482363.09, 3846877.25	2.12E-03	2.66E-04	6.34E-04	8.58E-05	4.70E-06	7.27E-05	2.58E-08	0.00318694	1.36E-03	2.66E-04	6.34E-04	8.58E-05	4.70E-06	8.46E-06	7.27E-05	2.43E-03
3193	482863.09, 3846877.25	2.10E-03	2.57E-04	6.17E-04	8.29E-05	4.59E-06	7.22E-05	2.42E-08	0.00313554	1.33E-03	2.57E-04	6.17E-04	8.29E-05	4.59E-06	8.32E-06	7.22E-05	2.38E-03
3194	483363.09, 3846877.25	2.07E-03	2.49E-04	5.99E-04	8.00E-05	4.51E-06	7.20E-05	2.24E-08	0.00307489	1.31E-03	2.49E-04	5.99E-04	8.00E-05	4.51E-06	8.12E-06	7.20E-05	2.32E-03
3195	483863.09, 3846877.25	2.05E-03	2.42E-04	5.85E-04	7.73E-05	4.29E-06	7.22E-05	2.10E-08	0.00303523	1.29E-03	2.42E-04	5.85E-04	7.73E-05	4.29E-06	7.95E-06	7.22E-05	2.28E-03
3196	484363.09, 3846877.25	2.05E-03	2.39E-04	5.85E-04	7.47E-05	4.13E-06	7.27E-05	2.11E-08	0.00302254	1.29E-03	2.39E-04	5.85E-04	7.47E-05	4.13E-06	7.60E-06	7.27E-05	2.27E-03
3197	484863.09, 3846877.25	2.02E-03	2.31E-04	5.65E-04	7.19E-05	3.96E-06	7.19E-05	2.06E-08	0.00295939	1.26E-03	2.31E-04	5.65E-04	7.19E-05	3.96E-06	7.39E-06	7.19E-05	2.21E-03
3198	485363.09, 3846877.25	2.01E-03	2.28E-04	5.65E-04	7.10E-05	3.89E-06	7.04E-05	2.04E-08	0.00294449	1.25E-03	2.28E-04	5.65E-04	7.10E-05	3.89E-06	7.27E-06	7.04E-05	2.20E-03
3199	485863.09, 3846877.25	1.96E-03	2.19E-04	5.32E-04	6.72E-05	3.56E-06	6.57E-05	1.91E-08	0.00284479	1.22E-03	2.19E-04	5.32E-04	6.72E-05	3.56E-06	6.54E-06	6.57E-05	2.11E-03
3200	486363.09, 3846877.25	1.99E-03	2.20E-04	5.54E-04	6.76E-05	3.59E-06	6.49E-05	1.98E-08	0.0028958	1.23E-03	2.20E-04	5.54E-04	6.76E-05	3.59E-06	6.51E-06	6.49E-05	2.15E-03
3201	486863.09, 3846877.25	1.89E-03	2.04E-04	4.70E-04	6.04E-05	3.14E-06	5.99E-05	1.76E-08	0.0026889	1.17E-03	2.04E-04	4.70E-04	6.04E-05	3.14E-06	5.76E-06	5.99E-05	1.97E-03
3202	487363.09, 3846877.25	1.92E-03	2.03E-04	4.77E-04	6.02E-05	3.16E-06	5.83E-05	1.80E-08	0.00271948	1.18E-03	2.03E-04	4.77E-04	6.02E-05	3.16E-06	5.78E-06	5.83E-05	1.99E-03
3203	487863.09, 3846877.25	1.92E-03	1.99E-04	4.68E-04	5.95E-05	3.06E-06	5.76E-05	1.77E-08	0.00271166	1.18E-03	1.99E-04	4.68E-04	5.95E-05	3.06E-06	5.75E-06	5.76E-05	1.97E-03
3204	488363.09, 3846877.25	1.91E-03	1.94E-04	4.48E-04	5.87E-05	2.96E-06	5.80E-05	1.65E-08	0.00267299	1.16E-03	1.94E-04	4.48E-04	5.87E-05	2.96E-06	5.58E-06	5.80E-05	1.93E-03
3205	488863.09, 3846877.25	1.90E-03	1.91E-04	4.42E-04	5.97E-05	2.96E-06	5.92E-05	1.63E-08	0.00265929	1.16E-03	1.91E-04	4.42E-04	5.97E-05	2.96E-06	5.53E-06	5.92E-05	1.92E-03
3206	489363.09, 3846877.25	1.90E-03	1.88E-04	4.34E-04	6.07E-05	2.93E-06	6.08E-05	1.60E-08	0.00264443	1.15E-03	1.88E-04	4.34E-04	6.07E-05	2.93E-06	5.66E-06	6.08E-05	1.90E-03
3207	489863.09, 3846877.25	1.88E-03	1.82E-04	4.08E-04	6.02E-05	2.86E-06	6.13E-05	1.55E-08	0.00259565	1.14E-03	1.82E-04	4.08E-04	6.02E-05	2.86E-06	5.52E-06	6.13E-05	1.86E-03
3208	490363.09, 3846877.25	1.81E-03	1.69E-04	3.41E-04	5.68E-05	2.63E-06	5.73E-05	1.37E-08	0.00243777	1.09E-03	1.69E-04	3.41E-04	5.68E-05	2.63E-06	5.05E-06	5.73E-05	1.72E-03
3209	490863.09, 3846877.25	1.80E-03	1.63E-04	3.21E-04	5.75E-05	2.64E-06	5.62E-05	1.29E-08	0.00239889	1.07E-03	1.63E-04	3.21E-04	5.75E-05	2.64E-06	5.04E-06	5.62E-05	1.68E-03
3210	491363.09, 3846877.25	1.82E-03	1.62E-04	3.16E-04	5.90E-05	2.71E-06	5.75E-05	1.22E-08	0.0024185	1.08E-03	1.62E-04	3.16E-04	5.90E-05	2.71E-06	5.30E-06	5.75E-05	1.69E-03
3211	491863.09, 3846877.25	1.81E-03	1.56E-04	2.92E-04	5.93E-05	2.71E-06	5.82E-05	1.16E-08	0.00237591	1.07E-03	1.56E-04	2.92E-04	5.93E-05	2.71E-06	5.45E-06	5.82E-05	1.64E-03
3212	492363.09, 3846877.25	1.91E-03	1.63E-04	3.35E-04	6.63E-05	3.09E-06	6.32E-05	1.28E-08	0.00253867	1.13E-03	1.63E-04	3.35E-04	6.63E-05	3.09E-06	6.07E-06	6.32E-05	1.76E-03
3213	492863.09, 3846877.25	1.93E-03	1.63E-04	3.35E-04	6.97E-05	3.27E-06	6.42E-05	1.30E-08	0.00256758	1.14E-03	1.63E-04	3.35E-04	6.97E-05	3.27E-06	6.33E-06	6.42E-05	1.78E-03
3214	493363.09, 3846877.25	1.97E-03	1.63E-04	3.46E-04	7.50E-05	3.54E-06	6.62E-05	1.33E-08	0.00262784	1.16E-03	1.63E-04	3.46E-04	7.50E-05	3.54E-06	6.84E-06	6.62E-05	1.82E-03
3215	493863.09, 3846877.25	2.00E-03	1.63E-04	3.50E-04	8.00E-05	3.78E-06	6.76E-05	1.30E-08	0.00266584	1.17E-03	1.63E-04	3.50E-04	8.00E-05	3.78E-06	7.25E-06	6.76E-05	1.84E-03
3216	494363.09, 3846877.25	2.03E-03	1.62E-04	3.48E-04	8.49E-05	3.98E-06	6.95E-05	1.34E-08	0.00269487	1.18E-03	1.62E-04	3.48E-04	8.49E-05	3.98E-06	7.66E-06	6.95E-05	1.86E-03
3217	494863.09, 3846877.25	2.07E-03	1.61E-04	3.49E-04	9.07E-05	4.26E-06	7.24E-05	1.35E-08	0.00274354	1.20E-03	1.61E-04	3.49E-04	9.07E-05	4.26E-06	8.00E-06	7.24E-05	1.89E-03
3218	495363.09, 3846877.25	2.09E-03	1.60E-04	3.49E-04	9.68E-05	4.53E-06	7.56E-05	1.35E-08	0.0027782	1.21E-03	1.60E-04	3.49E-04	9.68E-05	4.53E-06	8.27E-06	7.56E-05	1.91E-03
3219	495863.09, 3846877.25	2.13E-03	1.60E-04	3.48E-04	1.03E-04	4.84E-06	7.93E-05	1.37E-08	0.00282797	1.23E-03	1.60E-04	3.48E-04	1.03E-04	4.84E-06	8.62E-06	7.93E-05	1.94E-03
3220	496363.09, 3846877.25	2.17E-03	1.59E-04	3.50E-04	1.10E-04	5.18E-06	8.44E-05	1.33E-08	0.00288357	1.25E-03	1.59E-04	3.50E-04	1.10E-04	5.18E-06	9.20E-06	8.44E-05	1.97E-03
3221	496863.09, 3846877.25	2.23E-03	1.60E-04	3.56E-04	1.18E-04	5.60E-06	9.03E-05	1.44E-08	0.00296322	1.28E-03	1.60E-04	3.56E-04	1.18E-04	5.60E-06	9.97E-06	9.03E-05	2.02E-03
3222	497363.09, 3846877.25	2.30E-03	1.61E-04	3.68E-04	1.28E-04	6.16E-06	9.81E-05	1.57E-08	0.00306578	1.32E-03	1.61E-04	3.68E-04	1.28E-04	6.16E-06	1.09E-05	9.81E-05	2.09E-03
3223	497863.09, 3846877.25	2.38E-03	1.62E-04	3.73E-04	1.38E-04	6.68E-06	1.06E-04	1.61E-08	0.00316092	1.35E-03	1.62E-04	3.73E-04	1.38E-04	6.68E-06	1.19E-05	1.06E-04	2.15E-03
3224	498363.09, 3846877.25	2.41E-03	1.60E-04	3.63E-04	1.43E-04	6.94E-06	1.11E-04	1.72E-08	0.00319388	1.37E-03	1.60E-04	3.63E-04	1.43E-04	6.94E-06	1.25E-05	1.11E-04	2.16E-03
3225	471363.09, 3847377.25	2.87E-03	5.02E-04	8.59E-04	2.48E-04	1.27E-05	1.59E-04	5.26E-08	0.00464736	2.01E-03	5.02E-04	8.59E-04	2.48E-04	1.27E-05	2.23E-05	1.59E-04	3.81E-03
3226	471863.09, 3847377.25	3.31E-03	6.86E-04	9.85E-04	2.50E-04	1.29E-05	1.60E-04	5.34E-08	0.00540784	2.45E-03	6.86E-04	9.85E-04	2.50E-04	1.29E-05	2.28E-05	1.60E-04	4.56E-03
3227	472363.09, 3847377.25	4.50E-03	1.18E-03	1.18E-03	2.51E-04	1.31E-05	1.57E-04	5.44E-08	0.00728711	3.62E-03	1.18E-03	1.18E-03	2.51E-04	1.31E-05	2.28E-05	1.57E-04	6.43E-03
3228	472863.09, 3847377.25	1.43E-02	5.29E-03	1.49E-03	2.40E-04	1.28E-05	1.45E-04	5.37E-08	0.0214359	1.34E-02	5.29E-03	1.49E-03	2.40E-04	1.28E-05	2.19E-05	1.45E-04	2.06E-02
3229	473363.09, 3847377.25	1.32E-02	4.87E-03	1.03E-03	1.90E-04	1.07E-05	1.16E-04	4.63E-08	0.01945612	1.24E-02	4.87E-03	1.03E-03	1.90E-04	1.07E-05	1.91E-05	1.16E-04	1.86E-02
3230	473863.09, 3847377.25	7.16E-03	2.29E-03	1.04E-03	1.83E-04	1.06E-05	1.17E-04	4.59E-08	0.01080354	6.27E-03	2.29E-03	1.04E-03	1.83E-04	1.06E-05	1.88E-05	1.17E-04	9.93E-03

3231	474363.09, 3847377.25	5.76E-03	1.68E-03	1.20E-03	1.82E-04	1.10E-05	1.30E-04	4.85E-08	0.00895979	4.84E-03	1.68E-03	1.20E-03	1.82E-04	1.10E-05	1.94E-05	1.30E-04	8.06E-03
3232	474863.09, 3847377.25	4.68E-03	1.24E-03	1.28E-03	1.74E-04	1.02E-05	1.36E-04	4.68E-08	0.00752663	3.79E-03	1.24E-03	1.28E-03	1.74E-04	1.02E-05	1.79E-05	1.36E-04	6.65E-03
3233	475363.09, 3847377.25	4.03E-03	9.90E-04	1.42E-03	1.81E-04	9.60E-06	1.39E-04	4.50E-08	0.00676947	3.16E-03	9.90E-04	1.42E-03	1.81E-04	9.60E-06	1.64E-05	1.39E-04	5.92E-03
3234	475863.09, 3847377.25	3.82E-03	9.10E-04	1.91E-03	2.43E-04	1.13E-05	1.58E-04	4.85E-08	0.00705592	2.96E-03	9.10E-04	1.91E-03	2.43E-04	1.13E-05	1.91E-05	1.58E-04	6.21E-03
3235	476363.09, 3847377.25	3.64E-03	8.31E-04	2.28E-03	3.25E-04	1.50E-05	1.75E-04	5.28E-08	0.00726379	2.78E-03	8.31E-04	2.28E-03	3.25E-04	1.50E-05	2.42E-05	1.75E-04	6.43E-03
3236	476863.09, 3847377.25	3.42E-03	7.26E-04	2.13E-03	3.12E-04	1.72E-05	1.68E-04	5.31E-08	0.00677346	2.55E-03	7.26E-04	2.13E-03	3.12E-04	1.72E-05	3.11E-05	1.68E-04	5.93E-03
3237	477363.09, 3847377.25	3.28E-03	6.57E-04	2.04E-03	2.83E-04	1.77E-05	1.60E-04	5.71E-08	0.00643949	2.40E-03	6.57E-04	2.04E-03	2.83E-04	1.77E-05	3.21E-05	1.60E-04	5.58E-03
3238	477863.09, 3847377.25	3.12E-03	5.95E-04	1.87E-03	2.40E-04	1.60E-05	1.43E-04	5.67E-08	0.00598005	2.24E-03	5.95E-04	1.87E-03	2.40E-04	1.60E-05	3.00E-05	1.43E-04	5.13E-03
3239	478363.09, 3847377.25	2.96E-03	5.46E-04	1.77E-03	2.12E-04	1.42E-05	1.37E-04	5.56E-08	0.00563857	2.10E-03	5.46E-04	1.77E-03	2.12E-04	1.42E-05	2.57E-05	1.37E-04	4.80E-03
3240	478863.09, 3847377.25	2.90E-03	5.12E-04	1.71E-03	2.00E-04	1.26E-05	1.35E-04	5.73E-08	0.00546688	2.03E-03	5.12E-04	1.71E-03	2.00E-04	1.26E-05	2.02E-05	1.35E-04	4.62E-03
3241	479363.09, 3847377.25	2.71E-03	4.53E-04	1.42E-03	1.63E-04	1.01E-05	1.13E-04	4.74E-08	0.00486965	1.87E-03	4.53E-04	1.42E-03	1.63E-04	1.01E-05	1.84E-05	1.13E-04	4.05E-03
3242	479863.09, 3847377.25	2.48E-03	3.89E-04	1.10E-03	1.21E-04	7.50E-06	8.98E-05	3.64E-08	0.00419526	1.68E-03	3.89E-04	1.10E-03	1.21E-04	7.50E-06	1.32E-05	8.98E-05	3.41E-03
3243	480363.09, 3847377.25	2.30E-03	3.28E-04	8.30E-04	9.21E-05	5.12E-06	7.53E-05	2.73E-08	0.00362939	1.52E-03	3.28E-04	8.30E-04	9.21E-05	5.12E-06	9.02E-06	7.53E-05	2.86E-03
3244	480863.09, 3847377.25	2.24E-03	3.04E-04	7.47E-04	8.44E-05	4.55E-06	7.23E-05	2.43E-08	0.00345292	1.46E-03	3.04E-04	7.47E-04	8.44E-05	4.55E-06	8.51E-06	7.23E-05	2.68E-03
3245	481363.09, 3847377.25	2.36E-03	3.08E-04	8.16E-04	9.10E-05	4.99E-06	7.50E-05	2.62E-08	0.00365529	1.52E-03	3.08E-04	8.16E-04	9.10E-05	4.99E-06	9.26E-06	7.50E-05	2.83E-03
3246	481863.09, 3847377.25	2.55E-03	3.27E-04	9.78E-04	1.07E-04	6.32E-06	8.32E-05	3.28E-08	0.00405377	1.64E-03	3.27E-04	9.78E-04	1.07E-04	6.32E-06	1.07E-05	8.32E-05	3.15E-03
3247	482363.09, 3847377.25	2.50E-03	3.14E-04	9.36E-04	1.02E-04	5.88E-06	8.12E-05	3.15E-08	0.00393578	1.60E-03	3.14E-04	9.36E-04	1.02E-04	5.88E-06	9.94E-06	8.12E-05	3.04E-03
3248	482863.09, 3847377.25	2.44E-03	2.97E-04	8.69E-04	9.56E-05	5.36E-06	7.89E-05	2.89E-08	0.00378939	1.55E-03	2.97E-04	8.69E-04	9.56E-05	5.36E-06	9.51E-06	7.89E-05	2.90E-03
3249	483363.09, 3847377.25	2.34E-03	2.83E-04	8.05E-04	9.02E-05	5.09E-06	7.71E-05	2.59E-08	0.00359936	1.48E-03	2.83E-04	8.05E-04	9.02E-05	5.09E-06	9.05E-06	7.71E-05	2.75E-03
3250	483863.09, 3847377.25	2.34E-03	2.75E-04	7.83E-04	8.68E-05	4.90E-06	7.79E-05	2.42E-08	0.00356347	1.47E-03	2.75E-04	7.83E-04	8.68E-05	4.90E-06	9.07E-06	7.79E-05	2.71E-03
3251	484363.09, 3847377.25	2.36E-03	2.74E-04	8.06E-04	8.74E-05	4.99E-06	8.04E-05	2.46E-08	0.00361568	1.48E-03	2.74E-04	8.06E-04	8.74E-05	4.99E-06	8.92E-06	8.04E-05	2.74E-03
3252	484863.09, 3847377.25	2.31E-03	2.64E-04	7.65E-04	8.28E-05	4.68E-06	7.98E-05	2.38E-08	0.00350935	1.45E-03	2.64E-04	7.65E-04	8.28E-05	4.68E-06	8.57E-06	7.98E-05	2.65E-03
3253	485363.09, 3847377.25	2.28E-03	2.57E-04	7.45E-04	8.05E-05	4.50E-06	7.77E-05	2.36E-08	0.00344652	1.42E-03	2.57E-04	7.45E-04	8.05E-05	4.50E-06	8.30E-06	7.77E-05	2.59E-03
3254	485863.09, 3847377.25	2.26E-03	2.53E-04	7.41E-04	7.93E-05	4.34E-06	7.40E-05	2.32E-08	0.00340814	1.40E-03	2.53E-04	7.41E-04	7.93E-05	4.34E-06	7.79E-06	7.40E-05	2.56E-03
3255	486363.09, 3847377.25	2.25E-03	2.49E-04	7.34E-04	7.77E-05	4.25E-06	7.16E-05	2.30E-08	0.00338323	1.40E-03	2.49E-04	7.34E-04	7.77E-05	4.25E-06	7.46E-06	7.16E-05	2.54E-03
3256	486863.09, 3847377.25	2.17E-03	2.33E-04	6.50E-04	7.09E-05	3.82E-06	6.74E-05	2.10E-08	0.0031913	1.34E-03	2.33E-04	6.50E-04	7.09E-05	3.82E-06	6.85E-06	6.74E-05	2.37E-03
3257	487363.09, 3847377.25	2.19E-03	2.30E-04	6.46E-04	7.03E-05	3.78E-06	6.56E-05	2.12E-08	0.00320445	1.34E-03	2.30E-04	6.46E-04	7.03E-05	3.78E-06	6.84E-06	6.56E-05	2.37E-03
3258	487863.09, 3847377.25	2.12E-03	2.19E-04	5.88E-04	6.68E-05	3.47E-06	6.27E-05	1.97E-08	0.00306337	1.30E-03	2.19E-04	5.88E-04	6.68E-05	3.47E-06	6.43E-06	6.27E-05	2.25E-03
3259	488363.09, 3847377.25	2.12E-03	2.13E-04	5.62E-04	6.64E-05	3.40E-06	6.34E-05	1.85E-08	0.00303207	1.29E-03	2.13E-04	5.62E-04	6.64E-05	3.40E-06	6.23E-06	6.34E-05	2.21E-03
3260	488863.09, 3847377.25	2.11E-03	2.09E-04	5.47E-04	6.73E-05	3.35E-06	6.53E-05	1.81E-08	0.00300425	1.28E-03	2.09E-04	5.47E-04	6.73E-05	3.35E-06	6.22E-06	6.53E-05	2.18E-03
3261	489363.09, 3847377.25	2.12E-03	2.05E-04	5.32E-04	6.86E-05	3.35E-06	6.68E-05	1.78E-08	0.00299162	1.28E-03	2.05E-04	5.32E-04	6.86E-05	3.35E-06	6.32E-06	6.68E-05	2.16E-03
3262	489863.09, 3847377.25	2.05E-03	1.96E-04	4.83E-04	6.77E-05	3.23E-06	6.60E-05	1.67E-08	0.0028684	1.24E-03	1.96E-04	4.83E-04	6.77E-05	3.23E-06	6.02E-06	6.60E-05	2.06E-03
3263	490363.09, 3847377.25	2.02E-03	1.87E-04	4.38E-04	6.70E-05	3.16E-06	6.33E-05	1.54E-08	0.00277557	1.21E-03	1.87E-04	4.38E-04	6.70E-05	3.16E-06	5.74E-06	6.33E-05	1.97E-03
3264	490863.09, 3847377.25	2.02E-03	1.83E-04	4.23E-04	6.85E-05	3.22E-06	6.40E-05	1.48E-08	0.00276379	1.21E-03	1.83E-04	4.23E-04	6.85E-05	3.22E-06	5.96E-06	6.40E-05	1.95E-03
3265	491363.09, 3847377.25	2.03E-03	1.78E-04	4.02E-04	6.97E-05	3.25E-06	6.50E-05	1.38E-08	0.00274501	1.20E-03	1.78E-04	4.02E-04	6.97E-05	3.25E-06	6.22E-06	6.50E-05	1.93E-03
3266	491863.09, 3847377.25	2.08E-03	1.80E-04	4.19E-04	7.52E-05	3.54E-06	6.87E-05	1.44E-08	0.00283161	1.23E-03	1.80E-04	4.19E-04	7.52E-05	3.54E-06	6.76E-06	6.87E-05	1.99E-03
3267	492363.09, 3847377.25	2.09E-03	1.75E-04	3.99E-04	7.72E-05	3.63E-06	6.94E-05	1.42E-08	0.00281144	1.23E-03	1.75E-04	3.99E-04	7.72E-05	3.63E-06	6.91E-06	6.94E-05	1.96E-03
3268	492863.09, 3847377.25	2.13E-03	1.75E-04	4.03E-04	8.28E-05	3.90E-06	7.14E-05	1.46E-08	0.00286383	1.25E-03	1.75E-04	4.03E-04	8.28E-05	3.90E-06	7.39E-06	7.14E-05	1.99E-03
3269	493363.09, 3847377.25	2.15E-03	1.73E-04	4.00E-04	8.77E-05	4.12E-06	7.22E-05	1.42E-08	0.00288822	1.26E-03	1.73E-04	4.00E-04	8.77E-05	4.12E-06	7.79E-06	7.22E-05	2.00E-03
3270	493863.09, 3847377.25	2.15E-03	1.69E-04	3.82E-04	9.10E-05	4.26E-06	7.30E-05	1.38E-08	0.00287419	1.25E-03	1.69E-04	3.82E-04	9.10E-05	4.26E-06	8.05E-06	7.30E-05	1.98E-03
3271	494363.09, 3847377.25	2.16E-03	1.66E-04	3.67E-04	9.47E-05	4.42E-06	7.50E-05	1.38E-08	0.00286787	1.25E-03	1.66E-04	3.67E-04	9.47E-05	4.42E-06	8.28E-06	7.50E-05	1.97E-03
3272	494863.09, 3847377.25	2.18E-03	1.64E-04	3.60E-04	1.00E-04	4.68E-06	7.78E-05	1.38E-08	0.00288991	1.26E-03	1.64E-04	3.60E-04	1.00E-04	4.68E-06	8.51E-06	7.78E-05	1.98E-03
3273	495363.09, 3847377.25	2.22E-03	1.62E-04	3.53E-04	1.06E-04	4.96E-06	8.14E-05	1.37E-08	0.00292906	1.28E-03	1.62E-04	3.53E-04	1.06E-04	4.96E-06	8.85E-06	8.14E-05	1.99E-03
3274	495863.09, 3847377.25	2.26E-03	1.61E-04	3.53E-04	1.13E-04	5.30E-06	8.64E-05	1.35E-08	0.00298031	1.30E-03	1.61E-04	3.53E-04	1.13E-04	5.30E-06	9.43E-06	8.64E-05	2.02E-03
3275	496363.09, 3847377.25	2.30E-03	1.61E-04	3.50E-04	1.20E-04	5.64E-06	9.19E-05	1.37E-08	0.00302952	1.31E-03	1.61E-04	3.50E-04	1.20E-04	5.64E-06	1.01E-05	9.19E-05	2.05E-03
3276	496863.09, 3847377.25	2.38E-03	1.62E-04	3.61E-04	1.31E-04	6.18E-06	9.87E-05	1.51E-08	0.00313329	1.35E-03	1.62E-04	3.61E-04	1.31E-04	6.18E-06	1.11E-05	9.87E-05	2.12E-03
3277	497363.09, 3847377.25	2.46E-03	1.64E-04	3.79E-04	1.44E-04	6.92E-06	1.08E-04	1.60E-08	0.00326439	1.40E-03	1.64E-04	3.79E-04	1.44E-04	6.92E-06	1.23E-05	1.08E-04	2.21E-03
3278	497863.09, 3847377.25	2.58E-03	1.67E-04	4.02E-04	1.60E-04	7.80E-06	1.20E-04	1.78E-08	0.0034367	1.46E-03	1.67E-04	4.02E-04	1.60E-04	7.80E-06	1.40E-05	1.20E-04	2.33E-03
3279	498363.09, 3847377.25	2.63E-03	1.66E-04	3.98E-04	1.68E-04	8.22E-06	1.26E-04	1.94E-08	0.00350011	1.48E-03	1.66E-04	3.98E-04	1.68E-04	8.22E-06	1.50E-05	1.26E-04	2.37E-03
3280	471363.09, 3847877.25	2.74E-03	3.96E-04	1.03E-03	2.69E-04	1.36E-05	1.70E-04	5.44E-08	0.00461752	1.82E-03	3.96E-04	1.03E-03	2.69E-04	1.36E-05	2.47E-05	1.70E-04	3.72E-03
3281	471863.09, 3847877.25	2.97E-03	4.80E-04	1.22E-03	2.75E-04	1.40E-05	1.73E-04	5.63E-08	0.0051274	2.03E-03	4.80E-04	1.22E-03	2.75E-04	1.40E-05	2.46E-05	1.73E-04	4.21E-03
3282	472363.09, 3847877.25	3.36E-03	6.30E-04	1.49E-03	2.77E-04	1.42E-05	1.74E-04	5.73E-08	0.0059472	2.40E-03	6.30E-04	1.49E-03	2.77E-04	1.42E-05	2.48E-05	1.74E-04	5.01E-03
3283	472863.09, 3847877.25	4.13E-03	9.34E-04	1.99E-03	2.77E-04	1.44E-05	1.71E-04	5.79E-08	0.00751795	3.14E-03	9.34E-04	1.99E-03	2.77E-04	1.44E-05	2.51E-05	1.71E-04	6.55E-03
3284	473363.09, 3847877.25	6.36E-03	1.85E-03	3.25E-03	2.79E-04	1.46E-05	1.67E-04	5.95E-08	0.01192001	5.34E-03	1.85E-03	3.25E-03	2.79E-04	1.46E-05	2.49E-05	1.67E-04	1.09E-02

3285	473863.09, 3847877.25	7.94E-02	3.24E-02	2.00E-02	2.62E-04	1.40E-05	1.53E-04	5.80E-08	0.13218151	7.83E-02	3.24E-02	2.00E-02	2.62E-04	1.40E-05	2.41E-05	1.53E-04	1.31E-01
3286	474363.09, 3847877.25	1.04E-02	3.52E-03	8.82E-03	2.14E-04	1.22E-05	1.32E-04	5.11E-08	0.02312958	9.34E-03	3.52E-03	8.82E-03	2.14E-04	1.22E-05	2.17E-05	1.32E-04	2.21E-02
3287	474863.09, 3847877.25	7.17E-03	2.13E-03	7.24E-03	2.13E-04	1.27E-05	1.46E-04	5.37E-08	0.01691925	6.08E-03	2.13E-03	7.24E-03	2.13E-04	1.27E-05	2.21E-05	1.46E-04	1.58E-02
3288	475363.09, 3847877.25	5.39E-03	1.43E-03	5.01E-03	1.95E-04	1.16E-05	1.50E-04	5.15E-08	0.01218195	4.36E-03	1.43E-03	5.01E-03	1.95E-04	1.16E-05	2.05E-05	1.50E-04	1.12E-02
3289	475863.09, 3847877.25	4.50E-03	1.10E-03	3.92E-03	1.99E-04	1.07E-05	1.51E-04	4.91E-08	0.00987936	3.52E-03	1.10E-03	3.92E-03	1.99E-04	1.07E-05	1.82E-05	1.51E-04	8.92E-03
3290	476363.09, 3847877.25	4.39E-03	1.05E-03	4.44E-03	3.01E-04	1.34E-05	1.89E-04	5.54E-08	0.0103755	3.41E-03	1.05E-03	4.44E-03	3.01E-04	1.34E-05	2.20E-05	1.89E-04	9.42E-03
3291	476863.09, 3847877.25	4.08E-03	9.16E-04	4.01E-03	3.66E-04	1.67E-05	1.91E-04	5.75E-08	0.00957679	3.10E-03	9.16E-04	4.01E-03	3.66E-04	1.67E-05	2.67E-05	1.91E-04	8.62E-03
3292	477363.09, 3847877.25	3.86E-03	8.10E-04	3.58E-03	3.63E-04	1.97E-05	1.91E-04	5.91E-08	0.00881848	2.86E-03	8.10E-04	3.58E-03	3.63E-04	1.97E-05	3.53E-05	1.91E-04	7.86E-03
3293	477863.09, 3847877.25	3.71E-03	7.34E-04	3.21E-03	3.17E-04	2.00E-05	1.75E-04	6.29E-08	0.0081657	2.70E-03	7.34E-04	3.21E-03	3.17E-04	2.00E-05	3.63E-05	1.75E-04	7.19E-03
3294	478363.09, 3847877.25	3.52E-03	6.65E-04	2.87E-03	2.71E-04	1.81E-05	1.59E-04	6.27E-08	0.00749929	2.52E-03	6.65E-04	2.87E-03	2.71E-04	1.81E-05	3.41E-05	1.59E-04	6.53E-03
3295	478863.09, 3847877.25	3.39E-03	6.14E-04	2.63E-03	2.35E-04	1.56E-05	1.52E-04	6.12E-08	0.00703567	2.39E-03	6.14E-04	2.63E-03	2.35E-04	1.56E-05	2.77E-05	1.52E-04	6.06E-03
3296	479363.09, 3847877.25	3.04E-03	5.13E-04	1.95E-03	1.64E-04	1.04E-05	1.15E-04	4.96E-08	0.00578824	2.10E-03	5.13E-04	1.95E-03	1.64E-04	1.04E-05	1.76E-05	1.15E-04	4.87E-03
3297	479863.09, 3847877.25	2.60E-03	3.98E-04	1.25E-03	1.06E-04	6.06E-06	8.29E-05	3.11E-08	0.00444605	1.75E-03	3.98E-04	1.25E-03	1.06E-04	6.06E-06	1.13E-05	8.29E-05	3.60E-03
3298	480363.09, 3847877.25	2.67E-03	3.92E-04	1.27E-03	1.08E-04	6.27E-06	8.40E-05	3.21E-08	0.0045325	1.77E-03	3.92E-04	1.27E-03	1.08E-04	6.27E-06	1.10E-05	8.40E-05	3.65E-03
3299	480863.09, 3847877.25	2.61E-03	3.61E-04	1.12E-03	9.76E-05	5.43E-06	8.02E-05	2.88E-08	0.00427366	1.71E-03	3.61E-04	1.12E-03	9.76E-05	5.43E-06	9.85E-06	8.02E-05	3.38E-03
3300	481363.09, 3847877.25	2.67E-03	3.51E-04	1.11E-03	9.89E-05	5.48E-06	8.07E-05	2.86E-08	0.00430729	1.72E-03	3.51E-04	1.11E-03	9.89E-05	5.48E-06	1.02E-05	8.07E-05	3.37E-03
3301	481863.09, 3847877.25	2.99E-03	3.83E-04	1.38E-03	1.24E-04	7.53E-06	9.39E-05	3.75E-08	0.00497529	1.92E-03	3.83E-04	1.38E-03	1.24E-04	7.53E-06	1.31E-05	9.39E-05	3.92E-03
3302	482363.09, 3847877.25	2.88E-03	3.62E-04	1.28E-03	1.17E-04	7.03E-06	9.02E-05	3.60E-08	0.00474167	1.84E-03	3.62E-04	1.28E-03	1.17E-04	7.03E-06	1.18E-05	9.02E-05	3.71E-03
3303	482863.09, 3847877.25	2.76E-03	3.38E-04	1.16E-03	1.07E-04	6.12E-06	8.52E-05	3.29E-08	0.00445556	1.75E-03	3.38E-04	1.16E-03	1.07E-04	6.12E-06	1.07E-05	8.52E-05	3.46E-03
3304	483363.09, 3847877.25	2.72E-03	3.22E-04	1.08E-03	1.02E-04	5.89E-06	8.40E-05	3.06E-08	0.0043118	1.71E-03	3.22E-04	1.08E-03	1.02E-04	5.89E-06	1.02E-05	8.40E-05	3.32E-03
3305	483863.09, 3847877.25	2.73E-03	3.12E-04	1.05E-03	9.96E-05	5.72E-06	8.49E-05	2.89E-08	0.00427382	1.70E-03	3.12E-04	1.05E-03	9.96E-05	5.72E-06	1.06E-05	8.49E-05	3.26E-03
3306	484363.09, 3847877.25	2.73E-03	3.09E-04	1.05E-03	9.90E-05	5.81E-06	8.71E-05	2.86E-08	0.00428601	1.70E-03	3.09E-04	1.05E-03	9.90E-05	5.81E-06	1.03E-05	8.71E-05	3.27E-03
3307	484863.09, 3847877.25	2.68E-03	2.99E-04	1.01E-03	9.57E-05	5.55E-06	8.85E-05	2.76E-08	0.0041812	1.67E-03	2.99E-04	1.01E-03	9.57E-05	5.55E-06	9.96E-06	8.85E-05	3.18E-03
3308	485363.09, 3847877.25	2.66E-03	2.94E-04	9.96E-04	9.43E-05	5.45E-06	8.83E-05	2.82E-08	0.00413591	1.65E-03	2.94E-04	9.96E-04	9.43E-05	5.45E-06	9.96E-06	8.83E-05	3.14E-03
3309	485863.09, 3847877.25	2.63E-03	2.88E-04	9.83E-04	9.29E-05	5.32E-06	8.43E-05	2.84E-08	0.0040816	1.63E-03	2.88E-04	9.83E-04	9.29E-05	5.32E-06	9.27E-06	8.43E-05	3.09E-03
3310	486363.09, 3847877.25	2.52E-03	2.74E-04	9.03E-04	8.68E-05	4.85E-06	7.79E-05	2.54E-08	0.00387053	1.56E-03	2.74E-04	9.03E-04	8.68E-05	4.85E-06	8.30E-06	7.79E-05	2.92E-03
3311	486863.09, 3847877.25	2.45E-03	2.62E-04	8.41E-04	8.20E-05	4.55E-06	7.49E-05	2.43E-08	0.00371905	1.51E-03	2.62E-04	8.41E-04	8.20E-05	4.55E-06	7.98E-06	7.49E-05	2.78E-03
3312	487363.09, 3847877.25	2.43E-03	2.53E-04	7.96E-04	7.95E-05	4.31E-06	7.10E-05	2.37E-08	0.00363719	1.49E-03	2.53E-04	7.96E-04	7.95E-05	4.31E-06	7.67E-06	7.10E-05	2.70E-03
3313	487863.09, 3847877.25	2.38E-03	2.41E-04	7.30E-04	7.65E-05	4.03E-06	6.84E-05	2.21E-08	0.00349942	1.45E-03	2.41E-04	7.30E-04	7.65E-05	4.03E-06	7.27E-06	6.84E-05	2.58E-03
3314	488363.09, 3847877.25	2.36E-03	2.34E-04	6.93E-04	7.64E-05	3.91E-06	6.94E-05	2.06E-08	0.00343877	1.43E-03	2.34E-04	6.93E-04	7.64E-05	3.91E-06	7.03E-06	6.94E-05	2.52E-03
3315	488863.09, 3847877.25	2.36E-03	2.29E-04	6.70E-04	7.77E-05	3.89E-06	7.21E-05	2.03E-08	0.00341624	1.43E-03	2.29E-04	6.70E-04	7.77E-05	3.89E-06	7.10E-06	7.21E-05	2.49E-03
3316	489363.09, 3847877.25	2.35E-03	2.24E-04	6.49E-04	7.97E-05	3.93E-06	7.36E-05	2.00E-08	0.00338055	1.42E-03	2.24E-04	6.49E-04	7.97E-05	3.93E-06	7.12E-06	7.36E-05	2.45E-03
3317	489863.09, 3847877.25	2.40E-03	2.22E-04	6.52E-04	8.38E-05	4.18E-06	7.57E-05	2.03E-08	0.00344002	1.44E-03	2.22E-04	6.52E-04	8.38E-05	4.18E-06	7.27E-06	7.57E-05	2.48E-03
3318	490363.09, 3847877.25	2.37E-03	2.16E-04	6.20E-04	8.54E-05	4.25E-06	7.50E-05	1.91E-08	0.00337418	1.42E-03	2.16E-04	6.20E-04	8.54E-05	4.25E-06	7.30E-06	7.50E-05	2.42E-03
3319	490863.09, 3847877.25	2.36E-03	2.08E-04	5.77E-04	8.59E-05	4.19E-06	7.46E-05	1.81E-08	0.00330692	1.40E-03	2.08E-04	5.77E-04	8.59E-05	4.19E-06	7.47E-06	7.46E-05	2.36E-03
3320	491363.09, 3847877.25	2.29E-03	1.97E-04	5.16E-04	8.50E-05	4.06E-06	7.47E-05	1.61E-08	0.00316703	1.35E-03	1.97E-04	5.16E-04	8.50E-05	4.06E-06	7.52E-06	7.47E-05	2.24E-03
3321	491863.09, 3847877.25	2.29E-03	1.93E-04	4.97E-04	8.82E-05	4.20E-06	7.63E-05	1.60E-08	0.0031514	1.35E-03	1.93E-04	4.97E-04	8.82E-05	4.20E-06	7.82E-06	7.63E-05	2.22E-03
3322	492363.09, 3847877.25	2.31E-03	1.90E-04	4.85E-04	9.30E-05	4.44E-06	7.80E-05	1.61E-08	0.00316209	1.36E-03	1.90E-04	4.85E-04	9.30E-05	4.44E-06	8.20E-06	7.80E-05	2.21E-03
3323	492863.09, 3847877.25	2.32E-03	1.86E-04	4.65E-04	9.74E-05	4.60E-06	7.84E-05	1.59E-08	0.00315026	1.35E-03	1.86E-04	4.65E-04	9.74E-05	4.60E-06	8.56E-06	7.84E-05	2.19E-03
3324	493363.09, 3847877.25	2.29E-03	1.78E-04	4.21E-04	9.83E-05	4.58E-06	7.74E-05	1.44E-08	0.0030639	1.33E-03	1.78E-04	4.21E-04	9.83E-05	4.58E-06	8.55E-06	7.74E-05	2.11E-03
3325	493863.09, 3847877.25	2.27E-03	1.72E-04	3.91E-04	1.01E-04	4.68E-06	7.80E-05	1.39E-08	0.00301806	1.31E-03	1.72E-04	3.91E-04	1.01E-04	4.68E-06	8.63E-06	7.80E-05	2.07E-03
3326	494363.09, 3847877.25	2.29E-03	1.68E-04	3.76E-04	1.06E-04	4.90E-06	8.03E-05	1.39E-08	0.00302424	1.32E-03	1.68E-04	3.76E-04	1.06E-04	4.90E-06	8.78E-06	8.03E-05	2.06E-03
3327	494863.09, 3847877.25	2.33E-03	1.66E-04	3.67E-04	1.12E-04	5.21E-06	8.41E-05	1.41E-08	0.00306275	1.33E-03	1.66E-04	3.67E-04	1.12E-04	5.21E-06	9.16E-06	8.41E-05	2.08E-03
3328	495363.09, 3847877.25	2.35E-03	1.62E-04	3.49E-04	1.16E-04	5.38E-06	8.77E-05	1.38E-08	0.00306646	1.34E-03	1.62E-04	3.49E-04	1.16E-04	5.38E-06	9.52E-06	8.77E-05	2.07E-03
3329	495863.09, 3847877.25	2.30E-03	1.52E-04	2.94E-04	1.12E-04	5.14E-06	8.73E-05	1.25E-08	0.00294617	1.30E-03	1.52E-04	2.94E-04	1.12E-04	5.14E-06	9.34E-06	8.73E-05	1.96E-03
3330	496363.09, 3847877.25	2.45E-03	1.61E-04	3.44E-04	1.32E-04	6.16E-06	9.97E-05	1.43E-08	0.00319562	1.39E-03	1.61E-04	3.44E-04	1.32E-04	6.16E-06	1.11E-05	9.97E-05	2.14E-03
3331	496863.09, 3847877.25	2.53E-03	1.62E-04	3.54E-04	1.43E-04	6.79E-06	1.08E-04	1.54E-08	0.0033008	1.43E-03	1.62E-04	3.54E-04	1.43E-04	6.79E-06	1.22E-05	1.08E-04	2.21E-03
3332	497363.09, 3847877.25	2.62E-03	1.65E-04	3.73E-04	1.58E-04	7.56E-06	1.18E-04	1.64E-08	0.00343759	1.47E-03	1.65E-04	3.73E-04	1.58E-04	7.56E-06	1.37E-05	1.18E-04	2.31E-03
3333	497863.09, 3847877.25	2.80E-03	1.73E-04	4.25E-04	1.84E-04	9.00E-06	1.35E-04	1.99E-08	0.00372396	1.57E-03	1.73E-04	4.25E-04	1.84E-04	9.00E-06	1.64E-05	1.35E-04	2.51E-03
3334	498363.09, 3847877.25	2.88E-03	1.73E-04	4.32E-04	1.99E-04	9.82E-06	1.44E-04	2.17E-08	0.00384143	1.61E-03	1.73E-04	4.32E-04	1.99E-04	9.82E-06	1.79E-05	1.44E-04	2.59E-03
3335	471363.09, 3848377.25	2.71E-03	3.37E-04	1.09E-03	2.88E-04	1.39E-05	1.82E-04	5.57E-08	0.00462554	1.73E-03	3.37E-04	1.09E-03	2.88E-04	1.39E-05	2.54E-05	1.82E-04	3.67E-03
3336	471863.09, 3848377.25	2.89E-03	3.90E-04	1.33E-03	2.96E-04	1.47E-05	1.84E-04	5.74E-08	0.00510859	1.88E-03	3.90E-04	1.33E-03	2.96E-04	1.47E-05	2.70E-05	1.84E-04	4.13E-03
3337	472363.09, 3848377.25	3.14E-03	4.65E-04	1.69E-03	3.01E-04	1.52E-05	1.86E-04	5.92E-08	0.00579748	2.09E-03	4.65E-04	1.69E-03	3.01E-04	1.52E-05	2.72E-05	1.86E-04	4.78E-03
3338	472863.09, 3848377.25	3.49E-03	5.81E-04	2.30E-03	3.06E-04	1.56E-05	1.89E-04	6.10E-08	0.00688428	2.40E-03	5.81E-04	2.30E-03	3.06E-04	1.56E-05	2.73E-05	1.89E-04	5.82E-03

3339	473363.09, 3848377.25	4.11E-03	7.84E-04	3.46E-03	3.07E-04	1.59E-05	1.87E-04	6.18E-08	0.0088557	2.95E-03	7.84E-04	3.46E-03	3.07E-04	1.59E-05	2.75E-05	1.87E-04	7.73E-03
3340	473863.09, 3848377.25	5.62E-03	1.27E-03	6.36E-03	3.09E-04	1.61E-05	1.83E-04	6.31E-08	0.01375766	4.28E-03	1.27E-03	6.36E-03	3.09E-04	1.61E-05	2.77E-05	1.83E-04	1.24E-02
3341	474363.09, 3848377.25	1.92E-02	5.64E-03	2.30E-02	2.98E-04	1.58E-05	1.72E-04	6.30E-08	0.04836075	1.62E-02	5.64E-03	2.30E-02	2.98E-04	1.58E-05	2.70E-05	1.72E-04	4.54E-02
3342	474863.09, 3848377.25	1.39E-02	4.55E-03	2.14E-02	2.55E-04	1.43E-05	1.51E-04	5.76E-08	0.0402776	1.23E-02	4.55E-03	2.14E-02	2.55E-04	1.43E-05	2.50E-05	1.51E-04	3.87E-02
3343	475363.09, 3848377.25	8.72E-03	2.55E-03	1.46E-02	2.61E-04	1.50E-05	1.74E-04	6.12E-08	0.02635143	7.34E-03	2.55E-03	1.46E-02	2.61E-04	1.50E-05	2.59E-05	1.74E-04	2.50E-02
3344	475863.09, 3848377.25	6.32E-03	1.64E-03	8.90E-03	2.28E-04	1.37E-05	1.74E-04	5.80E-08	0.01727593	5.07E-03	1.64E-03	8.90E-03	2.28E-04	1.37E-05	2.40E-05	1.74E-04	1.61E-02
3345	476363.09, 3848377.25	5.20E-03	1.23E-03	6.20E-03	2.24E-04	1.22E-05	1.68E-04	5.43E-08	0.01303303	4.03E-03	1.23E-03	6.20E-03	2.24E-04	1.22E-05	2.08E-05	1.68E-04	1.19E-02
3346	476863.09, 3848377.25	5.19E-03	1.20E-03	6.65E-03	3.56E-04	1.54E-05	2.18E-04	6.21E-08	0.01362708	3.98E-03	1.20E-03	6.65E-03	3.56E-04	1.54E-05	2.47E-05	2.18E-04	1.24E-02
3347	477363.09, 3848377.25	4.82E-03	1.06E-03	5.73E-03	4.08E-04	1.84E-05	2.06E-04	6.23E-08	0.01223354	3.62E-03	1.06E-03	5.73E-03	4.08E-04	1.84E-05	2.93E-05	2.06E-04	1.11E-02
3348	477863.09, 3848377.25	4.56E-03	9.49E-04	5.17E-03	4.08E-04	2.21E-05	2.09E-04	6.44E-08	0.01131301	3.37E-03	9.49E-04	5.17E-03	4.08E-04	2.21E-05	3.94E-05	2.09E-04	1.02E-02
3349	478363.09, 3848377.25	4.35E-03	8.55E-04	4.54E-03	3.46E-04	2.22E-05	1.88E-04	6.81E-08	0.01030979	3.16E-03	8.55E-04	4.54E-03	3.46E-04	2.22E-05	4.04E-05	1.88E-04	9.15E-03
3350	478863.09, 3848377.25	4.09E-03	7.58E-04	3.86E-03	2.80E-04	1.92E-05	1.67E-04	6.58E-08	0.00917203	2.91E-03	7.58E-04	3.86E-03	2.80E-04	1.92E-05	3.64E-05	1.67E-04	8.03E-03
3351	479363.09, 3848377.25	3.67E-03	6.30E-04	2.89E-03	1.93E-04	1.31E-05	1.30E-04	5.40E-08	0.0075182	2.55E-03	6.30E-04	2.89E-03	1.93E-04	1.31E-05	2.27E-05	1.30E-04	6.42E-03
3352	479863.09, 3848377.25	2.73E-03	3.93E-04	1.23E-03	8.64E-05	4.48E-06	7.35E-05	2.30E-08	0.00451127	1.80E-03	3.93E-04	1.23E-03	8.64E-05	4.48E-06	8.84E-06	7.35E-05	3.60E-03
3353	480363.09, 3848377.25	2.99E-03	4.41E-04	1.62E-03	1.11E-04	6.35E-06	8.67E-05	3.21E-08	0.00525658	1.99E-03	4.41E-04	1.62E-03	1.11E-04	6.35E-06	1.17E-05	8.67E-05	4.27E-03
3354	480863.09, 3848377.25	3.33E-03	4.82E-04	2.00E-03	1.41E-04	8.94E-06	1.03E-04	4.22E-08	0.00606662	2.21E-03	4.82E-04	2.00E-03	1.41E-04	8.94E-06	1.51E-05	1.03E-04	4.96E-03
3355	481363.09, 3848377.25	3.44E-03	4.60E-04	1.91E-03	1.41E-04	8.75E-06	1.04E-04	4.29E-08	0.00606505	2.23E-03	4.60E-04	1.91E-03	1.41E-04	8.75E-06	1.58E-05	1.04E-04	4.87E-03
3356	481863.09, 3848377.25	3.52E-03	4.45E-04	1.87E-03	1.44E-04	8.91E-06	1.05E-04	4.31E-08	0.00608988	2.25E-03	4.45E-04	1.87E-03	1.44E-04	8.91E-06	1.58E-05	1.05E-04	4.84E-03
3357	482363.09, 3848377.25	3.44E-03	4.26E-04	1.78E-03	1.44E-04	8.92E-06	1.04E-04	4.28E-08	0.00590964	2.19E-03	4.26E-04	1.78E-03	1.44E-04	8.92E-06	1.49E-05	1.04E-04	4.67E-03
3358	482863.09, 3848377.25	3.24E-03	3.92E-04	1.57E-03	1.25E-04	7.49E-06	9.51E-05	3.85E-08	0.00542777	2.05E-03	3.92E-04	1.57E-03	1.25E-04	7.49E-06	1.27E-05	9.51E-05	4.25E-03
3359	483363.09, 3848377.25	3.18E-03	3.73E-04	1.46E-03	1.21E-04	7.23E-06	9.43E-05	3.76E-08	0.00524082	2.00E-03	3.73E-04	1.46E-03	1.21E-04	7.23E-06	1.24E-05	9.43E-05	4.07E-03
3360	483863.09, 3848377.25	3.09E-03	3.49E-04	1.32E-03	1.12E-04	6.52E-06	9.13E-05	3.36E-08	0.00496834	1.92E-03	3.49E-04	1.32E-03	1.12E-04	6.52E-06	1.19E-05	9.13E-05	3.82E-03
3361	484363.09, 3848377.25	3.08E-03	3.40E-04	1.29E-03	1.08E-04	6.41E-06	9.19E-05	3.20E-08	0.00491207	1.91E-03	3.40E-04	1.29E-03	1.08E-04	6.41E-06	1.14E-05	9.19E-05	3.75E-03
3362	484863.09, 3848377.25	3.12E-03	3.40E-04	1.32E-03	1.13E-04	6.82E-06	9.89E-05	3.36E-08	0.00500017	1.93E-03	3.40E-04	1.32E-03	1.13E-04	6.82E-06	1.20E-05	9.89E-05	3.82E-03
3363	485363.09, 3848377.25	3.05E-03	3.28E-04	1.26E-03	1.09E-04	6.46E-06	9.82E-05	3.27E-08	0.00485846	1.88E-03	3.28E-04	1.26E-03	1.09E-04	6.46E-06	1.17E-05	9.82E-05	3.70E-03
3364	485863.09, 3848377.25	2.98E-03	3.19E-04	1.22E-03	1.06E-04	6.22E-06	9.28E-05	3.28E-08	0.00471748	1.84E-03	3.19E-04	1.22E-03	1.06E-04	6.22E-06	1.06E-05	9.28E-05	3.59E-03
3365	486363.09, 3848377.25	2.87E-03	3.05E-04	1.14E-03	1.01E-04	5.80E-06	8.68E-05	2.99E-08	0.00450551	1.77E-03	3.05E-04	1.14E-03	1.01E-04	5.80E-06	9.66E-06	8.68E-05	3.41E-03
3366	486863.09, 3848377.25	2.78E-03	2.90E-04	1.04E-03	9.42E-05	5.32E-06	8.30E-05	2.80E-08	0.0042957	1.70E-03	2.90E-04	1.04E-03	9.42E-05	5.32E-06	9.30E-06	8.30E-05	3.23E-03
3367	487363.09, 3848377.25	2.66E-03	2.72E-04	9.34E-04	8.83E-05	4.81E-06	7.63E-05	2.58E-08	0.0040334	1.62E-03	2.72E-04	9.34E-04	8.83E-05	4.81E-06	8.43E-06	7.63E-05	3.01E-03
3368	487863.09, 3848377.25	2.64E-03	2.64E-04	8.92E-04	8.84E-05	4.69E-06	7.48E-05	2.51E-08	0.00396239	1.60E-03	2.64E-04	8.92E-04	8.84E-05	4.69E-06	8.14E-06	7.48E-05	2.94E-03
3369	488363.09, 3848377.25	2.63E-03	2.56E-04	8.45E-04	8.89E-05	4.57E-06	7.66E-05	2.33E-08	0.00390463	1.59E-03	2.56E-04	8.45E-04	8.89E-05	4.57E-06	8.01E-06	7.66E-05	2.87E-03
3370	488863.09, 3848377.25	2.63E-03	2.48E-04	8.09E-04	9.09E-05	4.60E-06	7.88E-05	2.29E-08	0.00386031	1.58E-03	2.48E-04	8.09E-04	9.09E-05	4.60E-06	8.04E-06	7.88E-05	2.82E-03
3371	489363.09, 3848377.25	2.64E-03	2.43E-04	7.86E-04	9.39E-05	4.76E-06	8.11E-05	2.29E-08	0.00385262	1.58E-03	2.43E-04	7.86E-04	9.39E-05	4.76E-06	8.14E-06	8.11E-05	2.80E-03
3372	489863.09, 3848377.25	2.68E-03	2.41E-04	7.88E-04	1.01E-04	5.15E-06	8.43E-05	2.29E-08	0.00390065	1.60E-03	2.41E-04	7.88E-04	1.01E-04	5.15E-06	8.48E-06	8.43E-05	2.82E-03
3373	490363.09, 3848377.25	2.68E-03	2.34E-04	7.42E-04	1.02E-04	5.16E-06	8.37E-05	2.15E-08	0.00384603	1.59E-03	2.34E-04	7.42E-04	1.02E-04	5.16E-06	8.76E-06	8.37E-05	2.76E-03
3374	490863.09, 3848377.25	2.61E-03	2.23E-04	6.76E-04	1.01E-04	5.00E-06	8.31E-05	2.00E-08	0.00370121	1.54E-03	2.23E-04	6.76E-04	1.01E-04	5.00E-06	8.76E-06	8.31E-05	2.64E-03
3375	491363.09, 3848377.25	2.58E-03	2.14E-04	6.23E-04	1.03E-04	5.00E-06	8.45E-05	1.82E-08	0.00360599	1.51E-03	2.14E-04	6.23E-04	1.03E-04	5.00E-06	8.92E-06	8.45E-05	2.55E-03
3376	491863.09, 3848377.25	2.56E-03	2.07E-04	5.84E-04	1.06E-04	5.12E-06	8.54E-05	1.78E-08	0.00354804	1.50E-03	2.07E-04	5.84E-04	1.06E-04	5.12E-06	9.15E-06	8.54E-05	2.49E-03
3377	492363.09, 3848377.25	2.49E-03	1.96E-04	5.20E-04	1.07E-04	5.04E-06	8.41E-05	1.69E-08	0.00340603	1.45E-03	1.96E-04	5.20E-04	1.07E-04	5.04E-06	9.15E-06	8.41E-05	2.37E-03
3378	492863.09, 3848377.25	2.43E-03	1.85E-04	4.57E-04	1.06E-04	4.92E-06	8.24E-05	1.56E-08	0.00326257	1.41E-03	1.85E-04	4.57E-04	1.06E-04	4.92E-06	9.02E-06	8.24E-05	2.25E-03
3379	493363.09, 3848377.25	2.43E-03	1.80E-04	4.25E-04	1.10E-04	5.07E-06	8.26E-05	1.46E-08	0.00322857	1.40E-03	1.80E-04	4.25E-04	1.10E-04	5.07E-06	9.20E-06	8.26E-05	2.21E-03
3380	493863.09, 3848377.25	2.43E-03	1.73E-04	3.96E-04	1.15E-04	5.26E-06	8.44E-05	1.42E-08	0.00319823	1.39E-03	1.73E-04	3.96E-04	1.15E-04	5.26E-06	9.32E-06	8.44E-05	2.17E-03
3381	494363.09, 3848377.25	2.43E-03	1.68E-04	3.70E-04	1.18E-04	5.45E-06	8.69E-05	1.41E-08	0.00317711	1.39E-03	1.68E-04	3.70E-04	1.18E-04	5.45E-06	9.55E-06	8.69E-05	2.14E-03
3382	494863.09, 3848377.25	2.48E-03	1.67E-04	3.65E-04	1.26E-04	5.81E-06	9.18E-05	1.42E-08	0.00323541	1.41E-03	1.67E-04	3.65E-04	1.26E-04	5.81E-06	1.02E-05	9.18E-05	2.17E-03
3383	495363.09, 3848377.25	2.46E-03	1.59E-04	3.23E-04	1.26E-04	5.76E-06	9.38E-05	1.35E-08	0.00317044	1.39E-03	1.59E-04	3.23E-04	1.26E-04	5.76E-06	1.03E-05	9.38E-05	2.11E-03
3384	495863.09, 3848377.25	2.48E-03	1.56E-04	3.10E-04	1.31E-04	6.04E-06	9.88E-05	1.34E-08	0.0031856	1.40E-03	1.56E-04	3.10E-04	1.31E-04	6.04E-06	1.09E-05	9.88E-05	2.11E-03
3385	496363.09, 3848377.25	2.57E-03	1.59E-04	3.28E-04	1.45E-04	6.75E-06	1.08E-04	1.47E-08	0.00332059	1.45E-03	1.59E-04	3.28E-04	1.45E-04	6.75E-06	1.22E-05	1.08E-04	2.20E-03
3386	496863.09, 3848377.25	2.61E-03	1.55E-04	3.10E-04	1.49E-04	6.94E-06	1.13E-04	1.50E-08	0.00333995	1.46E-03	1.55E-04	3.10E-04	1.49E-04	6.94E-06	1.28E-05	1.13E-04	2.20E-03
3387	497363.09, 3848377.25	2.74E-03	1.61E-04	3.44E-04	1.69E-04	7.98E-06	1.26E-04	1.69E-08	0.00355149	1.53E-03	1.61E-04	3.44E-04	1.69E-04	7.98E-06	1.48E-05	1.26E-04	2.35E-03
3388	497863.09, 3848377.25	3.08E-03	1.79E-04	4.59E-04	2.21E-04	1.09E-05	1.56E-04	2.24E-08	0.0041018	1.71E-03	1.79E-04	4.59E-04	2.21E-04	1.09E-05	1.98E-05	1.56E-04	2.76E-03
3389	498363.09, 3848377.25	3.13E-03	1.78E-04	4.56E-04	2.34E-04	1.16E-05	1.62E-04	2.41E-08	0.0041711	1.74E-03	1.78E-04	4.56E-04	2.34E-04	1.16E-05	2.13E-05	1.62E-04	2.80E-03
3390	471363.09, 3848877.25	2.67E-03	2.96E-04	1.10E-03	2.90E-04	1.36E-05	1.88E-04	5.79E-08	0.00455722	1.66E-03	2.96E-04	1.10E-03	2.90E-04	1.36E-05	2.33E-05	1.88E-04	3.57E-03
3391	471863.09, 3848877.25	2.81E-03	3.29E-04	1.34E-03	3.10E-04	1.47E-05	1.96E-04	5.95E-08	0.00500801	1.77E-03	3.29E-04	1.34E-03	3.10E-04	1.47E-05	2.58E-05	1.96E-04	3.99E-03
3392	472363.09, 3848877.25	3.00E-03	3.73E-04	1.68E-03	3.24E-04	1.57E-05	2.00E-04	6.08E-08	0.00559102	1.91E-03	3.73E-04	1.68E-03	3.24E-04	1.57E-05	2.84E-05	2.00E-04	4.53E-03

3393	472863.09, 3848877.25	3.25E-03	4.39E-04	2.17E-03	3.33E-04	1.65E-05	2.03E-04	6.29E-08	0.00640998	2.12E-03	4.39E-04	2.17E-03	3.33E-04	1.65E-05	2.99E-05	2.03E-04	5.30E-03
3394	473363.09, 3848877.25	3.61E-03	5.36E-04	2.96E-03	3.42E-04	1.72E-05	2.07E-04	6.55E-08	0.00766847	2.41E-03	5.36E-04	2.96E-03	3.42E-04	1.72E-05	3.04E-05	2.07E-04	6.50E-03
3395	473863.09, 3848877.25	4.26E-03	7.12E-04	4.33E-03	3.44E-04	1.76E-05	2.06E-04	6.68E-08	0.00987355	2.94E-03	7.12E-04	4.33E-03	3.44E-04	1.76E-05	3.05E-05	2.06E-04	8.58E-03
3396	474363.09, 3848877.25	5.78E-03	1.10E-03	6.88E-03	3.48E-04	1.81E-05	2.04E-04	6.82E-08	0.01432935	4.15E-03	1.10E-03	6.88E-03	3.48E-04	1.81E-05	3.08E-05	2.04E-04	1.27E-02
3397	474863.09, 3848877.25	1.55E-02	3.56E-03	1.95E-02	3.29E-04	1.75E-05	1.86E-04	6.66E-08	0.03913244	1.19E-02	3.56E-03	1.95E-02	3.29E-04	1.75E-05	3.01E-05	1.86E-04	3.55E-02
3398	475363.09, 3848877.25	2.55E-02	7.67E-03	3.84E-02	3.13E-04	1.71E-05	1.79E-04	6.61E-08	0.07215461	2.17E-02	7.67E-03	3.84E-02	3.13E-04	1.71E-05	2.93E-05	1.79E-04	6.84E-02
3399	475863.09, 3848877.25	1.36E-02	3.75E-03	2.13E-02	3.09E-04	1.74E-05	2.00E-04	6.79E-08	0.03913296	1.12E-02	3.75E-03	2.13E-02	3.09E-04	1.74E-05	2.96E-05	2.00E-04	3.67E-02
3400	476363.09, 3848877.25	1.01E-02	2.62E-03	1.48E-02	2.78E-04	1.64E-05	2.08E-04	6.61E-08	0.02799031	8.10E-03	2.62E-03	1.48E-02	2.78E-04	1.64E-05	2.83E-05	2.08E-04	2.60E-02
3401	476863.09, 3848877.25	8.18E-03	1.99E-03	1.12E-02	2.80E-04	1.51E-05	2.09E-04	6.35E-08	0.02188858	6.40E-03	1.99E-03	1.12E-02	2.80E-04	1.51E-05	2.56E-05	2.09E-04	2.01E-02
3402	477363.09, 3848877.25	7.54E-03	1.81E-03	1.12E-02	4.23E-04	1.79E-05	2.55E-04	6.96E-08	0.02121368	5.86E-03	1.81E-03	1.12E-02	4.23E-04	1.79E-05	2.79E-05	2.55E-04	1.96E-02
3403	477863.09, 3848877.25	6.57E-03	1.47E-03	9.06E-03	4.79E-04	2.11E-05	2.34E-04	6.94E-08	0.01782784	4.98E-03	1.47E-03	9.06E-03	4.79E-04	2.11E-05	3.31E-05	2.34E-04	1.63E-02
3404	478363.09, 3848877.25	5.96E-03	1.24E-03	7.68E-03	4.72E-04	2.54E-05	2.36E-04	7.17E-08	0.01561164	4.41E-03	1.24E-03	7.68E-03	4.72E-04	2.54E-05	4.47E-05	2.36E-04	1.41E-02
3405	478863.09, 3848877.25	5.46E-03	1.04E-03	6.22E-03	3.79E-04	2.48E-05	2.03E-04	7.38E-08	0.01333892	3.92E-03	1.04E-03	6.22E-03	3.79E-04	2.48E-05	4.53E-05	2.03E-04	1.18E-02
3406	479363.09, 3848877.25	4.91E-03	8.58E-04	4.83E-03	2.85E-04	2.01E-05	1.73E-04	6.85E-08	0.01108542	3.43E-03	8.58E-04	4.83E-03	2.85E-04	2.01E-05	3.80E-05	1.73E-04	9.64E-03
3407	479863.09, 3848877.25	4.42E-03	7.12E-04	3.71E-03	2.13E-04	1.45E-05	1.40E-04	5.90E-08	0.00921645	3.01E-03	7.12E-04	3.71E-03	2.13E-04	1.45E-05	2.44E-05	1.40E-04	7.83E-03
3408	480363.09, 3848877.25	4.36E-03	6.65E-04	3.47E-03	2.16E-04	1.38E-05	1.39E-04	6.09E-08	0.00886093	2.93E-03	6.65E-04	3.47E-03	2.16E-04	1.38E-05	2.40E-05	1.39E-04	7.45E-03
3409	480863.09, 3848877.25	4.39E-03	6.26E-04	3.25E-03	2.14E-04	1.41E-05	1.40E-04	5.87E-08	0.00863663	2.90E-03	6.26E-04	3.25E-03	2.14E-04	1.41E-05	2.41E-05	1.40E-04	7.17E-03
3410	481363.09, 3848877.25	4.38E-03	5.73E-04	2.89E-03	1.97E-04	1.29E-05	1.29E-04	5.56E-08	0.00818293	2.83E-03	5.73E-04	2.89E-03	1.97E-04	1.29E-05	2.14E-05	1.29E-04	6.65E-03
3411	481863.09, 3848877.25	4.22E-03	5.13E-04	2.45E-03	1.70E-04	1.07E-05	1.18E-04	5.04E-08	0.00749073	2.68E-03	5.13E-04	2.45E-03	1.70E-04	1.07E-05	1.92E-05	1.18E-04	5.96E-03
3412	482363.09, 3848877.25	3.83E-03	4.55E-04	2.03E-03	1.44E-04	8.77E-06	1.05E-04	4.10E-08	0.00657535	2.41E-03	4.55E-04	2.03E-03	1.44E-04	8.77E-06	1.50E-05	1.05E-04	5.18E-03
3413	482863.09, 3848877.25	3.53E-03	4.10E-04	1.72E-03	1.25E-04	7.24E-06	9.48E-05	3.54E-08	0.00588281	2.21E-03	4.10E-04	1.72E-03	1.25E-04	7.24E-06	1.24E-05	9.48E-05	4.58E-03
3414	483363.09, 3848877.25	3.35E-03	3.76E-04	1.49E-03	1.12E-04	6.31E-06	9.06E-05	3.16E-08	0.00542802	2.09E-03	3.76E-04	1.49E-03	1.12E-04	6.31E-06	1.11E-05	9.06E-05	4.17E-03
3415	483863.09, 3848877.25	3.25E-03	3.60E-04	1.41E-03	1.09E-04	6.17E-06	9.06E-05	3.11E-08	0.00522142	2.02E-03	3.60E-04	1.41E-03	1.09E-04	6.17E-06	1.13E-05	9.06E-05	4.00E-03
3416	484363.09, 3848877.25	3.46E-03	3.73E-04	1.55E-03	1.21E-04	7.28E-06	9.84E-05	3.63E-08	0.00561119	2.13E-03	3.73E-04	1.55E-03	1.21E-04	7.28E-06	1.29E-05	9.84E-05	4.30E-03
3417	484863.09, 3848877.25	3.60E-03	3.80E-04	1.67E-03	1.34E-04	8.33E-06	1.09E-04	4.09E-08	0.00590148	2.21E-03	3.80E-04	1.67E-03	1.34E-04	8.33E-06	1.44E-05	1.09E-04	4.53E-03
3418	485363.09, 3848877.25	3.50E-03	3.65E-04	1.57E-03	1.28E-04	7.80E-06	1.10E-04	3.88E-08	0.00568471	2.15E-03	3.65E-04	1.57E-03	1.28E-04	7.80E-06	1.39E-05	1.10E-04	4.34E-03
3419	485863.09, 3848877.25	3.40E-03	3.51E-04	1.49E-03	1.23E-04	7.41E-06	1.04E-04	3.76E-08	0.00546953	2.08E-03	3.51E-04	1.49E-03	1.23E-04	7.41E-06	1.24E-05	1.04E-04	4.16E-03
3420	486363.09, 3848877.25	3.22E-03	3.31E-04	1.35E-03	1.13E-04	6.64E-06	9.54E-05	3.40E-08	0.00511508	1.97E-03	3.31E-04	1.35E-03	1.13E-04	6.64E-06	1.09E-05	9.54E-05	3.87E-03
3421	486863.09, 3848877.25	3.05E-03	3.10E-04	1.20E-03	1.04E-04	5.89E-06	8.93E-05	3.01E-08	0.00476001	1.86E-03	3.10E-04	1.20E-03	1.04E-04	5.89E-06	1.03E-05	8.93E-05	3.58E-03
3422	487363.09, 3848877.25	3.03E-03	3.02E-04	1.16E-03	1.05E-04	5.85E-06	8.56E-05	3.03E-08	0.0046839	1.84E-03	3.02E-04	1.16E-03	1.05E-04	5.85E-06	9.93E-06	8.56E-05	3.50E-03
3423	487863.09, 3848877.25	2.96E-03	2.89E-04	1.08E-03	1.04E-04	5.56E-06	8.29E-05	2.89E-08	0.00451703	1.79E-03	2.89E-04	1.08E-03	1.04E-04	5.56E-06	9.34E-06	8.29E-05	3.36E-03
3424	488363.09, 3848877.25	2.95E-03	2.79E-04	1.02E-03	1.06E-04	5.55E-06	8.52E-05	2.69E-08	0.0044508	1.77E-03	2.79E-04	1.02E-03	1.06E-04	5.55E-06	9.33E-06	8.52E-05	3.28E-03
3425	488863.09, 3848877.25	2.93E-03	2.69E-04	9.63E-04	1.08E-04	5.57E-06	8.74E-05	2.58E-08	0.00435794	1.75E-03	2.69E-04	9.63E-04	1.08E-04	5.57E-06	9.33E-06	8.74E-05	3.19E-03
3426	489363.09, 3848877.25	2.93E-03	2.63E-04	9.34E-04	1.13E-04	5.86E-06	9.13E-05	2.62E-08	0.00433293	1.74E-03	2.63E-04	9.34E-04	1.13E-04	5.86E-06	9.58E-06	9.13E-05	3.16E-03
3427	489863.09, 3848877.25	2.96E-03	2.58E-04	9.08E-04	1.19E-04	6.16E-06	9.46E-05	2.55E-08	0.00434153	1.75E-03	2.58E-04	9.08E-04	1.19E-04	6.16E-06	1.01E-05	9.46E-05	3.15E-03
3428	490363.09, 3848877.25	2.91E-03	2.46E-04	8.28E-04	1.19E-04	5.99E-06	9.23E-05	2.32E-08	0.00420384	1.72E-03	2.46E-04	8.28E-04	1.19E-04	5.99E-06	1.01E-05	9.23E-05	3.02E-03
3429	490863.09, 3848877.25	2.86E-03	2.34E-04	7.50E-04	1.19E-04	5.90E-06	9.21E-05	2.16E-08	0.00405964	1.67E-03	2.34E-04	7.50E-04	1.19E-04	5.90E-06	1.01E-05	9.21E-05	2.89E-03
3430	491363.09, 3848877.25	2.82E-03	2.25E-04	6.99E-04	1.23E-04	5.98E-06	9.37E-05	1.99E-08	0.003968	1.65E-03	2.25E-04	6.99E-04	1.23E-04	5.98E-06	1.03E-05	9.37E-05	2.80E-03
3431	491863.09, 3848877.25	2.74E-03	2.12E-04	6.14E-04	1.23E-04	5.82E-06	9.27E-05	1.86E-08	0.00378225	1.59E-03	2.12E-04	6.14E-04	1.23E-04	5.82E-06	1.02E-05	9.27E-05	2.64E-03
3432	492363.09, 3848877.25	2.65E-03	1.99E-04	5.34E-04	1.22E-04	5.68E-06	9.09E-05	1.73E-08	0.003603	1.53E-03	1.99E-04	5.34E-04	1.22E-04	5.68E-06	1.01E-05	9.09E-05	2.49E-03
3433	492863.09, 3848877.25	2.58E-03	1.85E-04	4.53E-04	1.20E-04	5.51E-06	8.75E-05	1.56E-08	0.00342976	1.48E-03	1.85E-04	4.53E-04	1.20E-04	5.51E-06	9.74E-06	8.75E-05	2.34E-03
3434	493363.09, 3848877.25	2.51E-03	1.73E-04	3.82E-04	1.19E-04	5.38E-06	8.62E-05	1.42E-08	0.00327298	1.43E-03	1.73E-04	3.82E-04	1.19E-04	5.38E-06	9.48E-06	8.62E-05	2.20E-03
3435	493863.09, 3848877.25	2.56E-03	1.71E-04	3.76E-04	1.27E-04	5.81E-06	9.11E-05	1.42E-08	0.0033318	1.45E-03	1.71E-04	3.76E-04	1.27E-04	5.81E-06	1.01E-05	9.11E-05	2.24E-03
3436	494363.09, 3848877.25	2.59E-03	1.67E-04	3.59E-04	1.34E-04	6.11E-06	9.55E-05	1.43E-08	0.00335342	1.46E-03	1.67E-04	3.59E-04	1.34E-04	6.11E-06	1.06E-05	9.55E-05	2.24E-03
3437	494863.09, 3848877.25	2.65E-03	1.68E-04	3.62E-04	1.44E-04	6.65E-06	1.03E-04	1.47E-08	0.0034322	1.49E-03	1.68E-04	3.62E-04	1.44E-04	6.65E-06	1.16E-05	1.03E-04	2.29E-03
3438	495363.09, 3848877.25	2.71E-03	1.66E-04	3.57E-04	1.53E-04	7.13E-06	1.10E-04	1.46E-08	0.00350703	1.52E-03	1.66E-04	3.57E-04	1.53E-04	7.13E-06	1.26E-05	1.10E-04	2.33E-03
3439	495863.09, 3848877.25	2.68E-03	1.57E-04	3.10E-04	1.50E-04	6.97E-06	1.11E-04	1.43E-08	0.00341556	1.49E-03	1.57E-04	3.10E-04	1.50E-04	6.97E-06	1.27E-05	1.11E-04	2.24E-03
3440	496363.09, 3848877.25	2.73E-03	1.56E-04	3.06E-04	1.59E-04	7.41E-06	1.18E-04	1.52E-08	0.00347866	1.52E-03	1.56E-04	3.06E-04	1.59E-04	7.41E-06	1.36E-05	1.18E-04	2.28E-03
3441	496863.09, 3848877.25	2.87E-03	1.62E-04	3.40E-04	1.80E-04	8.52E-06	1.32E-04	1.68E-08	0.00369295	1.59E-03	1.62E-04	3.40E-04	1.80E-04	8.52E-06	1.57E-05	1.32E-04	2.43E-03
3442	497363.09, 3848877.25	3.14E-03	1.77E-04	4.30E-04	2.26E-04	1.10E-05	1.58E-04	2.12E-08	0.00414111	1.74E-03	1.77E-04	4.30E-04	2.26E-04	1.10E-05	2.01E-05	1.58E-04	2.76E-03
3443	497863.09, 3848877.25	3.30E-03	1.81E-04	4.61E-04	2.52E-04	1.25E-05	1.72E-04	2.41E-08	0.00438053	1.83E-03	1.81E-04	4.61E-04	2.52E-04	1.25E-05	2.30E-05	1.72E-04	2.93E-03
3444	498363.09, 3848877.25	3.42E-03	1.84E-04	4.78E-04	2.75E-04	1.38E-05	1.83E-04	2.77E-08	0.00455232	1.89E-03	1.84E-04	4.78E-04	2.75E-04	1.38E-05	2.57E-05	1.83E-04	3.05E-03
3445	471363.09, 3849377.25	2.63E-03	2.59E-04	1.07E-03	2.73E-04	1.31E-05	1.91E-04	5.69E-08	0.00444368	1.60E-03	2.59E-04	1.07E-03	2.73E-04	1.31E-05	2.28E-05	1.91E-04	3.43E-03
3446	471863.09, 3849377.25	2.77E-03	2.87E-04	1.29E-03	3.06E-04	1.44E-05	2.04E-04	6.17E-08	0.00487398	1.70E-03	2.87E-04	1.29E-03	3.06E-04	1.44E-05	2.44E-05	2.04E-04	3.83E-03

3447	472363.09, 3849377.25	2.93E-03	3.19E-04	1.56E-03	3.31E-04	1.55E-05	2.12E-04	6.40E-08	0.0053589	1.81E-03	3.19E-04	1.56E-03	3.31E-04	1.55E-05	2.64E-05	2.12E-04	4.27E-03
3448	472863.09, 3849377.25	3.12E-03	3.59E-04	1.93E-03	3.52E-04	1.67E-05	2.18E-04	6.53E-08	0.00599556	1.95E-03	3.59E-04	1.93E-03	3.52E-04	1.67E-05	2.92E-05	2.18E-04	4.86E-03
3449	473363.09, 3849377.25	3.39E-03	4.19E-04	2.48E-03	3.68E-04	1.78E-05	2.22E-04	6.69E-08	0.00688904	2.16E-03	4.19E-04	2.48E-03	3.68E-04	1.78E-05	3.19E-05	2.22E-04	5.69E-03
3450	473863.09, 3849377.25	3.75E-03	5.09E-04	3.24E-03	3.80E-04	1.88E-05	2.25E-04	6.95E-08	0.00812053	2.44E-03	5.09E-04	3.24E-03	3.80E-04	1.88E-05	3.35E-05	2.25E-04	6.85E-03
3451	474363.09, 3849377.25	4.29E-03	6.46E-04	4.36E-03	3.87E-04	1.96E-05	2.28E-04	7.18E-08	0.00993075	2.87E-03	6.46E-04	4.36E-03	3.87E-04	1.96E-05	3.41E-05	2.28E-04	8.55E-03
3452	474863.09, 3849377.25	5.23E-03	8.94E-04	6.24E-03	3.92E-04	2.03E-05	2.26E-04	7.37E-08	0.01300465	3.63E-03	8.94E-04	6.24E-03	3.92E-04	2.03E-05	3.44E-05	2.26E-04	1.14E-02
3453	475363.09, 3849377.25	7.34E-03	1.46E-03	1.04E-02	3.91E-04	2.05E-05	2.19E-04	7.46E-08	0.01979141	5.34E-03	1.46E-03	1.04E-02	3.91E-04	2.05E-05	3.45E-05	2.19E-04	1.78E-02
3454	475863.09, 3849377.25	1.25E-02	2.52E-03	1.80E-02	3.91E-04	2.10E-05	2.23E-04	7.69E-08	0.0335949	9.13E-03	2.52E-03	1.80E-02	3.91E-04	2.10E-05	3.44E-05	2.23E-04	3.03E-02
3455	476363.09, 3849377.25	2.60E-02	5.50E-03	3.34E-02	3.81E-04	2.11E-05	2.46E-04	7.80E-08	0.0654946	1.93E-02	5.50E-03	3.34E-02	3.81E-04	2.11E-05	3.43E-05	2.46E-04	5.89E-02
3456	476863.09, 3849377.25	5.57E-02	1.53E-02	7.40E-02	3.54E-04	2.03E-05	2.69E-04	7.70E-08	0.14555776	4.56E-02	1.53E-02	7.40E-02	3.54E-04	2.03E-05	3.36E-05	2.69E-04	1.36E-01
3457	477363.09, 3849377.25	1.81E-02	4.38E-03	2.67E-02	3.64E-04	1.91E-05	2.76E-04	7.51E-08	0.04981297	1.41E-02	4.38E-03	2.67E-02	3.64E-04	1.91E-05	3.15E-05	2.76E-04	4.59E-02
3458	477863.09, 3849377.25	1.18E-02	2.63E-03	1.71E-02	4.60E-04	1.97E-05	2.69E-04	7.44E-08	0.03233757	8.94E-03	2.63E-03	1.71E-02	4.60E-04	1.97E-05	3.07E-05	2.69E-04	2.95E-02
3459	478363.09, 3849377.25	9.54E-03	1.93E-03	1.29E-02	5.57E-04	2.41E-05	2.65E-04	7.66E-08	0.02524821	6.99E-03	1.93E-03	1.29E-02	5.57E-04	2.41E-05	3.71E-05	2.65E-04	2.27E-02
3460	478863.09, 3849377.25	8.25E-03	1.46E-03	9.62E-03	5.03E-04	2.79E-05	2.45E-04	7.63E-08	0.02009788	5.79E-03	1.46E-03	9.62E-03	5.03E-04	2.79E-05	4.90E-05	2.45E-04	1.77E-02
3461	479363.09, 3849377.25	7.44E-03	1.19E-03	7.68E-03	4.20E-04	2.78E-05	2.22E-04	8.03E-08	0.01697974	5.07E-03	1.19E-03	7.68E-03	4.20E-04	2.78E-05	5.09E-05	2.22E-04	1.47E-02
3462	479863.09, 3849377.25	6.38E-03	9.41E-04	5.68E-03	3.03E-04	2.17E-05	1.86E-04	7.30E-08	0.01350639	4.24E-03	9.41E-04	5.68E-03	3.03E-04	2.17E-05	4.07E-05	1.86E-04	1.14E-02
3463	480363.09, 3849377.25	6.28E-03	8.91E-04	5.49E-03	3.25E-04	2.14E-05	1.91E-04	7.94E-08	0.01319699	4.14E-03	8.91E-04	5.49E-03	3.25E-04	2.14E-05	3.48E-05	1.91E-04	1.11E-02
3464	480863.09, 3849377.25	5.80E-03	7.83E-04	4.66E-03	2.90E-04	1.87E-05	1.77E-04	7.59E-08	0.01172638	3.77E-03	7.83E-04	4.66E-03	2.90E-04	1.87E-05	3.21E-05	1.77E-04	9.73E-03
3465	481363.09, 3849377.25	5.35E-03	6.69E-04	3.71E-03	2.31E-04	1.55E-05	1.48E-04	6.18E-08	0.01012871	3.42E-03	6.69E-04	3.71E-03	2.31E-04	1.55E-05	2.57E-05	1.48E-04	8.22E-03
3466	481863.09, 3849377.25	4.72E-03	5.49E-04	2.74E-03	1.67E-04	1.04E-05	1.18E-04	4.81E-08	0.00830798	2.96E-03	5.49E-04	2.74E-03	1.67E-04	1.04E-05	1.83E-05	1.18E-04	6.57E-03
3467	482363.09, 3849377.25	4.32E-03	4.90E-04	2.32E-03	1.50E-04	8.91E-06	1.09E-04	4.23E-08	0.00740519	2.70E-03	4.90E-04	2.32E-03	1.50E-04	8.91E-06	1.56E-05	1.09E-04	5.80E-03
3468	482863.09, 3849377.25	3.90E-03	4.32E-04	1.89E-03	1.28E-04	7.23E-06	9.71E-05	3.38E-08	0.00645016	2.42E-03	4.32E-04	1.89E-03	1.28E-04	7.23E-06	1.26E-05	9.71E-05	4.99E-03
3469	483363.09, 3849377.25	3.64E-03	3.97E-04	1.66E-03	1.18E-04	6.56E-06	9.35E-05	3.10E-08	0.00591546	2.25E-03	3.97E-04	1.66E-03	1.18E-04	6.56E-06	1.16E-05	9.35E-05	4.54E-03
3470	483863.09, 3849377.25	3.34E-03	3.56E-04	1.37E-03	1.04E-04	5.62E-06	8.88E-05	2.67E-08	0.00526715	2.06E-03	3.56E-04	1.37E-03	1.04E-04	5.62E-06	1.04E-05	8.88E-05	4.00E-03
3471	484363.09, 3849377.25	3.88E-03	4.06E-04	1.84E-03	1.34E-04	8.11E-06	1.06E-04	4.11E-08	0.00636975	2.38E-03	4.06E-04	1.84E-03	1.34E-04	8.11E-06	1.45E-05	1.06E-04	4.88E-03
3472	484863.09, 3849377.25	4.14E-03	4.21E-04	2.02E-03	1.57E-04	9.97E-06	1.20E-04	4.88E-08	0.00686719	2.52E-03	4.21E-04	2.02E-03	1.57E-04	9.97E-06	1.72E-05	1.20E-04	5.27E-03
3473	485363.09, 3849377.25	4.03E-03	4.03E-04	1.91E-03	1.51E-04	9.46E-06	1.24E-04	4.68E-08	0.00662837	2.45E-03	4.03E-04	1.91E-03	1.51E-04	9.46E-06	1.67E-05	1.24E-04	5.06E-03
3474	485863.09, 3849377.25	3.56E-03	3.57E-04	1.54E-03	1.21E-04	7.08E-06	1.05E-04	3.57E-08	0.00569339	2.16E-03	3.57E-04	1.54E-03	1.21E-04	7.08E-06	1.22E-05	1.05E-04	4.31E-03
3475	486363.09, 3849377.25	3.21E-03	3.19E-04	1.26E-03	1.05E-04	5.82E-06	9.22E-05	2.89E-08	0.00499043	1.95E-03	3.19E-04	1.26E-03	1.05E-04	5.82E-06	9.98E-06	9.22E-05	3.74E-03
3476	486863.09, 3849377.25	3.38E-03	3.32E-04	1.40E-03	1.20E-04	6.80E-06	9.76E-05	3.40E-08	0.00532861	2.05E-03	3.32E-04	1.40E-03	1.20E-04	6.80E-06	1.16E-05	9.76E-05	4.01E-03
3477	487363.09, 3849377.25	3.39E-03	3.26E-04	1.37E-03	1.26E-04	6.99E-06	9.56E-05	3.49E-08	0.00531042	2.04E-03	3.26E-04	1.37E-03	1.26E-04	6.99E-06	1.14E-05	9.56E-05	3.98E-03
3478	487863.09, 3849377.25	3.34E-03	3.12E-04	1.28E-03	1.26E-04	6.75E-06	9.37E-05	3.36E-08	0.00516021	2.01E-03	3.12E-04	1.28E-03	1.26E-04	6.75E-06	1.11E-05	9.37E-05	3.83E-03
3479	488363.09, 3849377.25	3.31E-03	3.00E-04	1.20E-03	1.28E-04	6.79E-06	9.57E-05	3.11E-08	0.00504772	1.98E-03	3.00E-04	1.20E-03	1.28E-04	6.79E-06	1.10E-05	9.57E-05	3.72E-03
3480	488863.09, 3849377.25	3.29E-03	2.91E-04	1.14E-03	1.33E-04	7.07E-06	9.99E-05	2.98E-08	0.00496726	1.95E-03	2.91E-04	1.14E-03	1.33E-04	7.07E-06	1.14E-05	9.99E-05	3.64E-03
3481	489363.09, 3849377.25	3.29E-03	2.83E-04	1.09E-03	1.38E-04	7.33E-06	1.04E-04	2.99E-08	0.00490731	1.94E-03	2.83E-04	1.09E-03	1.38E-04	7.33E-06	1.18E-05	1.04E-04	3.57E-03
3482	489863.09, 3849377.25	3.25E-03	2.72E-04	1.02E-03	1.42E-04	7.39E-06	1.06E-04	2.82E-08	0.00479225	1.91E-03	2.72E-04	1.02E-03	1.42E-04	7.39E-06	1.20E-05	1.06E-04	3.47E-03
3483	490363.09, 3849377.25	3.19E-03	2.57E-04	9.14E-04	1.42E-04	7.16E-06	1.03E-04	2.54E-08	0.00460975	1.86E-03	2.57E-04	9.14E-04	1.42E-04	7.16E-06	1.18E-05	1.03E-04	3.30E-03
3484	490863.09, 3849377.25	3.15E-03	2.45E-04	8.34E-04	1.44E-04	7.15E-06	1.04E-04	2.37E-08	0.00447982	1.83E-03	2.45E-04	8.34E-04	1.44E-04	7.15E-06	1.20E-05	1.04E-04	3.17E-03
3485	491363.09, 3849377.25	3.11E-03	2.35E-04	7.66E-04	1.50E-04	7.21E-06	1.06E-04	2.17E-08	0.0043704	1.80E-03	2.35E-04	7.66E-04	1.50E-04	7.21E-06	1.22E-05	1.06E-04	3.07E-03
3486	491863.09, 3849377.25	2.99E-03	2.20E-04	6.67E-04	1.50E-04	7.05E-06	1.04E-04	2.03E-08	0.00413704	1.72E-03	2.20E-04	6.67E-04	1.50E-04	7.05E-06	1.19E-05	1.04E-04	2.88E-03
3487	492363.09, 3849377.25	2.90E-03	2.07E-04	5.79E-04	1.50E-04	6.97E-06	1.02E-04	1.86E-08	0.0039479	1.66E-03	2.07E-04	5.79E-04	1.50E-04	6.97E-06	1.18E-05	1.02E-04	2.72E-03
3488	492863.09, 3849377.25	2.79E-03	1.89E-04	4.67E-04	1.43E-04	6.56E-06	9.76E-05	1.63E-08	0.00369704	1.59E-03	1.89E-04	4.67E-04	1.43E-04	6.56E-06	1.11E-05	9.76E-05	2.50E-03
3489	493363.09, 3849377.25	2.76E-03	1.80E-04	4.19E-04	1.46E-04	6.69E-06	9.97E-05	1.52E-08	0.00361329	1.56E-03	1.80E-04	4.19E-04	1.46E-04	6.69E-06	1.14E-05	9.97E-05	2.43E-03
3490	493863.09, 3849377.25	2.79E-03	1.75E-04	3.90E-04	1.52E-04	6.98E-06	1.04E-04	1.51E-08	0.00361791	1.57E-03	1.75E-04	3.90E-04	1.52E-04	6.98E-06	1.19E-05	1.04E-04	2.41E-03
3491	494363.09, 3849377.25	2.86E-03	1.74E-04	3.89E-04	1.64E-04	7.57E-06	1.12E-04	1.56E-08	0.00370425	1.60E-03	1.74E-04	3.89E-04	1.64E-04	7.57E-06	1.30E-05	1.12E-04	2.46E-03
3492	494863.09, 3849377.25	3.04E-03	1.82E-04	4.39E-04	1.90E-04	8.97E-06	1.28E-04	1.68E-08	0.0039885	1.70E-03	1.82E-04	4.39E-04	1.90E-04	8.97E-06	1.56E-05	1.28E-04	2.66E-03
3493	495363.09, 3849377.25	3.11E-03	1.82E-04	4.43E-04	2.05E-04	9.77E-06	1.38E-04	1.73E-08	0.00408846	1.73E-03	1.82E-04	4.43E-04	2.05E-04	9.77E-06	1.72E-05	1.38E-04	2.73E-03
3494	495863.09, 3849377.25	2.92E-03	1.60E-04	3.19E-04	1.78E-04	8.33E-06	1.28E-04	1.57E-08	0.00371476	1.62E-03	1.60E-04	3.19E-04	1.78E-04	8.33E-06	1.52E-05	1.28E-04	2.42E-03
3495	496363.09, 3849377.25	2.92E-03	1.55E-04	2.95E-04	1.80E-04	8.47E-06	1.32E-04	1.60E-08	0.00369522	1.61E-03	1.55E-04	2.95E-04	1.80E-04	8.47E-06	1.58E-05	1.32E-04	2.40E-03
3496	496863.09, 3849377.25	3.27E-03	1.75E-04	4.07E-04	2.35E-04	1.14E-05	1.63E-04	2.04E-08	0.00426308	1.80E-03	1.75E-04	4.07E-04	2.35E-04	1.14E-05	2.10E-05	1.63E-04	2.82E-03
3497	497363.09, 3849377.25	3.39E-03	1.78E-04	4.31E-04	2.60E-04	1.28E-05	1.77E-04	2.28E-08	0.0044503	1.86E-03	1.78E-04	4.31E-04	2.60E-04	1.28E-05	2.38E-05	1.77E-04	2.95E-03
3498	497863.09, 3849377.25	3.82E-03	1.96E-04	5.42E-04	3.31E-04	1.69E-05	2.11E-04	3.11E-08	0.00511452	2.09E-03	1.96E-04	5.42E-04	3.31E-04	1.69E-05	3.14E-05	2.11E-04	3.42E-03
3499	498363.09, 3849377.25	3.78E-03	1.90E-04	5.04E-04	3.29E-04	1.68E-05	2.11E-04	3.11E-08	0.00502603	2.07E-03	1.90E-04	5.04E-04	3.29E-04	1.68E-05	3.15E-05	2.11E-04	3.35E-03
3500	471363.09, 3849877.25	2.58E-03	2.19E-04	8.41E-04	2.31E-04	1.22E-05	1.70E-04	5.10E-08	0.00405611	1.52E-03	2.19E-04	8.41E-04	2.31E-04	1.22E-05	2.11E-05	1.70E-04	3.02E-03

3501	471863.09, 3849877.25	2.78E-03	2.56E-04	1.14E-03	2.76E-04	1.37E-05	1.98E-04	5.75E-08	0.00466311	1.66E-03	2.56E-04	1.14E-03	2.76E-04	1.37E-05	2.38E-05	1.98E-04	3.57E-03
3502	472363.09, 3849877.25	2.93E-03	2.85E-04	1.42E-03	3.18E-04	1.52E-05	2.19E-04	6.40E-08	0.00518543	1.77E-03	2.85E-04	1.42E-03	3.18E-04	1.52E-05	2.59E-05	2.19E-04	4.05E-03
3503	472863.09, 3849877.25	3.05E-03	3.12E-04	1.71E-03	3.52E-04	1.66E-05	2.31E-04	6.85E-08	0.00567329	1.86E-03	3.12E-04	1.71E-03	3.52E-04	1.66E-05	2.77E-05	2.31E-04	4.51E-03
3504	473363.09, 3849877.25	3.22E-03	3.48E-04	2.09E-03	3.77E-04	1.77E-05	2.36E-04	7.03E-08	0.00628753	1.99E-03	3.48E-04	2.09E-03	3.77E-04	1.77E-05	3.00E-05	2.36E-04	5.09E-03
3505	473863.09, 3849877.25	3.41E-03	3.96E-04	2.57E-03	4.03E-04	1.91E-05	2.43E-04	7.20E-08	0.00704336	2.14E-03	3.96E-04	2.57E-03	4.03E-04	1.91E-05	3.32E-05	2.43E-04	5.81E-03
3506	474363.09, 3849877.25	3.65E-03	4.60E-04	3.16E-03	4.24E-04	2.05E-05	2.48E-04	7.43E-08	0.00796188	2.33E-03	4.60E-04	3.16E-03	4.24E-04	2.05E-05	3.62E-05	2.48E-04	6.68E-03
3507	474863.09, 3849877.25	3.93E-03	5.39E-04	3.92E-03	4.37E-04	2.17E-05	2.52E-04	7.72E-08	0.0090967	2.57E-03	5.39E-04	3.92E-03	4.37E-04	2.17E-05	3.80E-05	2.52E-04	7.77E-03
3508	475363.09, 3849877.25	4.33E-03	6.47E-04	4.92E-03	4.41E-04	2.25E-05	2.49E-04	7.89E-08	0.0106172	2.89E-03	6.47E-04	4.92E-03	4.41E-04	2.25E-05	3.86E-05	2.49E-04	9.21E-03
3509	475863.09, 3849877.25	5.11E-03	7.90E-04	6.26E-03	4.46E-04	2.33E-05	2.45E-04	8.07E-08	0.01286797	3.44E-03	7.90E-04	6.26E-03	4.46E-04	2.33E-05	3.90E-05	2.45E-04	1.12E-02
3510	476363.09, 3849877.25	6.22E-03	1.01E-03	8.17E-03	4.48E-04	2.39E-05	2.47E-04	8.30E-08	0.01612186	4.25E-03	1.01E-03	8.17E-03	4.48E-04	2.39E-05	3.90E-05	2.47E-04	1.42E-02
3511	476863.09, 3849877.25	8.44E-03	1.50E-03	1.16E-02	4.45E-04	2.45E-05	2.77E-04	8.54E-08	0.02226843	5.92E-03	1.50E-03	1.16E-02	4.45E-04	2.45E-05	3.90E-05	2.77E-04	1.98E-02
3512	477363.09, 3849877.25	1.77E-02	3.54E-03	2.18E-02	4.30E-04	2.47E-05	3.24E-04	8.68E-08	0.04386014	1.29E-02	3.54E-03	2.18E-02	4.30E-04	2.47E-05	3.87E-05	3.24E-04	3.91E-02
3513	477863.09, 3849877.25	8.16E-02	1.69E-02	8.05E-02	4.40E-04	2.36E-05	3.38E-04	8.55E-08	0.17976456	6.04E-02	1.69E-02	8.05E-02	4.40E-04	2.36E-05	3.72E-05	3.38E-04	1.59E-01
3514	478363.09, 3849877.25	2.56E-02	4.63E-03	2.91E-02	5.48E-04	2.35E-05	3.16E-04	8.37E-08	0.0601495	1.81E-02	4.63E-03	2.91E-02	5.48E-04	2.35E-05	3.55E-05	3.16E-04	5.27E-02
3515	478863.09, 3849877.25	1.64E-02	2.78E-03	1.88E-02	6.72E-04	2.85E-05	3.14E-04	8.64E-08	0.03896823	1.14E-02	2.78E-03	1.88E-02	6.72E-04	2.85E-05	4.25E-05	3.14E-04	3.40E-02
3516	479363.09, 3849877.25	1.27E-02	1.91E-03	1.31E-02	6.07E-04	3.29E-05	2.85E-04	8.67E-08	0.0285423	8.48E-03	1.91E-03	1.31E-02	6.07E-04	3.29E-05	5.69E-05	2.85E-04	2.44E-02
3517	479863.09, 3849877.25	1.07E-02	1.52E-03	1.04E-02	5.40E-04	3.41E-05	2.76E-04	9.51E-08	0.02344214	7.03E-03	1.52E-03	1.04E-02	5.40E-04	3.41E-05	6.24E-05	2.76E-04	1.99E-02
3518	480363.09, 3849877.25	9.02E-03	1.16E-03	7.63E-03	4.10E-04	2.81E-05	2.32E-04	8.94E-08	0.01848931	5.80E-03	1.16E-03	7.63E-03	4.10E-04	2.81E-05	5.11E-05	2.32E-04	1.53E-02
3519	480863.09, 3849877.25	7.79E-03	9.46E-04	5.90E-03	3.31E-04	2.22E-05	1.89E-04	8.17E-08	0.01516994	4.94E-03	9.46E-04	5.90E-03	3.31E-04	2.22E-05	3.62E-05	1.89E-04	1.24E-02
3520	481363.09, 3849877.25	6.95E-03	8.08E-04	4.85E-03	2.81E-04	1.88E-05	1.74E-04	7.48E-08	0.01308153	4.36E-03	8.08E-04	4.85E-03	2.81E-04	1.88E-05	3.20E-05	1.74E-04	1.05E-02
3521	481863.09, 3849877.25	5.66E-03	6.25E-04	3.29E-03	1.83E-04	1.17E-05	1.27E-04	5.13E-08	0.00989593	3.51E-03	6.25E-04	3.29E-03	1.83E-04	1.17E-05	1.99E-05	1.27E-04	7.77E-03
3522	482363.09, 3849877.25	4.95E-03	5.36E-04	2.64E-03	1.56E-04	9.08E-06	1.14E-04	4.35E-08	0.00840539	3.06E-03	5.36E-04	2.64E-03	1.56E-04	9.08E-06	1.62E-05	1.14E-04	6.53E-03
3523	482863.09, 3849877.25	4.45E-03	4.75E-04	2.20E-03	1.39E-04	7.79E-06	1.04E-04	3.66E-08	0.00737769	2.74E-03	4.75E-04	2.20E-03	1.39E-04	7.79E-06	1.38E-05	1.04E-04	5.68E-03
3524	483363.09, 3849877.25	4.01E-03	4.22E-04	1.83E-03	1.24E-04	6.80E-06	9.72E-05	3.10E-08	0.00649399	2.46E-03	4.22E-04	1.83E-03	1.24E-04	6.80E-06	1.22E-05	9.72E-05	4.96E-03
3525	483863.09, 3849877.25	3.88E-03	4.02E-04	1.73E-03	1.21E-04	6.70E-06	9.79E-05	3.10E-08	0.00623853	2.38E-03	4.02E-04	1.73E-03	1.21E-04	6.70E-06	1.23E-05	9.79E-05	4.74E-03
3526	484363.09, 3849877.25	4.36E-03	4.41E-04	2.14E-03	1.50E-04	9.14E-06	1.14E-04	4.49E-08	0.00720747	2.65E-03	4.41E-04	2.14E-03	1.50E-04	9.14E-06	1.63E-05	1.14E-04	5.52E-03
3527	484863.09, 3849877.25	4.78E-03	4.70E-04	2.47E-03	1.90E-04	1.25E-05	1.36E-04	6.03E-08	0.00806182	2.90E-03	4.70E-04	2.47E-03	1.90E-04	1.25E-05	2.14E-05	1.36E-04	6.20E-03
3528	485363.09, 3849877.25	4.53E-03	4.37E-04	2.22E-03	1.74E-04	1.10E-05	1.35E-04	5.39E-08	0.00751179	2.73E-03	4.37E-04	2.22E-03	1.74E-04	1.10E-05	1.90E-05	1.35E-04	5.73E-03
3529	485863.09, 3849877.25	4.12E-03	3.96E-04	1.89E-03	1.49E-04	9.08E-06	1.21E-04	4.45E-08	0.00668507	2.49E-03	3.96E-04	1.89E-03	1.49E-04	9.08E-06	1.50E-05	1.21E-04	5.06E-03
3530	486363.09, 3849877.25	3.87E-03	3.71E-04	1.69E-03	1.40E-04	8.14E-06	1.12E-04	3.97E-08	0.00619307	2.33E-03	3.71E-04	1.69E-03	1.40E-04	8.14E-06	1.34E-05	1.12E-04	4.67E-03
3531	486863.09, 3849877.25	3.93E-03	3.70E-04	1.72E-03	1.53E-04	8.87E-06	1.14E-04	4.26E-08	0.00629665	2.36E-03	3.70E-04	1.72E-03	1.53E-04	8.87E-06	1.45E-05	1.14E-04	4.74E-03
3532	487363.09, 3849877.25	3.85E-03	3.55E-04	1.62E-03	1.55E-04	8.72E-06	1.10E-04	4.14E-08	0.00610318	2.31E-03	3.55E-04	1.62E-03	1.55E-04	8.72E-06	1.37E-05	1.10E-04	4.57E-03
3533	487863.09, 3849877.25	3.76E-03	3.39E-04	1.50E-03	1.56E-04	8.50E-06	1.06E-04	3.98E-08	0.00587185	2.24E-03	3.39E-04	1.50E-03	1.56E-04	8.50E-06	1.33E-05	1.06E-04	4.36E-03
3534	488363.09, 3849877.25	3.72E-03	3.25E-04	1.40E-03	1.60E-04	8.72E-06	1.09E-04	3.70E-08	0.00572299	2.20E-03	3.25E-04	1.40E-03	1.60E-04	8.72E-06	1.33E-05	1.09E-04	4.22E-03
3535	488863.09, 3849877.25	3.69E-03	3.13E-04	1.32E-03	1.67E-04	9.07E-06	1.15E-04	3.50E-08	0.00561527	2.17E-03	3.13E-04	1.32E-03	1.67E-04	9.07E-06	1.40E-05	1.15E-04	4.12E-03
3536	489363.09, 3849877.25	3.66E-03	3.00E-04	1.23E-03	1.72E-04	9.19E-06	1.20E-04	3.42E-08	0.00549014	2.14E-03	3.00E-04	1.23E-03	1.72E-04	9.19E-06	1.44E-05	1.20E-04	3.99E-03
3537	489863.09, 3849877.25	3.60E-03	2.85E-04	1.13E-03	1.75E-04	9.12E-06	1.19E-04	3.14E-08	0.005311	2.09E-03	2.85E-04	1.13E-03	1.75E-04	9.12E-06	1.44E-05	1.19E-04	3.82E-03
3538	490363.09, 3849877.25	3.52E-03	2.70E-04	1.01E-03	1.78E-04	8.90E-06	1.17E-04	2.84E-08	0.00510455	2.04E-03	2.70E-04	1.01E-03	1.78E-04	8.90E-06	1.43E-05	1.17E-04	3.64E-03
3539	490863.09, 3849877.25	3.48E-03	2.57E-04	9.27E-04	1.84E-04	9.04E-06	1.21E-04	2.64E-08	0.00497372	2.00E-03	2.57E-04	9.27E-04	1.84E-04	9.04E-06	1.46E-05	1.21E-04	3.52E-03
3540	491363.09, 3849877.25	3.45E-03	2.46E-04	8.45E-04	1.90E-04	9.25E-06	1.23E-04	2.42E-08	0.00486185	1.98E-03	2.46E-04	8.45E-04	1.90E-04	9.25E-06	1.49E-05	1.23E-04	3.40E-03
3541	491863.09, 3849877.25	3.33E-03	2.30E-04	7.37E-04	1.91E-04	9.11E-06	1.20E-04	2.25E-08	0.00461744	1.90E-03	2.30E-04	7.37E-04	1.91E-04	9.11E-06	1.45E-05	1.20E-04	3.20E-03
3542	492363.09, 3849877.25	3.24E-03	2.17E-04	6.48E-04	1.93E-04	9.12E-06	1.19E-04	2.07E-08	0.00442917	1.84E-03	2.17E-04	6.48E-04	1.93E-04	9.12E-06	1.47E-05	1.19E-04	3.04E-03
3543	492863.09, 3849877.25	3.15E-03	2.02E-04	5.45E-04	1.89E-04	8.82E-06	1.18E-04	1.86E-08	0.00421732	1.78E-03	2.02E-04	5.45E-04	1.89E-04	8.82E-06	1.45E-05	1.18E-04	2.86E-03
3544	493363.09, 3849877.25	3.09E-03	1.88E-04	4.60E-04	1.85E-04	8.57E-06	1.18E-04	1.65E-08	0.00405433	1.73E-03	1.88E-04	4.60E-04	1.85E-04	8.57E-06	1.42E-05	1.18E-04	2.71E-03
3545	493863.09, 3849877.25	3.08E-03	1.79E-04	4.08E-04	1.86E-04	8.62E-06	1.22E-04	1.64E-08	0.00398026	1.71E-03	1.79E-04	4.08E-04	1.86E-04	8.62E-06	1.47E-05	1.22E-04	2.63E-03
3546	494363.09, 3849877.25	3.31E-03	1.92E-04	4.88E-04	2.25E-04	1.07E-05	1.43E-04	1.85E-08	0.00436916	1.84E-03	1.92E-04	4.88E-04	2.25E-04	1.07E-05	1.83E-05	1.43E-04	2.92E-03
3547	494863.09, 3849877.25	3.51E-03	1.97E-04	5.32E-04	2.57E-04	1.25E-05	1.62E-04	1.98E-08	0.00466596	1.94E-03	1.97E-04	5.32E-04	2.57E-04	1.25E-05	2.14E-05	1.62E-04	3.13E-03
3548	495363.09, 3849877.25	3.37E-03	1.82E-04	4.33E-04	2.38E-04	1.15E-05	1.58E-04	1.85E-08	0.00439382	1.86E-03	1.82E-04	4.33E-04	2.38E-04	1.15E-05	2.04E-05	1.58E-04	2.90E-03
3549	495863.09, 3849877.25	3.57E-03	1.90E-04	4.84E-04	2.76E-04	1.35E-05	1.80E-04	2.12E-08	0.00471412	1.97E-03	1.90E-04	4.84E-04	2.76E-04	1.35E-05	2.42E-05	1.80E-04	3.13E-03
3550	496363.09, 3849877.25	3.68E-03	1.90E-04	4.88E-04	2.95E-04	1.46E-05	1.94E-04	2.34E-08	0.0048611	2.02E-03	1.90E-04	4.88E-04	2.95E-04	1.46E-05	2.67E-05	1.94E-04	3.23E-03
3551	496863.09, 3849877.25	3.76E-03	1.89E-04	4.84E-04	3.12E-04	1.55E-05	2.03E-04	2.52E-08	0.00496423	2.06E-03	1.89E-04	4.84E-04	3.12E-04	1.55E-05	2.88E-05	2.03E-04	3.29E-03
3552	497363.09, 3849877.25	4.07E-03	2.00E-04	5.55E-04	3.69E-04	1.89E-05	2.30E-04	3.16E-08	0.00544705	2.22E-03	2.00E-04	5.55E-04	3.69E-04	1.89E-05	3.51E-05	2.30E-04	3.63E-03
3553	497863.09, 3849877.25	4.20E-03	2.01E-04	5.63E-04	3.96E-04	2.05E-05	2.44E-04	3.57E-08	0.00562663	2.29E-03	2.01E-04	5.63E-04	3.96E-04	2.05E-05	3.85E-05	2.44E-04	3.75E-03
3554	498363.09, 3849877.25	4.15E-03	1.95E-04	5.23E-04	3.92E-04	2.01E-05	2.45E-04	3.44E-08	0.00552403	2.25E-03	1.95E-04	5.23E-04	3.92E-04	2.01E-05	3.83E-05	2.45E-04	3.67E-03

3555	471363.09, 3850377.25	2.43E-03	1.61E-04	4.43E-04	1.89E-04	1.07E-05	1.38E-04	4.36E-08	0.00337399	1.38E-03	1.61E-04	4.43E-04	1.89E-04	1.07E-05	1.89E-05	1.38E-04	2.34E-03
3556	471863.09, 3850377.25	2.68E-03	2.06E-04	8.42E-04	2.45E-04	1.33E-05	1.74E-04	5.31E-08	0.00415699	1.55E-03	2.06E-04	8.42E-04	2.45E-04	1.33E-05	2.26E-05	1.74E-04	3.05E-03
3557	472363.09, 3850377.25	2.83E-03	2.34E-04	1.12E-03	2.75E-04	1.44E-05	1.96E-04	5.76E-08	0.00466791	1.66E-03	2.34E-04	1.12E-03	2.75E-04	1.44E-05	2.45E-05	1.96E-04	3.53E-03
3558	472863.09, 3850377.25	3.01E-03	2.72E-04	1.51E-03	3.30E-04	1.63E-05	2.33E-04	6.57E-08	0.00536788	1.79E-03	2.72E-04	1.51E-03	3.30E-04	1.63E-05	2.74E-05	2.33E-04	4.18E-03
3559	473363.09, 3850377.25	3.14E-03	2.97E-04	1.78E-03	3.61E-04	1.73E-05	2.40E-04	7.01E-08	0.00583412	1.89E-03	2.97E-04	1.78E-03	3.61E-04	1.73E-05	2.91E-05	2.40E-04	4.61E-03
3560	473863.09, 3850377.25	3.27E-03	3.28E-04	2.10E-03	4.00E-04	1.89E-05	2.53E-04	7.50E-08	0.00636335	1.99E-03	3.28E-04	2.10E-03	4.00E-04	1.89E-05	3.14E-05	2.53E-04	5.12E-03
3561	474363.09, 3850377.25	3.43E-03	3.63E-04	2.44E-03	4.35E-04	2.05E-05	2.66E-04	7.78E-08	0.00695177	2.11E-03	3.63E-04	2.44E-03	4.35E-04	2.05E-05	3.45E-05	2.66E-04	5.66E-03
3562	474863.09, 3850377.25	3.60E-03	4.04E-04	2.85E-03	4.67E-04	2.22E-05	2.73E-04	7.99E-08	0.00761302	2.24E-03	4.04E-04	2.85E-03	4.67E-04	2.22E-05	3.81E-05	2.73E-04	6.29E-03
3563	475363.09, 3850377.25	3.82E-03	4.51E-04	3.33E-03	4.93E-04	2.38E-05	2.80E-04	8.30E-08	0.00839713	2.41E-03	4.51E-04	3.33E-03	4.93E-04	2.38E-05	4.14E-05	2.80E-04	7.02E-03
3564	475863.09, 3850377.25	4.20E-03	5.20E-04	3.95E-03	5.06E-04	2.53E-05	2.80E-04	8.59E-08	0.009488	2.68E-03	5.20E-04	3.95E-03	5.06E-04	2.53E-05	4.34E-05	2.80E-04	8.00E-03
3565	476363.09, 3850377.25	4.71E-03	6.05E-04	4.82E-03	5.12E-04	2.64E-05	2.75E-04	8.76E-08	0.01095421	3.03E-03	6.05E-04	4.82E-03	5.12E-04	2.64E-05	4.43E-05	2.75E-04	9.31E-03
3566	476863.09, 3850377.25	5.39E-03	7.29E-04	5.98E-03	5.18E-04	2.73E-05	2.77E-04	8.98E-08	0.0129158	3.50E-03	7.29E-04	5.98E-03	5.18E-04	2.73E-05	4.46E-05	2.77E-04	1.11E-02
3567	477363.09, 3850377.25	6.45E-03	9.41E-04	7.61E-03	5.19E-04	2.82E-05	3.09E-04	9.28E-08	0.01585443	4.28E-03	9.41E-04	7.61E-03	5.19E-04	2.82E-05	4.48E-05	3.09E-04	1.37E-02
3568	477863.09, 3850377.25	8.78E-03	1.41E-03	1.10E-02	5.02E-04	2.85E-05	3.61E-04	9.43E-08	0.02204895	5.98E-03	1.41E-03	1.10E-02	5.02E-04	2.85E-05	4.46E-05	3.61E-04	1.93E-02
3569	478363.09, 3850377.25	1.82E-02	3.33E-03	2.16E-02	5.02E-04	2.76E-05	3.76E-04	9.34E-08	0.04408959	1.29E-02	3.33E-03	2.16E-02	5.02E-04	2.76E-05	4.32E-05	3.76E-04	3.88E-02
3570	478863.09, 3850377.25	1.08E-01	1.91E-02	8.85E-02	6.56E-04	2.91E-05	3.78E-04	9.46E-08	0.21682816	7.62E-02	1.91E-02	8.85E-02	6.56E-04	2.91E-05	4.20E-05	3.78E-04	1.85E-01
3571	479363.09, 3850377.25	3.75E-02	4.86E-03	3.06E-02	8.00E-04	3.41E-05	3.71E-04	9.75E-08	0.07415765	2.42E-02	4.86E-03	3.06E-02	8.00E-04	3.41E-05	4.89E-05	3.71E-04	6.09E-02
3572	479863.09, 3850377.25	2.27E-02	2.69E-03	1.83E-02	7.38E-04	3.89E-05	3.39E-04	9.92E-08	0.04474534	1.43E-02	2.69E-03	1.83E-02	7.38E-04	3.89E-05	6.59E-05	3.39E-04	3.65E-02
3573	480363.09, 3850377.25	1.65E-02	1.86E-03	1.27E-02	6.16E-04	3.94E-05	3.12E-04	1.05E-07	0.0320051	1.03E-02	1.86E-03	1.27E-02	6.16E-04	3.94E-05	7.17E-05	3.12E-04	2.59E-02
3574	480863.09, 3850377.25	1.29E-02	1.48E-03	1.02E-02	5.63E-04	3.59E-05	2.88E-04	1.09E-07	0.02543862	8.08E-03	1.48E-03	1.02E-02	5.63E-04	3.59E-05	6.20E-05	2.88E-04	2.07E-02
3575	481363.09, 3850377.25	9.58E-03	1.02E-03	6.39E-03	3.48E-04	2.38E-05	2.01E-04	8.68E-08	0.017568	5.91E-03	1.02E-03	6.39E-03	3.48E-04	2.38E-05	3.94E-05	2.01E-04	1.39E-02
3576	481863.09, 3850377.25	8.43E-03	8.77E-04	5.39E-03	3.15E-04	2.18E-05	1.93E-04	8.11E-08	0.01522287	5.17E-03	8.77E-04	5.39E-03	3.15E-04	2.18E-05	3.63E-05	1.93E-04	1.20E-02
3577	482363.09, 3850377.25	7.49E-03	7.56E-04	4.55E-03	2.80E-04	1.89E-05	1.76E-04	7.30E-08	0.01327484	4.56E-03	7.56E-04	4.55E-03	2.80E-04	1.89E-05	3.22E-05	1.76E-04	1.04E-02
3578	482863.09, 3850377.25	5.88E-03	6.02E-04	3.27E-03	1.96E-04	1.22E-05	1.34E-04	5.50E-08	0.01009471	3.59E-03	6.02E-04	3.27E-03	1.96E-04	1.22E-05	2.12E-05	1.34E-04	7.83E-03
3579	483363.09, 3850377.25	5.02E-03	5.15E-04	2.58E-03	1.62E-04	9.55E-06	1.17E-04	4.27E-08	0.00840599	3.07E-03	5.15E-04	2.58E-03	1.62E-04	9.55E-06	1.66E-05	1.17E-04	6.47E-03
3580	483863.09, 3850377.25	4.99E-03	5.02E-04	2.59E-03	1.69E-04	1.04E-05	1.22E-04	4.71E-08	0.00838672	3.04E-03	5.02E-04	2.59E-03	1.69E-04	1.04E-05	1.77E-05	1.22E-04	6.45E-03
3581	484363.09, 3850377.25	5.20E-03	5.08E-04	2.77E-03	1.94E-04	1.26E-05	1.37E-04	5.83E-08	0.00882355	3.14E-03	5.08E-04	2.77E-03	1.94E-04	1.26E-05	2.20E-05	1.37E-04	6.79E-03
3582	484863.09, 3850377.25	5.38E-03	5.14E-04	2.90E-03	2.27E-04	1.52E-05	1.52E-04	7.03E-08	0.00918328	3.24E-03	5.14E-04	2.90E-03	2.27E-04	1.52E-05	2.60E-05	1.52E-04	7.07E-03
3583	485363.09, 3850377.25	5.21E-03	4.85E-04	2.68E-03	2.20E-04	1.46E-05	1.57E-04	6.75E-08	0.00876853	3.12E-03	4.85E-04	2.68E-03	2.20E-04	1.46E-05	2.42E-05	1.57E-04	6.71E-03
3584	485863.09, 3850377.25	4.86E-03	4.45E-04	2.36E-03	1.98E-04	1.28E-05	1.48E-04	6.01E-08	0.0080227	2.90E-03	4.45E-04	2.36E-03	1.98E-04	1.28E-05	2.04E-05	1.48E-04	6.09E-03
3585	486363.09, 3850377.25	4.68E-03	4.23E-04	2.20E-03	1.96E-04	1.22E-05	1.42E-04	5.73E-08	0.00764959	2.79E-03	4.23E-04	2.20E-03	1.96E-04	1.22E-05	1.91E-05	1.42E-04	5.78E-03
3586	486863.09, 3850377.25	4.53E-03	4.03E-04	2.05E-03	1.97E-04	1.18E-05	1.39E-04	5.32E-08	0.00733072	2.69E-03	4.03E-04	2.05E-03	1.97E-04	1.18E-05	1.83E-05	1.39E-04	5.51E-03
3587	487363.09, 3850377.25	4.34E-03	3.79E-04	1.85E-03	1.93E-04	1.10E-05	1.28E-04	4.95E-08	0.0069009	2.57E-03	3.79E-04	1.85E-03	1.93E-04	1.10E-05	1.67E-05	1.28E-04	5.15E-03
3588	487863.09, 3850377.25	4.26E-03	3.63E-04	1.73E-03	1.99E-04	1.13E-05	1.24E-04	4.76E-08	0.00668544	2.51E-03	3.63E-04	1.73E-03	1.99E-04	1.13E-05	1.63E-05	1.24E-04	4.95E-03
3589	488363.09, 3850377.25	4.18E-03	3.46E-04	1.60E-03	2.05E-04	1.15E-05	1.28E-04	4.42E-08	0.00646611	2.45E-03	3.46E-04	1.60E-03	2.05E-04	1.15E-05	1.67E-05	1.28E-04	4.76E-03
3590	488863.09, 3850377.25	4.14E-03	3.32E-04	1.48E-03	2.14E-04	1.17E-05	1.34E-04	4.13E-08	0.00631945	2.42E-03	3.32E-04	1.48E-03	2.14E-04	1.17E-05	1.76E-05	1.34E-04	4.61E-03
3591	489363.09, 3850377.25	4.11E-03	3.17E-04	1.37E-03	2.23E-04	1.18E-05	1.38E-04	3.92E-08	0.00616844	2.38E-03	3.17E-04	1.37E-03	2.23E-04	1.18E-05	1.77E-05	1.38E-04	4.46E-03
3592	489863.09, 3850377.25	4.03E-03	2.99E-04	1.23E-03	2.27E-04	1.16E-05	1.38E-04	3.53E-08	0.00593864	2.32E-03	2.99E-04	1.23E-03	2.27E-04	1.16E-05	1.77E-05	1.38E-04	4.25E-03
3593	490363.09, 3850377.25	3.95E-03	2.84E-04	1.12E-03	2.34E-04	1.17E-05	1.39E-04	3.27E-08	0.00573645	2.26E-03	2.84E-04	1.12E-03	2.34E-04	1.17E-05	1.80E-05	1.39E-04	4.07E-03
3594	490863.09, 3850377.25	3.91E-03	2.71E-04	1.02E-03	2.43E-04	1.20E-05	1.43E-04	2.99E-08	0.00559398	2.23E-03	2.71E-04	1.02E-03	2.43E-04	1.20E-05	1.82E-05	1.43E-04	3.93E-03
3595	491363.09, 3850377.25	3.87E-03	2.58E-04	9.24E-04	2.51E-04	1.24E-05	1.44E-04	2.76E-08	0.00546353	2.20E-03	2.58E-04	9.24E-04	2.51E-04	1.24E-05	1.86E-05	1.44E-04	3.80E-03
3596	491863.09, 3850377.25	3.76E-03	2.40E-04	8.02E-04	2.49E-04	1.21E-05	1.42E-04	2.51E-08	0.00521021	2.12E-03	2.40E-04	8.02E-04	2.49E-04	1.21E-05	1.85E-05	1.42E-04	3.59E-03
3597	492363.09, 3850377.25	3.62E-03	2.24E-04	6.84E-04	2.45E-04	1.17E-05	1.40E-04	2.25E-08	0.00492089	2.03E-03	2.24E-04	6.84E-04	2.45E-04	1.17E-05	1.83E-05	1.40E-04	3.35E-03
3598	492863.09, 3850377.25	3.56E-03	2.12E-04	6.06E-04	2.47E-04	1.17E-05	1.44E-04	2.04E-08	0.004785	1.99E-03	2.12E-04	6.06E-04	2.47E-04	1.17E-05	1.88E-05	1.44E-04	3.23E-03
3599	493363.09, 3850377.25	3.51E-03	1.99E-04	5.18E-04	2.42E-04	1.15E-05	1.46E-04	1.89E-08	0.00462287	1.95E-03	1.99E-04	5.18E-04	2.42E-04	1.15E-05	1.90E-05	1.46E-04	3.08E-03
3600	493863.09, 3850377.25	3.64E-03	2.02E-04	5.36E-04	2.68E-04	1.29E-05	1.61E-04	2.04E-08	0.00481859	2.01E-03	2.02E-04	5.36E-04	2.68E-04	1.29E-05	2.16E-05	1.61E-04	3.22E-03
3601	494363.09, 3850377.25	3.75E-03	2.01E-04	5.40E-04	2.91E-04	1.42E-05	1.76E-04	2.10E-08	0.00497065	2.07E-03	2.01E-04	5.40E-04	2.91E-04	1.42E-05	2.41E-05	1.76E-04	3.31E-03
3602	494863.09, 3850377.25	3.95E-03	2.06E-04	5.74E-04	3.26E-04	1.62E-05	1.98E-04	2.25E-08	0.00527335	2.17E-03	2.06E-04	5.74E-04	3.26E-04	1.62E-05	2.80E-05	1.98E-04	3.52E-03
3603	495363.09, 3850377.25	4.20E-03	2.12E-04	6.16E-04	3.69E-04	1.88E-05	2.23E-04	2.63E-08	0.00563672	2.30E-03	2.12E-04	6.16E-04	3.69E-04	1.88E-05	3.29E-05	2.23E-04	3.77E-03
3604	495863.09, 3850377.25	4.11E-03	2.02E-04	5.53E-04	3.62E-04	1.83E-05	2.25E-04	2.58E-08	0.00546907	2.24E-03	2.02E-04	5.53E-04	3.62E-04	1.83E-05	3.31E-05	2.25E-04	3.64E-03
3605	496363.09, 3850377.25	4.35E-03	2.08E-04	5.90E-04	4.06E-04	2.09E-05	2.47E-04	3.05E-08	0.00582633	2.37E-03	2.08E-04	5.90E-04	4.06E-04	2.09E-05	3.82E-05	2.47E-04	3.88E-03
3606	496863.09, 3850377.25	4.56E-03	2.12E-04	6.16E-04	4.49E-04	2.34E-05	2.67E-04	3.53E-08	0.00612574	2.47E-03	2.12E-04	6.16E-04	4.49E-04	2.34E-05	4.33E-05	2.67E-04	4.08E-03
3607	497363.09, 3850377.25	4.64E-03	2.12E-04	6.10E-04	4.72E-04	2.46E-05	2.79E-04	3.98E-08	0.00623652	2.51E-03	2.12E-04	6.10E-04	4.72E-04	2.46E-05	4.62E-05	2.79E-04	4.15E-03
3608	497863.09, 3850377.25	4.63E-03	2.07E-04	5.79E-04	4.75E-04	2.48E-05	2.85E-04	3.96E-08	0.0062005	2.50E-03	2.07E-04	5.79E-04	4.75E-04	2.48E-05	4.68E-05	2.85E-04	4.12E-03

3609	498363.09, 3850377.25	4.62E-03	2.02E-04	5.50E-04	4.78E-04	2.48E-05	2.91E-04	3.97E-08	0.00616792	2.49E-03	2.02E-04	5.50E-04	4.78E-04	2.48E-05	4.71E-05	2.91E-04	4.08E-03
3610	471363.09, 3850877.25	2.61E-03	1.66E-04	5.44E-04	2.34E-04	1.33E-05	1.61E-04	4.87E-08	0.00372883	1.47E-03	1.66E-04	5.44E-04	2.34E-04	1.33E-05	2.49E-05	1.61E-04	2.61E-03
3611	471863.09, 3850877.25	2.72E-03	1.85E-04	7.23E-04	2.60E-04	1.46E-05	1.75E-04	5.32E-08	0.00408224	1.55E-03	1.85E-04	7.23E-04	2.60E-04	1.46E-05	2.62E-05	1.75E-04	2.93E-03
3612	472363.09, 3850877.25	2.85E-03	2.11E-04	9.98E-04	2.98E-04	1.62E-05	1.99E-04	5.96E-08	0.00457683	1.64E-03	2.11E-04	9.98E-04	2.98E-04	1.62E-05	2.78E-05	1.99E-04	3.39E-03
3613	472863.09, 3850877.25	3.00E-03	2.37E-04	1.27E-03	3.32E-04	1.75E-05	2.28E-04	6.49E-08	0.00508304	1.75E-03	2.37E-04	1.27E-03	3.32E-04	1.75E-05	2.90E-05	2.28E-04	3.86E-03
3614	473363.09, 3850877.25	3.07E-03	2.44E-04	1.36E-03	3.25E-04	1.71E-05	2.23E-04	6.47E-08	0.00523789	1.79E-03	2.44E-04	1.36E-03	3.25E-04	1.71E-05	2.86E-05	2.23E-04	3.99E-03
3615	473863.09, 3850877.25	3.26E-03	2.77E-04	1.69E-03	3.73E-04	1.86E-05	2.51E-04	7.16E-08	0.00586975	1.92E-03	2.77E-04	1.69E-03	3.73E-04	1.86E-05	3.10E-05	2.51E-04	4.56E-03
3616	474363.09, 3850877.25	3.36E-03	3.05E-04	1.98E-03	4.32E-04	2.08E-05	2.82E-04	7.99E-08	0.00638596	2.01E-03	3.05E-04	1.98E-03	4.32E-04	2.08E-05	3.37E-05	2.82E-04	5.06E-03
3617	474863.09, 3850877.25	3.53E-03	3.33E-04	2.25E-03	4.72E-04	2.24E-05	2.93E-04	8.43E-08	0.00689849	2.12E-03	3.33E-04	2.25E-03	4.72E-04	2.24E-05	3.64E-05	2.93E-04	5.53E-03
3618	475363.09, 3850877.25	3.68E-03	3.64E-04	2.56E-03	5.11E-04	2.42E-05	3.03E-04	8.68E-08	0.00744071	2.23E-03	3.64E-04	2.56E-03	5.11E-04	2.42E-05	4.00E-05	3.03E-04	6.03E-03
3619	475863.09, 3850877.25	3.90E-03	4.02E-04	2.91E-03	5.51E-04	2.61E-05	3.11E-04	8.97E-08	0.00809892	2.38E-03	4.02E-04	2.91E-03	5.51E-04	2.61E-05	4.42E-05	3.11E-04	6.63E-03
3620	476363.09, 3850877.25	4.26E-03	4.51E-04	3.38E-03	5.81E-04	2.81E-05	3.15E-04	9.29E-08	0.00901165	2.62E-03	4.51E-04	3.38E-03	5.81E-04	2.81E-05	4.76E-05	3.15E-04	7.42E-03
3621	476863.09, 3850877.25	4.62E-03	5.06E-04	3.98E-03	5.98E-04	2.99E-05	3.13E-04	9.58E-08	0.01004691	2.86E-03	5.06E-04	3.98E-03	5.98E-04	2.99E-05	5.02E-05	3.13E-04	8.34E-03
3622	477363.09, 3850877.25	5.07E-03	5.85E-04	4.75E-03	6.09E-04	3.15E-05	3.16E-04	9.81E-08	0.01135144	3.17E-03	5.85E-04	4.75E-03	6.09E-04	3.15E-05	5.15E-05	3.16E-04	9.51E-03
3623	477863.09, 3850877.25	5.73E-03	7.06E-04	5.75E-03	6.14E-04	3.27E-05	3.48E-04	1.01E-07	0.01317968	3.64E-03	7.06E-04	5.75E-03	6.14E-04	3.27E-05	5.19E-05	3.48E-04	1.11E-02
3624	478363.09, 3850877.25	6.98E-03	9.23E-04	7.46E-03	6.02E-04	3.34E-05	4.13E-04	1.04E-07	0.01641133	4.51E-03	9.23E-04	7.46E-03	6.02E-04	3.34E-05	5.19E-05	4.13E-04	1.40E-02
3625	478863.09, 3850877.25	9.59E-03	1.36E-03	1.05E-02	6.25E-04	3.38E-05	4.59E-04	1.06E-07	0.02257567	6.31E-03	1.36E-03	1.05E-02	6.25E-04	3.38E-05	5.11E-05	4.59E-04	1.93E-02
3626	479363.09, 3850877.25	1.84E-02	3.01E-03	1.91E-02	7.76E-04	3.46E-05	4.42E-04	1.06E-07	0.04175876	1.26E-02	3.01E-03	1.91E-02	7.76E-04	3.46E-05	4.98E-05	4.42E-04	3.60E-02
3627	479863.09, 3850877.25	1.28E-01	2.27E-02	1.10E-01	9.30E-04	3.96E-05	4.12E-04	1.06E-07	0.26259676	9.08E-02	2.27E-02	1.10E-01	9.30E-04	3.96E-05	5.63E-05	4.12E-04	2.25E-01
3628	480363.09, 3850877.25	3.33E-02	4.99E-03	3.18E-02	9.16E-04	4.67E-05	4.21E-04	1.15E-07	0.07142945	2.23E-02	4.99E-03	3.18E-02	9.16E-04	4.67E-05	7.46E-05	4.21E-04	6.05E-02
3629	480863.09, 3850877.25	1.97E-02	2.74E-03	1.87E-02	8.04E-04	4.85E-05	3.97E-04	1.25E-07	0.04246563	1.29E-02	2.74E-03	1.87E-02	8.04E-04	4.85E-05	8.50E-05	3.97E-04	3.58E-02
3630	481363.09, 3850877.25	1.46E-02	1.86E-03	1.29E-02	7.03E-04	4.39E-05	3.37E-04	1.26E-07	0.03045561	9.37E-03	1.86E-03	1.29E-02	7.03E-04	4.39E-05	7.19E-05	3.37E-04	2.53E-02
3631	481863.09, 3850877.25	1.19E-02	1.34E-03	9.09E-03	5.64E-04	3.62E-05	2.85E-04	1.18E-07	0.02324377	7.43E-03	1.34E-03	9.09E-03	5.64E-04	3.62E-05	5.83E-05	2.85E-04	1.88E-02
3632	482363.09, 3850877.25	9.68E-03	9.88E-04	6.33E-03	4.05E-04	2.81E-05	2.32E-04	9.51E-08	0.01766701	5.91E-03	9.88E-04	6.33E-03	4.05E-04	2.81E-05	4.67E-05	2.32E-04	1.39E-02
3633	482863.09, 3850877.25	8.05E-03	7.99E-04	4.93E-03	3.19E-04	2.18E-05	1.93E-04	8.20E-08	0.01432077	4.89E-03	7.99E-04	4.93E-03	3.19E-04	2.18E-05	3.70E-05	1.93E-04	1.12E-02
3634	483363.09, 3850877.25	6.60E-03	6.55E-04	3.80E-03	2.47E-04	1.62E-05	1.59E-04	6.78E-08	0.01147407	4.00E-03	6.55E-04	3.80E-03	2.47E-04	1.62E-05	2.73E-05	1.59E-04	8.91E-03
3635	483863.09, 3850877.25	6.10E-03	5.97E-04	3.44E-03	2.38E-04	1.57E-05	1.54E-04	6.42E-08	0.01054565	3.69E-03	5.97E-04	3.44E-03	2.38E-04	1.57E-05	2.54E-05	1.54E-04	8.16E-03
3636	484363.09, 3850877.25	6.18E-03	5.87E-04	3.52E-03	2.67E-04	1.83E-05	1.73E-04	7.63E-08	0.01074107	3.72E-03	5.87E-04	3.52E-03	2.67E-04	1.83E-05	3.05E-05	1.73E-04	8.31E-03
3637	484863.09, 3850877.25	5.95E-03	5.48E-04	3.27E-03	2.60E-04	1.78E-05	1.69E-04	7.83E-08	0.01021366	3.56E-03	5.48E-04	3.27E-03	2.60E-04	1.78E-05	3.07E-05	1.69E-04	7.85E-03
3638	485363.09, 3850877.25	5.83E-03	5.23E-04	3.09E-03	2.73E-04	1.86E-05	1.78E-04	7.94E-08	0.00990978	3.47E-03	5.23E-04	3.09E-03	2.73E-04	1.86E-05	2.98E-05	1.78E-04	7.58E-03
3639	485863.09, 3850877.25	5.40E-03	4.71E-04	2.66E-03	2.41E-04	1.55E-05	1.68E-04	7.00E-08	0.00894905	3.20E-03	4.71E-04	2.66E-03	2.41E-04	1.55E-05	2.46E-05	1.68E-04	6.77E-03
3640	486363.09, 3850877.25	5.35E-03	4.54E-04	2.53E-03	2.53E-04	1.60E-05	1.70E-04	7.18E-08	0.00877373	3.15E-03	4.54E-04	2.53E-03	2.53E-04	1.60E-05	2.40E-05	1.70E-04	6.60E-03
3641	486863.09, 3850877.25	5.14E-03	4.29E-04	2.33E-03	2.54E-04	1.53E-05	1.65E-04	6.64E-08	0.00833286	3.02E-03	4.29E-04	2.33E-03	2.54E-04	1.53E-05	2.28E-05	1.65E-04	6.23E-03
3642	487363.09, 3850877.25	4.89E-03	4.01E-04	2.09E-03	2.49E-04	1.46E-05	1.50E-04	5.87E-08	0.00779309	2.87E-03	4.01E-04	2.09E-03	2.49E-04	1.46E-05	2.04E-05	1.50E-04	5.78E-03
3643	487863.09, 3850877.25	4.77E-03	3.81E-04	1.92E-03	2.58E-04	1.49E-05	1.46E-04	5.66E-08	0.00748472	2.78E-03	3.81E-04	1.92E-03	2.58E-04	1.49E-05	2.03E-05	1.46E-04	5.52E-03
3644	488363.09, 3850877.25	4.74E-03	3.64E-04	1.77E-03	2.72E-04	1.52E-05	1.52E-04	5.26E-08	0.00731447	2.75E-03	3.64E-04	1.77E-03	2.72E-04	1.52E-05	2.16E-05	1.52E-04	5.34E-03
3645	488863.09, 3850877.25	4.68E-03	3.46E-04	1.62E-03	2.84E-04	1.54E-05	1.58E-04	4.81E-08	0.00710786	2.70E-03	3.46E-04	1.62E-03	2.84E-04	1.54E-05	2.19E-05	1.58E-04	5.14E-03
3646	489363.09, 3850877.25	4.65E-03	3.31E-04	1.49E-03	2.99E-04	1.57E-05	1.65E-04	4.55E-08	0.00694975	2.66E-03	3.31E-04	1.49E-03	2.99E-04	1.57E-05	2.23E-05	1.65E-04	4.98E-03
3647	489863.09, 3850877.25	4.60E-03	3.14E-04	1.35E-03	3.10E-04	1.59E-05	1.65E-04	4.09E-08	0.00675322	2.62E-03	3.14E-04	1.35E-03	3.10E-04	1.59E-05	2.27E-05	1.65E-04	4.79E-03
3648	490363.09, 3850877.25	4.57E-03	3.00E-04	1.24E-03	3.26E-04	1.65E-05	1.71E-04	3.90E-08	0.00661582	2.58E-03	3.00E-04	1.24E-03	3.26E-04	1.65E-05	2.33E-05	1.71E-04	4.66E-03
3649	490863.09, 3850877.25	4.52E-03	2.87E-04	1.13E-03	3.37E-04	1.71E-05	1.76E-04	3.50E-08	0.00645973	2.54E-03	2.87E-04	1.13E-03	3.37E-04	1.71E-05	2.43E-05	1.76E-04	4.51E-03
3650	491363.09, 3850877.25	4.41E-03	2.71E-04	1.00E-03	3.40E-04	1.71E-05	1.75E-04	3.19E-08	0.0062165	2.47E-03	2.71E-04	1.00E-03	3.40E-04	1.71E-05	2.48E-05	1.75E-04	4.30E-03
3651	491863.09, 3850877.25	4.30E-03	2.54E-04	8.80E-04	3.39E-04	1.68E-05	1.75E-04	2.92E-08	0.00596786	2.40E-03	2.54E-04	8.80E-04	3.39E-04	1.68E-05	2.53E-05	1.75E-04	4.09E-03
3652	492363.09, 3850877.25	4.23E-03	2.39E-04	7.74E-04	3.38E-04	1.66E-05	1.78E-04	2.63E-08	0.00577283	2.34E-03	2.39E-04	7.74E-04	3.38E-04	1.66E-05	2.55E-05	1.78E-04	3.91E-03
3653	492863.09, 3850877.25	4.16E-03	2.28E-04	6.94E-04	3.40E-04	1.67E-05	1.84E-04	2.37E-08	0.00562686	2.30E-03	2.28E-04	6.94E-04	3.40E-04	1.67E-05	2.64E-05	1.84E-04	3.79E-03
3654	493363.09, 3850877.25	4.18E-03	2.20E-04	6.44E-04	3.49E-04	1.72E-05	1.94E-04	2.39E-08	0.00560138	2.30E-03	2.20E-04	6.44E-04	3.49E-04	1.72E-05	2.81E-05	1.94E-04	3.75E-03
3655	493863.09, 3850877.25	4.35E-03	2.22E-04	6.60E-04	3.85E-04	1.93E-05	2.15E-04	2.58E-08	0.00584921	2.38E-03	2.22E-04	6.60E-04	3.85E-04	1.93E-05	3.22E-05	2.15E-04	3.92E-03
3656	494363.09, 3850877.25	4.45E-03	2.19E-04	6.42E-04	4.05E-04	2.05E-05	2.31E-04	2.56E-08	0.00596626	2.43E-03	2.19E-04	6.42E-04	4.05E-04	2.05E-05	3.51E-05	2.31E-04	3.98E-03
3657	494863.09, 3850877.25	4.68E-03	2.22E-04	6.62E-04	4.46E-04	2.29E-05	2.56E-04	2.84E-08	0.0062851	2.54E-03	2.22E-04	6.62E-04	4.46E-04	2.29E-05	4.03E-05	2.56E-04	4.19E-03
3658	495363.09, 3850877.25	4.88E-03	2.26E-04	6.84E-04	4.91E-04	2.56E-05	2.83E-04	3.21E-08	0.00658685	2.64E-03	2.26E-04	6.84E-04	4.91E-04	2.56E-05	4.59E-05	2.83E-04	4.40E-03
3659	495863.09, 3850877.25	4.92E-03	2.22E-04	6.56E-04	5.04E-04	2.63E-05	2.92E-04	3.49E-08	0.00662382	2.66E-03	2.22E-04	6.56E-04	5.04E-04	2.63E-05	4.82E-05	2.92E-04	4.41E-03
3660	496363.09, 3850877.25	5.03E-03	2.21E-04	6.50E-04	5.31E-04	2.79E-05	3.05E-04	3.81E-08	0.00676891	2.71E-03	2.21E-04	6.50E-04	5.31E-04	2.79E-05	5.17E-05	3.05E-04	4.50E-03
3661	496863.09, 3850877.25	5.21E-03	2.24E-04	6.62E-04	5.73E-04	3.04E-05	3.27E-04	4.58E-08	0.00702297	2.80E-03	2.24E-04	6.62E-04	5.73E-04	3.04E-05	5.69E-05	3.27E-04	4.67E-03
3662	497363.09, 3850877.25	5.21E-03	2.19E-04	6.34E-04	5.81E-04	3.08E-05	3.35E-04	4.62E-08	0.00700992	2.80E-03	2.19E-04	6.34E-04	5.81E-04	3.08E-05	5.80E-05	3.35E-04	4.65E-03

3663	497863.09, 3850877.25	5.14E-03	2.13E-04	5.97E-04	5.76E-04	3.04E-05	3.40E-04	4.55E-08	0.00689956	2.76E-03	2.13E-04	5.97E-04	5.76E-04	3.04E-05	5.76E-05	3.40E-04	4.57E-03
3664	498363.09, 3850877.25	5.09E-03	2.07E-04	5.61E-04	5.70E-04	2.99E-05	3.43E-04	4.66E-08	0.0068015	2.72E-03	2.07E-04	5.61E-04	5.70E-04	2.99E-05	5.71E-05	3.43E-04	4.49E-03
3665	471363.09, 3851377.25	2.72E-03	1.62E-04	5.32E-04	2.58E-04	1.42E-05	1.71E-04	5.21E-08	0.00386162	1.52E-03	1.62E-04	5.32E-04	2.58E-04	1.42E-05	2.78E-05	1.71E-04	2.69E-03
3666	471863.09, 3851377.25	2.90E-03	1.88E-04	7.77E-04	3.15E-04	1.69E-05	2.03E-04	5.91E-08	0.00439546	1.64E-03	1.88E-04	7.77E-04	3.15E-04	1.69E-05	3.28E-05	2.03E-04	3.17E-03
3667	472363.09, 3851377.25	2.97E-03	1.94E-04	8.61E-04	3.22E-04	1.75E-05	2.08E-04	6.03E-08	0.00456903	1.68E-03	1.94E-04	8.61E-04	3.22E-04	1.75E-05	3.32E-05	2.08E-04	3.31E-03
3668	472863.09, 3851377.25	3.03E-03	2.02E-04	9.59E-04	3.31E-04	1.81E-05	2.13E-04	6.21E-08	0.00475152	1.72E-03	2.02E-04	9.59E-04	3.31E-04	1.81E-05	3.30E-05	2.13E-04	3.47E-03
3669	473363.09, 3851377.25	3.02E-03	1.95E-04	9.08E-04	3.05E-04	1.73E-05	1.99E-04	6.01E-08	0.004649	1.71E-03	1.95E-04	9.08E-04	3.05E-04	1.73E-05	3.03E-05	1.99E-04	3.36E-03
3670	473863.09, 3851377.25	3.15E-03	2.09E-04	1.08E-03	3.23E-04	1.82E-05	2.13E-04	6.38E-08	0.00499719	1.79E-03	2.09E-04	1.08E-03	3.23E-04	1.82E-05	3.07E-05	2.13E-04	3.66E-03
3671	474363.09, 3851377.25	3.37E-03	2.49E-04	1.49E-03	3.88E-04	2.05E-05	2.54E-04	7.25E-08	0.00577613	1.94E-03	2.49E-04	1.49E-03	3.88E-04	2.05E-05	3.39E-05	2.54E-04	4.38E-03
3672	474863.09, 3851377.25	3.56E-03	2.83E-04	1.82E-03	4.50E-04	2.25E-05	2.91E-04	8.08E-08	0.00642603	2.08E-03	2.83E-04	1.82E-03	4.50E-04	2.25E-05	3.64E-05	2.91E-04	4.98E-03
3673	475363.09, 3851377.25	3.71E-03	3.11E-04	2.07E-03	5.06E-04	2.45E-05	3.15E-04	8.88E-08	0.00693433	2.18E-03	3.11E-04	2.07E-03	5.06E-04	2.45E-05	3.91E-05	3.15E-04	5.45E-03
3674	475863.09, 3851377.25	3.88E-03	3.37E-04	2.32E-03	5.55E-04	2.64E-05	3.29E-04	9.36E-08	0.00744358	2.30E-03	3.37E-04	2.32E-03	5.55E-04	2.64E-05	4.24E-05	3.29E-04	5.90E-03
3675	476363.09, 3851377.25	4.15E-03	3.69E-04	2.62E-03	6.05E-04	2.86E-05	3.41E-04	9.64E-08	0.00810951	2.46E-03	3.69E-04	2.62E-03	6.05E-04	2.86E-05	4.70E-05	3.41E-04	6.47E-03
3676	476863.09, 3851377.25	4.41E-03	4.05E-04	3.00E-03	6.44E-04	3.07E-05	3.40E-04	9.81E-08	0.00882733	2.64E-03	4.05E-04	3.00E-03	6.44E-04	3.07E-05	5.22E-05	3.40E-04	7.11E-03
3677	477363.09, 3851377.25	4.63E-03	4.45E-04	3.43E-03	6.96E-04	3.38E-05	3.56E-04	1.04E-07	0.00959201	2.79E-03	4.45E-04	3.43E-03	6.96E-04	3.38E-05	5.65E-05	3.56E-04	7.81E-03
3678	477863.09, 3851377.25	4.96E-03	5.03E-04	3.99E-03	7.21E-04	3.62E-05	3.60E-04	1.08E-07	0.01056808	3.02E-03	5.03E-04	3.99E-03	7.21E-04	3.62E-05	5.95E-05	3.60E-04	8.69E-03
3679	478363.09, 3851377.25	5.40E-03	5.83E-04	4.74E-03	7.30E-04	3.81E-05	3.90E-04	1.10E-07	0.01188051	3.33E-03	5.83E-04	4.74E-03	7.30E-04	3.81E-05	6.09E-05	3.90E-04	9.87E-03
3680	478863.09, 3851377.25	6.03E-03	7.05E-04	5.75E-03	7.29E-04	3.95E-05	4.69E-04	1.14E-07	0.01373164	3.79E-03	7.05E-04	5.75E-03	7.29E-04	3.95E-05	6.11E-05	4.69E-04	1.15E-02
3681	479363.09, 3851377.25	7.01E-03	9.11E-04	7.40E-03	7.44E-04	4.03E-05	5.19E-04	1.16E-07	0.01662619	4.51E-03	9.11E-04	7.40E-03	7.44E-04	4.03E-05	6.06E-05	5.19E-04	1.42E-02
3682	479863.09, 3851377.25	9.13E-03	1.34E-03	1.03E-02	9.25E-04	4.13E-05	5.11E-04	1.18E-07	0.02228986	6.06E-03	1.34E-03	1.03E-02	9.25E-04	4.13E-05	5.88E-05	5.11E-04	1.93E-02
3683	480363.09, 3851377.25	1.70E-02	2.90E-03	1.86E-02	1.12E-03	4.71E-05	4.94E-04	1.21E-07	0.04012262	1.18E-02	2.90E-03	1.86E-02	1.12E-03	4.71E-05	6.47E-05	4.94E-04	3.50E-02
3684	480863.09, 3851377.25	1.32E-01	2.56E-02	9.17E-02	1.10E-03	5.56E-05	4.98E-04	1.29E-07	0.25088406	9.51E-02	2.56E-02	9.17E-02	1.10E-03	5.56E-05	8.69E-05	4.98E-04	2.14E-01
3685	481363.09, 3851377.25	3.04E-02	4.67E-03	2.98E-02	9.96E-04	5.85E-05	4.58E-04	1.41E-07	0.06638052	2.04E-02	4.67E-03	2.98E-02	9.96E-04	5.85E-05	9.78E-05	4.58E-04	5.65E-02
3686	481863.09, 3851377.25	1.72E-02	2.26E-03	1.53E-02	8.21E-04	5.20E-05	3.86E-04	1.41E-07	0.03603463	1.11E-02	2.26E-03	1.53E-02	8.21E-04	5.20E-05	8.31E-05	3.86E-04	3.00E-02
3687	482363.09, 3851377.25	1.30E-02	1.47E-03	1.01E-02	6.94E-04	4.49E-05	3.36E-04	1.34E-07	0.02560899	8.09E-03	1.47E-03	1.01E-02	6.94E-04	4.49E-05	7.10E-05	3.36E-04	2.08E-02
3688	482863.09, 3851377.25	1.01E-02	1.02E-03	6.75E-03	4.98E-04	3.49E-05	2.71E-04	1.09E-07	0.01866595	6.14E-03	1.02E-03	6.75E-03	4.98E-04	3.49E-05	5.86E-05	2.71E-04	1.48E-02
3689	483363.09, 3851377.25	8.01E-03	7.79E-04	4.88E-03	3.56E-04	2.47E-05	2.05E-04	8.95E-08	0.014252	4.84E-03	7.79E-04	4.88E-03	3.56E-04	2.47E-05	4.03E-05	2.05E-04	1.11E-02
3690	483863.09, 3851377.25	7.03E-03	6.66E-04	4.07E-03	3.09E-04	2.16E-05	1.85E-04	8.12E-08	0.01228175	4.23E-03	6.66E-04	4.07E-03	3.09E-04	2.16E-05	3.43E-05	1.85E-04	9.51E-03
3691	484363.09, 3851377.25	7.16E-03	6.62E-04	4.26E-03	3.73E-04	2.70E-05	2.25E-04	9.77E-08	0.01271609	4.28E-03	6.62E-04	4.26E-03	3.73E-04	2.70E-05	4.33E-05	2.25E-04	9.88E-03
3692	484863.09, 3851377.25	6.24E-03	5.51E-04	3.31E-03	2.82E-04	1.87E-05	1.76E-04	7.77E-08	0.01056935	3.70E-03	5.51E-04	3.31E-03	2.82E-04	1.87E-05	3.15E-05	1.76E-04	8.07E-03
3693	485363.09, 3851377.25	6.56E-03	5.63E-04	3.51E-03	3.54E-04	2.50E-05	2.09E-04	9.70E-08	0.01121939	3.87E-03	5.63E-04	3.51E-03	3.54E-04	2.50E-05	3.90E-05	2.09E-04	8.57E-03
3694	485863.09, 3851377.25	6.14E-03	5.00E-04	2.96E-03	3.10E-04	2.03E-05	1.96E-04	8.16E-08	0.01012099	3.59E-03	5.00E-04	2.96E-03	3.10E-04	2.03E-05	3.11E-05	1.96E-04	7.60E-03
3695	486363.09, 3851377.25	6.16E-03	4.84E-04	2.84E-03	3.42E-04	2.21E-05	2.06E-04	8.95E-08	0.01005436	3.58E-03	4.84E-04	2.84E-03	3.42E-04	2.21E-05	3.09E-05	2.06E-04	7.51E-03
3696	486863.09, 3851377.25	5.88E-03	4.51E-04	2.55E-03	3.39E-04	2.09E-05	1.98E-04	8.22E-08	0.00943464	3.40E-03	4.51E-04	2.55E-03	3.39E-04	2.09E-05	2.85E-05	1.98E-04	6.99E-03
3697	487363.09, 3851377.25	5.40E-03	4.05E-04	2.15E-03	3.11E-04	1.80E-05	1.69E-04	6.53E-08	0.00844813	3.11E-03	4.05E-04	2.15E-03	3.11E-04	1.80E-05	2.33E-05	1.69E-04	6.19E-03
3698	487863.09, 3851377.25	5.47E-03	3.96E-04	2.07E-03	3.53E-04	2.01E-05	1.74E-04	6.64E-08	0.00848025	3.14E-03	3.96E-04	2.07E-03	3.53E-04	2.01E-05	2.63E-05	1.74E-04	6.17E-03
3699	488363.09, 3851377.25	5.47E-03	3.79E-04	1.91E-03	3.79E-04	2.09E-05	1.85E-04	6.32E-08	0.00834933	3.12E-03	3.79E-04	1.91E-03	3.79E-04	2.09E-05	2.82E-05	1.85E-04	6.02E-03
3700	488863.09, 3851377.25	5.44E-03	3.60E-04	1.74E-03	3.98E-04	2.13E-05	1.95E-04	5.73E-08	0.00815572	3.08E-03	3.60E-04	1.74E-03	3.98E-04	2.13E-05	2.84E-05	1.95E-04	5.82E-03
3701	489363.09, 3851377.25	5.39E-03	3.44E-04	1.59E-03	4.18E-04	2.19E-05	2.01E-04	5.39E-08	0.00796342	3.04E-03	3.44E-04	1.59E-03	4.18E-04	2.19E-05	2.89E-05	2.01E-04	5.64E-03
3702	489863.09, 3851377.25	5.33E-03	3.26E-04	1.44E-03	4.35E-04	2.26E-05	2.04E-04	4.75E-08	0.00775143	2.98E-03	3.26E-04	1.44E-03	4.35E-04	2.26E-05	2.97E-05	2.04E-04	5.44E-03
3703	490363.09, 3851377.25	5.29E-03	3.11E-04	1.31E-03	4.52E-04	2.34E-05	2.12E-04	4.53E-08	0.0075979	2.95E-03	3.11E-04	1.31E-03	4.52E-04	2.34E-05	3.12E-05	2.12E-04	5.29E-03
3704	490863.09, 3851377.25	5.23E-03	2.96E-04	1.19E-03	4.64E-04	2.39E-05	2.18E-04	4.03E-08	0.00741405	2.90E-03	2.96E-04	1.19E-03	4.64E-04	2.39E-05	3.32E-05	2.18E-04	5.12E-03
3705	491363.09, 3851377.25	5.10E-03	2.80E-04	1.05E-03	4.63E-04	2.37E-05	2.19E-04	3.67E-08	0.00714123	2.82E-03	2.80E-04	1.05E-03	4.63E-04	2.37E-05	3.42E-05	2.19E-04	4.89E-03
3706	491863.09, 3851377.25	5.00E-03	2.66E-04	9.40E-04	4.64E-04	2.37E-05	2.22E-04	3.34E-08	0.00691713	2.75E-03	2.66E-04	9.40E-04	4.64E-04	2.37E-05	3.50E-05	2.22E-04	4.70E-03
3707	492363.09, 3851377.25	4.98E-03	2.54E-04	8.55E-04	4.70E-04	2.40E-05	2.31E-04	3.06E-08	0.00681392	2.73E-03	2.54E-04	8.55E-04	4.70E-04	2.40E-05	3.67E-05	2.31E-04	4.60E-03
3708	492863.09, 3851377.25	4.93E-03	2.42E-04	7.66E-04	4.65E-04	2.37E-05	2.38E-04	2.80E-08	0.00666199	2.69E-03	2.42E-04	7.66E-04	4.65E-04	2.37E-05	3.79E-05	2.38E-04	4.46E-03
3709	493363.09, 3851377.25	4.65E-03	2.22E-04	6.28E-04	4.31E-04	2.16E-05	2.35E-04	2.62E-08	0.00618582	2.53E-03	2.22E-04	6.28E-04	4.31E-04	2.16E-05	3.62E-05	2.35E-04	4.10E-03
3710	493863.09, 3851377.25	4.83E-03	2.24E-04	6.42E-04	4.70E-04	2.39E-05	2.59E-04	2.76E-08	0.00645151	2.62E-03	2.24E-04	6.42E-04	4.70E-04	2.39E-05	4.12E-05	2.59E-04	4.28E-03
3711	494363.09, 3851377.25	5.26E-03	2.35E-04	7.16E-04	5.50E-04	2.87E-05	3.01E-04	3.08E-08	0.0070872	2.84E-03	2.35E-04	7.16E-04	5.50E-04	2.87E-05	5.05E-05	3.01E-04	4.72E-03
3712	494863.09, 3851377.25	5.35E-03	2.32E-04	6.95E-04	5.73E-04	3.01E-05	3.19E-04	3.45E-08	0.00719503	2.88E-03	2.32E-04	6.95E-04	5.73E-04	3.01E-05	5.41E-05	3.19E-04	4.78E-03
3713	495363.09, 3851377.25	5.74E-03	2.41E-04	7.47E-04	6.55E-04	3.51E-05	3.60E-04	4.14E-08	0.00777506	3.08E-03	2.41E-04	7.47E-04	6.55E-04	3.51E-05	6.39E-05	3.60E-04	5.18E-03
3714	495863.09, 3851377.25	5.86E-03	2.40E-04	7.37E-04	6.88E-04	3.71E-05	3.77E-04	4.68E-08	0.00793618	3.14E-03	2.40E-04	7.37E-04	6.88E-04	3.71E-05	6.85E-05	3.77E-04	5.28E-03
3715	496363.09, 3851377.25	5.91E-03	2.36E-04	7.13E-04	7.05E-04	3.80E-05	3.87E-04	5.23E-08	0.00798846	3.16E-03	2.36E-04	7.13E-04	7.05E-04	3.80E-05	7.10E-05	3.87E-04	5.31E-03
3716	496863.09, 3851377.25	5.90E-03	2.32E-04	6.82E-04	7.11E-04	3.83E-05	3.96E-04	5.37E-08	0.00796049	3.15E-03	2.32E-04	6.82E-04	7.11E-04	3.83E-05	7.20E-05	3.96E-04	5.28E-03

3717	497363.09, 3851377.25	5.85E-03	2.27E-04	6.50E-04	7.13E-04	3.83E-05	4.05E-04	5.40E-08	0.00788415	3.12E-03	2.27E-04	6.50E-04	7.13E-04	3.83E-05	7.25E-05	4.05E-04	5.22E-03
3718	497863.09, 3851377.25	5.76E-03	2.21E-04	6.13E-04	7.02E-04	3.76E-05	4.08E-04	5.52E-08	0.00773965	3.06E-03	2.21E-04	6.13E-04	7.02E-04	3.76E-05	7.18E-05	4.08E-04	5.12E-03
3719	498363.09, 3851377.25	5.60E-03	2.11E-04	5.61E-04	6.69E-04	3.54E-05	4.02E-04	5.45E-08	0.00747757	2.98E-03	2.11E-04	5.61E-04	6.69E-04	3.54E-05	6.84E-05	4.02E-04	4.92E-03
3720	471363.09, 3851877.25	2.87E-03	1.58E-04	5.39E-04	2.92E-04	1.58E-05	1.87E-04	5.87E-08	0.00405865	1.59E-03	1.58E-04	5.39E-04	2.92E-04	1.58E-05	2.90E-05	1.87E-04	2.81E-03
3721	471863.09, 3851877.25	2.91E-03	1.59E-04	5.42E-04	2.84E-04	1.56E-05	1.84E-04	5.69E-08	0.00409545	1.61E-03	1.59E-04	5.42E-04	2.84E-04	1.56E-05	2.92E-05	1.84E-04	2.82E-03
3722	472363.09, 3851877.25	3.03E-03	1.74E-04	6.84E-04	3.19E-04	1.74E-05	2.02E-04	6.06E-08	0.00442321	1.68E-03	1.74E-04	6.84E-04	3.19E-04	1.74E-05	3.29E-05	2.02E-04	3.11E-03
3723	472863.09, 3851877.25	3.14E-03	1.87E-04	8.27E-04	3.50E-04	1.90E-05	2.20E-04	6.42E-08	0.00474571	1.76E-03	1.87E-04	8.27E-04	3.50E-04	1.90E-05	3.62E-05	2.20E-04	3.39E-03
3724	473363.09, 3851877.25	3.17E-03	1.82E-04	7.95E-04	3.30E-04	1.84E-05	2.12E-04	6.18E-08	0.00470932	1.76E-03	1.82E-04	7.95E-04	3.30E-04	1.84E-05	3.53E-05	2.12E-04	3.34E-03
3725	473863.09, 3851877.25	3.24E-03	1.87E-04	8.63E-04	3.40E-04	1.91E-05	2.16E-04	6.32E-08	0.0048626	1.80E-03	1.87E-04	8.63E-04	3.40E-04	1.91E-05	3.59E-05	2.16E-04	3.46E-03
3726	474363.09, 3851877.25	3.41E-03	2.12E-04	1.13E-03	3.97E-04	2.19E-05	2.46E-04	7.08E-08	0.0054158	1.91E-03	2.12E-04	1.13E-03	3.97E-04	2.19E-05	3.91E-05	2.46E-04	3.96E-03
3727	474863.09, 3851877.25	3.60E-03	2.41E-04	1.42E-03	4.56E-04	2.43E-05	2.85E-04	7.85E-08	0.00602453	2.04E-03	2.41E-04	1.42E-03	4.56E-04	2.43E-05	4.13E-05	2.85E-04	4.51E-03
3728	475363.09, 3851877.25	3.76E-03	2.63E-04	1.64E-03	4.97E-04	2.58E-05	3.12E-04	8.41E-08	0.00650202	2.15E-03	2.63E-04	1.64E-03	4.97E-04	2.58E-05	4.22E-05	3.12E-04	4.93E-03
3729	475863.09, 3851877.25	3.96E-03	2.86E-04	1.84E-03	5.36E-04	2.70E-05	3.26E-04	8.99E-08	0.00696963	2.27E-03	2.86E-04	1.84E-03	5.36E-04	2.70E-05	4.33E-05	3.26E-04	5.33E-03
3730	476363.09, 3851877.25	4.15E-03	2.99E-04	1.94E-03	5.54E-04	2.75E-05	3.13E-04	9.36E-08	0.00727764	2.38E-03	2.99E-04	1.94E-03	5.54E-04	2.75E-05	4.43E-05	3.13E-04	5.55E-03
3731	476863.09, 3851877.25	4.36E-03	3.30E-04	2.25E-03	6.27E-04	3.02E-05	3.39E-04	9.98E-08	0.00792848	2.52E-03	3.30E-04	2.25E-03	6.27E-04	3.02E-05	4.89E-05	3.39E-04	6.14E-03
3732	477363.09, 3851877.25	4.57E-03	3.62E-04	2.59E-03	7.03E-04	3.34E-05	3.62E-04	1.04E-07	0.00861793	2.66E-03	3.62E-04	2.59E-03	7.03E-04	3.34E-05	5.55E-05	3.62E-04	6.76E-03
3733	477863.09, 3851877.25	4.81E-03	3.97E-04	2.95E-03	7.69E-04	3.70E-05	3.72E-04	1.09E-07	0.00932955	2.82E-03	3.97E-04	2.95E-03	7.69E-04	3.70E-05	6.27E-05	3.72E-04	7.41E-03
3734	478363.09, 3851877.25	5.08E-03	4.32E-04	3.31E-03	7.97E-04	4.00E-05	3.68E-04	1.12E-07	0.01002638	3.00E-03	4.32E-04	3.31E-03	7.97E-04	4.00E-05	6.86E-05	3.68E-04	8.01E-03
3735	478863.09, 3851877.25	5.34E-03	4.97E-04	3.96E-03	8.50E-04	4.41E-05	4.11E-04	1.18E-07	0.01110015	3.20E-03	4.97E-04	3.96E-03	8.50E-04	4.41E-05	7.21E-05	4.11E-04	9.03E-03
3736	479363.09, 3851877.25	5.68E-03	5.87E-04	4.75E-03	8.90E-04	4.74E-05	5.24E-04	1.25E-07	0.01248183	3.47E-03	5.87E-04	4.75E-03	8.90E-04	4.74E-05	7.34E-05	5.24E-04	1.03E-02
3737	479863.09, 3851877.25	6.28E-03	7.13E-04	5.75E-03	9.36E-04	4.90E-05	6.00E-04	1.29E-07	0.01432263	3.92E-03	7.13E-04	5.75E-03	9.36E-04	4.90E-05	7.31E-05	6.00E-04	1.20E-02
3738	480363.09, 3851877.25	7.44E-03	9.30E-04	7.49E-03	1.13E-03	5.04E-05	5.84E-04	1.31E-07	0.01761842	4.74E-03	9.30E-04	7.49E-03	1.13E-03	5.04E-05	7.13E-05	5.84E-04	1.50E-02
3739	480863.09, 3851877.25	9.93E-03	1.45E-03	1.09E-02	1.35E-03	5.71E-05	5.71E-04	1.34E-07	0.0242555	6.59E-03	1.45E-03	1.09E-02	1.35E-03	5.71E-05	7.58E-05	5.71E-04	2.10E-02
3740	481363.09, 3851877.25	3.29E-02	6.52E-03	2.64E-02	1.35E-03	6.74E-05	5.77E-04	1.44E-07	0.0678678	2.39E-02	6.52E-03	2.64E-02	1.35E-03	6.74E-05	1.03E-04	5.77E-04	5.90E-02
3741	481863.09, 3851877.25	2.60E-02	4.49E-03	2.92E-02	1.18E-03	7.15E-05	5.16E-04	1.56E-07	0.06149071	1.81E-02	4.49E-03	2.92E-02	1.18E-03	7.15E-05	1.17E-04	5.16E-04	5.37E-02
3742	482363.09, 3851877.25	1.52E-02	1.79E-03	1.15E-02	8.39E-04	5.75E-05	3.83E-04	1.45E-07	0.02974996	9.56E-03	1.79E-03	1.15E-02	8.39E-04	5.75E-05	9.14E-05	3.83E-04	2.42E-02
3743	482863.09, 3851877.25	1.10E-02	1.11E-03	6.98E-03	5.51E-04	3.98E-05	2.90E-04	1.20E-07	0.01998181	6.70E-03	1.11E-03	6.98E-03	5.51E-04	3.98E-05	6.41E-05	2.90E-04	1.57E-02
3744	483363.09, 3851877.25	9.60E-03	9.26E-04	6.14E-03	5.51E-04	4.00E-05	2.88E-04	1.18E-07	0.01754588	5.79E-03	9.26E-04	6.14E-03	5.51E-04	4.00E-05	6.42E-05	2.88E-04	1.38E-02
3745	483863.09, 3851877.25	8.54E-03	7.78E-04	5.12E-03	4.79E-04	3.63E-05	2.57E-04	1.15E-07	0.01520623	5.09E-03	7.78E-04	5.12E-03	4.79E-04	3.63E-05	5.63E-05	2.57E-04	1.18E-02
3746	484363.09, 3851877.25	8.18E-03	7.25E-04	4.85E-03	5.16E-04	3.84E-05	2.78E-04	1.19E-07	0.01459032	4.85E-03	7.25E-04	4.85E-03	5.16E-04	3.84E-05	5.96E-05	2.78E-04	1.13E-02
3747	484863.09, 3851877.25	7.65E-03	6.38E-04	4.14E-03	4.62E-04	3.29E-05	2.53E-04	1.13E-07	0.01316611	4.49E-03	6.38E-04	4.14E-03	4.62E-04	3.29E-05	5.27E-05	2.53E-04	1.01E-02
3748	485363.09, 3851877.25	7.48E-03	5.93E-04	3.79E-03	4.78E-04	3.36E-05	2.49E-04	1.15E-07	0.0126254	4.35E-03	5.93E-04	3.79E-03	4.78E-04	3.36E-05	5.00E-05	2.49E-04	9.55E-03
3749	485863.09, 3851877.25	7.37E-03	5.53E-04	3.45E-03	4.94E-04	3.36E-05	2.59E-04	1.11E-07	0.01215752	4.25E-03	5.53E-04	3.45E-03	4.94E-04	3.36E-05	4.83E-05	2.59E-04	9.09E-03
3750	486363.09, 3851877.25	7.04E-03	4.97E-04	2.95E-03	4.57E-04	2.93E-05	2.41E-04	9.99E-08	0.01121692	4.02E-03	4.97E-04	2.95E-03	4.57E-04	2.93E-05	3.79E-05	2.41E-04	8.24E-03
3751	486863.09, 3851877.25	6.81E-03	4.65E-04	2.66E-03	4.73E-04	2.91E-05	2.38E-04	9.81E-08	0.0106741	3.87E-03	4.65E-04	2.66E-03	4.73E-04	2.91E-05	3.56E-05	2.38E-04	7.77E-03
3752	487363.09, 3851877.25	6.58E-03	4.37E-04	2.40E-03	4.91E-04	2.88E-05	2.23E-04	9.04E-08	0.0101552	3.73E-03	4.37E-04	2.40E-03	4.91E-04	2.88E-05	3.45E-05	2.23E-04	7.34E-03
3753	487863.09, 3851877.25	6.19E-03	3.96E-04	2.02E-03	4.67E-04	2.53E-05	2.04E-04	7.11E-08	0.00929929	3.49E-03	3.96E-04	2.02E-03	4.67E-04	2.53E-05	3.10E-05	2.04E-04	6.63E-03
3754	488363.09, 3851877.25	6.18E-03	3.78E-04	1.85E-03	4.99E-04	2.63E-05	2.17E-04	6.64E-08	0.00914815	3.46E-03	3.78E-04	1.85E-03	4.99E-04	2.63E-05	3.25E-05	2.17E-04	6.46E-03
3755	488863.09, 3851877.25	6.00E-03	3.53E-04	1.62E-03	5.07E-04	2.62E-05	2.22E-04	5.57E-08	0.00872851	3.34E-03	3.53E-04	1.62E-03	5.07E-04	2.62E-05	3.15E-05	2.22E-04	6.10E-03
3756	489363.09, 3851877.25	5.86E-03	3.31E-04	1.44E-03	5.18E-04	2.65E-05	2.26E-04	5.11E-08	0.00839391	3.24E-03	3.31E-04	1.44E-03	5.18E-04	2.65E-05	3.23E-05	2.26E-04	5.81E-03
3757	489863.09, 3851877.25	5.79E-03	3.14E-04	1.30E-03	5.36E-04	2.73E-05	2.34E-04	4.57E-08	0.00819958	3.19E-03	3.14E-04	1.30E-03	5.36E-04	2.73E-05	3.47E-05	2.34E-04	5.64E-03
3758	490363.09, 3851877.25	5.82E-03	3.03E-04	1.21E-03	5.66E-04	2.91E-05	2.50E-04	4.46E-08	0.0081685	3.19E-03	3.03E-04	1.21E-03	5.66E-04	2.91E-05	3.89E-05	2.50E-04	5.58E-03
3759	490863.09, 3851877.25	5.89E-03	2.94E-04	1.13E-03	5.98E-04	3.11E-05	2.65E-04	4.23E-08	0.00820969	3.22E-03	2.94E-04	1.13E-03	5.98E-04	3.11E-05	4.32E-05	2.65E-04	5.58E-03
3760	491363.09, 3851877.25	5.97E-03	2.88E-04	1.07E-03	6.31E-04	3.32E-05	2.80E-04	4.23E-08	0.0082768	3.25E-03	2.88E-04	1.07E-03	6.31E-04	3.32E-05	4.77E-05	2.80E-04	5.60E-03
3761	491863.09, 3851877.25	6.01E-03	2.80E-04	1.01E-03	6.54E-04	3.46E-05	2.95E-04	3.97E-08	0.00828457	3.26E-03	2.80E-04	1.01E-03	6.54E-04	3.46E-05	5.18E-05	2.95E-04	5.58E-03
3762	492363.09, 3851877.25	5.89E-03	2.67E-04	9.08E-04	6.44E-04	3.39E-05	3.02E-04	3.53E-08	0.00804466	3.18E-03	2.67E-04	9.08E-04	6.44E-04	3.39E-05	5.34E-05	3.02E-04	5.39E-03
3763	492863.09, 3851877.25	5.47E-03	2.40E-04	7.24E-04	5.73E-04	2.95E-05	2.90E-04	3.03E-08	0.00732914	2.95E-03	2.40E-04	7.24E-04	5.73E-04	2.95E-05	4.90E-05	2.90E-04	4.85E-03
3764	493363.09, 3851877.25	5.94E-03	2.53E-04	8.05E-04	6.73E-04	3.57E-05	3.40E-04	3.67E-08	0.00805057	3.19E-03	2.53E-04	8.05E-04	6.73E-04	3.57E-05	6.08E-05	3.40E-04	5.36E-03
3765	493863.09, 3851877.25	6.46E-03	2.66E-04	8.73E-04	7.83E-04	4.26E-05	3.97E-04	4.20E-08	0.00882592	3.46E-03	2.66E-04	8.73E-04	7.83E-04	4.26E-05	7.43E-05	3.97E-04	5.90E-03
3766	494363.09, 3851877.25	6.33E-03	2.54E-04	7.98E-04	7.64E-04	4.14E-05	4.03E-04	4.19E-08	0.00859031	3.38E-03	2.54E-04	7.98E-04	7.64E-04	4.14E-05	7.42E-05	4.03E-04	5.72E-03
3767	494863.09, 3851877.25	6.64E-03	2.58E-04	8.17E-04	8.36E-04	4.58E-05	4.40E-04	4.81E-08	0.00903693	3.54E-03	2.58E-04	8.17E-04	8.36E-04	4.58E-05	8.35E-05	4.40E-04	6.02E-03
3768	495363.09, 3851877.25	6.81E-03	2.58E-04	8.07E-04	8.83E-04	4.85E-05	4.61E-04	5.62E-08	0.00926488	3.62E-03	2.58E-04	8.07E-04	8.83E-04	4.85E-05	8.93E-05	4.61E-04	6.16E-03
3769	495863.09, 3851877.25	6.87E-03	2.55E-04	7.86E-04	9.09E-04	5.00E-05	4.78E-04	6.26E-08	0.0093511	3.65E-03	2.55E-04	7.86E-04	9.09E-04	5.00E-05	9.30E-05	4.78E-04	6.22E-03
3770	496363.09, 3851877.25	6.79E-03	2.49E-04	7.42E-04	8.98E-04	4.92E-05	4.82E-04	6.52E-08	0.00921469	3.60E-03	2.49E-04	7.42E-04	8.98E-04	4.92E-05	9.26E-05	4.82E-04	6.11E-03

3771	496863.09, 3851877.25	6.69E-03	2.42E-04	6.99E-04	8.80E-04	4.80E-05	4.85E-04	6.39E-08	0.00903847	3.54E-03	2.42E-04	6.99E-04	8.80E-04	4.80E-05	9.14E-05	4.85E-04	5.98E-03
3772	497363.09, 3851877.25	6.55E-03	2.35E-04	6.55E-04	8.55E-04	4.64E-05	4.84E-04	6.47E-08	0.00882456	3.46E-03	2.35E-04	6.55E-04	8.55E-04	4.64E-05	8.96E-05	4.84E-04	5.83E-03
3773	497863.09, 3851877.25	6.28E-03	2.23E-04	5.95E-04	8.03E-04	4.31E-05	4.71E-04	6.34E-08	0.00841397	3.32E-03	2.23E-04	5.95E-04	8.03E-04	4.31E-05	8.42E-05	4.71E-04	5.54E-03
3774	498363.09, 3851877.25	6.05E-03	2.13E-04	5.41E-04	7.56E-04	4.02E-05	4.60E-04	6.27E-08	0.00806544	3.20E-03	2.13E-04	5.41E-04	7.56E-04	4.02E-05	7.91E-05	4.60E-04	5.29E-03
3775	471363.09, 3852377.25	2.86E-03	1.39E-04	4.16E-04	2.68E-04	1.47E-05	1.80E-04	5.79E-08	0.00388074	1.56E-03	1.39E-04	4.16E-04	2.68E-04	1.47E-05	2.65E-05	1.80E-04	2.61E-03
3776	471863.09, 3852377.25	3.00E-03	1.51E-04	5.19E-04	3.06E-04	1.68E-05	1.96E-04	6.29E-08	0.00418942	1.64E-03	1.51E-04	5.19E-04	3.06E-04	1.68E-05	3.00E-05	1.96E-04	2.86E-03
3777	472363.09, 3852377.25	3.11E-03	1.59E-04	5.98E-04	3.35E-04	1.83E-05	2.08E-04	6.56E-08	0.00442396	1.70E-03	1.59E-04	5.98E-04	3.35E-04	1.83E-05	3.27E-05	2.08E-04	3.06E-03
3778	472863.09, 3852377.25	3.21E-03	1.68E-04	6.81E-04	3.56E-04	1.96E-05	2.18E-04	6.74E-08	0.0046519	1.77E-03	1.68E-04	6.81E-04	3.56E-04	1.96E-05	3.52E-05	2.18E-04	3.24E-03
3779	473363.09, 3852377.25	3.31E-03	1.75E-04	7.42E-04	3.68E-04	2.04E-05	2.26E-04	6.79E-08	0.0048396	1.82E-03	1.75E-04	7.42E-04	3.68E-04	2.04E-05	3.72E-05	2.26E-04	3.39E-03
3780	473863.09, 3852377.25	3.40E-03	1.78E-04	7.85E-04	3.74E-04	2.09E-05	2.32E-04	6.81E-08	0.0049884	1.87E-03	1.78E-04	7.85E-04	3.74E-04	2.09E-05	3.87E-05	2.32E-04	3.50E-03
3781	474363.09, 3852377.25	3.48E-03	1.83E-04	8.35E-04	3.85E-04	2.16E-05	2.39E-04	6.92E-08	0.00514273	1.91E-03	1.83E-04	8.35E-04	3.85E-04	2.16E-05	4.06E-05	2.39E-04	3.62E-03
3782	474863.09, 3852377.25	3.72E-03	2.17E-04	1.17E-03	4.93E-04	2.62E-05	2.94E-04	8.03E-08	0.00592834	2.07E-03	2.17E-04	1.17E-03	4.93E-04	2.62E-05	4.84E-05	2.94E-04	4.33E-03
3783	475363.09, 3852377.25	3.85E-03	2.26E-04	1.27E-03	5.13E-04	2.74E-05	3.04E-04	8.29E-08	0.00618972	2.15E-03	2.26E-04	1.27E-03	5.13E-04	2.74E-05	4.95E-05	3.04E-04	4.53E-03
3784	475863.09, 3852377.25	3.99E-03	2.35E-04	1.35E-03	5.26E-04	2.85E-05	3.12E-04	8.51E-08	0.00643384	2.22E-03	2.35E-04	1.35E-03	5.26E-04	2.85E-05	4.95E-05	3.12E-04	4.72E-03
3785	476363.09, 3852377.25	4.13E-03	2.42E-04	1.38E-03	5.26E-04	2.91E-05	3.06E-04	8.64E-08	0.00660884	2.30E-03	2.42E-04	1.38E-03	5.26E-04	2.91E-05	4.84E-05	3.06E-04	4.83E-03
3786	476863.09, 3852377.25	4.33E-03	2.63E-04	1.54E-03	5.71E-04	3.08E-05	3.16E-04	9.30E-08	0.00705378	2.42E-03	2.63E-04	1.54E-03	5.71E-04	3.08E-05	4.95E-05	3.16E-04	5.20E-03
3787	477363.09, 3852377.25	4.52E-03	2.75E-04	1.65E-03	6.05E-04	3.20E-05	3.18E-04	9.92E-08	0.00739664	2.53E-03	2.75E-04	1.65E-03	6.05E-04	3.20E-05	5.08E-05	3.18E-04	5.46E-03
3788	477863.09, 3852377.25	4.56E-03	2.61E-04	1.40E-03	5.49E-04	3.00E-05	2.87E-04	9.33E-08	0.007085	2.53E-03	2.61E-04	1.40E-03	5.49E-04	3.00E-05	4.93E-05	2.87E-04	5.11E-03
3789	478363.09, 3852377.25	4.61E-03	2.58E-04	1.26E-03	5.21E-04	2.95E-05	2.75E-04	8.81E-08	0.00695551	2.55E-03	2.58E-04	1.26E-03	5.21E-04	2.95E-05	5.14E-05	2.75E-04	4.95E-03
3790	478863.09, 3852377.25	5.07E-03	3.16E-04	1.89E-03	6.98E-04	3.88E-05	3.26E-04	1.04E-07	0.00833495	2.85E-03	3.16E-04	1.89E-03	6.98E-04	3.88E-05	6.79E-05	3.26E-04	6.18E-03
3791	479363.09, 3852377.25	5.43E-03	3.67E-04	2.43E-03	8.29E-04	4.66E-05	3.67E-04	1.15E-07	0.00947813	3.08E-03	3.67E-04	2.43E-03	8.29E-04	4.66E-05	7.98E-05	3.67E-04	7.21E-03
3792	479863.09, 3852377.25	5.85E-03	4.84E-04	3.72E-03	1.05E-03	5.63E-05	5.25E-04	1.32E-07	0.01168254	3.43E-03	4.84E-04	3.72E-03	1.05E-03	5.63E-05	8.93E-05	5.25E-04	9.35E-03
3793	480363.09, 3852377.25	6.36E-03	6.24E-04	4.83E-03	1.19E-03	6.15E-05	7.02E-04	1.44E-07	0.01376549	3.85E-03	6.24E-04	4.83E-03	1.19E-03	6.15E-05	9.02E-05	7.02E-04	1.13E-02
3794	480863.09, 3852377.25	7.33E-03	8.12E-04	6.23E-03	1.42E-03	6.38E-05	6.86E-04	1.47E-07	0.0165506	4.55E-03	8.12E-04	6.23E-03	1.42E-03	6.38E-05	8.87E-05	6.86E-04	1.39E-02
3795	481363.09, 3852377.25	9.83E-03	1.32E-03	9.38E-03	1.72E-03	7.22E-05	6.72E-04	1.50E-07	0.02300327	6.39E-03	1.32E-03	9.38E-03	1.72E-03	7.22E-05	9.15E-05	6.72E-04	1.96E-02
3796	481863.09, 3852377.25	3.79E-02	7.54E-03	2.65E-02	1.70E-03	8.53E-05	6.59E-04	1.61E-07	0.07436043	2.75E-02	7.54E-03	2.65E-02	1.70E-03	8.53E-05	1.25E-04	6.59E-04	6.42E-02
3797	482363.09, 3852377.25	2.56E-02	4.18E-03	2.63E-02	1.48E-03	8.96E-05	6.19E-04	1.75E-07	0.05823736	1.75E-02	4.18E-03	2.63E-02	1.48E-03	8.96E-05	1.42E-04	6.19E-04	5.03E-02
3798	482863.09, 3852377.25	1.48E-02	1.79E-03	1.24E-02	1.23E-03	8.08E-05	5.06E-04	1.76E-07	0.03083848	9.36E-03	1.79E-03	1.24E-02	1.23E-03	8.08E-05	1.19E-04	5.06E-04	2.55E-02
3799	483363.09, 3852377.25	1.17E-02	1.10E-03	7.29E-03	8.16E-04	5.91E-05	3.82E-04	1.53E-07	0.02137135	7.02E-03	1.10E-03	7.29E-03	8.16E-04	5.91E-05	9.55E-05	3.82E-04	1.68E-02
3800	483863.09, 3852377.25	1.00E-02	8.48E-04	5.52E-03	6.39E-04	4.85E-05	3.12E-04	1.29E-07	0.01738482	5.89E-03	8.48E-04	5.52E-03	6.39E-04	4.85E-05	7.31E-05	3.12E-04	1.33E-02
3801	484363.09, 3852377.25	9.60E-03	7.78E-04	5.22E-03	7.09E-04	5.33E-05	3.32E-04	1.44E-07	0.0166967	5.60E-03	7.78E-04	5.22E-03	7.09E-04	5.33E-05	8.02E-05	3.32E-04	1.28E-02
3802	484863.09, 3852377.25	9.28E-03	7.12E-04	4.74E-03	7.56E-04	5.37E-05	3.43E-04	1.45E-07	0.01588735	5.37E-03	7.12E-04	4.74E-03	7.56E-04	5.37E-05	7.87E-05	3.43E-04	1.21E-02
3803	485363.09, 3852377.25	9.07E-03	6.57E-04	4.27E-03	8.07E-04	5.56E-05	3.42E-04	1.50E-07	0.01519788	5.20E-03	6.57E-04	4.27E-03	8.07E-04	5.56E-05	7.66E-05	3.42E-04	1.14E-02
3804	485863.09, 3852377.25	8.81E-03	5.83E-04	3.59E-03	7.55E-04	5.03E-05	3.18E-04	1.36E-07	0.01410955	4.98E-03	5.83E-04	3.59E-03	7.55E-04	5.03E-05	6.44E-05	3.18E-04	1.03E-02
3805	486363.09, 3852377.25	8.36E-03	5.09E-04	2.94E-03	6.71E-04	4.21E-05	2.88E-04	1.14E-07	0.01281747	4.68E-03	5.09E-04	2.94E-03	6.71E-04	4.21E-05	4.78E-05	2.88E-04	9.18E-03
3806	486863.09, 3852377.25	8.06E-03	4.70E-04	2.57E-03	6.78E-04	3.97E-05	2.82E-04	1.06E-07	0.01210363	4.48E-03	4.70E-04	2.57E-03	6.78E-04	3.97E-05	4.38E-05	2.82E-04	8.57E-03
3807	487363.09, 3852377.25	7.64E-03	4.29E-04	2.21E-03	6.70E-04	3.65E-05	2.63E-04	9.45E-08	0.0112477	4.23E-03	4.29E-04	2.21E-03	6.70E-04	3.65E-05	4.01E-05	2.63E-04	7.88E-03
3808	487863.09, 3852377.25	7.26E-03	3.94E-04	1.91E-03	6.69E-04	3.49E-05	2.51E-04	7.94E-08	0.01051136	4.00E-03	3.94E-04	1.91E-03	6.69E-04	3.49E-05	3.83E-05	2.51E-04	7.29E-03
3809	488363.09, 3852377.25	6.94E-03	3.64E-04	1.65E-03	6.66E-04	3.42E-05	2.55E-04	6.66E-08	0.00990801	3.81E-03	3.64E-04	1.65E-03	6.66E-04	3.42E-05	3.72E-05	2.55E-04	6.81E-03
3810	488863.09, 3852377.25	6.63E-03	3.36E-04	1.41E-03	6.55E-04	3.32E-05	2.60E-04	5.39E-08	0.00932341	3.62E-03	3.36E-04	1.41E-03	6.55E-04	3.32E-05	3.72E-05	2.60E-04	6.35E-03
3811	489363.09, 3852377.25	6.46E-03	3.14E-04	1.24E-03	6.58E-04	3.33E-05	2.68E-04	4.88E-08	0.00897118	3.52E-03	3.14E-04	1.24E-03	6.58E-04	3.33E-05	4.00E-05	2.68E-04	6.07E-03
3812	489863.09, 3852377.25	6.14E-03	2.91E-04	1.05E-03	6.33E-04	3.20E-05	2.69E-04	4.23E-08	0.00842018	3.33E-03	2.91E-04	1.05E-03	6.33E-04	3.20E-05	4.13E-05	2.69E-04	5.65E-03
3813	490363.09, 3852377.25	6.46E-03	2.94E-04	1.06E-03	7.08E-04	3.68E-05	3.00E-04	4.41E-08	0.00886221	3.49E-03	2.94E-04	1.06E-03	7.08E-04	3.68E-05	4.99E-05	3.00E-04	5.94E-03
3814	490863.09, 3852377.25	6.69E-03	2.92E-04	1.04E-03	7.69E-04	4.07E-05	3.27E-04	4.46E-08	0.00916747	3.60E-03	2.92E-04	1.04E-03	7.69E-04	4.07E-05	5.81E-05	3.27E-04	6.13E-03
3815	491363.09, 3852377.25	7.25E-03	3.04E-04	1.11E-03	8.98E-04	4.88E-05	3.79E-04	5.15E-08	0.00999454	3.89E-03	3.04E-04	1.11E-03	8.98E-04	4.88E-05	7.28E-05	3.79E-04	6.70E-03
3816	491863.09, 3852377.25	7.33E-03	2.97E-04	1.05E-03	9.28E-04	5.08E-05	4.03E-04	4.84E-08	0.01006202	3.91E-03	2.97E-04	1.05E-03	9.28E-04	5.08E-05	7.94E-05	4.03E-04	6.73E-03
3817	492363.09, 3852377.25	7.34E-03	2.89E-04	9.96E-04	9.41E-04	5.17E-05	4.25E-04	4.57E-08	0.01004606	3.91E-03	2.89E-04	9.96E-04	9.41E-04	5.17E-05	8.45E-05	4.25E-04	6.70E-03
3818	492863.09, 3852377.25	7.53E-03	2.88E-04	9.80E-04	9.97E-04	5.54E-05	4.65E-04	5.02E-08	0.01031647	4.00E-03	2.88E-04	9.80E-04	9.97E-04	5.54E-05	9.37E-05	4.65E-04	6.88E-03
3819	493363.09, 3852377.25	7.88E-03	2.93E-04	9.94E-04	1.09E-03	6.17E-05	5.23E-04	5.79E-08	0.01084792	4.18E-03	2.93E-04	9.94E-04	1.09E-03	6.17E-05	1.08E-04	5.23E-04	7.25E-03
3820	493863.09, 3852377.25	7.81E-03	2.84E-04	9.32E-04	1.08E-03	6.10E-05	5.36E-04	5.47E-08	0.01070463	4.13E-03	2.84E-04	9.32E-04	1.08E-03	6.10E-05	1.09E-04	5.36E-04	7.14E-03
3821	494363.09, 3852377.25	7.74E-03	2.76E-04	8.76E-04	1.08E-03	6.03E-05	5.42E-04	5.99E-08	0.01056927	4.09E-03	2.76E-04	8.76E-04	1.08E-03	6.03E-05	1.10E-04	5.42E-04	7.03E-03
3822	494863.09, 3852377.25	7.91E-03	2.76E-04	8.66E-04	1.13E-03	6.33E-05	5.69E-04	6.62E-08	0.01080805	4.17E-03	2.76E-04	8.66E-04	1.13E-03	6.33E-05	1.17E-04	5.69E-04	7.19E-03
3823	495363.09, 3852377.25	8.05E-03	2.75E-04	8.55E-04	1.18E-03	6.61E-05	5.98E-04	7.68E-08	0.01102097	4.24E-03	2.75E-04	8.55E-04	1.18E-03	6.61E-05	1.24E-04	5.98E-04	7.34E-03
3824	495863.09, 3852377.25	7.85E-03	2.66E-04	7.98E-04	1.14E-03	6.33E-05	5.92E-04	7.95E-08	0.01070938	4.13E-03	2.66E-04	7.98E-04	1.14E-03	6.33E-05	1.21E-04	5.92E-04	7.11E-03

3825	496363.09, 3852377.25	7.64E-03	2.56E-04	7.43E-04	1.09E-03	6.03E-05	5.85E-04	7.64E-08	0.0103787	4.02E-03	2.56E-04	7.43E-04	1.09E-03	6.03E-05	1.17E-04	5.85E-04	6.87E-03
3826	496863.09, 3852377.25	7.48E-03	2.49E-04	7.00E-04	1.06E-03	5.82E-05	5.85E-04	7.77E-08	0.01013236	3.93E-03	2.49E-04	7.00E-04	1.06E-03	5.82E-05	1.14E-04	5.85E-04	6.70E-03
3827	497363.09, 3852377.25	7.11E-03	2.36E-04	6.28E-04	9.69E-04	5.27E-05	5.58E-04	7.47E-08	0.00955647	3.74E-03	2.36E-04	6.28E-04	9.69E-04	5.27E-05	1.04E-04	5.58E-04	6.29E-03
3828	497863.09, 3852377.25	6.70E-03	2.22E-04	5.57E-04	8.82E-04	4.74E-05	5.32E-04	7.25E-08	0.00894061	3.52E-03	2.22E-04	5.57E-04	8.82E-04	4.74E-05	9.43E-05	5.32E-04	5.86E-03
3829	498363.09, 3852377.25	6.35E-03	2.10E-04	4.93E-04	8.05E-04	4.27E-05	5.08E-04	7.37E-08	0.00840552	3.34E-03	2.10E-04	4.93E-04	8.05E-04	4.27E-05	8.54E-05	5.08E-04	5.48E-03
3830	471363.09, 3852877.25	2.94E-03	1.34E-04	4.20E-04	2.81E-04	1.52E-05	1.95E-04	6.09E-08	0.0039877	1.59E-03	1.34E-04	4.20E-04	2.81E-04	1.52E-05	2.95E-05	1.95E-04	2.67E-03
3831	471863.09, 3852877.25	3.07E-03	1.43E-04	4.88E-04	3.12E-04	1.68E-05	2.08E-04	6.58E-08	0.00423841	1.67E-03	1.43E-04	4.88E-04	3.12E-04	1.68E-05	3.21E-05	2.08E-04	2.87E-03
3832	472363.09, 3852877.25	3.18E-03	1.50E-04	5.56E-04	3.47E-04	1.85E-05	2.21E-04	7.03E-08	0.00447764	1.73E-03	1.50E-04	5.56E-04	3.47E-04	1.85E-05	3.50E-05	2.21E-04	3.06E-03
3833	472863.09, 3852877.25	3.28E-03	1.57E-04	6.24E-04	3.76E-04	2.01E-05	2.33E-04	7.35E-08	0.00469118	1.79E-03	1.57E-04	6.24E-04	3.76E-04	2.01E-05	3.72E-05	2.33E-04	3.23E-03
3834	473363.09, 3852877.25	3.41E-03	1.66E-04	6.95E-04	4.07E-04	2.20E-05	2.45E-04	7.66E-08	0.00494572	1.86E-03	1.66E-04	6.95E-04	4.07E-04	2.20E-05	3.99E-05	2.45E-04	3.44E-03
3835	473863.09, 3852877.25	3.54E-03	1.75E-04	7.86E-04	4.47E-04	2.41E-05	2.62E-04	7.99E-08	0.00523964	1.94E-03	1.75E-04	7.86E-04	4.47E-04	2.41E-05	4.34E-05	2.62E-04	3.68E-03
3836	474363.09, 3852877.25	3.69E-03	1.86E-04	8.81E-04	4.87E-04	2.63E-05	2.81E-04	8.24E-08	0.00555701	2.02E-03	1.86E-04	8.81E-04	4.87E-04	2.63E-05	4.75E-05	2.81E-04	3.93E-03
3837	474863.09, 3852877.25	3.77E-03	1.83E-04	8.28E-04	4.57E-04	2.58E-05	2.70E-04	7.86E-08	0.00553361	2.06E-03	1.83E-04	8.28E-04	4.57E-04	2.58E-05	4.62E-05	2.70E-04	3.87E-03
3838	475363.09, 3852877.25	3.95E-03	1.97E-04	9.61E-04	5.05E-04	2.83E-05	2.95E-04	8.26E-08	0.0059397	2.16E-03	1.97E-04	9.61E-04	5.05E-04	2.83E-05	5.11E-05	2.95E-04	4.20E-03
3839	475863.09, 3852877.25	4.09E-03	2.04E-04	1.03E-03	5.26E-04	2.95E-05	3.04E-04	8.45E-08	0.00618324	2.24E-03	2.04E-04	1.03E-03	5.26E-04	2.95E-05	5.34E-05	3.04E-04	4.38E-03
3840	476363.09, 3852877.25	4.19E-03	2.05E-04	9.64E-04	5.02E-04	2.87E-05	2.94E-04	8.28E-08	0.00618511	2.29E-03	2.05E-04	9.64E-04	5.02E-04	2.87E-05	5.20E-05	2.94E-04	4.33E-03
3841	476863.09, 3852877.25	4.21E-03	2.00E-04	8.09E-04	4.49E-04	2.63E-05	2.70E-04	7.78E-08	0.00596168	2.29E-03	2.00E-04	8.09E-04	4.49E-04	2.63E-05	4.73E-05	2.70E-04	4.09E-03
3842	477363.09, 3852877.25	4.25E-03	1.99E-04	7.12E-04	4.18E-04	2.46E-05	2.49E-04	7.42E-08	0.00584967	2.31E-03	1.99E-04	7.12E-04	4.18E-04	2.46E-05	4.28E-05	2.49E-04	3.95E-03
3843	477863.09, 3852877.25	4.25E-03	1.94E-04	6.02E-04	3.86E-04	2.25E-05	2.29E-04	7.08E-08	0.00568397	2.30E-03	1.94E-04	6.02E-04	3.86E-04	2.25E-05	3.80E-05	2.29E-04	3.77E-03
3844	478363.09, 3852877.25	4.06E-03	1.82E-04	4.28E-04	3.23E-04	1.76E-05	2.02E-04	5.91E-08	0.00520836	2.19E-03	1.82E-04	4.28E-04	3.23E-04	1.76E-05	2.98E-05	2.02E-04	3.38E-03
3845	478863.09, 3852877.25	4.41E-03	2.05E-04	5.85E-04	3.82E-04	2.15E-05	2.29E-04	6.90E-08	0.00582995	2.39E-03	2.05E-04	5.85E-04	3.82E-04	2.15E-05	3.58E-05	2.29E-04	3.85E-03
3846	479363.09, 3852877.25	5.09E-03	2.49E-04	9.76E-04	5.32E-04	3.11E-05	2.81E-04	8.86E-08	0.00715598	2.77E-03	2.49E-04	9.76E-04	5.32E-04	3.11E-05	5.32E-05	2.81E-04	4.90E-03
3847	479863.09, 3852877.25	5.99E-03	3.44E-04	2.05E-03	1.00E-03	5.46E-05	4.17E-04	1.27E-07	0.00986042	3.33E-03	3.44E-04	2.05E-03	1.00E-03	5.46E-05	9.15E-05	4.17E-04	7.28E-03
3848	480363.09, 3852877.25	6.48E-03	4.73E-04	3.39E-03	1.45E-03	7.25E-05	6.63E-04	1.52E-07	0.01253265	3.72E-03	4.73E-04	3.39E-03	1.45E-03	7.25E-05	1.10E-04	6.63E-04	9.88E-03
3849	480863.09, 3852877.25	7.20E-03	5.85E-04	4.23E-03	1.54E-03	8.08E-05	7.81E-04	1.59E-07	0.01442273	4.21E-03	5.85E-04	4.23E-03	1.54E-03	8.08E-05	1.16E-04	7.81E-04	1.15E-02
3850	481363.09, 3852877.25	8.40E-03	7.92E-04	5.60E-03	1.92E-03	8.56E-05	8.32E-04	1.67E-07	0.01763106	5.05E-03	7.92E-04	5.60E-03	1.92E-03	8.56E-05	1.14E-04	8.32E-04	1.44E-02
3851	481863.09, 3852877.25	1.15E-02	1.33E-03	8.82E-03	2.33E-03	9.82E-05	7.96E-04	1.70E-07	0.02485964	7.19E-03	1.33E-03	8.82E-03	2.33E-03	9.82E-05	1.15E-04	7.96E-04	2.07E-02
3852	482363.09, 3852877.25	4.82E-02	9.09E-03	2.93E-02	2.26E-03	1.16E-04	7.99E-04	1.81E-07	0.0897746	3.45E-02	9.09E-03	2.93E-02	2.26E-03	1.16E-04	1.56E-04	7.99E-04	7.61E-02
3853	482863.09, 3852877.25	2.74E-02	3.90E-03	2.44E-02	2.06E-03	1.24E-04	7.59E-04	1.98E-07	0.05866285	1.81E-02	3.90E-03	2.44E-02	2.06E-03	1.24E-04	1.79E-04	7.59E-04	4.95E-02
3854	483363.09, 3852877.25	1.67E-02	1.65E-03	1.11E-02	1.58E-03	1.07E-04	5.88E-04	1.99E-07	0.03163526	1.01E-02	1.65E-03	1.11E-02	1.58E-03	1.07E-04	1.50E-04	5.88E-04	2.52E-02
3855	483863.09, 3852877.25	1.35E-02	9.59E-04	6.34E-03	1.01E-03	7.81E-05	4.23E-04	1.67E-07	0.0223232	7.71E-03	9.59E-04	6.34E-03	1.01E-03	7.81E-05	1.11E-04	4.23E-04	1.66E-02
3856	484363.09, 3852877.25	1.24E-02	8.63E-04	5.72E-03	1.20E-03	8.79E-05	4.42E-04	1.72E-07	0.02074748	7.07E-03	8.63E-04	5.72E-03	1.20E-03	8.79E-05	1.18E-04	4.42E-04	1.55E-02
3857	484863.09, 3852877.25	1.18E-02	7.79E-04	4.94E-03	1.31E-03	9.05E-05	4.52E-04	1.82E-07	0.01939961	6.68E-03	7.79E-04	4.94E-03	1.31E-03	9.05E-05	1.13E-04	4.52E-04	1.44E-02
3858	485363.09, 3852877.25	1.10E-02	6.15E-04	3.55E-03	9.90E-04	6.54E-05	3.59E-04	1.46E-07	0.01660699	6.09E-03	6.15E-04	3.55E-03	9.90E-04	6.54E-05	7.68E-05	3.59E-04	1.17E-02
3859	485863.09, 3852877.25	1.05E-02	5.41E-04	2.94E-03	9.53E-04	5.85E-05	3.24E-04	1.31E-07	0.0152687	5.72E-03	5.41E-04	2.94E-03	9.53E-04	5.85E-05	6.16E-05	3.24E-04	1.06E-02
3860	486363.09, 3852877.25	9.82E-03	4.80E-04	2.44E-03	9.14E-04	5.12E-05	3.13E-04	1.10E-07	0.01401513	5.34E-03	4.80E-04	2.44E-03	9.14E-04	5.12E-05	4.92E-05	3.13E-04	9.59E-03
3861	486863.09, 3852877.25	9.45E-03	4.46E-04	2.15E-03	9.47E-04	5.02E-05	3.24E-04	1.01E-07	0.01336585	5.12E-03	4.46E-04	2.15E-03	9.47E-04	5.02E-05	4.83E-05	3.24E-04	9.08E-03
3862	487363.09, 3852877.25	8.83E-03	4.07E-04	1.84E-03	9.32E-04	4.80E-05	3.12E-04	8.80E-08	0.01236712	4.77E-03	4.07E-04	1.84E-03	9.32E-04	4.80E-05	4.54E-05	3.12E-04	8.36E-03
3863	487863.09, 3852877.25	8.43E-03	3.79E-04	1.61E-03	9.29E-04	4.78E-05	3.09E-04	7.83E-08	0.01171278	4.55E-03	3.79E-04	1.61E-03	9.29E-04	4.78E-05	4.63E-05	3.09E-04	7.87E-03
3864	488363.09, 3852877.25	7.12E-03	3.17E-04	1.14E-03	7.65E-04	3.76E-05	2.81E-04	5.27E-08	0.00965506	3.83E-03	3.17E-04	1.14E-03	7.65E-04	3.76E-05	3.95E-05	2.81E-04	6.41E-03
3865	488863.09, 3852877.25	7.40E-03	3.15E-04	1.13E-03	8.44E-04	4.30E-05	3.19E-04	5.18E-08	0.01005307	3.97E-03	3.15E-04	1.13E-03	8.44E-04	4.30E-05	4.88E-05	3.19E-04	6.67E-03
3866	489363.09, 3852877.25	7.45E-03	3.07E-04	1.07E-03	8.83E-04	4.59E-05	3.41E-04	5.08E-08	0.01009744	3.98E-03	3.07E-04	1.07E-03	8.83E-04	4.59E-05	5.67E-05	3.41E-04	6.69E-03
3867	489863.09, 3852877.25	7.46E-03	2.99E-04	1.01E-03	9.14E-04	4.82E-05	3.65E-04	4.92E-08	0.01009188	3.98E-03	2.99E-04	1.01E-03	9.14E-04	4.82E-05	6.47E-05	3.65E-04	6.68E-03
3868	490363.09, 3852877.25	8.44E-03	3.22E-04	1.16E-03	1.13E-03	6.23E-05	4.47E-04	5.90E-08	0.01155521	4.48E-03	3.22E-04	1.16E-03	1.13E-03	6.23E-05	8.86E-05	4.47E-04	7.68E-03
3869	490863.09, 3852877.25	8.80E-03	3.24E-04	1.16E-03	1.23E-03	6.91E-05	4.92E-04	6.38E-08	0.0120706	4.66E-03	3.24E-04	1.16E-03	1.23E-03	6.91E-05	1.03E-04	4.92E-04	8.03E-03
3870	491363.09, 3852877.25	9.07E-03	3.24E-04	1.14E-03	1.31E-03	7.46E-05	5.38E-04	6.61E-08	0.01245954	4.79E-03	3.24E-04	1.14E-03	1.31E-03	7.46E-05	1.17E-04	5.38E-04	8.29E-03
3871	491863.09, 3852877.25	9.11E-03	3.19E-04	1.09E-03	1.33E-03	7.63E-05	5.69E-04	6.21E-08	0.0124974	4.80E-03	3.19E-04	1.09E-03	1.33E-03	7.63E-05	1.25E-04	5.69E-04	8.32E-03
3872	492363.09, 3852877.25	9.21E-03	3.15E-04	1.05E-03	1.37E-03	7.87E-05	6.08E-04	6.29E-08	0.01263406	4.85E-03	3.15E-04	1.05E-03	1.37E-03	7.87E-05	1.34E-04	6.08E-04	8.40E-03
3873	492863.09, 3852877.25	9.47E-03	3.17E-04	1.05E-03	1.46E-03	8.45E-05	6.74E-04	7.12E-08	0.01305194	4.97E-03	3.17E-04	1.05E-03	1.46E-03	8.45E-05	1.50E-04	6.74E-04	8.71E-03
3874	493363.09, 3852877.25	9.56E-03	3.14E-04	1.03E-03	1.51E-03	8.76E-05	7.21E-04	7.63E-08	0.01322415	5.02E-03	3.14E-04	1.03E-03	1.51E-03	8.76E-05	1.61E-04	7.21E-04	8.84E-03
3875	493863.09, 3852877.25	9.45E-03	3.05E-04	9.69E-04	1.49E-03	8.59E-05	7.22E-04	8.02E-08	0.01302852	4.95E-03	3.05E-04	9.69E-04	1.49E-03	8.59E-05	1.60E-04	7.22E-04	8.69E-03
3876	494363.09, 3852877.25	9.36E-03	2.98E-04	9.22E-04	1.48E-03	8.47E-05	7.24E-04	8.02E-08	0.01286864	4.90E-03	2.98E-04	9.22E-04	1.48E-03	8.47E-05	1.60E-04	7.24E-04	8.57E-03
3877	494863.09, 3852877.25	9.33E-03	2.93E-04	8.91E-04	1.49E-03	8.49E-05	7.38E-04	9.24E-08	0.01282586	4.88E-03	2.93E-04	8.91E-04	1.49E-03	8.49E-05	1.63E-04	7.38E-04	8.54E-03
3878	495363.09, 3852877.25	9.02E-03	2.81E-04	8.28E-04	1.41E-03	8.00E-05	7.22E-04	9.49E-08	0.01234288	4.72E-03	2.81E-04	8.28E-04	1.41E-03	8.00E-05	1.55E-04	7.22E-04	8.20E-03

3879	495863.09, 3852877.25	8.70E-03	2.70E-04	7.69E-04	1.34E-03	7.52E-05	7.07E-04	9.10E-08	0.01185652	4.55E-03	2.70E-04	7.69E-04	1.34E-03	7.52E-05	1.47E-04	7.07E-04	7.85E-03
3880	496363.09, 3852877.25	8.57E-03	2.64E-04	7.35E-04	1.31E-03	7.33E-05	7.12E-04	9.47E-08	0.01166266	4.48E-03	2.64E-04	7.35E-04	1.31E-03	7.33E-05	1.45E-04	7.12E-04	7.72E-03
3881	496863.09, 3852877.25	8.33E-03	2.55E-04	6.90E-04	1.25E-03	6.96E-05	7.02E-04	9.70E-08	0.0113034	4.35E-03	2.55E-04	6.90E-04	1.25E-03	6.96E-05	1.38E-04	7.02E-04	7.46E-03
3882	497363.09, 3852877.25	7.66E-03	2.36E-04	5.97E-04	1.09E-03	5.96E-05	6.46E-04	9.04E-08	0.0102906	4.01E-03	2.36E-04	5.97E-04	1.09E-03	5.96E-05	1.19E-04	6.46E-04	6.75E-03
3883	497863.09, 3852877.25	6.63E-03	2.07E-04	4.53E-04	8.55E-04	4.53E-05	5.53E-04	8.07E-08	0.00873942	3.47E-03	2.07E-04	4.53E-04	8.55E-04	4.53E-05	9.20E-05	5.53E-04	5.68E-03
3884	498363.09, 3852877.25	6.43E-03	2.01E-04	4.18E-04	8.07E-04	4.24E-05	5.44E-04	8.69E-08	0.00844772	3.37E-03	2.01E-04	4.18E-04	8.07E-04	4.24E-05	8.67E-05	5.44E-04	5.47E-03
3885	471363.09, 3853377.25	2.97E-03	1.30E-04	4.19E-04	2.90E-04	1.59E-05	2.10E-04	6.14E-08	0.00403761	1.60E-03	1.30E-04	4.19E-04	2.90E-04	1.59E-05	3.10E-05	2.10E-04	2.70E-03
3886	471863.09, 3853377.25	3.10E-03	1.36E-04	4.70E-04	3.17E-04	1.73E-05	2.22E-04	6.61E-08	0.00426182	1.67E-03	1.36E-04	4.70E-04	3.17E-04	1.73E-05	3.40E-05	2.22E-04	2.87E-03
3887	472363.09, 3853377.25	3.22E-03	1.42E-04	5.20E-04	3.47E-04	1.87E-05	2.34E-04	7.08E-08	0.00448671	1.74E-03	1.42E-04	5.20E-04	3.47E-04	1.87E-05	3.65E-05	2.34E-04	3.04E-03
3888	472863.09, 3853377.25	3.35E-03	1.49E-04	5.77E-04	3.78E-04	2.03E-05	2.47E-04	7.55E-08	0.00472142	1.81E-03	1.49E-04	5.77E-04	3.78E-04	2.03E-05	3.91E-05	2.47E-04	3.22E-03
3889	473363.09, 3853377.25	3.46E-03	1.54E-04	6.17E-04	4.04E-04	2.16E-05	2.56E-04	7.90E-08	0.00491121	1.87E-03	1.54E-04	6.17E-04	4.04E-04	2.16E-05	4.12E-05	2.56E-04	3.36E-03
3890	473863.09, 3853377.25	3.58E-03	1.60E-04	6.64E-04	4.34E-04	2.32E-05	2.66E-04	8.26E-08	0.00512975	1.94E-03	1.60E-04	6.64E-04	4.34E-04	2.32E-05	4.37E-05	2.66E-04	3.53E-03
3891	474363.09, 3853377.25	3.72E-03	1.65E-04	7.03E-04	4.65E-04	2.49E-05	2.77E-04	8.56E-08	0.00535238	2.01E-03	1.65E-04	7.03E-04	4.65E-04	2.49E-05	4.63E-05	2.77E-04	3.69E-03
3892	474863.09, 3853377.25	3.83E-03	1.66E-04	6.85E-04	4.61E-04	2.54E-05	2.75E-04	8.46E-08	0.00543844	2.06E-03	1.66E-04	6.85E-04	4.61E-04	2.54E-05	4.69E-05	2.75E-04	3.72E-03
3893	475363.09, 3853377.25	3.96E-03	1.70E-04	6.89E-04	4.68E-04	2.63E-05	2.78E-04	8.41E-08	0.00559111	2.13E-03	1.70E-04	6.89E-04	4.68E-04	2.63E-05	4.85E-05	2.78E-04	3.81E-03
3894	475863.09, 3853377.25	4.11E-03	1.74E-04	6.90E-04	4.70E-04	2.72E-05	2.81E-04	8.28E-08	0.00575127	2.21E-03	1.74E-04	6.90E-04	4.70E-04	2.72E-05	4.96E-05	2.81E-04	3.90E-03
3895	476363.09, 3853377.25	4.17E-03	1.73E-04	6.14E-04	4.36E-04	2.59E-05	2.68E-04	7.78E-08	0.00569154	2.24E-03	1.73E-04	6.14E-04	4.36E-04	2.59E-05	4.69E-05	2.68E-04	3.81E-03
3896	476863.09, 3853377.25	4.08E-03	1.66E-04	4.72E-04	3.75E-04	2.23E-05	2.44E-04	6.96E-08	0.00535842	2.19E-03	1.66E-04	4.72E-04	3.75E-04	2.23E-05	4.09E-05	2.44E-04	3.51E-03
3897	477363.09, 3853377.25	4.18E-03	1.71E-04	4.55E-04	3.73E-04	2.19E-05	2.43E-04	6.81E-08	0.00544668	2.24E-03	1.71E-04	4.55E-04	3.73E-04	2.19E-05	4.02E-05	2.43E-04	3.55E-03
3898	477863.09, 3853377.25	4.35E-03	1.75E-04	4.72E-04	3.90E-04	2.23E-05	2.46E-04	6.83E-08	0.00565358	2.33E-03	1.75E-04	4.72E-04	3.90E-04	2.23E-05	4.04E-05	2.46E-04	3.67E-03
3899	478363.09, 3853377.25	4.31E-03	1.70E-04	3.71E-04	3.54E-04	1.89E-05	2.22E-04	5.99E-08	0.00544346	2.30E-03	1.70E-04	3.71E-04	3.54E-04	1.89E-05	3.43E-05	2.22E-04	3.47E-03
3900	478863.09, 3853377.25	4.18E-03	1.63E-04	2.47E-04	2.97E-04	1.47E-05	1.94E-04	4.74E-08	0.0051002	2.23E-03	1.63E-04	2.47E-04	2.97E-04	1.47E-05	2.68E-05	1.94E-04	3.18E-03
3901	479363.09, 3853377.25	5.03E-03	2.03E-04	5.52E-04	4.68E-04	2.64E-05	2.65E-04	7.64E-08	0.00654427	2.69E-03	2.03E-04	5.52E-04	4.68E-04	2.64E-05	4.34E-05	2.65E-04	4.25E-03
3902	479863.09, 3853377.25	6.05E-03	2.55E-04	9.99E-04	7.14E-04	4.34E-05	3.47E-04	1.05E-07	0.0084089	3.25E-03	2.55E-04	9.99E-04	7.14E-04	4.34E-05	6.65E-05	3.47E-04	5.68E-03
3903	480363.09, 3853377.25	7.13E-03	3.52E-04	1.95E-03	1.36E-03	7.13E-05	5.17E-04	1.45E-07	0.01138051	3.89E-03	3.52E-04	1.95E-03	1.36E-03	7.13E-05	1.08E-04	5.17E-04	8.25E-03
3904	480863.09, 3853377.25	7.92E-03	3.77E-04	1.95E-03	1.40E-03	7.77E-05	5.41E-04	1.47E-07	0.01227347	4.30E-03	3.77E-04	1.95E-03	1.40E-03	7.77E-05	1.22E-04	5.41E-04	8.77E-03
3905	481363.09, 3853377.25	9.13E-03	5.42E-04	3.23E-03	2.09E-03	1.10E-04	8.10E-04	1.74E-07	0.01591595	5.10E-03	5.42E-04	3.23E-03	2.09E-03	1.10E-04	1.51E-04	8.10E-04	1.20E-02
3906	481863.09, 3853377.25	1.16E-02	8.42E-04	4.91E-03	2.93E-03	1.31E-04	1.04E-03	1.92E-07	0.0214195	6.65E-03	8.42E-04	4.91E-03	2.93E-03	1.31E-04	1.53E-04	1.04E-03	1.67E-02
3907	482363.09, 3853377.25	1.91E-02	1.64E-03	8.07E-03	3.75E-03	1.67E-04	9.67E-04	1.96E-07	0.03370844	1.13E-02	1.64E-03	8.07E-03	3.75E-03	1.67E-04	1.53E-04	9.67E-04	2.61E-02
3908	482863.09, 3853377.25	8.91E-02	1.13E-02	5.70E-02	3.91E-03	2.05E-04	1.00E-03	2.05E-07	0.16254135	5.65E-02	1.13E-02	5.70E-02	3.91E-03	2.05E-04	2.06E-04	1.00E-03	1.30E-01
3909	483363.09, 3853377.25	2.71E-02	2.19E-03	1.09E-02	3.27E-03	2.16E-04	8.33E-04	2.18E-07	0.04459529	1.58E-02	2.19E-03	1.09E-02	3.27E-03	2.16E-04	2.37E-04	8.33E-04	3.35E-02
3910	483863.09, 3853377.25	2.04E-02	1.30E-03	6.45E-03	2.71E-03	1.96E-04	6.84E-04	2.24E-07	0.03177695	1.14E-02	1.30E-03	6.45E-03	2.71E-03	1.96E-04	1.96E-04	6.84E-04	2.30E-02
3911	484363.09, 3853377.25	1.79E-02	1.01E-03	5.16E-03	2.67E-03	1.84E-04	6.44E-04	2.19E-07	0.02753544	9.85E-03	1.01E-03	5.16E-03	2.67E-03	1.84E-04	1.79E-04	6.44E-04	1.97E-02
3912	484863.09, 3853377.25	1.66E-02	7.48E-04	3.78E-03	2.08E-03	1.41E-04	5.20E-04	1.90E-07	0.02387381	8.92E-03	7.48E-04	3.78E-03	2.08E-03	1.41E-04	1.40E-04	5.20E-04	1.63E-02
3913	485363.09, 3853377.25	1.44E-02	5.74E-04	2.62E-03	1.50E-03	8.76E-05	4.00E-04	1.44E-07	0.01958302	7.66E-03	5.74E-04	2.62E-03	1.50E-03	8.76E-05	7.91E-05	4.00E-04	1.29E-02
3914	485863.09, 3853377.25	1.19E-02	4.80E-04	1.94E-03	1.27E-03	6.44E-05	3.33E-04	1.05E-07	0.01596665	6.32E-03	4.80E-04	1.94E-03	1.27E-03	6.44E-05	5.26E-05	3.33E-04	1.05E-02
3915	486363.09, 3853377.25	1.18E-02	4.59E-04	1.83E-03	1.37E-03	6.91E-05	3.72E-04	1.05E-07	0.01593745	6.28E-03	4.59E-04	1.83E-03	1.37E-03	6.91E-05	5.57E-05	3.72E-04	1.04E-02
3916	486863.09, 3853377.25	1.16E-02	4.35E-04	1.69E-03	1.44E-03	7.38E-05	4.07E-04	1.01E-07	0.01561743	6.13E-03	4.35E-04	1.69E-03	1.44E-03	7.38E-05	5.92E-05	4.07E-04	1.02E-02
3917	487363.09, 3853377.25	1.16E-02	4.24E-04	1.63E-03	1.55E-03	8.31E-05	4.46E-04	1.05E-07	0.01576827	6.14E-03	4.24E-04	1.63E-03	1.55E-03	8.31E-05	7.02E-05	4.46E-04	1.03E-02
3918	487863.09, 3853377.25	1.15E-02	4.11E-04	1.54E-03	1.62E-03	8.99E-05	4.76E-04	1.03E-07	0.01566855	6.07E-03	4.11E-04	1.54E-03	1.62E-03	8.99E-05	8.55E-05	4.76E-04	1.03E-02
3919	488363.09, 3853377.25	1.16E-02	4.03E-04	1.49E-03	1.72E-03	9.82E-05	5.32E-04	1.10E-07	0.01586314	6.11E-03	4.03E-04	1.49E-03	1.72E-03	9.82E-05	1.04E-04	5.32E-04	1.05E-02
3920	488863.09, 3853377.25	1.15E-02	3.87E-04	1.40E-03	1.73E-03	1.01E-04	5.76E-04	1.01E-07	0.01568484	6.03E-03	3.87E-04	1.40E-03	1.73E-03	1.01E-04	1.20E-04	5.76E-04	1.03E-02
3921	489363.09, 3853377.25	1.13E-02	3.74E-04	1.31E-03	1.74E-03	1.02E-04	6.09E-04	9.25E-08	0.01544366	5.92E-03	3.74E-04	1.31E-03	1.74E-03	1.02E-04	1.34E-04	6.09E-04	1.02E-02
3922	489863.09, 3853377.25	1.10E-02	3.58E-04	1.21E-03	1.69E-03	9.92E-05	6.34E-04	8.28E-08	0.01497944	5.75E-03	3.58E-04	1.21E-03	1.69E-03	9.92E-05	1.41E-04	6.34E-04	9.89E-03
3923	490363.09, 3853377.25	1.12E-02	3.57E-04	1.19E-03	1.79E-03	1.06E-04	6.92E-04	8.43E-08	0.01534118	5.86E-03	3.57E-04	1.19E-03	1.79E-03	1.06E-04	1.60E-04	6.92E-04	1.02E-02
3924	490863.09, 3853377.25	1.13E-02	3.53E-04	1.16E-03	1.84E-03	1.09E-04	7.34E-04	8.69E-08	0.0154926	5.90E-03	3.53E-04	1.16E-03	1.84E-03	1.09E-04	1.76E-04	7.34E-04	1.03E-02
3925	491363.09, 3853377.25	1.14E-02	3.48E-04	1.13E-03	1.88E-03	1.12E-04	7.72E-04	8.69E-08	0.0156247	5.93E-03	3.48E-04	1.13E-03	1.88E-03	1.12E-04	1.89E-04	7.72E-04	1.04E-02
3926	491863.09, 3853377.25	1.13E-02	3.41E-04	1.09E-03	1.91E-03	1.14E-04	8.17E-04	8.47E-08	0.01561126	5.90E-03	3.41E-04	1.09E-03	1.91E-03	1.14E-04	2.00E-04	8.17E-04	1.04E-02
3927	492363.09, 3853377.25	1.14E-02	3.40E-04	1.08E-03	1.99E-03	1.18E-04	8.84E-04	8.99E-08	0.01581926	5.94E-03	3.40E-04	1.08E-03	1.99E-03	1.18E-04	2.16E-04	8.84E-04	1.06E-02
3928	492863.09, 3853377.25	1.15E-02	3.39E-04	1.06E-03	2.05E-03	1.21E-04	9.47E-04	1.03E-07	0.01597212	5.96E-03	3.39E-04	1.06E-03	2.05E-03	1.21E-04	2.29E-04	9.47E-04	1.07E-02
3929	493363.09, 3853377.25	1.13E-02	3.32E-04	1.02E-03	2.04E-03	1.20E-04	9.58E-04	1.04E-07	0.01578447	5.89E-03	3.32E-04	1.02E-03	2.04E-03	1.20E-04	2.29E-04	9.58E-04	1.06E-02
3930	493863.09, 3853377.25	1.12E-02	3.25E-04	9.76E-04	2.00E-03	1.17E-04	9.56E-04	1.11E-07	0.01553681	5.80E-03	3.25E-04	9.76E-04	2.00E-03	1.17E-04	2.27E-04	9.56E-04	1.04E-02
3931	494363.09, 3853377.25	1.09E-02	3.13E-04	9.18E-04	1.91E-03	1.11E-04	9.31E-04	1.13E-07	0.01503702	5.64E-03	3.13E-04	9.18E-04	1.91E-03	1.11E-04	2.17E-04	9.31E-04	1.00E-02
3932	494863.09, 3853377.25	1.05E-02	3.00E-04	8.57E-04	1.79E-03	1.03E-04	9.06E-04	1.17E-07	0.01444926	5.45E-03	3.00E-04	8.57E-04	1.79E-03	1.03E-04	2.05E-04	9.06E-04	9.62E-03

3933	495363.09, 3853377.25	1.02E-02	2.92E-04	8.15E-04	1.73E-03	9.88E-05	9.02E-04	1.19E-07	0.01407305	5.32E-03	2.92E-04	8.15E-04	1.73E-03	9.88E-05	1.98E-04	9.02E-04	9.36E-03
3934	495863.09, 3853377.25	9.87E-03	2.82E-04	7.65E-04	1.64E-03	9.28E-05	8.81E-04	1.19E-07	0.01353095	5.13E-03	2.82E-04	7.65E-04	1.64E-03	9.28E-05	1.86E-04	8.81E-04	8.98E-03
3935	496363.09, 3853377.25	9.42E-03	2.68E-04	7.05E-04	1.51E-03	8.49E-05	8.43E-04	1.18E-07	0.01283731	4.90E-03	2.68E-04	7.05E-04	1.51E-03	8.49E-05	1.71E-04	8.43E-04	8.48E-03
3936	496863.09, 3853377.25	8.80E-03	2.51E-04	6.26E-04	1.34E-03	7.42E-05	7.85E-04	1.15E-07	0.01186805	4.57E-03	2.51E-04	6.26E-04	1.34E-03	7.42E-05	1.51E-04	7.85E-04	7.80E-03
3937	497363.09, 3853377.25	7.94E-03	2.29E-04	5.28E-04	1.13E-03	6.17E-05	7.10E-04	1.12E-07	0.01060018	4.13E-03	2.29E-04	5.28E-04	1.13E-03	6.17E-05	1.26E-04	7.10E-04	6.92E-03
3938	497863.09, 3853377.25	6.53E-03	1.93E-04	3.52E-04	8.03E-04	4.17E-05	5.65E-04	9.30E-08	0.00848974	3.41E-03	1.93E-04	3.52E-04	8.03E-04	4.17E-05	8.70E-05	5.65E-04	5.45E-03
3939	498363.09, 3853377.25	5.89E-03	1.75E-04	2.73E-04	6.51E-04	3.31E-05	4.98E-04	8.77E-08	0.00751513	3.07E-03	1.75E-04	2.73E-04	6.51E-04	3.31E-05	6.94E-05	4.98E-04	4.77E-03
3940	471363.09, 3853877.25	2.93E-03	1.25E-04	4.08E-04	3.01E-04	1.61E-05	2.21E-04	6.36E-08	0.00400151	1.58E-03	1.25E-04	4.08E-04	3.01E-04	1.61E-05	3.04E-05	2.21E-04	2.68E-03
3941	471863.09, 3853877.25	3.07E-03	1.32E-04	4.57E-04	3.30E-04	1.77E-05	2.38E-04	6.79E-08	0.00424511	1.65E-03	1.32E-04	4.57E-04	3.30E-04	1.77E-05	3.40E-05	2.38E-04	2.86E-03
3942	472363.09, 3853877.25	3.21E-03	1.36E-04	4.91E-04	3.50E-04	1.88E-05	2.48E-04	7.07E-08	0.00444829	1.73E-03	1.36E-04	4.91E-04	3.50E-04	1.88E-05	3.65E-05	2.48E-04	3.00E-03
3943	472863.09, 3853877.25	3.34E-03	1.41E-04	5.35E-04	3.77E-04	2.03E-05	2.59E-04	7.46E-08	0.00467569	1.80E-03	1.41E-04	5.35E-04	3.77E-04	2.03E-05	3.95E-05	2.59E-04	3.17E-03
3944	473363.09, 3853877.25	3.46E-03	1.44E-04	5.60E-04	3.96E-04	2.14E-05	2.66E-04	7.77E-08	0.00485084	1.86E-03	1.44E-04	5.60E-04	3.96E-04	2.14E-05	4.17E-05	2.66E-04	3.29E-03
3945	473863.09, 3853877.25	3.60E-03	1.48E-04	5.86E-04	4.17E-04	2.27E-05	2.74E-04	8.12E-08	0.00504575	1.93E-03	1.48E-04	5.86E-04	4.17E-04	2.27E-05	4.40E-05	2.74E-04	3.42E-03
3946	474363.09, 3853877.25	3.76E-03	1.53E-04	6.18E-04	4.49E-04	2.44E-05	2.85E-04	8.56E-08	0.0052928	2.02E-03	1.53E-04	6.18E-04	4.49E-04	2.44E-05	4.68E-05	2.85E-04	3.59E-03
3947	474863.09, 3853877.25	3.91E-03	1.57E-04	6.37E-04	4.76E-04	2.59E-05	2.94E-04	8.89E-08	0.00550056	2.09E-03	1.57E-04	6.37E-04	4.76E-04	2.59E-05	4.91E-05	2.94E-04	3.73E-03
3948	475363.09, 3853877.25	4.00E-03	1.56E-04	5.98E-04	4.65E-04	2.58E-05	2.88E-04	8.77E-08	0.0055361	2.14E-03	1.56E-04	5.98E-04	4.65E-04	2.58E-05	4.84E-05	2.88E-04	3.72E-03
3949	475863.09, 3853877.25	4.00E-03	1.50E-04	4.79E-04	4.06E-04	2.28E-05	2.62E-04	7.95E-08	0.00532209	2.13E-03	1.50E-04	4.79E-04	4.06E-04	2.28E-05	4.23E-05	2.62E-04	3.49E-03
3950	476363.09, 3853877.25	3.88E-03	1.46E-04	3.62E-04	3.53E-04	1.94E-05	2.38E-04	6.95E-08	0.00500135	2.07E-03	1.46E-04	3.62E-04	3.53E-04	1.94E-05	3.61E-05	2.38E-04	3.22E-03
3951	476863.09, 3853877.25	3.76E-03	1.39E-04	2.38E-04	2.94E-04	1.53E-05	2.12E-04	5.63E-08	0.00465563	2.00E-03	1.39E-04	2.38E-04	2.94E-04	1.53E-05	2.93E-05	2.12E-04	2.93E-03
3952	477363.09, 3853877.25	4.04E-03	1.48E-04	2.65E-04	3.20E-04	1.70E-05	2.23E-04	5.91E-08	0.00501124	2.15E-03	1.48E-04	2.65E-04	3.20E-04	1.70E-05	3.23E-05	2.23E-04	3.15E-03
3953	477863.09, 3853877.25	4.33E-03	1.58E-04	3.27E-04	3.67E-04	2.00E-05	2.43E-04	6.43E-08	0.00544108	2.30E-03	1.58E-04	3.27E-04	3.67E-04	2.00E-05	3.72E-05	2.43E-04	3.45E-03
3954	478363.09, 3853877.25	4.56E-03	1.63E-04	3.45E-04	3.93E-04	2.14E-05	2.54E-04	6.58E-08	0.00573592	2.42E-03	1.63E-04	3.45E-04	3.93E-04	2.14E-05	3.96E-05	2.54E-04	3.64E-03
3955	478863.09, 3853877.25	4.35E-03	1.51E-04	1.96E-04	3.08E-04	1.51E-05	2.12E-04	4.75E-08	0.00523199	2.30E-03	1.51E-04	1.96E-04	3.08E-04	1.51E-05	2.90E-05	2.12E-04	3.21E-03
3956	479363.09, 3853877.25	4.99E-03	1.71E-04	3.19E-04	4.11E-04	2.13E-05	2.54E-04	6.26E-08	0.00617024	2.64E-03	1.71E-04	3.19E-04	4.11E-04	2.13E-05	3.86E-05	2.54E-04	3.86E-03
3957	479863.09, 3853877.25	6.39E-03	2.23E-04	7.34E-04	7.30E-04	4.30E-05	3.70E-04	1.02E-07	0.00848989	3.38E-03	2.23E-04	7.34E-04	7.30E-04	4.30E-05	6.93E-05	3.70E-04	5.55E-03
3958	480363.09, 3853877.25	7.65E-03	2.77E-04	1.12E-03	1.10E-03	6.56E-05	4.76E-04	1.32E-07	0.01068712	4.06E-03	2.77E-04	1.12E-03	1.10E-03	6.56E-05	9.93E-05	4.76E-04	7.19E-03
3959	480863.09, 3853877.25	9.03E-03	3.75E-04	1.83E-03	2.00E-03	1.02E-04	6.81E-04	1.69E-07	0.01402445	4.85E-03	3.75E-04	1.83E-03	2.00E-03	1.02E-04	1.41E-04	6.81E-04	9.98E-03
3960	481363.09, 3853877.25	1.06E-02	4.82E-04	2.38E-03	2.87E-03	1.34E-04	9.03E-04	1.91E-07	0.01738793	5.76E-03	4.82E-04	2.38E-03	2.87E-03	1.34E-04	1.67E-04	9.03E-04	1.27E-02
3961	481863.09, 3853877.25	1.37E-02	6.91E-04	2.99E-03	4.12E-03	1.69E-04	1.37E-03	2.13E-07	0.02304868	7.54E-03	6.91E-04	2.99E-03	4.12E-03	1.69E-04	1.91E-04	1.37E-03	1.71E-02
3962	482363.09, 3853877.25	2.28E-02	1.17E-03	3.46E-03	6.14E-03	2.57E-04	1.35E-03	2.22E-07	0.03520868	1.27E-02	1.17E-03	3.46E-03	6.14E-03	2.57E-04	2.15E-04	1.35E-03	2.53E-02
3963	482863.09, 3853877.25	1.57E-01	1.43E-02	3.64E-03	2.89E-02	1.24E-03	1.22E-03	2.22E-07	0.20614342	1.04E-01	1.43E-02	3.64E-03	2.89E-02	1.24E-03	2.30E-04	1.22E-03	1.53E-01
3964	483363.09, 3853877.25	7.70E-02	3.12E-03	3.51E-03	1.12E-02	7.38E-04	1.10E-03	2.23E-07	0.09660424	4.04E-02	3.12E-03	3.51E-03	1.12E-02	7.38E-04	3.08E-04	1.10E-03	6.04E-02
3965	483863.09, 3853877.25	4.16E-02	1.75E-03	3.33E-03	7.86E-03	4.86E-04	1.05E-03	2.50E-07	0.05606542	2.20E-02	1.75E-03	3.33E-03	7.86E-03	4.86E-04	3.39E-04	1.05E-03	3.68E-02
3966	484363.09, 3853877.25	3.13E-02	1.16E-03	2.81E-03	5.27E-03	3.28E-04	8.20E-04	2.42E-07	0.04170979	1.64E-02	1.16E-03	2.81E-03	5.27E-03	3.28E-04	2.54E-04	8.20E-04	2.70E-02
3967	484863.09, 3853877.25	2.58E-02	8.29E-04	2.29E-03	3.64E-03	2.07E-04	6.38E-04	1.92E-07	0.03341546	1.34E-02	8.29E-04	2.29E-03	3.64E-03	2.07E-04	1.62E-04	6.38E-04	2.12E-02
3968	485363.09, 3853877.25	1.94E-02	5.96E-04	1.72E-03	2.55E-03	1.25E-04	4.91E-04	1.35E-07	0.02490332	1.01E-02	5.96E-04	1.72E-03	2.55E-03	1.25E-04	8.60E-05	4.91E-04	1.56E-02
3969	485863.09, 3853877.25	1.90E-02	5.56E-04	1.74E-03	2.75E-03	1.44E-04	5.76E-04	1.46E-07	0.02480786	9.83E-03	5.56E-04	1.74E-03	2.75E-03	1.44E-04	9.69E-05	5.76E-04	1.57E-02
3970	486363.09, 3853877.25	1.75E-02	5.12E-04	1.58E-03	2.68E-03	1.47E-04	6.00E-04	1.41E-07	0.023028	9.05E-03	5.12E-04	1.58E-03	2.68E-03	1.47E-04	9.93E-05	6.00E-04	1.47E-02
3971	486863.09, 3853877.25	1.62E-02	4.76E-04	1.44E-03	2.55E-03	1.45E-04	6.40E-04	1.27E-07	0.02150223	8.41E-03	4.76E-04	1.44E-03	2.55E-03	1.45E-04	1.10E-04	6.40E-04	1.38E-02
3972	487363.09, 3853877.25	1.60E-02	4.64E-04	1.42E-03	2.63E-03	1.56E-04	7.15E-04	1.31E-07	0.02133609	8.26E-03	4.64E-04	1.42E-03	2.63E-03	1.56E-04	1.40E-04	7.15E-04	1.38E-02
3973	487863.09, 3853877.25	1.62E-02	4.68E-04	1.46E-03	2.86E-03	1.78E-04	8.17E-04	1.48E-07	0.0219741	8.37E-03	4.68E-04	1.46E-03	2.86E-03	1.78E-04	1.88E-04	8.17E-04	1.43E-02
3974	488363.09, 3853877.25	1.59E-02	4.55E-04	1.42E-03	2.92E-03	1.84E-04	8.96E-04	1.53E-07	0.02175342	8.21E-03	4.55E-04	1.42E-03	2.92E-03	1.84E-04	2.23E-04	8.96E-04	1.43E-02
3975	488863.09, 3853877.25	1.58E-02	4.51E-04	1.41E-03	3.05E-03	1.94E-04	1.00E-03	1.62E-07	0.02190307	8.17E-03	4.51E-04	1.41E-03	3.05E-03	1.94E-04	2.65E-04	1.00E-03	1.45E-02
3976	489363.09, 3853877.25	1.51E-02	4.22E-04	1.30E-03	2.86E-03	1.80E-04	1.01E-03	1.47E-07	0.02091133	7.83E-03	4.22E-04	1.30E-03	2.86E-03	1.80E-04	2.67E-04	1.01E-03	1.39E-02
3977	489863.09, 3853877.25	1.49E-02	4.12E-04	1.25E-03	2.86E-03	1.80E-04	1.07E-03	1.38E-07	0.02072107	7.72E-03	4.12E-04	1.25E-03	2.86E-03	1.80E-04	2.87E-04	1.07E-03	1.38E-02
3978	490363.09, 3853877.25	1.45E-02	3.95E-04	1.19E-03	2.78E-03	1.73E-04	1.09E-03	1.28E-07	0.02015705	7.51E-03	3.95E-04	1.19E-03	2.78E-03	1.73E-04	2.93E-04	1.09E-03	1.34E-02
3979	490863.09, 3853877.25	1.43E-02	3.84E-04	1.14E-03	2.75E-03	1.70E-04	1.10E-03	1.26E-07	0.01986637	7.39E-03	3.84E-04	1.14E-03	2.75E-03	1.70E-04	3.02E-04	1.10E-03	1.32E-02
3980	491363.09, 3853877.25	1.41E-02	3.76E-04	1.10E-03	2.74E-03	1.68E-04	1.14E-03	1.27E-07	0.01962012	7.28E-03	3.76E-04	1.10E-03	2.74E-03	1.68E-04	3.12E-04	1.14E-03	1.31E-02
3981	491863.09, 3853877.25	1.38E-02	3.69E-04	1.07E-03	2.72E-03	1.66E-04	1.19E-03	1.25E-07	0.01930713	7.13E-03	3.69E-04	1.07E-03	2.72E-03	1.66E-04	3.17E-04	1.19E-03	1.30E-02
3982	492363.09, 3853877.25	1.37E-02	3.67E-04	1.05E-03	2.78E-03	1.67E-04	1.26E-03	1.33E-07	0.0192871	7.06E-03	3.67E-04	1.05E-03	2.78E-03	1.67E-04	3.29E-04	1.26E-03	1.30E-02
3983	492863.09, 3853877.25	1.34E-02	3.61E-04	1.03E-03	2.78E-03	1.65E-04	1.29E-03	1.48E-07	0.0190614	6.95E-03	3.61E-04	1.03E-03	2.78E-03	1.65E-04	3.31E-04	1.29E-03	1.29E-02
3984	493363.09, 3853877.25	1.31E-02	3.50E-04	9.85E-04	2.68E-03	1.58E-04	1.26E-03	1.54E-07	0.01856083	6.79E-03	3.50E-04	9.85E-04	2.68E-03	1.58E-04	3.20E-04	1.26E-03	1.25E-02
3985	493863.09, 3853877.25	1.28E-02	3.38E-04	9.37E-04	2.54E-03	1.49E-04	1.23E-03	1.48E-07	0.01796516	6.60E-03	3.38E-04	9.37E-04	2.54E-03	1.49E-04	3.04E-04	1.23E-03	1.21E-02
3986	494363.09, 3853877.25	1.24E-02	3.28E-04	8.97E-04	2.44E-03	1.41E-04	1.22E-03	1.66E-07	0.01746987	6.43E-03	3.28E-04	8.97E-04	2.44E-03	1.41E-04	2.90E-04	1.22E-03	1.17E-02

3987	494863.09, 3853877.25	1.20E-02	3.15E-04	8.47E-04	2.28E-03	1.31E-04	1.18E-03	1.66E-07	0.01678434	6.22E-03	3.15E-04	8.47E-04	2.28E-03	1.31E-04	2.70E-04	1.18E-03	1.12E-02
3988	495363.09, 3853877.25	1.12E-02	2.93E-04	7.59E-04	1.98E-03	1.13E-04	1.06E-03	1.45E-07	0.01542106	5.80E-03	2.93E-04	7.59E-04	1.98E-03	1.13E-04	2.32E-04	1.06E-03	1.02E-02
3989	495863.09, 3853877.25	1.04E-02	2.75E-04	6.85E-04	1.75E-03	9.92E-05	9.82E-04	1.38E-07	0.01420068	5.39E-03	2.75E-04	6.85E-04	1.75E-03	9.92E-05	2.03E-04	9.82E-04	9.38E-03
3990	496363.09, 3853877.25	9.89E-03	2.63E-04	6.34E-04	1.61E-03	9.00E-05	9.40E-04	1.46E-07	0.01341995	5.12E-03	2.63E-04	6.34E-04	1.61E-03	9.00E-05	1.84E-04	9.40E-04	8.84E-03
3991	496863.09, 3853877.25	8.98E-03	2.42E-04	5.48E-04	1.37E-03	7.56E-05	8.55E-04	1.47E-07	0.01206921	4.65E-03	2.42E-04	5.48E-04	1.37E-03	7.56E-05	1.56E-04	8.55E-04	7.90E-03
3992	497363.09, 3853877.25	8.23E-03	2.25E-04	4.73E-04	1.19E-03	6.43E-05	7.87E-04	1.46E-07	0.01097572	4.27E-03	2.25E-04	4.73E-04	1.19E-03	6.43E-05	1.33E-04	7.87E-04	7.15E-03
3993	497863.09, 3853877.25	7.28E-03	2.03E-04	3.74E-04	9.63E-04	5.06E-05	6.91E-04	1.35E-07	0.00955928	3.78E-03	2.03E-04	3.74E-04	9.63E-04	5.06E-05	1.06E-04	6.91E-04	6.17E-03
3994	498363.09, 3853877.25	6.75E-03	1.90E-04	3.19E-04	8.31E-04	4.30E-05	6.33E-04	1.31E-07	0.00876201	3.51E-03	1.90E-04	3.19E-04	8.31E-04	4.30E-05	9.01E-05	6.33E-04	5.61E-03
3995	471363.09, 3854377.25	2.84E-03	1.21E-04	3.95E-04	3.12E-04	1.65E-05	2.25E-04	6.83E-08	0.00390576	1.53E-03	1.21E-04	3.95E-04	3.12E-04	1.65E-05	2.97E-05	2.25E-04	2.63E-03
3996	471863.09, 3854377.25	2.97E-03	1.27E-04	4.37E-04	3.44E-04	1.81E-05	2.44E-04	7.26E-08	0.00414383	1.60E-03	1.27E-04	4.37E-04	3.44E-04	1.81E-05	3.25E-05	2.44E-04	2.80E-03
3997	472363.09, 3854377.25	3.11E-03	1.31E-04	4.71E-04	3.67E-04	1.94E-05	2.58E-04	7.53E-08	0.00435479	1.67E-03	1.31E-04	4.71E-04	3.67E-04	1.94E-05	3.49E-05	2.58E-04	2.95E-03
3998	472863.09, 3854377.25	3.24E-03	1.34E-04	4.95E-04	3.84E-04	2.05E-05	2.68E-04	7.73E-08	0.00454114	1.74E-03	1.34E-04	4.95E-04	3.84E-04	2.05E-05	3.71E-05	2.68E-04	3.08E-03
3999	473363.09, 3854377.25	3.40E-03	1.39E-04	5.27E-04	4.09E-04	2.19E-05	2.81E-04	8.03E-08	0.00478263	1.83E-03	1.39E-04	5.27E-04	4.09E-04	2.19E-05	4.01E-05	2.81E-04	3.24E-03
4000	473863.09, 3854377.25	3.58E-03	1.44E-04	5.66E-04	4.41E-04	2.38E-05	2.97E-04	8.42E-08	0.00505606	1.92E-03	1.44E-04	5.66E-04	4.41E-04	2.38E-05	4.38E-05	2.97E-04	3.44E-03
4001	474363.09, 3854377.25	3.76E-03	1.48E-04	5.99E-04	4.76E-04	2.56E-05	3.11E-04	8.81E-08	0.00532056	2.01E-03	1.48E-04	5.99E-04	4.76E-04	2.56E-05	4.77E-05	3.11E-04	3.62E-03
4002	474863.09, 3854377.25	3.88E-03	1.46E-04	5.63E-04	4.58E-04	2.55E-05	3.01E-04	8.71E-08	0.00537342	2.07E-03	1.46E-04	5.63E-04	4.58E-04	2.55E-05	4.77E-05	3.01E-04	3.61E-03
4003	475363.09, 3854377.25	3.92E-03	1.39E-04	4.62E-04	4.00E-04	2.29E-05	2.75E-04	8.07E-08	0.0052209	2.08E-03	1.39E-04	4.62E-04	4.00E-04	2.29E-05	4.31E-05	2.75E-04	3.42E-03
4004	475863.09, 3854377.25	3.60E-03	1.25E-04	2.71E-04	2.97E-04	1.60E-05	2.24E-04	6.22E-08	0.00453375	1.91E-03	1.25E-04	2.71E-04	2.97E-04	1.60E-05	3.07E-05	2.24E-04	2.87E-03
4005	476363.09, 3854377.25	3.58E-03	1.25E-04	2.20E-04	2.79E-04	1.44E-05	2.16E-04	5.67E-08	0.00443258	1.89E-03	1.25E-04	2.20E-04	2.79E-04	1.44E-05	2.80E-05	2.16E-04	2.78E-03
4006	476863.09, 3854377.25	3.68E-03	1.28E-04	1.96E-04	2.79E-04	1.40E-05	2.17E-04	5.45E-08	0.00451521	1.95E-03	1.28E-04	1.96E-04	2.79E-04	1.40E-05	2.73E-05	2.17E-04	2.81E-03
4007	477363.09, 3854377.25	3.80E-03	1.32E-04	1.82E-04	2.85E-04	1.41E-05	2.19E-04	5.32E-08	0.0046348	2.01E-03	1.32E-04	1.82E-04	2.85E-04	1.41E-05	2.74E-05	2.19E-04	2.87E-03
4008	477863.09, 3854377.25	4.01E-03	1.38E-04	1.78E-04	2.97E-04	1.45E-05	2.24E-04	5.28E-08	0.00485972	2.12E-03	1.38E-04	1.78E-04	2.97E-04	1.45E-05	2.83E-05	2.24E-04	3.00E-03
4009	478363.09, 3854377.25	4.40E-03	1.48E-04	2.21E-04	3.47E-04	1.74E-05	2.46E-04	5.93E-08	0.00538357	2.33E-03	1.48E-04	2.21E-04	3.47E-04	1.74E-05	3.35E-05	2.46E-04	3.34E-03
4010	478863.09, 3854377.25	4.75E-03	1.55E-04	2.42E-04	3.82E-04	1.94E-05	2.63E-04	6.18E-08	0.00581314	2.51E-03	1.55E-04	2.42E-04	3.82E-04	1.94E-05	3.70E-05	2.63E-04	3.60E-03
4011	479363.09, 3854377.25	5.72E-03	1.80E-04	4.48E-04	5.67E-04	3.15E-05	3.45E-04	8.72E-08	0.00728804	3.00E-03	1.80E-04	4.48E-04	5.67E-04	3.15E-05	5.76E-05	3.45E-04	4.63E-03
4012	479863.09, 3854377.25	6.71E-03	2.01E-04	5.96E-04	7.41E-04	4.30E-05	4.14E-04	1.04E-07	0.00870692	3.51E-03	2.01E-04	5.96E-04	7.41E-04	4.30E-05	7.64E-05	4.14E-04	5.58E-03
4013	480363.09, 3854377.25	8.15E-03	2.40E-04	8.30E-04	1.07E-03	6.41E-05	5.24E-04	1.28E-07	0.01087702	4.26E-03	2.40E-04	8.30E-04	1.07E-03	6.41E-05	1.07E-04	5.24E-04	7.09E-03
4014	480863.09, 3854377.25	1.02E-02	3.09E-04	1.23E-03	1.82E-03	1.03E-04	7.14E-04	1.64E-07	0.01434806	5.33E-03	3.09E-04	1.23E-03	1.82E-03	1.03E-04	1.57E-04	7.14E-04	9.66E-03
4015	481363.09, 3854377.25	1.23E-02	4.06E-04	1.63E-03	3.08E-03	1.48E-04	9.48E-04	1.99E-07	0.01852092	6.50E-03	4.06E-04	1.63E-03	3.08E-03	1.48E-04	2.00E-04	9.48E-04	1.29E-02
4016	481863.09, 3854377.25	1.59E-02	5.91E-04	2.03E-03	5.52E-03	1.98E-04	1.75E-03	2.33E-07	0.0260096	8.54E-03	5.91E-04	2.03E-03	5.52E-03	1.98E-04	2.28E-04	1.75E-03	1.89E-02
4017	482363.09, 3854377.25	2.64E-02	9.07E-04	2.09E-03	8.80E-03	2.80E-04	2.01E-03	2.46E-07	0.04049729	1.42E-02	9.07E-04	2.09E-03	8.80E-03	2.80E-04	2.64E-04	2.01E-03	2.85E-02
4018	482863.09, 3854377.25	1.52E-01	9.07E-03	2.09E-03	3.50E-02	5.85E-04	1.77E-03	2.53E-07	0.20031485	9.45E-02	9.07E-03	2.09E-03	3.50E-02	5.85E-04	3.29E-04	1.77E-03	1.43E-01
4019	483363.09, 3854377.25	1.57E-01	3.81E-03	2.04E-03	3.78E-02	1.70E-03	1.54E-03	2.54E-07	0.20348351	7.98E-02	3.81E-03	2.04E-03	3.78E-02	1.70E-03	3.99E-04	1.54E-03	1.27E-01
4020	483863.09, 3854377.25	9.68E-02	4.49E-03	1.85E-03	1.57E-02	8.62E-04	1.40E-03	2.39E-07	0.12102072	4.88E-02	4.49E-03	1.85E-03	1.57E-02	8.62E-04	4.80E-04	1.40E-03	7.35E-02
4021	484363.09, 3854377.25	5.80E-02	1.74E-03	1.57E-03	9.05E-03	5.14E-04	1.14E-03	2.23E-07	0.07202934	2.93E-02	1.74E-03	1.57E-03	9.05E-03	5.14E-04	3.40E-04	1.14E-03	4.37E-02
4022	484863.09, 3854377.25	3.87E-02	1.05E-03	1.30E-03	6.16E-03	3.23E-04	8.99E-04	1.83E-07	0.04846574	1.97E-02	1.05E-03	1.30E-03	6.16E-03	3.23E-04	1.80E-04	8.99E-04	2.96E-02
4023	485363.09, 3854377.25	3.54E-02	9.41E-04	1.49E-03	6.58E-03	4.27E-04	1.07E-03	2.04E-07	0.04588803	1.80E-02	9.41E-04	1.49E-03	6.58E-03	4.27E-04	2.14E-04	1.07E-03	2.87E-02
4024	485863.09, 3854377.25	2.88E-02	7.19E-04	1.33E-03	5.14E-03	3.42E-04	1.00E-03	1.70E-07	0.03729532	1.46E-02	7.19E-04	1.33E-03	5.14E-03	3.42E-04	1.88E-04	1.00E-03	2.33E-02
4025	486363.09, 3854377.25	2.67E-02	6.46E-04	1.39E-03	5.11E-03	3.58E-04	1.14E-03	1.82E-07	0.03537563	1.36E-02	6.46E-04	1.39E-03	5.11E-03	3.58E-04	2.59E-04	1.14E-03	2.25E-02
4026	486863.09, 3854377.25	2.40E-02	5.63E-04	1.30E-03	4.63E-03	3.22E-04	1.20E-03	1.74E-07	0.03204812	1.22E-02	5.63E-04	1.30E-03	4.63E-03	3.22E-04	2.97E-04	1.20E-03	2.05E-02
4027	487363.09, 3854377.25	2.29E-02	5.36E-04	1.29E-03	4.60E-03	3.22E-04	1.34E-03	1.85E-07	0.03099076	1.17E-02	5.36E-04	1.29E-03	4.60E-03	3.22E-04	3.62E-04	1.34E-03	2.01E-02
4028	487863.09, 3854377.25	2.21E-02	5.31E-04	1.31E-03	4.75E-03	3.31E-04	1.47E-03	2.09E-07	0.03052817	1.13E-02	5.31E-04	1.31E-03	4.75E-03	3.31E-04	4.39E-04	1.47E-03	2.01E-02
4029	488363.09, 3854377.25	2.12E-02	5.16E-04	1.31E-03	4.73E-03	3.25E-04	1.57E-03	2.20E-07	0.02962673	1.08E-02	5.16E-04	1.31E-03	4.73E-03	3.25E-04	4.88E-04	1.57E-03	1.98E-02
4030	488863.09, 3854377.25	2.03E-02	4.98E-04	1.28E-03	4.68E-03	3.15E-04	1.65E-03	2.21E-07	0.02875607	1.04E-02	4.98E-04	1.28E-03	4.68E-03	3.15E-04	5.21E-04	1.65E-03	1.94E-02
4031	489363.09, 3854377.25	1.95E-02	4.78E-04	1.25E-03	4.55E-03	3.00E-04	1.70E-03	2.33E-07	0.02780624	1.00E-02	4.78E-04	1.25E-03	4.55E-03	3.00E-04	5.33E-04	1.70E-03	1.88E-02
4032	489863.09, 3854377.25	1.88E-02	4.57E-04	1.20E-03	4.37E-03	2.83E-04	1.73E-03	2.20E-07	0.02678441	9.62E-03	4.57E-04	1.20E-03	4.37E-03	2.83E-04	5.28E-04	1.73E-03	1.82E-02
4033	490363.09, 3854377.25	1.80E-02	4.36E-04	1.14E-03	4.13E-03	2.65E-04	1.68E-03	2.03E-07	0.02569552	9.25E-03	4.36E-04	1.14E-03	4.13E-03	2.65E-04	5.13E-04	1.68E-03	1.74E-02
4034	490863.09, 3854377.25	1.66E-02	3.89E-04	1.00E-03	3.39E-03	2.17E-04	1.44E-03	1.46E-07	0.0230565	8.51E-03	3.89E-04	1.00E-03	3.39E-03	2.17E-04	4.26E-04	1.44E-03	1.54E-02
4035	491363.09, 3854377.25	1.65E-02	3.95E-04	1.03E-03	3.63E-03	2.27E-04	1.60E-03	1.73E-07	0.023419	8.49E-03	3.95E-04	1.03E-03	3.63E-03	2.27E-04	4.62E-04	1.60E-03	1.58E-02
4036	491863.09, 3854377.25	1.63E-02	3.97E-04	1.03E-03	3.76E-03	2.30E-04	1.71E-03	1.90E-07	0.02338326	8.36E-03	3.97E-04	1.03E-03	3.76E-03	2.30E-04	4.79E-04	1.71E-03	1.60E-02
4037	492363.09, 3854377.25	1.58E-02	3.90E-04	1.01E-03	3.73E-03	2.24E-04	1.73E-03	2.06E-07	0.02293241	8.15E-03	3.90E-04	1.01E-03	3.73E-03	2.24E-04	4.72E-04	1.73E-03	1.57E-02
4038	492863.09, 3854377.25	1.54E-02	3.79E-04	9.72E-04	3.58E-03	2.12E-04	1.69E-03	2.11E-07	0.02221701	7.92E-03	3.79E-04	9.72E-04	3.58E-03	2.12E-04	4.49E-04	1.69E-03	1.52E-02
4039	493363.09, 3854377.25	1.49E-02	3.65E-04	9.29E-04	3.36E-03	1.97E-04	1.63E-03	2.03E-07	0.02137947	7.66E-03	3.65E-04	9.29E-04	3.36E-03	1.97E-04	4.19E-04	1.63E-03	1.46E-02
4040	493863.09, 3854377.25	1.44E-02	3.51E-04	8.85E-04	3.13E-03	1.83E-04	1.59E-03	2.24E-07	0.02054052	7.41E-03	3.51E-04	8.85E-04	3.13E-03	1.83E-04	3.88E-04	1.59E-03	1.39E-02

4041	494363.09, 3854377.25	1.39E-02	3.39E-04	8.44E-04	2.93E-03	1.70E-04	1.53E-03	2.32E-07	0.01972206	7.16E-03	3.39E-04	8.44E-04	2.93E-03	1.70E-04	3.59E-04	1.53E-03	1.33E-02
4042	494863.09, 3854377.25	1.27E-02	3.07E-04	7.37E-04	2.40E-03	1.39E-04	1.31E-03	1.83E-07	0.0176098	6.55E-03	3.07E-04	7.37E-04	2.40E-03	1.39E-04	2.91E-04	1.31E-03	1.17E-02
4043	495363.09, 3854377.25	1.11E-02	2.74E-04	6.18E-04	1.93E-03	1.10E-04	1.11E-03	1.60E-07	0.01516722	5.73E-03	2.74E-04	6.18E-04	1.93E-03	1.10E-04	2.28E-04	1.11E-03	1.00E-02
4044	495863.09, 3854377.25	1.00E-02	2.52E-04	5.34E-04	1.63E-03	9.12E-05	1.00E-03	1.61E-07	0.01352075	5.17E-03	2.52E-04	5.34E-04	1.63E-03	9.12E-05	1.90E-04	1.00E-03	8.87E-03
4045	496363.09, 3854377.25	9.47E-03	2.40E-04	4.95E-04	1.49E-03	8.21E-05	9.57E-04	1.77E-07	0.01273737	4.89E-03	2.40E-04	4.95E-04	1.49E-03	8.21E-05	1.71E-04	9.57E-04	8.33E-03
4046	496863.09, 3854377.25	8.75E-03	2.27E-04	4.41E-04	1.32E-03	7.12E-05	8.89E-04	1.81E-07	0.01169667	4.53E-03	2.27E-04	4.41E-04	1.32E-03	7.12E-05	1.49E-04	8.89E-04	7.62E-03
4047	497363.09, 3854377.25	7.74E-03	2.05E-04	3.53E-04	1.06E-03	5.60E-05	7.79E-04	1.68E-07	0.01019793	4.01E-03	2.05E-04	3.53E-04	1.06E-03	5.60E-05	1.17E-04	7.79E-04	6.59E-03
4048	497863.09, 3854377.25	7.80E-03	2.07E-04	3.69E-04	1.08E-03	5.69E-05	7.99E-04	1.87E-07	0.01030964	4.04E-03	2.07E-04	3.69E-04	1.08E-03	5.69E-05	1.19E-04	7.99E-04	6.67E-03
4049	498363.09, 3854377.25	7.23E-03	1.95E-04	3.23E-04	9.41E-04	4.88E-05	7.35E-04	1.81E-07	0.00947666	3.75E-03	1.95E-04	3.23E-04	9.41E-04	4.88E-05	1.02E-04	7.35E-04	6.10E-03
4050	471363.09, 3854877.25	2.79E-03	1.19E-04	3.89E-04	3.18E-04	1.69E-05	2.29E-04	7.07E-08	0.00386422	1.50E-03	1.19E-04	3.89E-04	3.18E-04	1.69E-05	3.12E-05	2.29E-04	2.61E-03
4051	471863.09, 3854877.25	2.91E-03	1.24E-04	4.18E-04	3.44E-04	1.82E-05	2.45E-04	7.51E-08	0.0040606	1.57E-03	1.24E-04	4.18E-04	3.44E-04	1.82E-05	3.35E-05	2.45E-04	2.75E-03
4052	472363.09, 3854877.25	3.03E-03	1.27E-04	4.45E-04	3.67E-04	1.94E-05	2.58E-04	7.87E-08	0.00424736	1.63E-03	1.27E-04	4.45E-04	3.67E-04	1.94E-05	3.56E-05	2.58E-04	2.88E-03
4053	472863.09, 3854877.25	3.14E-03	1.28E-04	4.54E-04	3.78E-04	2.02E-05	2.65E-04	8.02E-08	0.00438763	1.69E-03	1.28E-04	4.54E-04	3.78E-04	2.02E-05	3.68E-05	2.65E-04	2.97E-03
4054	473363.09, 3854877.25	3.31E-03	1.33E-04	4.92E-04	4.15E-04	2.20E-05	2.87E-04	8.52E-08	0.00465479	1.77E-03	1.33E-04	4.92E-04	4.15E-04	2.20E-05	4.00E-05	2.87E-04	3.16E-03
4055	473863.09, 3854877.25	3.47E-03	1.38E-04	5.27E-04	4.52E-04	2.39E-05	3.07E-04	8.95E-08	0.00491809	1.86E-03	1.38E-04	5.27E-04	4.52E-04	2.39E-05	4.33E-05	3.07E-04	3.35E-03
4056	474363.09, 3854877.25	3.68E-03	1.44E-04	5.71E-04	5.01E-04	2.64E-05	3.34E-04	9.51E-08	0.00525648	1.97E-03	1.44E-04	5.71E-04	5.01E-04	2.64E-05	4.76E-05	3.34E-04	3.59E-03
4057	474863.09, 3854877.25	3.72E-03	1.34E-04	4.70E-04	4.20E-04	2.36E-05	2.95E-04	8.50E-08	0.0050681	1.98E-03	1.34E-04	4.70E-04	4.20E-04	2.36E-05	4.30E-05	2.95E-04	3.36E-03
4058	475363.09, 3854877.25	3.59E-03	1.24E-04	3.38E-04	3.37E-04	1.90E-05	2.54E-04	7.20E-08	0.00466349	1.90E-03	1.24E-04	3.38E-04	3.37E-04	1.90E-05	3.51E-05	2.54E-04	3.01E-03
4059	475863.09, 3854877.25	3.44E-03	1.16E-04	2.19E-04	2.70E-04	1.43E-05	2.20E-04	5.79E-08	0.00427748	1.82E-03	1.16E-04	2.19E-04	2.70E-04	1.43E-05	2.72E-05	2.20E-04	2.68E-03
4060	476363.09, 3854877.25	3.16E-03	1.06E-04	1.02E-04	1.95E-04	9.16E-06	1.82E-04	3.90E-08	0.00375106	1.67E-03	1.06E-04	1.02E-04	1.95E-04	9.16E-06	1.85E-05	1.82E-04	2.28E-03
4061	476863.09, 3854877.25	3.29E-03	1.08E-04	9.28E-05	1.97E-04	9.16E-06	1.85E-04	3.83E-08	0.00388041	1.73E-03	1.08E-04	9.28E-05	1.97E-04	9.16E-06	1.87E-05	1.85E-04	2.34E-03
4062	477363.09, 3854877.25	3.62E-03	1.17E-04	1.22E-04	2.38E-04	1.13E-05	2.08E-04	4.52E-08	0.00431344	1.91E-03	1.17E-04	1.22E-04	2.38E-04	1.13E-05	2.27E-05	2.08E-04	2.63E-03
4063	477863.09, 3854877.25	3.90E-03	1.27E-04	1.50E-04	2.78E-04	1.35E-05	2.31E-04	5.14E-08	0.004704	2.06E-03	1.27E-04	1.50E-04	2.78E-04	1.35E-05	2.66E-05	2.31E-04	2.88E-03
4064	478363.09, 3854877.25	4.52E-03	1.44E-04	2.29E-04	3.69E-04	1.88E-05	2.76E-04	6.65E-08	0.00555854	2.38E-03	1.44E-04	2.29E-04	3.69E-04	1.88E-05	3.58E-05	2.76E-04	3.45E-03
4065	478863.09, 3854877.25	5.32E-03	1.66E-04	3.62E-04	5.16E-04	2.80E-05	3.42E-04	8.73E-08	0.0067315	2.79E-03	1.66E-04	3.62E-04	5.16E-04	2.80E-05	5.06E-05	3.42E-04	4.26E-03
4066	479363.09, 3854877.25	6.51E-03	1.89E-04	5.31E-04	7.29E-04	4.22E-05	4.35E-04	1.12E-07	0.00843786	3.40E-03	1.89E-04	5.31E-04	7.29E-04	4.22E-05	7.46E-05	4.35E-04	5.40E-03
4067	479863.09, 3854877.25	7.80E-03	2.16E-04	7.22E-04	1.03E-03	6.19E-05	5.59E-04	1.37E-07	0.0103806	4.06E-03	2.16E-04	7.22E-04	1.03E-03	6.19E-05	1.08E-04	5.59E-04	6.75E-03
4068	480363.09, 3854877.25	9.14E-03	2.43E-04	8.70E-04	1.39E-03	8.29E-05	6.97E-04	1.55E-07	0.01242457	4.74E-03	2.43E-04	8.70E-04	1.39E-03	8.29E-05	1.44E-04	6.97E-04	8.17E-03
4069	480863.09, 3854877.25	1.10E-02	2.98E-04	1.13E-03	2.25E-03	1.19E-04	9.50E-04	1.85E-07	0.01577217	5.72E-03	2.98E-04	1.13E-03	2.25E-03	1.19E-04	1.99E-04	9.50E-04	1.07E-02
4070	481363.09, 3854877.25	1.35E-02	3.60E-04	1.28E-03	3.20E-03	1.55E-04	1.18E-03	2.04E-07	0.01965813	7.00E-03	3.60E-04	1.28E-03	3.20E-03	1.55E-04	2.42E-04	1.18E-03	1.34E-02
4071	481863.09, 3854877.25	1.83E-02	4.05E-04	1.22E-03	3.57E-03	1.83E-04	1.27E-03	2.12E-07	0.02492967	9.41E-03	4.05E-04	1.22E-03	3.57E-03	1.83E-04	2.68E-04	1.27E-03	1.63E-02
4072	482363.09, 3854877.25	2.79E-02	6.71E-04	1.52E-03	9.18E-03	2.68E-04	3.40E-03	2.71E-07	0.04289439	1.46E-02	6.71E-04	1.52E-03	9.18E-03	2.68E-04	3.40E-04	3.40E-03	3.00E-02
4073	482863.09, 3854877.25	1.19E-01	1.33E-03	1.51E-03	1.89E-02	4.02E-04	4.68E-03	2.86E-07	0.14546306	6.02E-02	1.33E-03	1.51E-03	1.89E-02	4.02E-04	4.38E-04	4.68E-03	8.74E-02
4074	483363.09, 3854877.25	1.80E-01	5.29E-03	1.51E-03	1.07E-01	6.87E-04	4.81E-03	3.00E-07	0.29958261	9.96E-02	5.29E-03	1.51E-03	1.07E-01	6.87E-04	5.96E-04	4.81E-03	2.19E-01
4075	483863.09, 3854877.25	1.82E-01	2.06E-03	1.48E-03	9.50E-02	2.28E-03	4.13E-03	2.97E-07	0.28687085	9.14E-02	2.06E-03	1.48E-03	9.50E-02	2.28E-03	8.79E-04	4.13E-03	1.97E-01
4076	484363.09, 3854877.25	1.89E-01	5.97E-03	1.36E-03	3.11E-02	8.88E-03	3.43E-03	2.75E-07	0.23959215	9.35E-02	5.97E-03	1.36E-03	3.11E-02	8.88E-03	1.06E-03	3.43E-03	1.45E-01
4077	484863.09, 3854877.25	1.01E-01	3.89E-03	1.32E-03	1.96E-02	3.63E-03	2.92E-03	2.87E-07	0.13225071	5.03E-02	3.89E-03	1.32E-03	1.96E-02	3.63E-03	8.86E-04	2.92E-03	8.25E-02
4078	485363.09, 3854877.25	6.49E-02	1.69E-03	1.25E-03	1.46E-02	1.77E-03	2.94E-03	2.95E-07	0.08716076	3.25E-02	1.69E-03	1.25E-03	1.46E-02	1.77E-03	1.05E-03	2.94E-03	5.59E-02
4079	485863.09, 3854877.25	4.99E-02	1.13E-03	1.22E-03	1.13E-02	1.13E-03	2.82E-03	2.64E-07	0.06758926	2.51E-02	1.13E-03	1.22E-03	1.13E-02	1.13E-03	1.08E-03	2.82E-03	4.38E-02
4080	486363.09, 3854877.25	4.09E-02	8.68E-04	1.18E-03	9.26E-03	8.21E-04	2.66E-03	2.49E-07	0.05570264	2.06E-02	8.68E-04	1.18E-03	9.26E-03	8.21E-04	1.00E-03	2.66E-03	3.64E-02
4081	486863.09, 3854877.25	3.53E-02	7.24E-04	1.18E-03	8.00E-03	6.56E-04	2.52E-03	2.45E-07	0.0483429	1.78E-02	7.24E-04	1.18E-03	8.00E-03	6.56E-04	9.40E-04	2.52E-03	3.18E-02
4082	487363.09, 3854877.25	3.19E-02	6.52E-04	1.22E-03	7.68E-03	5.98E-04	2.65E-03	2.61E-07	0.04470525	1.61E-02	6.52E-04	1.22E-03	7.68E-03	5.98E-04	9.78E-04	2.65E-03	2.99E-02
4083	487863.09, 3854877.25	2.91E-02	6.02E-04	1.21E-03	7.40E-03	5.49E-04	2.66E-03	2.87E-07	0.0415332	1.47E-02	6.02E-04	1.21E-03	7.40E-03	5.49E-04	9.94E-04	2.66E-03	2.82E-02
4084	488363.09, 3854877.25	2.69E-02	5.73E-04	1.19E-03	7.17E-03	5.10E-04	2.70E-03	3.11E-07	0.0390802	1.37E-02	5.73E-04	1.19E-03	7.17E-03	5.10E-04	9.96E-04	2.70E-03	2.68E-02
4085	488863.09, 3854877.25	2.54E-02	5.55E-04	1.17E-03	7.02E-03	4.78E-04	2.74E-03	3.31E-07	0.03733396	1.29E-02	5.55E-04	1.17E-03	7.02E-03	4.78E-04	9.89E-04	2.74E-03	2.59E-02
4086	489363.09, 3854877.25	2.39E-02	5.31E-04	1.15E-03	6.65E-03	4.39E-04	2.71E-03	3.44E-07	0.03536058	1.22E-02	5.31E-04	1.15E-03	6.65E-03	4.39E-04	9.40E-04	2.71E-03	2.46E-02
4087	489863.09, 3854877.25	2.24E-02	4.96E-04	1.09E-03	6.00E-03	3.92E-04	2.54E-03	3.19E-07	0.03296845	1.15E-02	4.96E-04	1.09E-03	6.00E-03	3.92E-04	8.53E-04	2.54E-03	2.28E-02
4088	490363.09, 3854877.25	2.03E-02	4.23E-04	9.23E-04	4.53E-03	2.98E-04	1.98E-03	2.06E-07	0.02842388	1.03E-02	4.23E-04	9.23E-04	4.53E-03	2.98E-04	6.40E-04	1.98E-03	1.91E-02
4089	490863.09, 3854877.25	1.65E-02	3.52E-04	7.24E-04	3.31E-03	2.09E-04	1.54E-03	1.22E-07	0.02268316	8.44E-03	3.52E-04	7.24E-04	3.31E-03	2.09E-04	4.49E-04	1.54E-03	1.50E-02
4090	491363.09, 3854877.25	1.70E-02	3.60E-04	7.71E-04	3.48E-03	2.20E-04	1.66E-03	1.38E-07	0.02345942	8.66E-03	3.60E-04	7.71E-04	3.48E-03	2.20E-04	4.76E-04	1.66E-03	1.56E-02
4091	491863.09, 3854877.25	1.86E-02	4.21E-04	9.59E-04	4.83E-03	2.92E-04	2.27E-03	2.87E-07	0.02737857	9.53E-03	4.21E-04	9.59E-04	4.83E-03	2.92E-04	6.54E-04	2.27E-03	1.89E-02
4092	492363.09, 3854877.25	1.80E-02	4.14E-04	9.46E-04	4.72E-03	2.78E-04	2.26E-03	3.16E-07	0.02662463	9.23E-03	4.14E-04	9.46E-04	4.72E-03	2.78E-04	6.23E-04	2.26E-03	1.85E-02
4093	492863.09, 3854877.25	1.73E-02	3.98E-04	9.12E-04	4.41E-03	2.57E-04	2.19E-03	3.18E-07	0.02549158	8.88E-03	3.98E-04	9.12E-04	4.41E-03	2.57E-04	5.73E-04	2.19E-03	1.76E-02
4094	493363.09, 3854877.25	1.66E-02	3.79E-04	8.68E-04	4.03E-03	2.34E-04	2.08E-03	3.19E-07	0.02421006	8.52E-03	3.79E-04	8.68E-04	4.03E-03	2.34E-04	5.18E-04	2.08E-03	1.66E-02

4095	493863.09, 3854877.25	1.60E-02	3.64E-04	8.31E-04	3.72E-03	2.15E-04	1.98E-03	3.35E-07	0.02309281	8.20E-03	3.64E-04	8.31E-04	3.72E-03	2.15E-04	4.73E-04	1.98E-03	1.58E-02
4096	494363.09, 3854877.25	1.44E-02	3.20E-04	7.07E-04	2.88E-03	1.68E-04	1.61E-03	2.37E-07	0.02006303	7.37E-03	3.20E-04	7.07E-04	2.88E-03	1.68E-04	3.62E-04	1.61E-03	1.34E-02
4097	494863.09, 3854877.25	1.19E-02	2.76E-04	5.59E-04	2.14E-03	1.22E-04	1.28E-03	1.99E-07	0.01630979	6.13E-03	2.76E-04	5.59E-04	2.14E-03	1.22E-04	2.60E-04	1.28E-03	1.08E-02
4098	495363.09, 3854877.25	1.04E-02	2.48E-04	4.61E-04	1.73E-03	9.59E-05	1.11E-03	2.00E-07	0.01403003	5.35E-03	2.48E-04	4.61E-04	1.73E-03	9.59E-05	2.04E-04	1.11E-03	9.19E-03
4099	495863.09, 3854877.25	9.51E-03	2.33E-04	4.08E-04	1.51E-03	8.18E-05	1.02E-03	2.11E-07	0.01275555	4.90E-03	2.33E-04	4.08E-04	1.51E-03	8.18E-05	1.74E-04	1.02E-03	8.32E-03
4100	496363.09, 3854877.25	8.46E-03	2.12E-04	3.36E-04	1.23E-03	6.52E-05	8.99E-04	2.04E-07	0.01119871	4.37E-03	2.12E-04	3.36E-04	1.23E-03	6.52E-05	1.39E-04	8.99E-04	7.25E-03
4101	496863.09, 3854877.25	7.83E-03	2.00E-04	2.95E-04	1.07E-03	5.56E-05	8.22E-04	2.03E-07	0.01026768	4.05E-03	2.00E-04	2.95E-04	1.07E-03	5.56E-05	1.18E-04	8.22E-04	6.61E-03
4102	497363.09, 3854877.25	7.60E-03	1.96E-04	2.88E-04	1.01E-03	5.21E-05	7.98E-04	2.11E-07	0.00993675	3.93E-03	1.96E-04	2.88E-04	1.01E-03	5.21E-05	1.10E-04	7.98E-04	6.38E-03
4103	497863.09, 3854877.25	7.82E-03	2.02E-04	3.24E-04	1.08E-03	5.60E-05	8.48E-04	2.38E-07	0.01032636	4.05E-03	2.02E-04	3.24E-04	1.08E-03	5.60E-05	1.17E-04	8.48E-04	6.67E-03
4104	498363.09, 3854877.25	7.65E-03	2.00E-04	3.23E-04	1.03E-03	5.36E-05	8.35E-04	2.45E-07	0.01008995	3.96E-03	2.00E-04	3.23E-04	1.03E-03	5.36E-05	1.12E-04	8.35E-04	6.52E-03
4105	471363.09, 3855377.25	2.72E-03	1.17E-04	3.86E-04	3.23E-04	1.69E-05	2.39E-04	7.01E-08	0.00379924	1.47E-03	1.17E-04	3.86E-04	3.23E-04	1.69E-05	3.20E-05	2.39E-04	2.58E-03
4106	471863.09, 3855377.25	2.83E-03	1.20E-04	4.02E-04	3.39E-04	1.78E-05	2.48E-04	7.31E-08	0.003961	1.53E-03	1.20E-04	4.02E-04	3.39E-04	1.78E-05	3.36E-05	2.48E-04	2.69E-03
4107	472363.09, 3855377.25	2.98E-03	1.24E-04	4.34E-04	3.69E-04	1.92E-05	2.65E-04	7.81E-08	0.004194	1.60E-03	1.24E-04	4.34E-04	3.69E-04	1.92E-05	3.63E-05	2.65E-04	2.85E-03
4108	472863.09, 3855377.25	3.10E-03	1.26E-04	4.48E-04	3.87E-04	2.02E-05	2.74E-04	8.13E-08	0.00435215	1.66E-03	1.26E-04	4.48E-04	3.87E-04	2.02E-05	3.81E-05	2.74E-04	2.95E-03
4109	473363.09, 3855377.25	3.26E-03	1.32E-04	4.85E-04	4.31E-04	2.22E-05	2.99E-04	8.81E-08	0.00463299	1.75E-03	1.32E-04	4.85E-04	4.31E-04	2.22E-05	4.17E-05	2.99E-04	3.16E-03
4110	473863.09, 3855377.25	3.43E-03	1.36E-04	5.15E-04	4.70E-04	2.41E-05	3.20E-04	9.42E-08	0.00489441	1.83E-03	1.36E-04	5.15E-04	4.70E-04	2.41E-05	4.51E-05	3.20E-04	3.35E-03
4111	474363.09, 3855377.25	3.62E-03	1.41E-04	5.39E-04	5.06E-04	2.60E-05	3.44E-04	9.98E-08	0.00517257	1.93E-03	1.41E-04	5.39E-04	5.06E-04	2.60E-05	4.86E-05	3.44E-04	3.54E-03
4112	474863.09, 3855377.25	3.68E-03	1.32E-04	4.57E-04	4.35E-04	2.37E-05	3.05E-04	9.03E-08	0.00502813	1.95E-03	1.32E-04	4.57E-04	4.35E-04	2.37E-05	4.42E-05	3.05E-04	3.35E-03
4113	475363.09, 3855377.25	3.04E-03	1.05E-04	1.77E-04	2.32E-04	1.21E-05	2.03E-04	5.30E-08	0.00376671	1.61E-03	1.05E-04	1.77E-04	2.32E-04	1.21E-05	2.31E-05	2.03E-04	2.36E-03
4114	475863.09, 3855377.25	2.93E-03	1.00E-04	1.08E-04	1.88E-04	9.08E-06	1.80E-04	4.09E-08	0.00351814	1.55E-03	1.00E-04	1.08E-04	1.88E-04	9.08E-06	1.78E-05	1.80E-04	2.16E-03
4115	476363.09, 3855377.25	3.17E-03	1.07E-04	1.34E-04	2.20E-04	1.09E-05	2.01E-04	4.70E-08	0.00384291	1.68E-03	1.07E-04	1.34E-04	2.20E-04	1.09E-05	2.11E-05	2.01E-04	2.37E-03
4116	476863.09, 3855377.25	3.31E-03	1.09E-04	1.21E-04	2.20E-04	1.07E-05	2.05E-04	4.55E-08	0.00398057	1.75E-03	1.09E-04	1.21E-04	2.20E-04	1.07E-05	2.11E-05	2.05E-04	2.44E-03
4117	477363.09, 3855377.25	3.55E-03	1.15E-04	1.35E-04	2.46E-04	1.21E-05	2.22E-04	4.96E-08	0.0042811	1.87E-03	1.15E-04	1.35E-04	2.46E-04	1.21E-05	2.37E-05	2.22E-04	2.63E-03
4118	477863.09, 3855377.25	4.02E-03	1.27E-04	1.96E-04	3.17E-04	1.63E-05	2.61E-04	6.16E-08	0.00493845	2.12E-03	1.27E-04	1.96E-04	3.17E-04	1.63E-05	3.09E-05	2.61E-04	3.06E-03
4119	478363.09, 3855377.25	4.65E-03	1.42E-04	2.73E-04	4.09E-04	2.18E-05	3.08E-04	7.64E-08	0.00580013	2.44E-03	1.42E-04	2.73E-04	4.09E-04	2.18E-05	4.05E-05	3.08E-04	3.63E-03
4120	478863.09, 3855377.25	5.35E-03	1.58E-04	3.54E-04	5.18E-04	2.85E-05	3.64E-04	9.21E-08	0.00676985	2.80E-03	1.58E-04	3.54E-04	5.18E-04	2.85E-05	5.21E-05	3.64E-04	4.27E-03
4121	479363.09, 3855377.25	6.47E-03	1.78E-04	4.66E-04	7.02E-04	4.04E-05	4.54E-04	1.15E-07	0.00830762	3.36E-03	1.78E-04	4.66E-04	7.02E-04	4.04E-05	7.25E-05	4.54E-04	5.28E-03
4122	479863.09, 3855377.25	7.69E-03	2.00E-04	5.71E-04	9.32E-04	5.50E-05	5.56E-04	1.36E-07	0.0100014	3.98E-03	2.00E-04	5.71E-04	9.32E-04	5.50E-05	9.64E-05	5.56E-04	6.39E-03
4123	480363.09, 3855377.25	9.49E-03	2.36E-04	7.63E-04	1.44E-03	8.50E-05	7.53E-04	1.71E-07	0.01277137	4.90E-03	2.36E-04	7.63E-04	1.44E-03	8.50E-05	1.47E-04	7.53E-04	8.33E-03
4124	480863.09, 3855377.25	1.14E-02	2.86E-04	9.90E-04	2.49E-03	1.26E-04	1.09E-03	2.05E-07	0.01639118	5.90E-03	2.86E-04	9.90E-04	2.49E-03	1.26E-04	2.10E-04	1.09E-03	1.11E-02
4125	481363.09, 3855377.25	1.34E-02	3.49E-04	1.16E-03	4.08E-03	1.68E-04	1.68E-03	2.35E-07	0.02087551	6.99E-03	3.49E-04	1.16E-03	4.08E-03	1.68E-04	2.71E-04	1.68E-03	1.47E-02
4126	481863.09, 3855377.25	1.74E-02	4.20E-04	1.21E-03	5.90E-03	2.07E-04	2.68E-03	2.61E-07	0.02782851	9.04E-03	4.20E-04	1.21E-03	5.90E-03	2.07E-04	3.27E-04	2.68E-03	1.98E-02
4127	482363.09, 3855377.25	2.73E-02	5.12E-04	1.21E-03	8.04E-03	2.50E-04	5.27E-03	2.90E-07	0.04253731	1.40E-02	5.12E-04	1.21E-03	8.04E-03	2.50E-04	3.84E-04	5.27E-03	2.97E-02
4128	482863.09, 3855377.25	1.15E-01	6.90E-04	1.20E-03	1.21E-02	3.38E-04	2.13E-02	3.15E-07	0.15021685	5.69E-02	6.90E-04	1.20E-03	1.21E-02	3.38E-04	4.96E-04	2.13E-02	9.30E-02
4129	483363.09, 3855377.25	1.63E-01	1.29E-03	1.21E-03	2.03E-02	4.84E-04	2.87E-02	3.41E-07	0.21475104	8.17E-02	1.29E-03	1.21E-03	2.03E-02	4.84E-04	6.75E-04	2.87E-02	1.34E-01
4130	483863.09, 3855377.25	2.07E-01	6.93E-03	1.21E-03	8.50E-02	8.17E-04	1.35E-02	3.63E-07	0.31451186	1.17E-01	6.93E-03	1.21E-03	8.50E-02	8.17E-04	1.12E-03	1.35E-02	2.25E-01
4131	484363.09, 3855377.25	1.95E-01	1.87E-03	1.21E-03	1.20E-01	2.00E-03	9.58E-03	3.64E-07	0.32917851	9.81E-02	1.87E-03	1.21E-03	1.20E-01	2.00E-03	3.25E-03	9.58E-03	2.36E-01
4132	484863.09, 3855377.25	1.95E-01	2.34E-03	1.19E-03	5.42E-02	6.34E-03	4.00E-02	3.72E-07	0.29939599	9.70E-02	2.34E-03	1.19E-03	5.42E-02	6.34E-03	3.21E-02	4.00E-02	2.33E-01
4133	485363.09, 3855377.25	1.23E-01	4.16E-03	1.17E-03	3.13E-02	5.02E-03	1.66E-02	3.95E-07	0.18169738	6.14E-02	4.16E-03	1.17E-03	3.13E-02	5.02E-03	1.18E-02	1.66E-02	1.31E-01
4134	485863.09, 3855377.25	7.59E-02	1.76E-03	1.11E-03	2.23E-02	2.41E-03	9.41E-03	4.15E-07	0.11289679	3.81E-02	1.76E-03	1.11E-03	2.23E-02	2.41E-03	5.61E-03	9.41E-03	8.06E-02
4135	486363.09, 3855377.25	5.94E-02	1.18E-03	1.06E-03	1.62E-02	1.52E-03	6.52E-03	3.65E-07	0.08586608	2.98E-02	1.18E-03	1.06E-03	1.62E-02	1.52E-03	3.40E-03	6.52E-03	5.97E-02
4136	486863.09, 3855377.25	4.89E-02	9.15E-04	1.03E-03	1.27E-02	1.09E-03	5.15E-03	3.46E-07	0.06986588	2.46E-02	9.15E-04	1.03E-03	1.27E-02	1.09E-03	2.41E-03	5.15E-03	4.79E-02
4137	487363.09, 3855377.25	4.22E-02	8.11E-04	1.07E-03	1.19E-02	9.42E-04	4.92E-03	3.79E-07	0.06180149	2.13E-02	8.11E-04	1.07E-03	1.19E-02	9.42E-04	2.17E-03	4.92E-03	4.31E-02
4138	487863.09, 3855377.25	3.70E-02	7.30E-04	1.10E-03	1.11E-02	8.26E-04	4.64E-03	4.09E-07	0.05539588	1.87E-02	7.30E-04	1.10E-03	1.11E-02	8.26E-04	1.96E-03	4.64E-03	3.90E-02
4139	488363.09, 3855377.25	3.31E-02	6.66E-04	1.11E-03	1.04E-02	7.33E-04	4.42E-03	4.42E-07	0.05046103	1.68E-02	6.66E-04	1.11E-03	1.04E-02	7.33E-04	1.77E-03	4.42E-03	3.59E-02
4140	488863.09, 3855377.25	3.02E-02	6.19E-04	1.09E-03	9.76E-03	6.54E-04	4.22E-03	4.76E-07	0.04653707	1.53E-02	6.19E-04	1.09E-03	9.76E-03	6.54E-04	1.60E-03	4.22E-03	3.33E-02
4141	489363.09, 3855377.25	2.79E-02	5.79E-04	1.05E-03	9.02E-03	5.84E-04	3.99E-03	5.01E-07	0.04316842	1.42E-02	5.79E-04	1.05E-03	9.02E-03	5.84E-04	1.44E-03	3.99E-03	3.09E-02
4142	489863.09, 3855377.25	2.62E-02	5.43E-04	1.00E-03	8.15E-03	5.19E-04	3.63E-03	4.89E-07	0.04006412	1.33E-02	5.43E-04	1.00E-03	8.15E-03	5.19E-04	1.26E-03	3.63E-03	2.84E-02
4143	490363.09, 3855377.25	2.46E-02	5.23E-04	9.84E-04	7.73E-03	4.75E-04	3.53E-03	5.39E-07	0.03788936	1.26E-02	5.23E-04	9.84E-04	7.73E-03	4.75E-04	1.15E-03	3.53E-03	2.70E-02
4144	490863.09, 3855377.25	2.17E-02	4.16E-04	7.79E-04	5.00E-03	3.24E-04	2.43E-03	2.50E-07	0.03061614	1.10E-02	4.16E-04	7.79E-04	5.00E-03	3.24E-04	7.51E-04	2.43E-03	2.07E-02
4145	491363.09, 3855377.25	1.94E-02	3.79E-04	7.03E-04	4.26E-03	2.68E-04	2.10E-03	1.98E-07	0.02714278	9.88E-03	3.79E-04	7.03E-04	4.26E-03	2.68E-04	6.10E-04	2.10E-03	1.82E-02
4146	491863.09, 3855377.25	2.10E-02	4.47E-04	8.80E-04	5.94E-03	3.51E-04	2.89E-03	4.58E-07	0.03152493	1.07E-02	4.47E-04	8.80E-04	5.94E-03	3.51E-04	8.16E-04	2.89E-03	2.21E-02
4147	492363.09, 3855377.25	2.01E-02	4.36E-04	8.71E-04	5.67E-03	3.26E-04	2.87E-03	4.86E-07	0.03027961	1.03E-02	4.36E-04	8.71E-04	5.67E-03	3.26E-04	7.52E-04	2.87E-03	2.12E-02
4148	492863.09, 3855377.25	1.92E-02	4.16E-04	8.43E-04	5.19E-03	2.96E-04	2.71E-03	4.75E-07	0.02863441	9.81E-03	4.16E-04	8.43E-04	5.19E-03	2.96E-04	6.75E-04	2.71E-03	1.99E-02

4149	493363.09, 3855377.25	1.81E-02	3.86E-04	7.90E-04	4.49E-03	2.59E-04	2.43E-03	4.62E-07	0.02647741	9.26E-03	3.86E-04	7.90E-04	4.49E-03	2.59E-04	5.80E-04	2.43E-03	1.82E-02
4150	493863.09, 3855377.25	1.63E-02	3.40E-04	6.82E-04	3.47E-03	2.02E-04	1.99E-03	3.36E-07	0.02300794	8.34E-03	3.40E-04	6.82E-04	3.47E-03	2.02E-04	4.44E-04	1.99E-03	1.55E-02
4151	494363.09, 3855377.25	1.36E-02	2.93E-04	5.53E-04	2.59E-03	1.48E-04	1.57E-03	3.01E-07	0.01872131	6.95E-03	2.93E-04	5.53E-04	2.59E-03	1.48E-04	3.20E-04	1.57E-03	1.24E-02
4152	494863.09, 3855377.25	1.12E-02	2.53E-04	4.24E-04	1.92E-03	1.06E-04	1.27E-03	2.83E-07	0.01513828	5.73E-03	2.53E-04	4.24E-04	1.92E-03	1.06E-04	2.29E-04	1.27E-03	9.94E-03
4153	495363.09, 3855377.25	9.57E-03	2.27E-04	3.38E-04	1.51E-03	8.09E-05	1.09E-03	2.75E-07	0.01282263	4.93E-03	2.27E-04	3.38E-04	1.51E-03	8.09E-05	1.74E-04	1.09E-03	8.35E-03
4154	495863.09, 3855377.25	8.60E-03	2.09E-04	2.84E-04	1.25E-03	6.55E-05	9.64E-04	2.68E-07	0.01137328	4.43E-03	2.09E-04	2.84E-04	1.25E-03	6.55E-05	1.40E-04	9.64E-04	7.35E-03
4155	496363.09, 3855377.25	8.31E-03	2.05E-04	2.80E-04	1.17E-03	6.10E-05	9.35E-04	2.78E-07	0.01096348	4.29E-03	2.05E-04	2.80E-04	1.17E-03	6.10E-05	1.30E-04	9.35E-04	7.08E-03
4156	496863.09, 3855377.25	8.07E-03	2.01E-04	2.79E-04	1.12E-03	5.76E-05	9.10E-04	2.86E-07	0.0106369	4.17E-03	2.01E-04	2.79E-04	1.12E-03	5.76E-05	1.22E-04	9.10E-04	6.86E-03
4157	497363.09, 3855377.25	7.99E-03	2.01E-04	2.91E-04	1.10E-03	5.67E-05	9.15E-04	2.99E-07	0.01055018	4.13E-03	2.01E-04	2.91E-04	1.10E-03	5.67E-05	1.20E-04	9.15E-04	6.81E-03
4158	497863.09, 3855377.25	8.06E-03	2.05E-04	3.14E-04	1.12E-03	5.80E-05	9.39E-04	3.18E-07	0.01070228	4.17E-03	2.05E-04	3.14E-04	1.12E-03	5.80E-05	1.22E-04	9.39E-04	6.93E-03
4159	498363.09, 3855377.25	8.21E-03	2.09E-04	3.43E-04	1.16E-03	6.03E-05	9.73E-04	3.39E-07	0.01095392	4.25E-03	2.09E-04	3.43E-04	1.16E-03	6.03E-05	1.26E-04	9.73E-04	7.12E-03
4160	471363.09, 3855877.25	2.63E-03	1.15E-04	3.77E-04	3.32E-04	1.73E-05	2.45E-04	7.18E-08	0.00371377	1.42E-03	1.15E-04	3.77E-04	3.32E-04	1.73E-05	3.17E-05	2.45E-04	2.54E-03
4161	471863.09, 3855877.25	2.74E-03	1.18E-04	3.94E-04	3.48E-04	1.82E-05	2.55E-04	7.47E-08	0.00387735	1.48E-03	1.18E-04	3.94E-04	3.48E-04	1.82E-05	3.33E-05	2.55E-04	2.64E-03
4162	472363.09, 3855877.25	2.89E-03	1.23E-04	4.30E-04	3.86E-04	2.00E-05	2.78E-04	8.03E-08	0.00413095	1.56E-03	1.23E-04	4.30E-04	3.86E-04	2.00E-05	3.63E-05	2.78E-04	2.83E-03
4163	472863.09, 3855877.25	3.02E-03	1.24E-04	4.36E-04	3.96E-04	2.08E-05	2.82E-04	8.21E-08	0.00427929	1.62E-03	1.24E-04	4.36E-04	3.96E-04	2.08E-05	3.76E-05	2.82E-04	2.92E-03
4164	473363.09, 3855877.25	3.20E-03	1.30E-04	4.77E-04	4.48E-04	2.32E-05	3.14E-04	8.94E-08	0.0045935	1.71E-03	1.30E-04	4.77E-04	4.48E-04	2.32E-05	4.15E-05	3.14E-04	3.15E-03
4165	473863.09, 3855877.25	3.39E-03	1.35E-04	5.05E-04	4.89E-04	2.52E-05	3.38E-04	9.51E-08	0.00488649	1.81E-03	1.35E-04	5.05E-04	4.89E-04	2.52E-05	4.49E-05	3.38E-04	3.35E-03
4166	474363.09, 3855877.25	3.57E-03	1.38E-04	5.20E-04	5.18E-04	2.70E-05	3.60E-04	9.96E-08	0.00513133	1.90E-03	1.38E-04	5.20E-04	5.18E-04	2.70E-05	4.80E-05	3.60E-04	3.51E-03
4167	474863.09, 3855877.25	3.61E-03	1.27E-04	4.16E-04	4.12E-04	2.33E-05	2.96E-04	8.71E-08	0.00488113	1.91E-03	1.27E-04	4.16E-04	4.12E-04	2.33E-05	4.16E-05	2.96E-04	3.22E-03
4168	475363.09, 3855877.25	3.24E-03	1.09E-04	2.39E-04	2.75E-04	1.54E-05	2.24E-04	6.47E-08	0.00410043	1.71E-03	1.09E-04	2.39E-04	2.75E-04	1.54E-05	2.83E-05	2.24E-04	2.60E-03
4169	475863.09, 3855877.25	2.64E-03	9.00E-05	6.93E-05	1.44E-04	6.68E-06	1.52E-04	3.33E-08	0.00310652	1.40E-03	9.00E-05	6.93E-05	1.44E-04	6.68E-06	1.35E-05	1.52E-04	1.87E-03
4170	476363.09, 3855877.25	2.79E-03	9.33E-05	7.28E-05	1.55E-04	7.22E-06	1.63E-04	3.53E-08	0.00328297	1.47E-03	9.33E-05	7.28E-05	1.55E-04	7.22E-06	1.45E-05	1.63E-04	1.98E-03
4171	476863.09, 3855877.25	3.22E-03	1.06E-04	1.30E-04	2.23E-04	1.11E-05	2.08E-04	4.95E-08	0.00390174	1.70E-03	1.06E-04	1.30E-04	2.23E-04	1.11E-05	2.15E-05	2.08E-04	2.40E-03
4172	477363.09, 3855877.25	3.58E-03	1.15E-04	1.66E-04	2.68E-04	1.38E-05	2.38E-04	5.83E-08	0.00437693	1.88E-03	1.15E-04	1.66E-04	2.68E-04	1.38E-05	2.64E-05	2.38E-04	2.71E-03
4173	477863.09, 3855877.25	4.02E-03	1.25E-04	2.13E-04	3.31E-04	1.74E-05	2.73E-04	6.82E-08	0.00498339	2.11E-03	1.25E-04	2.13E-04	3.31E-04	1.74E-05	3.23E-05	2.73E-04	3.10E-03
4174	478363.09, 3855877.25	4.65E-03	1.39E-04	2.83E-04	4.16E-04	2.29E-05	3.25E-04	8.41E-08	0.00583219	2.43E-03	1.39E-04	2.83E-04	4.16E-04	2.29E-05	4.23E-05	3.25E-04	3.66E-03
4175	478863.09, 3855877.25	5.56E-03	1.54E-04	3.75E-04	5.54E-04	3.14E-05	3.95E-04	1.02E-07	0.00707196	2.90E-03	1.54E-04	3.75E-04	5.54E-04	3.14E-05	5.60E-05	3.95E-04	4.46E-03
4176	479363.09, 3855877.25	6.72E-03	1.75E-04	4.90E-04	7.63E-04	4.49E-05	4.97E-04	1.28E-07	0.00869254	3.48E-03	1.75E-04	4.90E-04	7.63E-04	4.49E-05	7.85E-05	4.97E-04	5.53E-03
4177	479863.09, 3855877.25	7.98E-03	1.96E-04	5.85E-04	1.04E-03	6.13E-05	6.23E-04	1.53E-07	0.01048255	4.12E-03	1.96E-04	5.85E-04	1.04E-03	6.13E-05	1.06E-04	6.23E-04	6.73E-03
4178	480363.09, 3855877.25	9.55E-03	2.25E-04	7.10E-04	1.53E-03	8.69E-05	8.24E-04	1.85E-07	0.01292651	4.92E-03	2.25E-04	7.10E-04	1.53E-03	8.69E-05	1.49E-04	8.24E-04	8.44E-03
4179	480863.09, 3855877.25	1.14E-02	2.63E-04	8.42E-04	2.40E-03	1.22E-04	1.15E-03	2.23E-07	0.01615131	5.85E-03	2.63E-04	8.42E-04	2.40E-03	1.22E-04	2.07E-04	1.15E-03	1.08E-02
4180	481363.09, 3855877.25	1.37E-02	2.83E-04	8.38E-04	2.77E-03	1.45E-04	1.31E-03	2.33E-07	0.01906081	7.02E-03	2.83E-04	8.38E-04	2.77E-03	1.45E-04	2.43E-04	1.31E-03	1.26E-02
4181	481863.09, 3855877.25	1.61E-02	3.64E-04	9.93E-04	5.36E-03	2.02E-04	2.72E-03	2.86E-07	0.02574511	8.32E-03	3.64E-04	9.93E-04	5.36E-03	2.02E-04	3.33E-04	2.72E-03	1.83E-02
4182	482363.09, 3855877.25	2.19E-02	4.19E-04	9.95E-04	6.87E-03	2.32E-04	5.64E-03	3.14E-07	0.03609469	1.13E-02	4.19E-04	9.95E-04	6.87E-03	2.32E-04	3.91E-04	5.64E-03	2.58E-02
4183	482863.09, 3855877.25	3.85E-02	5.01E-04	1.00E-03	9.24E-03	2.94E-04	1.02E-02	3.38E-07	0.05974615	1.95E-02	5.01E-04	1.00E-03	9.24E-03	2.94E-04	5.15E-04	1.02E-02	4.13E-02
4184	483363.09, 3855877.25	1.40E-01	6.58E-04	1.02E-03	1.29E-02	3.84E-04	3.87E-02	3.68E-07	0.19361469	6.92E-02	6.58E-04	1.02E-03	1.29E-02	3.84E-04	7.10E-04	3.87E-02	1.24E-01
4185	483863.09, 3855877.25	1.74E-01	1.17E-03	1.02E-03	1.98E-02	5.32E-04	2.84E-02	4.05E-07	0.22451607	8.68E-02	1.17E-03	1.02E-03	1.98E-02	5.32E-04	1.02E-03	2.84E-02	1.39E-01
4186	484363.09, 3855877.25	2.33E-01	1.09E-02	1.05E-03	5.41E-02	8.26E-04	1.68E-02	4.43E-07	0.31715157	1.39E-01	1.09E-02	1.05E-03	5.41E-02	8.26E-04	1.82E-03	1.68E-02	2.25E-01
4187	484863.09, 3855877.25	2.01E-01	2.17E-03	1.05E-03	1.58E-01	1.68E-03	1.41E-02	4.64E-07	0.3773529	1.02E-01	2.17E-03	1.05E-03	1.58E-01	1.68E-03	3.94E-03	1.41E-02	2.82E-01
4188	485363.09, 3855877.25	2.00E-01	2.29E-03	1.03E-03	7.05E-02	7.18E-03	4.00E-02	4.82E-07	0.32107791	9.96E-02	2.29E-03	1.03E-03	7.05E-02	7.18E-03	2.94E-02	4.00E-02	2.50E-01
4189	485863.09, 3855877.25	1.49E-01	4.60E-03	1.03E-03	3.86E-02	6.33E-03	2.63E-02	5.19E-07	0.22631072	7.43E-02	4.60E-03	1.03E-03	3.86E-02	6.33E-03	1.86E-02	2.63E-02	1.70E-01
4190	486363.09, 3855877.25	8.40E-02	1.76E-03	9.64E-04	2.53E-02	2.57E-03	1.30E-02	5.27E-07	0.12753903	4.20E-02	1.76E-03	9.64E-04	2.53E-02	2.57E-03	7.54E-03	1.30E-02	9.31E-02
4191	486863.09, 3855877.25	6.45E-02	1.22E-03	9.34E-04	1.95E-02	1.72E-03	9.45E-03	4.94E-07	0.09736774	3.24E-02	1.22E-03	9.34E-04	1.95E-02	1.72E-03	4.86E-03	9.45E-03	7.01E-02
4192	487363.09, 3855877.25	5.26E-02	1.02E-03	9.57E-04	1.75E-02	1.39E-03	8.26E-03	5.43E-07	0.08175482	2.65E-02	1.02E-03	9.57E-04	1.75E-02	1.39E-03	3.90E-03	8.26E-03	5.95E-02
4193	487863.09, 3855877.25	4.47E-02	8.91E-04	9.73E-04	1.59E-02	1.16E-03	7.38E-03	5.92E-07	0.0709619	2.26E-02	8.91E-04	9.73E-04	1.59E-02	1.16E-03	3.22E-03	7.38E-03	5.21E-02
4194	488363.09, 3855877.25	3.91E-02	7.90E-04	9.95E-04	1.43E-02	9.81E-04	6.57E-03	6.44E-07	0.06269063	1.98E-02	7.90E-04	9.95E-04	1.43E-02	9.81E-04	2.68E-03	6.57E-03	4.61E-02
4195	488863.09, 3855877.25	3.50E-02	7.14E-04	1.01E-03	1.30E-02	8.42E-04	5.98E-03	6.94E-07	0.05651686	1.78E-02	7.14E-04	1.01E-03	1.30E-02	8.42E-04	2.27E-03	5.98E-03	4.15E-02
4196	489363.09, 3855877.25	3.20E-02	6.52E-04	9.91E-04	1.17E-02	7.31E-04	5.43E-03	7.35E-07	0.05151297	1.63E-02	6.52E-04	9.91E-04	1.17E-02	7.31E-04	1.93E-03	5.43E-03	3.77E-02
4197	489863.09, 3855877.25	2.96E-02	6.04E-04	9.60E-04	1.06E-02	6.42E-04	4.96E-03	7.84E-07	0.04740119	1.51E-02	6.04E-04	9.60E-04	1.06E-02	6.42E-04	1.65E-03	4.96E-03	3.45E-02
4198	490363.09, 3855877.25	2.75E-02	5.68E-04	9.31E-04	9.72E-03	5.69E-04	4.63E-03	8.70E-07	0.0439598	1.40E-02	5.68E-04	9.31E-04	9.72E-03	5.69E-04	1.43E-03	4.63E-03	3.19E-02
4199	490863.09, 3855877.25	2.59E-02	5.31E-04	8.81E-04	8.66E-03	5.04E-04	4.17E-03	8.79E-07	0.04065817	1.32E-02	5.31E-04	8.81E-04	8.66E-03	5.04E-04	1.23E-03	4.17E-03	2.92E-02
4200	491363.09, 3855877.25	2.45E-02	4.79E-04	8.06E-04	7.20E-03	4.30E-04	3.58E-03	7.18E-07	0.03697912	1.24E-02	4.79E-04	8.06E-04	7.20E-03	4.30E-04	1.02E-03	3.58E-03	2.60E-02
4201	491863.09, 3855877.25	2.31E-02	4.83E-04	8.40E-04	7.26E-03	4.07E-04	3.72E-03	8.83E-07	0.03584589	1.18E-02	4.83E-04	8.40E-04	7.26E-03	4.07E-04	9.50E-04	3.72E-03	2.55E-02
4202	492363.09, 3855877.25	2.20E-02	4.56E-04	8.07E-04	6.48E-03	3.63E-04	3.43E-03	8.09E-07	0.03356425	1.12E-02	4.56E-04	8.07E-04	6.48E-03	3.63E-04	8.31E-04	3.43E-03	2.36E-02

4203	492863.09, 3855877.25	2.09E-02	4.31E-04	7.79E-04	5.83E-03	3.26E-04	3.20E-03	8.65E-07	0.03149026	1.07E-02	4.31E-04	7.79E-04	5.83E-03	3.26E-04	7.33E-04	3.20E-03	2.20E-02
4204	493363.09, 3855877.25	1.90E-02	3.75E-04	6.79E-04	4.44E-03	2.57E-04	2.57E-03	6.17E-07	0.02734718	9.69E-03	3.75E-04	6.79E-04	4.44E-03	2.57E-04	5.65E-04	2.57E-03	1.86E-02
4205	493863.09, 3855877.25	1.57E-02	3.18E-04	5.46E-04	3.17E-03	1.80E-04	1.95E-03	5.34E-07	0.02190246	8.03E-03	3.18E-04	5.46E-04	3.17E-03	1.80E-04	3.89E-04	1.95E-03	1.46E-02
4206	494363.09, 3855877.25	1.25E-02	2.70E-04	4.16E-04	2.26E-03	1.24E-04	1.54E-03	4.81E-07	0.01709172	6.39E-03	2.70E-04	4.16E-04	2.26E-03	1.24E-04	2.67E-04	1.54E-03	1.13E-02
4207	494863.09, 3855877.25	1.05E-02	2.39E-04	3.29E-04	1.73E-03	9.20E-05	1.29E-03	4.43E-07	0.01413882	5.38E-03	2.39E-04	3.29E-04	1.73E-03	9.20E-05	1.96E-04	1.29E-03	9.25E-03
4208	495363.09, 3855877.25	8.78E-03	2.10E-04	2.47E-04	1.26E-03	6.51E-05	1.03E-03	3.77E-07	0.01160128	4.53E-03	2.10E-04	2.47E-04	1.26E-03	6.51E-05	1.38E-04	1.03E-03	7.49E-03
4209	495863.09, 3855877.25	8.50E-03	2.06E-04	2.50E-04	1.20E-03	6.13E-05	1.01E-03	3.82E-07	0.01122086	4.39E-03	2.06E-04	2.50E-04	1.20E-03	6.13E-05	1.29E-04	1.01E-03	7.24E-03
4210	496363.09, 3855877.25	8.31E-03	2.03E-04	2.57E-04	1.15E-03	5.88E-05	9.91E-04	3.85E-07	0.01096776	4.29E-03	2.03E-04	2.57E-04	1.15E-03	5.88E-05	1.23E-04	9.91E-04	7.07E-03
4211	496863.09, 3855877.25	8.29E-03	2.05E-04	2.76E-04	1.16E-03	5.91E-05	1.01E-03	3.98E-07	0.01099571	4.28E-03	2.05E-04	2.76E-04	1.16E-03	5.91E-05	1.23E-04	1.01E-03	7.11E-03
4212	497363.09, 3855877.25	8.32E-03	2.07E-04	2.99E-04	1.17E-03	5.99E-05	1.03E-03	4.11E-07	0.01108464	4.30E-03	2.07E-04	2.99E-04	1.17E-03	5.99E-05	1.24E-04	1.03E-03	7.19E-03
4213	497863.09, 3855877.25	8.45E-03	2.12E-04	3.28E-04	1.21E-03	6.20E-05	1.06E-03	4.29E-07	0.01132086	4.37E-03	2.12E-04	3.28E-04	1.21E-03	6.20E-05	1.28E-04	1.06E-03	7.37E-03
4214	498363.09, 3855877.25	8.93E-03	2.23E-04	3.82E-04	1.33E-03	6.90E-05	1.14E-03	4.74E-07	0.01207289	4.62E-03	2.23E-04	3.82E-04	1.33E-03	6.90E-05	1.42E-04	1.14E-03	7.90E-03
4215	471363.09, 3856377.25	2.56E-03	1.10E-04	3.63E-04	3.41E-04	1.80E-05	2.48E-04	7.21E-08	0.00364047	1.38E-03	1.10E-04	3.63E-04	3.41E-04	1.80E-05	3.20E-05	2.48E-04	2.49E-03
4216	471863.09, 3856377.25	2.68E-03	1.13E-04	3.77E-04	3.55E-04	1.88E-05	2.57E-04	7.48E-08	0.0037972	1.44E-03	1.13E-04	3.77E-04	3.55E-04	1.88E-05	3.36E-05	2.57E-04	2.59E-03
4217	472363.09, 3856377.25	2.81E-03	1.18E-04	4.02E-04	3.84E-04	2.03E-05	2.75E-04	7.93E-08	0.00401078	1.51E-03	1.18E-04	4.02E-04	3.84E-04	2.03E-05	3.63E-05	2.75E-04	2.75E-03
4218	472863.09, 3856377.25	2.97E-03	1.22E-04	4.29E-04	4.20E-04	2.20E-05	2.99E-04	8.48E-08	0.00426614	1.60E-03	1.22E-04	4.29E-04	4.20E-04	2.20E-05	3.94E-05	2.99E-04	2.93E-03
4219	473363.09, 3856377.25	3.14E-03	1.27E-04	4.51E-04	4.53E-04	2.36E-05	3.19E-04	8.99E-08	0.00450908	1.68E-03	1.27E-04	4.51E-04	4.53E-04	2.36E-05	4.25E-05	3.19E-04	3.09E-03
4220	473863.09, 3856377.25	3.33E-03	1.33E-04	4.90E-04	5.12E-04	2.62E-05	3.58E-04	9.84E-08	0.0048507	1.78E-03	1.33E-04	4.90E-04	5.12E-04	2.62E-05	4.72E-05	3.58E-04	3.35E-03
4221	474363.09, 3856377.25	3.48E-03	1.33E-04	4.80E-04	5.05E-04	2.67E-05	3.50E-04	9.85E-08	0.00497543	1.85E-03	1.33E-04	4.80E-04	5.05E-04	2.67E-05	4.83E-05	3.50E-04	3.40E-03
4222	474863.09, 3856377.25	3.62E-03	1.29E-04	4.48E-04	4.74E-04	2.63E-05	3.37E-04	9.60E-08	0.00503599	1.92E-03	1.29E-04	4.48E-04	4.74E-04	2.63E-05	4.78E-05	3.37E-04	3.38E-03
4223	475363.09, 3856377.25	3.61E-03	1.19E-04	3.56E-04	3.79E-04	2.21E-05	2.83E-04	8.45E-08	0.00477432	1.90E-03	1.19E-04	3.56E-04	3.79E-04	2.21E-05	4.04E-05	2.83E-04	3.10E-03
4224	475863.09, 3856377.25	3.29E-03	1.07E-04	2.25E-04	2.72E-04	1.53E-05	2.27E-04	6.55E-08	0.00413275	1.73E-03	1.07E-04	2.25E-04	2.72E-04	1.53E-05	2.86E-05	2.27E-04	2.60E-03
4225	476363.09, 3856377.25	3.32E-03	1.07E-04	2.01E-04	2.63E-04	1.44E-05	2.25E-04	6.29E-08	0.004126	1.74E-03	1.07E-04	2.01E-04	2.63E-04	1.44E-05	2.71E-05	2.25E-04	2.58E-03
4226	476863.09, 3856377.25	3.48E-03	1.10E-04	1.99E-04	2.74E-04	1.49E-05	2.36E-04	6.45E-08	0.00431013	1.83E-03	1.10E-04	1.99E-04	2.74E-04	1.49E-05	2.80E-05	2.36E-04	2.69E-03
4227	477363.09, 3856377.25	3.71E-03	1.16E-04	2.08E-04	2.98E-04	1.62E-05	2.53E-04	6.86E-08	0.00460162	1.95E-03	1.16E-04	2.08E-04	2.98E-04	1.62E-05	3.03E-05	2.53E-04	2.87E-03
4228	477863.09, 3856377.25	3.56E-03	1.12E-04	1.46E-04	2.55E-04	1.30E-05	2.37E-04	5.78E-08	0.00431867	1.87E-03	1.12E-04	1.46E-04	2.55E-04	1.30E-05	2.48E-05	2.37E-04	2.66E-03
4229	478363.09, 3856377.25	3.64E-03	1.13E-04	1.16E-04	2.39E-04	1.18E-05	2.33E-04	5.26E-08	0.00435604	1.91E-03	1.13E-04	1.16E-04	2.39E-04	1.18E-05	2.25E-05	2.33E-04	2.65E-03
4230	478863.09, 3856377.25	4.95E-03	1.39E-04	2.79E-04	4.40E-04	2.47E-05	3.46E-04	9.15E-08	0.00617826	2.58E-03	1.39E-04	2.79E-04	4.40E-04	2.47E-05	4.48E-05	3.46E-04	3.85E-03
4231	479363.09, 3856377.25	5.96E-03	1.54E-04	3.60E-04	5.80E-04	3.39E-05	4.26E-04	1.12E-07	0.00751277	3.09E-03	1.54E-04	3.60E-04	5.80E-04	3.39E-05	5.99E-05	4.26E-04	4.70E-03
4232	479863.09, 3856377.25	7.77E-03	1.83E-04	5.37E-04	9.93E-04	6.06E-05	6.25E-04	1.60E-07	0.01016879	4.00E-03	1.83E-04	5.37E-04	9.93E-04	6.06E-05	1.03E-04	6.25E-04	6.50E-03
4233	480363.09, 3856377.25	9.32E-03	2.15E-04	6.89E-04	1.65E-03	9.22E-05	8.88E-04	2.07E-07	0.01285794	4.80E-03	2.15E-04	6.89E-04	1.65E-03	9.22E-05	1.56E-04	8.88E-04	8.49E-03
4234	480863.09, 3856377.25	1.07E-02	2.46E-04	7.76E-04	2.42E-03	1.21E-04	1.20E-03	2.44E-07	0.01547041	5.51E-03	2.46E-04	7.76E-04	2.42E-03	1.21E-04	2.05E-04	1.20E-03	1.05E-02
4235	481363.09, 3856377.25	1.22E-02	2.83E-04	8.33E-04	3.48E-03	1.55E-04	1.73E-03	2.80E-07	0.01870143	6.31E-03	2.83E-04	8.33E-04	3.48E-03	1.55E-04	2.63E-04	1.73E-03	1.30E-02
4236	481863.09, 3856377.25	1.41E-02	3.27E-04	8.66E-04	4.86E-03	1.85E-04	2.99E-03	3.19E-07	0.0233289	7.30E-03	3.27E-04	8.66E-04	4.86E-03	1.85E-04	3.27E-04	2.99E-03	1.69E-02
4237	482363.09, 3856377.25	1.75E-02	3.64E-04	8.59E-04	5.92E-03	2.07E-04	5.29E-03	3.52E-07	0.03013449	9.02E-03	3.64E-04	8.59E-04	5.92E-03	2.07E-04	3.86E-04	5.29E-03	2.21E-02
4238	482863.09, 3856377.25	2.48E-02	4.14E-04	8.62E-04	7.48E-03	2.53E-04	8.35E-03	3.79E-07	0.04214271	1.27E-02	4.14E-04	8.62E-04	7.48E-03	2.53E-04	4.86E-04	8.35E-03	3.05E-02
4239	483363.09, 3856377.25	6.87E-02	4.85E-04	8.80E-04	9.59E-03	3.17E-04	2.66E-02	4.07E-07	0.10661264	3.42E-02	4.85E-04	8.80E-04	9.59E-03	3.17E-04	6.29E-04	2.66E-02	7.27E-02
4240	483863.09, 3856377.25	1.54E-01	6.26E-04	8.94E-04	1.29E-02	4.07E-04	5.55E-02	4.42E-07	0.22392417	7.58E-02	6.26E-04	8.94E-04	1.29E-02	4.07E-04	8.68E-04	5.55E-02	1.47E-01
4241	484363.09, 3856377.25	1.78E-01	1.02E-03	9.16E-04	1.88E-02	5.33E-04	5.55E-02	4.89E-07	0.2551825	8.87E-02	1.02E-03	9.16E-04	1.88E-02	5.33E-04	1.24E-03	5.55E-02	1.67E-01
4242	484863.09, 3856377.25	2.23E-01	8.22E-03	9.42E-04	3.89E-02	7.65E-04	2.77E-02	5.52E-07	0.30000664	1.28E-01	8.22E-03	9.42E-04	3.89E-02	7.65E-04	1.86E-03	2.77E-02	2.06E-01
4243	485363.09, 3856377.25	2.05E-01	2.68E-03	9.48E-04	1.46E-01	1.40E-03	1.98E-02	6.10E-07	0.3752206	1.05E-01	2.68E-03	9.48E-04	1.46E-01	1.40E-03	3.43E-03	1.98E-02	2.79E-01
4244	485863.09, 3856377.25	2.03E-01	2.26E-03	9.33E-04	8.89E-02	5.33E-03	3.05E-02	6.39E-07	0.33054625	1.01E-01	2.26E-03	9.33E-04	8.89E-02	5.33E-03	1.76E-02	3.05E-02	2.47E-01
4245	486363.09, 3856377.25	1.78E-01	5.22E-03	9.16E-04	3.92E-02	6.75E-03	3.04E-02	6.32E-07	0.26045733	8.82E-02	5.22E-03	9.16E-04	3.92E-02	6.75E-03	2.10E-02	3.04E-02	1.92E-01
4246	486863.09, 3856377.25	8.86E-02	1.97E-03	9.01E-04	3.00E-02	3.12E-03	1.66E-02	7.27E-07	0.1412141	4.44E-02	1.97E-03	9.01E-04	3.00E-02	3.12E-03	9.30E-03	1.66E-02	1.06E-01
4247	487363.09, 3856377.25	6.57E-02	1.36E-03	9.00E-04	2.51E-02	2.08E-03	1.27E-02	7.65E-07	0.10794047	3.31E-02	1.36E-03	9.00E-04	2.51E-02	2.08E-03	6.22E-03	1.27E-02	8.15E-02
4248	487863.09, 3856377.25	5.33E-02	1.10E-03	9.09E-04	2.18E-02	1.56E-03	1.06E-02	8.56E-07	0.08931782	2.70E-02	1.10E-03	9.09E-04	2.18E-02	1.56E-03	4.62E-03	1.06E-02	6.76E-02
4249	488363.09, 3856377.25	4.56E-02	9.42E-04	9.06E-04	1.89E-02	1.24E-03	9.00E-03	9.37E-07	0.07657004	2.31E-02	9.42E-04	9.06E-04	1.89E-02	1.24E-03	3.55E-03	9.00E-03	5.77E-02
4250	488863.09, 3856377.25	4.03E-02	8.31E-04	9.28E-04	1.66E-02	1.02E-03	7.79E-03	1.04E-06	0.06741344	2.05E-02	8.31E-04	9.28E-04	1.66E-02	1.02E-03	2.80E-03	7.79E-03	5.04E-02
4251	489363.09, 3856377.25	3.64E-02	7.48E-04	9.32E-04	1.46E-02	8.55E-04	6.88E-03	1.11E-06	0.06040057	1.85E-02	7.48E-04	9.32E-04	1.46E-02	8.55E-04	2.26E-03	6.88E-03	4.48E-02
4252	489863.09, 3856377.25	3.32E-02	6.82E-04	9.21E-04	1.30E-02	7.34E-04	6.23E-03	1.26E-06	0.05472842	1.69E-02	6.82E-04	9.21E-04	1.30E-02	7.34E-04	1.86E-03	6.23E-03	4.03E-02
4253	490363.09, 3856377.25	3.06E-02	6.26E-04	8.98E-04	1.15E-02	6.37E-04	5.62E-03	1.41E-06	0.0499507	1.56E-02	6.26E-04	8.98E-04	1.15E-02	6.37E-04	1.55E-03	5.62E-03	3.65E-02
4254	490863.09, 3856377.25	2.86E-02	5.79E-04	8.64E-04	1.03E-02	5.59E-04	5.16E-03	1.64E-06	0.04599823	1.46E-02	5.79E-04	8.64E-04	1.03E-02	5.59E-04	1.32E-03	5.16E-03	3.33E-02
4255	491363.09, 3856377.25	2.68E-02	5.43E-04	8.35E-04	9.19E-03	4.95E-04	4.79E-03	1.96E-06	0.04261574	1.36E-02	5.43E-04	8.35E-04	9.19E-03	4.95E-04	1.14E-03	4.79E-03	3.06E-02
4256	491863.09, 3856377.25	2.52E-02	5.10E-04	8.03E-04	8.18E-03	4.39E-04	4.42E-03	1.99E-06	0.03960096	1.29E-02	5.10E-04	8.03E-04	8.18E-03	4.39E-04	9.84E-04	4.42E-03	2.82E-02

4257	492363.09, 3856377.25	2.40E-02	4.74E-04	7.62E-04	7.13E-03	3.87E-04	3.98E-03	1.89E-06	0.03670354	1.22E-02	4.74E-04	7.62E-04	7.13E-03	3.87E-04	8.48E-04	3.98E-03	2.58E-02
4258	492863.09, 3856377.25	2.22E-02	4.22E-04	6.95E-04	5.69E-03	3.19E-04	3.32E-03	1.79E-06	0.03262398	1.13E-02	4.22E-04	6.95E-04	5.69E-03	3.19E-04	6.87E-04	3.32E-03	2.24E-02
4259	493363.09, 3856377.25	1.78E-02	3.38E-04	5.33E-04	3.65E-03	2.06E-04	2.35E-03	1.22E-06	0.0248672	9.05E-03	3.38E-04	5.33E-04	3.65E-03	2.06E-04	4.35E-04	2.35E-03	1.66E-02
4260	493863.09, 3856377.25	1.48E-02	3.00E-04	4.50E-04	2.83E-03	1.55E-04	1.96E-03	1.07E-06	0.02045568	7.54E-03	3.00E-04	4.50E-04	2.83E-03	1.55E-04	3.25E-04	1.96E-03	1.36E-02
4261	494363.09, 3856377.25	1.19E-02	2.60E-04	3.47E-04	2.07E-03	1.10E-04	1.59E-03	8.57E-07	0.0162689	6.10E-03	2.60E-04	3.47E-04	2.07E-03	1.10E-04	2.29E-04	1.59E-03	1.07E-02
4262	494863.09, 3856377.25	9.98E-03	2.31E-04	2.78E-04	1.57E-03	8.04E-05	1.31E-03	6.92E-07	0.01344893	5.14E-03	2.31E-04	2.78E-04	1.57E-03	8.04E-05	1.67E-04	1.31E-03	8.77E-03
4263	495363.09, 3856377.25	8.88E-03	2.13E-04	2.43E-04	1.27E-03	6.41E-05	1.13E-03	5.74E-07	0.01179367	4.58E-03	2.13E-04	2.43E-04	1.27E-03	6.41E-05	1.33E-04	1.13E-03	7.63E-03
4264	495863.09, 3856377.25	8.53E-03	2.09E-04	2.47E-04	1.19E-03	5.99E-05	1.09E-03	5.38E-07	0.0113243	4.41E-03	2.09E-04	2.47E-04	1.19E-03	5.99E-05	1.23E-04	1.09E-03	7.32E-03
4265	496363.09, 3856377.25	8.45E-03	2.09E-04	2.62E-04	1.16E-03	5.86E-05	1.08E-03	5.24E-07	0.01123176	4.37E-03	2.09E-04	2.62E-04	1.16E-03	5.86E-05	1.21E-04	1.08E-03	7.27E-03
4266	496863.09, 3856377.25	8.60E-03	2.13E-04	2.95E-04	1.22E-03	6.15E-05	1.13E-03	5.40E-07	0.01151314	4.44E-03	2.13E-04	2.95E-04	1.22E-03	6.15E-05	1.26E-04	1.13E-03	7.49E-03
4267	497363.09, 3856377.25	8.73E-03	2.18E-04	3.27E-04	1.26E-03	6.39E-05	1.16E-03	5.53E-07	0.01175723	4.51E-03	2.18E-04	3.27E-04	1.26E-03	6.39E-05	1.31E-04	1.16E-03	7.67E-03
4268	497863.09, 3856377.25	9.06E-03	2.26E-04	3.71E-04	1.34E-03	6.87E-05	1.22E-03	5.83E-07	0.01228049	4.68E-03	2.26E-04	3.71E-04	1.34E-03	6.87E-05	1.40E-04	1.22E-03	8.04E-03
4269	498363.09, 3856377.25	9.56E-03	2.36E-04	4.27E-04	1.46E-03	7.55E-05	1.29E-03	6.28E-07	0.01305083	4.94E-03	2.36E-04	4.27E-04	1.46E-03	7.55E-05	1.53E-04	1.29E-03	8.58E-03
4270	471363.09, 3856877.25	2.51E-03	1.07E-04	3.54E-04	3.55E-04	1.84E-05	2.56E-04	7.44E-08	0.00360147	1.35E-03	1.07E-04	3.54E-04	3.55E-04	1.84E-05	3.29E-05	2.56E-04	2.48E-03
4271	471863.09, 3856877.25	2.62E-03	1.09E-04	3.64E-04	3.65E-04	1.91E-05	2.62E-04	7.63E-08	0.0037444	1.41E-03	1.09E-04	3.64E-04	3.65E-04	1.91E-05	3.43E-05	2.62E-04	2.56E-03
4272	472363.09, 3856877.25	2.76E-03	1.12E-04	3.84E-04	3.93E-04	2.05E-05	2.79E-04	8.02E-08	0.00394529	1.48E-03	1.12E-04	3.84E-04	3.93E-04	2.05E-05	3.68E-05	2.79E-04	2.70E-03
4273	472863.09, 3856877.25	2.90E-03	1.16E-04	4.02E-04	4.21E-04	2.19E-05	2.97E-04	8.43E-08	0.00416036	1.55E-03	1.16E-04	4.02E-04	4.21E-04	2.19E-05	3.95E-05	2.97E-04	2.85E-03
4274	473363.09, 3856877.25	3.08E-03	1.22E-04	4.36E-04	4.78E-04	2.43E-05	3.33E-04	9.17E-08	0.00447784	1.65E-03	1.22E-04	4.36E-04	4.78E-04	2.43E-05	4.38E-05	3.33E-04	3.09E-03
4275	473863.09, 3856877.25	3.26E-03	1.27E-04	4.55E-04	5.14E-04	2.60E-05	3.54E-04	9.66E-08	0.0047354	1.74E-03	1.27E-04	4.55E-04	5.14E-04	2.60E-05	4.69E-05	3.54E-04	3.26E-03
4276	474363.09, 3856877.25	3.41E-03	1.27E-04	4.44E-04	5.02E-04	2.63E-05	3.42E-04	9.59E-08	0.00485201	1.81E-03	1.27E-04	4.44E-04	5.02E-04	2.63E-05	4.75E-05	3.42E-04	3.30E-03
4277	474863.09, 3856877.25	3.55E-03	1.24E-04	4.15E-04	4.66E-04	2.56E-05	3.25E-04	9.33E-08	0.00490926	1.88E-03	1.24E-04	4.15E-04	4.66E-04	2.56E-05	4.64E-05	3.25E-04	3.28E-03
4278	475363.09, 3856877.25	3.59E-03	1.18E-04	3.54E-04	3.94E-04	2.27E-05	2.87E-04	8.52E-08	0.00477039	1.89E-03	1.18E-04	3.54E-04	3.94E-04	2.27E-05	4.12E-05	2.87E-04	3.11E-03
4279	475863.09, 3856877.25	3.76E-03	1.19E-04	3.46E-04	3.97E-04	2.31E-05	2.92E-04	8.67E-08	0.00493875	1.97E-03	1.19E-04	3.46E-04	3.97E-04	2.31E-05	4.19E-05	2.92E-04	3.19E-03
4280	476363.09, 3856877.25	3.74E-03	1.14E-04	2.93E-04	3.49E-04	2.04E-05	2.72E-04	7.99E-08	0.00478707	1.96E-03	1.14E-04	2.93E-04	3.49E-04	2.04E-05	3.69E-05	2.72E-04	3.04E-03
4281	476863.09, 3856877.25	3.80E-03	1.15E-04	2.74E-04	3.41E-04	1.98E-05	2.71E-04	7.87E-08	0.0048183	1.99E-03	1.15E-04	2.74E-04	3.41E-04	1.98E-05	3.58E-05	2.71E-04	3.04E-03
4282	477363.09, 3856877.25	3.76E-03	1.13E-04	2.28E-04	3.11E-04	1.76E-05	2.59E-04	7.27E-08	0.00468531	1.97E-03	1.13E-04	2.28E-04	3.11E-04	1.76E-05	3.19E-05	2.59E-04	2.93E-03
4283	477863.09, 3856877.25	3.36E-03	1.06E-04	1.31E-04	2.29E-04	1.19E-05	2.20E-04	5.41E-08	0.00405703	1.77E-03	1.06E-04	1.31E-04	2.29E-04	1.19E-05	2.21E-05	2.20E-04	2.49E-03
4284	478363.09, 3856877.25	3.40E-03	1.06E-04	1.04E-04	2.12E-04	1.06E-05	2.15E-04	4.95E-08	0.00405242	1.79E-03	1.06E-04	1.04E-04	2.12E-04	1.06E-05	2.00E-05	2.15E-04	2.46E-03
4285	478863.09, 3856877.25	3.86E-03	1.16E-04	1.39E-04	2.68E-04	1.39E-05	2.54E-04	6.08E-08	0.00464589	2.02E-03	1.16E-04	1.39E-04	2.68E-04	1.39E-05	2.58E-05	2.54E-04	2.84E-03
4286	479363.09, 3856877.25	4.57E-03	1.29E-04	1.99E-04	3.59E-04	1.93E-05	3.10E-04	7.82E-08	0.0055867	2.38E-03	1.29E-04	1.99E-04	3.59E-04	1.93E-05	3.53E-05	3.10E-04	3.43E-03
4287	479863.09, 3856877.25	7.32E-03	1.69E-04	4.68E-04	8.84E-04	5.53E-05	5.90E-04	1.53E-07	0.00948577	3.76E-03	1.69E-04	4.68E-04	8.84E-04	5.53E-05	9.54E-05	5.90E-04	6.03E-03
4288	480363.09, 3856877.25	8.80E-03	2.02E-04	6.14E-04	1.58E-03	8.95E-05	8.87E-04	2.09E-07	0.01217063	4.53E-03	2.02E-04	6.14E-04	1.58E-03	8.95E-05	1.56E-04	8.87E-04	8.05E-03
4289	480863.09, 3856877.25	9.84E-03	2.37E-04	7.14E-04	2.47E-03	1.18E-04	1.29E-03	2.60E-07	0.01467364	5.08E-03	2.37E-04	7.14E-04	2.47E-03	1.18E-04	2.11E-04	1.29E-03	1.01E-02
4290	481363.09, 3856877.25	1.09E-02	2.66E-04	7.60E-04	3.34E-03	1.43E-04	1.87E-03	3.05E-07	0.01725955	5.63E-03	2.66E-04	7.60E-04	3.34E-03	1.43E-04	2.65E-04	1.87E-03	1.23E-02
4291	481863.09, 3856877.25	1.24E-02	2.90E-04	7.85E-04	4.15E-03	1.67E-04	2.54E-03	3.40E-07	0.02031919	6.41E-03	2.90E-04	7.85E-04	4.15E-03	1.67E-04	3.18E-04	2.54E-03	1.47E-02
4292	482363.09, 3856877.25	1.42E-02	3.25E-04	7.83E-04	5.12E-03	1.86E-04	4.61E-03	3.82E-07	0.02524094	7.36E-03	3.25E-04	7.83E-04	5.12E-03	1.86E-04	3.58E-04	4.61E-03	1.87E-02
4293	482863.09, 3856877.25	1.81E-02	3.59E-04	7.80E-04	6.14E-03	2.19E-04	7.00E-03	4.19E-07	0.03264891	9.34E-03	3.59E-04	7.80E-04	6.14E-03	2.19E-04	4.26E-04	7.00E-03	2.43E-02
4294	483363.09, 3856877.25	2.90E-02	4.04E-04	7.91E-04	7.53E-03	2.63E-04	1.29E-02	4.60E-07	0.05085446	1.47E-02	4.04E-04	7.91E-04	7.53E-03	2.63E-04	5.32E-04	1.29E-02	3.71E-02
4295	483863.09, 3856877.25	1.25E-01	4.72E-04	8.01E-04	9.52E-03	3.23E-04	5.11E-02	5.07E-07	0.18676159	6.13E-02	4.72E-04	8.01E-04	9.52E-03	3.23E-04	6.88E-04	5.11E-02	1.24E-01
4296	484363.09, 3856877.25	1.57E-01	6.03E-04	8.16E-04	1.26E-02	4.02E-04	6.63E-02	5.60E-07	0.23721303	7.72E-02	6.03E-04	8.16E-04	1.26E-02	4.02E-04	9.05E-04	6.63E-02	1.59E-01
4297	484863.09, 3856877.25	1.73E-01	8.86E-04	8.53E-04	1.76E-02	5.13E-04	7.81E-02	6.18E-07	0.27133997	8.60E-02	8.86E-04	8.53E-04	1.76E-02	5.13E-04	1.19E-03	7.81E-02	1.85E-01
4298	485363.09, 3856877.25	1.92E-01	2.70E-03	8.95E-04	3.28E-02	7.25E-04	3.47E-02	7.06E-07	0.2638406	9.93E-02	2.70E-03	8.95E-04	3.28E-02	7.25E-04	1.72E-03	3.47E-02	1.73E-01
4299	485863.09, 3856877.25	2.04E-01	3.58E-03	9.12E-04	1.33E-01	1.21E-03	2.30E-02	8.23E-07	0.36513131	1.07E-01	3.58E-03	9.12E-04	1.33E-01	1.21E-03	2.91E-03	2.30E-02	2.71E-01
4300	486363.09, 3856877.25	2.04E-01	2.16E-03	8.54E-04	8.27E-02	5.49E-03	2.13E-02	8.04E-07	0.31634924	1.02E-01	2.16E-03	8.54E-04	8.27E-02	5.49E-03	1.00E-02	2.13E-02	2.24E-01
4301	486863.09, 3856877.25	1.89E-01	6.05E-03	8.93E-04	4.90E-02	8.13E-03	5.03E-02	9.17E-07	0.30333602	9.38E-02	6.05E-03	8.93E-04	4.90E-02	8.13E-03	3.76E-02	5.03E-02	2.46E-01
4302	487363.09, 3856877.25	1.31E-01	2.11E-03	9.17E-04	3.69E-02	3.26E-03	1.91E-02	1.14E-06	0.19370539	6.55E-02	2.11E-03	9.17E-04	3.69E-02	3.26E-03	1.01E-02	1.91E-02	1.38E-01
4303	487863.09, 3856877.25	9.90E-02	1.45E-03	9.30E-04	2.94E-02	1.98E-03	1.34E-02	1.24E-06	0.14605487	4.95E-02	1.45E-03	9.30E-04	2.94E-02	1.98E-03	5.55E-03	1.34E-02	1.02E-01
4304	488363.09, 3856877.25	6.11E-02	1.16E-03	9.22E-04	2.42E-02	1.45E-03	1.06E-02	1.38E-06	0.09946693	3.09E-02	1.16E-03	9.22E-04	2.42E-02	1.45E-03	3.66E-03	1.06E-02	7.30E-02
4305	488863.09, 3856877.25	4.90E-02	9.87E-04	9.08E-04	2.03E-02	1.14E-03	8.99E-03	1.54E-06	0.08133689	2.49E-02	9.87E-04	9.08E-04	2.03E-02	1.14E-03	2.70E-03	8.99E-03	6.00E-02
4306	489363.09, 3856877.25	4.19E-02	8.71E-04	9.07E-04	1.74E-02	9.34E-04	8.09E-03	1.71E-06	0.07015913	2.14E-02	8.71E-04	9.07E-04	1.74E-02	9.34E-04	2.11E-03	8.09E-03	5.17E-02
4307	489863.09, 3856877.25	3.73E-02	7.81E-04	9.00E-04	1.50E-02	7.84E-04	7.36E-03	1.95E-06	0.06213304	1.90E-02	7.81E-04	9.00E-04	1.50E-02	7.84E-04	1.72E-03	7.36E-03	4.56E-02
4308	490363.09, 3856877.25	3.40E-02	7.05E-04	8.81E-04	1.31E-02	6.69E-04	6.69E-03	2.36E-06	0.05602746	1.74E-02	7.05E-04	8.81E-04	1.31E-02	6.69E-04	1.44E-03	6.69E-03	4.08E-02
4309	490863.09, 3856877.25	3.14E-02	6.43E-04	8.68E-04	1.14E-02	5.79E-04	6.12E-03	3.20E-06	0.05103725	1.60E-02	6.43E-04	8.68E-04	1.14E-02	5.79E-04	1.23E-03	6.12E-03	3.69E-02
4310	491363.09, 3856877.25	2.93E-02	5.90E-04	8.41E-04	1.00E-02	5.07E-04	5.60E-03	5.31E-06	0.04682525	1.49E-02	5.90E-04	8.41E-04	1.00E-02	5.07E-04	1.06E-03	5.60E-03	3.36E-02

4311	491863.09, 3856877.25	2.84E-02	5.44E-04	8.13E-04	8.80E-03	4.47E-04	5.11E-03	2.28E-05	0.04412318	1.45E-02	5.44E-04	8.13E-04	8.80E-03	4.47E-04	9.27E-04	5.11E-03	3.11E-02
4312	492363.09, 3856877.25	2.62E-02	4.66E-04	7.20E-04	6.89E-03	3.69E-04	4.21E-03	2.41E-05	0.03885672	1.33E-02	4.66E-04	7.20E-04	6.89E-03	3.69E-04	7.61E-04	4.21E-03	2.67E-02
4313	492863.09, 3856877.25	2.30E-02	4.06E-04	6.40E-04	5.29E-03	2.90E-04	3.46E-03	6.18E-06	0.03308524	1.17E-02	4.06E-04	6.40E-04	5.29E-03	2.90E-04	5.91E-04	3.46E-03	2.23E-02
4314	493363.09, 3856877.25	1.89E-02	3.48E-04	5.36E-04	3.81E-03	2.07E-04	2.69E-03	3.05E-06	0.02649444	9.61E-03	3.48E-04	5.36E-04	3.81E-03	2.07E-04	4.17E-04	2.69E-03	1.76E-02
4315	493863.09, 3856877.25	1.42E-02	2.93E-04	4.12E-04	2.60E-03	1.37E-04	2.04E-03	1.84E-06	0.01972836	7.28E-03	2.93E-04	4.12E-04	2.60E-03	1.37E-04	2.76E-04	2.04E-03	1.30E-02
4316	494363.09, 3856877.25	1.13E-02	2.56E-04	3.22E-04	1.87E-03	9.53E-05	1.63E-03	1.27E-06	0.01548939	5.82E-03	2.56E-04	3.22E-04	1.87E-03	9.53E-05	1.91E-04	1.63E-03	1.02E-02
4317	494863.09, 3856877.25	1.01E-02	2.38E-04	2.93E-04	1.56E-03	7.81E-05	1.43E-03	1.00E-06	0.01370617	5.21E-03	2.38E-04	2.93E-04	1.56E-03	7.81E-05	1.56E-04	1.43E-03	8.96E-03
4318	495363.09, 3856877.25	9.42E-03	2.27E-04	2.84E-04	1.37E-03	6.87E-05	1.31E-03	8.45E-07	0.0126821	4.86E-03	2.27E-04	2.84E-04	1.37E-03	6.87E-05	1.37E-04	1.31E-03	8.26E-03
4319	495863.09, 3856877.25	9.12E-03	2.24E-04	2.95E-04	1.31E-03	6.55E-05	1.27E-03	7.74E-07	0.01227875	4.71E-03	2.24E-04	2.95E-04	1.31E-03	6.55E-05	1.31E-04	1.27E-03	8.00E-03
4320	496363.09, 3856877.25	8.93E-03	2.23E-04	3.09E-04	1.27E-03	6.36E-05	1.24E-03	7.23E-07	0.01203741	4.62E-03	2.23E-04	3.09E-04	1.27E-03	6.36E-05	1.27E-04	1.24E-03	7.85E-03
4321	496863.09, 3856877.25	8.92E-03	2.25E-04	3.33E-04	1.28E-03	6.42E-05	1.24E-03	7.01E-07	0.01206382	4.62E-03	2.25E-04	3.33E-04	1.28E-03	6.42E-05	1.27E-04	1.24E-03	7.89E-03
4322	497363.09, 3856877.25	9.09E-03	2.31E-04	3.69E-04	1.33E-03	6.71E-05	1.27E-03	7.03E-07	0.01235407	4.71E-03	2.31E-04	3.69E-04	1.33E-03	6.71E-05	1.33E-04	1.27E-03	8.10E-03
4323	497863.09, 3856877.25	9.72E-03	2.42E-04	4.32E-04	1.47E-03	7.52E-05	1.36E-03	7.52E-07	0.01330251	5.03E-03	2.42E-04	4.32E-04	1.47E-03	7.52E-05	1.48E-04	1.36E-03	8.75E-03
4324	498363.09, 3856877.25	1.05E-02	2.56E-04	5.06E-04	1.64E-03	8.51E-05	1.48E-03	8.27E-07	0.01444961	5.41E-03	2.56E-04	5.06E-04	1.64E-03	8.51E-05	1.68E-04	1.48E-03	9.55E-03
4325	471363.09, 3857377.25	2.50E-03	1.05E-04	3.46E-04	3.69E-04	1.87E-05	2.62E-04	7.81E-08	0.00360498	1.35E-03	1.05E-04	3.46E-04	3.69E-04	1.87E-05	3.37E-05	2.62E-04	2.48E-03
4326	471863.09, 3857377.25	2.60E-03	1.07E-04	3.54E-04	3.78E-04	1.94E-05	2.67E-04	7.96E-08	0.00372994	1.40E-03	1.07E-04	3.54E-04	3.78E-04	1.94E-05	3.49E-05	2.67E-04	2.56E-03
4327	472363.09, 3857377.25	2.73E-03	1.09E-04	3.68E-04	4.01E-04	2.05E-05	2.82E-04	8.32E-08	0.00391442	1.46E-03	1.09E-04	3.68E-04	4.01E-04	2.05E-05	3.70E-05	2.82E-04	2.68E-03
4328	472863.09, 3857377.25	2.87E-03	1.12E-04	3.85E-04	4.32E-04	2.20E-05	3.02E-04	8.76E-08	0.00411916	1.53E-03	1.12E-04	3.85E-04	4.32E-04	2.20E-05	3.96E-05	3.02E-04	2.82E-03
4329	473363.09, 3857377.25	3.03E-03	1.17E-04	4.07E-04	4.76E-04	2.39E-05	3.29E-04	9.34E-08	0.00438068	1.61E-03	1.17E-04	4.07E-04	4.76E-04	2.39E-05	4.30E-05	3.29E-04	3.01E-03
4330	473863.09, 3857377.25	3.21E-03	1.22E-04	4.34E-04	5.33E-04	2.62E-05	3.66E-04	1.01E-07	0.00468903	1.71E-03	1.22E-04	4.34E-04	5.33E-04	2.62E-05	4.70E-05	3.66E-04	3.24E-03
4331	474363.09, 3857377.25	3.34E-03	1.19E-04	4.14E-04	5.01E-04	2.59E-05	3.40E-04	9.71E-08	0.00473568	1.77E-03	1.19E-04	4.14E-04	5.01E-04	2.59E-05	4.65E-05	3.40E-04	3.21E-03
4332	474863.09, 3857377.25	3.32E-03	1.09E-04	3.29E-04	3.71E-04	2.12E-05	2.69E-04	8.20E-08	0.00442419	1.75E-03	1.09E-04	3.29E-04	3.71E-04	2.12E-05	3.80E-05	2.69E-04	2.89E-03
4333	475363.09, 3857377.25	3.01E-03	9.79E-05	2.20E-04	2.59E-04	1.50E-05	2.11E-04	6.42E-08	0.00381683	1.59E-03	9.79E-05	2.20E-04	2.59E-04	1.50E-05	2.68E-05	2.11E-04	2.41E-03
4334	475863.09, 3857377.25	3.00E-03	9.71E-05	1.95E-04	2.45E-04	1.40E-05	2.07E-04	6.12E-08	0.00375815	1.58E-03	9.71E-05	1.95E-04	2.45E-04	1.40E-05	2.50E-05	2.07E-04	2.36E-03
4335	476363.09, 3857377.25	3.52E-03	1.06E-04	2.58E-04	3.19E-04	1.89E-05	2.52E-04	7.51E-08	0.00447075	1.84E-03	1.06E-04	2.58E-04	3.19E-04	1.89E-05	3.34E-05	2.52E-04	2.83E-03
4336	476863.09, 3857377.25	3.73E-03	1.10E-04	2.69E-04	3.49E-04	2.06E-05	2.69E-04	7.87E-08	0.00475026	1.95E-03	1.10E-04	2.69E-04	3.49E-04	2.06E-05	3.57E-05	2.69E-04	3.00E-03
4337	477363.09, 3857377.25	3.68E-03	1.09E-04	2.26E-04	3.08E-04	1.79E-05	2.53E-04	7.29E-08	0.00459233	1.92E-03	1.09E-04	2.26E-04	3.08E-04	1.79E-05	3.17E-05	2.53E-04	2.87E-03
4338	477863.09, 3857377.25	3.34E-03	1.05E-04	1.53E-04	2.42E-04	1.32E-05	2.23E-04	5.93E-08	0.00407977	1.76E-03	1.05E-04	1.53E-04	2.42E-04	1.32E-05	2.39E-05	2.23E-04	2.52E-03
4339	478363.09, 3857377.25	3.19E-03	1.01E-04	1.01E-04	1.97E-04	9.93E-06	2.03E-04	4.89E-08	0.00379891	1.68E-03	1.01E-04	1.01E-04	1.97E-04	9.93E-06	1.83E-05	2.03E-04	2.31E-03
4340	478863.09, 3857377.25	3.17E-03	9.96E-05	7.85E-05	1.76E-04	8.51E-06	1.95E-04	4.42E-08	0.00372863	1.67E-03	9.96E-05	7.85E-05	1.76E-04	8.51E-06	1.58E-05	1.95E-04	2.24E-03
4341	479363.09, 3857377.25	3.90E-03	1.16E-04	1.43E-04	2.72E-04	1.44E-05	2.60E-04	6.36E-08	0.00470357	2.04E-03	1.16E-04	1.43E-04	2.72E-04	1.44E-05	2.59E-05	2.60E-04	2.87E-03
4342	479863.09, 3857377.25	6.62E-03	1.52E-04	3.89E-04	7.10E-04	4.55E-05	5.05E-04	1.32E-07	0.00841956	3.40E-03	1.52E-04	3.89E-04	7.10E-04	4.55E-05	7.76E-05	5.05E-04	5.28E-03
4343	480363.09, 3857377.25	6.37E-03	1.48E-04	3.19E-04	5.98E-04	3.66E-05	4.57E-04	1.18E-07	0.00792735	3.28E-03	1.48E-04	3.19E-04	5.98E-04	3.66E-05	6.36E-05	4.57E-04	4.90E-03
4344	480863.09, 3857377.25	9.10E-03	2.22E-04	6.53E-04	2.31E-03	1.09E-04	1.29E-03	2.56E-07	0.01369112	4.70E-03	2.22E-04	6.53E-04	2.31E-03	1.09E-04	2.09E-04	1.29E-03	9.50E-03
4345	481363.09, 3857377.25	1.02E-02	2.32E-04	6.52E-04	2.62E-03	1.24E-04	1.44E-03	2.78E-07	0.01527213	5.25E-03	2.32E-04	6.52E-04	2.62E-03	1.24E-04	2.38E-04	1.44E-03	1.06E-02
4346	481863.09, 3857377.25	1.11E-02	2.58E-04	6.91E-04	3.45E-03	1.49E-04	2.05E-03	3.28E-07	0.01774447	5.75E-03	2.58E-04	6.91E-04	3.45E-03	1.49E-04	2.87E-04	2.05E-03	1.26E-02
4347	482363.09, 3857377.25	1.19E-02	2.93E-04	7.24E-04	4.42E-03	1.69E-04	3.73E-03	3.86E-07	0.02124496	6.19E-03	2.93E-04	7.24E-04	4.42E-03	1.69E-04	3.28E-04	3.73E-03	1.59E-02
4348	482863.09, 3857377.25	1.36E-02	3.18E-04	7.32E-04	5.11E-03	1.90E-04	5.30E-03	4.32E-07	0.02526156	7.06E-03	3.18E-04	7.32E-04	5.11E-03	1.90E-04	3.75E-04	5.30E-03	1.91E-02
4349	483363.09, 3857377.25	1.60E-02	3.48E-04	7.48E-04	6.03E-03	2.20E-04	7.40E-03	4.86E-07	0.03077024	8.29E-03	3.48E-04	7.48E-04	6.03E-03	2.20E-04	4.50E-04	7.40E-03	2.35E-02
4350	483863.09, 3857377.25	1.93E-02	3.94E-04	7.65E-04	7.30E-03	2.61E-04	1.09E-02	5.50E-07	0.03891121	9.96E-03	3.94E-04	7.65E-04	7.30E-03	2.61E-04	5.49E-04	1.09E-02	3.01E-02
4351	484363.09, 3857377.25	2.49E-02	4.60E-04	7.71E-04	8.99E-03	3.09E-04	1.72E-02	6.26E-07	0.05264663	1.28E-02	4.60E-04	7.71E-04	8.99E-03	3.09E-04	6.70E-04	1.72E-02	4.12E-02
4352	484863.09, 3857377.25	3.37E-02	5.76E-04	7.90E-04	1.16E-02	3.76E-04	3.03E-02	7.19E-07	0.07734255	1.73E-02	5.76E-04	7.90E-04	1.16E-02	3.76E-04	8.17E-04	3.03E-02	6.18E-02
4353	485363.09, 3857377.25	5.93E-02	7.92E-04	8.23E-04	1.59E-02	4.72E-04	7.28E-02	8.29E-07	0.15002753	3.02E-02	7.92E-04	8.23E-04	1.59E-02	4.72E-04	1.02E-03	7.28E-02	1.22E-01
4354	485863.09, 3857377.25	1.54E-01	1.61E-03	8.74E-04	2.58E-02	6.32E-04	4.29E-02	9.61E-07	0.22534316	7.79E-02	1.61E-03	8.74E-04	2.58E-02	6.32E-04	1.31E-03	4.29E-02	1.51E-01
4355	486363.09, 3857377.25	1.97E-01	5.17E-03	9.31E-04	1.18E-01	1.04E-03	2.07E-02	1.15E-06	0.34271532	1.07E-01	5.17E-03	9.31E-04	1.18E-01	1.04E-03	1.96E-03	2.07E-02	2.55E-01
4356	486863.09, 3857377.25	1.95E-01	2.34E-03	8.98E-04	1.26E-01	3.37E-03	1.41E-02	1.29E-06	0.34176634	9.83E-02	2.34E-03	8.98E-04	1.26E-01	3.37E-03	2.99E-03	1.41E-02	2.48E-01
4357	487363.09, 3857377.25	1.92E-01	7.24E-03	9.58E-04	6.04E-02	6.30E-03	1.30E-02	1.60E-06	0.27949138	9.55E-02	7.24E-03	9.58E-04	6.04E-02	6.30E-03	3.11E-03	1.30E-02	1.87E-01
4358	487863.09, 3857377.25	1.37E-01	2.30E-03	1.02E-03	4.07E-02	2.46E-03	1.19E-02	2.05E-06	0.19580837	6.87E-02	2.30E-03	1.02E-03	4.07E-02	2.46E-03	2.65E-03	1.19E-02	1.30E-01
4359	488363.09, 3857377.25	8.36E-02	1.56E-03	1.04E-03	3.04E-02	1.61E-03	1.07E-02	2.25E-06	0.12891232	4.23E-02	1.56E-03	1.04E-03	3.04E-02	1.61E-03	2.18E-03	1.07E-02	8.97E-02
4360	488863.09, 3857377.25	5.81E-02	1.24E-03	1.04E-03	2.41E-02	1.19E-03	1.04E-02	2.61E-06	0.09604501	2.96E-02	1.24E-03	1.04E-03	2.41E-02	1.19E-03	1.82E-03	1.04E-02	6.94E-02
4361	489363.09, 3857377.25	4.76E-02	1.05E-03	9.86E-04	1.97E-02	9.37E-04	1.00E-02	2.98E-06	0.08033236	2.44E-02	1.05E-03	9.86E-04	1.97E-02	9.37E-04	1.54E-03	1.00E-02	5.86E-02
4362	489863.09, 3857377.25	4.17E-02	9.09E-04	9.43E-04	1.65E-02	7.72E-04	8.98E-03	3.50E-06	0.06979751	2.14E-02	9.09E-04	9.43E-04	1.65E-02	7.72E-04	1.34E-03	8.98E-03	5.08E-02
4363	490363.09, 3857377.25	3.78E-02	8.08E-04	9.20E-04	1.39E-02	6.51E-04	8.01E-03	4.28E-06	0.0620965	1.93E-02	8.08E-04	9.20E-04	1.39E-02	6.51E-04	1.16E-03	8.01E-03	4.48E-02
4364	490863.09, 3857377.25	3.46E-02	7.28E-04	9.15E-04	1.20E-02	5.59E-04	7.26E-03	6.08E-06	0.05599505	1.77E-02	7.28E-04	9.15E-04	1.20E-02	5.59E-04	1.02E-03	7.26E-03	4.01E-02

4365	491363.09, 3857377.25	3.21E-02	6.63E-04	9.22E-04	1.04E-02	4.87E-04	6.64E-03	1.46E-05	0.05119941	1.64E-02	6.63E-04	9.22E-04	1.04E-02	4.87E-04	9.05E-04	6.64E-03	3.64E-02
4366	491863.09, 3857377.25	3.02E-02	5.90E-04	8.90E-04	8.84E-03	4.26E-04	5.87E-03	2.85E-05	0.04682993	1.54E-02	5.90E-04	8.90E-04	8.84E-03	4.26E-04	8.02E-04	5.87E-03	3.28E-02
4367	492363.09, 3857377.25	2.72E-02	4.75E-04	7.58E-04	6.42E-03	3.32E-04	4.53E-03	8.67E-06	0.03974203	1.38E-02	4.75E-04	7.58E-04	6.42E-03	3.32E-04	6.40E-04	4.53E-03	2.70E-02
4368	492863.09, 3857377.25	2.22E-02	3.88E-04	6.32E-04	4.38E-03	2.30E-04	3.34E-03	4.53E-06	0.03120838	1.13E-02	3.88E-04	6.32E-04	4.38E-03	2.30E-04	4.42E-04	3.34E-03	2.07E-02
4369	493363.09, 3857377.25	1.65E-02	3.26E-04	4.92E-04	2.99E-03	1.54E-04	2.49E-03	2.82E-06	0.02299181	8.45E-03	3.26E-04	4.92E-04	2.99E-03	1.54E-04	2.95E-04	2.49E-03	1.52E-02
4370	493863.09, 3857377.25	1.42E-02	3.00E-04	4.45E-04	2.44E-03	1.24E-04	2.14E-03	2.13E-06	0.01963401	7.27E-03	3.00E-04	4.45E-04	2.44E-03	1.24E-04	2.38E-04	2.14E-03	1.30E-02
4371	494363.09, 3857377.25	1.22E-02	2.75E-04	3.98E-04	1.97E-03	9.85E-05	1.82E-03	1.62E-06	0.01671835	6.25E-03	2.75E-04	3.98E-04	1.97E-03	9.85E-05	1.88E-04	1.82E-03	1.10E-02
4372	494863.09, 3857377.25	1.11E-02	2.63E-04	3.86E-04	1.73E-03	8.65E-05	1.66E-03	1.34E-06	0.01523568	5.73E-03	2.63E-04	3.86E-04	1.73E-03	8.65E-05	1.65E-04	1.66E-03	1.00E-02
4373	495363.09, 3857377.25	1.03E-02	2.53E-04	3.78E-04	1.55E-03	7.73E-05	1.53E-03	1.13E-06	0.01412352	5.34E-03	2.53E-04	3.78E-04	1.55E-03	7.73E-05	1.48E-04	1.53E-03	9.28E-03
4374	495863.09, 3857377.25	9.98E-03	2.49E-04	3.89E-04	1.48E-03	7.39E-05	1.47E-03	1.02E-06	0.01364129	5.16E-03	2.49E-04	3.89E-04	1.48E-03	7.39E-05	1.42E-04	1.47E-03	8.97E-03
4375	496363.09, 3857377.25	9.75E-03	2.47E-04	4.03E-04	1.44E-03	7.19E-05	1.42E-03	9.32E-07	0.0133302	5.05E-03	2.47E-04	4.03E-04	1.44E-03	7.19E-05	1.38E-04	1.42E-03	8.77E-03
4376	496863.09, 3857377.25	9.61E-03	2.46E-04	4.20E-04	1.42E-03	7.12E-05	1.40E-03	8.74E-07	0.01316801	4.98E-03	2.46E-04	4.20E-04	1.42E-03	7.12E-05	1.37E-04	1.40E-03	8.67E-03
4377	497363.09, 3857377.25	9.83E-03	2.50E-04	4.54E-04	1.46E-03	7.40E-05	1.42E-03	8.62E-07	0.01349292	5.09E-03	2.50E-04	4.54E-04	1.46E-03	7.40E-05	1.43E-04	1.42E-03	8.90E-03
4378	497863.09, 3857377.25	1.03E-02	2.58E-04	5.05E-04	1.56E-03	7.99E-05	1.48E-03	8.87E-07	0.01416885	5.32E-03	2.58E-04	5.05E-04	1.56E-03	7.99E-05	1.54E-04	1.48E-03	9.36E-03
4379	498363.09, 3857377.25	1.15E-02	2.83E-04	6.18E-04	1.87E-03	9.66E-05	1.70E-03	1.05E-06	0.01611612	5.96E-03	2.83E-04	6.18E-04	1.87E-03	9.66E-05	1.87E-04	1.70E-03	1.07E-02
4380	471363.09, 3857877.25	2.50E-03	1.01E-04	3.32E-04	3.72E-04	1.87E-05	2.70E-04	8.13E-08	0.00358922	1.34E-03	1.01E-04	3.32E-04	3.72E-04	1.87E-05	3.50E-05	2.70E-04	2.47E-03
4381	471863.09, 3857877.25	2.60E-03	1.03E-04	3.41E-04	3.87E-04	1.96E-05	2.77E-04	8.35E-08	0.00372317	1.39E-03	1.03E-04	3.41E-04	3.87E-04	1.96E-05	3.64E-05	2.77E-04	2.55E-03
4382	472363.09, 3857877.25	2.71E-03	1.05E-04	3.54E-04	4.11E-04	2.08E-05	2.91E-04	8.72E-08	0.00389431	1.45E-03	1.05E-04	3.54E-04	4.11E-04	2.08E-05	3.85E-05	2.91E-04	2.67E-03
4383	472863.09, 3857877.25	2.85E-03	1.10E-04	3.74E-04	4.54E-04	2.26E-05	3.17E-04	9.34E-08	0.00412454	1.52E-03	1.10E-04	3.74E-04	4.54E-04	2.26E-05	4.16E-05	3.17E-04	2.84E-03
4384	473363.09, 3857877.25	2.99E-03	1.12E-04	3.87E-04	4.85E-04	2.41E-05	3.35E-04	9.77E-08	0.00433384	1.59E-03	1.12E-04	3.87E-04	4.85E-04	2.41E-05	4.41E-05	3.35E-04	2.98E-03
4385	473863.09, 3857877.25	3.15E-03	1.17E-04	4.06E-04	5.33E-04	2.63E-05	3.65E-04	1.04E-07	0.00460194	1.68E-03	1.17E-04	4.06E-04	5.33E-04	2.63E-05	4.76E-05	3.65E-04	3.17E-03
4386	474363.09, 3857877.25	3.27E-03	1.13E-04	3.79E-04	4.84E-04	2.57E-05	3.31E-04	9.85E-08	0.00459797	1.73E-03	1.13E-04	3.79E-04	4.84E-04	2.57E-05	4.64E-05	3.31E-04	3.10E-03
4387	474863.09, 3857877.25	3.17E-03	1.02E-04	2.93E-04	3.43E-04	2.03E-05	2.52E-04	8.00E-08	0.00418107	1.67E-03	1.02E-04	2.93E-04	3.43E-04	2.03E-05	3.62E-05	2.52E-04	2.71E-03
4388	475363.09, 3857877.25	2.57E-03	8.59E-05	1.54E-04	1.97E-04	1.12E-05	1.75E-04	5.27E-08	0.00319763	1.36E-03	8.59E-05	1.54E-04	1.97E-04	1.12E-05	2.01E-05	1.75E-04	2.00E-03
4389	475863.09, 3857877.25	2.02E-03	7.18E-05	5.37E-05	1.02E-04	4.98E-06	1.19E-04	2.88E-08	0.00237152	1.07E-03	7.18E-05	5.37E-05	1.02E-04	4.98E-06	9.36E-06	1.19E-04	1.43E-03
4390	476363.09, 3857877.25	2.90E-03	9.09E-05	1.70E-04	2.27E-04	1.30E-05	1.98E-04	5.92E-08	0.00360239	1.52E-03	9.09E-05	1.70E-04	2.27E-04	1.30E-05	2.32E-05	1.98E-04	2.25E-03
4391	476863.09, 3857877.25	3.33E-03	9.87E-05	2.11E-04	2.86E-04	1.67E-05	2.32E-04	7.01E-08	0.00417829	1.74E-03	9.87E-05	2.11E-04	2.86E-04	1.67E-05	2.95E-05	2.32E-04	2.62E-03
4392	477363.09, 3857877.25	3.44E-03	1.01E-04	2.02E-04	2.81E-04	1.63E-05	2.37E-04	7.04E-08	0.00427349	1.80E-03	1.01E-04	2.02E-04	2.81E-04	1.63E-05	2.93E-05	2.37E-04	2.66E-03
4393	477863.09, 3857877.25	3.47E-03	1.02E-04	1.86E-04	2.77E-04	1.58E-05	2.39E-04	6.90E-08	0.0042892	1.81E-03	1.02E-04	1.86E-04	2.77E-04	1.58E-05	2.80E-05	2.39E-04	2.66E-03
4394	478363.09, 3857877.25	2.83E-03	9.25E-05	8.36E-05	1.65E-04	8.38E-06	1.82E-04	4.41E-08	0.00336299	1.49E-03	9.25E-05	8.36E-05	1.65E-04	8.38E-06	1.50E-05	1.82E-04	2.04E-03
4395	478863.09, 3857877.25	2.80E-03	9.09E-05	6.30E-05	1.40E-04	6.84E-06	1.69E-04	3.83E-08	0.00327022	1.48E-03	9.09E-05	6.30E-05	1.40E-04	6.84E-06	1.23E-05	1.69E-04	1.96E-03
4396	479363.09, 3857877.25	5.78E-03	1.40E-04	3.58E-04	6.42E-04	4.08E-05	4.57E-04	1.29E-07	0.00741771	2.98E-03	1.40E-04	3.58E-04	6.42E-04	4.08E-05	7.29E-05	4.57E-04	4.69E-03
4397	479863.09, 3857877.25	7.02E-03	1.76E-04	5.34E-04	1.40E-03	7.34E-05	8.39E-04	2.02E-07	0.01004602	3.63E-03	1.76E-04	5.34E-04	1.40E-03	7.34E-05	1.43E-04	8.39E-04	6.80E-03
4398	480363.09, 3857877.25	7.53E-03	1.96E-04	5.86E-04	1.86E-03	8.83E-05	1.12E-03	2.40E-07	0.01137325	3.90E-03	1.96E-04	5.86E-04	1.86E-03	8.83E-05	1.72E-04	1.12E-03	7.92E-03
4399	480863.09, 3857877.25	8.21E-03	2.07E-04	5.97E-04	2.14E-03	9.98E-05	1.29E-03	2.63E-07	0.01253371	4.25E-03	2.07E-04	5.97E-04	2.14E-03	9.98E-05	1.93E-04	1.29E-03	8.77E-03
4400	481363.09, 3857877.25	8.97E-03	2.17E-04	6.16E-04	2.48E-03	1.13E-04	1.49E-03	2.90E-07	0.01388868	4.63E-03	2.17E-04	6.16E-04	2.48E-03	1.13E-04	2.21E-04	1.49E-03	9.77E-03
4401	481863.09, 3857877.25	9.68E-03	2.34E-04	6.36E-04	2.97E-03	1.32E-04	1.84E-03	3.29E-07	0.01550116	5.00E-03	2.34E-04	6.36E-04	2.97E-03	1.32E-04	2.55E-04	1.84E-03	1.11E-02
4402	482363.09, 3857877.25	1.02E-02	2.63E-04	6.72E-04	3.73E-03	1.53E-04	2.79E-03	3.84E-07	0.01783398	5.31E-03	2.63E-04	6.72E-04	3.73E-03	1.53E-04	2.97E-04	2.79E-03	1.32E-02
4403	482863.09, 3857877.25	1.08E-02	2.86E-04	6.88E-04	4.27E-03	1.64E-04	4.22E-03	4.37E-07	0.02039088	5.62E-03	2.86E-04	6.88E-04	4.27E-03	1.64E-04	3.23E-04	4.22E-03	1.56E-02
4404	483363.09, 3857877.25	1.17E-02	3.08E-04	7.11E-04	4.90E-03	1.85E-04	5.14E-03	4.92E-07	0.02297891	6.13E-03	3.08E-04	7.11E-04	4.90E-03	1.85E-04	3.77E-04	5.14E-03	1.77E-02
4405	483863.09, 3857877.25	1.29E-02	3.40E-04	7.40E-04	5.72E-03	2.13E-04	6.26E-03	5.61E-07	0.0261894	6.75E-03	3.40E-04	7.40E-04	5.72E-03	2.13E-04	4.39E-04	6.26E-03	2.05E-02
4406	484363.09, 3857877.25	1.52E-02	3.80E-04	7.63E-04	6.76E-03	2.45E-04	7.55E-03	6.47E-07	0.03093418	7.95E-03	3.80E-04	7.63E-04	6.76E-03	2.45E-04	5.10E-04	7.55E-03	2.42E-02
4407	484863.09, 3857877.25	1.90E-02	4.48E-04	7.94E-04	8.19E-03	2.86E-04	9.40E-03	7.59E-07	0.03813336	9.91E-03	4.48E-04	7.94E-04	8.19E-03	2.86E-04	5.84E-04	9.40E-03	2.96E-02
4408	485363.09, 3857877.25	2.55E-02	5.47E-04	8.31E-04	1.02E-02	3.39E-04	1.20E-02	9.05E-07	0.04949275	1.32E-02	5.47E-04	8.31E-04	1.02E-02	3.39E-04	6.57E-04	1.20E-02	3.79E-02
4409	485863.09, 3857877.25	5.87E-02	7.19E-04	8.66E-04	1.35E-02	4.15E-04	1.79E-02	1.11E-06	0.09214798	2.97E-02	7.19E-04	8.66E-04	1.35E-02	4.15E-04	7.37E-04	1.79E-02	6.39E-02
4410	486363.09, 3857877.25	1.50E-01	1.18E-03	9.16E-04	2.01E-02	5.34E-04	5.83E-02	1.41E-06	0.23091389	7.51E-02	1.18E-03	9.16E-04	2.01E-02	5.34E-04	8.13E-04	5.83E-02	1.57E-01
4411	486863.09, 3857877.25	2.04E-01	7.49E-03	1.02E-03	4.48E-02	7.69E-04	2.25E-02	1.89E-06	0.28027094	1.16E-01	7.49E-03	1.02E-03	4.48E-02	7.69E-04	8.36E-04	2.25E-02	1.94E-01
4412	487363.09, 3857877.25	1.96E-01	3.83E-03	1.14E-03	1.35E-01	1.75E-03	1.63E-02	2.80E-06	0.3543117	1.03E-01	3.83E-03	1.14E-03	1.35E-01	1.75E-03	9.66E-04	1.63E-02	2.62E-01
4413	487863.09, 3857877.25	1.89E-01	8.92E-03	1.21E-03	5.98E-02	2.87E-03	1.43E-02	4.63E-06	0.27659971	9.57E-02	8.92E-03	1.21E-03	5.98E-02	2.87E-03	1.02E-03	1.43E-02	1.84E-01
4414	488363.09, 3857877.25	9.88E-02	2.61E-03	1.33E-03	3.66E-02	1.45E-03	2.90E-02	6.44E-06	0.16978197	5.05E-02	2.61E-03	1.33E-03	3.66E-02	1.45E-03	1.22E-03	2.90E-02	1.23E-01
4415	488863.09, 3857877.25	7.04E-02	1.75E-03	1.38E-03	2.64E-02	1.03E-03	1.82E-02	8.60E-06	0.11922727	3.62E-02	1.75E-03	1.38E-03	2.64E-02	1.03E-03	1.09E-03	1.82E-02	8.61E-02
4416	489363.09, 3857877.25	6.95E-02	1.35E-03	1.27E-03	2.05E-02	8.26E-04	1.31E-02	8.70E-06	0.10658678	3.54E-02	1.35E-03	1.27E-03	2.05E-02	8.26E-04	1.01E-03	1.31E-02	7.35E-02
4417	489863.09, 3857877.25	6.85E-02	1.11E-03	1.17E-03	1.64E-02	6.87E-04	1.08E-02	8.88E-06	0.09869205	3.46E-02	1.11E-03	1.17E-03	1.64E-02	6.87E-04	9.27E-04	1.08E-02	6.58E-02
4418	490363.09, 3857877.25	4.81E-02	9.59E-04	1.15E-03	1.36E-02	5.85E-04	9.47E-03	1.02E-05	0.07388223	2.46E-02	9.59E-04	1.15E-03	1.36E-02	5.85E-04	8.48E-04	9.47E-03	5.12E-02

4419	490863.09, 3857877.25	3.87E-02	8.51E-04	1.19E-03	1.15E-02	5.04E-04	8.47E-03	1.39E-05	0.06123017	1.99E-02	8.51E-04	1.19E-03	1.15E-02	5.04E-04	7.78E-04	8.47E-03	4.32E-02
4420	491363.09, 3857877.25	3.65E-02	7.34E-04	1.13E-03	9.65E-03	4.36E-04	7.25E-03	7.14E-05	0.05573394	1.86E-02	7.34E-04	1.13E-03	9.65E-03	4.36E-04	7.13E-04	7.25E-03	3.86E-02
4421	491863.09, 3857877.25	3.19E-02	6.22E-04	1.03E-03	7.84E-03	3.71E-04	6.00E-03	1.73E-05	0.04783525	1.63E-02	6.22E-04	1.03E-03	7.84E-03	3.71E-04	6.38E-04	6.00E-03	3.28E-02
4422	492363.09, 3857877.25	2.76E-02	4.88E-04	8.48E-04	5.31E-03	2.69E-04	4.35E-03	7.12E-06	0.03884297	1.40E-02	4.88E-04	8.48E-04	5.31E-03	2.69E-04	4.80E-04	4.35E-03	2.58E-02
4423	492863.09, 3857877.25	2.09E-02	3.96E-04	6.96E-04	3.56E-03	1.80E-04	3.15E-03	4.07E-06	0.02885516	1.06E-02	3.96E-04	6.96E-04	3.56E-03	1.80E-04	3.21E-04	3.15E-03	1.89E-02
4424	493363.09, 3857877.25	1.74E-02	3.55E-04	6.42E-04	2.88E-03	1.44E-04	2.67E-03	2.98E-06	0.02412433	8.92E-03	3.55E-04	6.42E-04	2.88E-03	1.44E-04	2.62E-04	2.67E-03	1.59E-02
4425	493863.09, 3857877.25	1.56E-02	3.32E-04	6.20E-04	2.51E-03	1.26E-04	2.40E-03	2.38E-06	0.02158427	8.00E-03	3.32E-04	6.20E-04	2.51E-03	1.26E-04	2.31E-04	2.40E-03	1.42E-02
4426	494363.09, 3857877.25	1.43E-02	3.17E-04	6.02E-04	2.25E-03	1.12E-04	2.19E-03	1.97E-06	0.01973759	7.33E-03	3.17E-04	6.02E-04	2.25E-03	1.12E-04	2.09E-04	2.19E-03	1.30E-02
4427	494863.09, 3857877.25	1.25E-02	2.95E-04	5.49E-04	1.90E-03	9.44E-05	1.91E-03	1.57E-06	0.01722876	6.43E-03	2.95E-04	5.49E-04	1.90E-03	9.44E-05	1.76E-04	1.91E-03	1.14E-02
4428	495363.09, 3857877.25	1.17E-02	2.85E-04	5.42E-04	1.76E-03	8.74E-05	1.79E-03	1.37E-06	0.01617225	6.05E-03	2.85E-04	5.42E-04	1.76E-03	8.74E-05	1.64E-04	1.79E-03	1.07E-02
4429	495863.09, 3857877.25	1.10E-02	2.77E-04	5.33E-04	1.64E-03	8.16E-05	1.68E-03	1.21E-06	0.01526141	5.72E-03	2.77E-04	5.33E-04	1.64E-03	8.16E-05	1.54E-04	1.68E-03	1.01E-02
4430	496363.09, 3857877.25	1.09E-02	2.75E-04	5.48E-04	1.62E-03	8.11E-05	1.64E-03	1.13E-06	0.01509992	5.66E-03	2.75E-04	5.48E-04	1.62E-03	8.11E-05	1.54E-04	1.64E-03	9.98E-03
4431	496863.09, 3857877.25	1.12E-02	2.75E-04	5.65E-04	1.60E-03	8.08E-05	1.61E-03	1.07E-06	0.01533275	5.79E-03	2.75E-04	5.65E-04	1.60E-03	8.08E-05	1.53E-04	1.61E-03	1.01E-02
4432	497363.09, 3857877.25	1.13E-02	2.73E-04	5.68E-04	1.56E-03	7.90E-05	1.56E-03	1.00E-06	0.01538446	5.85E-03	2.73E-04	5.68E-04	1.56E-03	7.90E-05	1.50E-04	1.56E-03	1.00E-02
4433	497863.09, 3857877.25	1.14E-02	2.88E-04	6.44E-04	1.75E-03	8.96E-05	1.70E-03	1.08E-06	0.01589702	5.91E-03	2.88E-04	6.44E-04	1.75E-03	8.96E-05	1.71E-04	1.70E-03	1.06E-02
4434	498363.09, 3857877.25	1.20E-02	3.02E-04	7.16E-04	1.94E-03	9.97E-05	1.84E-03	1.18E-06	0.01691681	6.22E-03	3.02E-04	7.16E-04	1.94E-03	9.97E-05	1.92E-04	1.84E-03	1.13E-02
4435	471363.09, 3858377.25	2.48E-03	9.96E-05	3.25E-04	3.89E-04	1.93E-05	2.85E-04	8.03E-08	0.00359733	1.33E-03	9.96E-05	3.25E-04	3.89E-04	1.93E-05	3.54E-05	2.85E-04	2.48E-03
4436	471863.09, 3858377.25	2.57E-03	1.01E-04	3.33E-04	4.05E-04	2.02E-05	2.92E-04	8.26E-08	0.00371969	1.37E-03	1.01E-04	3.33E-04	4.05E-04	2.02E-05	3.69E-05	2.92E-04	2.56E-03
4437	472363.09, 3858377.25	2.68E-03	1.03E-04	3.41E-04	4.23E-04	2.13E-05	3.01E-04	8.54E-08	0.00387098	1.43E-03	1.03E-04	3.41E-04	4.23E-04	2.13E-05	3.86E-05	3.01E-04	2.66E-03
4438	472863.09, 3858377.25	2.80E-03	1.05E-04	3.54E-04	4.58E-04	2.29E-05	3.21E-04	9.01E-08	0.00406043	1.49E-03	1.05E-04	3.54E-04	4.58E-04	2.29E-05	4.12E-05	3.21E-04	2.79E-03
4439	473363.09, 3858377.25	2.97E-03	1.11E-04	3.76E-04	5.24E-04	2.55E-05	3.69E-04	9.89E-08	0.00437218	1.58E-03	1.11E-04	3.76E-04	5.24E-04	2.55E-05	4.53E-05	3.69E-04	3.03E-03
4440	473863.09, 3858377.25	3.09E-03	1.11E-04	3.77E-04	5.30E-04	2.66E-05	3.63E-04	9.98E-08	0.00449822	1.64E-03	1.11E-04	3.77E-04	5.30E-04	2.66E-05	4.70E-05	3.63E-04	3.09E-03
4441	474363.09, 3858377.25	3.16E-03	1.05E-04	3.46E-04	4.61E-04	2.53E-05	3.12E-04	9.21E-08	0.00440438	1.66E-03	1.05E-04	3.46E-04	4.61E-04	2.53E-05	4.45E-05	3.12E-04	2.96E-03
4442	474863.09, 3858377.25	3.12E-03	9.87E-05	2.88E-04	3.55E-04	2.13E-05	2.55E-04	8.03E-08	0.00414137	1.64E-03	9.87E-05	2.88E-04	3.55E-04	2.13E-05	3.74E-05	2.55E-04	2.69E-03
4443	475363.09, 3858377.25	2.78E-03	8.71E-05	1.92E-04	2.35E-04	1.41E-05	1.94E-04	6.19E-08	0.00350262	1.46E-03	8.71E-05	1.92E-04	2.35E-04	1.41E-05	2.51E-05	1.94E-04	2.21E-03
4444	475863.09, 3858377.25	2.46E-03	8.09E-05	1.27E-04	1.75E-04	9.77E-06	1.65E-04	4.89E-08	0.00302233	1.30E-03	8.09E-05	1.27E-04	1.75E-04	9.77E-06	1.77E-05	1.65E-04	1.87E-03
4445	476363.09, 3858377.25	2.63E-03	8.34E-05	1.38E-04	1.92E-04	1.08E-05	1.78E-04	5.30E-08	0.00323714	1.38E-03	8.34E-05	1.38E-04	1.92E-04	1.08E-05	1.94E-05	1.78E-04	2.01E-03
4446	476863.09, 3858377.25	2.82E-03	8.67E-05	1.50E-04	2.15E-04	1.22E-05	1.93E-04	5.70E-08	0.00347952	1.48E-03	8.67E-05	1.50E-04	2.15E-04	1.22E-05	2.13E-05	1.93E-04	2.16E-03
4447	477363.09, 3858377.25	2.85E-03	8.80E-05	1.37E-04	2.06E-04	1.16E-05	1.94E-04	5.58E-08	0.00349007	1.50E-03	8.80E-05	1.37E-04	2.06E-04	1.16E-05	2.03E-05	1.94E-04	2.15E-03
4448	477863.09, 3858377.25	3.40E-03	9.67E-05	1.87E-04	2.76E-04	1.64E-05	2.37E-04	7.12E-08	0.00420975	1.77E-03	9.67E-05	1.87E-04	2.76E-04	1.64E-05	2.83E-05	2.37E-04	2.61E-03
4449	478363.09, 3858377.25	3.64E-03	1.02E-04	1.97E-04	3.00E-04	1.79E-05	2.57E-04	7.64E-08	0.00451582	1.90E-03	1.02E-04	1.97E-04	3.00E-04	1.79E-05	3.13E-05	2.57E-04	2.80E-03
4450	478863.09, 3858377.25	3.09E-03	9.58E-05	1.22E-04	2.10E-04	1.16E-05	2.13E-04	5.73E-08	0.00374714	1.62E-03	9.58E-05	1.22E-04	2.10E-04	1.16E-05	2.06E-05	2.13E-04	2.30E-03
4451	479363.09, 3858377.25	5.46E-03	1.33E-04	3.54E-04	6.76E-04	4.24E-05	4.72E-04	1.34E-07	0.00714183	2.82E-03	1.33E-04	3.54E-04	6.76E-04	4.24E-05	7.80E-05	4.72E-04	4.57E-03
4452	479863.09, 3858377.25	6.35E-03	1.69E-04	5.07E-04	1.45E-03	7.20E-05	8.98E-04	2.07E-07	0.0094512	3.30E-03	1.69E-04	5.07E-04	1.45E-03	7.20E-05	1.39E-04	8.98E-04	6.53E-03
4453	480363.09, 3858377.25	6.75E-03	1.88E-04	5.42E-04	1.82E-03	8.36E-05	1.19E-03	2.41E-07	0.01056771	3.52E-03	1.88E-04	5.42E-04	1.82E-03	8.36E-05	1.61E-04	1.19E-03	7.50E-03
4454	480863.09, 3858377.25	7.29E-03	1.98E-04	5.51E-04	2.04E-03	9.29E-05	1.32E-03	2.62E-07	0.01149747	3.79E-03	1.98E-04	5.51E-04	2.04E-03	9.29E-05	1.79E-04	1.32E-03	8.18E-03
4455	481363.09, 3858377.25	7.83E-03	2.10E-04	5.71E-04	2.33E-03	1.05E-04	1.54E-03	2.90E-07	0.0125848	4.07E-03	2.10E-04	5.71E-04	2.33E-03	1.05E-04	2.01E-04	1.54E-03	9.03E-03
4456	481863.09, 3858377.25	8.41E-03	2.19E-04	5.77E-04	2.63E-03	1.18E-04	1.71E-03	3.18E-07	0.01365926	4.37E-03	2.19E-04	5.77E-04	2.63E-03	1.18E-04	2.27E-04	1.71E-03	9.84E-03
4457	482363.09, 3858377.25	9.01E-03	2.36E-04	6.00E-04	3.05E-03	1.34E-04	2.07E-03	3.59E-07	0.0150957	4.68E-03	2.36E-04	6.00E-04	3.05E-03	1.34E-04	2.61E-04	2.07E-03	1.10E-02
4458	482863.09, 3858377.25	9.36E-03	2.59E-04	6.42E-04	3.69E-03	1.50E-04	3.00E-03	4.24E-07	0.01711015	4.89E-03	2.59E-04	6.42E-04	3.69E-03	1.50E-04	2.98E-04	3.00E-03	1.29E-02
4459	483363.09, 3858377.25	9.71E-03	2.80E-04	6.72E-04	4.10E-03	1.60E-04	4.01E-03	4.90E-07	0.01893356	5.10E-03	2.80E-04	6.72E-04	4.10E-03	1.60E-04	3.19E-04	4.01E-03	1.46E-02
4460	483863.09, 3858377.25	1.05E-02	3.00E-04	7.03E-04	4.56E-03	1.75E-04	4.68E-03	5.56E-07	0.02092113	5.52E-03	3.00E-04	7.03E-04	4.56E-03	1.75E-04	3.47E-04	4.68E-03	1.63E-02
4461	484363.09, 3858377.25	1.20E-02	3.29E-04	7.42E-04	5.25E-03	1.98E-04	5.45E-03	6.45E-07	0.02393865	6.28E-03	3.29E-04	7.42E-04	5.25E-03	1.98E-04	3.86E-04	5.45E-03	1.86E-02
4462	484863.09, 3858377.25	1.47E-02	3.71E-04	7.88E-04	6.06E-03	2.23E-04	6.56E-03	7.61E-07	0.02868265	7.66E-03	3.71E-04	7.88E-04	6.06E-03	2.23E-04	4.19E-04	6.56E-03	2.21E-02
4463	485363.09, 3858377.25	1.87E-02	4.31E-04	8.49E-04	7.03E-03	2.52E-04	8.41E-03	9.13E-07	0.03571007	9.73E-03	4.31E-04	8.49E-04	7.03E-03	2.52E-04	4.49E-04	8.41E-03	2.72E-02
4464	485863.09, 3858377.25	2.64E-02	5.13E-04	9.27E-04	8.41E-03	2.90E-04	1.28E-02	1.13E-06	0.04933563	1.36E-02	5.13E-04	9.27E-04	8.41E-03	2.90E-04	4.84E-04	1.28E-02	3.70E-02
4465	486363.09, 3858377.25	6.69E-02	6.39E-04	1.02E-03	1.03E-02	3.41E-04	5.93E-02	1.47E-06	0.1384503	3.35E-02	6.39E-04	1.02E-03	1.03E-02	3.41E-04	4.89E-04	5.93E-02	1.06E-01
4466	486863.09, 3858377.25	1.55E-01	8.74E-04	1.12E-03	1.31E-02	4.04E-04	7.80E-02	2.01E-06	0.24875428	7.70E-02	8.74E-04	1.12E-03	1.31E-02	4.04E-04	4.86E-04	7.80E-02	1.71E-01
4467	487363.09, 3858377.25	1.79E-01	1.56E-03	1.25E-03	1.90E-02	5.15E-04	3.67E-02	3.15E-06	0.23851761	9.01E-02	1.56E-03	1.25E-03	1.90E-02	5.15E-04	5.13E-04	3.67E-02	1.50E-01
4468	487863.09, 3858377.25	2.74E-01	2.00E-02	1.56E-03	6.04E-02	8.68E-04	2.41E-02	7.32E-06	0.38078879	1.80E-01	2.00E-02	1.56E-03	6.04E-02	8.68E-04	5.64E-04	2.41E-02	2.87E-01
4469	488363.09, 3858377.25	1.95E-01	1.25E-02	2.01E-03	3.93E-02	2.19E-03	1.83E-02	2.15E-05	0.26884859	1.01E-01	1.25E-02	2.01E-03	3.93E-02	2.19E-03	5.87E-04	1.83E-02	1.76E-01
4470	488863.09, 3858377.25	1.03E-01	3.15E-03	2.27E-03	2.30E-02	1.02E-03	1.57E-02	4.45E-05	0.14785118	5.34E-02	3.15E-03	2.27E-03	2.30E-02	1.02E-03	5.72E-04	1.57E-02	9.91E-02
4471	489363.09, 3858377.25	6.91E-02	1.99E-03	2.18E-03	1.71E-02	7.43E-04	1.37E-02	5.00E-05	0.10488818	3.60E-02	1.99E-03	2.18E-03	1.71E-02	7.43E-04	5.99E-04	1.37E-02	7.23E-02
4472	489863.09, 3858377.25	5.45E-02	1.50E-03	2.16E-03	1.38E-02	6.02E-04	1.22E-02	9.14E-05	0.0847899	2.84E-02	1.50E-03	2.16E-03	1.38E-02	6.02E-04	6.13E-04	1.22E-02	5.92E-02

4473	490363.09, 3858377.25	4.58E-02	1.22E-03	2.24E-03	1.15E-02	5.04E-04	1.08E-02	8.11E-05	0.07215512	2.38E-02	1.22E-03	2.24E-03	1.15E-02	5.04E-04	5.98E-04	1.08E-02	5.07E-02
4474	490863.09, 3858377.25	3.97E-02	1.04E-03	2.25E-03	9.78E-03	4.33E-04	9.62E-03	6.17E-05	0.06286965	2.06E-02	1.04E-03	2.25E-03	9.78E-03	4.33E-04	5.68E-04	9.62E-03	4.43E-02
4475	491363.09, 3858377.25	3.55E-02	8.51E-04	1.93E-03	8.25E-03	3.71E-04	7.96E-03	2.59E-05	0.05483848	1.83E-02	8.51E-04	1.93E-03	8.25E-03	3.71E-04	5.36E-04	7.96E-03	3.82E-02
4476	491863.09, 3858377.25	3.25E-02	6.48E-04	1.42E-03	6.15E-03	2.94E-04	5.84E-03	1.04E-05	0.04684515	1.66E-02	6.48E-04	1.42E-03	6.15E-03	2.94E-04	4.63E-04	5.84E-03	3.14E-02
4477	492363.09, 3858377.25	2.55E-02	5.02E-04	1.06E-03	3.87E-03	1.92E-04	3.95E-03	4.96E-06	0.0350762	1.30E-02	5.02E-04	1.06E-03	3.87E-03	1.92E-04	3.12E-04	3.95E-03	2.29E-02
4478	492863.09, 3858377.25	2.49E-02	4.95E-04	1.16E-03	3.96E-03	1.98E-04	4.00E-03	4.51E-06	0.03466841	1.27E-02	4.95E-04	1.16E-03	3.96E-03	1.98E-04	3.36E-04	4.00E-03	2.28E-02
4479	493363.09, 3858377.25	2.14E-02	4.43E-04	1.08E-03	3.28E-03	1.64E-04	3.37E-03	3.36E-06	0.02968286	1.09E-02	4.43E-04	1.08E-03	3.28E-03	1.64E-04	2.83E-04	3.37E-03	1.95E-02
4480	493863.09, 3858377.25	1.91E-02	4.08E-04	1.03E-03	2.91E-03	1.46E-04	3.01E-03	2.75E-06	0.02657949	9.79E-03	4.08E-04	1.03E-03	2.91E-03	1.46E-04	2.57E-04	3.01E-03	1.75E-02
4481	494363.09, 3858377.25	1.68E-02	3.76E-04	9.54E-04	2.53E-03	1.27E-04	2.65E-03	2.22E-06	0.02346007	8.65E-03	3.76E-04	9.54E-04	2.53E-03	1.27E-04	2.27E-04	2.65E-03	1.55E-02
4482	494863.09, 3858377.25	1.50E-02	3.51E-04	8.85E-04	2.24E-03	1.12E-04	2.36E-03	1.85E-06	0.02094131	7.73E-03	3.51E-04	8.85E-04	2.24E-03	1.12E-04	2.03E-04	2.36E-03	1.39E-02
4483	495363.09, 3858377.25	1.32E-02	3.27E-04	7.94E-04	1.94E-03	9.67E-05	2.08E-03	1.52E-06	0.01845162	6.84E-03	3.27E-04	7.94E-04	1.94E-03	9.67E-05	1.77E-04	2.08E-03	1.22E-02
4484	495863.09, 3858377.25	1.27E-02	3.18E-04	7.69E-04	1.85E-03	9.28E-05	1.98E-03	1.38E-06	0.01767414	6.55E-03	3.18E-04	7.69E-04	1.85E-03	9.28E-05	1.72E-04	1.98E-03	1.17E-02
4485	496363.09, 3858377.25	1.25E-02	3.09E-04	7.41E-04	1.76E-03	8.84E-05	1.87E-03	1.25E-06	0.01723498	6.45E-03	3.09E-04	7.41E-04	1.76E-03	8.84E-05	1.66E-04	1.87E-03	1.14E-02
4486	496863.09, 3858377.25	1.23E-02	3.12E-04	7.60E-04	1.80E-03	9.12E-05	1.88E-03	1.23E-06	0.01714343	6.37E-03	3.12E-04	7.60E-04	1.80E-03	9.12E-05	1.73E-04	1.88E-03	1.14E-02
4487	497363.09, 3858377.25	1.18E-02	3.09E-04	7.54E-04	1.77E-03	9.02E-05	1.83E-03	1.18E-06	0.01660544	6.14E-03	3.09E-04	7.54E-04	1.77E-03	9.02E-05	1.72E-04	1.83E-03	1.11E-02
4488	497863.09, 3858377.25	1.22E-02	3.22E-04	8.17E-04	1.92E-03	9.80E-05	1.93E-03	1.24E-06	0.0173098	6.34E-03	3.22E-04	8.17E-04	1.92E-03	9.80E-05	1.88E-04	1.93E-03	1.16E-02
4489	498363.09, 3858377.25	1.25E-02	3.41E-04	9.01E-04	2.13E-03	1.08E-04	2.10E-03	1.36E-06	0.01804278	6.48E-03	3.41E-04	9.01E-04	2.13E-03	1.08E-04	2.07E-04	2.10E-03	1.23E-02
4490	471363.09, 3858877.25	2.45E-03	9.71E-05	3.13E-04	4.00E-04	1.95E-05	2.87E-04	7.48E-08	0.00356541	1.31E-03	9.71E-05	3.13E-04	4.00E-04	1.95E-05	3.47E-05	2.87E-04	2.46E-03
4491	471863.09, 3858877.25	2.54E-03	9.83E-05	3.18E-04	4.14E-04	2.05E-05	2.93E-04	7.69E-08	0.00367943	1.35E-03	9.83E-05	3.18E-04	4.14E-04	2.05E-05	3.61E-05	2.93E-04	2.53E-03
4492	472363.09, 3858877.25	2.65E-03	1.02E-04	3.31E-04	4.50E-04	2.22E-05	3.17E-04	8.17E-08	0.00387652	1.42E-03	1.02E-04	3.31E-04	4.50E-04	2.22E-05	3.87E-05	3.17E-04	2.68E-03
4493	472863.09, 3858877.25	2.77E-03	1.04E-04	3.42E-04	4.85E-04	2.38E-05	3.38E-04	8.63E-08	0.00406358	1.48E-03	1.04E-04	3.42E-04	4.85E-04	2.38E-05	4.14E-05	3.38E-04	2.81E-03
4494	473363.09, 3858877.25	2.88E-03	1.08E-04	3.59E-04	5.41E-04	2.58E-05	3.79E-04	9.32E-08	0.00429093	1.53E-03	1.08E-04	3.59E-04	5.41E-04	2.58E-05	4.52E-05	3.79E-04	2.99E-03
4495	473863.09, 3858877.25	3.03E-03	1.09E-04	3.63E-04	5.54E-04	2.70E-05	3.78E-04	9.51E-08	0.00446232	1.61E-03	1.09E-04	3.63E-04	5.54E-04	2.70E-05	4.77E-05	3.78E-04	3.09E-03
4496	474363.09, 3858877.25	3.10E-03	1.05E-04	3.43E-04	5.02E-04	2.63E-05	3.37E-04	9.11E-08	0.00441228	1.63E-03	1.05E-04	3.43E-04	5.02E-04	2.63E-05	4.70E-05	3.37E-04	2.99E-03
4497	474863.09, 3858877.25	2.63E-03	8.26E-05	1.89E-04	2.26E-04	1.35E-05	1.84E-04	5.90E-08	0.00332301	1.38E-03	8.26E-05	1.89E-04	2.26E-04	1.35E-05	2.41E-05	1.84E-04	2.10E-03
4498	475363.09, 3858877.25	2.34E-03	7.68E-05	1.31E-04	1.70E-04	9.66E-06	1.56E-04	4.81E-08	0.00288413	1.23E-03	7.68E-05	1.31E-04	1.70E-04	9.66E-06	1.74E-05	1.56E-04	1.79E-03
4499	475863.09, 3858877.25	2.54E-03	8.01E-05	1.49E-04	1.96E-04	1.14E-05	1.73E-04	5.40E-08	0.00315197	1.33E-03	8.01E-05	1.49E-04	1.96E-04	1.14E-05	2.01E-05	1.73E-04	1.96E-03
4500	476363.09, 3858877.25	2.17E-03	7.18E-05	8.06E-05	1.28E-04	6.85E-06	1.37E-04	3.79E-08	0.00259043	1.14E-03	7.18E-05	8.06E-05	1.28E-04	6.85E-06	1.23E-05	1.37E-04	1.58E-03
4501	476863.09, 3858877.25	2.41E-03	7.76E-05	1.06E-04	1.63E-04	9.00E-06	1.59E-04	4.57E-08	0.00292993	1.27E-03	7.76E-05	1.06E-04	1.63E-04	9.00E-06	1.56E-05	1.59E-04	1.80E-03
4502	477363.09, 3858877.25	2.53E-03	7.97E-05	1.09E-04	1.68E-04	9.33E-06	1.67E-04	4.80E-08	0.00306288	1.33E-03	7.97E-05	1.09E-04	1.68E-04	9.33E-06	1.66E-05	1.67E-04	1.88E-03
4503	477863.09, 3858877.25	2.86E-03	8.55E-05	1.39E-04	2.10E-04	1.21E-05	1.96E-04	5.82E-08	0.00350485	1.50E-03	8.55E-05	1.39E-04	2.10E-04	1.21E-05	2.17E-05	1.96E-04	2.16E-03
4504	478363.09, 3858877.25	4.14E-03	1.06E-04	2.76E-04	4.41E-04	2.76E-05	3.35E-04	1.00E-07	0.00532341	2.14E-03	1.06E-04	2.76E-04	4.41E-04	2.76E-05	5.07E-05	3.35E-04	3.38E-03
4505	478863.09, 3858877.25	3.97E-03	1.04E-04	2.33E-04	3.70E-04	2.33E-05	3.03E-04	9.14E-08	0.00499867	2.05E-03	1.04E-04	2.33E-04	3.70E-04	2.33E-05	4.19E-05	3.03E-04	3.13E-03
4506	479363.09, 3858877.25	3.63E-03	1.02E-04	1.85E-04	3.02E-04	1.84E-05	2.66E-04	7.95E-08	0.00450679	1.89E-03	1.02E-04	1.85E-04	3.02E-04	1.84E-05	3.30E-05	2.66E-04	2.80E-03
4507	479863.09, 3858877.25	5.73E-03	1.61E-04	4.86E-04	1.46E-03	6.88E-05	9.71E-04	2.11E-07	0.00888089	2.99E-03	1.61E-04	4.86E-04	1.46E-03	6.88E-05	1.34E-04	9.71E-04	6.27E-03
4508	480363.09, 3858877.25	6.06E-03	1.73E-04	5.06E-04	1.72E-03	7.72E-05	1.19E-03	2.39E-07	0.00972399	3.16E-03	1.73E-04	5.06E-04	1.72E-03	7.72E-05	1.50E-04	1.19E-03	6.98E-03
4509	480863.09, 3858877.25	6.45E-03	1.83E-04	5.23E-04	1.94E-03	8.57E-05	1.39E-03	2.66E-07	0.01057305	3.37E-03	1.83E-04	5.23E-04	1.94E-03	8.57E-05	1.64E-04	1.39E-03	7.65E-03
4510	481363.09, 3858877.25	6.86E-03	1.93E-04	5.36E-04	2.16E-03	9.49E-05	1.55E-03	2.94E-07	0.01139441	3.58E-03	1.93E-04	5.36E-04	2.16E-03	9.49E-05	1.81E-04	1.55E-03	8.30E-03
4511	481863.09, 3858877.25	7.26E-03	2.05E-04	5.45E-04	2.43E-03	1.06E-04	1.76E-03	3.28E-07	0.0123111	3.79E-03	2.05E-04	5.45E-04	2.43E-03	1.06E-04	2.01E-04	1.76E-03	9.04E-03
4512	482363.09, 3858877.25	7.80E-03	2.18E-04	5.57E-04	2.68E-03	1.17E-04	1.92E-03	3.63E-07	0.01329275	4.07E-03	2.18E-04	5.57E-04	2.68E-03	1.17E-04	2.24E-04	1.92E-03	9.79E-03
4513	482863.09, 3858877.25	8.29E-03	2.33E-04	5.79E-04	3.03E-03	1.30E-04	2.25E-03	4.12E-07	0.01451012	4.33E-03	2.33E-04	5.79E-04	3.03E-03	1.30E-04	2.51E-04	2.25E-03	1.08E-02
4514	483363.09, 3858877.25	8.29E-03	2.62E-04	6.26E-04	3.40E-03	1.36E-04	3.33E-03	4.90E-07	0.01604039	4.37E-03	2.62E-04	6.26E-04	3.40E-03	1.36E-04	2.57E-04	3.33E-03	1.24E-02
4515	483863.09, 3858877.25	8.94E-03	2.77E-04	6.59E-04	3.70E-03	1.46E-04	3.83E-03	5.55E-07	0.01754883	4.71E-03	2.77E-04	6.59E-04	3.70E-03	1.46E-04	2.73E-04	3.83E-03	1.36E-02
4516	484363.09, 3858877.25	1.00E-02	2.96E-04	7.01E-04	4.12E-03	1.61E-04	4.50E-03	6.43E-07	0.01977537	5.26E-03	2.96E-04	7.01E-04	4.12E-03	1.61E-04	2.98E-04	4.50E-03	1.53E-02
4517	484863.09, 3858877.25	1.19E-02	3.20E-04	7.51E-04	4.59E-03	1.76E-04	5.48E-03	7.57E-07	0.02319052	6.21E-03	3.20E-04	7.51E-04	4.59E-03	1.76E-04	3.20E-04	5.48E-03	1.78E-02
4518	485363.09, 3858877.25	1.50E-02	3.57E-04	8.20E-04	5.11E-03	1.94E-04	7.19E-03	9.12E-07	0.02864962	7.78E-03	3.57E-04	8.20E-04	5.11E-03	1.94E-04	3.34E-04	7.19E-03	2.18E-02
4519	485863.09, 3858877.25	2.04E-02	4.08E-04	9.20E-04	5.76E-03	2.14E-04	1.13E-02	1.14E-06	0.03896355	1.05E-02	4.08E-04	9.20E-04	5.76E-03	2.14E-04	3.44E-04	1.13E-02	2.94E-02
4520	486363.09, 3858877.25	3.75E-02	4.73E-04	1.05E-03	6.39E-03	2.35E-04	5.54E-02	1.47E-06	0.10105682	1.89E-02	4.73E-04	1.05E-03	6.39E-03	2.35E-04	3.37E-04	5.54E-02	8.28E-02
4521	486863.09, 3858877.25	1.39E-01	5.70E-04	1.23E-03	7.16E-03	2.62E-04	8.03E-02	1.99E-06	0.22863074	6.85E-02	5.70E-04	1.23E-03	7.16E-03	2.62E-04	3.35E-04	8.03E-02	1.58E-01
4522	487363.09, 3858877.25	1.67E-01	7.40E-04	1.54E-03	8.26E-03	3.03E-04	8.22E-02	2.83E-06	0.26005524	8.23E-02	7.40E-04	1.54E-03	8.26E-03	3.03E-04	3.69E-04	8.22E-02	1.76E-01
4523	487863.09, 3858877.25	1.81E-01	1.07E-03	2.07E-03	9.19E-03	3.61E-04	4.02E-02	4.43E-06	0.23359253	8.95E-02	1.07E-03	2.07E-03	9.19E-03	3.61E-04	3.74E-04	4.02E-02	1.43E-01
4524	488363.09, 3858877.25	1.87E-01	2.27E-03	3.46E-03	1.07E-02	5.22E-04	6.80E-02	7.70E-06	0.27238091	9.47E-02	2.27E-03	3.46E-03	1.07E-02	5.22E-04	3.91E-04	6.80E-02	1.80E-01
4525	488863.09, 3858877.25	2.05E-01	2.42E-02	1.62E-02	2.36E-02	1.89E-03	3.27E-02	1.91E-05	0.30376007	1.24E-01	2.42E-02	1.62E-02	2.36E-02	1.89E-03	4.08E-04	3.27E-02	2.23E-01
4526	489363.09, 3858877.25	8.62E-02	4.56E-03	1.53E-02	1.09E-02	6.49E-04	2.22E-02	7.56E-05	0.13999172	4.75E-02	4.56E-03	1.53E-02	1.09E-02	6.49E-04	3.86E-04	2.22E-02	1.02E-01

4527	489863.09, 3858877.25	5.97E-02	2.56E-03	9.86E-03	9.31E-03	4.54E-04	1.71E-02	2.49E-05	0.09899153	3.23E-02	2.56E-03	9.86E-03	9.31E-03	4.54E-04	3.88E-04	1.71E-02	7.19E-02
4528	490363.09, 3858877.25	4.76E-02	1.77E-03	6.92E-03	8.27E-03	3.76E-04	1.34E-02	1.70E-05	0.07834036	2.54E-02	1.77E-03	6.92E-03	8.27E-03	3.76E-04	4.13E-04	1.34E-02	5.65E-02
4529	490863.09, 3858877.25	4.09E-02	1.26E-03	4.55E-03	7.16E-03	3.21E-04	1.00E-02	1.21E-05	0.06426892	2.15E-02	1.26E-03	4.55E-03	7.16E-03	3.21E-04	4.24E-04	1.00E-02	4.52E-02
4530	491363.09, 3858877.25	3.68E-02	9.02E-04	2.91E-03	5.67E-03	2.64E-04	7.14E-03	7.20E-06	0.05367182	1.90E-02	9.02E-04	2.91E-03	5.67E-03	2.64E-04	3.96E-04	7.14E-03	3.63E-02
4531	491863.09, 3858877.25	3.09E-02	6.86E-04	2.04E-03	4.00E-03	1.97E-04	5.10E-03	4.29E-06	0.04293516	1.59E-02	6.86E-04	2.04E-03	4.00E-03	1.97E-04	3.10E-04	5.10E-03	2.82E-02
4532	492363.09, 3858877.25	2.88E-02	6.72E-04	2.18E-03	4.34E-03	2.08E-04	5.27E-03	4.74E-06	0.04148496	1.49E-02	6.72E-04	2.18E-03	4.34E-03	2.08E-04	3.35E-04	5.27E-03	2.79E-02
4533	492863.09, 3858877.25	2.64E-02	6.82E-04	2.43E-03	4.56E-03	2.12E-04	5.46E-03	5.18E-06	0.03976283	1.37E-02	6.82E-04	2.43E-03	4.56E-03	2.12E-04	3.43E-04	5.46E-03	2.74E-02
4534	493363.09, 3858877.25	2.40E-02	6.04E-04	2.10E-03	4.02E-03	1.91E-04	4.71E-03	4.13E-06	0.03563124	1.24E-02	6.04E-04	2.10E-03	4.02E-03	1.91E-04	3.18E-04	4.71E-03	2.44E-02
4535	493863.09, 3858877.25	2.12E-02	5.17E-04	1.70E-03	3.22E-03	1.58E-04	3.76E-03	2.93E-06	0.03058101	1.10E-02	5.17E-04	1.70E-03	3.22E-03	1.58E-04	2.70E-04	3.76E-03	2.06E-02
4536	494363.09, 3858877.25	1.93E-02	4.73E-04	1.54E-03	2.90E-03	1.44E-04	3.37E-03	2.49E-06	0.02775259	9.98E-03	4.73E-04	1.54E-03	2.90E-03	1.44E-04	2.50E-04	3.37E-03	1.87E-02
4537	494863.09, 3858877.25	1.74E-02	4.30E-04	1.38E-03	2.56E-03	1.28E-04	2.94E-03	2.06E-06	0.0248066	8.98E-03	4.30E-04	1.38E-03	2.56E-03	1.28E-04	2.25E-04	2.94E-03	1.66E-02
4538	495363.09, 3858877.25	1.56E-02	3.95E-04	1.22E-03	2.26E-03	1.13E-04	2.58E-03	1.72E-06	0.02218241	8.08E-03	3.95E-04	1.22E-03	2.26E-03	1.13E-04	2.02E-04	2.58E-03	1.49E-02
4539	495863.09, 3858877.25	1.49E-02	3.75E-04	1.12E-03	2.10E-03	1.06E-04	2.37E-03	1.54E-06	0.02101713	7.73E-03	3.75E-04	1.12E-03	2.10E-03	1.06E-04	1.91E-04	2.37E-03	1.40E-02
4540	496363.09, 3858877.25	1.39E-02	3.63E-04	1.07E-03	2.03E-03	1.03E-04	2.26E-03	1.44E-06	0.01969707	7.19E-03	3.63E-04	1.07E-03	2.03E-03	1.03E-04	1.88E-04	2.26E-03	1.32E-02
4541	496863.09, 3858877.25	1.31E-02	3.54E-04	1.01E-03	1.98E-03	9.96E-05	2.17E-03	1.35E-06	0.01868403	6.79E-03	3.54E-04	1.01E-03	1.98E-03	9.96E-05	1.85E-04	2.17E-03	1.26E-02
4542	497363.09, 3858877.25	1.24E-02	3.46E-04	9.61E-04	1.91E-03	9.65E-05	2.07E-03	1.27E-06	0.0177989	6.46E-03	3.46E-04	9.61E-04	1.91E-03	9.65E-05	1.81E-04	2.07E-03	1.20E-02
4543	497863.09, 3858877.25	1.25E-02	3.62E-04	1.03E-03	2.09E-03	1.04E-04	2.23E-03	1.38E-06	0.01827351	6.50E-03	3.62E-04	1.03E-03	2.09E-03	1.04E-04	1.99E-04	2.23E-03	1.25E-02
4544	498363.09, 3858877.25	1.22E-02	3.80E-04	1.10E-03	2.24E-03	1.09E-04	2.39E-03	1.48E-06	0.01841363	6.40E-03	3.80E-04	1.10E-03	2.24E-03	1.09E-04	2.10E-04	2.39E-03	1.28E-02
4545	471363.09, 3859377.25	2.41E-03	9.42E-05	2.96E-04	4.09E-04	1.98E-05	2.89E-04	7.81E-08	0.00352213	1.29E-03	9.42E-05	2.96E-04	4.09E-04	1.98E-05	3.43E-05	2.89E-04	2.43E-03
4546	471863.09, 3859377.25	2.50E-03	9.67E-05	3.04E-04	4.32E-04	2.10E-05	3.03E-04	8.17E-08	0.00366023	1.34E-03	9.67E-05	3.04E-04	4.32E-04	2.10E-05	3.66E-05	3.03E-04	2.53E-03
4547	472363.09, 3859377.25	2.61E-03	9.92E-05	3.16E-04	4.71E-04	2.25E-05	3.29E-04	8.71E-08	0.0038452	1.39E-03	9.92E-05	3.16E-04	4.71E-04	2.25E-05	3.96E-05	3.29E-04	2.67E-03
4548	472863.09, 3859377.25	2.70E-03	1.02E-04	3.28E-04	5.06E-04	2.40E-05	3.51E-04	9.21E-08	0.00401011	1.44E-03	1.02E-04	3.28E-04	5.06E-04	2.40E-05	4.26E-05	3.51E-04	2.79E-03
4549	473363.09, 3859377.25	2.81E-03	1.05E-04	3.40E-04	5.50E-04	2.57E-05	3.81E-04	9.83E-08	0.00420728	1.49E-03	1.05E-04	3.40E-04	5.50E-04	2.57E-05	4.59E-05	3.81E-04	2.94E-03
4550	473863.09, 3859377.25	2.94E-03	1.07E-04	3.48E-04	5.78E-04	2.71E-05	3.95E-04	1.03E-07	0.00438956	1.56E-03	1.07E-04	3.48E-04	5.78E-04	2.71E-05	4.88E-05	3.95E-04	3.06E-03
4551	474363.09, 3859377.25	3.00E-03	1.02E-04	3.29E-04	5.14E-04	2.63E-05	3.46E-04	9.76E-08	0.00432096	1.59E-03	1.02E-04	3.29E-04	5.14E-04	2.63E-05	4.79E-05	3.46E-04	2.95E-03
4552	474863.09, 3859377.25	2.95E-03	9.21E-05	2.66E-04	3.61E-04	2.12E-05	2.57E-04	8.20E-08	0.00394317	1.54E-03	9.21E-05	2.66E-04	3.61E-04	2.12E-05	3.80E-05	2.57E-04	2.58E-03
4553	475363.09, 3859377.25	2.63E-03	8.09E-05	1.81E-04	2.30E-04	1.41E-05	1.85E-04	6.23E-08	0.00331782	1.38E-03	8.09E-05	1.81E-04	2.30E-04	1.41E-05	2.45E-05	1.85E-04	2.09E-03
4554	475863.09, 3859377.25	2.21E-03	7.26E-05	1.09E-04	1.52E-04	8.70E-06	1.44E-04	4.42E-08	0.00269472	1.16E-03	7.26E-05	1.09E-04	1.52E-04	8.70E-06	1.52E-05	1.44E-04	1.66E-03
4555	476363.09, 3859377.25	2.15E-03	7.14E-05	9.25E-05	1.39E-04	7.69E-06	1.38E-04	4.03E-08	0.00260044	1.13E-03	7.14E-05	9.25E-05	1.39E-04	7.69E-06	1.38E-05	1.38E-04	1.60E-03
4556	476863.09, 3859377.25	2.01E-03	6.85E-05	6.96E-05	1.15E-04	6.15E-06	1.26E-04	3.40E-08	0.00239361	1.06E-03	6.85E-05	6.96E-05	1.15E-04	6.15E-06	1.11E-05	1.26E-04	1.46E-03
4557	477363.09, 3859377.25	2.14E-03	7.14E-05	7.64E-05	1.25E-04	6.82E-06	1.36E-04	3.70E-08	0.00255506	1.13E-03	7.14E-05	7.64E-05	1.25E-04	6.82E-06	1.24E-05	1.36E-04	1.56E-03
4558	477863.09, 3859377.25	2.90E-03	8.38E-05	1.59E-04	2.31E-04	1.39E-05	2.02E-04	6.34E-08	0.00358923	1.51E-03	8.38E-05	1.59E-04	2.31E-04	1.39E-05	2.53E-05	2.02E-04	2.23E-03
4559	478363.09, 3859377.25	3.74E-03	9.67E-05	2.40E-04	3.77E-04	2.40E-05	2.92E-04	9.40E-08	0.00477533	1.94E-03	9.67E-05	2.40E-04	3.77E-04	2.40E-05	4.38E-05	2.92E-04	3.01E-03
4560	478863.09, 3859377.25	4.50E-03	1.14E-04	3.30E-04	6.51E-04	3.91E-05	4.53E-04	1.36E-07	0.00608416	2.32E-03	1.14E-04	3.30E-04	6.51E-04	3.91E-05	7.50E-05	4.53E-04	3.99E-03
4561	479363.09, 3859377.25	4.95E-03	1.31E-04	3.93E-04	9.72E-04	5.21E-05	6.36E-04	1.77E-07	0.00713434	2.57E-03	1.31E-04	3.93E-04	9.72E-04	5.21E-05	1.02E-04	6.36E-04	4.85E-03
4562	479863.09, 3859377.25	5.28E-03	1.46E-04	4.34E-04	1.28E-03	6.22E-05	8.40E-04	2.14E-07	0.00804757	2.75E-03	1.46E-04	4.34E-04	1.28E-03	6.22E-05	1.21E-04	8.40E-04	5.63E-03
4563	480363.09, 3859377.25	5.52E-03	1.59E-04	4.65E-04	1.57E-03	7.10E-05	1.09E-03	2.50E-07	0.00887264	2.88E-03	1.59E-04	4.65E-04	1.57E-03	7.10E-05	1.34E-04	1.09E-03	6.37E-03
4564	480863.09, 3859377.25	5.76E-03	1.70E-04	4.88E-04	1.77E-03	7.81E-05	1.30E-03	2.79E-07	0.00957744	3.02E-03	1.70E-04	4.88E-04	1.77E-03	7.81E-05	1.45E-04	1.30E-03	6.98E-03
4565	481363.09, 3859377.25	6.03E-03	1.79E-04	5.02E-04	1.97E-03	8.59E-05	1.50E-03	3.08E-07	0.01026181	3.16E-03	1.79E-04	5.02E-04	1.97E-03	8.59E-05	1.59E-04	1.50E-03	7.55E-03
4566	481863.09, 3859377.25	6.33E-03	1.88E-04	5.13E-04	2.17E-03	9.44E-05	1.70E-03	3.39E-07	0.01100003	3.32E-03	1.88E-04	5.13E-04	2.17E-03	9.44E-05	1.74E-04	1.70E-03	8.16E-03
4567	482363.09, 3859377.25	6.78E-03	1.99E-04	5.26E-04	2.37E-03	1.03E-04	1.87E-03	3.73E-07	0.01185904	3.55E-03	1.99E-04	5.26E-04	2.37E-03	1.03E-04	1.90E-04	1.87E-03	8.82E-03
4568	482863.09, 3859377.25	7.14E-03	2.11E-04	5.48E-04	2.63E-03	1.12E-04	2.19E-03	4.19E-07	0.01283574	3.74E-03	2.11E-04	5.48E-04	2.63E-03	1.12E-04	2.05E-04	2.19E-03	9.64E-03
4569	483363.09, 3859377.25	7.39E-03	2.30E-04	5.85E-04	2.90E-03	1.20E-04	2.76E-03	4.83E-07	0.0139842	3.89E-03	2.30E-04	5.85E-04	2.90E-03	1.20E-04	2.18E-04	2.76E-03	1.07E-02
4570	483863.09, 3859377.25	7.73E-03	2.47E-04	6.19E-04	3.02E-03	1.22E-04	3.31E-03	5.46E-07	0.01504821	4.09E-03	2.47E-04	6.19E-04	3.02E-03	1.22E-04	2.25E-04	3.31E-03	1.16E-02
4571	484363.09, 3859377.25	8.56E-03	2.67E-04	6.61E-04	3.28E-03	1.32E-04	3.87E-03	6.33E-07	0.01676203	4.51E-03	2.67E-04	6.61E-04	3.28E-03	1.32E-04	2.40E-04	3.87E-03	1.30E-02
4572	484863.09, 3859377.25	9.82E-03	2.89E-04	7.12E-04	3.58E-03	1.42E-04	4.65E-03	7.45E-07	0.01918861	5.16E-03	2.89E-04	7.12E-04	3.58E-03	1.42E-04	2.54E-04	4.65E-03	1.48E-02
4573	485363.09, 3859377.25	1.19E-02	3.17E-04	7.79E-04	3.85E-03	1.52E-04	5.92E-03	8.92E-07	0.02293884	6.22E-03	3.17E-04	7.79E-04	3.85E-03	1.52E-04	2.56E-04	5.92E-03	1.75E-02
4574	485863.09, 3859377.25	1.52E-02	3.51E-04	8.73E-04	4.09E-03	1.63E-04	8.23E-03	1.10E-06	0.02892547	7.87E-03	3.51E-04	8.73E-04	4.09E-03	1.63E-04	2.53E-04	8.23E-03	2.18E-02
4575	486363.09, 3859377.25	2.14E-02	3.89E-04	1.01E-03	4.36E-03	1.74E-04	1.33E-02	1.35E-06	0.04072214	1.10E-02	3.89E-04	1.01E-03	4.36E-03	1.74E-04	2.51E-04	1.33E-02	3.05E-02
4576	486863.09, 3859377.25	5.47E-02	4.38E-04	1.20E-03	4.60E-03	1.84E-04	5.32E-02	1.74E-06	0.11440077	2.72E-02	4.38E-04	1.20E-03	4.60E-03	1.84E-04	2.46E-04	5.32E-02	8.71E-02
4577	487363.09, 3859377.25	1.39E-01	5.12E-04	1.51E-03	4.82E-03	1.95E-04	6.96E-02	2.37E-06	0.21608996	6.86E-02	5.12E-04	1.51E-03	4.82E-03	1.95E-04	2.57E-04	6.96E-02	1.45E-01
4578	487863.09, 3859377.25	1.61E-01	6.32E-04	2.12E-03	5.09E-03	2.14E-04	7.46E-02	3.31E-06	0.24384615	7.93E-02	6.32E-04	2.12E-03	5.09E-03	2.14E-04	2.68E-04	7.46E-02	1.62E-01
4579	488363.09, 3859377.25	1.72E-01	8.45E-04	3.34E-03	5.37E-03	2.33E-04	8.73E-02	4.75E-06	0.26863623	8.46E-02	8.45E-04	3.34E-03	5.37E-03	2.33E-04	2.87E-04	8.73E-02	1.82E-01
4580	488863.09, 3859377.25	1.23E-01	1.34E-03	6.74E-03	5.50E-03	2.44E-04	5.76E-02	9.29E-06	0.19440258	6.16E-02	1.34E-03	6.74E-03	5.50E-03	2.44E-04	3.02E-04	5.76E-02	1.33E-01

4581	489363.09, 3859377.25	7.71E-02	3.70E-03	1.82E-02	5.30E-03	2.48E-04	2.87E-02	4.21E-05	0.13329429	4.22E-02	3.70E-03	1.82E-02	5.30E-03	2.48E-04	3.10E-04	2.87E-02	9.86E-02
4582	489863.09, 3859377.25	1.48E-01	1.24E-02	6.33E-02	5.44E-03	2.40E-04	2.00E-02	1.51E-05	0.24977937	8.73E-02	1.24E-02	6.33E-02	5.44E-03	2.40E-04	2.90E-04	2.00E-02	1.89E-01
4583	490363.09, 3859377.25	6.39E-02	3.92E-03	2.18E-02	5.45E-03	2.32E-04	1.51E-02	1.01E-05	0.11044123	3.59E-02	3.92E-03	2.18E-02	5.45E-03	2.32E-04	2.83E-04	1.51E-02	8.27E-02
4584	490863.09, 3859377.25	4.64E-02	2.14E-03	1.07E-02	5.13E-03	2.20E-04	1.10E-02	7.30E-06	0.07560699	2.52E-02	2.14E-03	1.07E-02	5.13E-03	2.20E-04	2.95E-04	1.10E-02	5.47E-02
4585	491363.09, 3859377.25	3.91E-02	1.27E-03	5.31E-03	4.12E-03	1.89E-04	7.05E-03	4.20E-06	0.057048	2.06E-02	1.27E-03	5.31E-03	4.12E-03	1.89E-04	2.95E-04	7.05E-03	3.88E-02
4586	491863.09, 3859377.25	3.24E-02	1.19E-03	5.64E-03	4.45E-03	1.99E-04	7.49E-03	4.98E-06	0.05139682	1.73E-02	1.19E-03	5.64E-03	4.45E-03	1.99E-04	3.11E-04	7.49E-03	3.65E-02
4587	492363.09, 3859377.25	2.85E-02	1.02E-03	4.80E-03	4.20E-03	1.90E-04	6.67E-03	4.49E-06	0.04534185	1.51E-02	1.02E-03	4.80E-03	4.20E-03	1.90E-04	3.04E-04	6.67E-03	3.23E-02
4588	492863.09, 3859377.25	2.54E-02	9.08E-04	4.29E-03	4.00E-03	1.81E-04	6.10E-03	4.14E-06	0.04084209	1.35E-02	9.08E-04	4.29E-03	4.00E-03	1.81E-04	2.91E-04	6.10E-03	2.92E-02
4589	493363.09, 3859377.25	2.31E-02	7.63E-04	3.40E-03	3.63E-03	1.67E-04	5.15E-03	3.49E-06	0.0361966	1.22E-02	7.63E-04	3.40E-03	3.63E-03	1.67E-04	2.75E-04	5.15E-03	2.56E-02
4590	493863.09, 3859377.25	2.10E-02	6.91E-04	2.99E-03	3.45E-03	1.58E-04	4.70E-03	3.18E-06	0.03298563	1.11E-02	6.91E-04	2.99E-03	3.45E-03	1.58E-04	2.64E-04	4.70E-03	2.33E-02
4591	494363.09, 3859377.25	1.94E-02	6.19E-04	2.54E-03	3.18E-03	1.47E-04	4.14E-03	2.76E-06	0.02997929	1.02E-02	6.19E-04	2.54E-03	3.18E-03	1.47E-04	2.51E-04	4.14E-03	2.11E-02
4592	494863.09, 3859377.25	1.97E-02	5.32E-04	1.99E-03	2.74E-03	1.31E-04	3.41E-03	2.19E-06	0.02853856	1.03E-02	5.32E-04	1.99E-03	2.74E-03	1.31E-04	2.27E-04	3.41E-03	1.93E-02
4593	495363.09, 3859377.25	1.63E-02	4.95E-04	1.79E-03	2.59E-03	1.24E-04	3.15E-03	2.00E-06	0.02448497	8.56E-03	4.95E-04	1.79E-03	2.59E-03	1.24E-04	2.17E-04	3.15E-03	1.69E-02
4594	495863.09, 3859377.25	1.50E-02	4.55E-04	1.57E-03	2.38E-03	1.15E-04	2.83E-03	1.76E-06	0.0223062	7.84E-03	4.55E-04	1.57E-03	2.38E-03	1.15E-04	2.04E-04	2.83E-03	1.54E-02
4595	496363.09, 3859377.25	1.40E-02	4.39E-04	1.48E-03	2.33E-03	1.12E-04	2.71E-03	1.68E-06	0.02106507	7.35E-03	4.39E-04	1.48E-03	2.33E-03	1.12E-04	2.01E-04	2.71E-03	1.46E-02
4596	496863.09, 3859377.25	1.28E-02	4.04E-04	1.27E-03	2.08E-03	1.02E-04	2.39E-03	1.43E-06	0.01909141	6.75E-03	4.04E-04	1.27E-03	2.08E-03	1.02E-04	1.85E-04	2.39E-03	1.32E-02
4597	497363.09, 3859377.25	1.23E-02	4.04E-04	1.25E-03	2.12E-03	1.03E-04	2.41E-03	1.44E-06	0.01859818	6.49E-03	4.04E-04	1.25E-03	2.12E-03	1.03E-04	1.89E-04	2.41E-03	1.30E-02
4598	497863.09, 3859377.25	1.19E-02	4.19E-04	1.30E-03	2.24E-03	1.06E-04	2.54E-03	1.51E-06	0.0185045	6.30E-03	4.19E-04	1.30E-03	2.24E-03	1.06E-04	1.96E-04	2.54E-03	1.31E-02
4599	498363.09, 3859377.25	1.14E-02	4.33E-04	1.32E-03	2.27E-03	1.05E-04	2.61E-03	1.51E-06	0.01815768	6.09E-03	4.33E-04	1.32E-03	2.27E-03	1.05E-04	1.96E-04	2.61E-03	1.30E-02
4600	471363.09, 3859877.25	2.36E-03	9.21E-05	2.82E-04	4.23E-04	2.01E-05	3.02E-04	8.51E-08	0.00347895	1.26E-03	9.21E-05	2.82E-04	4.23E-04	2.01E-05	3.58E-05	3.02E-04	2.42E-03
4601	471863.09, 3859877.25	2.45E-03	9.46E-05	2.91E-04	4.52E-04	2.13E-05	3.20E-04	8.95E-08	0.00362811	1.31E-03	9.46E-05	2.91E-04	4.52E-04	2.13E-05	3.81E-05	3.20E-04	2.52E-03
4602	472363.09, 3859877.25	2.54E-03	9.63E-05	2.99E-04	4.76E-04	2.24E-05	3.34E-04	9.37E-08	0.00376664	1.35E-03	9.63E-05	2.99E-04	4.76E-04	2.24E-05	4.05E-05	3.34E-04	2.62E-03
4603	472863.09, 3859877.25	2.62E-03	9.92E-05	3.11E-04	5.15E-04	2.39E-05	3.63E-04	9.97E-08	0.00392875	1.40E-03	9.92E-05	3.11E-04	5.15E-04	2.39E-05	4.33E-05	3.63E-04	2.75E-03
4604	473363.09, 3859877.25	2.71E-03	1.02E-04	3.22E-04	5.52E-04	2.56E-05	3.93E-04	1.06E-07	0.00410148	1.44E-03	1.02E-04	3.22E-04	5.52E-04	2.56E-05	4.63E-05	3.93E-04	2.88E-03
4605	473863.09, 3859877.25	2.83E-03	1.04E-04	3.31E-04	5.84E-04	2.73E-05	4.17E-04	1.11E-07	0.00428865	1.50E-03	1.04E-04	3.31E-04	5.84E-04	2.73E-05	4.92E-05	4.17E-04	3.01E-03
4606	474363.09, 3859877.25	2.95E-03	1.01E-04	3.21E-04	5.49E-04	2.76E-05	3.80E-04	1.08E-07	0.00433245	1.56E-03	1.01E-04	3.21E-04	5.49E-04	2.76E-05	4.99E-05	3.80E-04	2.99E-03
4607	474863.09, 3859877.25	2.98E-03	9.54E-05	2.92E-04	4.64E-04	2.59E-05	3.22E-04	9.88E-08	0.00417555	1.56E-03	9.54E-05	2.92E-04	4.64E-04	2.59E-05	4.70E-05	3.22E-04	2.81E-03
4608	475363.09, 3859877.25	2.75E-03	8.26E-05	2.07E-04	2.77E-04	1.72E-05	2.10E-04	7.11E-08	0.00353806	1.44E-03	8.26E-05	2.07E-04	2.77E-04	1.72E-05	3.10E-05	2.10E-04	2.26E-03
4609	475863.09, 3859877.25	2.11E-03	7.01E-05	1.04E-04	1.46E-04	8.41E-06	1.37E-04	4.16E-08	0.00257308	1.11E-03	7.01E-05	1.04E-04	1.46E-04	8.41E-06	1.50E-05	1.37E-04	1.59E-03
4610	476363.09, 3859877.25	1.75E-03	6.22E-05	5.55E-05	9.34E-05	4.94E-06	1.05E-04	2.75E-08	0.00206763	9.26E-04	6.22E-05	5.55E-05	9.34E-05	4.94E-06	8.82E-06	1.05E-04	1.26E-03
4611	476863.09, 3859877.25	1.87E-03	6.56E-05	6.63E-05	1.08E-04	5.84E-06	1.19E-04	3.14E-08	0.00222987	9.88E-04	6.56E-05	6.63E-05	1.08E-04	5.84E-06	1.04E-05	1.19E-04	1.36E-03
4612	477363.09, 3859877.25	1.96E-03	6.80E-05	7.14E-05	1.15E-04	6.38E-06	1.28E-04	3.37E-08	0.00234371	1.03E-03	6.80E-05	7.14E-05	1.15E-04	6.38E-06	1.14E-05	1.28E-04	1.43E-03
4613	477863.09, 3859877.25	2.64E-03	7.88E-05	1.41E-04	2.05E-04	1.25E-05	1.86E-04	5.66E-08	0.00326358	1.38E-03	7.88E-05	1.41E-04	2.05E-04	1.25E-05	2.24E-05	1.86E-04	2.03E-03
4614	478363.09, 3859877.25	3.55E-03	9.25E-05	2.30E-04	3.71E-04	2.36E-05	2.92E-04	9.17E-08	0.00456364	1.84E-03	9.25E-05	2.30E-04	3.71E-04	2.36E-05	4.39E-05	2.92E-04	2.89E-03
4615	478863.09, 3859877.25	4.21E-03	1.10E-04	3.12E-04	6.38E-04	3.76E-05	4.60E-04	1.34E-07	0.00576334	2.18E-03	1.10E-04	3.12E-04	6.38E-04	3.76E-05	7.24E-05	4.60E-04	3.81E-03
4616	479363.09, 3859877.25	4.65E-03	1.28E-04	3.79E-04	9.88E-04	5.06E-05	6.70E-04	1.80E-07	0.00686093	2.42E-03	1.28E-04	3.79E-04	9.88E-04	5.06E-05	9.70E-05	6.70E-04	4.73E-03
4617	479863.09, 3859877.25	4.86E-03	1.41E-04	4.14E-04	1.26E-03	5.89E-05	8.70E-04	2.15E-07	0.00759607	2.54E-03	1.41E-04	4.14E-04	1.26E-03	5.89E-05	1.10E-04	8.70E-04	5.39E-03
4618	480363.09, 3859877.25	5.02E-03	1.53E-04	4.40E-04	1.46E-03	6.54E-05	1.09E-03	2.45E-07	0.00823863	2.63E-03	1.53E-04	4.40E-04	1.46E-03	6.54E-05	1.19E-04	1.09E-03	5.97E-03
4619	480863.09, 3859877.25	5.20E-03	1.62E-04	4.60E-04	1.62E-03	7.10E-05	1.27E-03	2.71E-07	0.00878809	2.74E-03	1.62E-04	4.60E-04	1.62E-03	7.10E-05	1.29E-04	1.27E-03	6.45E-03
4620	481363.09, 3859877.25	5.40E-03	1.69E-04	4.73E-04	1.77E-03	7.71E-05	1.44E-03	2.98E-07	0.00932862	2.84E-03	1.69E-04	4.73E-04	1.77E-03	7.71E-05	1.38E-04	1.44E-03	6.91E-03
4621	481863.09, 3859877.25	5.66E-03	1.77E-04	4.85E-04	1.92E-03	8.33E-05	1.61E-03	3.28E-07	0.00992974	2.98E-03	1.77E-04	4.85E-04	1.92E-03	8.33E-05	1.48E-04	1.61E-03	7.40E-03
4622	482363.09, 3859877.25	5.97E-03	1.86E-04	5.02E-04	2.08E-03	8.95E-05	1.80E-03	3.66E-07	0.0106396	3.14E-03	1.86E-04	5.02E-04	2.08E-03	8.95E-05	1.61E-04	1.80E-03	7.97E-03
4623	482863.09, 3859877.25	6.27E-03	1.95E-04	5.22E-04	2.26E-03	9.63E-05	2.04E-03	4.14E-07	0.01137923	3.30E-03	1.95E-04	5.22E-04	2.26E-03	9.63E-05	1.74E-04	2.04E-03	8.58E-03
4624	483363.09, 3859877.25	6.56E-03	2.05E-04	5.51E-04	2.43E-03	1.03E-04	2.32E-03	4.73E-07	0.01217776	3.46E-03	2.05E-04	5.51E-04	2.43E-03	1.03E-04	1.88E-04	2.32E-03	9.26E-03
4625	483863.09, 3859877.25	6.71E-03	2.20E-04	5.90E-04	2.52E-03	1.04E-04	2.87E-03	5.43E-07	0.01301394	3.55E-03	2.20E-04	5.90E-04	2.52E-03	1.04E-04	1.91E-04	2.87E-03	1.00E-02
4626	484363.09, 3859877.25	7.26E-03	2.33E-04	6.28E-04	2.65E-03	1.10E-04	3.31E-03	6.27E-07	0.01418103	3.83E-03	2.33E-04	6.28E-04	2.65E-03	1.10E-04	1.99E-04	3.31E-03	1.10E-02
4627	484863.09, 3859877.25	8.06E-03	2.48E-04	6.76E-04	2.81E-03	1.16E-04	3.89E-03	7.44E-07	0.01580546	4.24E-03	2.48E-04	6.76E-04	2.81E-03	1.16E-04	2.04E-04	3.89E-03	1.22E-02
4628	485363.09, 3859877.25	9.35E-03	2.69E-04	7.39E-04	2.96E-03	1.23E-04	4.71E-03	8.70E-07	0.01815176	4.90E-03	2.69E-04	7.39E-04	2.96E-03	1.23E-04	2.01E-04	4.71E-03	1.39E-02
4629	485863.09, 3859877.25	1.13E-02	2.97E-04	8.28E-04	3.08E-03	1.29E-04	5.96E-03	1.03E-06	0.02157586	5.87E-03	2.97E-04	8.28E-04	3.08E-03	1.29E-04	1.97E-04	5.96E-03	1.64E-02
4630	486363.09, 3859877.25	1.39E-02	3.32E-04	9.57E-04	3.19E-03	1.33E-04	7.69E-03	1.25E-06	0.02623919	7.21E-03	3.32E-04	9.57E-04	3.19E-03	1.33E-04	1.95E-04	7.69E-03	1.97E-02
4631	486863.09, 3859877.25	1.83E-02	3.73E-04	1.16E-03	3.31E-03	1.38E-04	1.02E-02	1.55E-06	0.03348968	9.39E-03	3.73E-04	1.16E-03	3.31E-03	1.38E-04	1.94E-04	1.02E-02	2.48E-02
4632	487363.09, 3859877.25	3.20E-02	4.18E-04	1.41E-03	3.33E-03	1.40E-04	1.50E-02	1.85E-06	0.05224245	1.61E-02	4.18E-04	1.41E-03	3.33E-03	1.40E-04	1.97E-04	1.50E-02	3.66E-02
4633	487863.09, 3859877.25	1.31E-01	4.79E-04	1.85E-03	3.47E-03	1.49E-04	6.21E-02	2.37E-06	0.19863735	6.42E-02	4.79E-04	1.85E-03	3.47E-03	1.49E-04	2.08E-04	6.21E-02	1.32E-01
4634	488363.09, 3859877.25	1.37E-01	5.53E-04	2.52E-03	3.53E-03	1.50E-04	7.69E-02	3.05E-06	0.22103251	6.76E-02	5.53E-04	2.52E-03	3.53E-03	1.50E-04	2.20E-04	7.69E-02	1.51E-01

4635	488863.09, 3859877.25	7.62E-02	6.91E-04	3.71E-03	3.67E-03	1.54E-04	3.37E-02	4.39E-06	0.11804711	3.79E-02	6.91E-04	3.71E-03	3.67E-03	1.54E-04	2.40E-04	3.37E-02	8.01E-02
4636	489363.09, 3859877.25	6.17E-02	9.42E-04	5.64E-03	3.71E-03	1.59E-04	2.44E-02	7.86E-06	0.09655312	3.12E-02	9.42E-04	5.64E-03	3.71E-03	1.59E-04	2.35E-04	2.44E-02	6.63E-02
4637	489863.09, 3859877.25	4.75E-02	1.49E-03	9.47E-03	3.53E-03	1.60E-04	1.91E-02	5.44E-06	0.08121465	2.50E-02	1.49E-03	9.47E-03	3.53E-03	1.60E-04	2.40E-04	1.91E-02	5.89E-02
4638	490363.09, 3859877.25	4.60E-02	3.36E-03	1.85E-02	3.46E-03	1.50E-04	1.55E-02	4.82E-06	0.08691028	2.65E-02	3.36E-03	1.85E-02	3.46E-03	1.50E-04	2.24E-04	1.55E-02	6.77E-02
4639	490863.09, 3859877.25	1.53E-01	2.70E-02	9.11E-02	3.64E-03	1.51E-04	1.24E-02	4.95E-06	0.28688372	1.06E-01	2.70E-02	9.11E-02	3.64E-03	1.51E-04	2.16E-04	1.24E-02	2.40E-01
4640	491363.09, 3859877.25	6.42E-02	4.97E-03	2.92E-02	3.66E-03	1.51E-04	1.04E-02	4.53E-06	0.11253753	3.73E-02	4.97E-03	2.92E-02	3.66E-03	1.51E-04	2.17E-04	1.04E-02	8.59E-02
4641	491863.09, 3859877.25	3.75E-02	2.51E-03	1.51E-02	3.60E-03	1.51E-04	8.80E-03	3.85E-06	0.06767852	2.13E-02	2.51E-03	1.51E-02	3.60E-03	1.51E-04	2.26E-04	8.80E-03	5.17E-02
4642	492363.09, 3859877.25	2.87E-02	1.70E-03	1.02E-02	3.50E-03	1.49E-04	7.59E-03	3.46E-06	0.05180995	1.61E-02	1.70E-03	1.02E-02	3.50E-03	1.49E-04	2.37E-04	7.59E-03	3.94E-02
4643	492863.09, 3859877.25	2.39E-02	1.25E-03	7.04E-03	3.34E-03	1.46E-04	6.43E-03	3.13E-06	0.04213227	1.32E-02	1.25E-03	7.04E-03	3.34E-03	1.46E-04	2.42E-04	6.43E-03	3.16E-02
4644	493363.09, 3859877.25	2.08E-02	1.03E-03	5.43E-03	3.18E-03	1.41E-04	5.65E-03	2.88E-06	0.03622379	1.14E-02	1.03E-03	5.43E-03	3.18E-03	1.41E-04	2.37E-04	5.65E-03	2.71E-02
4645	493863.09, 3859877.25	1.86E-02	8.82E-04	4.31E-03	3.03E-03	1.35E-04	5.02E-03	2.65E-06	0.03198155	1.01E-02	8.82E-04	4.31E-03	3.03E-03	1.35E-04	2.29E-04	5.02E-03	2.37E-02
4646	494363.09, 3859877.25	1.73E-02	7.59E-04	3.39E-03	2.86E-03	1.29E-04	4.39E-03	2.39E-06	0.02886362	9.38E-03	7.59E-04	3.39E-03	2.86E-03	1.29E-04	2.19E-04	4.39E-03	2.11E-02
4647	494863.09, 3859877.25	1.58E-02	6.93E-04	2.89E-03	2.74E-03	1.24E-04	4.02E-03	2.23E-06	0.02624545	8.54E-03	6.93E-04	2.89E-03	2.74E-03	1.24E-04	2.11E-04	4.02E-03	1.92E-02
4648	495363.09, 3859877.25	1.46E-02	6.27E-04	2.42E-03	2.60E-03	1.18E-04	3.61E-03	2.03E-06	0.02392948	7.86E-03	6.27E-04	2.42E-03	2.60E-03	1.18E-04	2.04E-04	3.61E-03	1.74E-02
4649	495863.09, 3859877.25	1.36E-02	5.70E-04	2.04E-03	2.45E-03	1.12E-04	3.24E-03	1.84E-06	0.02200271	7.31E-03	5.70E-04	2.04E-03	2.45E-03	1.12E-04	1.96E-04	3.24E-03	1.59E-02
4650	496363.09, 3859877.25	1.26E-02	5.06E-04	1.66E-03	2.22E-03	1.04E-04	2.79E-03	1.58E-06	0.01993601	6.78E-03	5.06E-04	1.66E-03	2.22E-03	1.04E-04	1.84E-04	2.79E-03	1.42E-02
4651	496863.09, 3859877.25	1.11E-02	4.21E-04	1.20E-03	1.71E-03	8.37E-05	2.08E-03	1.12E-06	0.01661381	5.93E-03	4.21E-04	1.20E-03	1.71E-03	8.37E-05	1.49E-04	2.08E-03	1.16E-02
4652	497363.09, 3859877.25	1.11E-02	4.46E-04	1.32E-03	1.99E-03	9.42E-05	2.38E-03	1.34E-06	0.01736545	5.97E-03	4.46E-04	1.32E-03	1.99E-03	9.42E-05	1.69E-04	2.38E-03	1.24E-02
4653	497863.09, 3859877.25	1.08E-02	4.81E-04	1.44E-03	2.14E-03	9.73E-05	2.61E-03	1.46E-06	0.01757202	5.85E-03	4.81E-04	1.44E-03	2.14E-03	9.73E-05	1.75E-04	2.61E-03	1.28E-02
4654	498363.09, 3859877.25	1.02E-02	5.00E-04	1.44E-03	2.12E-03	9.39E-05	2.65E-03	1.41E-06	0.01702582	5.59E-03	5.00E-04	1.44E-03	2.12E-03	9.39E-05	1.73E-04	2.65E-03	1.26E-02
4655	471363.09, 3860377.25	2.29E-03	9.00E-05	2.70E-04	4.32E-04	2.02E-05	3.15E-04	9.01E-08	0.00341804	1.23E-03	9.00E-05	2.70E-04	4.32E-04	2.02E-05	3.66E-05	3.15E-04	2.39E-03
4656	471863.09, 3860377.25	2.38E-03	9.17E-05	2.79E-04	4.57E-04	2.13E-05	3.33E-04	9.41E-08	0.00355998	1.27E-03	9.17E-05	2.79E-04	4.57E-04	2.13E-05	3.88E-05	3.33E-04	2.49E-03
4657	472363.09, 3860377.25	2.45E-03	9.42E-05	2.88E-04	4.86E-04	2.26E-05	3.57E-04	9.86E-08	0.00370252	1.31E-03	9.42E-05	2.88E-04	4.86E-04	2.26E-05	4.12E-05	3.57E-04	2.60E-03
4658	472863.09, 3860377.25	2.53E-03	9.67E-05	2.98E-04	5.19E-04	2.41E-05	3.86E-04	1.04E-07	0.0038539	1.35E-03	9.67E-05	2.98E-04	5.19E-04	2.41E-05	4.38E-05	3.86E-04	2.72E-03
4659	473363.09, 3860377.25	2.62E-03	9.92E-05	3.07E-04	5.49E-04	2.56E-05	4.13E-04	1.09E-07	0.00401356	1.40E-03	9.92E-05	3.07E-04	5.49E-04	2.56E-05	4.67E-05	4.13E-04	2.84E-03
4660	473863.09, 3860377.25	2.72E-03	1.01E-04	3.14E-04	5.75E-04	2.71E-05	4.32E-04	1.13E-07	0.00417133	1.45E-03	1.01E-04	3.14E-04	5.75E-04	2.71E-05	5.03E-05	4.32E-04	2.95E-03
4661	474363.09, 3860377.25	2.86E-03	1.01E-04	3.16E-04	5.84E-04	2.82E-05	4.29E-04	1.15E-07	0.00431807	1.52E-03	1.01E-04	3.16E-04	5.84E-04	2.82E-05	5.38E-05	4.29E-04	3.03E-03
4662	474863.09, 3860377.25	2.99E-03	1.00E-04	3.11E-04	5.68E-04	2.86E-05	4.14E-04	1.13E-07	0.00441419	1.58E-03	1.00E-04	3.11E-04	5.68E-04	2.86E-05	5.64E-05	4.14E-04	3.06E-03
4663	475363.09, 3860377.25	3.04E-03	9.50E-05	2.87E-04	4.97E-04	2.70E-05	3.62E-04	1.04E-07	0.0043129	1.60E-03	9.50E-05	2.87E-04	4.97E-04	2.70E-05	5.37E-05	3.62E-04	2.92E-03
4664	475863.09, 3860377.25	3.06E-03	9.00E-05	2.54E-04	4.05E-04	2.37E-05	3.00E-04	9.11E-08	0.00413027	1.60E-03	9.00E-05	2.54E-04	4.05E-04	2.37E-05	4.64E-05	3.00E-04	2.72E-03
4665	476363.09, 3860377.25	2.94E-03	8.30E-05	2.10E-04	3.10E-04	1.90E-05	2.40E-04	7.57E-08	0.00379854	1.53E-03	8.30E-05	2.10E-04	3.10E-04	1.90E-05	3.61E-05	2.40E-04	2.43E-03
4666	476863.09, 3860377.25	2.88E-03	8.09E-05	1.90E-04	2.77E-04	1.73E-05	2.22E-04	6.98E-08	0.00366516	1.50E-03	8.09E-05	1.90E-04	2.77E-04	1.73E-05	3.20E-05	2.22E-04	2.32E-03
4667	477363.09, 3860377.25	2.28E-03	7.18E-05	1.16E-04	1.68E-04	1.01E-05	1.62E-04	4.65E-08	0.00280688	1.20E-03	7.18E-05	1.16E-04	1.68E-04	1.01E-05	1.83E-05	1.62E-04	1.74E-03
4668	477863.09, 3860377.25	2.61E-03	7.72E-05	1.47E-04	2.13E-04	1.32E-05	1.92E-04	5.74E-08	0.00325072	1.36E-03	7.72E-05	1.47E-04	2.13E-04	1.32E-05	2.42E-05	1.92E-04	2.03E-03
4669	478363.09, 3860377.25	3.51E-03	9.17E-05	2.41E-04	4.15E-04	2.58E-05	3.17E-04	9.55E-08	0.00459889	1.82E-03	9.17E-05	2.41E-04	4.15E-04	2.58E-05	4.83E-05	3.17E-04	2.96E-03
4670	478863.09, 3860377.25	3.98E-03	1.06E-04	3.03E-04	6.53E-04	3.70E-05	4.50E-04	1.31E-07	0.00552795	2.06E-03	1.06E-04	3.03E-04	6.53E-04	3.70E-05	6.97E-05	4.50E-04	3.68E-03
4671	479363.09, 3860377.25	4.35E-03	1.22E-04	3.58E-04	9.47E-04	4.75E-05	6.37E-04	1.73E-07	0.0064577	2.26E-03	1.22E-04	3.58E-04	9.47E-04	4.75E-05	8.82E-05	6.37E-04	4.46E-03
4672	479863.09, 3860377.25	4.48E-03	1.36E-04	3.95E-04	1.19E-03	5.47E-05	8.61E-04	2.11E-07	0.00711328	2.35E-03	1.36E-04	3.95E-04	1.19E-03	5.47E-05	9.91E-05	8.61E-04	5.08E-03
4673	480363.09, 3860377.25	4.57E-03	1.46E-04	4.19E-04	1.35E-03	5.96E-05	1.06E-03	2.41E-07	0.00760224	2.40E-03	1.46E-04	4.19E-04	1.35E-03	5.96E-05	1.06E-04	1.06E-03	5.55E-03
4674	480863.09, 3860377.25	4.68E-03	1.54E-04	4.36E-04	1.47E-03	6.40E-05	1.22E-03	2.69E-07	0.0080207	2.47E-03	1.54E-04	4.36E-04	1.47E-03	6.40E-05	1.12E-04	1.22E-03	5.93E-03
4675	481363.09, 3860377.25	4.84E-03	1.60E-04	4.46E-04	1.58E-03	6.88E-05	1.36E-03	2.99E-07	0.00845804	2.56E-03	1.60E-04	4.46E-04	1.58E-03	6.88E-05	1.19E-04	1.36E-03	6.29E-03
4676	481863.09, 3860377.25	5.02E-03	1.69E-04	4.61E-04	1.70E-03	7.34E-05	1.53E-03	3.34E-07	0.00895881	2.66E-03	1.69E-04	4.61E-04	1.70E-03	7.34E-05	1.30E-04	1.53E-03	6.72E-03
4677	482363.09, 3860377.25	5.27E-03	1.77E-04	4.76E-04	1.82E-03	7.81E-05	1.69E-03	3.73E-07	0.0095078	2.79E-03	1.77E-04	4.76E-04	1.82E-03	7.81E-05	1.41E-04	1.69E-03	7.17E-03
4678	482863.09, 3860377.25	5.50E-03	1.83E-04	4.93E-04	1.93E-03	8.34E-05	1.86E-03	4.20E-07	0.01005123	2.91E-03	1.83E-04	4.93E-04	1.93E-03	8.34E-05	1.50E-04	1.86E-03	7.61E-03
4679	483363.09, 3860377.25	5.67E-03	1.94E-04	5.21E-04	2.05E-03	8.79E-05	2.14E-03	4.84E-07	0.01066515	3.01E-03	1.94E-04	5.21E-04	2.05E-03	8.79E-05	1.60E-04	2.14E-03	8.16E-03
4680	483863.09, 3860377.25	5.95E-03	2.02E-04	5.57E-04	2.15E-03	9.30E-05	2.39E-03	5.60E-07	0.01134492	3.15E-03	2.02E-04	5.57E-04	2.15E-03	9.30E-05	1.69E-04	2.39E-03	8.72E-03
4681	484363.09, 3860377.25	6.14E-03	2.14E-04	5.99E-04	2.18E-03	9.34E-05	2.80E-03	6.22E-07	0.01202247	3.26E-03	2.14E-04	5.99E-04	2.18E-03	9.34E-05	1.67E-04	2.80E-03	9.31E-03
4682	484863.09, 3860377.25	6.61E-03	2.25E-04	6.48E-04	2.28E-03	9.72E-05	3.21E-03	7.02E-07	0.01306811	3.50E-03	2.25E-04	6.48E-04	2.28E-03	9.72E-05	1.68E-04	3.21E-03	1.01E-02
4683	485363.09, 3860377.25	7.32E-03	2.38E-04	7.09E-04	2.36E-03	1.00E-04	3.75E-03	8.13E-07	0.01447306	3.86E-03	2.38E-04	7.09E-04	2.36E-03	1.00E-04	1.62E-04	3.75E-03	1.12E-02
4684	485863.09, 3860377.25	8.48E-03	2.56E-04	7.97E-04	2.43E-03	1.04E-04	4.50E-03	9.40E-07	0.0165736	4.46E-03	2.56E-04	7.97E-04	2.43E-03	1.04E-04	1.60E-04	4.50E-03	1.27E-02
4685	486363.09, 3860377.25	1.01E-02	2.79E-04	9.08E-04	2.46E-03	1.05E-04	5.45E-03	1.06E-06	0.01926787	5.26E-03	2.79E-04	9.08E-04	2.46E-03	1.05E-04	1.56E-04	5.45E-03	1.46E-02
4686	486863.09, 3860377.25	1.29E-02	3.05E-04	1.05E-03	2.47E-03	1.06E-04	6.86E-03	1.22E-06	0.02367452	6.66E-03	3.05E-04	1.05E-03	2.47E-03	1.06E-04	1.54E-04	6.86E-03	1.76E-02
4687	487363.09, 3860377.25	2.20E-02	3.36E-04	1.23E-03	2.48E-03	1.07E-04	1.05E-02	1.41E-06	0.03666829	1.11E-02	3.36E-04	1.23E-03	2.48E-03	1.07E-04	1.56E-04	1.05E-02	2.60E-02
4688	487863.09, 3860377.25	1.15E-01	3.79E-04	1.52E-03	2.53E-03	1.10E-04	5.25E-02	1.72E-06	0.1720548	5.65E-02	3.79E-04	1.52E-03	2.53E-03	1.10E-04	1.63E-04	5.25E-02	1.14E-01

4689	488363.09, 3860377.25	1.45E-01	4.30E-04	1.93E-03	2.58E-03	1.11E-04	7.47E-02	2.13E-06	0.22463219	7.11E-02	4.30E-04	1.93E-03	2.58E-03	1.11E-04	1.71E-04	7.47E-02	1.51E-01
4690	488863.09, 3860377.25	1.50E-01	4.97E-04	2.46E-03	2.65E-03	1.12E-04	8.16E-02	2.79E-06	0.23745381	7.37E-02	4.97E-04	2.46E-03	2.65E-03	1.12E-04	1.82E-04	8.16E-02	1.61E-01
4691	489363.09, 3860377.25	7.16E-02	5.87E-04	3.15E-03	2.72E-03	1.14E-04	3.67E-02	5.91E-06	0.1148685	3.56E-02	5.87E-04	3.15E-03	2.72E-03	1.14E-04	1.79E-04	3.67E-02	7.90E-02
4692	489863.09, 3860377.25	3.77E-02	7.09E-04	4.18E-03	2.76E-03	1.18E-04	1.92E-02	3.37E-06	0.06467784	1.92E-02	7.09E-04	4.18E-03	2.76E-03	1.18E-04	1.82E-04	1.92E-02	4.64E-02
4693	490363.09, 3860377.25	2.79E-02	9.11E-04	5.58E-03	2.62E-03	1.17E-04	1.36E-02	2.90E-06	0.05080942	1.47E-02	9.11E-04	5.58E-03	2.62E-03	1.17E-04	1.88E-04	1.36E-02	3.78E-02
4694	490863.09, 3860377.25	2.51E-02	1.38E-03	8.23E-03	2.50E-03	1.11E-04	1.07E-02	2.67E-06	0.04808133	1.39E-02	1.38E-03	8.23E-03	2.50E-03	1.11E-04	1.79E-04	1.07E-02	3.71E-02
4695	491363.09, 3860377.25	3.47E-02	4.15E-03	1.83E-02	2.53E-03	1.06E-04	8.85E-03	2.45E-06	0.06860139	2.20E-02	4.15E-03	1.83E-02	2.53E-03	1.06E-04	1.67E-04	8.85E-03	5.61E-02
4696	491863.09, 3860377.25	4.96E-02	7.32E-03	3.66E-02	2.62E-03	1.07E-04	7.58E-03	2.38E-06	0.10383814	3.29E-02	7.32E-03	3.66E-02	2.62E-03	1.07E-04	1.66E-04	7.58E-03	8.73E-02
4697	492363.09, 3860377.25	2.61E-02	2.91E-03	1.54E-02	2.70E-03	1.11E-04	6.66E-03	2.36E-06	0.05388676	1.62E-02	2.91E-03	1.54E-02	2.70E-03	1.11E-04	1.72E-04	6.66E-03	4.42E-02
4698	492863.09, 3860377.25	2.18E-02	1.95E-03	9.10E-03	2.67E-03	1.11E-04	5.92E-03	2.23E-06	0.04160351	1.30E-02	1.95E-03	9.10E-03	2.67E-03	1.11E-04	1.80E-04	5.92E-03	3.29E-02
4699	493363.09, 3860377.25	1.74E-02	1.40E-03	6.15E-03	2.64E-03	1.13E-04	5.26E-03	2.13E-06	0.03299639	1.02E-02	1.40E-03	6.15E-03	2.64E-03	1.13E-04	1.90E-04	5.26E-03	2.60E-02
4700	493863.09, 3860377.25	1.55E-02	1.20E-03	4.78E-03	2.55E-03	1.10E-04	4.82E-03	2.01E-06	0.028944	9.01E-03	1.20E-03	4.78E-03	2.55E-03	1.10E-04	1.91E-04	4.82E-03	2.27E-02
4701	494363.09, 3860377.25	1.42E-02	1.00E-03	3.77E-03	2.48E-03	1.08E-04	4.34E-03	1.92E-06	0.02588322	8.13E-03	1.00E-03	3.77E-03	2.48E-03	1.08E-04	1.89E-04	4.34E-03	2.00E-02
4702	494863.09, 3860377.25	1.30E-02	9.24E-04	3.19E-03	2.38E-03	1.05E-04	4.03E-03	1.81E-06	0.02360795	7.45E-03	9.24E-04	3.19E-03	2.38E-03	1.05E-04	1.83E-04	4.03E-03	1.83E-02
4703	495363.09, 3860377.25	1.22E-02	8.15E-04	2.67E-03	2.30E-03	1.01E-04	3.67E-03	1.72E-06	0.02176014	6.94E-03	8.15E-04	2.67E-03	2.30E-03	1.01E-04	1.78E-04	3.67E-03	1.67E-02
4704	495863.09, 3860377.25	1.16E-02	6.91E-04	2.14E-03	2.18E-03	9.79E-05	3.20E-03	1.58E-06	0.01993155	6.51E-03	6.91E-04	2.14E-03	2.18E-03	9.79E-05	1.72E-04	3.20E-03	1.50E-02
4705	496363.09, 3860377.25	1.11E-02	6.03E-04	1.72E-03	2.03E-03	9.32E-05	2.77E-03	1.41E-06	0.01826886	6.12E-03	6.03E-04	1.72E-03	2.03E-03	9.32E-05	1.65E-04	2.77E-03	1.35E-02
4706	496863.09, 3860377.25	1.05E-02	5.46E-04	1.45E-03	1.88E-03	8.78E-05	2.45E-03	1.26E-06	0.01689547	5.77E-03	5.46E-04	1.45E-03	1.88E-03	8.78E-05	1.58E-04	2.45E-03	1.23E-02
4707	497363.09, 3860377.25	9.79E-03	4.88E-04	1.21E-03	1.69E-03	8.07E-05	2.11E-03	1.09E-06	0.01536315	5.36E-03	4.88E-04	1.21E-03	1.69E-03	8.07E-05	1.47E-04	2.11E-03	1.11E-02
4708	497863.09, 3860377.25	9.61E-03	5.17E-04	1.32E-03	1.85E-03	8.46E-05	2.32E-03	1.21E-06	0.0157029	5.31E-03	5.17E-04	1.32E-03	1.85E-03	8.46E-05	1.53E-04	2.32E-03	1.16E-02
4709	498363.09, 3860377.25	9.18E-03	5.50E-04	1.36E-03	1.88E-03	8.30E-05	2.43E-03	1.23E-06	0.01548398	5.14E-03	5.50E-04	1.36E-03	1.88E-03	8.30E-05	1.52E-04	2.43E-03	1.16E-02
4710	471363.09, 3860877.25	2.23E-03	8.84E-05	2.62E-04	4.37E-04	2.02E-05	3.31E-04	8.95E-08	0.00337119	1.19E-03	8.84E-05	2.62E-04	4.37E-04	2.02E-05	3.71E-05	3.31E-04	2.37E-03
4711	471863.09, 3860877.25	2.29E-03	9.00E-05	2.70E-04	4.61E-04	2.14E-05	3.52E-04	9.30E-08	0.00348751	1.23E-03	9.00E-05	2.70E-04	4.61E-04	2.14E-05	3.92E-05	3.52E-04	2.46E-03
4712	472363.09, 3860877.25	2.37E-03	9.21E-05	2.78E-04	4.85E-04	2.26E-05	3.73E-04	9.66E-08	0.00361896	1.27E-03	9.21E-05	2.78E-04	4.85E-04	2.26E-05	4.17E-05	3.73E-04	2.56E-03
4713	472863.09, 3860877.25	2.46E-03	9.42E-05	2.87E-04	5.12E-04	2.39E-05	3.98E-04	1.01E-07	0.00377136	1.31E-03	9.42E-05	2.87E-04	5.12E-04	2.39E-05	4.47E-05	3.98E-04	2.67E-03
4714	473363.09, 3860877.25	2.55E-03	9.63E-05	2.94E-04	5.37E-04	2.52E-05	4.19E-04	1.05E-07	0.00391629	1.36E-03	9.63E-05	2.94E-04	5.37E-04	2.52E-05	4.81E-05	4.19E-04	2.78E-03
4715	473863.09, 3860877.25	2.65E-03	9.79E-05	3.02E-04	5.62E-04	2.63E-05	4.37E-04	1.09E-07	0.00407066	1.41E-03	9.79E-05	3.02E-04	5.62E-04	2.63E-05	5.16E-05	4.37E-04	2.88E-03
4716	474363.09, 3860877.25	2.76E-03	9.96E-05	3.08E-04	5.85E-04	2.75E-05	4.52E-04	1.12E-07	0.00423198	1.47E-03	9.96E-05	3.08E-04	5.85E-04	2.75E-05	5.48E-05	4.52E-04	2.99E-03
4717	474863.09, 3860877.25	2.87E-03	1.01E-04	3.14E-04	6.12E-04	2.88E-05	4.74E-04	1.16E-07	0.00440375	1.52E-03	1.01E-04	3.14E-04	6.12E-04	2.88E-05	5.74E-05	4.74E-04	3.11E-03
4718	475363.09, 3860877.25	3.01E-03	1.01E-04	3.13E-04	6.17E-04	2.96E-05	4.67E-04	1.16E-07	0.00453366	1.59E-03	1.01E-04	3.13E-04	6.17E-04	2.96E-05	5.89E-05	4.67E-04	3.17E-03
4719	475863.09, 3860877.25	3.12E-03	9.92E-05	3.05E-04	5.91E-04	2.97E-05	4.34E-04	1.13E-07	0.00457953	1.64E-03	9.92E-05	3.05E-04	5.91E-04	2.97E-05	5.82E-05	4.34E-04	3.16E-03
4720	476363.09, 3860877.25	3.16E-03	9.50E-05	2.83E-04	5.28E-04	2.85E-05	3.82E-04	1.06E-07	0.00447891	1.65E-03	9.50E-05	2.83E-04	5.28E-04	2.85E-05	5.47E-05	3.82E-04	3.02E-03
4721	476863.09, 3860877.25	3.23E-03	9.33E-05	2.73E-04	5.04E-04	2.82E-05	3.63E-04	1.05E-07	0.00448802	1.68E-03	9.33E-05	2.73E-04	5.04E-04	2.82E-05	5.37E-05	3.63E-04	3.00E-03
4722	477363.09, 3860877.25	3.34E-03	9.46E-05	2.74E-04	5.22E-04	2.94E-05	3.72E-04	1.09E-07	0.00463209	1.74E-03	9.46E-05	2.74E-04	5.22E-04	2.94E-05	5.60E-05	3.72E-04	3.09E-03
4723	477863.09, 3860877.25	3.33E-03	9.04E-05	2.47E-04	4.43E-04	2.65E-05	3.23E-04	9.97E-08	0.0044602	1.73E-03	9.04E-05	2.47E-04	4.43E-04	2.65E-05	4.99E-05	3.23E-04	2.91E-03
4724	478363.09, 3860877.25	2.79E-03	7.88E-05	1.66E-04	2.54E-04	1.60E-05	2.19E-04	6.82E-08	0.00352721	1.45E-03	7.88E-05	1.66E-04	2.54E-04	1.60E-05	2.98E-05	2.19E-04	2.22E-03
4725	478863.09, 3860877.25	3.72E-03	1.00E-04	2.82E-04	6.06E-04	3.41E-05	4.19E-04	1.27E-07	0.00516179	1.93E-03	1.00E-04	2.82E-04	6.06E-04	3.41E-05	6.40E-05	4.19E-04	3.44E-03
4726	479363.09, 3860877.25	4.04E-03	1.17E-04	3.41E-04	9.07E-04	4.44E-05	6.24E-04	1.74E-07	0.00606942	2.11E-03	1.17E-04	3.41E-04	9.07E-04	4.44E-05	8.01E-05	6.24E-04	4.22E-03
4727	479863.09, 3860877.25	4.10E-03	1.29E-04	3.76E-04	1.11E-03	5.02E-05	8.34E-04	2.15E-07	0.00659813	2.15E-03	1.29E-04	3.76E-04	1.11E-03	5.02E-05	8.73E-05	8.34E-04	4.74E-03
4728	480363.09, 3860877.25	4.14E-03	1.39E-04	3.99E-04	1.23E-03	5.41E-05	1.02E-03	2.48E-07	0.00698461	2.19E-03	1.39E-04	3.99E-04	1.23E-03	5.41E-05	9.29E-05	1.02E-03	5.12E-03
4729	480863.09, 3860877.25	4.23E-03	1.44E-04	4.11E-04	1.31E-03	5.79E-05	1.15E-03	2.77E-07	0.00731455	2.24E-03	1.44E-04	4.11E-04	1.31E-03	5.79E-05	9.90E-05	1.15E-03	5.42E-03
4730	481363.09, 3860877.25	4.35E-03	1.51E-04	4.23E-04	1.41E-03	6.15E-05	1.30E-03	3.07E-07	0.00768731	2.30E-03	1.51E-04	4.23E-04	1.41E-03	6.15E-05	1.07E-04	1.30E-03	5.75E-03
4731	481863.09, 3860877.25	4.52E-03	1.58E-04	4.36E-04	1.49E-03	6.50E-05	1.42E-03	3.41E-07	0.00809057	2.40E-03	1.58E-04	4.36E-04	1.49E-03	6.50E-05	1.17E-04	1.42E-03	6.08E-03
4732	482363.09, 3860877.25	4.68E-03	1.64E-04	4.53E-04	1.58E-03	6.85E-05	1.58E-03	3.83E-07	0.0085325	2.49E-03	1.64E-04	4.53E-04	1.58E-03	6.85E-05	1.24E-04	1.58E-03	6.46E-03
4733	482863.09, 3860877.25	4.85E-03	1.70E-04	4.72E-04	1.66E-03	7.27E-05	1.73E-03	4.30E-07	0.00896508	2.58E-03	1.70E-04	4.72E-04	1.66E-03	7.27E-05	1.31E-04	1.73E-03	6.82E-03
4734	483363.09, 3860877.25	5.04E-03	1.78E-04	4.99E-04	1.74E-03	7.66E-05	1.89E-03	4.77E-07	0.00942753	2.68E-03	1.78E-04	4.99E-04	1.74E-03	7.66E-05	1.39E-04	1.89E-03	7.20E-03
4735	483863.09, 3860877.25	5.22E-03	1.87E-04	5.35E-04	1.81E-03	8.01E-05	2.08E-03	5.28E-07	0.0099237	2.78E-03	1.87E-04	5.35E-04	1.81E-03	8.01E-05	1.44E-04	2.08E-03	7.62E-03
4736	484363.09, 3860877.25	5.37E-03	1.97E-04	5.79E-04	1.87E-03	8.18E-05	2.37E-03	5.96E-07	0.01046371	2.86E-03	1.97E-04	5.79E-04	1.87E-03	8.18E-05	1.44E-04	2.37E-03	8.10E-03
4737	484863.09, 3860877.25	5.58E-03	2.05E-04	6.21E-04	1.88E-03	8.16E-05	2.68E-03	6.60E-07	0.01105585	2.97E-03	2.05E-04	6.21E-04	1.88E-03	8.16E-05	1.39E-04	2.68E-03	8.59E-03
4738	485363.09, 3860877.25	6.00E-03	2.15E-04	6.81E-04	1.94E-03	8.37E-05	3.06E-03	7.19E-07	0.01197404	3.19E-03	2.15E-04	6.81E-04	1.94E-03	8.37E-05	1.35E-04	3.06E-03	9.30E-03
4739	485863.09, 3860877.25	6.65E-03	2.30E-04	7.53E-04	1.99E-03	8.65E-05	3.52E-03	7.91E-07	0.0132372	3.53E-03	2.30E-04	7.53E-04	1.99E-03	8.65E-05	1.34E-04	3.52E-03	1.02E-02
4740	486363.09, 3860877.25	7.49E-03	2.46E-04	8.28E-04	1.97E-03	8.62E-05	4.04E-03	8.72E-07	0.01466137	3.95E-03	2.46E-04	8.28E-04	1.97E-03	8.62E-05	1.29E-04	4.04E-03	1.13E-02
4741	486863.09, 3860877.25	8.68E-03	2.65E-04	9.32E-04	1.95E-03	8.64E-05	4.85E-03	9.87E-07	0.01676922	4.56E-03	2.65E-04	9.32E-04	1.95E-03	8.64E-05	1.28E-04	4.85E-03	1.28E-02
4742	487363.09, 3860877.25	1.05E-02	2.85E-04	1.07E-03	1.95E-03	8.60E-05	6.22E-03	1.15E-06	0.02010954	5.46E-03	2.85E-04	1.07E-03	1.95E-03	8.60E-05	1.29E-04	6.22E-03	1.52E-02

4743	487863.09, 3860877.25	1.28E-02	3.09E-04	1.25E-03	1.95E-03	8.57E-05	7.88E-03	1.36E-06	0.02426516	6.61E-03	3.09E-04	1.25E-03	1.95E-03	8.57E-05	1.31E-04	7.88E-03	1.82E-02
4744	488363.09, 3860877.25	1.63E-02	3.42E-04	1.53E-03	2.03E-03	8.85E-05	9.85E-03	1.65E-06	0.03012966	8.36E-03	3.42E-04	1.53E-03	2.03E-03	8.85E-05	1.35E-04	9.85E-03	2.23E-02
4745	488863.09, 3860877.25	1.73E-02	3.76E-04	1.77E-03	2.03E-03	8.69E-05	1.05E-02	2.17E-06	0.03201559	8.88E-03	3.76E-04	1.77E-03	2.03E-03	8.69E-05	1.38E-04	1.05E-02	2.37E-02
4746	489363.09, 3860877.25	1.80E-02	4.23E-04	2.14E-03	2.11E-03	9.01E-05	1.04E-02	4.95E-06	0.03317271	9.29E-03	4.23E-04	2.14E-03	2.11E-03	9.01E-05	1.44E-04	1.04E-02	2.46E-02
4747	489863.09, 3860877.25	1.62E-02	4.88E-04	2.43E-03	2.11E-03	8.90E-05	9.27E-03	2.61E-06	0.03061436	8.49E-03	4.88E-04	2.43E-03	2.11E-03	8.90E-05	1.43E-04	9.27E-03	2.30E-02
4748	490363.09, 3860877.25	1.48E-02	5.87E-04	2.94E-03	2.13E-03	9.06E-05	8.18E-03	2.16E-06	0.02870768	7.91E-03	5.87E-04	2.94E-03	2.13E-03	9.06E-05	1.45E-04	8.18E-03	2.20E-02
4749	490863.09, 3860877.25	1.40E-02	7.55E-04	3.61E-03	2.05E-03	9.13E-05	7.18E-03	1.95E-06	0.02765202	7.72E-03	7.55E-04	3.61E-03	2.05E-03	9.13E-05	1.52E-04	7.18E-03	2.16E-02
4750	491363.09, 3860877.25	1.37E-02	1.09E-03	4.33E-03	1.95E-03	8.75E-05	6.39E-03	1.80E-06	0.02753374	8.00E-03	1.09E-03	4.33E-03	1.95E-03	8.75E-05	1.47E-04	6.39E-03	2.20E-02
4751	491863.09, 3860877.25	1.62E-02	2.37E-03	4.71E-03	1.94E-03	8.37E-05	5.75E-03	1.69E-06	0.0310464	1.08E-02	2.37E-03	4.71E-03	1.94E-03	8.37E-05	1.38E-04	5.75E-03	2.58E-02
4752	492363.09, 3860877.25	4.02E-02	1.28E-02	4.56E-03	1.96E-03	8.14E-05	5.10E-03	1.58E-06	0.06470704	3.51E-02	1.28E-02	4.56E-03	1.96E-03	8.14E-05	1.33E-04	5.10E-03	5.98E-02
4753	492863.09, 3860877.25	1.83E-02	3.77E-03	4.42E-03	2.03E-03	8.30E-05	4.68E-03	1.57E-06	0.03325347	1.35E-02	3.77E-03	4.42E-03	2.03E-03	8.30E-05	1.35E-04	4.68E-03	2.86E-02
4754	493363.09, 3860877.25	1.47E-02	2.37E-03	3.93E-03	2.10E-03	8.61E-05	4.36E-03	1.57E-06	0.02757099	1.01E-02	2.37E-03	3.93E-03	2.10E-03	8.61E-05	1.41E-04	4.36E-03	2.30E-02
4755	493863.09, 3860877.25	1.31E-02	1.85E-03	3.33E-03	2.08E-03	8.69E-05	4.02E-03	1.50E-06	0.02446974	8.63E-03	1.85E-03	3.33E-03	2.08E-03	8.69E-05	1.47E-04	4.02E-03	2.02E-02
4756	494363.09, 3860877.25	1.20E-02	1.56E-03	2.88E-03	2.05E-03	8.70E-05	3.74E-03	1.45E-06	0.02232487	7.75E-03	1.56E-03	2.88E-03	2.05E-03	8.70E-05	1.53E-04	3.74E-03	1.82E-02
4757	494863.09, 3860877.25	1.12E-02	1.33E-03	2.52E-03	2.01E-03	8.67E-05	3.50E-03	1.40E-06	0.02065257	7.08E-03	1.33E-03	2.52E-03	2.01E-03	8.67E-05	1.55E-04	3.50E-03	1.67E-02
4758	495363.09, 3860877.25	1.06E-02	1.16E-03	2.25E-03	1.96E-03	8.55E-05	3.28E-03	1.36E-06	0.01929004	6.56E-03	1.16E-03	2.25E-03	1.96E-03	8.55E-05	1.54E-04	3.28E-03	1.54E-02
4759	495863.09, 3860877.25	1.00E-02	1.05E-03	2.00E-03	1.90E-03	8.32E-05	3.07E-03	1.30E-06	0.01815069	6.17E-03	1.05E-03	2.00E-03	1.90E-03	8.32E-05	1.50E-04	3.07E-03	1.44E-02
4760	496363.09, 3860877.25	9.60E-03	9.01E-04	1.82E-03	1.86E-03	8.18E-05	2.87E-03	1.25E-06	0.01713006	5.78E-03	9.01E-04	1.82E-03	1.86E-03	8.18E-05	1.47E-04	2.87E-03	1.35E-02
4761	496863.09, 3860877.25	9.23E-03	7.34E-04	1.54E-03	1.78E-03	7.97E-05	2.54E-03	1.18E-06	0.01590722	5.39E-03	7.34E-04	1.54E-03	1.78E-03	7.97E-05	1.43E-04	2.54E-03	1.22E-02
4762	497363.09, 3860877.25	8.89E-03	6.89E-04	1.42E-03	1.73E-03	7.74E-05	2.41E-03	1.13E-06	0.01521363	5.17E-03	6.89E-04	1.42E-03	1.73E-03	7.74E-05	1.40E-04	2.41E-03	1.16E-02
4763	497863.09, 3860877.25	8.55E-03	6.31E-04	1.29E-03	1.67E-03	7.52E-05	2.24E-03	1.07E-06	0.01445657	4.94E-03	6.31E-04	1.29E-03	1.67E-03	7.52E-05	1.36E-04	2.24E-03	1.10E-02
4764	498363.09, 3860877.25	8.24E-03	6.38E-04	1.26E-03	1.65E-03	7.31E-05	2.24E-03	1.05E-06	0.0141064	4.79E-03	6.38E-04	1.26E-03	1.65E-03	7.31E-05	1.34E-04	2.24E-03	1.08E-02
4765	471363.09, 3861377.25	2.17E-03	8.67E-05	2.56E-04	4.36E-04	2.02E-05	3.46E-04	8.59E-08	0.00331729	1.16E-03	8.67E-05	2.56E-04	4.36E-04	2.02E-05	3.74E-05	3.46E-04	2.35E-03
4766	471863.09, 3861377.25	2.25E-03	8.84E-05	2.63E-04	4.56E-04	2.12E-05	3.64E-04	8.91E-08	0.00343827	1.20E-03	8.84E-05	2.63E-04	4.56E-04	2.12E-05	3.98E-05	3.64E-04	2.43E-03
4767	472363.09, 3861377.25	2.32E-03	9.00E-05	2.70E-04	4.76E-04	2.23E-05	3.82E-04	9.27E-08	0.00356028	1.24E-03	9.00E-05	2.70E-04	4.76E-04	2.23E-05	4.26E-05	3.82E-04	2.52E-03
4768	472863.09, 3861377.25	2.40E-03	9.21E-05	2.77E-04	5.01E-04	2.33E-05	4.04E-04	9.70E-08	0.0036928	1.28E-03	9.21E-05	2.77E-04	5.01E-04	2.33E-05	4.54E-05	4.04E-04	2.62E-03
4769	473363.09, 3861377.25	2.48E-03	9.38E-05	2.84E-04	5.24E-04	2.43E-05	4.25E-04	1.01E-07	0.00383211	1.32E-03	9.38E-05	2.84E-04	5.24E-04	2.43E-05	4.80E-05	4.25E-04	2.72E-03
4770	473863.09, 3861377.25	2.58E-03	9.54E-05	2.90E-04	5.46E-04	2.53E-05	4.41E-04	1.05E-07	0.00397875	1.37E-03	9.54E-05	2.90E-04	5.46E-04	2.53E-05	5.03E-05	4.41E-04	2.82E-03
4771	474363.09, 3861377.25	2.65E-03	9.71E-05	2.98E-04	5.76E-04	2.65E-05	4.68E-04	1.10E-07	0.00411919	1.41E-03	9.71E-05	2.98E-04	5.76E-04	2.65E-05	5.21E-05	4.68E-04	2.93E-03
4772	474863.09, 3861377.25	2.75E-03	9.87E-05	3.03E-04	5.98E-04	2.78E-05	4.80E-04	1.14E-07	0.00426019	1.46E-03	9.87E-05	3.03E-04	5.98E-04	2.78E-05	5.35E-05	4.80E-04	3.02E-03
4773	475363.09, 3861377.25	2.84E-03	1.01E-04	3.11E-04	6.31E-04	2.92E-05	5.08E-04	1.21E-07	0.00442119	1.51E-03	1.01E-04	3.11E-04	6.31E-04	2.92E-05	5.53E-05	5.08E-04	3.14E-03
4774	475863.09, 3861377.25	2.95E-03	1.02E-04	3.13E-04	6.50E-04	3.03E-05	5.11E-04	1.24E-07	0.0045604	1.56E-03	1.02E-04	3.13E-04	6.50E-04	3.03E-05	5.71E-05	5.11E-04	3.23E-03
4775	476363.09, 3861377.25	3.08E-03	1.02E-04	3.11E-04	6.55E-04	3.12E-05	4.96E-04	1.26E-07	0.00467128	1.62E-03	1.02E-04	3.11E-04	6.55E-04	3.12E-05	5.88E-05	4.96E-04	3.28E-03
4776	476863.09, 3861377.25	3.19E-03	1.01E-04	3.08E-04	6.61E-04	3.21E-05	4.87E-04	1.29E-07	0.00477707	1.67E-03	1.01E-04	3.08E-04	6.61E-04	3.21E-05	6.06E-05	4.87E-04	3.32E-03
4777	477363.09, 3861377.25	3.29E-03	1.02E-04	3.07E-04	6.72E-04	3.30E-05	4.86E-04	1.33E-07	0.00488647	1.72E-03	1.02E-04	3.07E-04	6.72E-04	3.30E-05	6.24E-05	4.86E-04	3.39E-03
4778	477863.09, 3861377.25	3.28E-03	9.50E-05	2.73E-04	5.59E-04	3.02E-05	3.98E-04	1.21E-07	0.00463548	1.71E-03	9.50E-05	2.73E-04	5.59E-04	3.02E-05	5.74E-05	3.98E-04	3.12E-03
4779	478363.09, 3861377.25	2.91E-03	8.01E-05	1.90E-04	3.16E-04	1.97E-05	2.52E-04	8.45E-08	0.00376299	1.51E-03	8.01E-05	1.90E-04	3.16E-04	1.97E-05	3.65E-05	2.52E-04	2.40E-03
4780	478863.09, 3861377.25	3.20E-03	8.63E-05	2.19E-04	4.09E-04	2.48E-05	3.06E-04	1.04E-07	0.00424113	1.66E-03	8.63E-05	2.19E-04	4.09E-04	2.48E-05	4.45E-05	3.06E-04	2.75E-03
4781	479363.09, 3861377.25	3.71E-03	1.10E-04	3.15E-04	8.15E-04	4.02E-05	5.84E-04	1.77E-07	0.00556904	1.94E-03	1.10E-04	3.15E-04	8.15E-04	4.02E-05	7.00E-05	5.84E-04	3.87E-03
4782	479863.09, 3861377.25	3.75E-03	1.22E-04	3.56E-04	1.00E-03	4.59E-05	7.98E-04	2.22E-07	0.00607141	1.97E-03	1.22E-04	3.56E-04	1.00E-03	4.59E-05	7.87E-05	7.98E-04	4.38E-03
4783	480363.09, 3861377.25	3.77E-03	1.32E-04	3.81E-04	1.11E-03	4.94E-05	9.96E-04	2.57E-07	0.00643211	2.00E-03	1.32E-04	3.81E-04	1.11E-03	4.94E-05	8.45E-05	9.96E-04	4.75E-03
4784	480863.09, 3861377.25	3.84E-03	1.37E-04	3.93E-04	1.18E-03	5.22E-05	1.12E-03	2.83E-07	0.00672408	2.04E-03	1.37E-04	3.93E-04	1.18E-03	5.22E-05	9.06E-05	1.12E-03	5.01E-03
4785	481363.09, 3861377.25	3.91E-03	1.43E-04	4.05E-04	1.25E-03	5.49E-05	1.24E-03	3.12E-07	0.00700233	2.08E-03	1.43E-04	4.05E-04	1.25E-03	5.49E-05	9.74E-05	1.24E-03	5.27E-03
4786	481863.09, 3861377.25	4.04E-03	1.49E-04	4.19E-04	1.31E-03	5.76E-05	1.34E-03	3.43E-07	0.00731799	2.15E-03	1.49E-04	4.19E-04	1.31E-03	5.76E-05	1.04E-04	1.34E-03	5.53E-03
4787	482363.09, 3861377.25	4.18E-03	1.54E-04	4.36E-04	1.38E-03	6.08E-05	1.44E-03	3.75E-07	0.0076544	2.23E-03	1.54E-04	4.36E-04	1.38E-03	6.08E-05	1.09E-04	1.44E-03	5.81E-03
4788	482863.09, 3861377.25	4.29E-03	1.58E-04	4.55E-04	1.44E-03	6.40E-05	1.56E-03	4.10E-07	0.00796632	2.29E-03	1.58E-04	4.55E-04	1.44E-03	6.40E-05	1.15E-04	1.56E-03	6.08E-03
4789	483363.09, 3861377.25	4.41E-03	1.65E-04	4.80E-04	1.50E-03	6.68E-05	1.68E-03	4.56E-07	0.00830861	2.35E-03	1.65E-04	4.80E-04	1.50E-03	6.68E-05	1.21E-04	1.68E-03	6.37E-03
4790	483863.09, 3861377.25	4.51E-03	1.71E-04	5.17E-04	1.55E-03	6.91E-05	1.83E-03	5.06E-07	0.00864779	2.41E-03	1.71E-04	5.17E-04	1.55E-03	6.91E-05	1.23E-04	1.83E-03	6.67E-03
4791	484363.09, 3861377.25	4.65E-03	1.79E-04	5.56E-04	1.60E-03	7.16E-05	2.00E-03	5.43E-07	0.00905854	2.49E-03	1.79E-04	5.56E-04	1.60E-03	7.16E-05	1.25E-04	2.00E-03	7.02E-03
4792	484863.09, 3861377.25	4.69E-03	1.86E-04	5.95E-04	1.62E-03	7.13E-05	2.26E-03	5.64E-07	0.00941979	2.51E-03	1.86E-04	5.95E-04	1.62E-03	7.13E-05	1.20E-04	2.26E-03	7.37E-03
4793	485363.09, 3861377.25	4.78E-03	1.93E-04	6.31E-04	1.62E-03	7.09E-05	2.49E-03	5.98E-07	0.00978309	2.57E-03	1.93E-04	6.31E-04	1.62E-03	7.09E-05	1.14E-04	2.49E-03	7.68E-03
4794	485863.09, 3861377.25	5.00E-03	2.02E-04	6.84E-04	1.63E-03	7.20E-05	2.77E-03	6.63E-07	0.01036019	2.69E-03	2.02E-04	6.84E-04	1.63E-03	7.20E-05	1.12E-04	2.77E-03	8.16E-03
4795	486363.09, 3861377.25	5.34E-03	2.15E-04	7.45E-04	1.62E-03	7.24E-05	3.05E-03	7.47E-07	0.01104151	2.87E-03	2.15E-04	7.45E-04	1.62E-03	7.24E-05	1.09E-04	3.05E-03	8.68E-03
4796	486863.09, 3861377.25	5.76E-03	2.30E-04	8.28E-04	1.60E-03	7.23E-05	3.42E-03	8.53E-07	0.01191278	3.09E-03	2.30E-04	8.28E-04	1.60E-03	7.23E-05	1.09E-04	3.42E-03	9.35E-03

4797	487363.09, 3861377.25	6.00E-03	2.46E-04	9.30E-04	1.60E-03	7.13E-05	3.86E-03	9.78E-07	0.0127102	3.23E-03	2.46E-04	9.30E-04	1.60E-03	7.13E-05	1.10E-04	3.86E-03	1.00E-02
4798	487863.09, 3861377.25	5.91E-03	2.63E-04	1.05E-03	1.59E-03	7.08E-05	4.16E-03	1.14E-06	0.01305099	3.21E-03	2.63E-04	1.05E-03	1.59E-03	7.08E-05	1.11E-04	4.16E-03	1.05E-02
4799	488363.09, 3861377.25	6.30E-03	2.84E-04	1.18E-03	1.60E-03	7.03E-05	4.24E-03	1.32E-06	0.01366826	3.42E-03	2.84E-04	1.18E-03	1.60E-03	7.03E-05	1.09E-04	4.24E-03	1.09E-02
4800	488863.09, 3861377.25	6.97E-03	3.09E-04	1.34E-03	1.63E-03	7.04E-05	4.40E-03	1.83E-06	0.01473356	3.78E-03	3.09E-04	1.34E-03	1.63E-03	7.04E-05	1.12E-04	4.40E-03	1.17E-02
4801	489363.09, 3861377.25	8.10E-03	3.37E-04	1.49E-03	1.65E-03	7.10E-05	4.51E-03	4.81E-06	0.01616032	4.36E-03	3.37E-04	1.49E-03	1.65E-03	7.10E-05	1.16E-04	4.51E-03	1.25E-02
4802	489863.09, 3861377.25	7.98E-03	3.75E-04	1.66E-03	1.68E-03	7.22E-05	4.57E-03	2.27E-06	0.01634711	4.35E-03	3.75E-04	1.66E-03	1.68E-03	7.22E-05	1.18E-04	4.57E-03	1.28E-02
4803	490363.09, 3861377.25	7.90E-03	4.29E-04	1.79E-03	1.71E-03	7.26E-05	4.48E-03	1.78E-06	0.01638738	4.37E-03	4.29E-04	1.79E-03	1.71E-03	7.26E-05	1.19E-04	4.48E-03	1.30E-02
4804	490863.09, 3861377.25	7.95E-03	5.06E-04	1.97E-03	1.73E-03	7.33E-05	4.38E-03	1.57E-06	0.01659814	4.49E-03	5.06E-04	1.97E-03	1.73E-03	7.33E-05	1.21E-04	4.38E-03	1.33E-02
4805	491363.09, 3861377.25	8.14E-03	6.31E-04	2.07E-03	1.67E-03	7.41E-05	4.20E-03	1.44E-06	0.01678503	4.74E-03	6.31E-04	2.07E-03	1.67E-03	7.41E-05	1.27E-04	4.20E-03	1.35E-02
4806	491863.09, 3861377.25	8.70E-03	8.73E-04	2.04E-03	1.59E-03	7.18E-05	4.01E-03	1.35E-06	0.01727595	5.30E-03	8.73E-04	2.04E-03	1.59E-03	7.18E-05	1.24E-04	4.01E-03	1.40E-02
4807	492363.09, 3861377.25	1.02E-02	1.53E-03	2.06E-03	1.55E-03	6.84E-05	3.82E-03	1.26E-06	0.01926669	6.85E-03	1.53E-03	2.06E-03	1.55E-03	6.84E-05	1.17E-04	3.82E-03	1.60E-02
4808	492863.09, 3861377.25	1.91E-02	5.32E-03	1.99E-03	1.56E-03	6.65E-05	3.62E-03	1.20E-06	0.03165508	1.58E-02	5.32E-03	1.99E-03	1.56E-03	6.65E-05	1.12E-04	3.62E-03	2.85E-02
4809	493363.09, 3861377.25	6.32E-02	2.33E-02	2.05E-03	1.61E-03	6.67E-05	3.41E-03	1.17E-06	0.093644	6.00E-02	2.33E-02	2.05E-03	1.61E-03	6.67E-05	1.12E-04	3.41E-03	9.05E-02
4810	493863.09, 3861377.25	2.30E-02	7.09E-03	2.00E-03	1.65E-03	6.77E-05	3.21E-03	1.15E-06	0.03707408	1.99E-02	7.09E-03	2.00E-03	1.65E-03	6.77E-05	1.13E-04	3.21E-03	3.41E-02
4811	494363.09, 3861377.25	1.58E-02	4.12E-03	1.86E-03	1.67E-03	6.88E-05	3.04E-03	1.12E-06	0.02652753	1.27E-02	4.12E-03	1.86E-03	1.67E-03	6.88E-05	1.17E-04	3.04E-03	2.36E-02
4812	494863.09, 3861377.25	1.27E-02	2.90E-03	1.74E-03	1.67E-03	6.98E-05	2.88E-03	1.09E-06	0.02200573	9.74E-03	2.90E-03	1.74E-03	1.67E-03	6.98E-05	1.22E-04	2.88E-03	1.91E-02
4813	495363.09, 3861377.25	1.11E-02	2.27E-03	1.62E-03	1.64E-03	6.99E-05	2.74E-03	1.05E-06	0.0194693	8.18E-03	2.27E-03	1.62E-03	1.64E-03	6.99E-05	1.26E-04	2.74E-03	1.66E-02
4814	495863.09, 3861377.25	1.01E-02	1.89E-03	1.51E-03	1.61E-03	6.91E-05	2.60E-03	1.02E-06	0.01778489	7.23E-03	1.89E-03	1.51E-03	1.61E-03	6.91E-05	1.27E-04	2.60E-03	1.50E-02
4815	496363.09, 3861377.25	9.31E-03	1.57E-03	1.43E-03	1.59E-03	6.89E-05	2.50E-03	9.98E-07	0.01646783	6.44E-03	1.57E-03	1.43E-03	1.59E-03	6.89E-05	1.27E-04	2.50E-03	1.37E-02
4816	496863.09, 3861377.25	8.59E-03	1.23E-03	1.37E-03	1.58E-03	6.90E-05	2.40E-03	9.87E-07	0.01522493	5.68E-03	1.23E-03	1.37E-03	1.58E-03	6.90E-05	1.27E-04	2.40E-03	1.24E-02
4817	497363.09, 3861377.25	8.19E-03	1.07E-03	1.29E-03	1.54E-03	6.74E-05	2.28E-03	9.52E-07	0.01443865	5.30E-03	1.07E-03	1.29E-03	1.54E-03	6.74E-05	1.24E-04	2.28E-03	1.17E-02
4818	497863.09, 3861377.25	7.86E-03	9.54E-04	1.21E-03	1.50E-03	6.58E-05	2.18E-03	9.17E-07	0.01376314	4.99E-03	9.54E-04	1.21E-03	1.50E-03	6.58E-05	1.21E-04	2.18E-03	1.10E-02
4819	498363.09, 3861377.25	7.56E-03	8.54E-04	1.15E-03	1.47E-03	6.43E-05	2.07E-03	8.88E-07	0.01316607	4.72E-03	8.54E-04	1.15E-03	1.47E-03	6.43E-05	1.19E-04	2.07E-03	1.04E-02
4820	471363.09, 3861877.25	2.11E-03	8.42E-05	2.47E-04	4.28E-04	1.99E-05	3.50E-04	8.39E-08	0.00324013	1.13E-03	8.42E-05	2.47E-04	4.28E-04	1.99E-05	3.80E-05	3.50E-04	2.30E-03
4821	471863.09, 3861877.25	2.18E-03	8.55E-05	2.53E-04	4.46E-04	2.08E-05	3.66E-04	8.73E-08	0.00335483	1.17E-03	8.55E-05	2.53E-04	4.46E-04	2.08E-05	4.03E-05	3.66E-04	2.38E-03
4822	472363.09, 3861877.25	2.24E-03	8.71E-05	2.59E-04	4.66E-04	2.16E-05	3.84E-04	9.10E-08	0.00345973	1.20E-03	8.71E-05	2.59E-04	4.66E-04	2.16E-05	4.24E-05	3.84E-04	2.46E-03
4823	472863.09, 3861877.25	2.32E-03	8.92E-05	2.66E-04	4.87E-04	2.25E-05	4.05E-04	9.50E-08	0.00358575	1.24E-03	8.92E-05	2.66E-04	4.87E-04	2.25E-05	4.43E-05	4.05E-04	2.55E-03
4824	473363.09, 3861877.25	2.39E-03	9.09E-05	2.72E-04	5.10E-04	2.34E-05	4.25E-04	9.94E-08	0.00371021	1.27E-03	9.09E-05	2.72E-04	5.10E-04	2.34E-05	4.58E-05	4.25E-04	2.64E-03
4825	473863.09, 3861877.25	2.46E-03	9.25E-05	2.79E-04	5.32E-04	2.43E-05	4.43E-04	1.04E-07	0.00383174	1.31E-03	9.25E-05	2.79E-04	5.32E-04	2.43E-05	4.71E-05	4.43E-04	2.73E-03
4826	474363.09, 3861877.25	2.54E-03	9.42E-05	2.85E-04	5.56E-04	2.54E-05	4.63E-04	1.09E-07	0.00395984	1.35E-03	9.42E-05	2.85E-04	5.56E-04	2.54E-05	4.84E-05	4.63E-04	2.82E-03
4827	474863.09, 3861877.25	2.62E-03	9.58E-05	2.91E-04	5.80E-04	2.66E-05	4.80E-04	1.15E-07	0.00409637	1.40E-03	9.58E-05	2.91E-04	5.80E-04	2.66E-05	4.99E-05	4.80E-04	2.92E-03
4828	475363.09, 3861877.25	2.70E-03	9.75E-05	2.96E-04	6.05E-04	2.78E-05	5.01E-04	1.22E-07	0.00422596	1.43E-03	9.75E-05	2.96E-04	6.05E-04	2.78E-05	5.18E-05	5.01E-04	3.01E-03
4829	475863.09, 3861877.25	2.76E-03	1.00E-04	3.01E-04	6.35E-04	2.90E-05	5.28E-04	1.30E-07	0.00435499	1.47E-03	1.00E-04	3.01E-04	6.35E-04	2.90E-05	5.38E-05	5.28E-04	3.11E-03
4830	476363.09, 3861877.25	2.84E-03	1.02E-04	3.05E-04	6.62E-04	3.03E-05	5.46E-04	1.39E-07	0.0044828	1.51E-03	1.02E-04	3.05E-04	6.62E-04	3.03E-05	5.58E-05	5.46E-04	3.21E-03
4831	476863.09, 3861877.25	2.94E-03	1.03E-04	3.07E-04	6.81E-04	3.13E-05	5.48E-04	1.46E-07	0.00460776	1.56E-03	1.03E-04	3.07E-04	6.81E-04	3.13E-05	5.77E-05	5.48E-04	3.28E-03
4832	477363.09, 3861877.25	3.03E-03	1.03E-04	3.06E-04	6.91E-04	3.22E-05	5.39E-04	1.51E-07	0.00470468	1.60E-03	1.03E-04	3.06E-04	6.91E-04	3.22E-05	5.84E-05	5.39E-04	3.33E-03
4833	477863.09, 3861877.25	3.05E-03	9.29E-05	2.64E-04	5.61E-04	2.92E-05	4.13E-04	1.31E-07	0.00441392	1.60E-03	9.29E-05	2.64E-04	5.61E-04	2.92E-05	5.28E-05	4.13E-04	3.01E-03
4834	478363.09, 3861877.25	2.52E-03	7.38E-05	1.61E-04	2.58E-04	1.61E-05	2.08E-04	7.34E-08	0.00323464	1.31E-03	7.38E-05	1.61E-04	2.58E-04	1.61E-05	2.86E-05	2.08E-04	2.06E-03
4835	478863.09, 3861877.25	3.07E-03	8.71E-05	2.30E-04	4.67E-04	2.68E-05	3.28E-04	1.19E-07	0.0042118	1.60E-03	8.71E-05	2.30E-04	4.67E-04	2.68E-05	4.68E-05	3.28E-04	2.78E-03
4836	479363.09, 3861877.25	3.06E-03	8.51E-05	2.13E-04	4.20E-04	2.51E-05	3.01E-04	1.13E-07	0.0040999	1.59E-03	8.51E-05	2.13E-04	4.20E-04	2.51E-05	4.50E-05	3.01E-04	2.68E-03
4837	479863.09, 3861877.25	3.44E-03	1.16E-04	3.37E-04	9.09E-04	4.17E-05	7.51E-04	2.23E-07	0.00559757	1.82E-03	1.16E-04	3.37E-04	9.09E-04	4.17E-05	7.29E-05	7.51E-04	4.05E-03
4838	480363.09, 3861877.25	3.42E-03	1.26E-04	3.64E-04	1.01E-03	4.49E-05	9.56E-04	2.56E-07	0.0059185	1.82E-03	1.26E-04	3.64E-04	1.01E-03	4.49E-05	7.78E-05	9.56E-04	4.40E-03
4839	480863.09, 3861877.25	3.48E-03	1.30E-04	3.75E-04	1.06E-03	4.72E-05	1.05E-03	2.80E-07	0.00613898	1.85E-03	1.30E-04	3.75E-04	1.06E-03	4.72E-05	8.29E-05	1.05E-03	4.60E-03
4840	481363.09, 3861877.25	3.51E-03	1.35E-04	3.86E-04	1.11E-03	4.94E-05	1.14E-03	3.04E-07	0.00632271	1.87E-03	1.35E-04	3.86E-04	1.11E-03	4.94E-05	8.85E-05	1.14E-03	4.78E-03
4841	481863.09, 3861877.25	3.59E-03	1.40E-04	3.99E-04	1.16E-03	5.17E-05	1.21E-03	3.30E-07	0.00655397	1.92E-03	1.40E-04	3.99E-04	1.16E-03	5.17E-05	9.37E-05	1.21E-03	4.98E-03
4842	482363.09, 3861877.25	3.68E-03	1.45E-04	4.16E-04	1.22E-03	5.43E-05	1.30E-03	3.61E-07	0.00681283	1.97E-03	1.45E-04	4.16E-04	1.22E-03	5.43E-05	9.76E-05	1.30E-03	5.20E-03
4843	482863.09, 3861877.25	3.76E-03	1.49E-04	4.36E-04	1.27E-03	5.68E-05	1.39E-03	3.95E-07	0.00706526	2.01E-03	1.49E-04	4.36E-04	1.27E-03	5.68E-05	1.02E-04	1.39E-03	5.42E-03
4844	483363.09, 3861877.25	3.81E-03	1.54E-04	4.62E-04	1.31E-03	5.87E-05	1.50E-03	4.21E-07	0.00729685	2.05E-03	1.54E-04	4.62E-04	1.31E-03	5.87E-05	1.05E-04	1.50E-03	5.64E-03
4845	483863.09, 3861877.25	3.82E-03	1.59E-04	4.90E-04	1.35E-03	6.05E-05	1.61E-03	4.35E-07	0.00748355	2.06E-03	1.59E-04	4.90E-04	1.35E-03	6.05E-05	1.07E-04	1.61E-03	5.83E-03
4846	484363.09, 3861877.25	3.81E-03	1.66E-04	5.19E-04	1.37E-03	6.15E-05	1.74E-03	4.50E-07	0.00766822	2.06E-03	1.66E-04	5.19E-04	1.37E-03	6.15E-05	1.06E-04	1.74E-03	6.02E-03
4847	484863.09, 3861877.25	3.91E-03	1.72E-04	5.51E-04	1.39E-03	6.25E-05	1.89E-03	4.84E-07	0.00797856	2.12E-03	1.72E-04	5.51E-04	1.39E-03	6.25E-05	1.04E-04	1.89E-03	6.29E-03
4848	485363.09, 3861877.25	3.91E-03	1.78E-04	5.85E-04	1.39E-03	6.21E-05	2.04E-03	5.32E-07	0.00816288	2.12E-03	1.78E-04	5.85E-04	1.39E-03	6.21E-05	1.01E-04	2.04E-03	6.48E-03
4849	485863.09, 3861877.25	3.87E-03	1.84E-04	6.20E-04	1.37E-03	6.15E-05	2.16E-03	5.88E-07	0.00827201	2.11E-03	1.84E-04	6.20E-04	1.37E-03	6.15E-05	9.50E-05	2.16E-03	6.61E-03
4850	486363.09, 3861877.25	3.98E-03	1.93E-04	6.70E-04	1.36E-03	6.18E-05	2.32E-03	6.61E-07	0.00859494	2.18E-03	1.93E-04	6.70E-04	1.36E-03	6.18E-05	9.30E-05	2.32E-03	6.88E-03

4851	486863.09, 3861877.25	4.15E-03	2.05E-04	7.33E-04	1.35E-03	6.14E-05	2.51E-03	7.42E-07	0.00901339	2.28E-03	2.05E-04	7.33E-04	1.35E-03	6.14E-05	9.30E-05	2.51E-03	7.23E-03
4852	487363.09, 3861877.25	4.14E-03	2.17E-04	8.09E-04	1.34E-03	6.07E-05	2.70E-03	8.52E-07	0.00927026	2.29E-03	2.17E-04	8.09E-04	1.34E-03	6.07E-05	9.46E-05	2.70E-03	7.51E-03
4853	487863.09, 3861877.25	4.06E-03	2.30E-04	8.85E-04	1.34E-03	6.00E-05	2.78E-03	9.74E-07	0.00935293	2.26E-03	2.30E-04	8.85E-04	1.34E-03	6.00E-05	9.60E-05	2.78E-03	7.65E-03
4854	488363.09, 3861877.25	4.16E-03	2.45E-04	9.66E-04	1.34E-03	5.96E-05	2.73E-03	1.14E-06	0.00950733	2.33E-03	2.45E-04	9.66E-04	1.34E-03	5.96E-05	9.39E-05	2.73E-03	7.77E-03
4855	488863.09, 3861877.25	4.78E-03	2.64E-04	1.05E-03	1.35E-03	5.91E-05	2.75E-03	1.62E-06	0.01025111	2.66E-03	2.64E-04	1.05E-03	1.35E-03	5.91E-05	9.42E-05	2.75E-03	8.22E-03
4856	489363.09, 3861877.25	5.71E-03	2.84E-04	1.10E-03	1.36E-03	5.89E-05	2.82E-03	4.44E-06	0.01133434	3.13E-03	2.84E-04	1.10E-03	1.36E-03	5.89E-05	9.71E-05	2.82E-03	8.85E-03
4857	489863.09, 3861877.25	5.52E-03	3.09E-04	1.18E-03	1.38E-03	5.97E-05	2.89E-03	2.03E-06	0.01134091	3.07E-03	3.09E-04	1.18E-03	1.38E-03	5.97E-05	9.90E-05	2.89E-03	8.99E-03
4858	490363.09, 3861877.25	5.40E-03	3.42E-04	1.24E-03	1.39E-03	5.99E-05	2.88E-03	1.54E-06	0.01131334	3.05E-03	3.42E-04	1.24E-03	1.39E-03	5.99E-05	1.00E-04	2.88E-03	9.06E-03
4859	490863.09, 3861877.25	5.33E-03	3.87E-04	1.28E-03	1.41E-03	6.03E-05	2.84E-03	1.32E-06	0.01131021	3.07E-03	3.87E-04	1.28E-03	1.41E-03	6.03E-05	1.01E-04	2.84E-03	9.15E-03
4860	491363.09, 3861877.25	5.44E-03	4.47E-04	1.29E-03	1.44E-03	6.11E-05	2.84E-03	1.21E-06	0.01151243	3.20E-03	4.47E-04	1.29E-03	1.44E-03	6.11E-05	1.03E-04	2.84E-03	9.37E-03
4861	491863.09, 3861877.25	5.69E-03	5.34E-04	1.29E-03	1.41E-03	6.22E-05	2.83E-03	1.13E-06	0.01181734	3.42E-03	5.34E-04	1.29E-03	1.41E-03	6.22E-05	1.08E-04	2.83E-03	9.66E-03
4862	492363.09, 3861877.25	6.09E-03	6.63E-04	1.28E-03	1.33E-03	6.04E-05	2.76E-03	1.05E-06	0.01217935	3.77E-03	6.63E-04	1.28E-03	1.33E-03	6.04E-05	1.07E-04	2.76E-03	9.97E-03
4863	492863.09, 3861877.25	6.56E-03	8.58E-04	1.29E-03	1.29E-03	5.76E-05	2.69E-03	9.93E-07	0.01274881	4.24E-03	8.58E-04	1.29E-03	1.29E-03	5.76E-05	1.00E-04	2.69E-03	1.05E-02
4864	493363.09, 3861877.25	7.27E-03	1.16E-03	1.25E-03	1.28E-03	5.57E-05	2.63E-03	9.43E-07	0.01364367	4.95E-03	1.16E-03	1.25E-03	1.28E-03	5.57E-05	9.61E-05	2.63E-03	1.14E-02
4865	493863.09, 3861877.25	8.58E-03	1.72E-03	1.23E-03	1.31E-03	5.51E-05	2.54E-03	9.11E-07	0.01542864	6.26E-03	1.72E-03	1.23E-03	1.31E-03	5.51E-05	9.53E-05	2.54E-03	1.32E-02
4866	494363.09, 3861877.25	1.18E-02	3.10E-03	1.27E-03	1.34E-03	5.55E-05	2.44E-03	8.90E-07	0.01996644	9.46E-03	3.10E-03	1.27E-03	1.34E-03	5.55E-05	9.56E-05	2.44E-03	1.78E-02
4867	494863.09, 3861877.25	3.42E-02	1.28E-02	1.26E-03	1.38E-03	5.67E-05	2.36E-03	8.81E-07	0.05202494	3.19E-02	1.28E-02	1.26E-03	1.38E-03	5.67E-05	9.74E-05	2.36E-03	4.99E-02
4868	495363.09, 3861877.25	3.92E-02	1.46E-02	1.20E-03	1.39E-03	5.76E-05	2.26E-03	8.59E-07	0.05879112	3.70E-02	1.46E-02	1.20E-03	1.39E-03	5.76E-05	1.01E-04	2.26E-03	5.67E-02
4869	495863.09, 3861877.25	1.87E-02	6.05E-03	1.14E-03	1.38E-03	5.81E-05	2.18E-03	8.32E-07	0.02947998	1.64E-02	6.05E-03	1.14E-03	1.38E-03	5.81E-05	1.05E-04	2.18E-03	2.74E-02
4870	496363.09, 3861877.25	1.33E-02	3.80E-03	1.09E-03	1.37E-03	5.84E-05	2.10E-03	8.12E-07	0.0217354	1.11E-02	3.80E-03	1.09E-03	1.37E-03	5.84E-05	1.08E-04	2.10E-03	1.96E-02
4871	496863.09, 3861877.25	9.29E-03	1.97E-03	1.09E-03	1.41E-03	6.16E-05	2.06E-03	8.37E-07	0.01587668	6.92E-03	1.97E-03	1.09E-03	1.41E-03	6.16E-05	1.15E-04	2.06E-03	1.36E-02
4872	497363.09, 3861877.25	9.27E-03	2.07E-03	1.03E-03	1.34E-03	5.86E-05	1.98E-03	7.88E-07	0.01575026	7.03E-03	2.07E-03	1.03E-03	1.34E-03	5.86E-05	1.09E-04	1.98E-03	1.36E-02
4873	497863.09, 3861877.25	8.67E-03	1.85E-03	9.76E-04	1.30E-03	5.68E-05	1.90E-03	7.54E-07	0.01475004	6.47E-03	1.85E-03	9.76E-04	1.30E-03	5.68E-05	1.06E-04	1.90E-03	1.27E-02
4874	498363.09, 3861877.25	8.09E-03	1.60E-03	9.36E-04	1.27E-03	5.54E-05	1.83E-03	7.28E-07	0.01378526	5.89E-03	1.60E-03	9.36E-04	1.27E-03	5.54E-05	1.03E-04	1.83E-03	1.17E-02
4875	471363.09, 3862377.25	2.05E-03	8.21E-05	2.36E-04	4.18E-04	1.93E-05	3.49E-04	8.29E-08	0.00315206	1.10E-03	8.21E-05	2.36E-04	4.18E-04	1.93E-05	3.78E-05	3.49E-04	2.24E-03
4876	471863.09, 3862377.25	2.10E-03	8.34E-05	2.41E-04	4.34E-04	2.00E-05	3.63E-04	8.64E-08	0.00324709	1.13E-03	8.34E-05	2.41E-04	4.34E-04	2.00E-05	3.93E-05	3.63E-04	2.31E-03
4877	472363.09, 3862377.25	2.15E-03	8.51E-05	2.47E-04	4.53E-04	2.08E-05	3.81E-04	9.07E-08	0.00333965	1.15E-03	8.51E-05	2.47E-04	4.53E-04	2.08E-05	4.06E-05	3.81E-04	2.38E-03
4878	472863.09, 3862377.25	2.21E-03	8.67E-05	2.53E-04	4.72E-04	2.15E-05	3.99E-04	9.54E-08	0.00344465	1.18E-03	8.67E-05	2.53E-04	4.72E-04	2.15E-05	4.17E-05	3.99E-04	2.46E-03
4879	473363.09, 3862377.25	2.29E-03	8.84E-05	2.59E-04	4.92E-04	2.24E-05	4.17E-04	1.00E-07	0.00356418	1.22E-03	8.84E-05	2.59E-04	4.92E-04	2.24E-05	4.27E-05	4.17E-04	2.54E-03
4880	473863.09, 3862377.25	2.34E-03	8.96E-05	2.66E-04	5.12E-04	2.33E-05	4.33E-04	1.06E-07	0.00366821	1.25E-03	8.96E-05	2.66E-04	5.12E-04	2.33E-05	4.38E-05	4.33E-04	2.62E-03
4881	474363.09, 3862377.25	2.41E-03	9.09E-05	2.72E-04	5.31E-04	2.42E-05	4.48E-04	1.12E-07	0.00377124	1.28E-03	9.09E-05	2.72E-04	5.31E-04	2.42E-05	4.53E-05	4.48E-04	2.69E-03
4882	474863.09, 3862377.25	2.48E-03	9.25E-05	2.76E-04	5.49E-04	2.52E-05	4.59E-04	1.19E-07	0.00388224	1.32E-03	9.25E-05	2.76E-04	5.49E-04	2.52E-05	4.68E-05	4.59E-04	2.77E-03
4883	475363.09, 3862377.25	2.53E-03	9.50E-05	2.80E-04	5.75E-04	2.63E-05	4.87E-04	1.28E-07	0.00399343	1.35E-03	9.50E-05	2.80E-04	5.75E-04	2.63E-05	4.83E-05	4.87E-04	2.86E-03
4884	475863.09, 3862377.25	2.58E-03	9.71E-05	2.85E-04	6.01E-04	2.73E-05	5.14E-04	1.37E-07	0.00410241	1.38E-03	9.71E-05	2.85E-04	6.01E-04	2.73E-05	4.97E-05	5.14E-04	2.95E-03
4885	476363.09, 3862377.25	2.64E-03	9.92E-05	2.90E-04	6.27E-04	2.84E-05	5.36E-04	1.46E-07	0.00421832	1.41E-03	9.92E-05	2.90E-04	6.27E-04	2.84E-05	5.08E-05	5.36E-04	3.04E-03
4886	476863.09, 3862377.25	2.70E-03	1.01E-04	2.95E-04	6.52E-04	2.95E-05	5.55E-04	1.55E-07	0.00432959	1.44E-03	1.01E-04	2.95E-04	6.52E-04	2.95E-05	5.15E-05	5.55E-04	3.12E-03
4887	477363.09, 3862377.25	2.79E-03	1.02E-04	2.96E-04	6.69E-04	3.07E-05	5.53E-04	1.62E-07	0.00444454	1.49E-03	1.02E-04	2.96E-04	6.69E-04	3.07E-05	5.19E-05	5.53E-04	3.19E-03
4888	477863.09, 3862377.25	2.91E-03	9.46E-05	2.70E-04	5.99E-04	2.96E-05	4.49E-04	1.50E-07	0.00434829	1.53E-03	9.46E-05	2.70E-04	5.99E-04	2.96E-05	5.07E-05	4.49E-04	3.02E-03
4889	478363.09, 3862377.25	2.87E-03	8.67E-05	2.34E-04	4.85E-04	2.65E-05	3.47E-04	1.26E-07	0.00404768	1.50E-03	8.67E-05	2.34E-04	4.85E-04	2.65E-05	4.64E-05	3.47E-04	2.73E-03
4890	478863.09, 3862377.25	2.95E-03	8.84E-05	2.41E-04	5.21E-04	2.80E-05	3.66E-04	1.33E-07	0.00418983	1.54E-03	8.84E-05	2.41E-04	5.21E-04	2.80E-05	5.02E-05	3.66E-04	2.83E-03
4891	479363.09, 3862377.25	3.07E-03	9.54E-05	2.66E-04	6.32E-04	3.22E-05	4.56E-04	1.59E-07	0.00454877	1.61E-03	9.54E-05	2.66E-04	6.32E-04	3.22E-05	5.85E-05	4.56E-04	3.15E-03
4892	479863.09, 3862377.25	3.12E-03	1.12E-04	3.29E-04	8.45E-04	3.87E-05	7.57E-04	2.24E-07	0.00520381	1.66E-03	1.12E-04	3.29E-04	8.45E-04	3.87E-05	6.77E-05	7.57E-04	3.81E-03
4893	480363.09, 3862377.25	3.08E-03	1.20E-04	3.48E-04	9.10E-04	4.11E-05	9.04E-04	2.51E-07	0.00539884	1.65E-03	1.20E-04	3.48E-04	9.10E-04	4.11E-05	7.16E-05	9.04E-04	4.04E-03
4894	480863.09, 3862377.25	3.09E-03	1.24E-04	3.58E-04	9.51E-04	4.29E-05	9.79E-04	2.72E-07	0.0055413	1.66E-03	1.24E-04	3.58E-04	9.51E-04	4.29E-05	7.60E-05	9.79E-04	4.19E-03
4895	481363.09, 3862377.25	3.10E-03	1.28E-04	3.70E-04	9.95E-04	4.47E-05	1.05E-03	2.95E-07	0.00568238	1.67E-03	1.28E-04	3.70E-04	9.95E-04	4.47E-05	8.08E-05	1.05E-03	4.33E-03
4896	481863.09, 3862377.25	3.14E-03	1.33E-04	3.85E-04	1.04E-03	4.64E-05	1.12E-03	3.19E-07	0.0058582	1.69E-03	1.33E-04	3.85E-04	1.04E-03	4.64E-05	8.45E-05	1.12E-03	4.50E-03
4897	482363.09, 3862377.25	3.20E-03	1.37E-04	4.01E-04	1.08E-03	4.85E-05	1.19E-03	3.37E-07	0.00605913	1.73E-03	1.37E-04	4.01E-04	1.08E-03	4.85E-05	8.70E-05	1.19E-03	4.67E-03
4898	482863.09, 3862377.25	3.25E-03	1.40E-04	4.18E-04	1.13E-03	5.05E-05	1.25E-03	3.47E-07	0.00623399	1.75E-03	1.40E-04	4.18E-04	1.13E-03	5.05E-05	8.99E-05	1.25E-03	4.83E-03
4899	483363.09, 3862377.25	3.28E-03	1.44E-04	4.36E-04	1.16E-03	5.22E-05	1.31E-03	3.53E-07	0.0063851	1.78E-03	1.44E-04	4.36E-04	1.16E-03	5.22E-05	9.27E-05	1.31E-03	4.97E-03
4900	483863.09, 3862377.25	3.25E-03	1.49E-04	4.57E-04	1.17E-03	5.31E-05	1.40E-03	3.67E-07	0.00648595	1.77E-03	1.49E-04	4.57E-04	1.17E-03	5.31E-05	9.23E-05	1.40E-03	5.09E-03
4901	484363.09, 3862377.25	3.27E-03	1.54E-04	4.82E-04	1.19E-03	5.44E-05	1.48E-03	3.99E-07	0.00664083	1.78E-03	1.54E-04	4.82E-04	1.19E-03	5.44E-05	9.19E-05	1.48E-03	5.24E-03
4902	484863.09, 3862377.25	3.25E-03	1.61E-04	5.08E-04	1.19E-03	5.40E-05	1.56E-03	4.38E-07	0.00672877	1.78E-03	1.61E-04	5.08E-04	1.19E-03	5.40E-05	8.97E-05	1.56E-03	5.35E-03
4903	485363.09, 3862377.25	3.19E-03	1.66E-04	5.32E-04	1.19E-03	5.36E-05	1.66E-03	4.77E-07	0.00678476	1.76E-03	1.66E-04	5.32E-04	1.19E-03	5.36E-05	8.71E-05	1.66E-03	5.44E-03
4904	485863.09, 3862377.25	3.11E-03	1.71E-04	5.63E-04	1.18E-03	5.37E-05	1.75E-03	5.29E-07	0.00683525	1.73E-03	1.71E-04	5.63E-04	1.18E-03	5.37E-05	8.29E-05	1.75E-03	5.53E-03

4905	486363.09, 3862377.25	3.11E-03	1.78E-04	5.99E-04	1.17E-03	5.34E-05	1.86E-03	5.85E-07	0.0069695	1.73E-03	1.78E-04	5.99E-04	1.17E-03	5.34E-05	8.05E-05	1.86E-03	5.67E-03
4906	486863.09, 3862377.25	3.13E-03	1.87E-04	6.44E-04	1.15E-03	5.29E-05	1.94E-03	6.55E-07	0.0070999	1.75E-03	1.87E-04	6.44E-04	1.15E-03	5.29E-05	8.04E-05	1.94E-03	5.81E-03
4907	487363.09, 3862377.25	3.13E-03	1.98E-04	6.95E-04	1.14E-03	5.23E-05	2.02E-03	7.46E-07	0.00723198	1.77E-03	1.98E-04	6.95E-04	1.14E-03	5.23E-05	8.21E-05	2.02E-03	5.95E-03
4908	487863.09, 3862377.25	3.15E-03	2.09E-04	7.46E-04	1.14E-03	5.18E-05	2.05E-03	8.28E-07	0.00734574	1.79E-03	2.09E-04	7.46E-04	1.14E-03	5.18E-05	8.42E-05	2.05E-03	6.07E-03
4909	488363.09, 3862377.25	3.19E-03	2.21E-04	7.93E-04	1.14E-03	5.15E-05	1.99E-03	1.00E-06	0.00738541	1.83E-03	2.21E-04	7.93E-04	1.14E-03	5.15E-05	8.26E-05	1.99E-03	6.11E-03
4910	488863.09, 3862377.25	3.60E-03	2.35E-04	8.42E-04	1.15E-03	5.12E-05	1.99E-03	1.48E-06	0.00787403	2.05E-03	2.35E-04	8.42E-04	1.15E-03	5.12E-05	8.12E-05	1.99E-03	6.40E-03
4911	489363.09, 3862377.25	4.56E-03	2.51E-04	8.88E-04	1.16E-03	5.10E-05	2.04E-03	4.35E-06	0.00895827	2.53E-03	2.51E-04	8.88E-04	1.16E-03	5.10E-05	8.37E-05	2.04E-03	7.01E-03
4912	489863.09, 3862377.25	4.35E-03	2.69E-04	9.33E-04	1.18E-03	5.14E-05	2.08E-03	1.90E-06	0.00886804	2.45E-03	2.69E-04	9.33E-04	1.18E-03	5.14E-05	8.64E-05	2.08E-03	7.05E-03
4913	490363.09, 3862377.25	4.35E-03	2.90E-04	9.67E-04	1.19E-03	5.20E-05	2.14E-03	1.42E-06	0.00898825	2.47E-03	2.90E-04	9.67E-04	1.19E-03	5.20E-05	8.69E-05	2.14E-03	7.20E-03
4914	490863.09, 3862377.25	4.18E-03	3.16E-04	9.65E-04	1.20E-03	5.23E-05	2.14E-03	1.19E-06	0.00884958	2.42E-03	3.16E-04	9.65E-04	1.20E-03	5.23E-05	8.87E-05	2.14E-03	7.18E-03
4915	491363.09, 3862377.25	4.13E-03	3.47E-04	9.55E-04	1.22E-03	5.24E-05	2.09E-03	1.06E-06	0.00879976	2.44E-03	3.47E-04	9.55E-04	1.22E-03	5.24E-05	8.85E-05	2.09E-03	7.19E-03
4916	491863.09, 3862377.25	4.19E-03	3.84E-04	9.35E-04	1.23E-03	5.24E-05	2.06E-03	9.61E-07	0.00885257	2.51E-03	3.84E-04	9.35E-04	1.23E-03	5.24E-05	8.93E-05	2.06E-03	7.26E-03
4917	492363.09, 3862377.25	4.37E-03	4.32E-04	9.45E-04	1.21E-03	5.34E-05	2.07E-03	9.02E-07	0.00907955	2.65E-03	4.32E-04	9.45E-04	1.21E-03	5.34E-05	9.41E-05	2.07E-03	7.46E-03
4918	492863.09, 3862377.25	4.58E-03	4.97E-04	9.58E-04	1.15E-03	5.26E-05	2.08E-03	8.61E-07	0.00931856	2.83E-03	4.97E-04	9.58E-04	1.15E-03	5.26E-05	9.41E-05	2.08E-03	7.67E-03
4919	493363.09, 3862377.25	4.77E-03	5.78E-04	9.51E-04	1.11E-03	5.03E-05	2.06E-03	8.13E-07	0.00951858	3.03E-03	5.78E-04	9.51E-04	1.11E-03	5.03E-05	8.91E-05	2.06E-03	7.86E-03
4920	493863.09, 3862377.25	5.03E-03	6.77E-04	9.19E-04	1.10E-03	4.83E-05	2.02E-03	7.67E-07	0.00979441	3.27E-03	6.77E-04	9.19E-04	1.10E-03	4.83E-05	8.45E-05	2.02E-03	8.12E-03
4921	494363.09, 3862377.25	5.42E-03	8.21E-04	8.82E-04	1.10E-03	4.74E-05	1.99E-03	7.38E-07	0.01026284	3.64E-03	8.21E-04	8.82E-04	1.10E-03	4.74E-05	8.31E-05	1.99E-03	8.56E-03
4922	494863.09, 3862377.25	5.94E-03	1.03E-03	9.02E-04	1.13E-03	4.74E-05	1.94E-03	7.21E-07	0.01098951	4.14E-03	1.03E-03	9.02E-04	1.13E-03	4.74E-05	8.33E-05	1.94E-03	9.28E-03
4923	495363.09, 3862377.25	6.62E-03	1.34E-03	9.16E-04	1.15E-03	4.76E-05	1.88E-03	7.04E-07	0.01194663	4.85E-03	1.34E-03	9.16E-04	1.15E-03	4.76E-05	8.33E-05	1.88E-03	1.03E-02
4924	495863.09, 3862377.25	8.13E-03	2.00E-03	8.98E-04	1.17E-03	4.84E-05	1.81E-03	6.91E-07	0.01406423	6.39E-03	2.00E-03	8.98E-04	1.17E-03	4.84E-05	8.47E-05	1.81E-03	1.24E-02
4925	496363.09, 3862377.25	1.28E-02	3.97E-03	8.62E-04	1.18E-03	4.90E-05	1.76E-03	6.74E-07	0.02058113	1.10E-02	3.97E-03	8.62E-04	1.18E-03	4.90E-05	8.76E-05	1.76E-03	1.89E-02
4926	496863.09, 3862377.25	8.57E-02	3.42E-02	8.42E-04	1.18E-03	5.00E-05	1.72E-03	6.64E-07	0.12366354	8.39E-02	3.42E-02	8.42E-04	1.18E-03	5.00E-05	9.17E-05	1.72E-03	1.22E-01
4927	497363.09, 3862377.25	5.21E-02	2.06E-02	8.06E-04	1.16E-03	4.97E-05	1.66E-03	6.42E-07	0.07646325	5.04E-02	2.06E-02	8.06E-04	1.16E-03	4.97E-05	9.31E-05	1.66E-03	7.48E-02
4928	497863.09, 3862377.25	1.32E-01	5.60E-02	7.79E-04	1.14E-03	4.92E-05	1.61E-03	6.25E-07	0.19125427	1.30E-01	5.60E-02	7.79E-04	1.14E-03	4.92E-05	9.31E-05	1.61E-03	1.90E-01
4929	498363.09, 3862377.25	2.02E-02	7.07E-03	7.51E-04	1.11E-03	4.82E-05	1.56E-03	6.05E-07	0.03075662	1.85E-02	7.07E-03	7.51E-04	1.11E-03	4.82E-05	9.12E-05	1.56E-03	2.91E-02
4930	471363.09, 3862877.25	1.97E-03	7.97E-05	2.25E-04	4.06E-04	1.86E-05	3.42E-04	8.39E-08	0.00304245	1.06E-03	7.97E-05	2.25E-04	4.06E-04	1.86E-05	3.63E-05	3.42E-04	2.17E-03
4931	471863.09, 3862877.25	2.02E-03	8.13E-05	2.30E-04	4.21E-04	1.92E-05	3.57E-04	8.82E-08	0.00312601	1.08E-03	8.13E-05	2.30E-04	4.21E-04	1.92E-05	3.72E-05	3.57E-04	2.23E-03
4932	472363.09, 3862877.25	2.06E-03	8.30E-05	2.35E-04	4.37E-04	1.99E-05	3.73E-04	9.32E-08	0.00321228	1.11E-03	8.30E-05	2.35E-04	4.37E-04	1.99E-05	3.80E-05	3.73E-04	2.29E-03
4933	472863.09, 3862877.25	2.12E-03	8.42E-05	2.41E-04	4.53E-04	2.06E-05	3.88E-04	9.84E-08	0.00331122	1.14E-03	8.42E-05	2.41E-04	4.53E-04	2.06E-05	3.89E-05	3.88E-04	2.36E-03
4934	473363.09, 3862877.25	2.17E-03	8.59E-05	2.47E-04	4.71E-04	2.13E-05	4.03E-04	1.04E-07	0.00340049	1.16E-03	8.59E-05	2.47E-04	4.71E-04	2.13E-05	3.99E-05	4.03E-04	2.43E-03
4935	473863.09, 3862877.25	2.23E-03	8.71E-05	2.53E-04	4.88E-04	2.22E-05	4.19E-04	1.11E-07	0.0034994	1.19E-03	8.71E-05	2.53E-04	4.88E-04	2.22E-05	4.11E-05	4.19E-04	2.50E-03
4936	474363.09, 3862877.25	2.28E-03	8.84E-05	2.58E-04	5.03E-04	2.30E-05	4.34E-04	1.17E-07	0.00358482	1.22E-03	8.84E-05	2.58E-04	5.03E-04	2.30E-05	4.23E-05	4.34E-04	2.57E-03
4937	474863.09, 3862877.25	2.32E-03	9.00E-05	2.62E-04	5.21E-04	2.39E-05	4.51E-04	1.24E-07	0.00367245	1.24E-03	9.00E-05	2.62E-04	5.21E-04	2.39E-05	4.34E-05	4.51E-04	2.63E-03
4938	475363.09, 3862877.25	2.36E-03	9.25E-05	2.67E-04	5.44E-04	2.47E-05	4.74E-04	1.32E-07	0.00375959	1.26E-03	9.25E-05	2.67E-04	5.44E-04	2.47E-05	4.41E-05	4.74E-04	2.71E-03
4939	475863.09, 3862877.25	2.40E-03	9.42E-05	2.71E-04	5.67E-04	2.56E-05	4.96E-04	1.40E-07	0.00385617	1.29E-03	9.42E-05	2.71E-04	5.67E-04	2.56E-05	4.47E-05	4.96E-04	2.78E-03
4940	476363.09, 3862877.25	2.44E-03	9.63E-05	2.76E-04	5.90E-04	2.65E-05	5.19E-04	1.48E-07	0.00394459	1.31E-03	9.63E-05	2.76E-04	5.90E-04	2.65E-05	4.52E-05	5.19E-04	2.86E-03
4941	476863.09, 3862877.25	2.49E-03	9.75E-05	2.82E-04	6.11E-04	2.76E-05	5.40E-04	1.56E-07	0.00405165	1.33E-03	9.75E-05	2.82E-04	6.11E-04	2.76E-05	4.62E-05	5.40E-04	2.94E-03
4942	477363.09, 3862877.25	2.57E-03	9.92E-05	2.87E-04	6.32E-04	2.88E-05	5.58E-04	1.63E-07	0.00417188	1.37E-03	9.92E-05	2.87E-04	6.32E-04	2.88E-05	4.79E-05	5.58E-04	3.02E-03
4943	477863.09, 3862877.25	2.67E-03	9.71E-05	2.82E-04	6.31E-04	2.93E-05	5.25E-04	1.62E-07	0.00423487	1.42E-03	9.71E-05	2.82E-04	6.31E-04	2.93E-05	4.98E-05	5.25E-04	3.03E-03
4944	478363.09, 3862877.25	2.71E-03	9.00E-05	2.52E-04	5.56E-04	2.78E-05	4.15E-04	1.43E-07	0.0040477	1.43E-03	9.00E-05	2.52E-04	5.56E-04	2.78E-05	4.97E-05	4.15E-04	2.82E-03
4945	478863.09, 3862877.25	2.75E-03	9.09E-05	2.57E-04	5.86E-04	2.92E-05	4.40E-04	1.53E-07	0.00415777	1.45E-03	9.09E-05	2.57E-04	5.86E-04	2.92E-05	5.30E-05	4.40E-04	2.91E-03
4946	479363.09, 3862877.25	2.82E-03	9.33E-05	2.67E-04	6.29E-04	3.12E-05	4.81E-04	1.65E-07	0.00431811	1.48E-03	9.33E-05	2.67E-04	6.29E-04	3.12E-05	5.58E-05	4.81E-04	3.04E-03
4947	479863.09, 3862877.25	2.76E-03	1.10E-04	3.24E-04	7.93E-04	3.62E-05	7.80E-04	2.27E-07	0.00480207	1.48E-03	1.10E-04	3.24E-04	7.93E-04	3.62E-05	6.27E-05	7.80E-04	3.59E-03
4948	480363.09, 3862877.25	2.74E-03	1.15E-04	3.35E-04	8.27E-04	3.77E-05	8.53E-04	2.47E-07	0.00491143	1.48E-03	1.15E-04	3.35E-04	8.27E-04	3.77E-05	6.60E-05	8.53E-04	3.71E-03
4949	480863.09, 3862877.25	2.75E-03	1.17E-04	3.46E-04	8.65E-04	3.92E-05	9.10E-04	2.65E-07	0.00502724	1.48E-03	1.17E-04	3.46E-04	8.65E-04	3.92E-05	7.04E-05	9.10E-04	3.83E-03
4950	481363.09, 3862877.25	2.73E-03	1.22E-04	3.57E-04	9.00E-04	4.03E-05	9.64E-04	2.78E-07	0.00511734	1.48E-03	1.22E-04	3.57E-04	9.00E-04	4.03E-05	7.39E-05	9.64E-04	3.94E-03
4951	481863.09, 3862877.25	2.82E-03	1.26E-04	3.70E-04	9.41E-04	4.23E-05	9.98E-04	2.85E-07	0.00530087	1.53E-03	1.26E-04	3.70E-04	9.41E-04	4.23E-05	7.67E-05	9.98E-04	4.08E-03
4952	482363.09, 3862877.25	2.81E-03	1.29E-04	3.81E-04	9.71E-04	4.36E-05	1.05E-03	2.87E-07	0.00539149	1.53E-03	1.29E-04	3.81E-04	9.71E-04	4.36E-05	7.73E-05	1.05E-03	4.18E-03
4953	482863.09, 3862877.25	2.85E-03	1.33E-04	3.93E-04	1.00E-03	4.53E-05	1.10E-03	2.94E-07	0.00552502	1.55E-03	1.33E-04	3.93E-04	1.00E-03	4.53E-05	8.01E-05	1.10E-03	4.31E-03
4954	483363.09, 3862877.25	2.86E-03	1.36E-04	4.08E-04	1.03E-03	4.65E-05	1.16E-03	3.10E-07	0.00563425	1.56E-03	1.36E-04	4.08E-04	1.03E-03	4.65E-05	8.17E-05	1.16E-03	4.42E-03
4955	483863.09, 3862877.25	2.82E-03	1.40E-04	4.26E-04	1.04E-03	4.72E-05	1.21E-03	3.37E-07	0.00567886	1.55E-03	1.40E-04	4.26E-04	1.04E-03	4.72E-05	8.09E-05	1.21E-03	4.49E-03
4956	484363.09, 3862877.25	2.81E-03	1.45E-04	4.45E-04	1.04E-03	4.79E-05	1.25E-03	3.68E-07	0.00574108	1.55E-03	1.45E-04	4.45E-04	1.04E-03	4.79E-05	8.01E-05	1.25E-03	4.56E-03
4957	484863.09, 3862877.25	2.74E-03	1.51E-04	4.62E-04	1.03E-03	4.73E-05	1.31E-03	3.94E-07	0.00574142	1.52E-03	1.51E-04	4.62E-04	1.03E-03	4.73E-05	7.90E-05	1.31E-03	4.60E-03
4958	485363.09, 3862877.25	2.66E-03	1.56E-04	4.82E-04	1.03E-03	4.72E-05	1.40E-03	4.30E-07	0.00577029	1.49E-03	1.56E-04	4.82E-04	1.03E-03	4.72E-05	7.68E-05	1.40E-03	4.67E-03

4959	485863.09, 3862877.25	2.56E-03	1.61E-04	5.05E-04	1.02E-03	4.70E-05	1.46E-03	4.74E-07	0.00575663	1.44E-03	1.61E-04	5.05E-04	1.02E-03	4.70E-05	7.24E-05	1.46E-03	4.71E-03
4960	486363.09, 3862877.25	2.51E-03	1.66E-04	5.36E-04	1.02E-03	4.70E-05	1.54E-03	5.23E-07	0.00581907	1.43E-03	1.66E-04	5.36E-04	1.02E-03	4.70E-05	7.10E-05	1.54E-03	4.80E-03
4961	486863.09, 3862877.25	2.47E-03	1.73E-04	5.66E-04	1.00E-03	4.62E-05	1.54E-03	5.83E-07	0.00579575	1.42E-03	1.73E-04	5.66E-04	1.00E-03	4.62E-05	7.02E-05	1.54E-03	4.81E-03
4962	487363.09, 3862877.25	2.51E-03	1.82E-04	5.97E-04	9.89E-04	4.58E-05	1.58E-03	6.43E-07	0.0059089	1.45E-03	1.82E-04	5.97E-04	9.89E-04	4.58E-05	7.20E-05	1.58E-03	4.91E-03
4963	487863.09, 3862877.25	2.55E-03	1.91E-04	6.32E-04	9.87E-04	4.54E-05	1.60E-03	7.14E-07	0.0060019	1.48E-03	1.91E-04	6.32E-04	9.87E-04	4.54E-05	7.44E-05	1.60E-03	5.00E-03
4964	488363.09, 3862877.25	2.61E-03	2.00E-04	6.71E-04	9.91E-04	4.52E-05	1.55E-03	8.75E-07	0.00606769	1.52E-03	2.00E-04	6.71E-04	9.91E-04	4.52E-05	7.39E-05	1.55E-03	5.05E-03
4965	488863.09, 3862877.25	2.86E-03	2.10E-04	7.06E-04	9.98E-04	4.49E-05	1.54E-03	1.35E-06	0.00635938	1.65E-03	2.10E-04	7.06E-04	9.98E-04	4.49E-05	7.14E-05	1.54E-03	5.22E-03
4966	489363.09, 3862877.25	3.76E-03	2.22E-04	7.33E-04	1.00E-03	4.45E-05	1.57E-03	4.27E-06	0.00733626	2.11E-03	2.22E-04	7.33E-04	1.00E-03	4.45E-05	7.22E-05	1.57E-03	5.75E-03
4967	489863.09, 3862877.25	3.62E-03	2.36E-04	7.56E-04	1.01E-03	4.46E-05	1.60E-03	1.77E-06	0.00726416	2.05E-03	2.36E-04	7.56E-04	1.01E-03	4.46E-05	7.52E-05	1.60E-03	5.77E-03
4968	490363.09, 3862877.25	3.66E-03	2.51E-04	7.66E-04	1.03E-03	4.50E-05	1.63E-03	1.28E-06	0.00738199	2.09E-03	2.51E-04	7.66E-04	1.03E-03	4.50E-05	7.63E-05	1.63E-03	5.89E-03
4969	490863.09, 3862877.25	3.55E-03	2.68E-04	7.60E-04	1.03E-03	4.55E-05	1.67E-03	1.04E-06	0.0073296	2.05E-03	2.68E-04	7.60E-04	1.03E-03	4.55E-05	7.67E-05	1.67E-03	5.91E-03
4970	491363.09, 3862877.25	3.42E-03	2.85E-04	7.59E-04	1.05E-03	4.62E-05	1.69E-03	9.20E-07	0.0072483	2.01E-03	2.85E-04	7.59E-04	1.05E-03	4.62E-05	7.92E-05	1.69E-03	5.92E-03
4971	491863.09, 3862877.25	3.36E-03	3.07E-04	7.38E-04	1.05E-03	4.56E-05	1.64E-03	8.21E-07	0.00714587	2.01E-03	3.07E-04	7.38E-04	1.05E-03	4.56E-05	7.77E-05	1.64E-03	5.87E-03
4972	492363.09, 3862877.25	3.42E-03	3.30E-04	7.44E-04	1.07E-03	4.59E-05	1.60E-03	7.64E-07	0.00721877	2.07E-03	3.30E-04	7.44E-04	1.07E-03	4.59E-05	7.90E-05	1.60E-03	5.95E-03
4973	492863.09, 3862877.25	3.56E-03	3.60E-04	7.42E-04	1.06E-03	4.66E-05	1.61E-03	7.23E-07	0.00737093	2.17E-03	3.60E-04	7.42E-04	1.06E-03	4.66E-05	8.30E-05	1.61E-03	6.07E-03
4974	493363.09, 3862877.25	3.67E-03	3.98E-04	7.58E-04	1.01E-03	4.63E-05	1.63E-03	6.98E-07	0.00751144	2.27E-03	3.98E-04	7.58E-04	1.01E-03	4.63E-05	8.37E-05	1.63E-03	6.20E-03
4975	493863.09, 3862877.25	3.76E-03	4.32E-04	7.55E-04	9.79E-04	4.47E-05	1.64E-03	6.68E-07	0.00761293	2.36E-03	4.32E-04	7.55E-04	9.79E-04	4.47E-05	8.01E-05	1.64E-03	6.29E-03
4976	494363.09, 3862877.25	3.89E-03	4.79E-04	7.31E-04	9.59E-04	4.28E-05	1.62E-03	6.33E-07	0.00772733	2.48E-03	4.79E-04	7.31E-04	9.59E-04	4.28E-05	7.57E-05	1.62E-03	6.39E-03
4977	494863.09, 3862877.25	4.08E-03	5.47E-04	6.92E-04	9.49E-04	4.14E-05	1.60E-03	6.04E-07	0.00790564	2.65E-03	5.47E-04	6.92E-04	9.49E-04	4.14E-05	7.32E-05	1.60E-03	6.56E-03
4978	495363.09, 3862877.25	4.29E-03	6.23E-04	6.84E-04	9.57E-04	4.10E-05	1.58E-03	5.88E-07	0.00817925	2.85E-03	6.23E-04	6.84E-04	9.57E-04	4.10E-05	7.30E-05	1.58E-03	6.81E-03
4979	495863.09, 3862877.25	4.49E-03	7.04E-04	7.04E-04	9.79E-04	4.12E-05	1.55E-03	5.77E-07	0.00846459	3.04E-03	7.04E-04	7.04E-04	9.79E-04	4.12E-05	7.32E-05	1.55E-03	7.09E-03
4980	496363.09, 3862877.25	4.68E-03	7.99E-04	7.14E-04	1.00E-03	4.17E-05	1.51E-03	5.70E-07	0.00875055	3.25E-03	7.99E-04	7.14E-04	1.00E-03	4.17E-05	7.38E-05	1.51E-03	7.39E-03
4981	496863.09, 3862877.25	4.93E-03	9.22E-04	7.00E-04	1.02E-03	4.23E-05	1.47E-03	5.61E-07	0.00908198	3.52E-03	9.22E-04	7.00E-04	1.02E-03	4.23E-05	7.53E-05	1.47E-03	7.75E-03
4982	497363.09, 3862877.25	5.09E-03	1.00E-03	6.74E-04	1.02E-03	4.27E-05	1.42E-03	5.47E-07	0.00925753	3.70E-03	1.00E-03	6.74E-04	1.02E-03	4.27E-05	7.77E-05	1.42E-03	7.94E-03
4983	497863.09, 3862877.25	5.09E-03	1.00E-03	6.52E-04	1.01E-03	4.30E-05	1.38E-03	5.34E-07	0.00918942	3.70E-03	1.00E-03	6.52E-04	1.01E-03	4.30E-05	8.01E-05	1.38E-03	7.88E-03
4984	498363.09, 3862877.25	5.02E-03	9.64E-04	6.36E-04	1.00E-03	4.31E-05	1.35E-03	5.23E-07	0.00902606	3.62E-03	9.64E-04	6.36E-04	1.00E-03	4.31E-05	8.18E-05	1.35E-03	7.70E-03
4985	471363.09, 3863377.25	1.90E-03	7.80E-05	2.15E-04	3.92E-04	1.78E-05	3.37E-04	8.65E-08	0.00293912	1.02E-03	7.80E-05	2.15E-04	3.92E-04	1.78E-05	3.43E-05	3.37E-04	2.09E-03
4986	471863.09, 3863377.25	1.93E-03	7.97E-05	2.20E-04	4.05E-04	1.84E-05	3.50E-04	9.11E-08	0.0030054	1.04E-03	7.97E-05	2.20E-04	4.05E-04	1.84E-05	3.50E-05	3.50E-04	2.15E-03
4987	472363.09, 3863377.25	1.98E-03	8.05E-05	2.25E-04	4.19E-04	1.90E-05	3.63E-04	9.63E-08	0.00308453	1.06E-03	8.05E-05	2.25E-04	4.19E-04	1.90E-05	3.57E-05	3.63E-04	2.20E-03
4988	472863.09, 3863377.25	2.02E-03	8.21E-05	2.31E-04	4.33E-04	1.97E-05	3.77E-04	1.02E-07	0.00316681	1.09E-03	8.21E-05	2.31E-04	4.33E-04	1.97E-05	3.66E-05	3.77E-04	2.27E-03
4989	473363.09, 3863377.25	2.06E-03	8.34E-05	2.36E-04	4.47E-04	2.03E-05	3.92E-04	1.07E-07	0.00323556	1.10E-03	8.34E-05	2.36E-04	4.47E-04	2.03E-05	3.74E-05	3.92E-04	2.32E-03
4990	473863.09, 3863377.25	2.10E-03	8.51E-05	2.42E-04	4.61E-04	2.10E-05	4.06E-04	1.13E-07	0.00331831	1.13E-03	8.51E-05	2.42E-04	4.61E-04	2.10E-05	3.82E-05	4.06E-04	2.38E-03
4991	474363.09, 3863377.25	2.13E-03	8.63E-05	2.47E-04	4.76E-04	2.17E-05	4.20E-04	1.19E-07	0.00338427	1.14E-03	8.63E-05	2.47E-04	4.76E-04	2.17E-05	3.88E-05	4.20E-04	2.43E-03
4992	474863.09, 3863377.25	2.15E-03	8.75E-05	2.52E-04	4.93E-04	2.24E-05	4.40E-04	1.26E-07	0.0034446	1.15E-03	8.75E-05	2.52E-04	4.93E-04	2.24E-05	3.91E-05	4.40E-04	2.49E-03
4993	475363.09, 3863377.25	2.19E-03	8.92E-05	2.56E-04	5.12E-04	2.31E-05	4.58E-04	1.32E-07	0.0035333	1.18E-03	8.92E-05	2.56E-04	5.12E-04	2.31E-05	3.96E-05	4.58E-04	2.56E-03
4994	475863.09, 3863377.25	2.23E-03	9.09E-05	2.61E-04	5.31E-04	2.39E-05	4.80E-04	1.38E-07	0.00361387	1.20E-03	9.09E-05	2.61E-04	5.31E-04	2.39E-05	4.03E-05	4.80E-04	2.62E-03
4995	476363.09, 3863377.25	2.25E-03	9.29E-05	2.67E-04	5.51E-04	2.47E-05	5.07E-04	1.44E-07	0.00369017	1.21E-03	9.29E-05	2.67E-04	5.51E-04	2.47E-05	4.13E-05	5.07E-04	2.69E-03
4996	476863.09, 3863377.25	2.28E-03	9.46E-05	2.72E-04	5.73E-04	2.57E-05	5.36E-04	1.52E-07	0.00378106	1.23E-03	9.46E-05	2.72E-04	5.73E-04	2.57E-05	4.29E-05	5.36E-04	2.77E-03
4997	477363.09, 3863377.25	2.33E-03	9.63E-05	2.77E-04	5.94E-04	2.69E-05	5.62E-04	1.60E-07	0.00388462	1.25E-03	9.63E-05	2.77E-04	5.94E-04	2.69E-05	4.52E-05	5.62E-04	2.85E-03
4998	477863.09, 3863377.25	2.40E-03	9.67E-05	2.80E-04	6.09E-04	2.80E-05	5.71E-04	1.68E-07	0.00398462	1.29E-03	9.67E-05	2.80E-04	6.09E-04	2.80E-05	4.80E-05	5.71E-04	2.92E-03
4999	478363.09, 3863377.25	2.49E-03	9.33E-05	2.71E-04	6.06E-04	2.85E-05	5.23E-04	1.65E-07	0.00400924	1.33E-03	9.33E-05	2.71E-04	6.06E-04	2.85E-05	5.03E-05	5.23E-04	2.90E-03
5000	478863.09, 3863377.25	2.51E-03	9.54E-05	2.81E-04	6.43E-04	3.02E-05	5.72E-04	1.81E-07	0.00413052	1.34E-03	9.54E-05	2.81E-04	6.43E-04	3.02E-05	5.25E-05	5.72E-04	3.01E-03
5001	479363.09, 3863377.25	2.50E-03	1.02E-04	3.02E-04	6.93E-04	3.21E-05	6.72E-04	2.08E-07	0.00429821	1.34E-03	1.02E-04	3.02E-04	6.93E-04	3.21E-05	5.54E-05	6.72E-04	3.20E-03
5002	479863.09, 3863377.25	2.46E-03	1.07E-04	3.15E-04	7.28E-04	3.32E-05	7.53E-04	2.25E-07	0.0043937	1.33E-03	1.07E-04	3.15E-04	7.28E-04	3.32E-05	5.79E-05	7.53E-04	3.32E-03
5003	480363.09, 3863377.25	2.45E-03	1.10E-04	3.23E-04	7.56E-04	3.44E-05	7.95E-04	2.35E-07	0.00447207	1.33E-03	1.10E-04	3.23E-04	7.56E-04	3.44E-05	6.13E-05	7.95E-04	3.41E-03
5004	480863.09, 3863377.25	2.46E-03	1.13E-04	3.32E-04	7.89E-04	3.57E-05	8.32E-04	2.39E-07	0.00456027	1.34E-03	1.13E-04	3.32E-04	7.89E-04	3.57E-05	6.52E-05	8.32E-04	3.50E-03
5005	481363.09, 3863377.25	2.44E-03	1.17E-04	3.40E-04	8.17E-04	3.66E-05	8.66E-04	2.39E-07	0.00461419	1.33E-03	1.17E-04	3.40E-04	8.17E-04	3.66E-05	6.71E-05	8.66E-04	3.57E-03
5006	481863.09, 3863377.25	2.47E-03	1.20E-04	3.48E-04	8.46E-04	3.81E-05	8.98E-04	2.42E-07	0.00472335	1.35E-03	1.20E-04	3.48E-04	8.46E-04	3.81E-05	6.79E-05	8.98E-04	3.67E-03
5007	482363.09, 3863377.25	2.49E-03	1.24E-04	3.57E-04	8.74E-04	3.96E-05	9.36E-04	2.51E-07	0.00482247	1.37E-03	1.24E-04	3.57E-04	8.74E-04	3.96E-05	6.94E-05	9.36E-04	3.77E-03
5008	482863.09, 3863377.25	2.48E-03	1.27E-04	3.66E-04	8.96E-04	4.06E-05	9.75E-04	2.67E-07	0.0048899	1.37E-03	1.27E-04	3.66E-04	8.96E-04	4.06E-05	7.15E-05	9.75E-04	3.84E-03
5009	483363.09, 3863377.25	2.50E-03	1.30E-04	3.78E-04	9.13E-04	4.15E-05	1.01E-03	2.90E-07	0.00496915	1.38E-03	1.30E-04	3.78E-04	9.13E-04	4.15E-05	7.20E-05	1.01E-03	3.92E-03
5010	483863.09, 3863377.25	2.47E-03	1.33E-04	3.91E-04	9.17E-04	4.21E-05	1.04E-03	3.13E-07	0.00499527	1.37E-03	1.33E-04	3.91E-04	9.17E-04	4.21E-05	7.11E-05	1.04E-03	3.96E-03
5011	484363.09, 3863377.25	2.40E-03	1.38E-04	4.04E-04	9.14E-04	4.23E-05	1.08E-03	3.32E-07	0.00497839	1.34E-03	1.38E-04	4.04E-04	9.14E-04	4.23E-05	7.05E-05	1.08E-03	3.99E-03
5012	484863.09, 3863377.25	2.32E-03	1.42E-04	4.20E-04	9.11E-04	4.22E-05	1.14E-03	3.58E-07	0.00498026	1.31E-03	1.42E-04	4.20E-04	9.11E-04	4.22E-05	7.09E-05	1.14E-03	4.03E-03

5013	485363.09, 3863377.25	2.23E-03	1.47E-04	4.36E-04	9.02E-04	4.18E-05	1.19E-03	3.90E-07	0.00495276	1.27E-03	1.47E-04	4.36E-04	9.02E-04	4.18E-05	6.78E-05	1.19E-03	4.06E-03
5014	485863.09, 3863377.25	2.17E-03	1.51E-04	4.55E-04	8.97E-04	4.16E-05	1.25E-03	4.26E-07	0.00496295	1.24E-03	1.51E-04	4.55E-04	8.97E-04	4.16E-05	6.42E-05	1.25E-03	4.10E-03
5015	486363.09, 3863377.25	2.10E-03	1.55E-04	4.76E-04	8.93E-04	4.13E-05	1.28E-03	4.68E-07	0.00493983	1.21E-03	1.55E-04	4.76E-04	8.93E-04	4.13E-05	6.27E-05	1.28E-03	4.12E-03
5016	486863.09, 3863377.25	2.05E-03	1.60E-04	4.99E-04	8.82E-04	4.10E-05	1.27E-03	5.12E-07	0.0049	1.20E-03	1.60E-04	4.99E-04	8.82E-04	4.10E-05	6.22E-05	1.27E-03	4.11E-03
5017	487363.09, 3863377.25	2.06E-03	1.67E-04	5.23E-04	8.71E-04	4.06E-05	1.28E-03	5.45E-07	0.00494185	1.21E-03	1.67E-04	5.23E-04	8.71E-04	4.06E-05	6.38E-05	1.28E-03	4.15E-03
5018	487863.09, 3863377.25	2.12E-03	1.74E-04	5.52E-04	8.66E-04	4.02E-05	1.29E-03	6.09E-07	0.00504069	1.24E-03	1.74E-04	5.52E-04	8.66E-04	4.02E-05	6.61E-05	1.29E-03	4.24E-03
5019	488363.09, 3863377.25	2.18E-03	1.81E-04	5.79E-04	8.68E-04	4.00E-05	1.26E-03	7.19E-07	0.00510996	1.28E-03	1.81E-04	5.79E-04	8.68E-04	4.00E-05	6.64E-05	1.26E-03	4.28E-03
5020	488863.09, 3863377.25	2.35E-03	1.89E-04	6.04E-04	8.75E-04	3.98E-05	1.24E-03	1.09E-06	0.00530165	1.38E-03	1.89E-04	6.04E-04	8.75E-04	3.98E-05	6.41E-05	1.24E-03	4.39E-03
5021	489363.09, 3863377.25	3.09E-03	1.97E-04	6.19E-04	8.77E-04	3.94E-05	1.26E-03	3.91E-06	0.0060883	1.75E-03	1.97E-04	6.19E-04	8.77E-04	3.94E-05	6.31E-05	1.26E-03	4.81E-03
5022	489863.09, 3863377.25	2.98E-03	2.07E-04	6.25E-04	8.82E-04	3.92E-05	1.28E-03	1.39E-06	0.00601907	1.71E-03	2.07E-04	6.25E-04	8.82E-04	3.92E-05	6.53E-05	1.28E-03	4.81E-03
5023	490363.09, 3863377.25	3.11E-03	2.18E-04	6.28E-04	8.93E-04	3.94E-05	1.30E-03	9.90E-07	0.00618903	1.78E-03	2.18E-04	6.28E-04	8.93E-04	3.94E-05	6.76E-05	1.30E-03	4.93E-03
5024	490863.09, 3863377.25	3.12E-03	2.29E-04	6.28E-04	9.07E-04	4.00E-05	1.34E-03	8.18E-07	0.00625919	1.80E-03	2.29E-04	6.28E-04	9.07E-04	4.00E-05	6.78E-05	1.34E-03	5.01E-03
5025	491363.09, 3863377.25	2.95E-03	2.41E-04	6.14E-04	9.08E-04	4.02E-05	1.36E-03	7.21E-07	0.00612209	1.73E-03	2.41E-04	6.14E-04	9.08E-04	4.02E-05	6.85E-05	1.36E-03	4.97E-03
5026	491863.09, 3863377.25	2.83E-03	2.53E-04	6.06E-04	9.12E-04	4.04E-05	1.37E-03	6.65E-07	0.00601484	1.68E-03	2.53E-04	6.06E-04	9.12E-04	4.04E-05	6.99E-05	1.37E-03	4.94E-03
5027	492363.09, 3863377.25	2.84E-03	2.63E-04	6.21E-04	9.37E-04	4.08E-05	1.35E-03	6.34E-07	0.00605218	1.70E-03	2.63E-04	6.21E-04	9.37E-04	4.08E-05	6.99E-05	1.35E-03	4.99E-03
5028	492863.09, 3863377.25	2.90E-03	2.57E-04	6.30E-04	9.71E-04	4.19E-05	1.33E-03	6.21E-07	0.00612742	1.73E-03	2.57E-04	6.30E-04	9.71E-04	4.19E-05	7.26E-05	1.33E-03	5.03E-03
5029	493363.09, 3863377.25	2.97E-03	2.46E-04	6.38E-04	9.71E-04	4.32E-05	1.31E-03	6.01E-07	0.0061851	1.75E-03	2.46E-04	6.38E-04	9.71E-04	4.32E-05	7.74E-05	1.31E-03	5.04E-03
5030	493863.09, 3863377.25	3.03E-03	2.62E-04	6.41E-04	9.31E-04	4.29E-05	1.33E-03	5.87E-07	0.00623844	1.80E-03	2.62E-04	6.41E-04	9.31E-04	4.29E-05	7.81E-05	1.33E-03	5.08E-03
5031	494363.09, 3863377.25	3.05E-03	2.92E-04	6.34E-04	8.85E-04	4.09E-05	1.35E-03	5.63E-07	0.00625077	1.84E-03	2.92E-04	6.34E-04	8.85E-04	4.09E-05	7.40E-05	1.35E-03	5.11E-03
5032	494863.09, 3863377.25	3.09E-03	2.97E-04	6.19E-04	8.65E-04	3.93E-05	1.35E-03	5.41E-07	0.00626378	1.87E-03	2.97E-04	6.19E-04	8.65E-04	3.93E-05	7.01E-05	1.35E-03	5.11E-03
5033	495363.09, 3863377.25	3.13E-03	2.91E-04	5.94E-04	8.64E-04	3.85E-05	1.35E-03	5.28E-07	0.00626727	1.88E-03	2.91E-04	5.94E-04	8.64E-04	3.85E-05	6.83E-05	1.35E-03	5.09E-03
5034	495863.09, 3863377.25	3.21E-03	2.95E-04	5.82E-04	8.70E-04	3.81E-05	1.35E-03	5.18E-07	0.0063407	1.93E-03	2.95E-04	5.82E-04	8.70E-04	3.81E-05	6.82E-05	1.35E-03	5.12E-03
5035	496363.09, 3863377.25	3.39E-03	4.14E-04	5.73E-04	8.59E-04	3.67E-05	1.32E-03	4.90E-07	0.00659534	2.16E-03	4.14E-04	5.73E-04	8.59E-04	3.67E-05	6.61E-05	1.32E-03	5.43E-03
5036	496863.09, 3863377.25	3.37E-03	4.28E-04	5.74E-04	8.62E-04	3.63E-05	1.28E-03	4.72E-07	0.00654622	2.16E-03	4.28E-04	5.74E-04	8.62E-04	3.63E-05	6.50E-05	1.28E-03	5.40E-03
5037	497363.09, 3863377.25	3.31E-03	4.22E-04	5.78E-04	8.82E-04	3.67E-05	1.25E-03	4.68E-07	0.00647946	2.13E-03	4.22E-04	5.78E-04	8.82E-04	3.67E-05	6.56E-05	1.25E-03	5.36E-03
5038	497863.09, 3863377.25	3.25E-03	4.09E-04	5.69E-04	8.97E-04	3.73E-05	1.22E-03	4.63E-07	0.00638542	2.08E-03	4.09E-04	5.69E-04	8.97E-04	3.73E-05	6.75E-05	1.22E-03	5.28E-03
5039	498363.09, 3863377.25	3.23E-03	4.06E-04	5.52E-04	9.00E-04	3.78E-05	1.19E-03	4.55E-07	0.00631446	2.07E-03	4.06E-04	5.52E-04	9.00E-04	3.78E-05	6.97E-05	1.19E-03	5.22E-03
5040	471363.09, 3863877.25	1.81E-03	7.55E-05	2.07E-04	3.75E-04	1.71E-05	3.31E-04	8.93E-08	0.00281847	9.76E-04	7.55E-05	2.07E-04	3.75E-04	1.71E-05	3.22E-05	3.31E-04	2.01E-03
5041	471863.09, 3863877.25	1.86E-03	7.72E-05	2.11E-04	3.86E-04	1.77E-05	3.39E-04	9.37E-08	0.0028911	1.00E-03	7.72E-05	2.11E-04	3.86E-04	1.77E-05	3.29E-05	3.39E-04	2.06E-03
5042	472363.09, 3863877.25	1.89E-03	7.80E-05	2.17E-04	3.98E-04	1.82E-05	3.51E-04	9.85E-08	0.00295228	1.02E-03	7.80E-05	2.17E-04	3.98E-04	1.82E-05	3.35E-05	3.51E-04	2.11E-03
5043	472863.09, 3863877.25	1.92E-03	7.97E-05	2.23E-04	4.10E-04	1.87E-05	3.63E-04	1.03E-07	0.00301589	1.03E-03	7.97E-05	2.23E-04	4.10E-04	1.87E-05	3.41E-05	3.63E-04	2.16E-03
5044	473363.09, 3863877.25	1.94E-03	8.09E-05	2.28E-04	4.22E-04	1.92E-05	3.77E-04	1.08E-07	0.0030669	1.04E-03	8.09E-05	2.28E-04	4.22E-04	1.92E-05	3.44E-05	3.77E-04	2.21E-03
5045	473863.09, 3863877.25	1.98E-03	8.26E-05	2.33E-04	4.35E-04	1.98E-05	3.90E-04	1.13E-07	0.00314509	1.07E-03	8.26E-05	2.33E-04	4.35E-04	1.98E-05	3.47E-05	3.90E-04	2.26E-03
5046	474363.09, 3863877.25	2.00E-03	8.34E-05	2.38E-04	4.49E-04	2.04E-05	4.06E-04	1.18E-07	0.00319662	1.08E-03	8.34E-05	2.38E-04	4.49E-04	2.04E-05	3.50E-05	4.06E-04	2.31E-03
5047	474863.09, 3863877.25	2.00E-03	8.51E-05	2.42E-04	4.63E-04	2.09E-05	4.27E-04	1.23E-07	0.00324243	1.08E-03	8.51E-05	2.42E-04	4.63E-04	2.09E-05	3.54E-05	4.27E-04	2.35E-03
5048	475363.09, 3863877.25	2.04E-03	8.67E-05	2.47E-04	4.80E-04	2.16E-05	4.47E-04	1.28E-07	0.0033183	1.10E-03	8.67E-05	2.47E-04	4.80E-04	2.16E-05	3.63E-05	4.47E-04	2.42E-03
5049	475863.09, 3863877.25	2.04E-03	8.84E-05	2.51E-04	4.96E-04	2.22E-05	4.74E-04	1.34E-07	0.00337327	1.10E-03	8.84E-05	2.51E-04	4.96E-04	2.22E-05	3.73E-05	4.74E-04	2.47E-03
5050	476363.09, 3863877.25	2.08E-03	9.00E-05	2.56E-04	5.13E-04	2.31E-05	4.98E-04	1.41E-07	0.00345571	1.12E-03	9.00E-05	2.56E-04	5.13E-04	2.31E-05	3.88E-05	4.98E-04	2.54E-03
5051	476863.09, 3863877.25	2.08E-03	9.17E-05	2.61E-04	5.32E-04	2.41E-05	5.24E-04	1.50E-07	0.00351367	1.13E-03	9.17E-05	2.61E-04	5.32E-04	2.41E-05	4.07E-05	5.24E-04	2.60E-03
5052	477363.09, 3863877.25	2.13E-03	9.29E-05	2.66E-04	5.52E-04	2.51E-05	5.48E-04	1.60E-07	0.00361262	1.15E-03	9.29E-05	2.66E-04	5.52E-04	2.51E-05	4.29E-05	5.48E-04	2.68E-03
5053	477863.09, 3863877.25	2.19E-03	9.42E-05	2.71E-04	5.74E-04	2.63E-05	5.62E-04	1.70E-07	0.00371446	1.18E-03	9.42E-05	2.71E-04	5.74E-04	2.63E-05	4.53E-05	5.62E-04	2.75E-03
5054	478363.09, 3863877.25	2.26E-03	9.25E-05	2.70E-04	5.85E-04	2.74E-05	5.45E-04	1.78E-07	0.00378303	1.21E-03	9.25E-05	2.70E-04	5.85E-04	2.74E-05	4.73E-05	5.45E-04	2.78E-03
5055	478863.09, 3863877.25	2.25E-03	9.75E-05	2.86E-04	6.25E-04	2.87E-05	6.17E-04	1.94E-07	0.00390494	1.22E-03	9.75E-05	2.86E-04	6.25E-04	2.87E-05	4.93E-05	6.17E-04	2.92E-03
5056	479363.09, 3863877.25	2.25E-03	1.00E-04	2.96E-04	6.49E-04	2.97E-05	6.63E-04	2.02E-07	0.00398411	1.22E-03	1.00E-04	2.96E-04	6.49E-04	2.97E-05	5.15E-05	6.63E-04	3.01E-03
5057	479863.09, 3863877.25	2.24E-03	1.04E-04	3.03E-04	6.71E-04	3.07E-05	6.96E-04	2.05E-07	0.00404544	1.22E-03	1.04E-04	3.03E-04	6.71E-04	3.07E-05	5.43E-05	6.96E-04	3.08E-03
5058	480363.09, 3863877.25	2.23E-03	1.06E-04	3.08E-04	6.95E-04	3.16E-05	7.26E-04	2.04E-07	0.00409893	1.22E-03	1.06E-04	3.08E-04	6.95E-04	3.16E-05	5.73E-05	7.26E-04	3.14E-03
5059	480863.09, 3863877.25	2.19E-03	1.09E-04	3.14E-04	7.22E-04	3.27E-05	7.52E-04	2.05E-07	0.00412424	1.20E-03	1.09E-04	3.14E-04	7.22E-04	3.27E-05	5.99E-05	7.52E-04	3.19E-03
5060	481363.09, 3863877.25	2.17E-03	1.12E-04	3.19E-04	7.46E-04	3.37E-05	7.75E-04	2.09E-07	0.00415785	1.20E-03	1.12E-04	3.19E-04	7.46E-04	3.37E-05	6.07E-05	7.75E-04	3.24E-03
5061	481863.09, 3863877.25	2.19E-03	1.15E-04	3.25E-04	7.68E-04	3.48E-05	8.00E-04	2.20E-07	0.00423555	1.21E-03	1.15E-04	3.25E-04	7.68E-04	3.48E-05	6.10E-05	8.00E-04	3.31E-03
5062	482363.09, 3863877.25	2.21E-03	1.17E-04	3.32E-04	7.91E-04	3.60E-05	8.30E-04	2.35E-07	0.00431831	1.22E-03	1.17E-04	3.32E-04	7.91E-04	3.60E-05	6.29E-05	8.30E-04	3.39E-03
5063	482863.09, 3863877.25	2.21E-03	1.20E-04	3.39E-04	8.07E-04	3.67E-05	8.59E-04	2.52E-07	0.00436848	1.22E-03	1.20E-04	3.39E-04	8.07E-04	3.67E-05	6.42E-05	8.59E-04	3.45E-03
5064	483363.09, 3863877.25	2.20E-03	1.23E-04	3.47E-04	8.15E-04	3.72E-05	8.88E-04	2.69E-07	0.00441494	1.22E-03	1.23E-04	3.47E-04	8.15E-04	3.72E-05	6.37E-05	8.88E-04	3.50E-03
5065	483863.09, 3863877.25	2.16E-03	1.25E-04	3.58E-04	8.17E-04	3.78E-05	9.20E-04	2.85E-07	0.00441745	1.21E-03	1.25E-04	3.58E-04	8.17E-04	3.78E-05	6.30E-05	9.20E-04	3.53E-03
5066	484363.09, 3863877.25	2.05E-03	1.29E-04	3.69E-04	8.11E-04	3.78E-05	9.58E-04	3.02E-07	0.00435909	1.16E-03	1.29E-04	3.69E-04	8.11E-04	3.78E-05	6.32E-05	9.58E-04	3.53E-03

5067	484863.09, 3863877.25	1.97E-03	1.32E-04	3.83E-04	8.06E-04	3.77E-05	9.97E-04	3.28E-07	0.00433016	1.12E-03	1.32E-04	3.83E-04	8.06E-04	3.77E-05	6.35E-05	9.97E-04	3.54E-03
5068	485363.09, 3863877.25	1.92E-03	1.36E-04	3.95E-04	7.99E-04	3.74E-05	1.03E-03	3.57E-07	0.00432489	1.10E-03	1.36E-04	3.95E-04	7.99E-04	3.74E-05	6.05E-05	1.03E-03	3.56E-03
5069	485863.09, 3863877.25	1.89E-03	1.39E-04	4.10E-04	7.97E-04	3.73E-05	1.08E-03	3.87E-07	0.00435244	1.09E-03	1.39E-04	4.10E-04	7.97E-04	3.73E-05	5.77E-05	1.08E-03	3.61E-03
5070	486363.09, 3863877.25	1.80E-03	1.42E-04	4.28E-04	7.91E-04	3.68E-05	1.07E-03	4.17E-07	0.00427288	1.05E-03	1.42E-04	4.28E-04	7.91E-04	3.68E-05	5.60E-05	1.07E-03	3.58E-03
5071	486863.09, 3863877.25	1.73E-03	1.46E-04	4.47E-04	7.81E-04	3.65E-05	1.07E-03	4.42E-07	0.00420421	1.02E-03	1.46E-04	4.47E-04	7.81E-04	3.65E-05	5.52E-05	1.07E-03	3.55E-03
5072	487363.09, 3863877.25	1.71E-03	1.51E-04	4.66E-04	7.73E-04	3.62E-05	1.06E-03	4.65E-07	0.00420649	1.02E-03	1.51E-04	4.66E-04	7.73E-04	3.62E-05	5.66E-05	1.06E-03	3.57E-03
5073	487863.09, 3863877.25	1.79E-03	1.58E-04	4.88E-04	7.68E-04	3.59E-05	1.07E-03	5.11E-07	0.00431452	1.07E-03	1.58E-04	4.88E-04	7.68E-04	3.59E-05	5.91E-05	1.07E-03	3.65E-03
5074	488363.09, 3863877.25	1.85E-03	1.64E-04	5.08E-04	7.70E-04	3.58E-05	1.06E-03	5.51E-07	0.00438218	1.10E-03	1.64E-04	5.08E-04	7.70E-04	3.58E-05	6.00E-05	1.06E-03	3.70E-03
5075	488863.09, 3863877.25	1.95E-03	1.70E-04	5.25E-04	7.75E-04	3.56E-05	1.04E-03	6.08E-07	0.00449193	1.16E-03	1.70E-04	5.25E-04	7.75E-04	3.56E-05	5.84E-05	1.04E-03	3.76E-03
5076	489363.09, 3863877.25	2.13E-03	1.77E-04	5.31E-04	7.77E-04	3.53E-05	1.05E-03	5.97E-07	0.00469741	1.26E-03	1.77E-04	5.31E-04	7.77E-04	3.53E-05	5.64E-05	1.05E-03	3.88E-03
5077	489863.09, 3863877.25	2.42E-03	1.84E-04	5.31E-04	7.79E-04	3.51E-05	1.07E-03	6.06E-07	0.00501055	1.40E-03	1.84E-04	5.31E-04	7.79E-04	3.51E-05	5.72E-05	1.07E-03	4.05E-03
5078	490363.09, 3863877.25	2.65E-03	1.91E-04	5.30E-04	7.86E-04	3.50E-05	1.07E-03	5.97E-07	0.00526261	1.52E-03	1.91E-04	5.30E-04	7.86E-04	3.50E-05	5.99E-05	1.07E-03	4.20E-03
5079	490863.09, 3863877.25	2.77E-03	1.97E-04	5.30E-04	7.97E-04	3.54E-05	1.09E-03	5.68E-07	0.00541906	1.59E-03	1.97E-04	5.30E-04	7.97E-04	3.54E-05	6.10E-05	1.09E-03	4.30E-03
5080	491363.09, 3863877.25	2.68E-03	2.04E-04	5.21E-04	8.05E-04	3.57E-05	1.12E-03	5.38E-07	0.0053645	1.55E-03	2.04E-04	5.21E-04	8.05E-04	3.57E-05	6.06E-05	1.12E-03	4.30E-03
5081	491863.09, 3863877.25	2.54E-03	2.02E-04	5.28E-04	8.25E-04	3.70E-05	1.16E-03	5.32E-07	0.00529976	1.48E-03	2.02E-04	5.28E-04	8.25E-04	3.70E-05	6.37E-05	1.16E-03	4.30E-03
5082	492363.09, 3863877.25	2.46E-03	1.80E-04	5.25E-04	8.42E-04	3.80E-05	1.17E-03	5.10E-07	0.00521167	1.42E-03	1.80E-04	5.25E-04	8.42E-04	3.80E-05	6.62E-05	1.17E-03	4.23E-03
5083	492863.09, 3863877.25	2.42E-03	1.60E-04	4.90E-04	8.48E-04	3.80E-05	1.08E-03	4.79E-07	0.00504169	1.37E-03	1.60E-04	4.90E-04	8.48E-04	3.80E-05	6.56E-05	1.08E-03	4.06E-03
5084	493363.09, 3863877.25	2.48E-03	1.65E-04	4.98E-04	8.80E-04	3.81E-05	1.05E-03	4.78E-07	0.00510677	1.41E-03	1.65E-04	4.98E-04	8.80E-04	3.81E-05	6.68E-05	1.05E-03	4.11E-03
5085	493863.09, 3863877.25	2.53E-03	1.78E-04	5.16E-04	8.72E-04	3.90E-05	1.05E-03	4.75E-07	0.00518826	1.45E-03	1.78E-04	5.16E-04	8.72E-04	3.90E-05	7.01E-05	1.05E-03	4.18E-03
5086	494363.09, 3863877.25	2.56E-03	1.94E-04	5.36E-04	8.37E-04	3.87E-05	1.08E-03	4.82E-07	0.00524952	1.48E-03	1.94E-04	5.36E-04	8.37E-04	3.87E-05	7.07E-05	1.08E-03	4.24E-03
5087	494863.09, 3863877.25	2.56E-03	2.00E-04	5.34E-04	7.99E-04	3.73E-05	1.11E-03	4.71E-07	0.00523609	1.49E-03	2.00E-04	5.34E-04	7.99E-04	3.73E-05	6.80E-05	1.11E-03	4.23E-03
5088	495363.09, 3863877.25	2.58E-03	2.05E-04	5.29E-04	7.76E-04	3.57E-05	1.12E-03	4.56E-07	0.00524502	1.50E-03	2.05E-04	5.29E-04	7.76E-04	3.57E-05	6.42E-05	1.12E-03	4.24E-03
5089	495863.09, 3863877.25	2.61E-03	2.06E-04	5.03E-04	7.68E-04	3.46E-05	1.13E-03	4.45E-07	0.00524508	1.52E-03	2.06E-04	5.03E-04	7.68E-04	3.46E-05	6.18E-05	1.13E-03	4.22E-03
5090	496363.09, 3863877.25	2.66E-03	2.34E-04	4.88E-04	7.61E-04	3.36E-05	1.14E-03	4.33E-07	0.00531053	1.58E-03	2.34E-04	4.88E-04	7.61E-04	3.36E-05	6.04E-05	1.14E-03	4.29E-03
5091	496863.09, 3863877.25	2.71E-03	2.64E-04	4.80E-04	7.59E-04	3.30E-05	1.13E-03	4.18E-07	0.00538144	1.64E-03	2.64E-04	4.80E-04	7.59E-04	3.30E-05	5.97E-05	1.13E-03	4.37E-03
5092	497363.09, 3863877.25	2.72E-03	2.72E-04	4.83E-04	7.65E-04	3.26E-05	1.11E-03	4.07E-07	0.00538636	1.66E-03	2.72E-04	4.83E-04	7.65E-04	3.26E-05	5.92E-05	1.11E-03	4.38E-03
5093	497863.09, 3863877.25	2.68E-03	2.68E-04	4.91E-04	7.79E-04	3.28E-05	1.09E-03	4.02E-07	0.00534659	1.63E-03	2.68E-04	4.91E-04	7.79E-04	3.28E-05	5.91E-05	1.09E-03	4.36E-03
5094	498363.09, 3863877.25	2.61E-03	2.60E-04	4.89E-04	7.91E-04	3.30E-05	1.07E-03	3.97E-07	0.0052457	1.59E-03	2.60E-04	4.89E-04	7.91E-04	3.30E-05	5.96E-05	1.07E-03	4.28E-03
5095	471363.09, 3864377.25	1.74E-03	7.38E-05	2.00E-04	3.58E-04	1.64E-05	3.19E-04	9.06E-08	0.00270735	9.38E-04	7.38E-05	2.00E-04	3.58E-04	1.64E-05	3.03E-05	3.19E-04	1.94E-03
5096	471863.09, 3864377.25	1.77E-03	7.47E-05	2.05E-04	3.68E-04	1.68E-05	3.27E-04	9.45E-08	0.0027619	9.54E-04	7.47E-05	2.05E-04	3.68E-04	1.68E-05	3.06E-05	3.27E-04	1.98E-03
5097	472363.09, 3864377.25	1.80E-03	7.63E-05	2.10E-04	3.78E-04	1.73E-05	3.38E-04	9.84E-08	0.0028209	9.71E-04	7.63E-05	2.10E-04	3.78E-04	1.73E-05	3.09E-05	3.38E-04	2.02E-03
5098	472863.09, 3864377.25	1.82E-03	7.76E-05	2.16E-04	3.88E-04	1.78E-05	3.49E-04	1.02E-07	0.002867	9.81E-04	7.76E-05	2.16E-04	3.88E-04	1.78E-05	3.11E-05	3.49E-04	2.06E-03
5099	473363.09, 3864377.25	1.83E-03	7.88E-05	2.21E-04	3.98E-04	1.82E-05	3.64E-04	1.06E-07	0.00291419	9.90E-04	7.88E-05	2.21E-04	3.98E-04	1.82E-05	3.12E-05	3.64E-04	2.10E-03
5100	473863.09, 3864377.25	1.85E-03	8.01E-05	2.25E-04	4.09E-04	1.86E-05	3.80E-04	1.10E-07	0.00296532	1.00E-03	8.01E-05	2.25E-04	4.09E-04	1.86E-05	3.16E-05	3.80E-04	2.15E-03
5101	474363.09, 3864377.25	1.85E-03	8.13E-05	2.30E-04	4.22E-04	1.91E-05	3.98E-04	1.14E-07	0.00300404	1.00E-03	8.13E-05	2.30E-04	4.22E-04	1.91E-05	3.23E-05	3.98E-04	2.18E-03
5102	474863.09, 3864377.25	1.86E-03	8.26E-05	2.34E-04	4.34E-04	1.96E-05	4.19E-04	1.19E-07	0.00304836	1.01E-03	8.26E-05	2.34E-04	4.34E-04	1.96E-05	3.30E-05	4.19E-04	2.23E-03
5103	475363.09, 3864377.25	1.88E-03	8.38E-05	2.38E-04	4.48E-04	2.02E-05	4.39E-04	1.25E-07	0.00310696	1.02E-03	8.38E-05	2.38E-04	4.48E-04	2.02E-05	3.41E-05	4.39E-04	2.28E-03
5104	475863.09, 3864377.25	1.88E-03	8.55E-05	2.42E-04	4.62E-04	2.09E-05	4.60E-04	1.33E-07	0.00315354	1.02E-03	8.55E-05	2.42E-04	4.62E-04	2.09E-05	3.54E-05	4.60E-04	2.33E-03
5105	476363.09, 3864377.25	1.90E-03	8.67E-05	2.46E-04	4.78E-04	2.18E-05	4.78E-04	1.41E-07	0.00321385	1.03E-03	8.67E-05	2.46E-04	4.78E-04	2.18E-05	3.69E-05	4.78E-04	2.38E-03
5106	476863.09, 3864377.25	1.94E-03	8.84E-05	2.51E-04	4.96E-04	2.27E-05	4.96E-04	1.51E-07	0.00329005	1.05E-03	8.84E-05	2.51E-04	4.96E-04	2.27E-05	3.87E-05	4.96E-04	2.44E-03
5107	477363.09, 3864377.25	1.96E-03	9.04E-05	2.56E-04	5.15E-04	2.36E-05	5.19E-04	1.61E-07	0.00336021	1.06E-03	9.04E-05	2.56E-04	5.15E-04	2.36E-05	4.05E-05	5.19E-04	2.51E-03
5108	477863.09, 3864377.25	1.99E-03	9.21E-05	2.62E-04	5.37E-04	2.45E-05	5.42E-04	1.70E-07	0.0034449	1.08E-03	9.21E-05	2.62E-04	5.37E-04	2.45E-05	4.21E-05	5.42E-04	2.58E-03
5109	478363.09, 3864377.25	2.02E-03	9.33E-05	2.68E-04	5.60E-04	2.55E-05	5.67E-04	1.76E-07	0.0035315	1.10E-03	9.33E-05	2.68E-04	5.60E-04	2.55E-05	4.37E-05	5.67E-04	2.65E-03
5110	478863.09, 3864377.25	2.04E-03	9.50E-05	2.76E-04	5.81E-04	2.65E-05	5.93E-04	1.78E-07	0.00360707	1.11E-03	9.50E-05	2.76E-04	5.81E-04	2.65E-05	4.57E-05	5.93E-04	2.73E-03
5111	479363.09, 3864377.25	2.04E-03	9.67E-05	2.82E-04	5.99E-04	2.74E-05	6.18E-04	1.77E-07	0.00366298	1.11E-03	9.67E-05	2.82E-04	5.99E-04	2.74E-05	4.81E-05	6.18E-04	2.78E-03
5112	479863.09, 3864377.25	2.03E-03	9.87E-05	2.86E-04	6.20E-04	2.84E-05	6.40E-04	1.76E-07	0.00370448	1.11E-03	9.87E-05	2.86E-04	6.20E-04	2.84E-05	5.10E-05	6.40E-04	2.84E-03
5113	480363.09, 3864377.25	2.01E-03	1.00E-04	2.90E-04	6.43E-04	2.94E-05	6.59E-04	1.79E-07	0.00372765	1.10E-03	1.00E-04	2.90E-04	6.43E-04	2.94E-05	5.36E-05	6.59E-04	2.88E-03
5114	480863.09, 3864377.25	1.95E-03	1.02E-04	2.93E-04	6.62E-04	3.00E-05	6.74E-04	1.85E-07	0.0037149	1.08E-03	1.02E-04	2.93E-04	6.62E-04	3.00E-05	5.46E-05	6.74E-04	2.89E-03
5115	481363.09, 3864377.25	1.93E-03	1.05E-04	2.98E-04	6.81E-04	3.09E-05	6.91E-04	1.96E-07	0.00373785	1.07E-03	1.05E-04	2.98E-04	6.81E-04	3.09E-05	5.47E-05	6.91E-04	2.93E-03
5116	481863.09, 3864377.25	1.95E-03	1.08E-04	3.03E-04	7.00E-04	3.19E-05	7.14E-04	2.08E-07	0.00381097	1.08E-03	1.08E-04	3.03E-04	7.00E-04	3.19E-05	5.55E-05	7.14E-04	3.00E-03
5117	482363.09, 3864377.25	1.96E-03	1.10E-04	3.08E-04	7.17E-04	3.27E-05	7.42E-04	2.21E-07	0.00386826	1.09E-03	1.10E-04	3.08E-04	7.17E-04	3.27E-05	5.69E-05	7.42E-04	3.06E-03
5118	482863.09, 3864377.25	1.95E-03	1.12E-04	3.13E-04	7.28E-04	3.32E-05	7.68E-04	2.34E-07	0.00390837	1.09E-03	1.12E-04	3.13E-04	7.28E-04	3.32E-05	5.75E-05	7.68E-04	3.10E-03
5119	483363.09, 3864377.25	1.94E-03	1.15E-04	3.19E-04	7.31E-04	3.37E-05	7.96E-04	2.46E-07	0.00393031	1.08E-03	1.15E-04	3.19E-04	7.31E-04	3.37E-05	5.67E-05	7.96E-04	3.13E-03
5120	483863.09, 3864377.25	1.87E-03	1.17E-04	3.27E-04	7.29E-04	3.39E-05	8.26E-04	2.59E-07	0.00390703	1.06E-03	1.17E-04	3.27E-04	7.29E-04	3.39E-05	5.63E-05	8.26E-04	3.15E-03

5121	484363.09, 3864377.25	1.78E-03	1.20E-04	3.37E-04	7.24E-04	3.40E-05	8.52E-04	2.80E-07	0.00384663	1.01E-03	1.20E-04	3.37E-04	7.24E-04	3.40E-05	5.72E-05	8.52E-04	3.14E-03
5122	484863.09, 3864377.25	1.71E-03	1.23E-04	3.47E-04	7.16E-04	3.38E-05	8.74E-04	3.03E-07	0.00380811	9.86E-04	1.23E-04	3.47E-04	7.16E-04	3.38E-05	5.69E-05	8.74E-04	3.14E-03
5123	485363.09, 3864377.25	1.69E-03	1.27E-04	3.59E-04	7.11E-04	3.36E-05	9.05E-04	3.26E-07	0.00382824	9.80E-04	1.27E-04	3.59E-04	7.11E-04	3.36E-05	5.41E-05	9.05E-04	3.17E-03
5124	485863.09, 3864377.25	1.65E-03	1.30E-04	3.75E-04	7.09E-04	3.33E-05	9.27E-04	3.48E-07	0.00381983	9.61E-04	1.30E-04	3.75E-04	7.09E-04	3.33E-05	5.19E-05	9.27E-04	3.19E-03
5125	486363.09, 3864377.25	1.57E-03	1.33E-04	3.91E-04	7.06E-04	3.30E-05	9.14E-04	3.67E-07	0.00374766	9.27E-04	1.33E-04	3.91E-04	7.06E-04	3.30E-05	5.03E-05	9.14E-04	3.15E-03
5126	486863.09, 3864377.25	1.49E-03	1.36E-04	4.05E-04	6.99E-04	3.29E-05	9.16E-04	3.83E-07	0.00368007	8.93E-04	1.36E-04	4.05E-04	6.99E-04	3.29E-05	4.94E-05	9.16E-04	3.13E-03
5127	487363.09, 3864377.25	1.48E-03	1.40E-04	4.19E-04	6.93E-04	3.27E-05	9.07E-04	3.99E-07	0.00366814	8.90E-04	1.40E-04	4.19E-04	6.93E-04	3.27E-05	5.07E-05	9.07E-04	3.13E-03
5128	487863.09, 3864377.25	1.53E-03	1.44E-04	4.36E-04	6.89E-04	3.24E-05	9.10E-04	4.25E-07	0.00374497	9.23E-04	1.44E-04	4.36E-04	6.89E-04	3.24E-05	5.31E-05	9.10E-04	3.19E-03
5129	488363.09, 3864377.25	1.60E-03	1.48E-04	4.50E-04	6.88E-04	3.23E-05	9.01E-04	4.36E-07	0.00381466	9.60E-04	1.48E-04	4.50E-04	6.88E-04	3.23E-05	5.43E-05	9.01E-04	3.23E-03
5130	488863.09, 3864377.25	1.67E-03	1.52E-04	4.61E-04	6.93E-04	3.22E-05	8.86E-04	4.41E-07	0.00389711	1.00E-03	1.52E-04	4.61E-04	6.93E-04	3.22E-05	5.35E-05	8.86E-04	3.28E-03
5131	489363.09, 3864377.25	1.78E-03	1.56E-04	4.63E-04	6.96E-04	3.19E-05	8.90E-04	4.26E-07	0.0040157	1.06E-03	1.56E-04	4.63E-04	6.96E-04	3.19E-05	5.14E-05	8.90E-04	3.35E-03
5132	489863.09, 3864377.25	2.01E-03	1.60E-04	4.60E-04	6.97E-04	3.17E-05	9.04E-04	4.30E-07	0.00425933	1.17E-03	1.60E-04	4.60E-04	6.97E-04	3.17E-05	5.09E-05	9.04E-04	3.48E-03
5133	490363.09, 3864377.25	2.25E-03	1.65E-04	4.60E-04	7.01E-04	3.16E-05	9.10E-04	4.33E-07	0.0045152	1.30E-03	1.65E-04	4.60E-04	7.01E-04	3.16E-05	5.29E-05	9.10E-04	3.62E-03
5134	490863.09, 3864377.25	2.44E-03	1.69E-04	4.61E-04	7.13E-04	3.19E-05	9.25E-04	4.30E-07	0.00473796	1.39E-03	1.69E-04	4.61E-04	7.13E-04	3.19E-05	5.54E-05	9.25E-04	3.75E-03
5135	491363.09, 3864377.25	2.54E-03	1.61E-04	4.62E-04	7.43E-04	3.35E-05	9.45E-04	4.25E-07	0.00488525	1.43E-03	1.61E-04	4.62E-04	7.43E-04	3.35E-05	5.74E-05	9.45E-04	3.84E-03
5136	491863.09, 3864377.25	2.25E-03	9.75E-05	2.15E-04	4.56E-04	2.42E-05	4.07E-04	1.81E-07	0.00344562	1.21E-03	9.75E-05	2.15E-04	4.56E-04	2.42E-05	4.27E-05	4.07E-04	2.45E-03
5137	492363.09, 3864377.25	2.27E-03	1.22E-04	3.54E-04	6.96E-04	3.32E-05	7.78E-04	3.41E-07	0.00425099	1.25E-03	1.22E-04	3.54E-04	6.96E-04	3.32E-05	5.96E-05	7.78E-04	3.29E-03
5138	492863.09, 3864377.25	2.00E-03	1.01E-04	2.44E-04	5.28E-04	2.83E-05	5.65E-04	2.26E-07	0.00346427	1.09E-03	1.01E-04	2.44E-04	5.28E-04	2.83E-05	5.31E-05	5.65E-04	2.61E-03
5139	493363.09, 3864377.25	2.11E-03	1.15E-04	3.29E-04	6.94E-04	3.19E-05	7.60E-04	3.27E-07	0.00404163	1.17E-03	1.15E-04	3.29E-04	6.94E-04	3.19E-05	5.53E-05	7.60E-04	3.15E-03
5140	493863.09, 3864377.25	2.15E-03	1.32E-04	4.01E-04	7.80E-04	3.38E-05	8.41E-04	3.72E-07	0.00434062	1.21E-03	1.32E-04	4.01E-04	7.80E-04	3.38E-05	5.91E-05	8.41E-04	3.46E-03
5141	494363.09, 3864377.25	2.20E-03	1.45E-04	4.34E-04	7.89E-04	3.51E-05	8.80E-04	3.87E-07	0.00447835	1.25E-03	1.45E-04	4.34E-04	7.89E-04	3.51E-05	6.31E-05	8.80E-04	3.59E-03
5142	494863.09, 3864377.25	2.21E-03	1.58E-04	4.60E-04	7.55E-04	3.50E-05	9.11E-04	4.03E-07	0.00452407	1.27E-03	1.58E-04	4.60E-04	7.55E-04	3.50E-05	6.40E-05	9.11E-04	3.65E-03
5143	495363.09, 3864377.25	2.21E-03	1.59E-04	4.61E-04	7.21E-04	3.38E-05	9.31E-04	3.99E-07	0.00451437	1.27E-03	1.59E-04	4.61E-04	7.21E-04	3.38E-05	6.20E-05	9.31E-04	3.63E-03
5144	495863.09, 3864377.25	2.21E-03	1.59E-04	4.58E-04	6.98E-04	3.24E-05	9.46E-04	3.89E-07	0.00450767	1.27E-03	1.59E-04	4.58E-04	6.98E-04	3.24E-05	5.87E-05	9.46E-04	3.62E-03
5145	496363.09, 3864377.25	2.23E-03	1.67E-04	4.38E-04	6.87E-04	3.12E-05	9.59E-04	3.79E-07	0.00451557	1.29E-03	1.67E-04	4.38E-04	6.87E-04	3.12E-05	5.59E-05	9.59E-04	3.63E-03
5146	496863.09, 3864377.25	2.26E-03	1.72E-04	4.23E-04	6.83E-04	3.05E-05	9.68E-04	3.72E-07	0.00453252	1.31E-03	1.72E-04	4.23E-04	6.83E-04	3.05E-05	5.48E-05	9.68E-04	3.64E-03
5147	497363.09, 3864377.25	2.29E-03	1.87E-04	4.15E-04	6.80E-04	2.99E-05	9.76E-04	3.62E-07	0.00458141	1.35E-03	1.87E-04	4.15E-04	6.80E-04	2.99E-05	5.43E-05	9.76E-04	3.69E-03
5148	497863.09, 3864377.25	2.33E-03	1.90E-04	4.19E-04	6.89E-04	2.99E-05	9.80E-04	3.59E-07	0.00463657	1.37E-03	1.90E-04	4.19E-04	6.89E-04	2.99E-05	5.47E-05	9.80E-04	3.73E-03
5149	498363.09, 3864377.25	2.31E-03	2.01E-04	4.21E-04	6.92E-04	2.95E-05	9.64E-04	3.49E-07	0.00462316	1.37E-03	2.01E-04	4.21E-04	6.92E-04	2.95E-05	5.39E-05	9.64E-04	3.74E-03
5150	471363.09, 3864877.25	1.65E-03	7.18E-05	1.95E-04	3.41E-04	1.56E-05	3.06E-04	8.95E-08	0.00257961	8.91E-04	7.18E-05	1.95E-04	3.41E-04	1.56E-05	2.79E-05	3.06E-04	1.85E-03
5151	471863.09, 3864877.25	1.68E-03	7.30E-05	1.99E-04	3.49E-04	1.60E-05	3.16E-04	9.25E-08	0.0026346	9.08E-04	7.30E-05	1.99E-04	3.49E-04	1.60E-05	2.80E-05	3.16E-04	1.89E-03
5152	472363.09, 3864877.25	1.70E-03	7.38E-05	2.05E-04	3.57E-04	1.64E-05	3.27E-04	9.55E-08	0.00267561	9.17E-04	7.38E-05	2.05E-04	3.57E-04	1.64E-05	2.81E-05	3.27E-04	1.92E-03
5153	472863.09, 3864877.25	1.71E-03	7.55E-05	2.09E-04	3.66E-04	1.68E-05	3.39E-04	9.86E-08	0.00272145	9.27E-04	7.55E-05	2.09E-04	3.66E-04	1.68E-05	2.84E-05	3.39E-04	1.96E-03
5154	473363.09, 3864877.25	1.72E-03	7.63E-05	2.13E-04	3.75E-04	1.71E-05	3.56E-04	1.02E-07	0.00275439	9.30E-04	7.63E-05	2.13E-04	3.75E-04	1.71E-05	2.89E-05	3.56E-04	2.00E-03
5155	473863.09, 3864877.25	1.72E-03	7.76E-05	2.17E-04	3.84E-04	1.75E-05	3.73E-04	1.07E-07	0.00279107	9.34E-04	7.76E-05	2.17E-04	3.84E-04	1.75E-05	2.95E-05	3.73E-04	2.03E-03
5156	474363.09, 3864877.25	1.73E-03	7.84E-05	2.22E-04	3.95E-04	1.79E-05	3.90E-04	1.12E-07	0.00282778	9.37E-04	7.84E-05	2.22E-04	3.95E-04	1.79E-05	3.04E-05	3.90E-04	2.07E-03
5157	474863.09, 3864877.25	1.73E-03	7.97E-05	2.25E-04	4.06E-04	1.84E-05	4.06E-04	1.18E-07	0.00286453	9.40E-04	7.97E-05	2.25E-04	4.06E-04	1.84E-05	3.13E-05	4.06E-04	2.11E-03
5158	475363.09, 3864877.25	1.73E-03	8.09E-05	2.29E-04	4.18E-04	1.91E-05	4.21E-04	1.26E-07	0.00290275	9.44E-04	8.09E-05	2.29E-04	4.18E-04	1.91E-05	3.24E-05	4.21E-04	2.14E-03
5159	475863.09, 3864877.25	1.74E-03	8.26E-05	2.33E-04	4.31E-04	1.98E-05	4.35E-04	1.34E-07	0.00294136	9.49E-04	8.26E-05	2.33E-04	4.31E-04	1.98E-05	3.35E-05	4.35E-04	2.18E-03
5160	476363.09, 3864877.25	1.77E-03	8.38E-05	2.36E-04	4.47E-04	2.06E-05	4.50E-04	1.42E-07	0.00301057	9.67E-04	8.38E-05	2.36E-04	4.47E-04	2.06E-05	3.50E-05	4.50E-04	2.24E-03
5161	476863.09, 3864877.25	1.80E-03	8.51E-05	2.42E-04	4.66E-04	2.14E-05	4.68E-04	1.50E-07	0.00308439	9.82E-04	8.51E-05	2.42E-04	4.66E-04	2.14E-05	3.67E-05	4.68E-04	2.30E-03
5162	477363.09, 3864877.25	1.83E-03	8.67E-05	2.46E-04	4.84E-04	2.21E-05	4.88E-04	1.55E-07	0.00316109	1.00E-03	8.67E-05	2.46E-04	4.84E-04	2.21E-05	3.81E-05	4.88E-04	2.37E-03
5163	477863.09, 3864877.25	1.85E-03	8.80E-05	2.51E-04	5.04E-04	2.30E-05	5.10E-04	1.57E-07	0.0032274	1.01E-03	8.80E-05	2.51E-04	5.04E-04	2.30E-05	3.94E-05	5.10E-04	2.43E-03
5164	478363.09, 3864877.25	1.85E-03	8.92E-05	2.56E-04	5.23E-04	2.38E-05	5.31E-04	1.56E-07	0.0032771	1.01E-03	8.92E-05	2.56E-04	5.23E-04	2.38E-05	4.10E-05	5.31E-04	2.48E-03
5165	478863.09, 3864877.25	1.86E-03	9.09E-05	2.61E-04	5.39E-04	2.46E-05	5.51E-04	1.54E-07	0.00332536	1.02E-03	9.09E-05	2.61E-04	5.39E-04	2.46E-05	4.31E-05	5.51E-04	2.53E-03
5166	479363.09, 3864877.25	1.85E-03	9.25E-05	2.65E-04	5.56E-04	2.55E-05	5.67E-04	1.54E-07	0.00335324	1.01E-03	9.25E-05	2.65E-04	5.56E-04	2.55E-05	4.54E-05	5.67E-04	2.56E-03
5167	479863.09, 3864877.25	1.82E-03	9.42E-05	2.68E-04	5.73E-04	2.63E-05	5.79E-04	1.58E-07	0.00336217	1.00E-03	9.42E-05	2.68E-04	5.73E-04	2.63E-05	4.77E-05	5.79E-04	2.59E-03
5168	480363.09, 3864877.25	1.80E-03	9.58E-05	2.71E-04	5.93E-04	2.71E-05	5.91E-04	1.67E-07	0.0033753	9.93E-04	9.58E-05	2.71E-04	5.93E-04	2.71E-05	4.94E-05	5.91E-04	2.62E-03
5169	480863.09, 3864877.25	1.74E-03	9.75E-05	2.74E-04	6.10E-04	2.77E-05	6.05E-04	1.76E-07	0.00335788	9.69E-04	9.75E-05	2.74E-04	6.10E-04	2.77E-05	4.97E-05	6.05E-04	2.63E-03
5170	481363.09, 3864877.25	1.74E-03	1.00E-04	2.78E-04	6.25E-04	2.85E-05	6.24E-04	1.86E-07	0.00339481	9.70E-04	1.00E-04	2.78E-04	6.25E-04	2.85E-05	4.98E-05	6.24E-04	2.68E-03
5171	481863.09, 3864877.25	1.74E-03	1.03E-04	2.82E-04	6.39E-04	2.91E-05	6.48E-04	1.96E-07	0.00344527	9.77E-04	1.03E-04	2.82E-04	6.39E-04	2.91E-05	5.06E-05	6.48E-04	2.73E-03
5172	482363.09, 3864877.25	1.75E-03	1.05E-04	2.85E-04	6.51E-04	2.98E-05	6.70E-04	2.05E-07	0.00349263	9.82E-04	1.05E-04	2.85E-04	6.51E-04	2.98E-05	5.16E-05	6.70E-04	2.77E-03
5173	482863.09, 3864877.25	1.75E-03	1.07E-04	2.88E-04	6.59E-04	3.03E-05	6.94E-04	2.15E-07	0.00352479	9.81E-04	1.07E-04	2.88E-04	6.59E-04	3.03E-05	5.17E-05	6.94E-04	2.81E-03
5174	483363.09, 3864877.25	1.71E-03	1.09E-04	2.93E-04	6.61E-04	3.06E-05	7.23E-04	2.25E-07	0.00352895	9.68E-04	1.09E-04	2.93E-04	6.61E-04	3.06E-05	5.10E-05	7.23E-04	2.84E-03

5175	483863.09, 3864877.25	1.65E-03	1.11E-04	2.99E-04	6.56E-04	3.07E-05	7.45E-04	2.41E-07	0.00348764	9.37E-04	1.11E-04	2.99E-04	6.56E-04	3.07E-05	5.11E-05	7.45E-04	2.83E-03
5176	484363.09, 3864877.25	1.58E-03	1.13E-04	3.09E-04	6.51E-04	3.07E-05	7.59E-04	2.61E-07	0.00343881	9.06E-04	1.13E-04	3.09E-04	6.51E-04	3.07E-05	5.21E-05	7.59E-04	2.82E-03
5177	484863.09, 3864877.25	1.53E-03	1.15E-04	3.20E-04	6.44E-04	3.06E-05	7.76E-04	2.79E-07	0.00341156	8.84E-04	1.15E-04	3.20E-04	6.44E-04	3.06E-05	5.14E-05	7.76E-04	2.82E-03
5178	485363.09, 3864877.25	1.51E-03	1.18E-04	3.34E-04	6.41E-04	3.05E-05	8.00E-04	2.98E-07	0.00342894	8.79E-04	1.18E-04	3.34E-04	6.41E-04	3.05E-05	4.91E-05	8.00E-04	2.85E-03
5179	485863.09, 3864877.25	1.45E-03	1.20E-04	3.46E-04	6.38E-04	3.01E-05	8.02E-04	3.11E-07	0.00339025	8.55E-04	1.20E-04	3.46E-04	6.38E-04	3.01E-05	4.71E-05	8.02E-04	2.84E-03
5180	486363.09, 3864877.25	1.39E-03	1.22E-04	3.58E-04	6.34E-04	2.98E-05	7.94E-04	3.23E-07	0.0033294	8.27E-04	1.22E-04	3.58E-04	6.34E-04	2.98E-05	4.55E-05	7.94E-04	2.81E-03
5181	486863.09, 3864877.25	1.31E-03	1.24E-04	3.68E-04	6.29E-04	2.97E-05	7.98E-04	3.32E-07	0.00325698	7.89E-04	1.24E-04	3.68E-04	6.29E-04	2.97E-05	4.46E-05	7.98E-04	2.78E-03
5182	487363.09, 3864877.25	1.30E-03	1.27E-04	3.80E-04	6.24E-04	2.95E-05	7.86E-04	3.47E-07	0.00324637	7.88E-04	1.27E-04	3.80E-04	6.24E-04	2.95E-05	4.55E-05	7.86E-04	2.78E-03
5183	487863.09, 3864877.25	1.33E-03	1.29E-04	3.92E-04	6.22E-04	2.93E-05	7.84E-04	3.63E-07	0.00328526	8.05E-04	1.29E-04	3.92E-04	6.22E-04	2.93E-05	4.79E-05	7.84E-04	2.81E-03
5184	488363.09, 3864877.25	1.38E-03	1.33E-04	4.01E-04	6.21E-04	2.94E-05	7.78E-04	3.62E-07	0.0033385	8.33E-04	1.33E-04	4.01E-04	6.21E-04	2.94E-05	4.94E-05	7.78E-04	2.85E-03
5185	488863.09, 3864877.25	1.44E-03	1.36E-04	4.08E-04	6.24E-04	2.93E-05	7.69E-04	3.61E-07	0.00340328	8.67E-04	1.36E-04	4.08E-04	6.24E-04	2.93E-05	4.92E-05	7.69E-04	2.88E-03
5186	489363.09, 3864877.25	1.53E-03	1.39E-04	4.09E-04	6.27E-04	2.91E-05	7.72E-04	3.52E-07	0.00350216	9.15E-04	1.39E-04	4.09E-04	6.27E-04	2.91E-05	4.74E-05	7.72E-04	2.94E-03
5187	489863.09, 3864877.25	1.70E-03	1.41E-04	4.05E-04	6.28E-04	2.88E-05	7.80E-04	3.51E-07	0.00367989	1.00E-03	1.41E-04	4.05E-04	6.28E-04	2.88E-05	4.60E-05	7.80E-04	3.03E-03
5188	490363.09, 3864877.25	1.92E-03	1.44E-04	4.06E-04	6.31E-04	2.87E-05	7.86E-04	3.54E-07	0.00391616	1.11E-03	1.44E-04	4.06E-04	6.31E-04	2.87E-05	4.69E-05	7.86E-04	3.16E-03
5189	490863.09, 3864877.25	2.26E-03	1.25E-04	3.85E-04	6.51E-04	3.02E-05	7.46E-04	3.38E-07	0.00419425	1.25E-03	1.25E-04	3.85E-04	6.51E-04	3.02E-05	5.20E-05	7.46E-04	3.24E-03
5190	491363.09, 3864877.25	2.33E-03	1.42E-04	4.06E-04	6.66E-04	3.02E-05	8.09E-04	3.52E-07	0.00438446	1.31E-03	1.42E-04	4.06E-04	6.66E-04	3.02E-05	5.27E-05	8.09E-04	3.42E-03
5191	491863.09, 3864877.25	2.32E-03	1.23E-04	3.65E-04	6.63E-04	3.08E-05	7.45E-04	3.18E-07	0.00424858	1.28E-03	1.23E-04	3.65E-04	6.63E-04	3.08E-05	5.27E-05	7.45E-04	3.26E-03
5192	492363.09, 3864877.25	1.57E-03	7.76E-05	1.52E-04	2.71E-04	1.50E-05	2.66E-04	9.46E-08	0.00235402	8.57E-04	7.76E-05	1.52E-04	2.71E-04	1.50E-05	2.64E-05	2.66E-04	1.67E-03
5193	492863.09, 3864877.25	1.67E-03	8.38E-05	1.85E-04	3.64E-04	2.06E-05	3.66E-04	1.37E-07	0.00269237	9.12E-04	8.38E-05	1.85E-04	3.64E-04	2.06E-05	3.83E-05	3.66E-04	1.97E-03
5194	493363.09, 3864877.25	1.57E-03	8.13E-05	1.80E-04	3.48E-04	1.96E-05	3.76E-04	1.33E-07	0.0025799	8.63E-04	8.13E-05	1.80E-04	3.48E-04	1.96E-05	3.65E-05	3.76E-04	1.91E-03
5195	493863.09, 3864877.25	1.86E-03	1.05E-04	3.15E-04	6.39E-04	2.92E-05	7.02E-04	2.94E-07	0.00365503	1.03E-03	1.05E-04	3.15E-04	6.39E-04	2.92E-05	5.03E-05	7.02E-04	2.88E-03
5196	494363.09, 3864877.25	1.90E-03	1.19E-04	3.72E-04	7.08E-04	3.07E-05	7.64E-04	3.25E-07	0.00389215	1.07E-03	1.19E-04	3.72E-04	7.08E-04	3.07E-05	5.40E-05	7.64E-04	3.12E-03
5197	494863.09, 3864877.25	1.91E-03	1.24E-04	3.86E-04	7.14E-04	3.17E-05	7.70E-04	3.31E-07	0.00393403	1.08E-03	1.24E-04	3.86E-04	7.14E-04	3.17E-05	5.72E-05	7.70E-04	3.17E-03
5198	495363.09, 3864877.25	1.93E-03	1.30E-04	4.03E-04	6.86E-04	3.17E-05	7.85E-04	3.44E-07	0.00396513	1.10E-03	1.30E-04	4.03E-04	6.86E-04	3.17E-05	5.82E-05	7.85E-04	3.19E-03
5199	495863.09, 3864877.25	1.93E-03	1.39E-04	4.05E-04	6.54E-04	3.06E-05	8.07E-04	3.42E-07	0.00396038	1.11E-03	1.39E-04	4.05E-04	6.54E-04	3.06E-05	5.65E-05	8.07E-04	3.20E-03
5200	496363.09, 3864877.25	1.95E-03	1.32E-04	4.04E-04	6.32E-04	2.95E-05	8.09E-04	3.36E-07	0.00395613	1.11E-03	1.32E-04	4.04E-04	6.32E-04	2.95E-05	5.39E-05	8.09E-04	3.17E-03
5201	496863.09, 3864877.25	1.96E-03	1.34E-04	3.87E-04	6.21E-04	2.85E-05	8.20E-04	3.28E-07	0.00394735	1.12E-03	1.34E-04	3.87E-04	6.21E-04	2.85E-05	5.13E-05	8.20E-04	3.16E-03
5202	497363.09, 3864877.25	1.98E-03	1.38E-04	3.73E-04	6.16E-04	2.77E-05	8.33E-04	3.22E-07	0.00396752	1.13E-03	1.38E-04	3.73E-04	6.16E-04	2.77E-05	4.99E-05	8.33E-04	3.17E-03
5203	497863.09, 3864877.25	2.02E-03	1.43E-04	3.67E-04	6.15E-04	2.73E-05	8.43E-04	3.18E-07	0.00401651	1.16E-03	1.43E-04	3.67E-04	6.15E-04	2.73E-05	4.97E-05	8.43E-04	3.21E-03
5204	498363.09, 3864877.25	2.04E-03	1.55E-04	3.63E-04	6.15E-04	2.70E-05	8.53E-04	3.11E-07	0.0040482	1.18E-03	1.55E-04	3.63E-04	6.15E-04	2.70E-05	4.95E-05	8.53E-04	3.24E-03
5205	471363.09, 3865377.25	1.58E-03	6.97E-05	1.89E-04	3.23E-04	1.48E-05	2.97E-04	8.65E-08	0.00246876	8.53E-04	6.97E-05	1.89E-04	3.23E-04	1.48E-05	2.55E-05	2.97E-04	1.77E-03
5206	471863.09, 3865377.25	1.59E-03	7.05E-05	1.94E-04	3.30E-04	1.51E-05	3.07E-04	8.93E-08	0.00250791	8.61E-04	7.05E-05	1.94E-04	3.30E-04	1.51E-05	2.57E-05	3.07E-04	1.80E-03
5207	472363.09, 3865377.25	1.59E-03	7.14E-05	1.98E-04	3.37E-04	1.55E-05	3.20E-04	9.25E-08	0.00253521	8.63E-04	7.14E-05	1.98E-04	3.37E-04	1.55E-05	2.61E-05	3.20E-04	1.83E-03
5208	472863.09, 3865377.25	1.61E-03	7.30E-05	2.02E-04	3.45E-04	1.58E-05	3.33E-04	9.63E-08	0.00258102	8.75E-04	7.30E-05	2.02E-04	3.45E-04	1.58E-05	2.67E-05	3.33E-04	1.87E-03
5209	473363.09, 3865377.25	1.60E-03	7.38E-05	2.06E-04	3.52E-04	1.61E-05	3.48E-04	1.01E-07	0.00259709	8.70E-04	7.38E-05	2.06E-04	3.52E-04	1.61E-05	2.74E-05	3.48E-04	1.89E-03
5210	473863.09, 3865377.25	1.60E-03	7.47E-05	2.09E-04	3.60E-04	1.65E-05	3.61E-04	1.06E-07	0.00262661	8.73E-04	7.47E-05	2.09E-04	3.60E-04	1.65E-05	2.81E-05	3.61E-04	1.92E-03
5211	474363.09, 3865377.25	1.61E-03	7.59E-05	2.13E-04	3.70E-04	1.69E-05	3.74E-04	1.13E-07	0.00265923	8.78E-04	7.59E-05	2.13E-04	3.70E-04	1.69E-05	2.89E-05	3.74E-04	1.96E-03
5212	474863.09, 3865377.25	1.61E-03	7.68E-05	2.17E-04	3.81E-04	1.75E-05	3.85E-04	1.20E-07	0.00269037	8.80E-04	7.68E-05	2.17E-04	3.81E-04	1.75E-05	2.98E-05	3.85E-04	1.99E-03
5213	475363.09, 3865377.25	1.62E-03	7.84E-05	2.20E-04	3.92E-04	1.81E-05	3.97E-04	1.27E-07	0.00272359	8.85E-04	7.84E-05	2.20E-04	3.92E-04	1.81E-05	3.06E-05	3.97E-04	2.02E-03
5214	475863.09, 3865377.25	1.63E-03	7.92E-05	2.24E-04	4.06E-04	1.88E-05	4.10E-04	1.33E-07	0.00277233	8.94E-04	7.92E-05	2.24E-04	4.06E-04	1.88E-05	3.18E-05	4.10E-04	2.06E-03
5215	476363.09, 3865377.25	1.69E-03	8.09E-05	2.29E-04	4.25E-04	1.97E-05	4.22E-04	1.38E-07	0.00287078	9.25E-04	8.09E-05	2.29E-04	4.25E-04	1.97E-05	3.37E-05	4.22E-04	2.14E-03
5216	476863.09, 3865377.25	1.77E-03	7.92E-05	2.29E-04	4.32E-04	2.04E-05	4.08E-04	1.38E-07	0.00293756	9.58E-04	7.92E-05	2.29E-04	4.32E-04	2.04E-05	3.53E-05	4.08E-04	2.16E-03
5217	477363.09, 3865377.25	1.73E-03	8.34E-05	2.36E-04	4.60E-04	2.11E-05	4.58E-04	1.39E-07	0.00298708	9.44E-04	8.34E-05	2.36E-04	4.60E-04	2.11E-05	3.62E-05	4.58E-04	2.24E-03
5218	477863.09, 3865377.25	1.72E-03	8.51E-05	2.39E-04	4.74E-04	2.16E-05	4.77E-04	1.37E-07	0.00301577	9.42E-04	8.51E-05	2.39E-04	4.74E-04	2.16E-05	3.71E-05	4.77E-04	2.28E-03
5219	478363.09, 3865377.25	1.72E-03	8.59E-05	2.43E-04	4.91E-04	2.24E-05	4.93E-04	1.36E-07	0.0030555	9.44E-04	8.59E-05	2.43E-04	4.91E-04	2.24E-05	3.89E-05	4.93E-04	2.32E-03
5220	478863.09, 3865377.25	1.70E-03	8.75E-05	2.46E-04	5.03E-04	2.31E-05	5.05E-04	1.38E-07	0.00306046	9.34E-04	8.75E-05	2.46E-04	5.03E-04	2.31E-05	4.09E-05	5.05E-04	2.34E-03
5221	479363.09, 3865377.25	1.68E-03	8.88E-05	2.49E-04	5.17E-04	2.38E-05	5.13E-04	1.43E-07	0.00307287	9.28E-04	8.88E-05	2.49E-04	5.17E-04	2.38E-05	4.28E-05	5.13E-04	2.36E-03
5222	479863.09, 3865377.25	1.66E-03	9.00E-05	2.52E-04	5.33E-04	2.46E-05	5.23E-04	1.51E-07	0.00307874	9.18E-04	9.00E-05	2.52E-04	5.33E-04	2.46E-05	4.45E-05	5.23E-04	2.38E-03
5223	480363.09, 3865377.25	1.60E-03	9.17E-05	2.53E-04	5.48E-04	2.51E-05	5.35E-04	1.60E-07	0.00305784	8.94E-04	9.17E-05	2.53E-04	5.48E-04	2.51E-05	4.52E-05	5.35E-04	2.39E-03
5224	480863.09, 3865377.25	1.57E-03	9.33E-05	2.56E-04	5.62E-04	2.56E-05	5.53E-04	1.67E-07	0.003056	8.78E-04	9.33E-05	2.56E-04	5.62E-04	2.56E-05	4.53E-05	5.53E-04	2.41E-03
5225	481363.09, 3865377.25	1.56E-03	9.54E-05	2.59E-04	5.75E-04	2.62E-05	5.72E-04	1.75E-07	0.00308769	8.78E-04	9.54E-05	2.59E-04	5.75E-04	2.62E-05	4.56E-05	5.72E-04	2.45E-03
5226	481863.09, 3865377.25	1.57E-03	9.71E-05	2.61E-04	5.85E-04	2.68E-05	5.90E-04	1.82E-07	0.00312649	8.83E-04	9.71E-05	2.61E-04	5.85E-04	2.68E-05	4.62E-05	5.90E-04	2.49E-03
5227	482363.09, 3865377.25	1.57E-03	9.83E-05	2.63E-04	5.93E-04	2.73E-05	6.09E-04	1.89E-07	0.00316256	8.86E-04	9.83E-05	2.63E-04	5.93E-04	2.73E-05	4.68E-05	6.09E-04	2.52E-03
5228	482863.09, 3865377.25	1.56E-03	1.00E-04	2.65E-04	5.98E-04	2.77E-05	6.35E-04	1.98E-07	0.00319009	8.85E-04	1.00E-04	2.65E-04	5.98E-04	2.77E-05	4.66E-05	6.35E-04	2.56E-03

5229	483363.09, 3865377.25	1.53E-03	1.02E-04	2.70E-04	5.99E-04	2.79E-05	6.61E-04	2.10E-07	0.00318619	8.68E-04	1.02E-04	2.70E-04	5.99E-04	2.79E-05	4.62E-05	6.61E-04	2.57E-03
5230	483863.09, 3865377.25	1.47E-03	1.03E-04	2.78E-04	5.95E-04	2.79E-05	6.72E-04	2.26E-07	0.00314842	8.44E-04	1.03E-04	2.78E-04	5.95E-04	2.79E-05	4.68E-05	6.72E-04	2.57E-03
5231	484363.09, 3865377.25	1.42E-03	1.05E-04	2.88E-04	5.90E-04	2.80E-05	6.80E-04	2.42E-07	0.00310512	8.17E-04	1.05E-04	2.88E-04	5.90E-04	2.80E-05	4.76E-05	6.80E-04	2.55E-03
5232	484863.09, 3865377.25	1.38E-03	1.07E-04	2.99E-04	5.85E-04	2.80E-05	6.95E-04	2.57E-07	0.003093	8.03E-04	1.07E-04	2.99E-04	5.85E-04	2.80E-05	4.67E-05	6.95E-04	2.56E-03
5233	485363.09, 3865377.25	1.33E-03	1.09E-04	3.11E-04	5.81E-04	2.78E-05	7.07E-04	2.69E-07	0.00306352	7.80E-04	1.09E-04	3.11E-04	5.81E-04	2.78E-05	4.47E-05	7.07E-04	2.56E-03
5234	485863.09, 3865377.25	1.29E-03	1.11E-04	3.21E-04	5.77E-04	2.74E-05	6.98E-04	2.76E-07	0.00302695	7.65E-04	1.11E-04	3.21E-04	5.77E-04	2.74E-05	4.30E-05	6.98E-04	2.54E-03
5235	486363.09, 3865377.25	1.24E-03	1.12E-04	3.29E-04	5.75E-04	2.72E-05	7.01E-04	2.87E-07	0.00298773	7.43E-04	1.12E-04	3.29E-04	5.75E-04	2.72E-05	4.16E-05	7.01E-04	2.53E-03
5236	486863.09, 3865377.25	1.17E-03	1.14E-04	3.37E-04	5.70E-04	2.71E-05	7.03E-04	2.94E-07	0.00292474	7.11E-04	1.14E-04	3.37E-04	5.70E-04	2.71E-05	4.05E-05	7.03E-04	2.50E-03
5237	487363.09, 3865377.25	1.16E-03	1.15E-04	3.47E-04	5.67E-04	2.69E-05	6.92E-04	3.07E-07	0.00290906	7.06E-04	1.15E-04	3.47E-04	5.67E-04	2.69E-05	4.12E-05	6.92E-04	2.50E-03
5238	487863.09, 3865377.25	1.17E-03	1.17E-04	3.54E-04	5.65E-04	2.68E-05	6.88E-04	3.13E-07	0.00292339	7.14E-04	1.17E-04	3.54E-04	5.65E-04	2.68E-05	4.34E-05	6.88E-04	2.51E-03
5239	488363.09, 3865377.25	1.20E-03	1.19E-04	3.61E-04	5.66E-04	2.69E-05	6.81E-04	3.09E-07	0.00295519	7.31E-04	1.19E-04	3.61E-04	5.66E-04	2.69E-05	4.51E-05	6.81E-04	2.53E-03
5240	488863.09, 3865377.25	1.25E-03	1.23E-04	3.65E-04	5.68E-04	2.69E-05	6.74E-04	3.11E-07	0.00300891	7.60E-04	1.23E-04	3.65E-04	5.68E-04	2.69E-05	4.54E-05	6.74E-04	2.56E-03
5241	489363.09, 3865377.25	1.34E-03	1.26E-04	3.66E-04	5.71E-04	2.68E-05	6.81E-04	3.05E-07	0.00311095	8.08E-04	1.26E-04	3.66E-04	5.71E-04	2.68E-05	4.42E-05	6.81E-04	2.62E-03
5242	489863.09, 3865377.25	1.47E-03	1.28E-04	3.66E-04	5.75E-04	2.67E-05	6.90E-04	3.03E-07	0.0032564	8.74E-04	1.28E-04	3.66E-04	5.75E-04	2.67E-05	4.29E-05	6.90E-04	2.70E-03
5243	490363.09, 3865377.25	1.71E-03	1.15E-04	3.55E-04	5.88E-04	2.74E-05	6.61E-04	2.94E-07	0.00345562	9.75E-04	1.15E-04	3.55E-04	5.88E-04	2.74E-05	4.41E-05	6.61E-04	2.76E-03
5244	490863.09, 3865377.25	1.95E-03	1.11E-04	3.39E-04	5.85E-04	2.73E-05	6.39E-04	2.89E-07	0.00364665	1.09E-03	1.11E-04	3.39E-04	5.85E-04	2.73E-05	4.60E-05	6.39E-04	2.83E-03
5245	491363.09, 3865377.25	2.14E-03	1.09E-04	3.28E-04	5.85E-04	2.74E-05	6.28E-04	2.77E-07	0.00381323	1.17E-03	1.09E-04	3.28E-04	5.85E-04	2.74E-05	4.84E-05	6.28E-04	2.90E-03
5246	491863.09, 3865377.25	2.17E-03	1.10E-04	3.25E-04	5.93E-04	2.78E-05	6.44E-04	2.74E-07	0.00387358	1.19E-03	1.10E-04	3.25E-04	5.93E-04	2.78E-05	4.86E-05	6.44E-04	2.94E-03
5247	492363.09, 3865377.25	2.07E-03	9.50E-05	2.59E-04	5.35E-04	2.59E-05	4.90E-04	2.18E-07	0.0034736	1.12E-03	9.50E-05	2.59E-04	5.35E-04	2.59E-05	4.40E-05	4.90E-04	2.57E-03
5248	492863.09, 3865377.25	1.75E-03	8.17E-05	2.02E-04	4.24E-04	2.20E-05	3.72E-04	1.60E-07	0.00285584	9.50E-04	8.17E-05	2.02E-04	4.24E-04	2.20E-05	3.97E-05	3.72E-04	2.09E-03
5249	493363.09, 3865377.25	1.44E-03	7.47E-05	1.69E-04	3.21E-04	1.83E-05	3.21E-04	1.18E-07	0.00234763	7.91E-04	7.47E-05	1.69E-04	3.21E-04	1.83E-05	3.38E-05	3.21E-04	1.73E-03
5250	493863.09, 3865377.25	1.58E-03	8.34E-05	2.29E-04	4.71E-04	2.47E-05	5.08E-04	1.99E-07	0.00290062	8.70E-04	8.34E-05	2.29E-04	4.71E-04	2.47E-05	4.58E-05	5.08E-04	2.23E-03
5251	494363.09, 3865377.25	1.66E-03	9.42E-05	3.00E-04	5.89E-04	2.68E-05	6.46E-04	2.65E-07	0.00331143	9.20E-04	9.42E-05	3.00E-04	5.89E-04	2.68E-05	4.59E-05	6.46E-04	2.62E-03
5252	494863.09, 3865377.25	1.67E-03	1.02E-04	3.30E-04	6.41E-04	2.78E-05	6.75E-04	2.79E-07	0.00345045	9.41E-04	1.02E-04	3.30E-04	6.41E-04	2.78E-05	4.90E-05	6.75E-04	2.77E-03
5253	495363.09, 3865377.25	1.70E-03	1.06E-04	3.44E-04	6.50E-04	2.88E-05	6.76E-04	2.85E-07	0.00350131	9.58E-04	1.06E-04	3.44E-04	6.50E-04	2.88E-05	5.21E-05	6.76E-04	2.81E-03
5254	495863.09, 3865377.25	1.71E-03	1.15E-04	3.60E-04	6.26E-04	2.88E-05	6.93E-04	3.00E-07	0.00353567	9.74E-04	1.15E-04	3.60E-04	6.26E-04	2.88E-05	5.31E-05	6.93E-04	2.85E-03
5255	496363.09, 3865377.25	1.71E-03	1.08E-04	3.57E-04	5.95E-04	2.82E-05	6.89E-04	2.99E-07	0.00348709	9.62E-04	1.08E-04	3.57E-04	5.95E-04	2.82E-05	5.22E-05	6.89E-04	2.79E-03
5256	496863.09, 3865377.25	1.73E-03	1.05E-04	3.56E-04	5.68E-04	2.71E-05	6.89E-04	2.92E-07	0.00347572	9.68E-04	1.05E-04	3.56E-04	5.68E-04	2.71E-05	4.99E-05	6.89E-04	2.76E-03
5257	497363.09, 3865377.25	1.75E-03	1.14E-04	3.47E-04	5.65E-04	2.61E-05	7.10E-04	2.87E-07	0.00351662	9.94E-04	1.14E-04	3.47E-04	5.65E-04	2.61E-05	4.73E-05	7.10E-04	2.80E-03
5258	497863.09, 3865377.25	1.77E-03	1.16E-04	3.33E-04	5.60E-04	2.54E-05	7.23E-04	2.83E-07	0.00353232	1.01E-03	1.16E-04	3.33E-04	5.60E-04	2.54E-05	4.58E-05	7.23E-04	2.81E-03
5259	498363.09, 3865377.25	1.79E-03	1.14E-04	3.28E-04	5.60E-04	2.51E-05	7.28E-04	2.80E-07	0.00355034	1.01E-03	1.14E-04	3.28E-04	5.60E-04	2.51E-05	4.55E-05	7.28E-04	2.81E-03
5260	471363.09, 3865877.25	1.49E-03	6.72E-05	1.84E-04	3.05E-04	1.40E-05	2.91E-04	8.42E-08	0.00234658	8.06E-04	6.72E-05	1.84E-04	3.05E-04	1.40E-05	2.36E-05	2.91E-04	1.69E-03
5261	471863.09, 3865877.25	1.49E-03	6.89E-05	1.87E-04	3.11E-04	1.43E-05	3.02E-04	8.76E-08	0.00237406	8.10E-04	6.89E-05	1.87E-04	3.11E-04	1.43E-05	2.41E-05	3.02E-04	1.72E-03
5262	472363.09, 3865877.25	1.51E-03	6.97E-05	1.92E-04	3.18E-04	1.47E-05	3.13E-04	9.16E-08	0.00241345	8.19E-04	6.97E-05	1.92E-04	3.18E-04	1.47E-05	2.49E-05	3.13E-04	1.75E-03
5263	472863.09, 3865877.25	1.50E-03	7.05E-05	1.95E-04	3.23E-04	1.49E-05	3.24E-04	9.64E-08	0.00242409	8.15E-04	7.05E-05	1.95E-04	3.23E-04	1.49E-05	2.55E-05	3.24E-04	1.77E-03
5264	473363.09, 3865877.25	1.50E-03	7.14E-05	1.98E-04	3.30E-04	1.52E-05	3.35E-04	1.02E-07	0.00244864	8.18E-04	7.14E-05	1.98E-04	3.30E-04	1.52E-05	2.61E-05	3.35E-04	1.79E-03
5265	473863.09, 3865877.25	1.50E-03	7.26E-05	2.02E-04	3.39E-04	1.56E-05	3.44E-04	1.08E-07	0.00247815	8.22E-04	7.26E-05	2.02E-04	3.39E-04	1.56E-05	2.68E-05	3.44E-04	1.82E-03
5266	474363.09, 3865877.25	1.51E-03	7.38E-05	2.05E-04	3.49E-04	1.61E-05	3.53E-04	1.14E-07	0.00250499	8.25E-04	7.38E-05	2.05E-04	3.49E-04	1.61E-05	2.75E-05	3.53E-04	1.85E-03
5267	474863.09, 3865877.25	1.53E-03	7.51E-05	2.09E-04	3.60E-04	1.67E-05	3.64E-04	1.20E-07	0.00255075	8.36E-04	7.51E-05	2.09E-04	3.60E-04	1.67E-05	2.83E-05	3.64E-04	1.89E-03
5268	475363.09, 3865877.25	1.53E-03	7.59E-05	2.12E-04	3.72E-04	1.73E-05	3.75E-04	1.23E-07	0.00258098	8.38E-04	7.59E-05	2.12E-04	3.72E-04	1.73E-05	2.92E-05	3.75E-04	1.92E-03
5269	475863.09, 3865877.25	1.55E-03	7.76E-05	2.16E-04	3.86E-04	1.79E-05	3.89E-04	1.25E-07	0.002632	8.49E-04	7.76E-05	2.16E-04	3.86E-04	1.79E-05	3.04E-05	3.89E-04	1.96E-03
5270	476363.09, 3865877.25	1.62E-03	7.80E-05	2.20E-04	4.04E-04	1.88E-05	3.94E-04	1.24E-07	0.00273021	8.82E-04	7.80E-05	2.20E-04	4.04E-04	1.88E-05	3.23E-05	3.94E-04	2.03E-03
5271	476863.09, 3865877.25	1.67E-03	7.68E-05	2.18E-04	4.10E-04	1.94E-05	3.85E-04	1.18E-07	0.00277396	9.05E-04	7.68E-05	2.18E-04	4.10E-04	1.94E-05	3.34E-05	3.85E-04	2.05E-03
5272	477363.09, 3865877.25	1.62E-03	8.09E-05	2.25E-04	4.37E-04	2.01E-05	4.28E-04	1.22E-07	0.00281632	8.91E-04	8.09E-05	2.25E-04	4.37E-04	2.01E-05	3.45E-05	4.28E-04	2.12E-03
5273	477863.09, 3865877.25	1.60E-03	8.21E-05	2.27E-04	4.48E-04	2.05E-05	4.43E-04	1.23E-07	0.00281939	8.79E-04	8.21E-05	2.27E-04	4.48E-04	2.05E-05	3.55E-05	4.43E-04	2.14E-03
5274	478363.09, 3865877.25	1.59E-03	8.30E-05	2.29E-04	4.60E-04	2.12E-05	4.52E-04	1.26E-07	0.00283141	8.74E-04	8.30E-05	2.29E-04	4.60E-04	2.12E-05	3.72E-05	4.52E-04	2.16E-03
5275	478863.09, 3865877.25	1.56E-03	8.38E-05	2.32E-04	4.71E-04	2.18E-05	4.59E-04	1.32E-07	0.0028258	8.61E-04	8.38E-05	2.32E-04	4.71E-04	2.18E-05	3.88E-05	4.59E-04	2.17E-03
5276	479363.09, 3865877.25	1.53E-03	8.46E-05	2.34E-04	4.83E-04	2.24E-05	4.68E-04	1.39E-07	0.00282314	8.49E-04	8.46E-05	2.34E-04	4.83E-04	2.24E-05	4.03E-05	4.68E-04	2.18E-03
5277	479863.09, 3865877.25	1.49E-03	8.55E-05	2.36E-04	4.96E-04	2.29E-05	4.80E-04	1.45E-07	0.00281041	8.31E-04	8.55E-05	2.36E-04	4.96E-04	2.29E-05	4.12E-05	4.80E-04	2.19E-03
5278	480363.09, 3865877.25	1.45E-03	8.67E-05	2.37E-04	5.09E-04	2.33E-05	4.95E-04	1.51E-07	0.00280451	8.14E-04	8.67E-05	2.37E-04	5.09E-04	2.33E-05	4.16E-05	4.95E-04	2.21E-03
5279	480863.09, 3865877.25	1.41E-03	8.80E-05	2.39E-04	5.21E-04	2.38E-05	5.11E-04	1.57E-07	0.00279759	7.96E-04	8.80E-05	2.39E-04	5.21E-04	2.38E-05	4.18E-05	5.11E-04	2.22E-03
5280	481363.09, 3865877.25	1.41E-03	9.00E-05	2.41E-04	5.30E-04	2.43E-05	5.25E-04	1.63E-07	0.0028177	7.97E-04	9.00E-05	2.41E-04	5.30E-04	2.43E-05	4.19E-05	5.25E-04	2.25E-03
5281	481863.09, 3865877.25	1.41E-03	9.09E-05	2.42E-04	5.37E-04	2.48E-05	5.40E-04	1.68E-07	0.00284745	8.00E-04	9.09E-05	2.42E-04	5.37E-04	2.48E-05	4.24E-05	5.40E-04	2.28E-03
5282	482363.09, 3865877.25	1.42E-03	9.21E-05	2.44E-04	5.43E-04	2.51E-05	5.61E-04	1.75E-07	0.00288317	8.03E-04	9.21E-05	2.44E-04	5.43E-04	2.51E-05	4.27E-05	5.61E-04	2.31E-03

5283	482863.09, 3865877.25	1.39E-03	9.33E-05	2.47E-04	5.47E-04	2.54E-05	5.87E-04	1.85E-07	0.00289502	7.94E-04	9.33E-05	2.47E-04	5.47E-04	2.54E-05	4.24E-05	5.87E-04	2.34E-03
5284	483363.09, 3865877.25	1.37E-03	9.50E-05	2.53E-04	5.47E-04	2.55E-05	6.04E-04	1.99E-07	0.00289386	7.84E-04	9.50E-05	2.53E-04	5.47E-04	2.55E-05	4.24E-05	6.04E-04	2.35E-03
5285	483863.09, 3865877.25	1.33E-03	9.63E-05	2.61E-04	5.44E-04	2.57E-05	6.09E-04	2.12E-07	0.00286167	7.64E-04	9.63E-05	2.61E-04	5.44E-04	2.57E-05	4.33E-05	6.09E-04	2.34E-03
5286	484363.09, 3865877.25	1.29E-03	9.79E-05	2.70E-04	5.40E-04	2.58E-05	6.15E-04	2.25E-07	0.00283584	7.46E-04	9.79E-05	2.70E-04	5.40E-04	2.58E-05	4.38E-05	6.15E-04	2.34E-03
5287	484863.09, 3865877.25	1.24E-03	9.96E-05	2.80E-04	5.33E-04	2.57E-05	6.25E-04	2.35E-07	0.00279975	7.24E-04	9.96E-05	2.80E-04	5.33E-04	2.57E-05	4.27E-05	6.25E-04	2.33E-03
5288	485363.09, 3865877.25	1.18E-03	1.01E-04	2.89E-04	5.29E-04	2.54E-05	6.25E-04	2.42E-07	0.00275238	6.99E-04	1.01E-04	2.89E-04	5.29E-04	2.54E-05	4.09E-05	6.25E-04	2.31E-03
5289	485863.09, 3865877.25	1.16E-03	1.02E-04	2.97E-04	5.25E-04	2.51E-05	6.15E-04	2.50E-07	0.00272353	6.89E-04	1.02E-04	2.97E-04	5.25E-04	2.51E-05	3.95E-05	6.15E-04	2.29E-03
5290	486363.09, 3865877.25	1.11E-03	1.03E-04	3.04E-04	5.22E-04	2.49E-05	6.26E-04	2.58E-07	0.00269114	6.67E-04	1.03E-04	3.04E-04	5.22E-04	2.49E-05	3.80E-05	6.26E-04	2.29E-03
5291	486863.09, 3865877.25	1.08E-03	1.04E-04	3.10E-04	5.19E-04	2.48E-05	6.26E-04	2.63E-07	0.00266311	6.52E-04	1.04E-04	3.10E-04	5.19E-04	2.48E-05	3.70E-05	6.26E-04	2.27E-03
5292	487363.09, 3865877.25	1.07E-03	1.06E-04	3.17E-04	5.18E-04	2.46E-05	6.15E-04	2.73E-07	0.00264606	6.48E-04	1.06E-04	3.17E-04	5.18E-04	2.46E-05	3.74E-05	6.15E-04	2.27E-03
5293	487863.09, 3865877.25	1.05E-03	1.08E-04	3.23E-04	5.18E-04	2.47E-05	6.12E-04	2.74E-07	0.00263756	6.44E-04	1.08E-04	3.23E-04	5.18E-04	2.47E-05	3.96E-05	6.12E-04	2.27E-03
5294	488363.09, 3865877.25	1.05E-03	1.11E-04	3.27E-04	5.18E-04	2.47E-05	6.03E-04	2.71E-07	0.00263786	6.49E-04	1.11E-04	3.27E-04	5.18E-04	2.47E-05	4.13E-05	6.03E-04	2.27E-03
5295	488863.09, 3865877.25	1.10E-03	1.13E-04	3.30E-04	5.21E-04	2.49E-05	5.97E-04	2.75E-07	0.00268874	6.76E-04	1.13E-04	3.30E-04	5.21E-04	2.49E-05	4.20E-05	5.97E-04	2.30E-03
5296	489363.09, 3865877.25	1.17E-03	1.15E-04	3.31E-04	5.24E-04	2.49E-05	6.05E-04	2.70E-07	0.00277648	7.14E-04	1.15E-04	3.31E-04	5.24E-04	2.49E-05	4.15E-05	6.05E-04	2.36E-03
5297	489863.09, 3865877.25	1.29E-03	1.16E-04	3.32E-04	5.26E-04	2.48E-05	6.15E-04	2.65E-07	0.00290275	7.70E-04	1.16E-04	3.32E-04	5.26E-04	2.48E-05	4.00E-05	6.15E-04	2.43E-03
5298	490363.09, 3865877.25	1.45E-03	1.12E-04	3.32E-04	5.33E-04	2.49E-05	6.08E-04	2.68E-07	0.00306513	8.47E-04	1.12E-04	3.32E-04	5.33E-04	2.49E-05	3.98E-05	6.08E-04	2.50E-03
5299	490863.09, 3865877.25	1.67E-03	1.04E-04	3.14E-04	5.37E-04	2.50E-05	5.80E-04	2.62E-07	0.00322701	9.41E-04	1.04E-04	3.14E-04	5.37E-04	2.50E-05	4.09E-05	5.80E-04	2.54E-03
5300	491363.09, 3865877.25	1.88E-03	9.71E-05	2.92E-04	5.27E-04	2.49E-05	5.43E-04	2.43E-07	0.00336437	1.04E-03	9.71E-05	2.92E-04	5.27E-04	2.49E-05	4.33E-05	5.43E-04	2.56E-03
5301	491863.09, 3865877.25	2.00E-03	9.75E-05	2.83E-04	5.27E-04	2.51E-05	5.40E-04	2.34E-07	0.00346981	1.09E-03	9.75E-05	2.83E-04	5.27E-04	2.51E-05	4.52E-05	5.40E-04	2.61E-03
5302	492363.09, 3865877.25	1.99E-03	9.33E-05	2.68E-04	5.16E-04	2.49E-05	5.06E-04	2.16E-07	0.00339957	1.08E-03	9.33E-05	2.68E-04	5.16E-04	2.49E-05	4.29E-05	5.06E-04	2.53E-03
5303	492863.09, 3865877.25	1.79E-03	7.84E-05	2.03E-04	4.17E-04	2.10E-05	3.52E-04	1.58E-07	0.00285986	9.63E-04	7.84E-05	2.03E-04	4.17E-04	2.10E-05	3.62E-05	3.52E-04	2.07E-03
5304	493363.09, 3865877.25	1.56E-03	7.55E-05	1.98E-04	4.15E-04	2.13E-05	3.68E-04	1.59E-07	0.00263903	8.49E-04	7.55E-05	1.98E-04	4.15E-04	2.13E-05	3.88E-05	3.68E-04	1.97E-03
5305	493863.09, 3865877.25	1.49E-03	7.88E-05	2.26E-04	4.59E-04	2.38E-05	4.61E-04	1.87E-07	0.00273578	8.17E-04	7.88E-05	2.26E-04	4.59E-04	2.38E-05	4.42E-05	4.61E-04	2.11E-03
5306	494363.09, 3865877.25	1.50E-03	8.42E-05	2.61E-04	5.01E-04	2.48E-05	5.69E-04	2.24E-07	0.00294519	8.32E-04	8.42E-05	2.61E-04	5.01E-04	2.48E-05	4.45E-05	5.69E-04	2.32E-03
5307	494863.09, 3865877.25	1.50E-03	9.42E-05	3.05E-04	5.57E-04	2.53E-05	6.43E-04	2.55E-07	0.00312654	8.45E-04	9.42E-05	3.05E-04	5.57E-04	2.53E-05	4.42E-05	6.43E-04	2.51E-03
5308	495363.09, 3865877.25	1.50E-03	9.54E-05	3.08E-04	5.87E-04	2.55E-05	6.27E-04	2.51E-07	0.00314879	8.51E-04	9.54E-05	3.08E-04	5.87E-04	2.55E-05	4.55E-05	6.27E-04	2.54E-03
5309	495863.09, 3865877.25	1.53E-03	9.50E-05	3.10E-04	5.94E-04	2.64E-05	6.00E-04	2.50E-07	0.0031554	8.62E-04	9.50E-05	3.10E-04	5.94E-04	2.64E-05	4.77E-05	6.00E-04	2.54E-03
5310	496363.09, 3865877.25	1.53E-03	9.25E-05	3.11E-04	5.75E-04	2.67E-05	5.87E-04	2.57E-07	0.00312418	8.58E-04	9.25E-05	3.11E-04	5.75E-04	2.67E-05	4.93E-05	5.87E-04	2.50E-03
5311	496863.09, 3865877.25	1.54E-03	8.96E-05	3.08E-04	5.38E-04	2.62E-05	5.78E-04	2.54E-07	0.00307573	8.55E-04	8.96E-05	3.08E-04	5.38E-04	2.62E-05	4.85E-05	5.78E-04	2.44E-03
5312	497363.09, 3865877.25	1.56E-03	9.21E-05	3.18E-04	5.16E-04	2.50E-05	5.98E-04	2.56E-07	0.00310754	8.69E-04	9.21E-05	3.18E-04	5.16E-04	2.50E-05	4.62E-05	5.98E-04	2.46E-03
5313	497863.09, 3865877.25	1.57E-03	9.54E-05	3.10E-04	5.09E-04	2.41E-05	6.11E-04	2.53E-07	0.0031177	8.78E-04	9.54E-05	3.10E-04	5.09E-04	2.41E-05	4.40E-05	6.11E-04	2.47E-03
5314	498363.09, 3865877.25	1.59E-03	8.80E-05	2.89E-04	5.03E-04	2.33E-05	5.97E-04	2.44E-07	0.00309376	8.83E-04	8.80E-05	2.89E-04	5.03E-04	2.33E-05	4.18E-05	5.97E-04	2.43E-03
5315	471363.09, 3866377.25	1.41E-03	6.60E-05	1.78E-04	2.88E-04	1.33E-05	2.85E-04	8.38E-08	0.00224233	7.69E-04	6.60E-05	1.78E-04	2.88E-04	1.33E-05	2.25E-05	2.85E-04	1.62E-03
5316	471863.09, 3866377.25	1.42E-03	6.68E-05	1.81E-04	2.93E-04	1.36E-05	2.94E-04	8.82E-08	0.00226451	7.71E-04	6.68E-05	1.81E-04	2.93E-04	1.36E-05	2.32E-05	2.94E-04	1.64E-03
5317	472363.09, 3866377.25	1.42E-03	6.80E-05	1.85E-04	2.99E-04	1.39E-05	3.02E-04	9.32E-08	0.00228849	7.76E-04	6.80E-05	1.85E-04	2.99E-04	1.39E-05	2.39E-05	3.02E-04	1.67E-03
5318	472863.09, 3866377.25	1.41E-03	6.89E-05	1.87E-04	3.04E-04	1.41E-05	3.10E-04	9.83E-08	0.00229498	7.71E-04	6.89E-05	1.87E-04	3.04E-04	1.41E-05	2.44E-05	3.10E-04	1.68E-03
5319	473363.09, 3866377.25	1.41E-03	6.97E-05	1.91E-04	3.12E-04	1.45E-05	3.18E-04	1.04E-07	0.00231872	7.74E-04	6.97E-05	1.91E-04	3.12E-04	1.45E-05	2.49E-05	3.18E-04	1.70E-03
5320	473863.09, 3866377.25	1.42E-03	7.09E-05	1.94E-04	3.21E-04	1.49E-05	3.26E-04	1.08E-07	0.00234539	7.78E-04	7.09E-05	1.94E-04	3.21E-04	1.49E-05	2.54E-05	3.26E-04	1.73E-03
5321	474363.09, 3866377.25	1.42E-03	7.22E-05	1.98E-04	3.31E-04	1.54E-05	3.35E-04	1.11E-07	0.00237198	7.80E-04	7.22E-05	1.98E-04	3.31E-04	1.54E-05	2.60E-05	3.35E-04	1.76E-03
5322	474863.09, 3866377.25	1.42E-03	7.30E-05	2.01E-04	3.43E-04	1.59E-05	3.45E-04	1.13E-07	0.00240044	7.82E-04	7.30E-05	2.01E-04	3.43E-04	1.59E-05	2.69E-05	3.45E-04	1.79E-03
5323	475363.09, 3866377.25	1.42E-03	7.38E-05	2.04E-04	3.54E-04	1.64E-05	3.56E-04	1.12E-07	0.00242835	7.84E-04	7.38E-05	2.04E-04	3.54E-04	1.64E-05	2.79E-05	3.56E-04	1.82E-03
5324	475863.09, 3866377.25	1.44E-03	7.47E-05	2.06E-04	3.67E-04	1.69E-05	3.68E-04	1.10E-07	0.00247244	7.93E-04	7.47E-05	2.06E-04	3.67E-04	1.69E-05	2.90E-05	3.68E-04	1.85E-03
5325	476363.09, 3866377.25	1.50E-03	7.55E-05	2.10E-04	3.86E-04	1.78E-05	3.78E-04	1.10E-07	0.00256494	8.22E-04	7.55E-05	2.10E-04	3.86E-04	1.78E-05	3.06E-05	3.78E-04	1.92E-03
5326	476863.09, 3866377.25	1.56E-03	7.22E-05	2.04E-04	3.86E-04	1.83E-05	3.53E-04	1.04E-07	0.00259049	8.46E-04	7.22E-05	2.04E-04	3.86E-04	1.83E-05	3.16E-05	3.53E-04	1.91E-03
5327	477363.09, 3866377.25	1.54E-03	7.59E-05	2.12E-04	4.12E-04	1.93E-05	3.88E-04	1.10E-07	0.00264707	8.43E-04	7.59E-05	2.12E-04	4.12E-04	1.93E-05	3.32E-05	3.88E-04	1.98E-03
5328	477863.09, 3866377.25	1.49E-03	7.84E-05	2.15E-04	4.25E-04	1.96E-05	4.09E-04	1.17E-07	0.00263784	8.23E-04	7.84E-05	2.15E-04	4.25E-04	1.96E-05	3.42E-05	4.09E-04	2.00E-03
5329	478363.09, 3866377.25	1.46E-03	7.88E-05	2.16E-04	4.32E-04	2.00E-05	4.15E-04	1.22E-07	0.00262454	8.09E-04	7.88E-05	2.16E-04	4.32E-04	2.00E-05	3.54E-05	4.15E-04	2.01E-03
5330	478863.09, 3866377.25	1.43E-03	7.97E-05	2.19E-04	4.42E-04	2.06E-05	4.23E-04	1.28E-07	0.00261946	7.96E-04	7.97E-05	2.19E-04	4.42E-04	2.06E-05	3.67E-05	4.23E-04	2.02E-03
5331	479363.09, 3866377.25	1.39E-03	8.05E-05	2.21E-04	4.54E-04	2.11E-05	4.35E-04	1.34E-07	0.00260598	7.78E-04	8.05E-05	2.21E-04	4.54E-04	2.11E-05	3.79E-05	4.35E-04	2.03E-03
5332	479863.09, 3866377.25	1.36E-03	8.13E-05	2.22E-04	4.67E-04	2.16E-05	4.50E-04	1.39E-07	0.00259699	7.60E-04	8.13E-05	2.22E-04	4.67E-04	2.16E-05	3.86E-05	4.50E-04	2.04E-03
5333	480363.09, 3866377.25	1.32E-03	8.21E-05	2.24E-04	4.78E-04	2.20E-05	4.63E-04	1.43E-07	0.00258503	7.42E-04	8.21E-05	2.24E-04	4.78E-04	2.20E-05	3.89E-05	4.63E-04	2.05E-03
5334	480863.09, 3866377.25	1.28E-03	8.34E-05	2.24E-04	4.86E-04	2.23E-05	4.73E-04	1.47E-07	0.00256893	7.26E-04	8.34E-05	2.24E-04	4.86E-04	2.23E-05	3.88E-05	4.73E-04	2.05E-03
5335	481363.09, 3866377.25	1.29E-03	8.51E-05	2.25E-04	4.93E-04	2.28E-05	4.84E-04	1.52E-07	0.00259682	7.31E-04	8.51E-05	2.25E-04	4.93E-04	2.28E-05	3.88E-05	4.84E-04	2.08E-03
5336	481863.09, 3866377.25	1.29E-03	8.59E-05	2.27E-04	4.97E-04	2.31E-05	5.00E-04	1.57E-07	0.00262345	7.34E-04	8.59E-05	2.27E-04	4.97E-04	2.31E-05	3.90E-05	5.00E-04	2.11E-03

5337	482363.09, 3866377.25	1.28E-03	8.67E-05	2.30E-04	5.00E-04	2.33E-05	5.23E-04	1.65E-07	0.0026434	7.30E-04	8.67E-05	2.30E-04	5.00E-04	2.33E-05	3.91E-05	5.23E-04	2.13E-03
5338	482863.09, 3866377.25	1.27E-03	8.80E-05	2.34E-04	5.03E-04	2.35E-05	5.44E-04	1.77E-07	0.00266051	7.25E-04	8.80E-05	2.34E-04	5.03E-04	2.35E-05	3.90E-05	5.44E-04	2.16E-03
5339	483363.09, 3866377.25	1.25E-03	8.88E-05	2.39E-04	5.03E-04	2.36E-05	5.52E-04	1.88E-07	0.00265907	7.19E-04	8.88E-05	2.39E-04	5.03E-04	2.36E-05	3.93E-05	5.52E-04	2.16E-03
5340	483863.09, 3866377.25	1.23E-03	9.04E-05	2.46E-04	5.00E-04	2.37E-05	5.53E-04	1.98E-07	0.00263901	7.08E-04	9.04E-05	2.46E-04	5.00E-04	2.37E-05	4.02E-05	5.53E-04	2.16E-03
5341	484363.09, 3866377.25	1.17E-03	9.09E-05	2.53E-04	4.94E-04	2.38E-05	5.58E-04	2.08E-07	0.00259146	6.81E-04	9.09E-05	2.53E-04	4.94E-04	2.38E-05	4.02E-05	5.58E-04	2.14E-03
5342	484863.09, 3866377.25	1.12E-03	9.21E-05	2.62E-04	4.90E-04	2.38E-05	5.65E-04	2.15E-07	0.00255454	6.59E-04	9.21E-05	2.62E-04	4.90E-04	2.38E-05	3.93E-05	5.65E-04	2.13E-03
5343	485363.09, 3866377.25	1.05E-03	9.33E-05	2.70E-04	4.84E-04	2.34E-05	5.56E-04	2.20E-07	0.00247981	6.27E-04	9.33E-05	2.70E-04	4.84E-04	2.34E-05	3.77E-05	5.56E-04	2.09E-03
5344	485863.09, 3866377.25	1.04E-03	9.50E-05	2.76E-04	4.80E-04	2.31E-05	5.49E-04	2.27E-07	0.00246588	6.24E-04	9.50E-05	2.76E-04	4.80E-04	2.31E-05	3.63E-05	5.49E-04	2.08E-03
5345	486363.09, 3866377.25	1.03E-03	9.67E-05	2.82E-04	4.77E-04	2.29E-05	5.63E-04	2.32E-07	0.00246768	6.17E-04	9.67E-05	2.82E-04	4.77E-04	2.29E-05	3.50E-05	5.63E-04	2.09E-03
5346	486863.09, 3866377.25	1.01E-03	9.83E-05	2.87E-04	4.77E-04	2.29E-05	5.62E-04	2.38E-07	0.00245542	6.11E-04	9.83E-05	2.87E-04	4.77E-04	2.29E-05	3.40E-05	5.62E-04	2.09E-03
5347	487363.09, 3866377.25	1.01E-03	1.00E-04	2.96E-04	4.84E-04	2.32E-05	5.59E-04	2.48E-07	0.00247066	6.13E-04	1.00E-04	2.96E-04	4.84E-04	2.32E-05	3.50E-05	5.59E-04	2.11E-03
5348	487863.09, 3866377.25	9.88E-04	1.00E-04	3.01E-04	4.88E-04	2.35E-05	5.54E-04	2.46E-07	0.00245446	6.03E-04	1.00E-04	3.01E-04	4.88E-04	2.35E-05	3.73E-05	5.54E-04	2.11E-03
5349	488363.09, 3866377.25	9.62E-04	1.02E-04	3.04E-04	4.88E-04	2.35E-05	5.45E-04	2.47E-07	0.00242384	5.93E-04	1.02E-04	3.04E-04	4.88E-04	2.35E-05	3.90E-05	5.45E-04	2.09E-03
5350	488863.09, 3866377.25	9.80E-04	9.83E-05	3.01E-04	4.90E-04	2.37E-05	5.26E-04	2.46E-07	0.00241993	5.97E-04	9.83E-05	3.01E-04	4.90E-04	2.37E-05	4.02E-05	5.26E-04	2.08E-03
5351	489363.09, 3866377.25	1.05E-03	9.58E-05	2.95E-04	4.89E-04	2.37E-05	5.24E-04	2.35E-07	0.0024822	6.31E-04	9.58E-05	2.95E-04	4.89E-04	2.37E-05	3.98E-05	5.24E-04	2.10E-03
5352	489863.09, 3866377.25	1.16E-03	9.13E-05	2.83E-04	4.78E-04	2.35E-05	5.09E-04	2.16E-07	0.0025401	6.75E-04	9.13E-05	2.83E-04	4.78E-04	2.35E-05	3.85E-05	5.09E-04	2.10E-03
5353	490363.09, 3866377.25	1.27E-03	1.02E-04	3.01E-04	4.88E-04	2.30E-05	5.50E-04	2.38E-07	0.00272885	7.42E-04	1.02E-04	3.01E-04	4.88E-04	2.30E-05	3.68E-05	5.50E-04	2.24E-03
5354	490863.09, 3866377.25	1.42E-03	1.05E-04	2.98E-04	4.89E-04	2.28E-05	5.41E-04	2.41E-07	0.00287527	8.20E-04	1.05E-04	2.98E-04	4.89E-04	2.28E-05	3.65E-05	5.41E-04	2.31E-03
5355	491363.09, 3866377.25	1.61E-03	1.00E-04	2.92E-04	4.96E-04	2.29E-05	5.40E-04	2.38E-07	0.00306476	9.10E-04	1.00E-04	2.92E-04	4.96E-04	2.29E-05	3.83E-05	5.40E-04	2.40E-03
5356	491863.09, 3866377.25	1.79E-03	8.38E-05	2.46E-04	4.70E-04	2.26E-05	4.50E-04	1.98E-07	0.00306343	9.75E-04	8.38E-05	2.46E-04	4.70E-04	2.26E-05	4.11E-05	4.50E-04	2.29E-03
5357	492363.09, 3866377.25	1.86E-03	8.51E-05	2.50E-04	4.73E-04	2.30E-05	4.62E-04	1.97E-07	0.00315021	1.01E-03	8.51E-05	2.50E-04	4.73E-04	2.30E-05	4.13E-05	4.62E-04	2.34E-03
5358	492863.09, 3866377.25	1.79E-03	7.88E-05	2.20E-04	4.38E-04	2.17E-05	3.94E-04	1.73E-07	0.0029445	9.67E-04	7.88E-05	2.20E-04	4.38E-04	2.17E-05	3.70E-05	3.94E-04	2.16E-03
5359	493363.09, 3866377.25	1.66E-03	7.84E-05	2.30E-04	4.60E-04	2.19E-05	4.22E-04	1.88E-07	0.00286968	9.00E-04	7.84E-05	2.30E-04	4.60E-04	2.19E-05	3.76E-05	4.22E-04	2.15E-03
5360	493863.09, 3866377.25	1.51E-03	7.97E-05	2.45E-04	4.82E-04	2.29E-05	4.72E-04	2.02E-07	0.00280722	8.28E-04	7.97E-05	2.45E-04	4.82E-04	2.29E-05	4.12E-05	4.72E-04	2.17E-03
5361	494363.09, 3866377.25	1.39E-03	8.42E-05	2.66E-04	4.90E-04	2.37E-05	5.50E-04	2.16E-07	0.00280693	7.78E-04	8.42E-05	2.66E-04	4.90E-04	2.37E-05	4.26E-05	5.50E-04	2.23E-03
5362	494863.09, 3866377.25	1.36E-03	8.30E-05	2.64E-04	4.81E-04	2.33E-05	5.63E-04	2.18E-07	0.00277772	7.62E-04	8.30E-05	2.64E-04	4.81E-04	2.33E-05	4.11E-05	5.63E-04	2.22E-03
5363	495363.09, 3866377.25	1.35E-03	7.97E-05	2.62E-04	4.99E-04	2.26E-05	5.46E-04	2.15E-07	0.00276358	7.56E-04	7.97E-05	2.62E-04	4.99E-04	2.26E-05	3.86E-05	5.46E-04	2.20E-03
5364	495863.09, 3866377.25	1.36E-03	7.80E-05	2.59E-04	5.25E-04	2.30E-05	5.19E-04	2.06E-07	0.00276656	7.60E-04	7.80E-05	2.59E-04	5.25E-04	2.30E-05	4.06E-05	5.19E-04	2.20E-03
5365	496363.09, 3866377.25	1.39E-03	7.80E-05	2.64E-04	5.31E-04	2.43E-05	5.01E-04	2.07E-07	0.00278583	7.74E-04	7.80E-05	2.64E-04	5.31E-04	2.43E-05	4.47E-05	5.01E-04	2.22E-03
5366	496863.09, 3866377.25	1.40E-03	7.72E-05	2.60E-04	5.11E-04	2.46E-05	4.79E-04	2.11E-07	0.00274667	7.74E-04	7.72E-05	2.60E-04	5.11E-04	2.46E-05	4.52E-05	4.79E-04	2.17E-03
5367	497363.09, 3866377.25	1.40E-03	7.88E-05	2.66E-04	4.87E-04	2.42E-05	4.88E-04	2.16E-07	0.00274182	7.74E-04	7.88E-05	2.66E-04	4.87E-04	2.42E-05	4.46E-05	4.88E-04	2.16E-03
5368	497863.09, 3866377.25	1.40E-03	8.01E-05	2.77E-04	4.65E-04	2.32E-05	5.09E-04	2.21E-07	0.00275889	7.78E-04	8.01E-05	2.77E-04	4.65E-04	2.32E-05	4.28E-05	5.09E-04	2.18E-03
5369	498363.09, 3866377.25	1.40E-03	7.30E-05	2.42E-04	4.20E-04	2.11E-05	4.51E-04	1.95E-07	0.00261016	7.71E-04	7.30E-05	2.42E-04	4.20E-04	2.11E-05	3.88E-05	4.51E-04	2.02E-03
5370	474494.92, 3848334.16	7.85E-02	2.85E-02	9.05E-02	2.87E-04	1.54E-05	1.65E-04	6.18E-08	0.19796419	7.28E-02	2.85E-02	9.05E-02	2.87E-04	1.54E-05	2.64E-05	1.65E-04	1.92E-01
5371	475167.27, 3848920.79	1.06E-01	3.37E-02	1.00E-01	3.27E-04	1.76E-05	1.84E-04	6.73E-08	0.24088619	9.27E-02	3.37E-02	1.00E-01	3.27E-04	1.76E-05	3.00E-05	1.84E-04	2.27E-01
5372	475297.89, 3848997.96	9.25E-02	2.62E-02	1.03E-01	3.33E-04	1.79E-05	1.87E-04	6.82E-08	0.22221378	7.68E-02	2.62E-02	1.03E-01	3.33E-04	1.79E-05	3.05E-05	1.87E-04	2.07E-01
5373	475439.05, 3849062	1.08E-01	3.05E-02	1.02E-01	3.29E-04	1.78E-05	1.84E-04	6.77E-08	0.24176615	8.96E-02	3.05E-02	1.02E-01	3.29E-04	1.78E-05	3.05E-05	1.84E-04	2.23E-01
5374	475486.86, 3849061.09	8.51E-02	2.25E-02	8.01E-02	3.26E-04	1.77E-05	1.83E-04	6.74E-08	0.18815161	6.86E-02	2.25E-02	8.01E-02	3.26E-04	1.77E-05	3.04E-05	1.83E-04	1.72E-01
5375	475538.46, 3849075.56	8.69E-02	2.28E-02	7.92E-02	3.28E-04	1.79E-05	1.85E-04	6.79E-08	0.1894181	6.99E-02	2.28E-02	7.92E-02	3.28E-04	1.79E-05	3.06E-05	1.85E-04	1.72E-01
5376	475751.79, 3849137.15	1.12E-01	3.36E-02	1.06E-01	3.43E-04	1.86E-05	1.97E-04	7.05E-08	0.25193738	9.50E-02	3.36E-02	1.06E-01	3.43E-04	1.86E-05	3.16E-05	1.97E-04	2.35E-01
5377	476303.62, 3849223.38	1.03E-01	3.05E-02	1.21E-01	3.49E-04	1.96E-05	2.31E-04	7.40E-08	0.2545153	8.69E-02	3.05E-02	1.21E-01	3.49E-04	1.96E-05	3.26E-05	2.31E-04	2.39E-01
5378	476304.51, 3849238.92	1.36E-01	4.23E-02	1.15E-01	3.52E-04	1.97E-05	2.31E-04	7.42E-08	0.29418408	1.18E-01	4.23E-02	1.15E-01	3.52E-04	1.97E-05	3.28E-05	2.31E-04	2.76E-01
5379	476365.04, 3849247.98	1.23E-01	3.78E-02	1.13E-01	3.52E-04	1.98E-05	2.35E-04	7.46E-08	0.27415466	1.06E-01	3.78E-02	1.13E-01	3.52E-04	1.98E-05	3.28E-05	2.35E-04	2.57E-01
5380	476444.86, 3849267.13	1.24E-01	3.80E-02	1.16E-01	3.50E-04	1.98E-05	2.38E-04	7.47E-08	0.27819327	1.06E-01	3.80E-02	1.16E-01	3.50E-04	1.98E-05	3.29E-05	2.38E-04	2.61E-01
5381	476550.75, 3849300.66	1.41E-01	4.55E-02	1.24E-01	3.54E-04	2.01E-05	2.49E-04	7.57E-08	0.31141515	1.23E-01	4.55E-02	1.24E-01	3.54E-04	2.01E-05	3.32E-05	2.49E-04	2.93E-01
5382	476656.71, 3849346.88	1.29E-01	3.91E-02	1.27E-01	3.57E-04	2.04E-05	2.57E-04	7.66E-08	0.29561838	1.10E-01	3.91E-02	1.27E-01	3.57E-04	2.04E-05	3.36E-05	2.57E-04	2.77E-01
5383	476873.55, 3849454.53	1.33E-01	3.90E-02	1.16E-01	3.69E-04	2.11E-05	2.75E-04	7.89E-08	0.28876777	1.12E-01	3.90E-02	1.16E-01	3.69E-04	2.11E-05	3.45E-05	2.75E-04	2.68E-01
5384	477700, 3849859.7	1.46E-01	3.80E-02	8.19E-02	4.32E-04	2.42E-05	3.42E-04	8.65E-08	0.26663946	1.18E-01	3.80E-02	8.19E-02	4.32E-04	2.42E-05	3.77E-05	3.42E-04	2.38E-01
5385	477743.16, 3849856.38	1.14E-01	2.70E-02	1.15E-01	4.31E-04	2.39E-05	3.40E-04	8.59E-08	0.25695187	8.87E-02	2.70E-02	1.15E-01	4.31E-04	2.39E-05	3.74E-05	3.40E-04	2.31E-01
5386	478477.35, 3850216.33	1.29E-01	2.80E-02	1.07E-01	5.37E-04	2.59E-05	3.57E-04	9.01E-08	0.26505051	9.76E-02	2.80E-02	1.07E-01	5.37E-04	2.59E-05	3.97E-05	3.57E-04	2.33E-01
5387	478485.8, 3850201.6	1.06E-01	2.16E-02	9.90E-02	5.42E-04	2.59E-05	3.55E-04	8.98E-08	0.22774231	7.83E-02	2.16E-02	9.90E-02	5.42E-04	2.59E-05	3.95E-05	3.55E-04	2.00E-01
5388	479113.21, 3850501.53	1.28E-01	1.98E-02	9.21E-02	7.33E-04	3.14E-05	3.92E-04	9.79E-08	0.24129944	8.69E-02	1.98E-02	9.21E-02	7.33E-04	3.14E-05	4.51E-05	3.92E-04	2.00E-01
5389	479108.11, 3850382.28	5.55E-02	8.02E-03	4.52E-02	7.44E-04	3.12E-05	3.78E-04	9.59E-08	0.10984784	3.68E-02	8.02E-03	4.52E-02	7.44E-04	3.12E-05	4.49E-05	3.78E-04	9.12E-02
5390	479689.85, 3850674.28	1.03E-01	8.32E-03	4.79E-02	8.68E-04	3.72E-05	3.84E-04	1.02E-07	0.16084376	6.05E-02	8.32E-03	4.79E-02	8.68E-04	3.72E-05	5.29E-05	3.84E-04	1.18E-01

5391	479952.42, 3850774.28	7.50E-02	7.22E-03	4.28E-02	9.03E-04	4.09E-05	3.94E-04	1.06E-07	0.12638812	4.54E-02	7.22E-03	4.28E-02	9.03E-04	4.09E-05	6.04E-05	3.94E-04	9.68E-02
5392	479911.32, 3850884.85	1.15E-01	1.86E-02	9.32E-02	9.37E-04	4.03E-05	4.12E-04	1.07E-07	0.22853926	7.92E-02	1.86E-02	9.32E-02	9.37E-04	4.03E-05	5.76E-05	4.12E-04	1.92E-01
5393	480500.92, 3851178.12	1.09E-01	1.94E-02	1.00E-01	1.04E-03	4.95E-05	4.62E-04	1.20E-07	0.23027868	7.69E-02	1.94E-02	1.00E-01	1.04E-03	4.95E-05	7.45E-05	4.62E-04	1.98E-01
5394	480738.01, 3851289.27	1.07E-01	1.83E-02	9.58E-02	1.07E-03	5.34E-05	4.84E-04	1.26E-07	0.22300269	7.44E-02	1.83E-02	9.58E-02	1.07E-03	5.34E-05	8.29E-05	4.84E-04	1.90E-01
5395	481055.42, 3851443.58	1.08E-01	1.78E-02	9.58E-02	1.11E-03	5.85E-05	5.07E-04	1.34E-07	0.22363512	7.42E-02	1.78E-02	9.58E-02	1.11E-03	5.85E-05	9.42E-05	5.07E-04	1.90E-01
5396	481110.22, 3851443.15	8.46E-02	1.35E-02	7.42E-02	1.09E-03	5.90E-05	5.04E-04	1.36E-07	0.173849	5.74E-02	1.35E-02	7.42E-02	1.09E-03	5.90E-05	9.61E-05	5.04E-04	1.47E-01
5397	481111.1, 3851417.45	6.70E-02	1.09E-02	6.25E-02	1.08E-03	5.86E-05	4.98E-04	1.35E-07	0.14211891	4.58E-02	1.09E-02	6.25E-02	1.08E-03	5.86E-05	9.61E-05	4.98E-04	1.21E-01
5398	482248.44, 3852605.09	9.60E-02	2.05E-02	9.14E-02	1.86E-03	9.98E-05	7.24E-04	1.76E-07	0.21055123	7.16E-02	2.05E-02	9.14E-02	1.86E-03	9.98E-05	1.50E-04	7.24E-04	1.86E-01
5399	482273.34, 3852632.31	9.73E-02	2.09E-02	9.45E-02	1.89E-03	1.01E-04	7.31E-04	1.76E-07	0.21533848	7.28E-02	2.09E-02	9.45E-02	1.89E-03	1.01E-04	1.52E-04	7.31E-04	1.91E-01
5400	482665.46, 3853038.72	9.79E-02	1.67E-02	7.82E-02	2.52E-03	1.35E-04	8.71E-04	1.94E-07	0.19627089	6.78E-02	1.67E-02	7.82E-02	2.52E-03	1.35E-04	1.85E-04	8.71E-04	1.66E-01
5401	483077.95, 3853844.31	1.14E-01	7.85E-03	3.84E-03	1.73E-02	1.42E-03	1.15E-03	2.21E-07	0.14578711	6.19E-02	7.85E-03	3.84E-03	1.73E-02	1.42E-03	2.41E-04	1.15E-03	9.37E-02
5402	483121.38, 3853909.38	1.31E-01	7.13E-03	3.42E-03	1.89E-02	1.34E-03	1.17E-03	2.24E-07	0.16300489	6.93E-02	7.13E-03	3.42E-03	1.89E-02	1.34E-03	2.53E-04	1.17E-03	1.02E-01
5403	483492.64, 3853911.49	8.56E-02	2.71E-03	3.38E-03	1.11E-02	6.81E-04	1.16E-03	2.30E-07	0.10463723	4.42E-02	2.71E-03	3.38E-03	1.11E-02	6.81E-04	3.41E-04	1.16E-03	6.36E-02
5404	483498.29, 3854204.73	1.36E-01	6.53E-03	2.38E-03	2.04E-02	9.36E-04	1.32E-03	2.42E-07	0.16755907	6.89E-02	6.53E-03	2.38E-03	2.04E-02	9.36E-04	3.60E-04	1.32E-03	1.01E-01
5405	484132.44, 3854662.55	1.60E-01	1.07E-02	1.40E-03	1.97E-02	1.92E-03	1.97E-03	2.40E-07	0.19588508	7.94E-02	1.07E-02	1.40E-03	1.97E-02	1.92E-03	5.66E-04	1.97E-03	1.16E-01
5406	484627.62, 3854876.13	1.61E-01	9.45E-03	1.35E-03	2.34E-02	7.27E-03	3.20E-03	2.76E-07	0.20540978	7.96E-02	9.45E-03	1.35E-03	2.34E-02	7.27E-03	1.04E-03	3.20E-03	1.25E-01
5407	484756.14, 3854949.04	1.58E-01	9.45E-03	1.34E-03	2.50E-02	6.97E-03	3.84E-03	2.94E-07	0.20446139	7.81E-02	9.45E-03	1.34E-03	2.50E-02	6.97E-03	1.38E-03	3.84E-03	1.26E-01
5408	486697.51, 3856599.17	1.48E-01	3.83E-03	9.01E-04	3.96E-02	6.69E-03	2.78E-02	7.74E-07	0.22656374	7.35E-02	3.83E-03	9.01E-04	3.96E-02	6.69E-03	1.82E-02	2.78E-02	1.70E-01
5409	487105.31, 3856962.27	1.61E-01	3.67E-03	9.22E-04	4.66E-02	6.31E-03	3.02E-02	1.12E-06	0.24887585	8.02E-02	3.67E-03	9.22E-04	4.66E-02	6.31E-03	1.94E-02	3.02E-02	1.87E-01
5410	487157.57, 3856901.7	1.35E-01	2.89E-03	9.24E-04	4.24E-02	4.80E-03	2.48E-02	1.13E-06	0.21081213	6.73E-02	2.89E-03	9.24E-04	4.24E-02	4.80E-03	1.48E-02	2.48E-02	1.58E-01
5411	487173.5, 3856853.74	1.21E-01	2.59E-03	9.21E-04	4.02E-02	4.25E-03	2.28E-02	1.10E-06	0.19167096	6.04E-02	2.59E-03	9.21E-04	4.02E-02	4.25E-03	1.32E-02	2.28E-02	1.44E-01
5412	487564.41, 3856860.83	1.08E-01	1.74E-03	9.15E-04	3.31E-02	2.54E-03	1.60E-02	1.14E-06	0.16191094	5.38E-02	1.74E-03	9.15E-04	3.31E-02	2.54E-03	7.67E-03	1.60E-02	1.16E-01
5413	487563.31, 3856931.58	1.30E-01	1.86E-03	9.22E-04	3.49E-02	2.61E-03	1.63E-02	1.21E-06	0.18683637	6.48E-02	1.86E-03	9.22E-04	3.49E-02	2.61E-03	7.71E-03	1.63E-02	1.29E-01
5414	487782.7, 3856926.85	1.13E-01	1.58E-03	9.30E-04	3.14E-02	2.14E-03	1.40E-02	1.26E-06	0.1632435	5.64E-02	1.58E-03	9.30E-04	3.14E-02	2.14E-03	5.93E-03	1.40E-02	1.12E-01
5415	487782.39, 3856757.07	7.94E-02	1.40E-03	9.18E-04	2.82E-02	2.01E-03	1.35E-02	1.10E-06	0.1253884	3.99E-02	1.40E-03	9.18E-04	2.82E-02	2.01E-03	5.95E-03	1.35E-02	9.18E-02
5416	487917.26, 3856752.41	7.72E-02	1.30E-03	9.22E-04	2.68E-02	1.82E-03	1.26E-02	1.14E-06	0.1206369	3.88E-02	1.30E-03	9.22E-04	2.68E-02	1.82E-03	5.29E-03	1.26E-02	8.75E-02
5417	487919.57, 3856953.35	1.07E-01	1.48E-03	9.42E-04	3.01E-02	1.94E-03	1.30E-02	1.34E-06	0.15430947	5.33E-02	1.48E-03	9.42E-04	3.01E-02	1.94E-03	5.07E-03	1.30E-02	1.06E-01
5418	487932.76, 3857000.32	1.12E-01	1.52E-03	9.45E-04	3.07E-02	1.96E-03	1.28E-02	1.39E-06	0.15988353	5.58E-02	1.52E-03	9.45E-04	3.07E-02	1.96E-03	4.84E-03	1.28E-02	1.09E-01
5419	487960.5, 3857044.75	1.15E-01	1.54E-03	9.50E-04	3.11E-02	1.95E-03	1.26E-02	1.45E-06	0.16261805	5.71E-02	1.54E-03	9.50E-04	3.11E-02	1.95E-03	4.52E-03	1.26E-02	1.10E-01
5420	488016.54, 3857089.54	1.14E-01	1.54E-03	9.57E-04	3.10E-02	1.91E-03	1.21E-02	1.52E-06	0.16105409	5.66E-02	1.54E-03	9.57E-04	3.10E-02	1.91E-03	4.09E-03	1.21E-02	1.08E-01
5421	488114.39, 3857165.47	1.10E-01	1.54E-03	9.73E-04	3.11E-02	1.83E-03	1.15E-02	1.68E-06	0.15706674	5.51E-02	1.54E-03	9.73E-04	3.11E-02	1.83E-03	3.43E-03	1.15E-02	1.05E-01
5422	488171.49, 3857234.24	1.09E-01	1.57E-03	9.91E-04	3.13E-02	1.79E-03	1.11E-02	1.83E-06	0.15530711	5.43E-02	1.57E-03	9.91E-04	3.13E-02	1.79E-03	2.99E-03	1.11E-02	1.04E-01
5423	488193.16, 3857297.8	1.08E-01	1.63E-03	1.01E-03	3.20E-02	1.79E-03	1.11E-02	1.98E-06	0.15592815	5.43E-02	1.63E-03	1.01E-03	3.20E-02	1.79E-03	2.67E-03	1.11E-02	1.04E-01
5424	488189.27, 3857649.94	1.13E-01	2.32E-03	1.15E-03	3.80E-02	1.94E-03	1.18E-02	3.33E-06	0.16863978	5.73E-02	2.32E-03	1.15E-03	3.80E-02	1.94E-03	1.45E-03	1.18E-02	1.14E-01
5425	488127.43, 3857732.32	1.23E-01	2.78E-03	1.19E-03	4.15E-02	2.10E-03	1.23E-02	3.95E-06	0.18258318	6.20E-02	2.78E-03	1.19E-03	4.15E-02	2.10E-03	1.26E-03	1.23E-02	1.23E-01
5426	488149.93, 3857752.94	1.17E-01	2.79E-03	1.20E-03	4.13E-02	2.02E-03	1.25E-02	4.15E-06	0.17672869	5.93E-02	2.79E-03	1.20E-03	4.13E-02	2.02E-03	1.22E-03	1.25E-02	1.20E-01
5427	488144.76, 3857758.71	1.18E-01	2.83E-03	1.20E-03	4.16E-02	2.03E-03	1.25E-02	4.21E-06	0.1783609	5.99E-02	2.83E-03	1.20E-03	4.16E-02	2.03E-03	1.21E-03	1.25E-02	1.21E-01
5428	488335.58, 3857932.55	1.11E-01	2.93E-03	1.38E-03	3.81E-02	1.43E-03	3.82E-02	8.51E-06	0.19276293	5.65E-02	2.93E-03	1.38E-03	3.81E-02	1.43E-03	1.26E-03	3.82E-02	1.40E-01
5429	488372.29, 3857943.79	1.07E-01	2.85E-03	1.40E-03	3.71E-02	1.38E-03	3.77E-02	9.39E-06	0.18741833	5.47E-02	2.85E-03	1.40E-03	3.71E-02	1.38E-03	1.24E-03	3.77E-02	1.36E-01
5430	488828.64, 3857936.4	7.53E-02	1.89E-03	1.44E-03	2.71E-02	1.03E-03	1.90E-02	1.12E-05	0.12568137	3.87E-02	1.89E-03	1.44E-03	2.71E-02	1.03E-03	1.03E-03	1.90E-02	9.01E-02
5431	488829.08, 3857959.58	7.73E-02	1.93E-03	1.47E-03	2.71E-02	1.02E-03	1.88E-02	1.25E-05	0.12766315	3.97E-02	1.93E-03	1.47E-03	2.71E-02	1.02E-03	1.00E-03	1.88E-02	9.11E-02
5432	488351.61, 3857964.55	1.14E-01	3.03E-03	1.42E-03	3.80E-02	1.38E-03	4.03E-02	1.09E-05	0.19851803	5.84E-02	3.03E-03	1.42E-03	3.80E-02	1.38E-03	1.25E-03	4.03E-02	1.44E-01
5433	488316.87, 3857947.65	1.17E-01	3.08E-03	1.39E-03	3.89E-02	1.44E-03	4.11E-02	9.36E-06	0.20322224	5.98E-02	3.08E-03	1.39E-03	3.89E-02	1.44E-03	1.28E-03	4.11E-02	1.47E-01
5434	488129.1, 3857775.77	1.22E-01	2.97E-03	1.21E-03	4.25E-02	2.06E-03	1.27E-02	4.41E-06	0.18386321	6.20E-02	2.97E-03	1.21E-03	4.25E-02	2.06E-03	1.18E-03	1.27E-02	1.25E-01
5435	488062.53, 3857846.13	1.67E-01	3.82E-03	1.24E-03	4.70E-02	2.13E-03	1.36E-02	5.24E-06	0.23521995	8.42E-02	3.82E-03	1.24E-03	4.70E-02	2.13E-03	1.06E-03	1.36E-02	1.53E-01
5436	488330.41, 3858091.34	1.73E-01	3.97E-03	1.53E-03	4.09E-02	1.36E-03	2.51E-02	1.80E-04	0.245721	8.73E-02	3.97E-03	1.53E-03	4.09E-02	1.36E-03	9.09E-04	2.51E-02	1.61E-01
5437	488470.87, 3858174.45	1.59E-01	3.74E-03	1.72E-03	3.64E-02	1.25E-03	1.86E-02	1.03E-04	0.22047542	8.06E-02	3.74E-03	1.72E-03	3.64E-02	1.25E-03	7.45E-04	1.86E-02	1.43E-01
5438	488568.9, 3858262.31	1.76E-01	3.92E-03	1.92E-03	3.22E-02	1.23E-03	1.70E-02	9.69E-05	0.23243201	8.94E-02	3.92E-03	1.92E-03	3.22E-02	1.23E-03	6.48E-04	1.70E-02	1.46E-01
5439	488964.27, 3858025.71	9.89E-02	1.87E-03	1.54E-03	2.50E-02	9.29E-04	1.63E-02	1.52E-05	0.14456572	5.02E-02	1.87E-03	1.54E-03	2.50E-02	9.29E-04	9.00E-04	1.63E-02	9.68E-02
5440	489147.25, 3857956.64	9.19E-02	1.58E-03	1.43E-03	2.27E-02	8.77E-04	1.48E-02	1.13E-05	0.13329424	4.65E-02	1.58E-03	1.43E-03	2.27E-02	8.77E-04	9.58E-04	1.48E-02	8.89E-02
5441	489343.52, 3857932.45	9.70E-02	1.40E-03	1.32E-03	2.06E-02	8.17E-04	1.33E-02	1.01E-05	0.134505	4.89E-02	1.40E-03	1.32E-03	2.06E-02	8.17E-04	9.59E-04	1.33E-02	8.73E-02
5442	489866.19, 3857923.19	9.26E-02	1.13E-03	1.21E-03	1.63E-02	6.77E-04	1.09E-02	9.91E-06	0.12284172	4.64E-02	1.13E-03	1.21E-03	1.63E-02	6.77E-04	8.93E-04	1.09E-02	7.76E-02
5443	489955.65, 3857902.27	8.51E-02	1.09E-03	1.17E-03	1.58E-02	6.61E-04	1.05E-02	9.47E-06	0.11432746	4.27E-02	1.09E-03	1.17E-03	1.58E-02	6.61E-04	8.95E-04	1.05E-02	7.28E-02
5444	490079.44, 3857847.9	6.31E-02	1.03E-03	1.15E-03	1.52E-02	6.44E-04	1.01E-02	8.67E-06	0.09124249	3.19E-02	1.03E-03	1.15E-03	1.52E-02	6.44E-04	9.11E-04	1.01E-02	6.10E-02

5445	490108.49, 3857934.13	7.33E-02	1.06E-03	1.21E-03	1.48E-02	6.24E-04	1.02E-02	1.07E-05	0.10121849	3.70E-02	1.06E-03	1.21E-03	1.48E-02	6.24E-04	8.50E-04	1.02E-02	6.57E-02
5446	489884.48, 3858014.17	6.83E-02	1.18E-03	1.30E-03	1.59E-02	6.56E-04	1.10E-02	1.26E-05	0.09828146	3.47E-02	1.18E-03	1.30E-03	1.59E-02	6.56E-04	8.27E-04	1.10E-02	6.55E-02
5447	489326.56, 3858025.86	9.02E-02	1.51E-03	1.44E-03	2.05E-02	7.98E-04	1.34E-02	1.30E-05	0.12780744	4.57E-02	1.51E-03	1.44E-03	2.05E-02	7.98E-04	8.74E-04	1.34E-02	8.41E-02
5448	489130.38, 3858056.71	1.02E-01	1.72E-03	1.54E-03	2.26E-02	8.56E-04	1.45E-02	1.51E-05	0.14321901	5.16E-02	1.72E-03	1.54E-03	2.26E-02	8.56E-04	8.60E-04	1.45E-02	9.37E-02
5449	488936.49, 3858143.93	1.14E-01	2.15E-03	1.71E-03	2.49E-02	9.20E-04	1.55E-02	2.22E-05	0.15950341	5.80E-02	2.15E-03	1.71E-03	2.49E-02	9.20E-04	7.68E-04	1.55E-02	1.04E-01
5450	488638.08, 3858327.45	1.65E-01	4.01E-03	2.08E-03	2.89E-02	1.21E-03	1.66E-02	9.66E-05	0.21798713	8.43E-02	4.01E-03	2.08E-03	2.89E-02	1.21E-03	6.02E-04	1.66E-02	1.38E-01
5451	488663.79, 3858349.57	1.60E-01	4.02E-03	2.15E-03	2.77E-02	1.21E-03	1.65E-02	9.50E-05	0.21180794	8.19E-02	4.02E-03	2.15E-03	2.77E-02	1.21E-03	5.89E-04	1.65E-02	1.34E-01
5452	488694.56, 3858349.5	1.48E-01	3.81E-03	2.16E-03	2.70E-02	1.17E-03	1.63E-02	7.72E-05	0.19847406	7.59E-02	3.81E-03	2.16E-03	2.70E-02	1.17E-03	5.88E-04	1.63E-02	1.27E-01
5453	488694.35, 3858336.75	1.45E-01	3.72E-03	2.12E-03	2.73E-02	1.15E-03	1.63E-02	7.15E-05	0.19547804	7.43E-02	3.72E-03	2.12E-03	2.73E-02	1.15E-03	5.96E-04	1.63E-02	1.25E-01
5454	488712.81, 3858336.38	1.38E-01	3.61E-03	2.12E-03	2.68E-02	1.13E-03	1.62E-02	6.49E-05	0.18764602	7.07E-02	3.61E-03	2.12E-03	2.68E-02	1.13E-03	5.96E-04	1.62E-02	1.21E-01
5455	488713.23, 3858367.46	1.44E-01	3.84E-03	2.21E-03	2.61E-02	1.17E-03	1.63E-02	7.75E-05	0.19346235	7.39E-02	3.84E-03	2.21E-03	2.61E-02	1.17E-03	5.78E-04	1.63E-02	1.24E-01
5456	488704.63, 3858384.05	1.49E-01	4.04E-03	2.26E-03	2.59E-02	1.20E-03	1.64E-02	9.25E-05	0.19862152	7.65E-02	4.04E-03	2.26E-03	2.59E-02	1.20E-03	5.69E-04	1.64E-02	1.27E-01
5457	488604.15, 3858488.29	1.67E-01	7.05E-03	2.62E-03	2.50E-02	1.70E-03	1.79E-02	3.05E-05	0.22128775	8.73E-02	7.05E-03	2.62E-03	2.50E-02	1.70E-03	5.30E-04	1.79E-02	1.42E-01
5458	488605.66, 3858550.47	1.82E-01	9.47E-03	2.91E-03	2.33E-02	2.07E-03	1.89E-02	2.29E-05	0.23827	9.58E-02	9.47E-03	2.91E-03	2.33E-02	2.07E-03	5.08E-04	1.89E-02	1.53E-01
5459	488692.68, 3858548.71	1.65E-01	6.71E-03	3.01E-03	2.17E-02	1.64E-03	1.84E-02	3.44E-05	0.21679716	8.67E-02	6.71E-03	3.01E-03	2.17E-02	1.64E-03	5.03E-04	1.84E-02	1.39E-01
5460	488759.93, 3858461.81	1.29E-01	4.38E-03	2.58E-03	2.27E-02	1.23E-03	1.67E-02	1.18E-04	0.17658701	6.72E-02	4.38E-03	2.58E-03	2.27E-02	1.23E-03	5.32E-04	1.67E-02	1.15E-01
5461	488816.57, 3858541.79	1.57E-01	4.81E-03	3.04E-03	2.01E-02	1.29E-03	1.76E-02	1.67E-04	0.20376007	8.14E-02	4.81E-03	3.04E-03	2.01E-02	1.29E-03	4.99E-04	1.76E-02	1.29E-01
5462	488944.63, 3858656.77	1.27E-01	5.11E-03	4.12E-03	1.70E-02	1.28E-03	1.95E-02	1.63E-04	0.17464713	6.77E-02	5.11E-03	4.12E-03	1.70E-02	1.28E-03	4.57E-04	1.95E-02	1.15E-01
5463	489134.91, 3858830.7	1.10E-01	6.14E-03	1.31E-02	1.34E-02	1.03E-03	2.39E-02	1.75E-04	0.16825826	6.08E-02	6.14E-03	1.31E-02	1.34E-02	1.03E-03	4.06E-04	2.39E-02	1.19E-01
5464	489193.99, 3858886.05	1.12E-01	6.61E-03	2.07E-02	1.18E-02	8.01E-04	2.51E-02	2.05E-04	0.17722588	6.22E-02	6.61E-03	2.07E-02	1.18E-02	8.01E-04	3.92E-04	2.51E-02	1.28E-01
5465	489295.2, 3858954.34	1.13E-01	6.80E-03	2.75E-02	9.96E-03	5.81E-04	2.55E-02	8.78E-05	0.18361461	6.32E-02	6.80E-03	2.75E-02	9.96E-03	5.81E-04	3.74E-04	2.55E-02	1.34E-01
5466	489295.64, 3858992.74	1.22E-01	8.10E-03	3.49E-02	9.32E-03	5.22E-04	2.66E-02	7.62E-05	0.20147934	6.90E-02	8.10E-03	3.49E-02	9.32E-03	5.22E-04	3.68E-04	2.66E-02	1.49E-01
5467	489183.74, 3858911.72	1.15E-01	7.60E-03	2.63E-02	1.13E-02	7.51E-04	2.63E-02	9.66E-05	0.18708495	6.46E-02	7.60E-03	2.63E-02	1.13E-02	7.51E-04	3.88E-04	2.63E-02	1.37E-01
5468	488873.37, 3858625.59	1.54E-01	5.41E-03	3.76E-03	1.81E-02	1.37E-03	1.91E-02	7.34E-05	0.20173948	8.07E-02	5.41E-03	3.76E-03	1.81E-02	1.37E-03	4.69E-04	1.91E-02	1.29E-01
5469	488842.84, 3858658.69	1.57E-01	6.54E-03	4.13E-03	1.82E-02	1.58E-03	2.03E-02	4.40E-05	0.20789433	8.33E-02	6.54E-03	4.13E-03	1.82E-02	1.58E-03	4.62E-04	2.03E-02	1.34E-01
5470	488856.39, 3858670.93	1.51E-01	6.60E-03	4.31E-03	1.79E-02	1.58E-03	2.06E-02	4.46E-05	0.20230337	8.05E-02	6.60E-03	4.31E-03	1.79E-02	1.58E-03	4.58E-04	2.06E-02	1.32E-01
5471	488805.7, 3858724.5	1.67E-01	1.02E-02	5.21E-03	1.89E-02	2.21E-03	2.34E-02	2.54E-05	0.22671132	9.09E-02	1.02E-02	5.21E-03	1.89E-02	2.21E-03	4.47E-04	2.34E-02	1.51E-01
5472	488805.87, 3858804.16	1.84E-01	2.06E-02	8.07E-03	2.19E-02	3.68E-03	2.84E-02	1.97E-05	0.26690082	1.06E-01	2.06E-02	8.07E-03	2.19E-02	3.68E-03	4.27E-04	2.84E-02	1.89E-01
5473	488995.78, 3858936.96	1.84E-01	2.23E-02	7.41E-02	1.22E-02	8.60E-04	3.29E-02	2.45E-05	0.32646303	1.10E-01	2.23E-02	7.41E-02	1.22E-02	8.60E-04	3.92E-04	3.29E-02	2.53E-01
5474	489130.76, 3859017.38	1.70E-01	2.06E-02	8.31E-02	9.15E-03	5.13E-04	3.19E-02	3.60E-05	0.31567944	1.05E-01	2.06E-02	8.31E-02	9.15E-03	5.13E-04	3.73E-04	3.19E-02	2.51E-01
5475	489130.92, 3859052.24	1.93E-01	3.22E-02	7.34E-02	8.47E-03	4.50E-04	3.29E-02	3.40E-05	0.34012075	1.28E-01	3.22E-02	7.34E-02	8.47E-03	4.50E-04	3.67E-04	3.29E-02	2.76E-01
5476	489200.33, 3859090.6	1.88E-01	3.05E-02	9.35E-02	7.85E-03	4.00E-04	3.16E-02	5.98E-05	0.35184622	1.26E-01	3.05E-02	9.35E-02	7.85E-03	4.00E-04	3.58E-04	3.16E-02	2.90E-01
5477	489296.07, 3859143.7	1.88E-01	2.99E-02	1.01E-01	7.18E-03	3.51E-04	2.97E-02	6.53E-05	0.35607049	1.26E-01	2.99E-02	1.01E-01	7.18E-03	3.51E-04	3.46E-04	2.97E-02	2.94E-01
5478	489296.43, 3858954.74	1.13E-01	6.79E-03	2.75E-02	9.95E-03	5.80E-04	2.55E-02	8.70E-05	0.18343929	6.31E-02	6.79E-03	2.75E-02	9.95E-03	5.80E-04	3.74E-04	2.55E-02	1.34E-01
5479	489410.33, 3859033.19	1.30E-01	7.15E-03	3.27E-02	8.53E-03	4.45E-04	2.51E-02	4.47E-05	0.20381713	7.19E-02	7.15E-03	3.27E-02	8.53E-03	4.45E-04	3.56E-04	2.51E-02	1.46E-01
5480	489371.37, 3859089.8	1.38E-01	1.11E-02	5.03E-02	7.84E-03	3.95E-04	2.70E-02	4.66E-05	0.23428116	8.03E-02	1.11E-02	5.03E-02	7.84E-03	3.95E-04	3.49E-04	2.70E-02	1.77E-01
5481	489390.52, 3859102.82	1.40E-01	1.13E-02	5.13E-02	7.68E-03	3.83E-04	2.68E-02	4.30E-05	0.23729563	8.16E-02	1.13E-02	5.13E-02	7.68E-03	3.83E-04	3.47E-04	2.68E-02	1.79E-01
5482	489382.3, 3859114.53	1.45E-01	1.28E-02	5.72E-02	7.54E-03	3.73E-04	2.71E-02	4.38E-05	0.25043262	8.60E-02	1.28E-02	5.72E-02	7.54E-03	3.73E-04	3.46E-04	2.71E-02	1.91E-01
5483	489363.04, 3859102.45	1.42E-01	1.27E-02	5.64E-02	7.69E-03	3.85E-04	2.74E-02	4.76E-05	0.24644517	8.41E-02	1.27E-02	5.64E-02	7.69E-03	3.85E-04	3.48E-04	2.74E-02	1.89E-01
5484	489337.52, 3859140.71	1.67E-01	2.12E-02	8.69E-02	7.23E-03	3.53E-04	2.86E-02	5.18E-05	0.31082941	1.06E-01	2.12E-02	8.69E-02	7.23E-03	3.53E-04	3.44E-04	2.86E-02	2.50E-01
5485	489375.14, 3859164.55	1.77E-01	2.19E-02	9.17E-02	6.98E-03	3.36E-04	2.79E-02	4.35E-05	0.32552612	1.11E-01	2.19E-02	9.17E-02	6.98E-03	3.36E-04	3.39E-04	2.79E-02	2.61E-01
5486	489409.3, 3859114.5	1.41E-01	1.14E-02	5.20E-02	7.53E-03	3.72E-04	2.65E-02	4.00E-05	0.2386729	8.22E-02	1.14E-02	5.20E-02	7.53E-03	3.72E-04	3.44E-04	2.65E-02	1.80E-01
5487	489434.87, 3859131.81	1.48E-01	1.17E-02	5.37E-02	7.34E-03	3.58E-04	2.61E-02	3.66E-05	0.24672882	8.58E-02	1.17E-02	5.37E-02	7.34E-03	3.58E-04	3.41E-04	2.61E-02	1.85E-01
5488	489471.87, 3859075.75	1.23E-01	7.42E-03	3.50E-02	7.95E-03	3.97E-04	2.46E-02	3.62E-05	0.19792343	6.86E-02	7.42E-03	3.50E-02	7.95E-03	3.97E-04	3.47E-04	2.46E-02	1.44E-01
5489	489602.62, 3859164.69	1.38E-01	8.03E-03	4.01E-02	6.99E-03	3.29E-04	2.32E-02	2.64E-05	0.2168601	7.70E-02	8.03E-03	4.01E-02	6.99E-03	3.29E-04	3.28E-04	2.32E-02	1.56E-01
5490	489558.29, 3859232.45	1.58E-01	1.51E-02	7.12E-02	6.39E-03	2.96E-04	2.44E-02	2.58E-05	0.27574917	9.52E-02	1.51E-02	7.12E-02	6.39E-03	2.96E-04	3.22E-04	2.44E-02	2.13E-01
5491	489620.11, 3859273.56	1.66E-01	1.61E-02	7.65E-02	6.08E-03	2.77E-04	2.35E-02	2.25E-05	0.28798619	1.00E-01	1.61E-02	7.65E-02	6.08E-03	2.77E-04	3.13E-04	2.35E-02	2.23E-01
5492	489666.06, 3859206.42	1.26E-01	8.32E-03	4.23E-02	6.62E-03	3.05E-04	2.25E-02	2.34E-05	0.20599681	7.14E-02	8.32E-03	4.23E-02	6.62E-03	3.05E-04	3.19E-04	2.25E-02	1.52E-01
5493	489787.9, 3859285.65	1.37E-01	8.92E-03	4.64E-02	6.02E-03	2.70E-04	2.10E-02	1.89E-05	0.21926362	7.74E-02	8.92E-03	4.64E-02	6.02E-03	2.70E-04	3.04E-04	2.10E-02	1.60E-01
5494	489752.17, 3859343.13	1.55E-01	1.57E-02	7.63E-02	5.63E-03	2.51E-04	2.15E-02	1.75E-05	0.27406998	9.42E-02	1.57E-02	7.63E-02	5.63E-03	2.51E-04	2.99E-04	2.15E-02	2.14E-01
5495	489814.94, 3859385.33	1.62E-01	1.69E-02	8.23E-02	5.38E-03	2.38E-04	2.06E-02	1.53E-05	0.28775175	9.93E-02	1.69E-02	8.23E-02	5.38E-03	2.38E-04	2.91E-04	2.06E-02	2.25E-01
5496	489853.42, 3859330.74	1.25E-01	9.42E-03	4.93E-02	5.73E-03	2.54E-04	2.02E-02	1.70E-05	0.20980024	7.23E-02	9.42E-03	4.93E-02	5.73E-03	2.54E-04	2.96E-04	2.02E-02	1.57E-01
5497	489969.5, 3859401.91	1.45E-01	9.89E-03	5.23E-02	5.32E-03	2.32E-04	1.89E-02	1.39E-05	0.23168429	8.26E-02	9.89E-03	5.23E-02	5.32E-03	2.32E-04	2.83E-04	1.89E-02	1.69E-01
5498	490166.91, 3859486.96	1.29E-01	9.00E-03	4.85E-02	4.91E-03	2.10E-04	1.71E-02	1.10E-05	0.20911678	7.39E-02	9.00E-03	4.85E-02	4.91E-03	2.10E-04	2.67E-04	1.71E-02	1.54E-01

5499	490128.86, 3859571.46	1.55E-01	2.25E-02	1.13E-01	4.50E-03	1.93E-04	1.73E-02	8.61E-06	0.31193063	1.03E-01	2.25E-02	1.13E-01	4.50E-03	1.93E-04	2.59E-04	1.73E-02	2.60E-01
5500	490186.65, 3859593.65	1.59E-01	2.27E-02	1.15E-01	4.42E-03	1.89E-04	1.69E-02	8.08E-06	0.31799885	1.05E-01	2.27E-02	1.15E-01	4.42E-03	1.89E-04	2.54E-04	1.69E-02	2.64E-01
5501	490223.74, 3859517.48	1.19E-01	9.36E-03	5.02E-02	4.77E-03	2.04E-04	1.66E-02	1.04E-05	0.1999658	6.92E-02	9.36E-03	5.02E-02	4.77E-03	2.04E-04	2.62E-04	1.66E-02	1.51E-01
5502	490846.34, 3859817.22	1.32E-01	1.40E-02	7.44E-02	3.81E-03	1.58E-04	1.25E-02	6.49E-06	0.23697543	8.09E-02	1.40E-02	7.44E-02	3.81E-03	1.58E-04	2.23E-04	1.25E-02	1.86E-01
5503	490925.65, 3859844.59	1.29E-01	1.29E-02	6.90E-02	3.74E-03	1.55E-04	1.21E-02	6.31E-06	0.22700789	7.82E-02	1.29E-02	6.90E-02	3.74E-03	1.55E-04	2.20E-04	1.21E-02	1.76E-01
5504	491159.29, 3859896.28	1.19E-01	8.83E-03	5.01E-02	3.61E-03	1.49E-04	1.12E-02	6.03E-06	0.19246065	6.85E-02	8.83E-03	5.01E-02	3.61E-03	1.49E-04	2.13E-04	1.12E-02	1.43E-01
5505	491370.69, 3859960.89	1.03E-01	6.72E-03	3.76E-02	3.44E-03	1.41E-04	1.03E-02	5.56E-06	0.16134539	5.84E-02	6.72E-03	3.76E-02	3.44E-03	1.41E-04	2.05E-04	1.03E-02	1.17E-01
5506	491330.28, 3860063.17	1.21E-01	1.24E-02	5.93E-02	3.18E-03	1.31E-04	1.02E-02	3.51E-06	0.20641558	7.43E-02	1.24E-02	5.93E-02	3.18E-03	1.31E-04	1.93E-04	1.02E-02	1.60E-01
5507	491636.45, 3860180.75	9.60E-02	6.81E-03	3.77E-02	2.98E-03	1.22E-04	8.88E-03	3.02E-06	0.15250989	5.50E-02	6.81E-03	3.77E-02	2.98E-03	1.22E-04	1.83E-04	8.88E-03	1.12E-01
5508	491617.94, 3860203.93	1.10E-01	7.89E-03	4.25E-02	2.93E-03	1.20E-04	8.85E-03	2.92E-06	0.17235436	6.30E-02	7.89E-03	4.25E-02	2.93E-03	1.20E-04	1.81E-04	8.85E-03	1.26E-01
5509	491805.68, 3860271.59	8.06E-02	5.93E-03	3.32E-02	2.82E-03	1.15E-04	8.12E-03	2.68E-06	0.13072602	4.63E-02	5.93E-03	3.32E-02	2.82E-03	1.15E-04	1.76E-04	8.12E-03	9.67E-02
5510	491654.23, 3860414.02	1.21E-01	3.15E-02	5.77E-02	2.54E-03	1.05E-04	7.96E-03	2.36E-06	0.22069531	9.56E-02	3.15E-02	5.77E-02	2.54E-03	1.05E-04	1.65E-04	7.96E-03	1.96E-01
5511	491592.62, 3860510.76	3.13E-02	5.66E-03	1.97E-02	2.36E-03	9.90E-05	7.65E-03	2.17E-06	0.06672462	2.23E-02	5.66E-03	1.97E-02	2.36E-03	9.90E-05	1.58E-04	7.65E-03	5.79E-02
5512	491475.41, 3860368.93	6.12E-02	9.47E-03	3.03E-02	2.56E-03	1.07E-04	8.55E-03	2.43E-06	0.11219906	4.17E-02	9.47E-03	3.03E-02	2.56E-03	1.07E-04	1.67E-04	8.55E-03	9.29E-02
5513	491445.61, 3860337.28	6.62E-02	1.06E-02	3.32E-02	2.61E-03	1.09E-04	8.77E-03	2.51E-06	0.12146614	4.55E-02	1.06E-02	3.32E-02	2.61E-03	1.09E-04	1.69E-04	8.77E-03	1.01E-01
5514	491399.05, 3860300.37	6.78E-02	1.09E-02	3.48E-02	2.67E-03	1.11E-04	9.08E-03	2.61E-06	0.12544038	4.65E-02	1.09E-02	3.48E-02	2.67E-03	1.11E-04	1.72E-04	9.08E-03	1.04E-01
5515	491228.84, 3860235.98	5.00E-02	5.48E-03	2.35E-02	2.76E-03	1.15E-04	9.93E-03	2.80E-06	0.09185748	3.10E-02	5.48E-03	2.35E-02	2.76E-03	1.15E-04	1.78E-04	9.93E-03	7.30E-02
5516	491228.47, 3860174.57	7.59E-02	1.06E-02	3.71E-02	2.90E-03	1.20E-04	1.02E-02	3.00E-06	0.13683415	4.96E-02	1.06E-02	3.71E-02	2.90E-03	1.20E-04	1.82E-04	1.02E-02	1.11E-01
5517	491145.77, 3860112.55	7.29E-02	1.06E-02	3.82E-02	3.03E-03	1.26E-04	1.08E-02	3.25E-06	0.13562779	4.81E-02	1.06E-02	3.82E-02	3.03E-03	1.26E-04	1.89E-04	1.08E-02	1.11E-01
5518	490844.41, 3859966.22	7.05E-02	9.29E-03	3.64E-02	3.36E-03	1.41E-04	1.25E-02	4.05E-06	0.1321867	4.60E-02	9.29E-03	3.64E-02	3.36E-03	1.41E-04	2.07E-04	1.25E-02	1.08E-01
5519	490845.55, 3859928.15	1.10E-01	2.00E-02	5.79E-02	3.47E-03	1.45E-04	1.26E-02	4.30E-06	0.20386265	7.93E-02	2.00E-02	5.79E-02	3.47E-03	1.45E-04	2.10E-04	1.26E-02	1.74E-01
5520	490046.91, 3859625.6	9.40E-02	1.42E-02	4.46E-02	4.24E-03	1.84E-04	1.79E-02	8.07E-06	0.17513226	6.30E-02	1.42E-02	4.46E-02	4.24E-03	1.84E-04	2.57E-04	1.79E-02	1.44E-01
5521	489970.48, 3859589.4	9.79E-02	1.47E-02	4.46E-02	4.37E-03	1.91E-04	1.86E-02	9.06E-06	0.18031071	6.58E-02	1.47E-02	4.46E-02	4.37E-03	1.91E-04	2.64E-04	1.86E-02	1.48E-01
5522	489865.89, 3859529.06	1.11E-01	1.59E-02	4.74E-02	4.61E-03	2.03E-04	1.97E-02	1.11E-05	0.19898565	7.39E-02	1.59E-02	4.74E-02	4.61E-03	2.03E-04	2.75E-04	1.97E-02	1.62E-01
5523	489826.89, 3859531.74	8.94E-02	1.03E-02	3.65E-02	4.59E-03	2.03E-04	2.01E-02	1.15E-05	0.16108564	5.63E-02	1.03E-02	3.65E-02	4.59E-03	2.03E-04	2.77E-04	2.01E-02	1.28E-01
5524	489410.47, 3859303.06	1.04E-01	9.93E-03	3.52E-02	5.76E-03	2.67E-04	2.77E-02	3.59E-05	0.18332759	6.34E-02	9.93E-03	3.52E-02	5.76E-03	2.67E-04	3.20E-04	2.77E-02	1.43E-01
5525	489407.15, 3859286.09	1.17E-01	1.27E-02	4.15E-02	5.88E-03	2.73E-04	2.78E-02	3.66E-05	0.20476342	7.31E-02	1.27E-02	4.15E-02	5.88E-03	2.73E-04	3.22E-04	2.78E-02	1.62E-01
5526	488806.07, 3858963.62	1.87E-01	8.42E-03	1.66E-02	1.08E-02	6.57E-04	4.74E-02	1.39E-05	0.27070462	1.05E-01	8.42E-03	1.66E-02	1.08E-02	6.57E-04	3.87E-04	4.74E-02	1.89E-01
5527	488817.64, 3859546.3	1.52E-01	9.68E-04	5.03E-03	4.74E-03	2.03E-04	5.54E-02	6.79E-06	0.21788097	7.50E-02	9.68E-04	5.03E-03	4.74E-03	2.03E-04	2.81E-04	5.54E-02	1.42E-01
5528	489187.25, 3859549.52	1.05E-01	1.39E-03	7.86E-03	4.67E-03	2.07E-04	3.08E-02	3.51E-05	0.14989548	5.28E-02	1.39E-03	7.86E-03	4.67E-03	2.07E-04	2.82E-04	3.08E-02	9.80E-02
5529	489187.66, 3859523.74	9.18E-02	1.47E-03	8.29E-03	4.76E-03	2.13E-04	3.15E-02	4.64E-05	0.13807532	4.65E-02	1.47E-03	8.29E-03	4.76E-03	2.13E-04	2.86E-04	3.15E-02	9.31E-02
5530	489232.59, 3859522.85	8.86E-02	1.57E-03	8.91E-03	4.75E-03	2.14E-04	3.01E-02	1.05E-04	0.13426219	4.51E-02	1.57E-03	8.91E-03	4.75E-03	2.14E-04	2.87E-04	3.01E-02	9.10E-02
5531	489224.98, 3859759.91	8.05E-02	9.94E-04	5.77E-03	4.01E-03	1.72E-04	2.64E-02	1.70E-05	0.1178724	4.04E-02	9.94E-04	5.77E-03	4.01E-03	1.72E-04	2.50E-04	2.64E-02	7.80E-02
5532	488401.39, 3859763.34	1.35E-01	6.03E-04	2.77E-03	3.84E-03	1.63E-04	7.35E-02	3.45E-06	0.21581156	6.65E-02	6.03E-04	2.77E-03	3.84E-03	1.63E-04	2.68E-04	7.35E-02	1.48E-01
5533	488405.51, 3859966.16	1.46E-01	5.36E-04	2.47E-03	3.33E-03	1.42E-04	7.39E-02	2.90E-06	0.22646671	7.18E-02	5.36E-04	2.47E-03	3.33E-03	1.42E-04	2.12E-04	7.39E-02	1.52E-01
5534	489202.85, 3859956.57	9.53E-02	7.70E-04	4.43E-03	3.53E-03	1.48E-04	2.82E-02	7.51E-06	0.13242649	4.74E-02	7.70E-04	4.43E-03	3.53E-03	1.48E-04	2.25E-04	2.82E-02	8.47E-02
5535	489191.9, 3860676.74	5.16E-02	4.51E-04	2.28E-03	2.28E-03	9.72E-05	1.98E-02	8.19E-06	0.07654829	2.57E-02	4.51E-04	2.28E-03	2.28E-03	9.72E-05	1.54E-04	1.98E-02	5.08E-02
5536	488392.82, 3860687.88	8.54E-02	3.70E-04	1.68E-03	2.21E-03	9.56E-05	1.92E-02	1.82E-06	0.10893564	4.20E-02	3.70E-04	1.68E-03	2.21E-03	9.56E-05	1.46E-04	1.92E-02	6.57E-02
5537	488392.82, 3860760.27	3.92E-02	3.60E-04	1.63E-03	2.15E-03	9.31E-05	1.42E-02	1.76E-06	0.05763265	1.95E-02	3.60E-04	1.63E-03	2.15E-03	9.31E-05	1.42E-04	1.42E-02	3.81E-02
5538	487549.05, 3860777.45	1.38E-02	3.03E-04	1.18E-03	2.05E-03	9.00E-05	8.07E-03	1.28E-06	0.02546098	7.08E-03	3.03E-04	1.18E-03	2.05E-03	9.00E-05	1.36E-04	8.07E-03	1.89E-02
5539	487554.62, 3859571.83	9.00E-02	4.95E-04	1.67E-03	4.20E-03	1.75E-04	3.22E-02	2.43E-06	0.12869946	4.45E-02	4.95E-04	1.67E-03	4.20E-03	1.75E-04	2.35E-04	3.22E-02	8.34E-02
5540	485949.46, 3859558.54	1.42E-02	3.39E-04	8.74E-04	3.70E-03	1.50E-04	7.69E-03	1.10E-06	0.02698061	7.37E-03	3.39E-04	8.74E-04	3.70E-03	1.50E-04	2.29E-04	7.69E-03	2.03E-02
5541	485947.55, 3857943.61	4.96E-02	7.23E-04	8.83E-04	1.36E-02	4.15E-04	1.77E-02	1.17E-06	0.08285063	2.53E-02	7.23E-04	8.83E-04	1.36E-02	4.15E-04	7.16E-04	1.77E-02	5.93E-02
5542	484738.38, 3857940.21	1.73E-02	4.18E-04	7.85E-04	7.51E-03	2.67E-04	8.35E-03	7.32E-07	0.03461804	9.01E-03	4.18E-04	7.85E-04	7.51E-03	2.67E-04	5.44E-04	8.35E-03	2.69E-02
5543	484737.06, 3857535.68	2.41E-02	4.98E-04	7.82E-04	9.68E-03	3.27E-04	1.50E-02	7.10E-07	0.05033312	1.25E-02	4.98E-04	7.82E-04	9.68E-03	3.27E-04	7.01E-04	1.50E-02	3.94E-02
5544	483730.2, 3857530.13	1.57E-02	3.64E-04	7.54E-04	6.45E-03	2.35E-04	8.03E-03	5.36E-07	0.03151231	8.14E-03	3.64E-04	7.54E-04	6.45E-03	2.35E-04	4.90E-04	8.03E-03	2.45E-02
5545	483727.27, 3857130.01	3.03E-02	4.13E-04	7.77E-04	7.83E-03	2.75E-04	1.48E-02	5.18E-07	0.05431381	1.53E-02	4.13E-04	7.77E-04	7.83E-03	2.75E-04	5.78E-04	1.48E-02	4.00E-02
5546	483124.42, 3857123.45	1.78E-02	3.55E-04	7.61E-04	6.17E-03	2.23E-04	7.52E-03	4.54E-07	0.03279087	9.14E-03	3.55E-04	7.61E-04	6.17E-03	2.23E-04	4.44E-04	7.52E-03	2.46E-02
5547	483111.13, 3855921.03	7.71E-02	5.47E-04	9.95E-04	1.05E-02	3.27E-04	1.54E-02	3.54E-07	0.10493847	3.84E-02	5.47E-04	9.95E-04	1.05E-02	3.27E-04	6.00E-04	1.54E-02	6.68E-02
5548	482701.73, 3855918.24	2.91E-02	4.62E-04	9.87E-04	8.25E-03	2.69E-04	8.05E-03	3.32E-07	0.04707931	1.48E-02	4.62E-04	9.87E-04	8.25E-03	2.69E-04	4.70E-04	8.05E-03	3.33E-02
5549	482668.02, 3853521.78	5.59E-02	4.39E-03	9.94E-03	5.43E-03	2.90E-04	1.05E-03	2.06E-07	0.07697647	3.29E-02	4.39E-03	9.94E-03	5.43E-03	2.90E-04	1.76E-04	1.05E-03	5.42E-02
5550	482579.91, 3853219.19	4.90E-02	5.67E-03	1.99E-02	3.07E-03	1.54E-04	9.26E-04	1.94E-07	0.07875728	3.08E-02	5.67E-03	1.99E-02	3.07E-03	1.54E-04	1.68E-04	9.26E-04	6.07E-02
5551	482434.06, 3852961.94	4.98E-02	8.05E-03	2.73E-02	2.40E-03	1.24E-04	8.29E-04	1.84E-07	0.08853412	3.40E-02	8.05E-03	2.73E-02	2.40E-03	1.24E-04	1.61E-04	8.29E-04	7.28E-02
5552	482332.11, 3852832.85	5.19E-02	1.05E-02	3.15E-02	2.19E-03	1.13E-04	7.85E-04	1.80E-07	0.0969915	3.79E-02	1.05E-02	3.15E-02	2.19E-03	1.13E-04	1.54E-04	7.85E-04	8.31E-02

5553	481334.99, 3851818.96	4.25E-02	8.61E-03	3.16E-02	1.31E-03	6.63E-05	5.67E-04	1.43E-07	0.0845879	3.11E-02	8.61E-03	3.16E-02	1.31E-03	6.63E-05	1.02E-04	5.67E-04	7.33E-02
5554	481127.62, 3851646.36	4.21E-02	7.36E-03	3.33E-02	1.23E-03	6.13E-05	5.44E-04	1.37E-07	0.08457305	2.95E-02	7.36E-03	3.33E-02	1.23E-03	6.13E-05	9.45E-05	5.44E-04	7.20E-02
5555	481025.04, 3851591.73	3.92E-02	6.69E-03	3.11E-02	1.21E-03	5.93E-05	5.35E-04	1.35E-07	0.07879458	2.73E-02	6.69E-03	3.11E-02	1.21E-03	5.93E-05	9.03E-05	5.35E-04	6.69E-02
5556	480513.6, 3851335.76	4.06E-02	6.93E-03	3.12E-02	1.12E-03	4.98E-05	4.87E-04	1.22E-07	0.08034629	2.81E-02	6.93E-03	3.12E-02	1.12E-03	4.98E-05	7.11E-05	4.87E-04	6.79E-02
5557	480523.56, 3851317.66	5.28E-02	9.38E-03	3.66E-02	1.11E-03	5.00E-05	4.85E-04	1.22E-07	0.10042774	3.70E-02	9.38E-03	3.66E-02	1.11E-03	5.00E-05	7.20E-05	4.85E-04	8.47E-02
5558	476921.56, 3849569.11	4.08E-02	8.21E-03	3.87E-02	3.91E-04	2.24E-05	2.86E-04	8.15E-08	0.08846042	2.98E-02	8.21E-03	3.87E-02	3.91E-04	2.24E-05	3.58E-05	2.86E-04	7.75E-02
5559	476521.19, 3849373.96	4.80E-02	9.85E-03	5.16E-02	3.71E-04	2.08E-05	2.52E-04	7.74E-08	0.11010296	3.54E-02	9.85E-03	5.16E-02	3.71E-04	2.08E-05	3.41E-05	2.52E-04	9.75E-02
5560	476391.45, 3849333.38	4.96E-02	1.05E-02	5.28E-02	3.70E-04	2.06E-05	2.44E-04	7.68E-08	0.11363894	3.70E-02	1.05E-02	5.28E-02	3.70E-04	2.06E-05	3.38E-05	2.44E-04	1.01E-01
5561	476219.41, 3849304.29	4.45E-02	9.22E-03	5.05E-02	3.71E-04	2.04E-05	2.33E-04	7.61E-08	0.10479641	3.28E-02	9.22E-03	5.05E-02	3.71E-04	2.04E-05	3.36E-05	2.33E-04	9.32E-02
5562	475679.11, 3849218.47	4.00E-02	7.47E-03	4.44E-02	3.63E-04	1.95E-05	2.06E-04	7.29E-08	0.0924728	2.85E-02	7.47E-03	4.44E-02	3.63E-04	1.95E-05	3.27E-05	2.06E-04	8.11E-02
5563	475677.71, 3849233.88	3.19E-02	5.98E-03	3.67E-02	3.66E-04	1.96E-05	2.07E-04	7.33E-08	0.07513972	2.28E-02	5.98E-03	3.67E-02	3.66E-04	1.96E-05	3.29E-05	2.07E-04	6.61E-02
5564	475492.74, 3849204.66	2.45E-02	4.18E-03	2.33E-02	3.23E-04	1.78E-05	1.78E-04	6.62E-08	0.0525352	1.70E-02	4.18E-03	2.33E-02	3.23E-04	1.78E-05	3.07E-05	1.78E-04	4.51E-02
5565	475497.64, 3849158.75	6.15E-02	9.83E-03	5.69E-02	3.35E-04	1.82E-05	1.86E-04	6.82E-08	0.12882438	4.19E-02	9.83E-03	5.69E-02	3.35E-04	1.82E-05	3.12E-05	1.86E-04	1.09E-01
5566	475391.35, 3849141.94	3.85E-02	7.50E-03	3.89E-02	3.48E-04	1.86E-05	1.93E-04	6.98E-08	0.08539777	2.78E-02	7.50E-03	3.89E-02	3.48E-04	1.86E-05	3.18E-05	1.93E-04	7.48E-02
5567	475277, 3849095.47	3.66E-02	7.23E-03	3.35E-02	3.48E-04	1.86E-05	1.94E-04	6.98E-08	0.07791073	2.66E-02	7.23E-03	3.35E-02	3.48E-04	1.86E-05	3.17E-05	1.94E-04	6.80E-02
5568	475183.93, 3849025.66	4.48E-02	9.45E-03	3.86E-02	3.41E-04	1.82E-05	1.91E-04	6.87E-08	0.09342523	3.33E-02	9.45E-03	3.86E-02	3.41E-04	1.82E-05	3.11E-05	1.91E-04	8.19E-02
5569	474453.23, 3848378.77	4.62E-02	1.35E-02	4.40E-02	2.95E-04	1.57E-05	1.70E-04	6.29E-08	0.10420022	3.89E-02	1.35E-02	4.40E-02	2.95E-04	1.57E-05	2.68E-05	1.70E-04	9.69E-02
5570	474569.63, 3848399.34	8.23E-02	2.91E-02	8.41E-02	2.91E-04	1.56E-05	1.67E-04	6.25E-08	0.19592237	7.53E-02	2.91E-02	8.41E-02	2.91E-04	1.56E-05	2.67E-05	1.67E-04	1.89E-01
5571	474644.33, 3848464.52	8.47E-02	2.95E-02	7.77E-02	2.96E-04	1.59E-05	1.70E-04	6.32E-08	0.1922792	7.70E-02	2.95E-02	7.77E-02	2.96E-04	1.59E-05	2.72E-05	1.70E-04	1.85E-01
5572	474719.04, 3848529.7	8.72E-02	3.01E-02	1.01E-01	3.01E-04	1.61E-05	1.72E-04	6.39E-08	0.21891745	7.89E-02	3.01E-02	1.01E-01	3.01E-04	1.61E-05	2.76E-05	1.72E-04	2.11E-01
5573	474793.74, 3848594.88	8.93E-02	3.06E-02	8.65E-02	3.03E-04	1.63E-05	1.73E-04	6.42E-08	0.2069037	8.06E-02	3.06E-02	8.65E-02	3.03E-04	1.63E-05	2.78E-05	1.73E-04	1.98E-01
5574	474868.45, 3848660.07	9.09E-02	3.08E-02	1.00E-01	3.03E-04	1.63E-05	1.72E-04	6.40E-08	0.2222094	8.16E-02	3.08E-02	1.00E-01	3.03E-04	1.63E-05	2.80E-05	1.72E-04	2.13E-01
5575	474943.15, 3848725.25	9.34E-02	3.13E-02	9.98E-02	3.06E-04	1.65E-05	1.73E-04	6.43E-08	0.22498851	8.35E-02	3.13E-02	9.98E-02	3.06E-04	1.65E-05	2.83E-05	1.73E-04	2.15E-01
5576	475017.86, 3848790.43	9.72E-02	3.24E-02	1.01E-01	3.12E-04	1.68E-05	1.76E-04	6.52E-08	0.23064457	8.66E-02	3.24E-02	1.01E-01	3.12E-04	1.68E-05	2.88E-05	1.76E-04	2.20E-01
5577	475092.56, 3848855.61	1.00E-01	3.30E-02	1.01E-01	3.20E-04	1.72E-05	1.80E-04	6.62E-08	0.23443003	8.90E-02	3.30E-02	1.01E-01	3.20E-04	1.72E-05	2.94E-05	1.80E-04	2.23E-01
5578	475232.58, 3848959.38	9.41E-02	2.79E-02	9.69E-02	3.30E-04	1.77E-05	1.85E-04	6.78E-08	0.21933927	7.96E-02	2.79E-02	9.69E-02	3.30E-04	1.77E-05	3.03E-05	1.85E-04	2.05E-01
5579	475368.47, 3849029.98	9.98E-02	2.90E-02	9.91E-02	3.33E-04	1.80E-05	1.87E-04	6.83E-08	0.22836325	8.36E-02	2.90E-02	9.91E-02	3.33E-04	1.80E-05	3.07E-05	1.87E-04	2.12E-01
5580	475609.57, 3849096.09	9.02E-02	2.41E-02	8.34E-02	3.32E-04	1.81E-05	1.88E-04	6.86E-08	0.19826579	7.31E-02	2.41E-02	8.34E-02	3.32E-04	1.81E-05	3.09E-05	1.88E-04	1.81E-01
5581	475680.68, 3849116.62	9.71E-02	2.77E-02	9.24E-02	3.40E-04	1.85E-05	1.95E-04	7.00E-08	0.21777215	8.08E-02	2.77E-02	9.24E-02	3.40E-04	1.85E-05	3.14E-05	1.95E-04	2.01E-01
5582	475843.76, 3849151.52	1.11E-01	3.42E-02	1.11E-01	3.48E-04	1.89E-05	2.04E-04	7.17E-08	0.25677428	9.56E-02	3.42E-02	1.11E-01	3.48E-04	1.89E-05	3.19E-05	2.04E-04	2.41E-01
5583	475935.73, 3849165.89	1.04E-01	3.14E-02	1.06E-01	3.55E-04	1.93E-05	2.14E-04	7.31E-08	0.24236611	8.89E-02	3.14E-02	1.06E-01	3.55E-04	1.93E-05	3.23E-05	2.14E-04	2.27E-01
5584	476027.7, 3849180.26	1.05E-01	3.14E-02	1.07E-01	3.59E-04	1.97E-05	2.22E-04	7.43E-08	0.24416122	8.91E-02	3.14E-02	1.07E-01	3.59E-04	1.97E-05	3.26E-05	2.22E-04	2.28E-01
5585	476119.68, 3849194.64	1.10E-01	3.28E-02	1.21E-01	3.52E-04	1.94E-05	2.21E-04	7.35E-08	0.26457074	9.34E-02	3.28E-02	1.21E-01	3.52E-04	1.94E-05	3.25E-05	2.21E-04	2.48E-01
5586	476211.65, 3849209.01	1.10E-01	3.24E-02	1.26E-01	3.50E-04	1.95E-05	2.25E-04	7.37E-08	0.26915096	9.30E-02	3.24E-02	1.26E-01	3.50E-04	1.95E-05	3.25E-05	2.25E-04	2.52E-01
5587	476497.8, 3849283.9	1.35E-01	4.24E-02	1.17E-01	3.52E-04	1.99E-05	2.44E-04	7.52E-08	0.29508454	1.17E-01	4.24E-02	1.17E-01	3.52E-04	1.99E-05	3.31E-05	2.44E-04	2.77E-01
5588	476603.73, 3849323.77	1.36E-01	4.22E-02	1.25E-01	3.56E-04	2.02E-05	2.53E-04	7.63E-08	0.30360761	1.17E-01	4.22E-02	1.25E-01	3.56E-04	2.02E-05	3.34E-05	2.53E-04	2.85E-01
5589	476728.99, 3849382.76	1.30E-01	3.89E-02	9.76E-02	3.62E-04	2.06E-05	2.63E-04	7.74E-08	0.26705352	1.10E-01	3.89E-02	9.76E-02	3.62E-04	2.06E-05	3.39E-05	2.63E-04	2.47E-01
5590	476801.27, 3849418.65	1.31E-01	3.88E-02	1.02E-01	3.66E-04	2.09E-05	2.70E-04	7.82E-08	0.2732095	1.11E-01	3.88E-02	1.02E-01	3.66E-04	2.09E-05	3.42E-05	2.70E-04	2.53E-01
5591	476956.2, 3849495.05	1.34E-01	3.87E-02	1.11E-01	3.75E-04	2.15E-05	2.84E-04	7.98E-08	0.28436496	1.12E-01	3.87E-02	1.11E-01	3.75E-04	2.15E-05	3.49E-05	2.84E-04	2.63E-01
5592	477038.84, 3849535.56	1.36E-01	3.92E-02	1.04E-01	3.77E-04	2.17E-05	2.88E-04	8.03E-08	0.28068568	1.14E-01	3.92E-02	1.04E-01	3.77E-04	2.17E-05	3.51E-05	2.88E-04	2.58E-01
5593	477121.48, 3849576.08	1.37E-01	3.90E-02	1.02E-01	3.82E-04	2.20E-05	2.95E-04	8.11E-08	0.27929949	1.14E-01	3.90E-02	1.02E-01	3.82E-04	2.20E-05	3.55E-05	2.95E-04	2.56E-01
5594	477204.13, 3849616.6	1.39E-01	3.92E-02	9.98E-02	3.86E-04	2.21E-05	2.99E-04	8.15E-08	0.27871461	1.15E-01	3.92E-02	9.98E-02	3.86E-04	2.21E-05	3.58E-05	2.99E-04	2.55E-01
5595	477286.78, 3849657.12	1.35E-01	3.68E-02	9.32E-02	3.83E-04	2.19E-05	2.96E-04	8.11E-08	0.26586515	1.11E-01	3.68E-02	9.32E-02	3.83E-04	2.19E-05	3.59E-05	2.96E-04	2.41E-01
5596	477369.42, 3849697.63	1.41E-01	3.91E-02	9.05E-02	3.97E-04	2.27E-05	3.12E-04	8.29E-08	0.27131984	1.16E-01	3.91E-02	9.05E-02	3.97E-04	2.27E-05	3.64E-05	3.12E-04	2.47E-01
5597	477452.07, 3849738.15	1.42E-01	3.90E-02	9.22E-02	4.01E-04	2.28E-05	3.16E-04	8.34E-08	0.2738966	1.17E-01	3.90E-02	9.22E-02	4.01E-04	2.28E-05	3.66E-05	3.16E-04	2.49E-01
5598	477534.71, 3849778.67	1.45E-01	4.02E-02	8.83E-02	4.13E-04	2.34E-05	3.29E-04	8.47E-08	0.27458203	1.20E-01	4.02E-02	8.83E-02	4.13E-04	2.34E-05	3.71E-05	3.29E-04	2.49E-01
5599	477617.35, 3849819.18	1.46E-01	4.00E-02	8.78E-02	4.20E-04	2.37E-05	3.33E-04	8.52E-08	0.27473927	1.20E-01	4.00E-02	8.78E-02	4.20E-04	2.37E-05	3.73E-05	3.33E-04	2.49E-01
5600	477824.74, 3849896.37	1.20E-01	2.63E-02	1.11E-01	4.43E-04	2.43E-05	3.47E-04	8.69E-08	0.25721294	9.04E-02	2.63E-02	1.11E-01	4.43E-04	2.43E-05	3.78E-05	3.47E-04	2.28E-01
5601	477906.31, 3849936.37	1.23E-01	2.70E-02	1.18E-01	4.43E-04	2.39E-05	3.40E-04	8.63E-08	0.2693376	9.31E-02	2.70E-02	1.18E-01	4.43E-04	2.39E-05	3.78E-05	3.40E-04	2.39E-01
5602	477987.89, 3849976.36	1.23E-01	2.71E-02	1.15E-01	4.58E-04	2.45E-05	3.48E-04	8.72E-08	0.26614487	9.32E-02	2.71E-02	1.15E-01	4.58E-04	2.45E-05	3.82E-05	3.48E-04	2.36E-01
5603	478069.47, 3850016.36	1.24E-01	2.73E-02	1.20E-01	4.62E-04	2.43E-05	3.44E-04	8.71E-08	0.27187253	9.40E-02	2.73E-02	1.20E-01	4.62E-04	2.43E-05	3.83E-05	3.44E-04	2.42E-01
5604	478151.04, 3850056.35	1.25E-01	2.74E-02	1.07E-01	4.68E-04	2.42E-05	3.40E-04	8.69E-08	0.25975467	9.44E-02	2.74E-02	1.07E-01	4.68E-04	2.42E-05	3.84E-05	3.40E-04	2.30E-01
5605	478232.62, 3850096.35	1.25E-01	2.77E-02	1.07E-01	4.83E-04	2.46E-05	3.44E-04	8.76E-08	0.26105855	9.50E-02	2.77E-02	1.07E-01	4.83E-04	2.46E-05	3.87E-05	3.44E-04	2.31E-01
5606	478314.2, 3850136.34	1.25E-01	2.77E-02	1.07E-01	5.00E-04	2.50E-05	3.48E-04	8.85E-08	0.26096833	9.52E-02	2.77E-02	1.07E-01	5.00E-04	2.50E-05	3.90E-05	3.48E-04	2.31E-01

5607	478395.77, 3850176.34	1.26E-01	2.78E-02	1.06E-01	5.18E-04	2.54E-05	3.53E-04	8.93E-08	0.26070754	9.54E-02	2.78E-02	1.06E-01	5.18E-04	2.54E-05	3.94E-05	3.53E-04	2.31E-01
5608	478575.43, 3850244.45	1.12E-01	2.13E-02	9.76E-02	5.66E-04	2.65E-05	3.60E-04	9.08E-08	0.23167722	8.07E-02	2.13E-02	9.76E-02	5.66E-04	2.65E-05	4.00E-05	3.60E-04	2.01E-01
5609	478665.06, 3850287.29	1.13E-01	2.10E-02	9.69E-02	5.92E-04	2.72E-05	3.65E-04	9.19E-08	0.23164299	8.08E-02	2.10E-02	9.69E-02	5.92E-04	2.72E-05	4.04E-05	3.65E-04	2.00E-01
5610	478754.69, 3850330.14	1.13E-01	2.08E-02	9.60E-02	6.19E-04	2.80E-05	3.70E-04	9.30E-08	0.23060975	8.06E-02	2.08E-02	9.60E-02	6.19E-04	2.80E-05	4.11E-05	3.70E-04	1.98E-01
5611	478844.32, 3850372.99	1.13E-01	2.03E-02	9.38E-02	6.48E-04	2.88E-05	3.76E-04	9.43E-08	0.22800978	8.01E-02	2.03E-02	9.38E-02	6.48E-04	2.88E-05	4.18E-05	3.76E-04	1.95E-01
5612	478933.95, 3850415.84	1.13E-01	1.99E-02	9.06E-02	6.79E-04	2.98E-05	3.85E-04	9.58E-08	0.22483743	7.97E-02	1.99E-02	9.06E-02	6.79E-04	2.98E-05	4.35E-05	3.85E-04	1.91E-01
5613	479023.58, 3850458.68	1.18E-01	2.01E-02	9.39E-02	7.03E-04	3.04E-05	3.85E-04	9.64E-08	0.23326527	8.23E-02	2.01E-02	9.39E-02	7.03E-04	3.04E-05	4.34E-05	3.85E-04	1.98E-01
5614	479110.66, 3850441.9	8.56E-02	1.15E-02	5.95E-02	7.41E-04	3.13E-05	3.86E-04	9.70E-08	0.157647	5.57E-02	1.15E-02	5.95E-02	7.41E-04	3.13E-05	4.49E-05	3.86E-04	1.28E-01
5615	479191.22, 3850423.99	7.56E-02	8.07E-03	4.53E-02	7.68E-04	3.21E-05	3.83E-04	9.72E-08	0.13019977	4.67E-02	8.07E-03	4.53E-02	7.68E-04	3.21E-05	4.59E-05	3.83E-04	1.01E-01
5616	479274.32, 3850465.71	9.08E-02	8.16E-03	4.60E-02	7.89E-04	3.29E-05	3.86E-04	9.81E-08	0.14618876	5.42E-02	8.16E-03	4.60E-02	7.89E-04	3.29E-05	4.70E-05	3.86E-04	1.10E-01
5617	479357.43, 3850507.42	9.72E-02	8.23E-03	4.70E-02	8.06E-04	3.37E-05	3.85E-04	9.86E-08	0.1536079	5.74E-02	8.23E-03	4.70E-02	8.06E-04	3.37E-05	4.83E-05	3.85E-04	1.14E-01
5618	479440.53, 3850549.14	1.00E-01	8.21E-03	4.72E-02	8.21E-04	3.43E-05	3.81E-04	9.90E-08	0.15679987	5.88E-02	8.21E-03	4.72E-02	8.21E-04	3.43E-05	4.84E-05	3.81E-04	1.16E-01
5619	479523.64, 3850590.85	1.02E-01	8.22E-03	4.73E-02	8.36E-04	3.52E-05	3.80E-04	9.98E-08	0.15851273	5.96E-02	8.22E-03	4.73E-02	8.36E-04	3.52E-05	4.96E-05	3.80E-04	1.16E-01
5620	479606.74, 3850632.57	1.03E-01	8.29E-03	4.77E-02	8.53E-04	3.62E-05	3.83E-04	1.01E-07	0.16005369	6.02E-02	8.29E-03	4.77E-02	8.53E-04	3.62E-05	5.12E-05	3.83E-04	1.18E-01
5621	479777.37, 3850707.61	9.65E-02	7.89E-03	4.59E-02	8.80E-04	3.83E-05	3.85E-04	1.03E-07	0.15159282	5.66E-02	7.89E-03	4.59E-02	8.80E-04	3.83E-05	5.51E-05	3.85E-04	1.12E-01
5622	479864.9, 3850740.95	8.74E-02	7.55E-03	4.44E-02	8.93E-04	3.96E-05	3.90E-04	1.04E-07	0.14060074	5.18E-02	7.55E-03	4.44E-02	8.93E-04	3.96E-05	5.77E-05	3.90E-04	1.05E-01
5623	479931.87, 3850829.56	9.36E-02	1.04E-02	5.79E-02	9.21E-04	4.06E-05	4.01E-04	1.06E-07	0.16332868	5.84E-02	1.04E-02	5.79E-02	9.21E-04	4.06E-05	5.85E-05	4.01E-04	1.28E-01
5624	479995.55, 3850926.75	1.11E-01	1.87E-02	9.25E-02	9.58E-04	4.16E-05	4.21E-04	1.09E-07	0.22318178	7.70E-02	1.87E-02	9.25E-02	9.58E-04	4.16E-05	5.96E-05	4.21E-04	1.90E-01
5625	480079.78, 3850968.64	1.09E-01	1.87E-02	9.23E-02	9.77E-04	4.29E-05	4.30E-04	1.11E-07	0.22131839	7.60E-02	1.87E-02	9.23E-02	9.77E-04	4.29E-05	6.18E-05	4.30E-04	1.89E-01
5626	480164.01, 3851010.54	1.08E-01	1.87E-02	9.19E-02	9.94E-04	4.43E-05	4.39E-04	1.13E-07	0.2202981	7.57E-02	1.87E-02	9.19E-02	9.94E-04	4.43E-05	6.41E-05	4.39E-04	1.88E-01
5627	480248.23, 3851052.43	1.07E-01	1.86E-02	9.10E-02	1.01E-03	4.55E-05	4.47E-04	1.15E-07	0.21855832	7.52E-02	1.86E-02	9.10E-02	1.01E-03	4.55E-05	6.65E-05	4.47E-04	1.86E-01
5628	480332.46, 3851094.33	1.08E-01	1.89E-02	9.20E-02	1.02E-03	4.69E-05	4.54E-04	1.17E-07	0.22017167	7.55E-02	1.89E-02	9.20E-02	1.02E-03	4.69E-05	6.90E-05	4.54E-04	1.88E-01
5629	480416.69, 3851136.22	1.09E-01	1.92E-02	9.68E-02	1.03E-03	4.82E-05	4.57E-04	1.18E-07	0.22633963	7.65E-02	1.92E-02	9.68E-02	1.03E-03	4.82E-05	7.17E-05	4.57E-04	1.94E-01
5630	480579.95, 3851215.17	1.08E-01	1.90E-02	9.88E-02	1.05E-03	5.08E-05	4.68E-04	1.22E-07	0.22747021	7.58E-02	1.90E-02	9.88E-02	1.05E-03	5.08E-05	7.72E-05	4.68E-04	1.95E-01
5631	480658.98, 3851252.22	1.07E-01	1.86E-02	9.78E-02	1.06E-03	5.21E-05	4.75E-04	1.23E-07	0.22540648	7.49E-02	1.86E-02	9.78E-02	1.06E-03	5.21E-05	8.00E-05	4.75E-04	1.93E-01
5632	480817.36, 3851327.85	1.08E-01	1.82E-02	9.67E-02	1.08E-03	5.47E-05	4.90E-04	1.28E-07	0.22434855	7.45E-02	1.82E-02	9.67E-02	1.08E-03	5.47E-05	8.57E-05	4.90E-04	1.91E-01
5633	480896.71, 3851366.42	1.08E-01	1.81E-02	9.72E-02	1.09E-03	5.59E-05	4.96E-04	1.30E-07	0.2246568	7.43E-02	1.81E-02	9.72E-02	1.09E-03	5.59E-05	8.86E-05	4.96E-04	1.91E-01
5634	480976.07, 3851405	1.07E-01	1.80E-02	9.70E-02	1.09E-03	5.72E-05	5.01E-04	1.32E-07	0.22402078	7.39E-02	1.80E-02	9.70E-02	1.09E-03	5.72E-05	9.15E-05	5.01E-04	1.91E-01
5635	481178, 3851487.31	9.21E-02	1.45E-02	7.29E-02	1.11E-03	6.02E-05	5.09E-04	1.38E-07	0.18116241	6.23E-02	1.45E-02	7.29E-02	1.11E-03	6.02E-05	9.83E-05	5.09E-04	1.51E-01
5636	481244.9, 3851557.17	9.83E-02	1.79E-02	8.07E-02	1.14E-03	6.18E-05	5.19E-04	1.40E-07	0.19868439	6.96E-02	1.79E-02	8.07E-02	1.14E-03	6.18E-05	1.01E-04	5.19E-04	1.70E-01
5637	481311.81, 3851627.03	1.00E-01	2.05E-02	8.94E-02	1.18E-03	6.34E-05	5.27E-04	1.42E-07	0.21169212	7.37E-02	2.05E-02	8.94E-02	1.18E-03	6.34E-05	1.03E-04	5.27E-04	1.85E-01
5638	481378.71, 3851696.89	9.46E-02	1.97E-02	9.11E-02	1.21E-03	6.53E-05	5.35E-04	1.44E-07	0.20723451	7.01E-02	1.97E-02	9.11E-02	1.21E-03	6.53E-05	1.06E-04	5.35E-04	1.83E-01
5639	481445.61, 3851766.76	9.12E-02	1.95E-02	9.53E-02	1.24E-03	6.71E-05	5.44E-04	1.46E-07	0.20785038	6.82E-02	1.95E-02	9.53E-02	1.24E-03	6.71E-05	1.08E-04	5.44E-04	1.85E-01
5640	481512.51, 3851836.62	9.00E-02	1.95E-02	9.57E-02	1.28E-03	6.91E-05	5.52E-04	1.47E-07	0.20715962	6.76E-02	1.95E-02	9.57E-02	1.28E-03	6.91E-05	1.11E-04	5.52E-04	1.85E-01
5641	481579.42, 3851906.48	8.97E-02	1.94E-02	9.47E-02	1.32E-03	7.13E-05	5.61E-04	1.49E-07	0.20568641	6.72E-02	1.94E-02	9.47E-02	1.32E-03	7.13E-05	1.14E-04	5.61E-04	1.83E-01
5642	481646.32, 3851976.34	9.03E-02	1.95E-02	9.47E-02	1.36E-03	7.35E-05	5.71E-04	1.51E-07	0.20645737	6.77E-02	1.95E-02	9.47E-02	1.36E-03	7.35E-05	1.17E-04	5.71E-04	1.84E-01
5643	481713.22, 3852046.2	9.02E-02	1.94E-02	9.40E-02	1.40E-03	7.60E-05	5.77E-04	1.53E-07	0.20561504	6.75E-02	1.94E-02	9.40E-02	1.40E-03	7.60E-05	1.20E-04	5.77E-04	1.83E-01
5644	481780.12, 3852116.06	9.09E-02	1.95E-02	9.43E-02	1.44E-03	7.85E-05	5.90E-04	1.55E-07	0.20686172	6.81E-02	1.95E-02	9.43E-02	1.44E-03	7.85E-05	1.24E-04	5.90E-04	1.84E-01
5645	481847.03, 3852185.92	9.19E-02	1.98E-02	9.44E-02	1.50E-03	8.11E-05	6.07E-04	1.58E-07	0.20830913	6.89E-02	1.98E-02	9.44E-02	1.50E-03	8.11E-05	1.27E-04	6.07E-04	1.85E-01
5646	481913.93, 3852255.78	9.27E-02	2.00E-02	9.38E-02	1.56E-03	8.38E-05	6.25E-04	1.61E-07	0.20867211	6.94E-02	2.00E-02	9.38E-02	1.56E-03	8.38E-05	1.30E-04	6.25E-04	1.86E-01
5647	481980.83, 3852325.65	9.37E-02	2.02E-02	8.89E-02	1.62E-03	8.63E-05	6.46E-04	1.64E-07	0.20515348	7.02E-02	2.02E-02	8.89E-02	1.62E-03	8.63E-05	1.34E-04	6.46E-04	1.82E-01
5648	482047.73, 3852395.51	9.42E-02	2.03E-02	9.07E-02	1.67E-03	8.94E-05	6.64E-04	1.67E-07	0.20752434	7.05E-02	2.03E-02	9.07E-02	1.67E-03	8.94E-05	1.37E-04	6.64E-04	1.84E-01
5649	482114.64, 3852465.37	9.46E-02	2.03E-02	8.72E-02	1.73E-03	9.23E-05	6.86E-04	1.70E-07	0.20459249	7.07E-02	2.03E-02	8.72E-02	1.73E-03	9.23E-05	1.41E-04	6.86E-04	1.81E-01
5650	482181.54, 3852535.23	9.57E-02	2.06E-02	9.04E-02	1.80E-03	9.61E-05	7.03E-04	1.73E-07	0.20920498	7.16E-02	2.06E-02	9.04E-02	1.80E-03	9.61E-05	1.45E-04	7.03E-04	1.85E-01
5651	482338.69, 3852700.04	9.80E-02	2.10E-02	9.19E-02	1.96E-03	1.05E-04	7.54E-04	1.79E-07	0.21377455	7.33E-02	2.10E-02	9.19E-02	1.96E-03	1.05E-04	1.56E-04	7.54E-04	1.89E-01
5652	482404.05, 3852767.78	9.84E-02	2.09E-02	9.13E-02	2.05E-03	1.10E-04	7.77E-04	1.82E-07	0.21354958	7.33E-02	2.09E-02	9.13E-02	2.05E-03	1.10E-04	1.61E-04	7.77E-04	1.89E-01
5653	482469.4, 3852835.52	9.99E-02	2.10E-02	9.24E-02	2.14E-03	1.15E-04	8.01E-04	1.85E-07	0.21633255	7.42E-02	2.10E-02	9.24E-02	2.14E-03	1.15E-04	1.67E-04	8.01E-04	1.91E-01
5654	482534.75, 3852903.25	1.03E-01	2.10E-02	9.17E-02	2.25E-03	1.21E-04	8.23E-04	1.88E-07	0.2187161	7.56E-02	2.10E-02	9.17E-02	2.25E-03	1.21E-04	1.73E-04	8.23E-04	1.92E-01
5655	482600.11, 3852970.99	1.05E-01	2.05E-02	8.52E-02	2.37E-03	1.27E-04	8.48E-04	1.91E-07	0.21451849	7.63E-02	2.05E-02	8.52E-02	2.37E-03	1.27E-04	1.79E-04	8.48E-04	1.86E-01
5656	482706.71, 3853119.28	9.91E-02	1.67E-02	7.96E-02	2.74E-03	1.46E-04	8.96E-04	1.95E-07	0.19913146	6.84E-02	1.67E-02	7.96E-02	2.74E-03	1.46E-04	1.90E-04	8.96E-04	1.69E-01
5657	482747.96, 3853199.84	1.01E-01	1.69E-02	8.06E-02	2.99E-03	1.59E-04	9.28E-04	1.98E-07	0.20248982	6.96E-02	1.69E-02	8.06E-02	2.99E-03	1.59E-04	1.94E-04	9.28E-04	1.71E-01
5658	482789.21, 3853280.4	1.01E-01	1.61E-02	7.45E-02	3.32E-03	1.75E-04	9.63E-04	2.01E-07	0.19637584	6.87E-02	1.61E-02	7.45E-02	3.32E-03	1.75E-04	1.97E-04	9.63E-04	1.64E-01
5659	482830.46, 3853360.96	9.91E-02	1.40E-02	6.72E-02	3.79E-03	1.98E-04	9.96E-04	2.04E-07	0.18531051	6.46E-02	1.40E-02	6.72E-02	3.79E-03	1.98E-04	2.01E-04	9.96E-04	1.51E-01
5660	482871.71, 3853441.52	9.86E-02	1.23E-02	5.61E-02	5.91E-03	2.36E-04	1.03E-03	2.07E-07	0.17425924	6.20E-02	1.23E-02	5.61E-02	5.91E-03	2.36E-04	2.05E-04	1.03E-03	1.38E-01

5661	482912.95, 3853522.07	9.98E-02	1.12E-02	1.56E-02	1.13E-02	3.75E-04	1.06E-03	2.09E-07	0.13929454	6.08E-02	1.12E-02	1.56E-02	1.13E-02	3.75E-04	2.10E-04	1.06E-03	1.01E-01
5662	482954.2, 3853602.63	1.01E-01	1.00E-02	8.03E-03	1.13E-02	1.15E-03	1.08E-03	2.12E-07	0.13217147	5.90E-02	1.00E-02	8.03E-03	1.13E-02	1.15E-03	2.15E-04	1.08E-03	9.08E-02
5663	482995.45, 3853683.19	1.03E-01	9.10E-03	5.78E-03	1.18E-02	1.43E-03	1.11E-03	2.15E-07	0.13200276	5.84E-02	9.10E-03	5.78E-03	1.18E-02	1.43E-03	2.22E-04	1.11E-03	8.79E-02
5664	483036.7, 3853763.75	1.06E-01	8.41E-03	4.62E-03	1.38E-02	1.45E-03	1.13E-03	2.18E-07	0.1358208	5.90E-02	8.41E-03	4.62E-03	1.38E-02	1.45E-03	2.30E-04	1.13E-03	8.86E-02
5665	483214.2, 3853909.91	1.17E-01	4.71E-03	3.35E-03	1.48E-02	9.81E-04	1.12E-03	2.22E-07	0.14221044	6.11E-02	4.71E-03	3.35E-03	1.48E-02	9.81E-04	2.71E-04	1.12E-03	8.63E-02
5666	483307.01, 3853910.44	1.09E-01	3.75E-03	3.40E-03	1.33E-02	8.50E-04	1.14E-03	2.24E-07	0.13163699	5.65E-02	3.75E-03	3.40E-03	1.33E-02	8.50E-04	2.92E-04	1.14E-03	7.93E-02
5667	483399.83, 3853910.96	1.01E-01	3.12E-03	3.38E-03	1.20E-02	7.49E-04	1.14E-03	2.27E-07	0.12159676	5.21E-02	3.12E-03	3.38E-03	1.20E-02	7.49E-04	3.18E-04	1.14E-03	7.29E-02
5668	483494.52, 3854009.24	1.14E-01	3.20E-03	2.97E-03	1.39E-02	7.54E-04	1.21E-03	2.33E-07	0.13628686	5.82E-02	3.20E-03	2.97E-03	1.39E-02	7.54E-04	3.46E-04	1.21E-03	8.05E-02
5669	483496.41, 3854106.98	1.22E-01	4.23E-03	2.66E-03	1.72E-02	8.36E-04	1.28E-03	2.38E-07	0.14778615	6.18E-02	4.23E-03	2.66E-03	1.72E-02	8.36E-04	3.50E-04	1.28E-03	8.83E-02
5670	483577.56, 3854261.96	1.30E-01	6.78E-03	2.22E-03	2.01E-02	9.32E-04	1.34E-03	2.43E-07	0.16095516	6.55E-02	6.78E-03	2.22E-03	2.01E-02	9.32E-04	3.90E-04	1.34E-03	9.72E-02
5671	483656.83, 3854319.19	1.33E-01	7.07E-03	2.06E-03	1.95E-02	9.38E-04	1.36E-03	2.45E-07	0.16362683	6.67E-02	7.07E-03	2.06E-03	1.95E-02	9.38E-04	4.16E-04	1.36E-03	9.81E-02
5672	483736.1, 3854376.41	1.35E-01	7.37E-03	1.92E-03	1.89E-02	9.65E-04	1.40E-03	2.44E-07	0.1660532	6.79E-02	7.37E-03	1.92E-03	1.89E-02	9.65E-04	4.45E-04	1.40E-03	9.89E-02
5673	483815.36, 3854433.64	1.39E-01	7.81E-03	1.79E-03	1.85E-02	1.01E-03	1.47E-03	2.43E-07	0.16953032	6.94E-02	7.81E-03	1.79E-03	1.85E-02	1.01E-03	4.74E-04	1.47E-03	1.00E-01
5674	483894.63, 3854490.87	1.43E-01	8.31E-03	1.67E-03	1.81E-02	1.09E-03	1.56E-03	2.42E-07	0.17404069	7.14E-02	8.31E-03	1.67E-03	1.81E-02	1.09E-03	4.97E-04	1.56E-03	1.03E-01
5675	483973.9, 3854548.09	1.49E-01	8.83E-03	1.56E-03	1.82E-02	1.20E-03	1.67E-03	2.40E-07	0.18000807	7.39E-02	8.83E-03	1.56E-03	1.82E-02	1.20E-03	5.14E-04	1.67E-03	1.06E-01
5676	484053.17, 3854605.32	1.54E-01	9.68E-03	1.48E-03	1.90E-02	1.44E-03	1.82E-03	2.40E-07	0.1874036	7.64E-02	9.68E-03	1.48E-03	1.90E-02	1.44E-03	5.41E-04	1.82E-03	1.10E-01
5677	484214.97, 3854698.15	1.56E-01	9.93E-03	1.39E-03	2.06E-02	2.49E-03	2.15E-03	2.45E-07	0.19209417	7.71E-02	9.93E-03	1.39E-03	2.06E-02	2.49E-03	6.19E-04	2.15E-03	1.14E-01
5678	484297.5, 3854733.74	1.55E-01	1.01E-02	1.40E-03	2.17E-02	3.24E-03	2.37E-03	2.51E-07	0.19386836	7.69E-02	1.01E-02	1.40E-03	2.17E-02	3.24E-03	7.00E-04	2.37E-03	1.16E-01
5679	484380.03, 3854769.34	1.58E-01	9.90E-03	1.37E-03	2.19E-02	3.91E-03	2.53E-03	2.55E-07	0.19754363	7.82E-02	9.90E-03	1.37E-03	2.19E-02	3.91E-03	7.52E-04	2.53E-03	1.19E-01
5680	484462.56, 3854804.94	1.60E-01	9.85E-03	1.37E-03	2.28E-02	5.06E-03	2.77E-03	2.61E-07	0.20164269	7.92E-02	9.85E-03	1.37E-03	2.28E-02	5.06E-03	8.47E-04	2.77E-03	1.22E-01
5681	484545.09, 3854840.53	1.62E-01	9.47E-03	1.35E-03	2.25E-02	6.11E-03	2.92E-03	2.65E-07	0.20425662	8.01E-02	9.47E-03	1.35E-03	2.25E-02	6.11E-03	9.08E-04	2.92E-03	1.23E-01
5682	484691.88, 3854912.58	1.62E-01	9.93E-03	1.35E-03	2.43E-02	7.52E-03	3.49E-03	2.85E-07	0.20860169	8.02E-02	9.93E-03	1.35E-03	2.43E-02	7.52E-03	1.19E-03	3.49E-03	1.28E-01
5683	484830.81, 3855012.51	1.59E-01	8.48E-03	1.32E-03	2.68E-02	7.01E-03	5.29E-03	3.08E-07	0.20808872	7.89E-02	8.48E-03	1.32E-03	2.68E-02	7.01E-03	2.51E-03	5.29E-03	1.30E-01
5684	484905.48, 3855075.97	1.58E-01	7.90E-03	1.31E-03	2.95E-02	7.03E-03	9.72E-03	3.26E-07	0.21387425	7.85E-02	7.90E-03	1.31E-03	2.95E-02	7.03E-03	6.24E-03	9.72E-03	1.40E-01
5685	484980.14, 3855139.44	1.58E-01	7.53E-03	1.29E-03	3.14E-02	6.99E-03	1.39E-02	3.41E-07	0.21913846	7.83E-02	7.53E-03	1.29E-03	3.14E-02	6.99E-03	9.84E-03	1.39E-02	1.49E-01
5686	485054.81, 3855202.91	1.57E-01	7.15E-03	1.26E-03	3.24E-02	6.90E-03	1.67E-02	3.53E-07	0.22138904	7.78E-02	7.15E-03	1.26E-03	3.24E-02	6.90E-03	1.22E-02	1.67E-02	1.54E-01
5687	485129.48, 3855266.37	1.57E-01	6.66E-03	1.22E-03	3.21E-02	6.68E-03	1.76E-02	3.59E-07	0.22165081	7.80E-02	6.66E-03	1.22E-03	3.21E-02	6.68E-03	1.29E-02	1.76E-02	1.55E-01
5688	485204.15, 3855329.84	1.57E-01	6.58E-03	1.20E-03	3.39E-02	6.81E-03	2.00E-02	3.77E-07	0.22555635	7.79E-02	6.58E-03	1.20E-03	3.39E-02	6.81E-03	1.48E-02	2.00E-02	1.61E-01
5689	485278.82, 3855393.31	1.56E-01	6.29E-03	1.18E-03	3.45E-02	6.77E-03	2.10E-02	3.89E-07	0.22610703	7.76E-02	6.29E-03	1.18E-03	3.45E-02	6.77E-03	1.55E-02	2.10E-02	1.63E-01
5690	485353.48, 3855456.77	1.56E-01	6.08E-03	1.16E-03	3.55E-02	6.79E-03	2.24E-02	4.05E-07	0.22821604	7.75E-02	6.08E-03	1.16E-03	3.55E-02	6.79E-03	1.66E-02	2.24E-02	1.66E-01
5691	485428.15, 3855520.24	1.55E-01	5.82E-03	1.13E-03	3.59E-02	6.73E-03	2.30E-02	4.18E-07	0.22746732	7.69E-02	5.82E-03	1.13E-03	3.59E-02	6.73E-03	1.69E-02	2.30E-02	1.66E-01
5692	485502.82, 3855583.71	1.56E-01	5.61E-03	1.11E-03	3.63E-02	6.70E-03	2.37E-02	4.33E-07	0.22961247	7.75E-02	5.61E-03	1.11E-03	3.63E-02	6.70E-03	1.74E-02	2.37E-02	1.68E-01
5693	485577.49, 3855647.17	1.54E-01	5.50E-03	1.10E-03	3.77E-02	6.78E-03	2.53E-02	4.54E-07	0.22990922	7.62E-02	5.50E-03	1.10E-03	3.77E-02	6.78E-03	1.85E-02	2.53E-02	1.71E-01
5694	485652.16, 3855710.64	1.54E-01	5.38E-03	1.08E-03	3.91E-02	6.82E-03	2.67E-02	4.76E-07	0.23332524	7.66E-02	5.38E-03	1.08E-03	3.91E-02	6.82E-03	1.95E-02	2.67E-02	1.75E-01
5695	485726.83, 3855774.1	1.52E-01	5.19E-03	1.06E-03	3.95E-02	6.80E-03	2.76E-02	4.93E-07	0.23246963	7.57E-02	5.19E-03	1.06E-03	3.95E-02	6.80E-03	2.00E-02	2.76E-02	1.76E-01
5696	485801.49, 3855837.57	1.53E-01	4.99E-03	1.04E-03	3.94E-02	6.73E-03	2.73E-02	5.08E-07	0.23243367	7.60E-02	4.99E-03	1.04E-03	3.94E-02	6.73E-03	1.96E-02	2.73E-02	1.75E-01
5697	485876.16, 3855901.04	1.52E-01	4.86E-03	1.03E-03	3.97E-02	6.74E-03	2.81E-02	5.26E-07	0.23226865	7.55E-02	4.86E-03	1.03E-03	3.97E-02	6.74E-03	2.00E-02	2.81E-02	1.76E-01
5698	485950.83, 3855964.5	1.52E-01	4.73E-03	1.01E-03	3.96E-02	6.69E-03	2.79E-02	5.43E-07	0.2322249	7.57E-02	4.73E-03	1.01E-03	3.96E-02	6.69E-03	1.96E-02	2.79E-02	1.75E-01
5699	486025.5, 3856027.97	1.52E-01	4.55E-03	9.93E-04	3.90E-02	6.60E-03	2.75E-02	5.56E-07	0.23042994	7.55E-02	4.55E-03	9.93E-04	3.90E-02	6.60E-03	1.91E-02	2.75E-02	1.73E-01
5700	486100.17, 3856091.44	1.51E-01	4.56E-03	9.86E-04	4.07E-02	6.74E-03	2.92E-02	5.89E-07	0.23322598	7.51E-02	4.56E-03	9.86E-04	4.07E-02	6.74E-03	2.02E-02	2.92E-02	1.78E-01
5701	486174.83, 3856154.9	1.51E-01	4.36E-03	9.69E-04	3.98E-02	6.61E-03	2.83E-02	6.01E-07	0.23082037	7.50E-02	4.36E-03	9.69E-04	3.98E-02	6.61E-03	1.94E-02	2.83E-02	1.74E-01
5702	486249.5, 3856218.37	1.52E-01	4.10E-03	9.45E-04	3.73E-02	6.29E-03	2.62E-02	5.99E-07	0.22722096	7.57E-02	4.10E-03	9.45E-04	3.73E-02	6.29E-03	1.77E-02	2.62E-02	1.68E-01
5703	486324.17, 3856281.84	1.53E-01	3.99E-03	9.22E-04	3.55E-02	6.22E-03	2.45E-02	6.00E-07	0.22442509	7.61E-02	3.99E-03	9.22E-04	3.55E-02	6.22E-03	1.62E-02	2.45E-02	1.63E-01
5704	486398.84, 3856345.3	1.52E-01	4.03E-03	9.16E-04	3.63E-02	6.45E-03	2.52E-02	6.29E-07	0.22518377	7.56E-02	4.03E-03	9.16E-04	3.63E-02	6.45E-03	1.66E-02	2.52E-02	1.65E-01
5705	486473.51, 3856408.77	1.52E-01	3.97E-03	9.07E-04	3.64E-02	6.51E-03	2.53E-02	6.53E-07	0.22467061	7.53E-02	3.97E-03	9.07E-04	3.64E-02	6.51E-03	1.66E-02	2.53E-02	1.65E-01
5706	486548.17, 3856472.24	1.50E-01	3.95E-03	9.03E-04	3.74E-02	6.62E-03	2.61E-02	6.89E-07	0.2252852	7.47E-02	3.95E-03	9.03E-04	3.74E-02	6.62E-03	1.71E-02	2.61E-02	1.67E-01
5707	486622.84, 3856535.7	1.51E-01	3.91E-03	9.01E-04	3.84E-02	6.67E-03	2.69E-02	7.29E-07	0.22742964	7.49E-02	3.91E-03	9.01E-04	3.84E-02	6.67E-03	1.76E-02	2.69E-02	1.69E-01
5708	486765.48, 3856659.69	1.47E-01	3.79E-03	9.03E-04	4.12E-02	6.72E-03	2.89E-02	8.24E-07	0.22886145	7.33E-02	3.79E-03	9.03E-04	4.12E-02	6.72E-03	1.90E-02	2.89E-02	1.74E-01
5709	486833.44, 3856720.2	1.51E-01	3.76E-03	9.04E-04	4.23E-02	6.78E-03	2.97E-02	8.71E-07	0.23396576	7.49E-02	3.76E-03	9.04E-04	4.23E-02	6.78E-03	1.96E-02	2.97E-02	1.78E-01
5710	486901.41, 3856780.72	1.51E-01	3.73E-03	9.08E-04	4.36E-02	6.78E-03	3.03E-02	9.28E-07	0.23594522	7.50E-02	3.73E-03	9.08E-04	4.36E-02	6.78E-03	1.99E-02	3.03E-02	1.80E-01
5711	486969.38, 3856841.24	1.51E-01	3.70E-03	9.12E-04	4.47E-02	6.76E-03	3.06E-02	9.86E-07	0.23806453	7.54E-02	3.70E-03	9.12E-04	4.47E-02	6.76E-03	2.00E-02	3.06E-02	1.82E-01
5712	487037.34, 3856901.75	1.54E-01	3.68E-03	9.17E-04	4.57E-02	6.70E-03	3.06E-02	1.05E-06	0.2416958	7.67E-02	3.68E-03	9.17E-04	4.57E-02	6.70E-03	1.99E-02	3.06E-02	1.84E-01
5713	487271.23, 3856855.51	1.23E-01	2.28E-03	9.18E-04	3.81E-02	3.64E-03	2.05E-02	1.12E-06	0.18855023	6.15E-02	2.28E-03	9.18E-04	3.81E-02	3.64E-03	1.13E-02	2.05E-02	1.38E-01
5714	487368.95, 3856857.29	1.22E-01	2.05E-03	9.15E-04	3.62E-02	3.18E-03	1.87E-02	1.12E-06	0.18259621	6.06E-02	2.05E-03	9.15E-04	3.62E-02	3.18E-03	9.84E-03	1.87E-02	1.32E-01

5715	487466.68, 3856859.06	1.17E-01	1.88E-03	9.15E-04	3.46E-02	2.82E-03	1.73E-02	1.13E-06	0.17424417	5.83E-02	1.88E-03	9.15E-04	3.46E-02	2.82E-03	8.65E-03	1.73E-02	1.24E-01
5716	487636.44, 3856930	1.23E-01	1.75E-03	9.22E-04	3.36E-02	2.43E-03	1.54E-02	1.22E-06	0.17674205	6.11E-02	1.75E-03	9.22E-04	3.36E-02	2.43E-03	7.02E-03	1.54E-02	1.22E-01
5717	487709.57, 3856928.43	1.17E-01	1.66E-03	9.26E-04	3.25E-02	2.27E-03	1.47E-02	1.25E-06	0.16881738	5.82E-02	1.66E-03	9.26E-04	3.25E-02	2.27E-03	6.43E-03	1.47E-02	1.17E-01
5718	487782.55, 3856841.96	9.18E-02	1.48E-03	9.23E-04	2.97E-02	2.08E-03	1.39E-02	1.18E-06	0.13990728	4.60E-02	1.48E-03	9.23E-04	2.97E-02	2.08E-03	6.03E-03	1.39E-02	1.00E-01
5719	487849.83, 3856754.74	8.06E-02	1.35E-03	9.20E-04	2.74E-02	1.91E-03	1.30E-02	1.12E-06	0.12522548	4.05E-02	1.35E-03	9.20E-04	2.74E-02	1.91E-03	5.61E-03	1.30E-02	9.07E-02
5720	487918.03, 3856819.39	8.97E-02	1.36E-03	9.29E-04	2.78E-02	1.87E-03	1.29E-02	1.21E-06	0.13457309	4.49E-02	1.36E-03	9.29E-04	2.78E-02	1.87E-03	5.31E-03	1.29E-02	9.51E-02
5721	487918.8, 3856886.37	9.72E-02	1.42E-03	9.36E-04	2.89E-02	1.90E-03	1.30E-02	1.27E-06	0.1433797	4.86E-02	1.42E-03	9.36E-04	2.89E-02	1.90E-03	5.24E-03	1.30E-02	1.00E-01
5722	488065.46, 3857127.5	1.12E-01	1.54E-03	9.65E-04	3.10E-02	1.86E-03	1.18E-02	1.60E-06	0.15931374	5.60E-02	1.54E-03	9.65E-04	3.10E-02	1.86E-03	3.74E-03	1.18E-02	1.07E-01
5723	488192.19, 3857385.83	1.10E-01	1.75E-03	1.04E-03	3.34E-02	1.82E-03	1.10E-02	2.20E-06	0.15949561	5.54E-02	1.75E-03	1.04E-03	3.34E-02	1.82E-03	2.31E-03	1.10E-02	1.07E-01
5724	488191.21, 3857473.87	1.12E-01	1.90E-03	1.07E-03	3.49E-02	1.86E-03	1.11E-02	2.48E-06	0.16293326	5.63E-02	1.90E-03	1.07E-03	3.49E-02	1.86E-03	1.97E-03	1.11E-02	1.09E-01
5725	488190.24, 3857561.9	1.14E-01	2.09E-03	1.11E-03	3.64E-02	1.90E-03	1.14E-02	2.85E-06	0.16674767	5.73E-02	2.09E-03	1.11E-03	3.64E-02	1.90E-03	1.69E-03	1.14E-02	1.12E-01
5726	488158.35, 3857691.13	1.17E-01	2.53E-03	1.17E-03	3.97E-02	2.02E-03	1.20E-02	3.61E-06	0.17476813	5.93E-02	2.53E-03	1.17E-03	3.97E-02	2.02E-03	1.35E-03	1.20E-02	1.18E-01
5727	488208.37, 3857816.66	1.11E-01	2.87E-03	1.25E-03	4.05E-02	1.79E-03	1.44E-02	5.07E-06	0.17228343	5.67E-02	2.87E-03	1.25E-03	4.05E-02	1.79E-03	1.12E-03	1.44E-02	1.19E-01
5728	488271.97, 3857874.6	1.11E-01	2.89E-03	1.31E-03	3.94E-02	1.59E-03	2.44E-02	6.30E-06	0.18008461	5.63E-02	2.89E-03	1.31E-03	3.94E-02	1.59E-03	1.16E-03	2.44E-02	1.27E-01
5729	488463.56, 3857942.31	9.59E-02	2.57E-03	1.41E-03	3.46E-02	1.28E-03	3.17E-02	1.00E-05	0.16751864	4.92E-02	2.57E-03	1.41E-03	3.46E-02	1.28E-03	1.17E-03	3.17E-02	1.22E-01
5730	488554.83, 3857940.83	8.82E-02	2.35E-03	1.42E-03	3.23E-02	1.21E-03	2.70E-02	1.09E-05	0.15247716	4.53E-02	2.35E-03	1.42E-03	3.23E-02	1.21E-03	1.11E-03	2.70E-02	1.11E-01
5731	488646.1, 3857939.36	8.25E-02	2.16E-03	1.42E-03	3.04E-02	1.14E-03	2.35E-02	1.13E-05	0.14103171	4.24E-02	2.16E-03	1.42E-03	3.04E-02	1.14E-03	1.08E-03	2.35E-02	1.02E-01
5732	488737.37, 3857937.88	7.82E-02	2.01E-03	1.43E-03	2.86E-02	1.08E-03	2.09E-02	1.13E-05	0.13228347	4.02E-02	2.01E-03	1.43E-03	2.86E-02	1.08E-03	1.05E-03	2.09E-02	9.53E-02
5733	488733.59, 3857960.57	8.02E-02	2.07E-03	1.46E-03	2.88E-02	1.07E-03	2.08E-02	1.29E-05	0.13434841	4.12E-02	2.07E-03	1.46E-03	2.88E-02	1.07E-03	1.02E-03	2.08E-02	9.64E-02
5734	488638.09, 3857961.57	8.47E-02	2.23E-03	1.45E-03	3.07E-02	1.13E-03	2.35E-02	1.32E-05	0.14373943	4.36E-02	2.23E-03	1.45E-03	3.07E-02	1.13E-03	1.05E-03	2.35E-02	1.04E-01
5735	488542.6, 3857962.56	9.12E-02	2.44E-03	1.44E-03	3.28E-02	1.20E-03	2.74E-02	1.30E-05	0.15643553	4.68E-02	2.44E-03	1.44E-03	3.28E-02	1.20E-03	1.09E-03	2.74E-02	1.13E-01
5736	488447.1, 3857963.56	1.00E-01	2.69E-03	1.43E-03	3.52E-02	1.29E-03	3.29E-02	1.19E-05	0.17392081	5.14E-02	2.69E-03	1.43E-03	3.52E-02	1.29E-03	1.15E-03	3.29E-02	1.26E-01
5737	488254.28, 3857890.36	1.17E-01	3.04E-03	1.32E-03	4.02E-02	1.59E-03	2.61E-02	6.77E-06	0.1890412	5.95E-02	3.04E-03	1.32E-03	4.02E-02	1.59E-03	1.16E-03	2.61E-02	1.33E-01
5738	488191.69, 3857833.06	1.17E-01	3.01E-03	1.26E-03	4.14E-02	1.80E-03	1.46E-02	5.35E-06	0.17923838	5.96E-02	3.01E-03	1.26E-03	4.14E-02	1.80E-03	1.09E-03	1.46E-02	1.23E-01
5739	488129.5, 3857907.43	1.68E-01	3.88E-03	1.31E-03	4.54E-02	1.79E-03	1.55E-02	7.07E-06	0.23594893	8.47E-02	3.88E-03	1.31E-03	4.54E-02	1.79E-03	9.88E-04	1.55E-02	1.54E-01
5740	488196.47, 3857968.73	1.69E-01	3.92E-03	1.37E-03	4.38E-02	1.58E-03	3.98E-02	1.08E-05	0.25960921	8.53E-02	3.92E-03	1.37E-03	4.38E-02	1.58E-03	1.23E-03	3.98E-02	1.77E-01
5741	488263.44, 3858030.04	1.71E-01	3.94E-03	1.45E-03	4.24E-02	1.45E-03	4.01E-02	2.42E-05	0.25986335	8.61E-02	3.94E-03	1.45E-03	4.24E-02	1.45E-03	1.17E-03	4.01E-02	1.77E-01
5742	488400.64, 3858132.9	1.65E-01	3.84E-03	1.62E-03	3.87E-02	1.30E-03	2.08E-02	1.30E-04	0.23136561	8.36E-02	3.84E-03	1.62E-03	3.87E-02	1.30E-03	8.11E-04	2.08E-02	1.51E-01
5743	488519.89, 3858218.38	1.65E-01	3.87E-03	1.82E-03	3.43E-02	1.24E-03	1.76E-02	9.89E-05	0.22415036	8.40E-02	3.87E-03	1.82E-03	3.43E-02	1.24E-03	6.89E-04	1.76E-02	1.44E-01
5744	488647.97, 3858214.99	1.41E-01	3.17E-03	1.82E-03	3.04E-02	1.11E-03	1.69E-02	5.02E-05	0.19454574	7.19E-02	3.17E-03	1.82E-03	3.04E-02	1.11E-03	6.88E-04	1.69E-02	1.26E-01
5745	488727.05, 3858167.67	1.24E-01	2.68E-03	1.74E-03	2.87E-02	1.04E-03	1.68E-02	3.39E-05	0.17503767	6.32E-02	2.68E-03	1.74E-03	2.87E-02	1.04E-03	7.36E-04	1.68E-02	1.15E-01
5746	488806.12, 3858120.35	1.13E-01	2.34E-03	1.67E-03	2.73E-02	9.88E-04	1.68E-02	2.49E-05	0.1623763	5.76E-02	2.34E-03	1.67E-03	2.73E-02	9.88E-04	7.91E-04	1.68E-02	1.08E-01
5747	488885.2, 3858073.03	1.06E-01	2.08E-03	1.60E-03	2.61E-02	9.55E-04	1.66E-02	1.91E-05	0.15288143	5.36E-02	2.08E-03	1.60E-03	2.61E-02	9.55E-04	8.48E-04	1.66E-02	1.02E-01
5748	489055.76, 3857991.17	9.71E-02	1.71E-03	1.48E-03	2.38E-02	9.01E-04	1.56E-02	1.30E-05	0.14055453	4.92E-02	1.71E-03	1.48E-03	2.38E-02	9.01E-04	9.32E-04	1.56E-02	9.36E-02
5749	489245.39, 3857944.54	9.79E-02	1.48E-03	1.36E-03	2.16E-02	8.46E-04	1.40E-02	1.06E-05	0.13724609	4.94E-02	1.48E-03	1.36E-03	2.16E-02	8.46E-04	9.61E-04	1.40E-02	8.96E-02
5750	489430.63, 3857930.91	9.99E-02	1.35E-03	1.29E-03	1.98E-02	7.90E-04	1.28E-02	9.97E-06	0.13590203	5.02E-02	1.35E-03	1.29E-03	1.98E-02	7.90E-04	9.49E-04	1.28E-02	8.71E-02
5751	489517.74, 3857929.36	9.95E-02	1.30E-03	1.27E-03	1.90E-02	7.65E-04	1.23E-02	9.90E-06	0.13417179	5.00E-02	1.30E-03	1.27E-03	1.90E-02	7.65E-04	9.38E-04	1.23E-02	8.55E-02
5752	489604.85, 3857927.82	9.80E-02	1.25E-03	1.24E-03	1.82E-02	7.42E-04	1.19E-02	9.81E-06	0.13140868	4.92E-02	1.25E-03	1.24E-03	1.82E-02	7.42E-04	9.27E-04	1.19E-02	8.35E-02
5753	489691.97, 3857926.28	9.60E-02	1.21E-03	1.23E-03	1.76E-02	7.19E-04	1.15E-02	9.80E-06	0.12830767	4.82E-02	1.21E-03	1.23E-03	1.76E-02	7.19E-04	9.16E-04	1.15E-02	8.14E-02
5754	489779.08, 3857924.73	9.38E-02	1.17E-03	1.22E-03	1.69E-02	6.98E-04	1.12E-02	9.84E-06	0.12506172	4.71E-02	1.17E-03	1.22E-03	1.69E-02	6.98E-04	9.04E-04	1.12E-02	7.92E-02
5755	490017.55, 3857875.08	7.68E-02	1.05E-03	1.15E-03	1.55E-02	6.53E-04	1.03E-02	8.99E-06	0.10536474	3.86E-02	1.05E-03	1.15E-03	1.55E-02	6.53E-04	9.05E-04	1.03E-02	6.81E-02
5756	490033.82, 3857960.81	7.56E-02	1.09E-03	1.24E-03	1.51E-02	6.34E-04	1.05E-02	1.12E-05	0.10415529	3.81E-02	1.09E-03	1.24E-03	1.51E-02	6.34E-04	8.43E-04	1.05E-02	6.75E-02
5757	489959.15, 3857987.49	7.54E-02	1.14E-03	1.28E-03	1.55E-02	6.45E-04	1.08E-02	1.19E-05	0.10474261	3.81E-02	1.14E-03	1.28E-03	1.55E-02	6.45E-04	8.33E-04	1.08E-02	6.82E-02
5758	489791.49, 3858016.12	7.25E-02	1.22E-03	1.31E-03	1.65E-02	6.76E-04	1.13E-02	1.25E-05	0.10347063	3.67E-02	1.22E-03	1.31E-03	1.65E-02	6.76E-04	8.37E-04	1.13E-02	6.86E-02
5759	489698.51, 3858018.07	7.54E-02	1.27E-03	1.33E-03	1.72E-02	6.98E-04	1.16E-02	1.24E-05	0.10755111	3.82E-02	1.27E-03	1.33E-03	1.72E-02	6.98E-04	8.46E-04	1.16E-02	7.12E-02
5760	489605.52, 3858020.01	7.84E-02	1.32E-03	1.35E-03	1.79E-02	7.21E-04	1.20E-02	1.24E-05	0.11176788	3.98E-02	1.32E-03	1.35E-03	1.79E-02	7.21E-04	8.54E-04	1.20E-02	7.39E-02
5761	489512.53, 3858021.96	8.16E-02	1.38E-03	1.38E-03	1.87E-02	7.45E-04	1.24E-02	1.25E-05	0.11620587	4.13E-02	1.38E-03	1.38E-03	1.87E-02	7.45E-04	8.62E-04	1.24E-02	7.68E-02
5762	489419.55, 3858023.91	8.51E-02	1.44E-03	1.41E-03	1.96E-02	7.70E-04	1.29E-02	1.27E-05	0.12113702	4.31E-02	1.44E-03	1.41E-03	1.96E-02	7.70E-04	8.68E-04	1.29E-02	8.00E-02
5763	489228.47, 3858041.29	9.41E-02	1.60E-03	1.47E-03	2.15E-02	8.26E-04	1.39E-02	1.39E-05	0.13337528	4.76E-02	1.60E-03	1.47E-03	2.15E-02	8.26E-04	8.70E-04	1.39E-02	8.78E-02
5764	489065.75, 3858085.78	1.01E-01	1.84E-03	1.60E-03	2.33E-02	8.73E-04	1.49E-02	1.70E-05	0.14369084	5.13E-02	1.84E-03	1.60E-03	2.33E-02	8.73E-04	8.31E-04	1.49E-02	9.47E-02
5765	489001.12, 3858114.86	1.07E-01	1.98E-03	1.66E-03	2.41E-02	8.93E-04	1.52E-02	1.93E-05	0.15097093	5.44E-02	1.98E-03	1.66E-03	2.41E-02	8.93E-04	8.01E-04	1.52E-02	9.90E-02
5766	488861.89, 3858189.81	1.21E-01	2.41E-03	1.79E-03	2.59E-02	9.55E-04	1.56E-02	2.76E-05	0.16768806	6.15E-02	2.41E-03	1.79E-03	2.59E-02	9.55E-04	7.20E-04	1.56E-02	1.09E-01
5767	488787.29, 3858235.69	1.30E-01	2.77E-03	1.88E-03	2.68E-02	1.01E-03	1.59E-02	3.59E-05	0.17817963	6.61E-02	2.77E-03	1.88E-03	2.68E-02	1.01E-03	6.71E-04	1.59E-02	1.15E-01
5768	488712.68, 3858281.57	1.42E-01	3.25E-03	1.97E-03	2.80E-02	1.09E-03	1.62E-02	5.10E-05	0.19276378	7.26E-02	3.25E-03	1.97E-03	2.80E-02	1.09E-03	6.35E-04	1.62E-02	1.24E-01

5769	488654.39, 3858436.17	1.59E-01	5.10E-03	2.44E-03	2.55E-02	1.38E-03	1.70E-02	8.09E-05	0.21043033	8.22E-02	5.10E-03	2.44E-03	2.55E-02	1.38E-03	5.47E-04	1.70E-02	1.34E-01
5770	488726.3, 3858505.26	1.46E-01	5.28E-03	2.78E-03	2.22E-02	1.40E-03	1.74E-02	7.53E-05	0.19479566	7.61E-02	5.28E-03	2.78E-03	2.22E-02	1.40E-03	5.16E-04	1.74E-02	1.26E-01
5771	488880.6, 3858599.28	1.55E-01	4.93E-03	3.50E-03	1.84E-02	1.29E-03	1.84E-02	1.65E-04	0.20131065	8.06E-02	4.93E-03	3.50E-03	1.84E-02	1.29E-03	4.77E-04	1.84E-02	1.28E-01
5772	489008.06, 3858714.75	1.16E-01	5.38E-03	5.13E-03	1.59E-02	1.27E-03	2.10E-02	1.64E-04	0.16495254	6.26E-02	5.38E-03	5.13E-03	1.59E-02	1.27E-03	4.38E-04	2.10E-02	1.12E-01
5773	489071.48, 3858772.72	1.10E-01	5.73E-03	7.43E-03	1.48E-02	1.21E-03	2.24E-02	1.68E-04	0.1614584	5.99E-02	5.73E-03	7.43E-03	1.48E-02	1.21E-03	4.22E-04	2.24E-02	1.12E-01
5774	489244.59, 3858920.19	1.12E-01	6.69E-03	2.45E-02	1.08E-02	6.75E-04	2.54E-02	1.76E-04	0.18011767	6.23E-02	6.69E-03	2.45E-02	1.08E-02	6.75E-04	3.83E-04	2.54E-02	1.31E-01
5775	489239.69, 3858952.23	1.17E-01	7.83E-03	3.11E-02	1.02E-02	6.15E-04	2.66E-02	1.31E-04	0.19312157	6.60E-02	7.83E-03	3.11E-02	1.02E-02	6.15E-04	3.78E-04	2.66E-02	1.43E-01
5776	489121.67, 3858854.49	1.12E-01	6.99E-03	1.70E-02	1.31E-02	1.01E-03	2.51E-02	9.87E-05	0.17510922	6.23E-02	6.99E-03	1.70E-02	1.31E-02	1.01E-03	4.02E-04	2.51E-02	1.26E-01
5777	489059.59, 3858797.27	1.12E-01	6.47E-03	9.12E-03	1.48E-02	1.27E-03	2.36E-02	7.93E-05	0.16684404	6.15E-02	6.47E-03	9.12E-03	1.48E-02	1.27E-03	4.17E-04	2.36E-02	1.17E-01
5778	488997.52, 3858740.04	1.15E-01	6.01E-03	5.77E-03	1.59E-02	1.36E-03	2.19E-02	7.58E-05	0.16626129	6.28E-02	6.01E-03	5.77E-03	1.59E-02	1.36E-03	4.33E-04	2.19E-02	1.14E-01
5779	488935.44, 3858682.82	1.26E-01	5.66E-03	4.50E-03	1.69E-02	1.37E-03	2.04E-02	8.98E-05	0.17491687	6.75E-02	5.66E-03	4.50E-03	1.69E-02	1.37E-03	4.50E-04	2.04E-02	1.17E-01
5780	488869.17, 3858848.43	1.81E-01	2.11E-02	1.37E-02	2.12E-02	3.33E-03	3.02E-02	2.10E-05	0.27052973	1.05E-01	2.11E-02	1.37E-02	2.12E-02	3.33E-03	4.15E-04	3.02E-02	1.95E-01
5781	488932.48, 3858892.69	1.83E-01	2.17E-02	4.73E-02	1.66E-02	1.61E-03	3.19E-02	2.24E-05	0.30254318	1.08E-01	2.17E-02	4.73E-02	1.66E-02	1.61E-03	4.03E-04	3.19E-02	2.28E-01
5782	489063.27, 3858977.17	1.78E-01	2.14E-02	8.05E-02	1.03E-02	6.29E-04	3.27E-02	2.82E-05	0.32389657	1.08E-01	2.14E-02	8.05E-02	1.03E-02	6.29E-04	3.82E-04	3.27E-02	2.54E-01
5783	489248.2, 3859117.15	1.88E-01	3.02E-02	9.72E-02	7.50E-03	3.73E-04	3.06E-02	9.76E-05	0.3543968	1.26E-01	3.02E-02	9.72E-02	7.50E-03	3.73E-04	3.52E-04	3.06E-02	2.92E-01
5784	489296.25, 3859049.22	1.33E-01	1.13E-02	5.01E-02	8.43E-03	4.45E-04	2.80E-02	7.02E-05	0.2313453	7.81E-02	1.13E-02	5.01E-02	8.43E-03	4.45E-04	3.59E-04	2.80E-02	1.77E-01
5785	489353.38, 3858993.96	1.23E-01	6.95E-03	3.03E-02	9.18E-03	5.02E-04	2.54E-02	5.81E-05	0.19535302	6.82E-02	6.95E-03	3.03E-02	9.18E-03	5.02E-04	3.65E-04	2.54E-02	1.41E-01
5786	489537.24, 3859120.22	1.38E-01	7.70E-03	3.74E-02	7.44E-03	3.59E-04	2.39E-02	3.04E-05	0.21519726	7.67E-02	7.70E-03	3.74E-02	7.44E-03	3.59E-04	3.37E-04	2.39E-02	1.54E-01
5787	489726.98, 3859246.04	1.39E-01	8.61E-03	4.44E-02	6.30E-03	2.86E-04	2.17E-02	2.10E-05	0.22024442	7.81E-02	8.61E-03	4.44E-02	6.30E-03	2.86E-04	3.12E-04	2.17E-02	1.60E-01
5788	489911.46, 3859366.33	1.38E-01	9.57E-03	5.04E-02	5.53E-03	2.43E-04	1.94E-02	1.54E-05	0.22352427	7.90E-02	9.57E-03	5.04E-02	5.53E-03	2.43E-04	2.90E-04	1.94E-02	1.64E-01
5789	490035.3, 3859430.26	1.43E-01	9.50E-03	5.06E-02	5.17E-03	2.24E-04	1.83E-02	1.29E-05	0.22653628	8.10E-02	9.50E-03	5.06E-02	5.17E-03	2.24E-04	2.77E-04	1.83E-02	1.65E-01
5790	490101.11, 3859458.61	1.38E-01	9.19E-03	4.94E-02	5.03E-03	2.17E-04	1.76E-02	1.19E-05	0.21934845	7.83E-02	9.19E-03	4.94E-02	5.03E-03	2.17E-04	2.72E-04	1.76E-02	1.60E-01
5791	490312.68, 3859560.3	1.30E-01	9.92E-03	5.30E-02	4.60E-03	1.95E-04	1.60E-02	9.48E-06	0.21353311	7.53E-02	9.92E-03	5.30E-02	4.60E-03	1.95E-04	2.55E-04	1.60E-02	1.59E-01
5792	490401.63, 3859603.12	1.34E-01	1.06E-02	5.63E-02	4.44E-03	1.87E-04	1.53E-02	8.74E-06	0.22114078	7.82E-02	1.06E-02	5.63E-02	4.44E-03	1.87E-04	2.49E-04	1.53E-02	1.65E-01
5793	490490.57, 3859645.94	1.35E-01	1.13E-02	5.97E-02	4.30E-03	1.80E-04	1.47E-02	8.12E-06	0.22467873	7.91E-02	1.13E-02	5.97E-02	4.30E-03	1.80E-04	2.43E-04	1.47E-02	1.69E-01
5794	490579.51, 3859688.76	1.34E-01	1.19E-02	6.31E-02	4.17E-03	1.74E-04	1.41E-02	7.61E-06	0.22711253	7.94E-02	1.19E-02	6.31E-02	4.17E-03	1.74E-04	2.37E-04	1.41E-02	1.73E-01
5795	490668.45, 3859731.58	1.32E-01	1.23E-02	6.50E-02	4.05E-03	1.69E-04	1.35E-02	7.16E-06	0.22678612	7.89E-02	1.23E-02	6.50E-02	4.05E-03	1.69E-04	2.33E-04	1.35E-02	1.74E-01
5796	490757.4, 3859774.4	1.32E-01	1.34E-02	7.10E-02	3.92E-03	1.63E-04	1.31E-02	6.81E-06	0.23334257	8.02E-02	1.34E-02	7.10E-02	3.92E-03	1.63E-04	2.27E-04	1.31E-02	1.82E-01
5797	491003.53, 3859861.82	1.25E-01	1.17E-02	6.40E-02	3.70E-03	1.53E-04	1.18E-02	6.20E-06	0.21653644	7.49E-02	1.17E-02	6.40E-02	3.70E-03	1.53E-04	2.17E-04	1.18E-02	1.66E-01
5798	491081.41, 3859879.05	1.23E-01	1.02E-02	5.71E-02	3.65E-03	1.51E-04	1.15E-02	6.16E-06	0.20538731	7.21E-02	1.02E-02	5.71E-02	3.65E-03	1.51E-04	2.15E-04	1.15E-02	1.55E-01
5799	491229.76, 3859917.82	1.19E-01	8.15E-03	4.60E-02	3.55E-03	1.46E-04	1.09E-02	5.90E-06	0.18739704	6.77E-02	8.15E-03	4.60E-02	3.55E-03	1.46E-04	2.10E-04	1.09E-02	1.37E-01
5800	491300.22, 3859939.35	1.14E-01	7.42E-03	4.15E-02	3.50E-03	1.44E-04	1.06E-02	5.72E-06	0.17709359	6.45E-02	7.42E-03	4.15E-02	3.50E-03	1.44E-04	2.08E-04	1.06E-02	1.28E-01
5801	491350.48, 3860012.03	1.11E-01	8.83E-03	4.61E-02	3.31E-03	1.36E-04	1.03E-02	3.99E-06	0.17989929	6.50E-02	8.83E-03	4.61E-02	3.31E-03	1.36E-04	1.99E-04	1.03E-02	1.34E-01
5802	491406.82, 3860092.56	1.11E-01	1.03E-02	5.20E-02	3.12E-03	1.28E-04	9.88E-03	3.38E-06	0.18650555	6.67E-02	1.03E-02	5.20E-02	3.12E-03	1.28E-04	1.90E-04	9.88E-03	1.42E-01
5803	491483.36, 3860121.96	1.07E-01	8.82E-03	4.63E-02	3.07E-03	1.26E-04	9.53E-03	3.26E-06	0.17496241	6.29E-02	8.82E-03	4.63E-02	3.07E-03	1.26E-04	1.88E-04	9.53E-03	1.31E-01
5804	491559.91, 3860151.35	1.04E-01	7.71E-03	4.16E-02	3.02E-03	1.24E-04	9.20E-03	3.13E-06	0.16517162	5.97E-02	7.71E-03	4.16E-02	3.02E-03	1.24E-04	1.85E-04	9.20E-03	1.22E-01
5805	491711.81, 3860237.76	9.70E-02	5.62E-03	2.87E-02	2.93E-03	1.20E-04	8.37E-03	2.86E-06	0.14273623	5.40E-02	5.62E-03	2.87E-02	2.93E-03	1.20E-04	1.82E-04	8.37E-03	9.99E-02
5806	491755.2, 3860319.07	8.84E-02	8.11E-03	4.14E-02	2.71E-03	1.11E-04	8.05E-03	2.53E-06	0.14877714	5.27E-02	8.11E-03	4.14E-02	2.71E-03	1.11E-04	1.70E-04	8.05E-03	1.13E-01
5807	491704.71, 3860366.54	9.27E-02	1.31E-02	5.92E-02	2.62E-03	1.08E-04	8.00E-03	2.43E-06	0.17579193	6.07E-02	1.31E-02	5.92E-02	2.62E-03	1.08E-04	1.67E-04	8.00E-03	1.44E-01
5808	491623.42, 3860462.39	6.13E-02	1.33E-02	3.51E-02	2.44E-03	1.02E-04	7.80E-03	2.25E-06	0.11997007	4.70E-02	1.33E-02	3.51E-02	2.44E-03	1.02E-04	1.60E-04	7.80E-03	1.06E-01
5809	491534.02, 3860439.84	4.31E-02	5.70E-03	2.00E-02	2.53E-03	1.06E-04	8.12E-03	2.40E-06	0.07955817	2.81E-02	5.70E-03	2.00E-02	2.53E-03	1.06E-04	1.67E-04	8.12E-03	6.47E-02
5810	491313.95, 3860268.17	5.57E-02	7.21E-03	2.72E-02	2.71E-03	1.13E-04	9.48E-03	2.69E-06	0.10231741	3.59E-02	7.21E-03	2.72E-02	2.71E-03	1.13E-04	1.74E-04	9.48E-03	8.27E-02
5811	491187.12, 3860143.56	7.25E-02	1.05E-02	3.78E-02	2.96E-03	1.23E-04	1.05E-02	3.13E-06	0.13437202	4.78E-02	1.05E-02	3.78E-02	2.96E-03	1.23E-04	1.86E-04	1.05E-02	1.10E-01
5812	491070.43, 3860075.97	6.85E-02	9.12E-03	3.51E-02	3.11E-03	1.29E-04	1.12E-02	3.43E-06	0.12712994	4.44E-02	9.12E-03	3.51E-02	3.11E-03	1.29E-04	1.93E-04	1.12E-02	1.03E-01
5813	490995.09, 3860039.38	6.72E-02	8.42E-03	3.29E-02	3.18E-03	1.33E-04	1.17E-02	3.61E-06	0.12344567	4.29E-02	8.42E-03	3.29E-02	3.18E-03	1.33E-04	1.97E-04	1.17E-02	9.93E-02
5814	490919.75, 3860002.8	6.79E-02	8.45E-03	3.30E-02	3.26E-03	1.36E-04	1.21E-02	3.81E-06	0.1249066	4.35E-02	8.45E-03	3.30E-02	3.26E-03	1.36E-04	2.01E-04	1.21E-02	1.01E-01
5815	490756.81, 3859894.53	1.00E-01	1.93E-02	5.67E-02	3.54E-03	1.48E-04	1.31E-02	4.52E-06	0.19317789	7.35E-02	1.93E-02	5.67E-02	3.54E-03	1.48E-04	2.14E-04	1.31E-02	1.67E-01
5816	490668.07, 3859860.92	9.70E-02	1.83E-02	5.43E-02	3.61E-03	1.52E-04	1.36E-02	4.73E-06	0.1869376	7.04E-02	1.83E-02	5.43E-02	3.61E-03	1.52E-04	2.18E-04	1.36E-02	1.60E-01
5817	490579.34, 3859827.3	9.66E-02	1.79E-02	5.42E-02	3.68E-03	1.55E-04	1.41E-02	5.01E-06	0.18669432	6.95E-02	1.79E-02	5.42E-02	3.68E-03	1.55E-04	2.23E-04	1.41E-02	1.60E-01
5818	490490.6, 3859793.68	9.47E-02	1.67E-02	5.16E-02	3.76E-03	1.59E-04	1.47E-02	5.30E-06	0.18156694	6.69E-02	1.67E-02	5.16E-02	3.76E-03	1.59E-04	2.27E-04	1.47E-02	1.54E-01
5819	490401.86, 3859760.07	9.38E-02	1.58E-02	4.98E-02	3.84E-03	1.63E-04	1.53E-02	5.65E-06	0.17877705	6.52E-02	1.58E-02	4.98E-02	3.84E-03	1.63E-04	2.32E-04	1.53E-02	1.50E-01
5820	490313.12, 3859726.45	9.44E-02	1.55E-02	4.94E-02	3.93E-03	1.68E-04	1.59E-02	6.09E-06	0.17930812	6.50E-02	1.55E-02	4.94E-02	3.93E-03	1.68E-04	2.37E-04	1.59E-02	1.50E-01
5821	490224.39, 3859692.83	9.52E-02	1.52E-02	4.87E-02	4.02E-03	1.73E-04	1.66E-02	6.63E-06	0.17984952	6.49E-02	1.52E-02	4.87E-02	4.02E-03	1.73E-04	2.43E-04	1.66E-02	1.50E-01
5822	490135.65, 3859659.22	9.56E-02	1.50E-02	4.77E-02	4.13E-03	1.79E-04	1.72E-02	7.28E-06	0.1797448	6.48E-02	1.50E-02	4.77E-02	4.13E-03	1.79E-04	2.50E-04	1.72E-02	1.49E-01

5823	489918.18, 3859559.23	1.04E-01	1.55E-02	4.66E-02	4.49E-03	1.97E-04	1.91E-02	1.00E-05	0.189777	6.98E-02	1.55E-02	4.66E-02	4.49E-03	1.97E-04	2.70E-04	1.91E-02	1.56E-01
5824	489743.61, 3859486	9.56E-02	1.02E-02	3.63E-02	4.78E-03	2.13E-04	2.12E-02	1.40E-05	0.16829843	5.92E-02	1.02E-02	3.63E-02	4.78E-03	2.13E-04	2.85E-04	2.12E-02	1.32E-01
5825	489660.32, 3859440.27	9.81E-02	1.02E-02	3.59E-02	4.99E-03	2.24E-04	2.25E-02	1.74E-05	0.17203731	6.05E-02	1.02E-02	3.59E-02	4.99E-03	2.24E-04	2.93E-04	2.25E-02	1.35E-01
5826	489577.04, 3859394.53	1.00E-01	1.02E-02	3.58E-02	5.22E-03	2.37E-04	2.41E-02	2.18E-05	0.17578511	6.15E-02	1.02E-02	3.58E-02	5.22E-03	2.37E-04	3.02E-04	2.41E-02	1.37E-01
5827	489493.75, 3859348.8	1.02E-01	1.01E-02	3.53E-02	5.48E-03	2.51E-04	2.58E-02	2.75E-05	0.17915305	6.24E-02	1.01E-02	3.53E-02	5.48E-03	2.51E-04	3.10E-04	2.58E-02	1.40E-01
5828	489321.28, 3859240.02	1.17E-01	1.22E-02	4.01E-02	6.22E-03	2.94E-04	3.00E-02	5.45E-05	0.20585366	7.29E-02	1.22E-02	4.01E-02	6.22E-03	2.94E-04	3.31E-04	3.00E-02	1.62E-01
5829	489235.41, 3859193.96	1.22E-01	1.17E-02	3.91E-02	6.61E-03	3.20E-04	3.20E-02	1.13E-04	0.2123579	7.54E-02	1.17E-02	3.91E-02	6.61E-03	3.20E-04	3.41E-04	3.20E-02	1.66E-01
5830	489149.54, 3859147.89	1.23E-01	1.09E-02	3.44E-02	7.05E-03	3.51E-04	3.49E-02	3.45E-05	0.21100322	7.51E-02	1.09E-02	3.44E-02	7.05E-03	3.51E-04	3.50E-04	3.49E-02	1.63E-01
5831	489063.68, 3859101.82	1.30E-01	1.03E-02	3.14E-02	7.60E-03	3.94E-04	3.76E-02	2.20E-05	0.21765759	7.83E-02	1.03E-02	3.14E-02	7.60E-03	3.94E-04	3.59E-04	3.76E-02	1.66E-01
5832	488977.81, 3859055.75	1.42E-01	9.66E-03	2.82E-02	8.32E-03	4.51E-04	4.06E-02	1.79E-05	0.22888192	8.37E-02	9.66E-03	2.82E-02	8.32E-03	4.51E-04	3.69E-04	4.06E-02	1.71E-01
5833	488891.94, 3859009.69	1.59E-01	8.92E-03	2.30E-02	9.27E-03	5.28E-04	4.54E-02	1.55E-05	0.24589998	9.16E-02	8.92E-03	2.30E-02	9.27E-03	5.28E-04	3.77E-04	4.54E-02	1.79E-01
5834	488808, 3859060.73	1.57E-01	3.51E-03	1.18E-02	8.19E-03	4.35E-04	5.97E-02	1.20E-05	0.2406683	8.14E-02	3.51E-03	1.18E-02	8.19E-03	4.35E-04	3.64E-04	5.97E-02	1.65E-01
5835	488809.93, 3859157.85	1.49E-01	2.24E-03	9.25E-03	7.02E-03	3.43E-04	6.26E-02	1.07E-05	0.23049353	7.55E-02	2.24E-03	9.25E-03	7.02E-03	3.43E-04	3.43E-04	6.26E-02	1.57E-01
5836	488811.85, 3859254.96	1.45E-01	1.66E-03	7.61E-03	6.24E-03	2.89E-04	6.50E-02	9.61E-06	0.22539488	7.25E-02	1.66E-03	7.61E-03	6.24E-03	2.89E-04	3.24E-04	6.50E-02	1.54E-01
5837	488813.78, 3859352.07	1.42E-01	1.33E-03	6.47E-03	5.64E-03	2.51E-04	6.66E-02	8.67E-06	0.2218547	7.06E-02	1.33E-03	6.47E-03	5.64E-03	2.51E-04	3.05E-04	6.66E-02	1.51E-01
5838	488815.71, 3859449.19	1.41E-01	1.12E-03	5.66E-03	5.16E-03	2.24E-04	6.65E-02	7.76E-06	0.21940895	7.00E-02	1.12E-03	5.66E-03	5.16E-03	2.24E-04	2.90E-04	6.65E-02	1.49E-01
5839	488910.04, 3859547.1	1.34E-01	1.04E-03	5.56E-03	4.73E-03	2.04E-04	4.40E-02	7.92E-06	0.18942535	6.65E-02	1.04E-03	5.56E-03	4.73E-03	2.04E-04	2.81E-04	4.40E-02	1.22E-01
5840	489002.45, 3859547.91	1.25E-01	1.14E-03	6.20E-03	4.72E-03	2.05E-04	3.81E-02	9.92E-06	0.17533405	6.23E-02	1.14E-03	6.20E-03	4.72E-03	2.05E-04	2.80E-04	3.81E-02	1.13E-01
5841	489094.85, 3859548.71	1.17E-01	1.25E-03	6.98E-03	4.70E-03	2.06E-04	3.38E-02	1.43E-05	0.16439568	5.87E-02	1.25E-03	6.98E-03	4.70E-03	2.06E-04	2.81E-04	3.38E-02	1.06E-01
5842	489230.05, 3859601.87	1.14E-01	1.31E-03	7.51E-03	4.47E-03	1.97E-04	2.85E-02	2.30E-05	0.15594807	5.71E-02	1.31E-03	7.51E-03	4.47E-03	1.97E-04	2.74E-04	2.85E-02	9.94E-02
5843	489227.52, 3859680.89	1.11E-01	1.13E-03	6.53E-03	4.23E-03	1.84E-04	2.72E-02	1.82E-05	0.14996809	5.53E-02	1.13E-03	6.53E-03	4.23E-03	1.84E-04	2.62E-04	2.72E-02	9.48E-02
5844	489133.47, 3859760.29	8.27E-02	9.26E-04	5.29E-03	4.02E-03	1.71E-04	2.78E-02	7.82E-06	0.12089318	4.14E-02	9.26E-04	5.29E-03	4.02E-03	1.71E-04	2.51E-04	2.78E-02	7.98E-02
5845	489041.96, 3859760.67	8.62E-02	8.66E-04	4.85E-03	4.02E-03	1.70E-04	2.93E-02	6.46E-06	0.12541883	4.30E-02	8.66E-04	4.85E-03	4.02E-03	1.70E-04	2.52E-04	2.93E-02	8.25E-02
5846	488950.45, 3859761.05	8.81E-02	8.14E-04	4.46E-03	4.01E-03	1.69E-04	3.11E-02	5.65E-06	0.12871716	4.39E-02	8.14E-04	4.46E-03	4.01E-03	1.69E-04	2.55E-04	3.11E-02	8.48E-02
5847	488858.94, 3859761.43	8.97E-02	7.69E-04	4.13E-03	4.00E-03	1.68E-04	3.33E-02	5.08E-06	0.13203186	4.46E-02	7.69E-04	4.13E-03	4.00E-03	1.68E-04	2.59E-04	3.33E-02	8.72E-02
5848	488767.43, 3859761.82	9.14E-02	7.27E-04	3.79E-03	3.97E-03	1.67E-04	3.63E-02	4.64E-06	0.13635642	4.54E-02	7.27E-04	3.79E-03	3.97E-03	1.67E-04	2.65E-04	3.63E-02	9.06E-02
5849	488675.92, 3859762.2	9.43E-02	6.92E-04	3.51E-03	3.94E-03	1.67E-04	4.03E-02	4.31E-06	0.1428597	4.68E-02	6.92E-04	3.51E-03	3.94E-03	1.67E-04	2.74E-04	4.03E-02	9.56E-02
5850	488584.41, 3859762.58	9.93E-02	6.58E-04	3.24E-03	3.91E-03	1.66E-04	4.62E-02	3.99E-06	0.15339189	4.91E-02	6.58E-04	3.24E-03	3.91E-03	1.66E-04	2.89E-04	4.62E-02	1.04E-01
5851	488492.9, 3859762.96	1.10E-01	6.30E-04	3.00E-03	3.88E-03	1.65E-04	5.53E-02	3.71E-06	0.1729438	5.43E-02	6.30E-04	3.00E-03	3.88E-03	1.65E-04	3.03E-04	5.53E-02	1.18E-01
5852	488402.76, 3859830.95	1.30E-01	5.78E-04	2.68E-03	3.66E-03	1.56E-04	7.13E-02	3.27E-06	0.20843894	6.40E-02	5.78E-04	2.68E-03	3.66E-03	1.56E-04	2.41E-04	7.13E-02	1.43E-01
5853	488404.14, 3859898.55	1.32E-01	5.54E-04	2.56E-03	3.48E-03	1.48E-04	7.10E-02	3.07E-06	0.20977626	6.50E-02	5.54E-04	2.56E-03	3.48E-03	1.48E-04	2.20E-04	7.10E-02	1.43E-01
5854	488505.18, 3859964.96	1.32E-01	5.55E-04	2.64E-03	3.35E-03	1.42E-04	5.99E-02	3.07E-06	0.19905958	6.52E-02	5.55E-04	2.64E-03	3.35E-03	1.42E-04	2.19E-04	5.99E-02	1.32E-01
5855	488604.84, 3859963.76	1.27E-01	5.75E-04	2.84E-03	3.37E-03	1.43E-04	5.38E-02	3.28E-06	0.18728362	6.23E-02	5.75E-04	2.84E-03	3.37E-03	1.43E-04	2.24E-04	5.38E-02	1.23E-01
5856	488704.51, 3859962.56	1.23E-01	5.99E-04	3.05E-03	3.40E-03	1.44E-04	4.89E-02	3.51E-06	0.17950132	6.08E-02	5.99E-04	3.05E-03	3.40E-03	1.44E-04	2.27E-04	4.89E-02	1.17E-01
5857	488804.18, 3859961.37	1.21E-01	6.27E-04	3.28E-03	3.44E-03	1.45E-04	4.35E-02	3.79E-06	0.17209067	5.97E-02	6.27E-04	3.28E-03	3.44E-03	1.45E-04	2.28E-04	4.35E-02	1.11E-01
5858	488903.85, 3859960.17	1.19E-01	6.58E-04	3.54E-03	3.47E-03	1.46E-04	3.79E-02	4.14E-06	0.16469283	5.87E-02	6.58E-04	3.54E-03	3.47E-03	1.46E-04	2.28E-04	3.79E-02	1.05E-01
5859	489003.52, 3859958.97	1.16E-01	6.90E-04	3.80E-03	3.49E-03	1.47E-04	3.38E-02	4.58E-06	0.15795207	5.74E-02	6.90E-04	3.80E-03	3.49E-03	1.47E-04	2.27E-04	3.38E-02	9.95E-02
5860	489103.18, 3859957.77	1.10E-01	7.28E-04	4.09E-03	3.51E-03	1.48E-04	3.07E-02	5.47E-06	0.1490489	5.44E-02	7.28E-04	4.09E-03	3.51E-03	1.48E-04	2.25E-04	3.07E-02	9.38E-02
5861	489201.48, 3860046.59	1.22E-01	7.05E-04	4.01E-03	3.33E-03	1.40E-04	2.99E-02	7.12E-06	0.15976608	6.01E-02	7.05E-04	4.01E-03	3.33E-03	1.40E-04	2.14E-04	2.99E-02	9.84E-02
5862	489200.11, 3860136.61	1.25E-01	6.53E-04	3.65E-03	3.14E-03	1.32E-04	3.21E-02	6.90E-06	0.16425076	6.15E-02	6.53E-04	3.65E-03	3.14E-03	1.32E-04	2.04E-04	3.21E-02	1.01E-01
5863	489198.74, 3860226.63	1.24E-01	6.12E-04	3.34E-03	2.97E-03	1.25E-04	3.82E-02	7.85E-06	0.16969302	6.14E-02	6.12E-04	3.34E-03	2.97E-03	1.25E-04	1.95E-04	3.82E-02	1.07E-01
5864	489197.38, 3860316.66	1.22E-01	5.77E-04	3.06E-03	2.80E-03	1.18E-04	5.58E-02	6.26E-06	0.18436319	6.01E-02	5.77E-04	3.06E-03	2.80E-03	1.18E-04	1.86E-04	5.58E-02	1.23E-01
5865	489196.01, 3860406.68	1.18E-01	5.44E-04	2.83E-03	2.66E-03	1.12E-04	5.83E-02	6.08E-06	0.18217497	5.80E-02	5.44E-04	2.83E-03	2.66E-03	1.12E-04	1.77E-04	5.83E-02	1.23E-01
5866	489194.64, 3860496.7	1.11E-01	5.10E-04	2.61E-03	2.52E-03	1.07E-04	5.33E-02	7.10E-06	0.1696164	5.45E-02	5.10E-04	2.61E-03	2.52E-03	1.07E-04	1.68E-04	5.33E-02	1.14E-01
5867	489193.27, 3860586.72	9.66E-02	4.79E-04	2.44E-03	2.40E-03	1.02E-04	3.48E-02	6.87E-06	0.13680624	4.76E-02	4.79E-04	2.44E-03	2.40E-03	1.02E-04	1.61E-04	3.48E-02	8.80E-02
5868	489092.02, 3860678.13	5.36E-02	4.38E-04	2.18E-03	2.27E-03	9.64E-05	2.03E-02	3.54E-06	0.07891586	2.66E-02	4.38E-04	2.18E-03	2.27E-03	9.64E-05	1.53E-04	2.03E-02	5.21E-02
5869	488992.13, 3860679.53	5.52E-02	4.25E-04	2.10E-03	2.25E-03	9.57E-05	2.07E-02	2.76E-06	0.08078057	2.74E-02	4.25E-04	2.10E-03	2.25E-03	9.57E-05	1.52E-04	2.07E-02	5.31E-02
5870	488892.24, 3860680.92	5.58E-02	4.14E-04	2.02E-03	2.24E-03	9.53E-05	2.08E-02	2.43E-06	0.08135555	2.77E-02	4.14E-04	2.02E-03	2.24E-03	9.53E-05	1.51E-04	2.08E-02	5.34E-02
5871	488792.36, 3860682.31	5.62E-02	4.04E-04	1.94E-03	2.23E-03	9.48E-05	2.06E-02	2.22E-06	0.0814727	2.79E-02	4.04E-04	1.94E-03	2.23E-03	9.48E-05	1.50E-04	2.06E-02	5.33E-02
5872	488692.48, 3860683.7	5.69E-02	3.94E-04	1.87E-03	2.22E-03	9.47E-05	2.03E-02	2.07E-06	0.08182537	2.82E-02	3.94E-04	1.87E-03	2.22E-03	9.47E-05	1.48E-04	2.03E-02	5.33E-02
5873	488592.59, 3860685.09	5.87E-02	3.85E-04	1.79E-03	2.20E-03	9.43E-05	1.96E-02	1.95E-06	0.0827733	2.90E-02	3.85E-04	1.79E-03	2.20E-03	9.43E-05	1.46E-04	1.96E-02	5.33E-02
5874	488492.71, 3860686.49	6.44E-02	3.77E-04	1.73E-03	2.20E-03	9.47E-05	1.94E-02	1.87E-06	0.08818056	3.18E-02	3.77E-04	1.73E-03	2.20E-03	9.47E-05	1.46E-04	1.94E-02	5.58E-02
5875	488299.07, 3860762.18	3.95E-02	3.53E-04	1.58E-03	2.14E-03	9.33E-05	1.36E-02	1.71E-06	0.05732989	1.97E-02	3.53E-04	1.58E-03	2.14E-03	9.33E-05	1.42E-04	1.36E-02	3.76E-02
5876	488205.32, 3860764.09	3.80E-02	3.46E-04	1.52E-03	2.12E-03	9.27E-05	1.29E-02	1.65E-06	0.05504904	1.89E-02	3.46E-04	1.52E-03	2.12E-03	9.27E-05	1.40E-04	1.29E-02	3.61E-02

5877	488111.56, 3860766	3.46E-02	3.39E-04	1.45E-03	2.10E-03	9.18E-05	1.21E-02	1.58E-06	0.05059639	1.72E-02	3.39E-04	1.45E-03	2.10E-03	9.18E-05	1.39E-04	1.21E-02	3.34E-02
5878	488017.81, 3860767.91	2.93E-02	3.32E-04	1.39E-03	2.07E-03	9.08E-05	1.11E-02	1.52E-06	0.04426046	1.47E-02	3.32E-04	1.39E-03	2.07E-03	9.08E-05	1.38E-04	1.11E-02	2.98E-02
5879	487924.06, 3860769.81	2.28E-02	3.24E-04	1.34E-03	2.06E-03	9.02E-05	1.03E-02	1.45E-06	0.03690695	1.15E-02	3.24E-04	1.34E-03	2.06E-03	9.02E-05	1.37E-04	1.03E-02	2.58E-02
5880	487830.31, 3860771.72	1.91E-02	3.19E-04	1.29E-03	2.05E-03	8.97E-05	9.61E-03	1.40E-06	0.03246499	9.71E-03	3.19E-04	1.29E-03	2.05E-03	8.97E-05	1.36E-04	9.61E-03	2.32E-02
5881	487736.55, 3860773.63	1.66E-02	3.12E-04	1.24E-03	2.04E-03	8.94E-05	9.03E-03	1.35E-06	0.02927482	8.45E-03	3.12E-04	1.24E-03	2.04E-03	8.94E-05	1.36E-04	9.03E-03	2.13E-02
5882	487642.8, 3860775.54	1.50E-02	3.07E-04	1.21E-03	2.04E-03	8.95E-05	8.55E-03	1.31E-06	0.027147	7.67E-03	3.07E-04	1.21E-03	2.04E-03	8.95E-05	1.36E-04	8.55E-03	2.00E-02
5883	487549.48, 3860684.71	1.68E-02	3.12E-04	1.20E-03	2.14E-03	9.34E-05	9.33E-03	1.32E-06	0.02982541	8.55E-03	3.12E-04	1.20E-03	2.14E-03	9.34E-05	1.40E-04	9.33E-03	2.18E-02
5884	487549.91, 3860591.97	2.09E-02	3.22E-04	1.23E-03	2.22E-03	9.70E-05	1.08E-02	1.36E-06	0.03561103	1.06E-02	3.22E-04	1.23E-03	2.22E-03	9.70E-05	1.45E-04	1.08E-02	2.54E-02
5885	487550.34, 3860499.23	2.66E-02	3.32E-04	1.27E-03	2.33E-03	1.01E-04	1.26E-02	1.42E-06	0.04326955	1.34E-02	3.32E-04	1.27E-03	2.33E-03	1.01E-04	1.50E-04	1.26E-02	3.02E-02
5886	487550.76, 3860406.49	3.52E-02	3.46E-04	1.31E-03	2.45E-03	1.06E-04	1.41E-02	1.48E-06	0.05357007	1.76E-02	3.46E-04	1.31E-03	2.45E-03	1.06E-04	1.57E-04	1.41E-02	3.61E-02
5887	487551.19, 3860313.75	4.98E-02	3.60E-04	1.34E-03	2.57E-03	1.11E-04	1.52E-02	1.55E-06	0.06929681	2.47E-02	3.60E-04	1.34E-03	2.57E-03	1.11E-04	1.63E-04	1.52E-02	4.44E-02
5888	487551.62, 3860221.01	5.58E-02	3.76E-04	1.38E-03	2.70E-03	1.16E-04	1.61E-02	1.63E-06	0.07643811	2.76E-02	3.76E-04	1.38E-03	2.70E-03	1.16E-04	1.70E-04	1.61E-02	4.85E-02
5889	487552.05, 3860128.27	5.81E-02	3.95E-04	1.43E-03	2.87E-03	1.23E-04	1.73E-02	1.73E-06	0.08022348	2.88E-02	3.95E-04	1.43E-03	2.87E-03	1.23E-04	1.78E-04	1.73E-02	5.11E-02
5890	487552.48, 3860035.53	6.00E-02	4.12E-04	1.48E-03	3.04E-03	1.30E-04	1.83E-02	1.84E-06	0.08333133	2.97E-02	4.12E-04	1.48E-03	3.04E-03	1.30E-04	1.86E-04	1.83E-02	5.33E-02
5891	487552.91, 3859942.79	6.16E-02	4.26E-04	1.51E-03	3.21E-03	1.36E-04	1.90E-02	1.93E-06	0.08589614	3.05E-02	4.26E-04	1.51E-03	3.21E-03	1.36E-04	1.94E-04	1.90E-02	5.50E-02
5892	487553.33, 3859850.05	6.34E-02	4.42E-04	1.56E-03	3.43E-03	1.45E-04	2.04E-02	2.04E-06	0.08937701	3.14E-02	4.42E-04	1.56E-03	3.43E-03	1.45E-04	2.04E-04	2.04E-02	5.76E-02
5893	487553.76, 3859757.31	6.56E-02	4.57E-04	1.60E-03	3.65E-03	1.53E-04	2.21E-02	2.16E-06	0.09351991	3.25E-02	4.57E-04	1.60E-03	3.65E-03	1.53E-04	2.13E-04	2.21E-02	6.07E-02
5894	487554.19, 3859664.57	6.98E-02	4.73E-04	1.63E-03	3.89E-03	1.63E-04	2.50E-02	2.28E-06	0.1010118	3.46E-02	4.73E-04	1.63E-03	3.89E-03	1.63E-04	2.23E-04	2.50E-02	6.60E-02
5895	487460.2, 3859571.05	7.00E-02	4.79E-04	1.57E-03	4.14E-03	1.71E-04	2.86E-02	2.30E-06	0.10504105	3.47E-02	4.79E-04	1.57E-03	4.14E-03	1.71E-04	2.32E-04	2.86E-02	6.99E-02
5896	487365.78, 3859570.27	5.92E-02	4.66E-04	1.49E-03	4.13E-03	1.70E-04	2.65E-02	2.20E-06	0.09200402	2.94E-02	4.66E-04	1.49E-03	4.13E-03	1.70E-04	2.30E-04	2.65E-02	6.24E-02
5897	487271.36, 3859569.48	4.77E-02	4.55E-04	1.42E-03	4.12E-03	1.69E-04	2.46E-02	2.09E-06	0.07844455	2.38E-02	4.55E-04	1.42E-03	4.12E-03	1.69E-04	2.28E-04	2.46E-02	5.48E-02
5898	487176.94, 3859568.7	3.89E-02	4.43E-04	1.35E-03	4.10E-03	1.68E-04	2.27E-02	1.99E-06	0.0676954	1.95E-02	4.43E-04	1.35E-03	4.10E-03	1.68E-04	2.25E-04	2.27E-02	4.85E-02
5899	487082.51, 3859567.92	3.32E-02	4.33E-04	1.29E-03	4.08E-03	1.66E-04	2.09E-02	1.89E-06	0.0600746	1.67E-02	4.33E-04	1.29E-03	4.08E-03	1.66E-04	2.24E-04	2.09E-02	4.38E-02
5900	486988.09, 3859567.14	2.93E-02	4.23E-04	1.24E-03	4.06E-03	1.65E-04	1.90E-02	1.80E-06	0.05416648	1.48E-02	4.23E-04	1.24E-03	4.06E-03	1.65E-04	2.23E-04	1.90E-02	3.99E-02
5901	486893.67, 3859566.36	2.63E-02	4.14E-04	1.19E-03	4.03E-03	1.64E-04	1.72E-02	1.71E-06	0.04928851	1.33E-02	4.14E-04	1.19E-03	4.03E-03	1.64E-04	2.23E-04	1.72E-02	3.66E-02
5902	486799.25, 3859565.58	2.39E-02	4.05E-04	1.15E-03	4.00E-03	1.63E-04	1.56E-02	1.62E-06	0.04523355	1.22E-02	4.05E-04	1.15E-03	4.00E-03	1.63E-04	2.23E-04	1.56E-02	3.37E-02
5903	486704.83, 3859564.79	2.21E-02	3.97E-04	1.11E-03	3.97E-03	1.62E-04	1.42E-02	1.55E-06	0.04192729	1.13E-02	3.97E-04	1.11E-03	3.97E-03	1.62E-04	2.24E-04	1.42E-02	3.13E-02
5904	486610.41, 3859564.01	2.07E-02	3.89E-04	1.07E-03	3.95E-03	1.61E-04	1.29E-02	1.48E-06	0.03917618	1.06E-02	3.89E-04	1.07E-03	3.95E-03	1.61E-04	2.25E-04	1.29E-02	2.93E-02
5905	486515.99, 3859563.23	1.95E-02	3.81E-04	1.04E-03	3.90E-03	1.59E-04	1.18E-02	1.42E-06	0.0367421	9.97E-03	3.81E-04	1.04E-03	3.90E-03	1.59E-04	2.25E-04	1.18E-02	2.75E-02
5906	486421.57, 3859562.45	1.84E-02	3.73E-04	1.00E-03	3.87E-03	1.58E-04	1.09E-02	1.36E-06	0.03465739	9.44E-03	3.73E-04	1.00E-03	3.87E-03	1.58E-04	2.27E-04	1.09E-02	2.59E-02
5907	486327.14, 3859561.67	1.74E-02	3.67E-04	9.75E-04	3.84E-03	1.57E-04	1.01E-02	1.30E-06	0.03284604	8.95E-03	3.67E-04	9.75E-04	3.84E-03	1.57E-04	2.28E-04	1.01E-02	2.46E-02
5908	486232.72, 3859560.89	1.65E-02	3.60E-04	9.47E-04	3.80E-03	1.55E-04	9.39E-03	1.24E-06	0.03115242	8.50E-03	3.60E-04	9.47E-04	3.80E-03	1.55E-04	2.29E-04	9.39E-03	2.34E-02
5909	486138.3, 3859560.1	1.57E-02	3.53E-04	9.21E-04	3.77E-03	1.54E-04	8.77E-03	1.19E-06	0.02964866	8.09E-03	3.53E-04	9.21E-04	3.77E-03	1.54E-04	2.30E-04	8.77E-03	2.23E-02
5910	486043.88, 3859559.32	1.49E-02	3.46E-04	8.97E-04	3.73E-03	1.52E-04	8.21E-03	1.15E-06	0.0282504	7.71E-03	3.46E-04	8.97E-04	3.73E-03	1.52E-04	2.29E-04	8.21E-03	2.13E-02
5911	485949.35, 3859463.54	1.51E-02	3.48E-04	8.83E-04	3.91E-03	1.57E-04	8.25E-03	1.12E-06	0.02866878	7.81E-03	3.48E-04	8.83E-04	3.91E-03	1.57E-04	2.41E-04	8.25E-03	2.16E-02
5912	485949.24, 3859368.55	1.61E-02	3.57E-04	8.93E-04	4.16E-03	1.65E-04	8.89E-03	1.14E-06	0.03053116	8.29E-03	3.57E-04	8.93E-04	4.16E-03	1.65E-04	2.53E-04	8.89E-03	2.30E-02
5913	485949.12, 3859273.55	1.71E-02	3.66E-04	9.02E-04	4.43E-03	1.74E-04	9.61E-03	1.15E-06	0.03256519	8.80E-03	3.66E-04	9.02E-04	4.43E-03	1.74E-04	2.68E-04	9.61E-03	2.45E-02
5914	485949.01, 3859178.56	1.82E-02	3.75E-04	9.11E-04	4.72E-03	1.83E-04	1.04E-02	1.16E-06	0.0347551	9.35E-03	3.75E-04	9.11E-04	4.72E-03	1.83E-04	2.83E-04	1.04E-02	2.62E-02
5915	485948.9, 3859083.56	1.93E-02	3.86E-04	9.21E-04	5.05E-03	1.93E-04	1.12E-02	1.17E-06	0.03712536	9.93E-03	3.86E-04	9.21E-04	5.05E-03	1.93E-04	3.00E-04	1.12E-02	2.80E-02
5916	485948.79, 3858988.56	2.05E-02	4.00E-04	9.29E-04	5.39E-03	2.03E-04	1.20E-02	1.18E-06	0.03941683	1.05E-02	4.00E-04	9.29E-04	5.39E-03	2.03E-04	3.18E-04	1.20E-02	2.98E-02
5917	485948.67, 3858893.57	2.16E-02	4.14E-04	9.37E-04	5.76E-03	2.14E-04	1.26E-02	1.18E-06	0.04156534	1.11E-02	4.14E-04	9.37E-04	5.76E-03	2.14E-04	3.38E-04	1.26E-02	3.14E-02
5918	485948.56, 3858798.57	2.28E-02	4.32E-04	9.44E-04	6.20E-03	2.28E-04	1.30E-02	1.19E-06	0.04357048	1.17E-02	4.32E-04	9.44E-04	6.20E-03	2.28E-04	3.61E-04	1.30E-02	3.28E-02
5919	485948.45, 3858703.58	2.39E-02	4.50E-04	9.46E-04	6.62E-03	2.40E-04	1.32E-02	1.18E-06	0.0453624	1.23E-02	4.50E-04	9.46E-04	6.62E-03	2.40E-04	3.83E-04	1.32E-02	3.41E-02
5920	485948.34, 3858608.58	2.51E-02	4.71E-04	9.48E-04	7.15E-03	2.55E-04	1.35E-02	1.18E-06	0.04735896	1.29E-02	4.71E-04	9.48E-04	7.15E-03	2.55E-04	4.09E-04	1.35E-02	3.56E-02
5921	485948.22, 3858513.59	2.63E-02	4.94E-04	9.47E-04	7.72E-03	2.72E-04	1.38E-02	1.18E-06	0.04954711	1.35E-02	4.94E-04	9.47E-04	7.72E-03	2.72E-04	4.39E-04	1.38E-02	3.72E-02
5922	485948.11, 3858418.59	2.78E-02	5.18E-04	9.43E-04	8.35E-03	2.89E-04	1.42E-02	1.18E-06	0.05206461	1.43E-02	5.18E-04	9.43E-04	8.35E-03	2.89E-04	4.70E-04	1.42E-02	3.90E-02
5923	485948, 3858323.59	2.96E-02	5.47E-04	9.36E-04	9.11E-03	3.09E-04	1.47E-02	1.18E-06	0.05516807	1.52E-02	5.47E-04	9.36E-04	9.11E-03	3.09E-04	5.08E-04	1.47E-02	4.13E-02
5924	485947.89, 3858228.6	3.19E-02	5.78E-04	9.24E-04	9.91E-03	3.30E-04	1.52E-02	1.18E-06	0.05887329	1.64E-02	5.78E-04	9.24E-04	9.91E-03	3.30E-04	5.48E-04	1.52E-02	4.39E-02
5925	485947.77, 3858133.6	3.52E-02	6.14E-04	9.09E-04	1.08E-02	3.53E-04	1.57E-02	1.18E-06	0.06362964	1.81E-02	6.14E-04	9.09E-04	1.08E-02	3.53E-04	5.91E-04	1.57E-02	4.71E-02
5926	485947.66, 3858038.61	3.96E-02	6.63E-04	8.96E-04	1.21E-02	3.82E-04	1.64E-02	1.17E-06	0.06997864	2.03E-02	6.63E-04	8.96E-04	1.21E-02	3.82E-04	6.49E-04	1.64E-02	5.13E-02
5927	485854.54, 3857943.35	4.14E-02	6.74E-04	8.73E-04	1.25E-02	3.92E-04	1.60E-02	1.11E-06	0.07186304	2.12E-02	6.74E-04	8.73E-04	1.25E-02	3.92E-04	6.90E-04	1.60E-02	5.23E-02
5928	485761.52, 3857943.09	3.57E-02	6.38E-04	8.66E-04	1.18E-02	3.77E-04	1.46E-02	1.06E-06	0.06399918	1.84E-02	6.38E-04	8.66E-04	1.18E-02	3.77E-04	6.75E-04	1.46E-02	4.73E-02
5929	485668.51, 3857942.83	3.18E-02	6.08E-04	8.59E-04	1.13E-02	3.64E-04	1.35E-02	1.03E-06	0.05840186	1.64E-02	6.08E-04	8.59E-04	1.13E-02	3.64E-04	6.62E-04	1.35E-02	4.37E-02
5930	485575.5, 3857942.56	2.89E-02	5.80E-04	8.51E-04	1.07E-02	3.51E-04	1.26E-02	9.86E-07	0.05399119	1.49E-02	5.80E-04	8.51E-04	1.07E-02	3.51E-04	6.47E-04	1.26E-02	4.07E-02

5931	485482.48, 3857942.3	2.66E-02	5.56E-04	8.45E-04	1.02E-02	3.39E-04	1.19E-02	9.51E-07	0.0504935	1.38E-02	5.56E-04	8.45E-04	1.02E-02	3.39E-04	6.35E-04	1.19E-02	3.83E-02
5932	485389.47, 3857942.04	2.48E-02	5.34E-04	8.37E-04	9.80E-03	3.28E-04	1.13E-02	9.18E-07	0.04753568	1.28E-02	5.34E-04	8.37E-04	9.80E-03	3.28E-04	6.23E-04	1.13E-02	3.63E-02
5933	485296.46, 3857941.78	2.32E-02	5.13E-04	8.30E-04	9.40E-03	3.18E-04	1.07E-02	8.87E-07	0.0449886	1.21E-02	5.13E-04	8.30E-04	9.40E-03	3.18E-04	6.12E-04	1.07E-02	3.45E-02
5934	485203.45, 3857941.52	2.19E-02	4.96E-04	8.22E-04	9.07E-03	3.10E-04	1.02E-02	8.60E-07	0.0428219	1.14E-02	4.96E-04	8.22E-04	9.07E-03	3.10E-04	6.03E-04	1.02E-02	3.29E-02
5935	485110.43, 3857941.26	2.07E-02	4.78E-04	8.14E-04	8.71E-03	3.00E-04	9.81E-03	8.31E-07	0.04085097	1.08E-02	4.78E-04	8.14E-04	8.71E-03	3.00E-04	5.91E-04	9.81E-03	3.15E-02
5936	485017.42, 3857940.99	1.97E-02	4.61E-04	8.06E-04	8.36E-03	2.90E-04	9.42E-03	8.04E-07	0.03906761	1.03E-02	4.61E-04	8.06E-04	8.36E-03	2.90E-04	5.78E-04	9.42E-03	3.02E-02
5937	484924.41, 3857940.73	1.88E-02	4.45E-04	7.99E-04	8.03E-03	2.81E-04	9.05E-03	7.78E-07	0.03743574	9.81E-03	4.45E-04	7.99E-04	8.03E-03	2.81E-04	5.65E-04	9.05E-03	2.90E-02
5938	484831.39, 3857940.47	1.80E-02	4.31E-04	7.91E-04	7.74E-03	2.73E-04	8.70E-03	7.54E-07	0.03595055	9.39E-03	4.31E-04	7.91E-04	7.74E-03	2.73E-04	5.54E-04	8.70E-03	2.79E-02
5939	484738.12, 3857859.3	1.81E-02	4.30E-04	7.84E-04	7.84E-03	2.76E-04	9.07E-03	7.27E-07	0.03653191	9.45E-03	4.30E-04	7.84E-04	7.84E-03	2.76E-04	5.71E-04	9.07E-03	2.84E-02
5940	484737.85, 3857778.4	1.92E-02	4.46E-04	7.84E-04	8.27E-03	2.89E-04	9.96E-03	7.23E-07	0.03892565	9.98E-03	4.46E-04	7.84E-04	8.27E-03	2.89E-04	6.02E-04	9.96E-03	3.03E-02
5941	484737.59, 3857697.49	2.04E-02	4.62E-04	7.83E-04	8.71E-03	3.01E-04	1.11E-02	7.20E-07	0.04182241	1.06E-02	4.62E-04	7.83E-04	8.71E-03	3.01E-04	6.34E-04	1.11E-02	3.26E-02
5942	484737.32, 3857616.59	2.20E-02	4.79E-04	7.82E-04	9.17E-03	3.14E-04	1.27E-02	7.15E-07	0.04545443	1.14E-02	4.79E-04	7.82E-04	9.17E-03	3.14E-04	6.66E-04	1.27E-02	3.55E-02
5943	484645.53, 3857535.18	2.29E-02	4.80E-04	7.78E-04	9.29E-03	3.17E-04	1.40E-02	6.91E-07	0.04776767	1.19E-02	4.80E-04	7.78E-04	9.29E-03	3.17E-04	6.79E-04	1.40E-02	3.74E-02
5944	484553.99, 3857534.67	2.19E-02	4.63E-04	7.75E-04	8.89E-03	3.06E-04	1.31E-02	6.72E-07	0.04545486	1.13E-02	4.63E-04	7.75E-04	8.89E-03	3.06E-04	6.57E-04	1.31E-02	3.56E-02
5945	484462.46, 3857534.17	2.10E-02	4.47E-04	7.72E-04	8.56E-03	2.97E-04	1.24E-02	6.55E-07	0.04340783	1.09E-02	4.47E-04	7.72E-04	8.56E-03	2.97E-04	6.37E-04	1.24E-02	3.39E-02
5946	484370.93, 3857533.66	2.01E-02	4.33E-04	7.70E-04	8.24E-03	2.88E-04	1.17E-02	6.38E-07	0.04151347	1.04E-02	4.33E-04	7.70E-04	8.24E-03	2.88E-04	6.16E-04	1.17E-02	3.25E-02
5947	484279.4, 3857533.16	1.93E-02	4.20E-04	7.68E-04	7.95E-03	2.80E-04	1.11E-02	6.22E-07	0.0397552	9.98E-03	4.20E-04	7.68E-04	7.95E-03	2.80E-04	5.97E-04	1.11E-02	3.11E-02
5948	484187.86, 3857532.65	1.85E-02	4.08E-04	7.65E-04	7.66E-03	2.72E-04	1.05E-02	6.06E-07	0.03809512	9.59E-03	4.08E-04	7.65E-04	7.66E-03	2.72E-04	5.78E-04	1.05E-02	2.98E-02
5949	484096.33, 3857532.15	1.77E-02	3.98E-04	7.64E-04	7.41E-03	2.64E-04	9.86E-03	5.91E-07	0.03643183	9.20E-03	3.98E-04	7.64E-04	7.41E-03	2.64E-04	5.60E-04	9.86E-03	2.85E-02
5950	484004.8, 3857531.64	1.71E-02	3.88E-04	7.62E-04	7.14E-03	2.56E-04	9.39E-03	5.76E-07	0.03500375	8.86E-03	3.88E-04	7.62E-04	7.14E-03	2.56E-04	5.40E-04	9.39E-03	2.73E-02
5951	483913.27, 3857531.14	1.65E-02	3.79E-04	7.59E-04	6.86E-03	2.48E-04	9.02E-03	5.61E-07	0.03376453	8.56E-03	3.79E-04	7.59E-04	6.86E-03	2.48E-04	5.20E-04	9.02E-03	2.64E-02
5952	483821.73, 3857530.63	1.60E-02	3.71E-04	7.55E-04	6.63E-03	2.41E-04	8.57E-03	5.48E-07	0.03260836	8.33E-03	3.71E-04	7.55E-04	6.63E-03	2.41E-04	5.02E-04	8.57E-03	2.54E-02
5953	483729.61, 3857450.11	1.69E-02	3.72E-04	7.57E-04	6.65E-03	2.41E-04	8.95E-03	5.33E-07	0.03383431	8.73E-03	3.72E-04	7.57E-04	6.65E-03	2.41E-04	5.03E-04	8.95E-03	2.62E-02
5954	483729.03, 3857370.08	1.85E-02	3.82E-04	7.62E-04	6.96E-03	2.50E-04	9.81E-03	5.32E-07	0.03661271	9.52E-03	3.82E-04	7.62E-04	6.96E-03	2.50E-04	5.24E-04	9.81E-03	2.82E-02
5955	483728.44, 3857290.06	2.08E-02	3.92E-04	7.67E-04	7.24E-03	2.58E-04	1.10E-02	5.29E-07	0.0404279	1.07E-02	3.92E-04	7.67E-04	7.24E-03	2.58E-04	5.42E-04	1.10E-02	3.09E-02
5956	483727.86, 3857210.03	2.43E-02	4.02E-04	7.72E-04	7.53E-03	2.66E-04	1.26E-02	5.24E-07	0.04587571	1.24E-02	4.02E-04	7.72E-04	7.53E-03	2.66E-04	5.60E-04	1.26E-02	3.45E-02
5957	483641.15, 3857129.07	2.63E-02	4.04E-04	7.76E-04	7.58E-03	2.67E-04	1.29E-02	5.09E-07	0.0482279	1.34E-02	4.04E-04	7.76E-04	7.58E-03	2.67E-04	5.58E-04	1.29E-02	3.58E-02
5958	483555.03, 3857128.14	2.39E-02	3.94E-04	7.74E-04	7.31E-03	2.59E-04	1.15E-02	4.99E-07	0.04421722	1.22E-02	3.94E-04	7.74E-04	7.31E-03	2.59E-04	5.36E-04	1.15E-02	3.30E-02
5959	483468.91, 3857127.2	2.22E-02	3.84E-04	7.71E-04	7.01E-03	2.50E-04	1.06E-02	4.89E-07	0.04119896	1.13E-02	3.84E-04	7.71E-04	7.01E-03	2.50E-04	5.12E-04	1.06E-02	3.09E-02
5960	483382.78, 3857126.26	2.08E-02	3.76E-04	7.69E-04	6.80E-03	2.43E-04	9.62E-03	4.80E-07	0.03861741	1.07E-02	3.76E-04	7.69E-04	6.80E-03	2.43E-04	4.95E-04	9.62E-03	2.90E-02
5961	483296.66, 3857125.32	1.96E-02	3.68E-04	7.66E-04	6.57E-03	2.36E-04	8.86E-03	4.71E-07	0.03643922	1.01E-02	3.68E-04	7.66E-04	6.57E-03	2.36E-04	4.76E-04	8.86E-03	2.74E-02
5962	483210.54, 3857124.39	1.86E-02	3.61E-04	7.62E-04	6.34E-03	2.28E-04	8.20E-03	4.62E-07	0.03450804	9.57E-03	3.61E-04	7.62E-04	6.34E-03	2.28E-04	4.57E-04	8.20E-03	2.59E-02
5963	483123.4, 3857030.96	1.91E-02	3.63E-04	7.68E-04	6.37E-03	2.28E-04	8.16E-03	4.49E-07	0.03501853	9.82E-03	3.63E-04	7.68E-04	6.37E-03	2.28E-04	4.53E-04	8.16E-03	2.62E-02
5964	483122.38, 3856938.46	2.07E-02	3.73E-04	7.78E-04	6.65E-03	2.36E-04	8.70E-03	4.44E-07	0.03747178	1.06E-02	3.73E-04	7.78E-04	6.65E-03	2.36E-04	4.68E-04	8.70E-03	2.78E-02
5965	483121.35, 3856845.97	2.25E-02	3.84E-04	7.89E-04	6.94E-03	2.45E-04	9.21E-03	4.38E-07	0.04008795	1.15E-02	3.84E-04	7.89E-04	6.94E-03	2.45E-04	4.84E-04	9.21E-03	2.96E-02
5966	483120.33, 3856753.47	2.44E-02	3.94E-04	8.00E-04	7.19E-03	2.51E-04	9.89E-03	4.30E-07	0.04290979	1.24E-02	3.94E-04	8.00E-04	7.19E-03	2.51E-04	4.95E-04	9.89E-03	3.15E-02
5967	483119.31, 3856660.98	2.63E-02	4.05E-04	8.13E-04	7.46E-03	2.58E-04	1.05E-02	4.22E-07	0.04575384	1.34E-02	4.05E-04	8.13E-04	7.46E-03	2.58E-04	5.06E-04	1.05E-02	3.33E-02
5968	483118.29, 3856568.49	2.82E-02	4.16E-04	8.29E-04	7.76E-03	2.66E-04	1.10E-02	4.13E-07	0.04852112	1.43E-02	4.16E-04	8.29E-04	7.76E-03	2.66E-04	5.21E-04	1.10E-02	3.51E-02
5969	483117.26, 3856475.99	3.04E-02	4.29E-04	8.47E-04	8.10E-03	2.74E-04	1.13E-02	4.03E-07	0.05135279	1.54E-02	4.29E-04	8.47E-04	8.10E-03	2.74E-04	5.36E-04	1.13E-02	3.69E-02
5970	483116.24, 3856383.5	3.30E-02	4.44E-04	8.67E-04	8.43E-03	2.82E-04	1.18E-02	3.94E-07	0.05475515	1.67E-02	4.44E-04	8.67E-04	8.43E-03	2.82E-04	5.50E-04	1.18E-02	3.90E-02
5971	483115.22, 3856291.01	3.68E-02	4.59E-04	8.89E-04	8.79E-03	2.91E-04	1.22E-02	3.84E-07	0.05943485	1.86E-02	4.59E-04	8.89E-04	8.79E-03	2.91E-04	5.64E-04	1.22E-02	4.18E-02
5972	483114.2, 3856198.51	4.37E-02	4.76E-04	9.12E-04	9.14E-03	2.99E-04	1.28E-02	3.75E-07	0.06733624	2.20E-02	4.76E-04	9.12E-04	9.14E-03	2.99E-04	5.75E-04	1.28E-02	4.62E-02
5973	483113.17, 3856106.02	5.81E-02	4.97E-04	9.39E-04	9.61E-03	3.09E-04	1.30E-02	3.67E-07	0.08247728	2.90E-02	4.97E-04	9.39E-04	9.61E-03	3.09E-04	5.90E-04	1.30E-02	5.40E-02
5974	483112.15, 3856013.52	6.52E-02	5.20E-04	9.67E-04	1.00E-02	3.18E-04	1.38E-02	3.60E-07	0.09093548	3.25E-02	5.20E-04	9.67E-04	1.00E-02	3.18E-04	5.98E-04	1.38E-02	5.88E-02
5975	483029.25, 3855920.47	5.32E-02	5.27E-04	9.93E-04	1.01E-02	3.15E-04	1.26E-02	3.50E-07	0.07764871	2.67E-02	5.27E-04	9.93E-04	1.01E-02	3.15E-04	5.72E-04	1.26E-02	5.17E-02
5976	482947.37, 3855919.91	4.26E-02	5.08E-04	9.90E-04	9.55E-03	3.02E-04	1.10E-02	3.45E-07	0.06502464	2.15E-02	5.08E-04	9.90E-04	9.55E-03	3.02E-04	5.43E-04	1.10E-02	4.45E-02
5977	482865.49, 3855919.36	3.60E-02	4.91E-04	9.88E-04	9.06E-03	2.90E-04	9.96E-03	3.40E-07	0.05680048	1.83E-02	4.91E-04	9.88E-04	9.06E-03	2.90E-04	5.15E-04	9.96E-03	3.96E-02
5978	482783.61, 3855918.8	3.19E-02	4.77E-04	9.87E-04	8.65E-03	2.79E-04	8.90E-03	3.36E-07	0.05118516	1.62E-02	4.77E-04	9.87E-04	8.65E-03	2.79E-04	4.92E-04	8.90E-03	3.60E-02
5979	482700.33, 3855818.39	3.34E-02	4.82E-04	1.02E-03	8.58E-03	2.76E-04	8.56E-03	3.26E-07	0.05226906	1.69E-02	4.82E-04	1.02E-03	8.58E-03	2.76E-04	4.68E-04	8.56E-03	3.63E-02
5980	482698.92, 3855718.54	5.19E-02	5.05E-04	1.06E-03	8.99E-03	2.84E-04	9.07E-03	3.21E-07	0.07176504	2.60E-02	5.05E-04	1.06E-03	8.99E-03	2.84E-04	4.68E-04	9.07E-03	4.64E-02
5981	482697.52, 3855618.68	5.96E-02	5.31E-04	1.10E-03	9.38E-03	2.90E-04	9.78E-03	3.16E-07	0.08070608	2.98E-02	5.31E-04	1.10E-03	9.38E-03	2.90E-04	4.65E-04	9.78E-03	5.14E-02
5982	482696.11, 3855518.83	6.22E-02	5.63E-04	1.14E-03	9.88E-03	2.98E-04	9.51E-03	3.12E-07	0.08361432	3.11E-02	5.63E-04	1.14E-03	9.88E-03	2.98E-04	4.65E-04	9.51E-03	5.30E-02
5983	482694.71, 3855418.98	6.35E-02	5.98E-04	1.19E-03	1.03E-02	3.03E-04	9.29E-03	3.08E-07	0.0851922	3.18E-02	5.98E-04	1.19E-03	1.03E-02	3.03E-04	4.58E-04	9.29E-03	5.40E-02
5984	482693.3, 3855319.13	6.42E-02	6.39E-04	1.23E-03	1.08E-02	3.08E-04	8.76E-03	3.04E-07	0.08599478	3.23E-02	6.39E-04	1.23E-03	1.08E-02	3.08E-04	4.49E-04	8.76E-03	5.45E-02

5985	482691.9, 3855219.27	6.47E-02	6.89E-04	1.29E-03	1.14E-02	3.15E-04	7.81E-03	3.00E-07	0.08626381	3.26E-02	6.89E-04	1.29E-03	1.14E-02	3.15E-04	4.41E-04	7.81E-03	5.46E-02
5986	482690.49, 3855119.42	6.50E-02	7.46E-04	1.34E-03	1.20E-02	3.21E-04	7.25E-03	2.95E-07	0.08666707	3.28E-02	7.46E-04	1.34E-03	1.20E-02	3.21E-04	4.30E-04	7.25E-03	5.50E-02
5987	482689.09, 3855019.57	6.52E-02	8.20E-04	1.41E-03	1.29E-02	3.32E-04	6.05E-03	2.89E-07	0.08676478	3.31E-02	8.20E-04	1.41E-03	1.29E-02	3.32E-04	4.21E-04	6.05E-03	5.50E-02
5988	482687.68, 3854919.71	6.53E-02	9.07E-04	1.48E-03	1.37E-02	3.41E-04	4.72E-03	2.83E-07	0.08646408	3.33E-02	9.07E-04	1.48E-03	1.37E-02	3.41E-04	4.06E-04	4.72E-03	5.49E-02
5989	482686.28, 3854819.86	6.58E-02	1.02E-03	1.57E-03	1.47E-02	3.54E-04	3.53E-03	2.77E-07	0.08689695	3.37E-02	1.02E-03	1.57E-03	1.47E-02	3.54E-04	3.89E-04	3.53E-03	5.53E-02
5990	482684.88, 3854720.01	6.66E-02	1.15E-03	1.66E-03	1.54E-02	3.64E-04	2.90E-03	2.71E-07	0.08815688	3.44E-02	1.15E-03	1.66E-03	1.54E-02	3.64E-04	3.67E-04	2.90E-03	5.63E-02
5991	482683.47, 3854620.16	6.68E-02	1.32E-03	1.77E-03	1.64E-02	3.80E-04	2.43E-03	2.65E-07	0.0891239	3.48E-02	1.32E-03	1.77E-03	1.64E-02	3.80E-04	3.47E-04	2.43E-03	5.75E-02
5992	482682.07, 3854520.31	6.70E-02	1.51E-03	1.89E-03	1.68E-02	3.94E-04	2.14E-03	2.59E-07	0.0896418	3.53E-02	1.51E-03	1.89E-03	1.68E-02	3.94E-04	3.26E-04	2.14E-03	5.83E-02
5993	482680.66, 3854420.45	6.70E-02	1.72E-03	2.03E-03	1.65E-02	4.09E-04	1.93E-03	2.53E-07	0.08962652	3.57E-02	1.72E-03	2.03E-03	1.65E-02	4.09E-04	3.09E-04	1.93E-03	5.86E-02
5994	482679.26, 3854320.6	6.68E-02	1.93E-03	2.20E-03	1.58E-02	4.20E-04	1.78E-03	2.48E-07	0.08895124	3.59E-02	1.93E-03	2.20E-03	1.58E-02	4.20E-04	2.94E-04	1.78E-03	5.84E-02
5995	482677.85, 3854220.75	6.66E-02	2.13E-03	2.41E-03	1.54E-02	4.43E-04	1.60E-03	2.41E-07	0.08851675	3.61E-02	2.13E-03	2.41E-03	1.54E-02	4.43E-04	2.84E-04	1.60E-03	5.83E-02
5996	482676.45, 3854120.9	6.54E-02	2.27E-03	2.66E-03	1.38E-02	4.41E-04	1.52E-03	2.37E-07	0.08614871	3.56E-02	2.27E-03	2.66E-03	1.38E-02	4.41E-04	2.67E-04	1.52E-03	5.66E-02
5997	482675.04, 3854021.04	6.45E-02	2.46E-03	2.98E-03	1.24E-02	4.43E-04	1.43E-03	2.32E-07	0.08419205	3.53E-02	2.46E-03	2.98E-03	1.24E-02	4.43E-04	2.50E-04	1.43E-03	5.53E-02
5998	482673.64, 3853921.19	6.19E-02	2.65E-03	3.40E-03	1.08E-02	4.41E-04	1.35E-03	2.28E-07	0.08053645	3.42E-02	2.65E-03	3.40E-03	1.08E-02	4.41E-04	2.30E-04	1.35E-03	5.31E-02
5999	482672.23, 3853821.34	6.01E-02	2.91E-03	4.03E-03	9.41E-03	4.48E-04	1.26E-03	2.22E-07	0.07818925	3.36E-02	2.91E-03	4.03E-03	9.41E-03	4.48E-04	2.12E-04	1.26E-03	5.19E-02
6000	482670.83, 3853721.48	5.85E-02	3.24E-03	5.01E-03	7.91E-03	4.40E-04	1.18E-03	2.16E-07	0.07624823	3.31E-02	3.24E-03	5.01E-03	7.91E-03	4.40E-04	1.96E-04	1.18E-03	5.11E-02
6001	482669.42, 3853621.63	5.68E-02	3.67E-03	6.65E-03	6.53E-03	3.90E-04	1.11E-03	2.11E-07	0.07515062	3.27E-02	3.67E-03	6.65E-03	6.53E-03	3.90E-04	1.83E-04	1.11E-03	5.12E-02
6002	482645.99, 3853446.13	5.27E-02	4.49E-03	1.30E-02	4.50E-03	2.26E-04	1.02E-03	2.03E-07	0.07586626	3.13E-02	4.49E-03	1.30E-02	4.50E-03	2.26E-04	1.72E-04	1.02E-03	5.47E-02
6003	482623.96, 3853370.48	5.02E-02	4.65E-03	1.55E-02	3.83E-03	1.91E-04	9.84E-04	2.00E-07	0.07534396	3.02E-02	4.65E-03	1.55E-02	3.83E-03	1.91E-04	1.69E-04	9.84E-04	5.55E-02
6004	482601.94, 3853294.84	4.85E-02	4.95E-03	1.76E-02	3.39E-03	1.69E-04	9.54E-04	1.97E-07	0.07549165	2.96E-02	4.95E-03	1.76E-02	3.39E-03	1.69E-04	1.68E-04	9.54E-04	5.68E-02
6005	482531.29, 3853133.44	4.68E-02	5.71E-03	2.11E-02	2.80E-03	1.41E-04	8.91E-04	1.90E-07	0.07744604	2.97E-02	5.71E-03	2.11E-02	2.80E-03	1.41E-04	1.66E-04	8.91E-04	6.05E-02
6006	482482.68, 3853047.69	4.61E-02	6.15E-03	2.35E-02	2.59E-03	1.32E-04	8.57E-04	1.87E-07	0.07928057	2.99E-02	6.15E-03	2.35E-02	2.59E-03	1.32E-04	1.64E-04	8.57E-04	6.33E-02
6007	482383.08, 3852897.4	4.98E-02	9.14E-03	2.93E-02	2.29E-03	1.18E-04	8.06E-04	1.82E-07	0.09143121	3.53E-02	9.14E-03	2.93E-02	2.29E-03	1.18E-04	1.58E-04	8.06E-04	7.71E-02
6008	482265.64, 3852765.26	5.05E-02	1.03E-02	3.13E-02	2.10E-03	1.08E-04	7.63E-04	1.77E-07	0.09510465	3.71E-02	1.03E-02	3.13E-02	2.10E-03	1.08E-04	1.49E-04	7.63E-04	8.18E-02
6009	482199.16, 3852697.66	4.96E-02	1.02E-02	3.12E-02	2.02E-03	1.03E-04	7.42E-04	1.74E-07	0.09395693	3.65E-02	1.02E-02	3.12E-02	2.02E-03	1.03E-04	1.45E-04	7.42E-04	8.10E-02
6010	482132.69, 3852630.07	4.87E-02	1.00E-02	3.14E-02	1.94E-03	9.89E-05	7.21E-04	1.71E-07	0.09287258	3.58E-02	1.00E-02	3.14E-02	1.94E-03	9.89E-05	1.40E-04	7.21E-04	8.01E-02
6011	482066.21, 3852562.48	4.80E-02	9.93E-03	3.12E-02	1.87E-03	9.50E-05	7.02E-04	1.68E-07	0.09178173	3.54E-02	9.93E-03	3.12E-02	1.87E-03	9.50E-05	1.36E-04	7.02E-04	7.93E-02
6012	481999.74, 3852494.89	4.72E-02	9.76E-03	3.06E-02	1.81E-03	9.13E-05	6.86E-04	1.66E-07	0.09012612	3.47E-02	9.76E-03	3.06E-02	1.81E-03	9.13E-05	1.33E-04	6.86E-04	7.78E-02
6013	481933.26, 3852427.29	4.61E-02	9.48E-03	2.99E-02	1.74E-03	8.80E-05	6.71E-04	1.63E-07	0.08801275	3.39E-02	9.48E-03	2.99E-02	1.74E-03	8.80E-05	1.29E-04	6.71E-04	7.59E-02
6014	481866.79, 3852359.7	4.56E-02	9.42E-03	2.97E-02	1.68E-03	8.50E-05	6.55E-04	1.61E-07	0.08716046	3.36E-02	9.42E-03	2.97E-02	1.68E-03	8.50E-05	1.25E-04	6.55E-04	7.53E-02
6015	481800.31, 3852292.11	4.47E-02	9.17E-03	2.96E-02	1.62E-03	8.23E-05	6.39E-04	1.58E-07	0.0858465	3.28E-02	9.17E-03	2.96E-02	1.62E-03	8.23E-05	1.22E-04	6.39E-04	7.41E-02
6016	481733.84, 3852224.52	4.40E-02	9.00E-03	2.94E-02	1.57E-03	7.96E-05	6.26E-04	1.56E-07	0.08473319	3.23E-02	9.00E-03	2.94E-02	1.57E-03	7.96E-05	1.19E-04	6.26E-04	7.31E-02
6017	481667.36, 3852156.92	4.38E-02	9.00E-03	3.00E-02	1.52E-03	7.73E-05	6.12E-04	1.53E-07	0.08498061	3.22E-02	9.00E-03	3.00E-02	1.52E-03	7.73E-05	1.16E-04	6.12E-04	7.35E-02
6018	481600.89, 3852089.33	4.31E-02	8.81E-03	2.97E-02	1.47E-03	7.48E-05	6.02E-04	1.51E-07	0.08377795	3.16E-02	8.81E-03	2.97E-02	1.47E-03	7.48E-05	1.13E-04	6.02E-04	7.24E-02
6019	481534.41, 3852021.74	4.28E-02	8.75E-03	2.94E-02	1.43E-03	7.24E-05	5.94E-04	1.49E-07	0.08306022	3.14E-02	8.75E-03	2.94E-02	1.43E-03	7.24E-05	1.10E-04	5.94E-04	7.18E-02
6020	481467.94, 3851954.15	4.25E-02	8.69E-03	2.96E-02	1.39E-03	7.02E-05	5.86E-04	1.47E-07	0.08283057	3.12E-02	8.69E-03	2.96E-02	1.39E-03	7.02E-05	1.07E-04	5.86E-04	7.16E-02
6021	481401.46, 3851886.55	4.23E-02	8.66E-03	3.05E-02	1.35E-03	6.82E-05	5.75E-04	1.45E-07	0.08353538	3.11E-02	8.66E-03	3.05E-02	1.35E-03	6.82E-05	1.05E-04	5.75E-04	7.24E-02
6022	481265.87, 3851761.43	3.96E-02	7.60E-03	3.12E-02	1.28E-03	6.45E-05	5.60E-04	1.41E-07	0.08035161	2.85E-02	7.60E-03	3.12E-02	1.28E-03	6.45E-05	9.96E-05	5.60E-04	6.93E-02
6023	481196.74, 3851703.89	3.95E-02	7.09E-03	3.18E-02	1.25E-03	6.29E-05	5.52E-04	1.39E-07	0.08024902	2.78E-02	7.09E-03	3.18E-02	1.25E-03	6.29E-05	9.70E-05	5.52E-04	6.87E-02
6024	481076.33, 3851619.04	3.95E-02	6.86E-03	3.19E-02	1.22E-03	6.03E-05	5.40E-04	1.36E-07	0.08007173	2.76E-02	6.86E-03	3.19E-02	1.22E-03	6.03E-05	9.24E-05	5.40E-04	6.83E-02
6025	480939.8, 3851549.07	3.91E-02	6.64E-03	3.04E-02	1.19E-03	5.77E-05	5.27E-04	1.32E-07	0.07792288	2.72E-02	6.64E-03	3.04E-02	1.19E-03	5.77E-05	8.69E-05	5.27E-04	6.60E-02
6026	480854.56, 3851506.41	3.94E-02	6.68E-03	3.03E-02	1.17E-03	5.61E-05	5.18E-04	1.30E-07	0.07817195	2.73E-02	6.68E-03	3.03E-02	1.17E-03	5.61E-05	8.34E-05	5.18E-04	6.62E-02
6027	480769.32, 3851463.75	4.02E-02	6.77E-03	3.07E-02	1.16E-03	5.45E-05	5.09E-04	1.28E-07	0.07940308	2.78E-02	6.77E-03	3.07E-02	1.16E-03	5.45E-05	8.02E-05	5.09E-04	6.71E-02
6028	480684.08, 3851421.08	4.09E-02	6.87E-03	3.12E-02	1.15E-03	5.30E-05	5.00E-04	1.25E-07	0.08070374	2.83E-02	6.87E-03	3.12E-02	1.15E-03	5.30E-05	7.70E-05	5.00E-04	6.81E-02
6029	480598.84, 3851378.42	4.10E-02	6.89E-03	3.11E-02	1.13E-03	5.14E-05	4.93E-04	1.24E-07	0.08072033	2.83E-02	6.89E-03	3.11E-02	1.13E-03	5.14E-05	7.40E-05	4.93E-04	6.81E-02
6030	480435.71, 3851275.01	4.70E-02	9.39E-03	3.69E-02	1.09E-03	4.85E-05	4.78E-04	1.20E-07	0.09489964	3.42E-02	9.39E-03	3.69E-02	1.09E-03	4.85E-05	6.92E-05	4.78E-04	8.21E-02
6031	480347.85, 3851232.36	4.59E-02	9.29E-03	3.67E-02	1.07E-03	4.70E-05	4.72E-04	1.18E-07	0.09345102	3.35E-02	9.29E-03	3.67E-02	1.07E-03	4.70E-05	6.65E-05	4.72E-04	8.11E-02
6032	480260, 3851189.72	4.54E-02	9.19E-03	3.66E-02	1.06E-03	4.56E-05	4.67E-04	1.17E-07	0.09276197	3.31E-02	9.19E-03	3.66E-02	1.06E-03	4.56E-05	6.41E-05	4.67E-04	8.05E-02
6033	480172.15, 3851147.07	4.52E-02	9.11E-03	3.65E-02	1.04E-03	4.42E-05	4.61E-04	1.15E-07	0.09230261	3.28E-02	9.11E-03	3.65E-02	1.04E-03	4.42E-05	6.18E-05	4.61E-04	8.00E-02
6034	480084.29, 3851104.42	4.51E-02	9.02E-03	3.66E-02	1.01E-03	4.28E-05	4.54E-04	1.13E-07	0.09221201	3.26E-02	9.02E-03	3.66E-02	1.01E-03	4.28E-05	5.97E-05	4.54E-04	7.98E-02
6035	479996.44, 3851061.77	4.51E-02	8.96E-03	3.67E-02	9.91E-04	4.15E-05	4.48E-04	1.12E-07	0.09226739	3.26E-02	8.96E-03	3.67E-02	9.91E-04	4.15E-05	5.78E-05	4.48E-04	7.98E-02
6036	479908.58, 3851019.13	4.57E-02	9.13E-03	3.84E-02	9.61E-04	4.01E-05	4.35E-04	1.09E-07	0.09469553	3.30E-02	9.13E-03	3.84E-02	9.61E-04	4.01E-05	5.61E-05	4.35E-04	8.21E-02
6037	479820.73, 3850976.48	4.58E-02	9.06E-03	3.84E-02	9.34E-04	3.89E-05	4.29E-04	1.08E-07	0.09463824	3.30E-02	9.06E-03	3.84E-02	9.34E-04	3.89E-05	5.45E-05	4.29E-04	8.18E-02
6038	479732.88, 3850933.83	4.65E-02	8.99E-03	3.84E-02	9.06E-04	3.77E-05	4.25E-04	1.06E-07	0.09527768	3.32E-02	8.99E-03	3.84E-02	9.06E-04	3.77E-05	5.31E-05	4.25E-04	8.20E-02

6039	479645.02, 3850891.18	4.74E-02	8.97E-03	3.85E-02	8.78E-04	3.66E-05	4.21E-04	1.05E-07	0.09613043	3.36E-02	8.97E-03	3.85E-02	8.78E-04	3.66E-05	5.18E-05	4.21E-04	8.24E-02
6040	479557.17, 3850848.54	4.79E-02	8.89E-03	3.81E-02	8.50E-04	3.57E-05	4.19E-04	1.04E-07	0.09618791	3.37E-02	8.89E-03	3.81E-02	8.50E-04	3.57E-05	5.06E-05	4.19E-04	8.21E-02
6041	479469.32, 3850805.89	4.85E-02	8.98E-03	3.91E-02	8.19E-04	3.46E-05	4.13E-04	1.03E-07	0.09782871	3.42E-02	8.98E-03	3.91E-02	8.19E-04	3.46E-05	4.95E-05	4.13E-04	8.35E-02
6042	479381.46, 3850763.24	4.85E-02	8.89E-03	3.87E-02	7.93E-04	3.39E-05	4.13E-04	1.02E-07	0.09726155	3.41E-02	8.89E-03	3.87E-02	7.93E-04	3.39E-05	4.86E-05	4.13E-04	8.29E-02
6043	479293.61, 3850720.59	4.80E-02	8.73E-03	3.76E-02	7.69E-04	3.33E-05	4.16E-04	1.02E-07	0.09553989	3.37E-02	8.73E-03	3.76E-02	7.69E-04	3.33E-05	4.77E-05	4.16E-04	8.12E-02
6044	479205.76, 3850677.95	4.76E-02	8.61E-03	3.67E-02	7.45E-04	3.27E-05	4.17E-04	1.02E-07	0.09415433	3.34E-02	8.61E-03	3.67E-02	7.45E-04	3.27E-05	4.70E-05	4.17E-04	7.99E-02
6045	479117.9, 3850635.3	4.68E-02	8.32E-03	3.52E-02	7.22E-04	3.21E-05	4.20E-04	1.01E-07	0.09150744	3.26E-02	8.32E-03	3.52E-02	7.22E-04	3.21E-05	4.63E-05	4.20E-04	7.74E-02
6046	479030.05, 3850592.65	4.59E-02	8.07E-03	3.43E-02	6.98E-04	3.16E-05	4.20E-04	1.01E-07	0.08944522	3.19E-02	8.07E-03	3.43E-02	6.98E-04	3.16E-05	4.56E-05	4.20E-04	7.55E-02
6047	478942.19, 3850550	4.55E-02	8.20E-03	3.50E-02	6.69E-04	3.09E-05	4.13E-04	9.94E-08	0.0898116	3.19E-02	8.20E-03	3.50E-02	6.69E-04	3.09E-05	4.50E-05	4.13E-04	7.62E-02
6048	478854.34, 3850507.36	4.61E-02	8.76E-03	3.86E-02	6.30E-04	2.98E-05	3.96E-04	9.71E-08	0.09459317	3.28E-02	8.76E-03	3.86E-02	6.30E-04	2.98E-05	4.39E-05	3.96E-04	8.13E-02
6049	478766.49, 3850464.71	4.56E-02	8.78E-03	3.93E-02	6.01E-04	2.90E-05	3.88E-04	9.58E-08	0.09472586	3.26E-02	8.78E-03	3.93E-02	6.01E-04	2.90E-05	4.32E-05	3.88E-04	8.18E-02
6050	478678.63, 3850422.06	4.51E-02	8.76E-03	3.93E-02	5.76E-04	2.83E-05	3.83E-04	9.47E-08	0.09422378	3.24E-02	8.76E-03	3.93E-02	5.76E-04	2.83E-05	4.27E-05	3.83E-04	8.15E-02
6051	478590.78, 3850379.41	4.49E-02	8.77E-03	3.96E-02	5.52E-04	2.77E-05	3.76E-04	9.36E-08	0.09427095	3.23E-02	8.77E-03	3.96E-02	5.52E-04	2.77E-05	4.22E-05	3.76E-04	8.17E-02
6052	478502.93, 3850336.77	4.46E-02	8.74E-03	3.95E-02	5.32E-04	2.72E-05	3.72E-04	9.27E-08	0.09376514	3.21E-02	8.74E-03	3.95E-02	5.32E-04	2.72E-05	4.18E-05	3.72E-04	8.13E-02
6053	478415.07, 3850294.12	4.41E-02	8.64E-03	3.91E-02	5.15E-04	2.68E-05	3.69E-04	9.19E-08	0.09267395	3.18E-02	8.64E-03	3.91E-02	5.15E-04	2.68E-05	4.15E-05	3.69E-04	8.04E-02
6054	478327.22, 3850251.47	4.38E-02	8.69E-03	3.96E-02	4.96E-04	2.62E-05	3.62E-04	9.08E-08	0.09294346	3.17E-02	8.69E-03	3.96E-02	4.96E-04	2.62E-05	4.11E-05	3.62E-04	8.09E-02
6055	478239.36, 3850208.82	4.35E-02	8.69E-03	3.99E-02	4.80E-04	2.57E-05	3.56E-04	8.99E-08	0.09295358	3.16E-02	8.69E-03	3.99E-02	4.80E-04	2.57E-05	4.06E-05	3.56E-04	8.11E-02
6056	478151.51, 3850166.18	4.34E-02	8.66E-03	4.01E-02	4.66E-04	2.53E-05	3.51E-04	8.91E-08	0.0929141	3.15E-02	8.66E-03	4.01E-02	4.66E-04	2.53E-05	4.03E-05	3.51E-04	8.11E-02
6057	478063.66, 3850123.53	4.32E-02	8.61E-03	4.02E-02	4.54E-04	2.50E-05	3.46E-04	8.84E-08	0.09288486	3.14E-02	8.61E-03	4.02E-02	4.54E-04	2.50E-05	4.00E-05	3.46E-04	8.11E-02
6058	477975.8, 3850080.88	4.24E-02	8.40E-03	3.82E-02	4.57E-04	2.54E-05	3.55E-04	8.91E-08	0.08982252	3.07E-02	8.40E-03	3.82E-02	4.57E-04	2.54E-05	3.99E-05	3.55E-04	7.82E-02
6059	477887.95, 3850038.23	4.22E-02	8.35E-03	3.79E-02	4.51E-04	2.53E-05	3.54E-04	8.88E-08	0.08922734	3.06E-02	8.35E-03	3.79E-02	4.51E-04	2.53E-05	3.96E-05	3.54E-04	7.77E-02
6060	477800.1, 3849995.59	4.17E-02	8.22E-03	3.71E-02	4.47E-04	2.53E-05	3.53E-04	8.86E-08	0.08784483	3.02E-02	8.22E-03	3.71E-02	4.47E-04	2.53E-05	3.93E-05	3.53E-04	7.64E-02
6061	477712.24, 3849952.94	4.17E-02	8.24E-03	3.72E-02	4.40E-04	2.50E-05	3.48E-04	8.81E-08	0.0880045	3.02E-02	8.24E-03	3.72E-02	4.40E-04	2.50E-05	3.90E-05	3.48E-04	7.66E-02
6062	477624.39, 3849910.29	4.13E-02	8.22E-03	3.71E-02	4.34E-04	2.48E-05	3.43E-04	8.76E-08	0.08746638	3.00E-02	8.22E-03	3.71E-02	4.34E-04	2.48E-05	3.87E-05	3.43E-04	7.62E-02
6063	477536.54, 3849867.64	4.05E-02	8.10E-03	3.65E-02	4.29E-04	2.46E-05	3.39E-04	8.71E-08	0.08584199	2.95E-02	8.10E-03	3.65E-02	4.29E-04	2.46E-05	3.83E-05	3.39E-04	7.49E-02
6064	477448.68, 3849825	4.01E-02	8.06E-03	3.64E-02	4.23E-04	2.43E-05	3.32E-04	8.63E-08	0.0853476	2.93E-02	8.06E-03	3.64E-02	4.23E-04	2.43E-05	3.80E-05	3.32E-04	7.45E-02
6065	477360.83, 3849782.35	3.98E-02	7.98E-03	3.62E-02	4.18E-04	2.40E-05	3.26E-04	8.56E-08	0.08469379	2.90E-02	7.98E-03	3.62E-02	4.18E-04	2.40E-05	3.76E-05	3.26E-04	7.40E-02
6066	477272.97, 3849739.7	3.95E-02	7.85E-03	3.61E-02	4.13E-04	2.38E-05	3.19E-04	8.50E-08	0.08417889	2.87E-02	7.85E-03	3.61E-02	4.13E-04	2.38E-05	3.73E-05	3.19E-04	7.34E-02
6067	477185.12, 3849697.05	3.95E-02	7.82E-03	3.59E-02	4.09E-04	2.35E-05	3.13E-04	8.43E-08	0.08393173	2.87E-02	7.82E-03	3.59E-02	4.09E-04	2.35E-05	3.69E-05	3.13E-04	7.32E-02
6068	477097.27, 3849654.41	3.98E-02	7.90E-03	3.63E-02	4.04E-04	2.32E-05	3.06E-04	8.35E-08	0.08471862	2.89E-02	7.90E-03	3.63E-02	4.04E-04	2.32E-05	3.66E-05	3.06E-04	7.39E-02
6069	477009.41, 3849611.76	4.05E-02	8.15E-03	3.79E-02	3.96E-04	2.27E-05	2.95E-04	8.24E-08	0.08729039	2.96E-02	8.15E-03	3.79E-02	3.96E-04	2.27E-05	3.62E-05	2.95E-04	7.64E-02
6070	476841.49, 3849530.08	4.11E-02	8.20E-03	3.90E-02	3.88E-04	2.22E-05	2.80E-04	8.08E-08	0.08889774	3.00E-02	8.20E-03	3.90E-02	3.88E-04	2.22E-05	3.55E-05	2.80E-04	7.78E-02
6071	476761.41, 3849491.05	4.12E-02	8.18E-03	3.93E-02	3.86E-04	2.20E-05	2.75E-04	8.03E-08	0.08943107	3.00E-02	8.18E-03	3.93E-02	3.86E-04	2.20E-05	3.52E-05	2.75E-04	7.83E-02
6072	476681.34, 3849452.02	4.21E-02	8.39E-03	4.10E-02	3.82E-04	2.16E-05	2.68E-04	7.95E-08	0.09219574	3.07E-02	8.39E-03	4.10E-02	3.82E-04	2.16E-05	3.48E-05	2.68E-04	8.08E-02
6073	476601.26, 3849412.99	4.38E-02	8.80E-03	4.45E-02	3.77E-04	2.13E-05	2.61E-04	7.86E-08	0.09776622	3.20E-02	8.80E-03	4.45E-02	3.77E-04	2.13E-05	3.45E-05	2.61E-04	8.60E-02
6074	476456.32, 3849353.67	4.78E-02	1.01E-02	5.33E-02	3.68E-04	2.05E-05	2.44E-04	7.66E-08	0.11180843	3.56E-02	1.01E-02	5.33E-02	3.68E-04	2.05E-05	3.39E-05	2.44E-04	9.97E-02
6075	476305.43, 3849318.83	4.60E-02	9.72E-03	5.06E-02	3.71E-04	2.05E-05	2.39E-04	7.65E-08	0.10694519	3.42E-02	9.72E-03	5.06E-02	3.71E-04	2.05E-05	3.37E-05	2.39E-04	9.52E-02
6076	476129.36, 3849289.99	4.32E-02	8.83E-03	4.98E-02	3.72E-04	2.04E-05	2.29E-04	7.60E-08	0.10249157	3.18E-02	8.83E-03	4.98E-02	3.72E-04	2.04E-05	3.35E-05	2.29E-04	9.10E-02
6077	476039.31, 3849275.68	4.22E-02	8.51E-03	4.88E-02	3.73E-04	2.03E-05	2.25E-04	7.57E-08	0.10004646	3.08E-02	8.51E-03	4.88E-02	3.73E-04	2.03E-05	3.34E-05	2.25E-04	8.88E-02
6078	475949.26, 3849261.38	4.24E-02	8.61E-03	5.07E-02	3.69E-04	2.00E-05	2.18E-04	7.47E-08	0.1022557	3.11E-02	8.61E-03	5.07E-02	3.69E-04	2.00E-05	3.32E-05	2.18E-04	9.10E-02
6079	475859.21, 3849247.08	4.10E-02	8.16E-03	4.88E-02	3.69E-04	1.99E-05	2.14E-04	7.43E-08	0.09851231	2.99E-02	8.16E-03	4.88E-02	3.69E-04	1.99E-05	3.31E-05	2.14E-04	8.74E-02
6080	475769.16, 3849232.77	4.01E-02	7.81E-03	4.69E-02	3.67E-04	1.97E-05	2.10E-04	7.37E-08	0.09547534	2.90E-02	7.81E-03	4.69E-02	3.67E-04	1.97E-05	3.29E-05	2.10E-04	8.44E-02
6081	475585.22, 3849219.27	2.77E-02	4.56E-03	2.56E-02	3.22E-04	1.78E-05	1.78E-04	6.65E-08	0.05834693	1.90E-02	4.56E-03	2.56E-02	3.22E-04	1.78E-05	3.07E-05	1.78E-04	4.97E-02
6082	475444.49, 3849150.34	4.75E-02	8.99E-03	4.84E-02	3.45E-04	1.86E-05	1.92E-04	6.96E-08	0.10549565	3.41E-02	8.99E-03	4.84E-02	3.45E-04	1.86E-05	3.17E-05	1.92E-04	9.21E-02
6083	475334.17, 3849118.71	3.86E-02	7.48E-03	3.65E-02	3.49E-04	1.86E-05	1.94E-04	6.98E-08	0.08314613	2.79E-02	7.48E-03	3.65E-02	3.49E-04	1.86E-05	3.17E-05	1.94E-04	7.25E-02
6084	475230.46, 3849060.57	4.33E-02	8.80E-03	3.66E-02	3.45E-04	1.84E-05	1.92E-04	6.91E-08	0.08926918	3.18E-02	8.80E-03	3.66E-02	3.45E-04	1.84E-05	3.13E-05	1.92E-04	7.78E-02
6085	475110.86, 3848960.97	4.61E-02	1.02E-02	4.38E-02	3.35E-04	1.79E-05	1.88E-04	6.79E-08	0.10056125	3.48E-02	1.02E-02	4.38E-02	3.35E-04	1.79E-05	3.05E-05	1.88E-04	8.93E-02
6086	475037.79, 3848896.28	4.65E-02	1.07E-02	4.55E-02	3.27E-04	1.75E-05	1.84E-04	6.69E-08	0.10320805	3.56E-02	1.07E-02	4.55E-02	3.27E-04	1.75E-05	3.00E-05	1.84E-04	9.23E-02
6087	474964.72, 3848831.59	4.73E-02	1.11E-02	4.71E-02	3.20E-04	1.71E-05	1.80E-04	6.58E-08	0.10601548	3.65E-02	1.11E-02	4.71E-02	3.20E-04	1.71E-05	2.94E-05	1.80E-04	9.52E-02
6088	474891.65, 3848766.9	4.70E-02	1.14E-02	4.70E-02	3.15E-04	1.69E-05	1.78E-04	6.52E-08	0.1058252	3.67E-02	1.14E-02	4.70E-02	3.15E-04	1.69E-05	2.89E-05	1.78E-04	9.55E-02
6089	474818.58, 3848702.22	4.73E-02	1.18E-02	4.73E-02	3.11E-04	1.67E-05	1.76E-04	6.48E-08	0.10699181	3.74E-02	1.18E-02	4.73E-02	3.11E-04	1.67E-05	2.86E-05	1.76E-04	9.71E-02
6090	474745.51, 3848637.53	4.40E-02	1.14E-02	4.28E-02	3.13E-04	1.67E-05	1.78E-04	6.53E-08	0.09867306	3.53E-02	1.14E-02	4.28E-02	3.13E-04	1.67E-05	2.85E-05	1.78E-04	9.00E-02
6091	474672.44, 3848572.84	4.37E-02	1.17E-02	4.21E-02	3.11E-04	1.65E-05	1.78E-04	0.00E+00	0.09806575	3.55E-02	1.17E-02	4.21E-02	3.11E-04	1.65E-05	2.81E-05	1.78E-04	8.98E-02
6092	474599.37, 3848508.15	4.52E-02	1.24E-02	4.34E-02	3.04E-04	1.62E-05	1.74E-04	0.00E+00	0.10144714	3.71E-02	1.24E-02	4.34E-02	3.04E-04	1.62E-05	2.77E-05	1.74E-04	9.34E-02

Chronic Hazard

6093	474526.3, 3848443.46	4.54E-02	1.28E-02	4.32E-02	3.00E-04	1.60E-05	1.72E-04	0.00E+00	0.10185676	3.76E-02	1.28E-02	4.32E-02	3.00E-04	1.60E-05	2.73E-05	1.72E-04	9.41E-02

Chronic Noncancer Hazard

Hazard Index = C_i /REL_i

Concentration (µg/m^3)

	Ci (Annual)	Chronic REL	Chronic HI
Max Unmitig	0.20	5	0.04
Max Mitigat	0.19	5	0.04

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Unmitigated PM10 Annual Concentration

Mains	Leads	BSY	IMF	CHE-WHS	Roads	Total
1.08E-03	1.23E-03	1.27E-02	1.42E-03	3.44E-03	3.44E-03	2.33E-02
1.05E-03	1.22E-03	1.23E-02	1.36E-03	3.38E-03	3.38E-03	2.27E-02
1.02E-03	1.21E-03	1.21E-02	1.32E-03	3.35E-03	3.35E-03	2.23E-02
9.79E-04	1.20E-03	1.16E-02	1.25E-03	3.26E-03	3.26E-03	2.15E-02
9.59E-04	1.20E-03	1.15E-02	1.22E-03	3.27E-03	3.27E-03	2.14E-02
9.31E-04	1.19E-03	1.12E-02	1.17E-03	3.22E-03	3.22E-03	2.09E-02
9.08E-04	1.19E-03	1.09E-02	1.14E-03	3.19E-03	3.19E-03	2.05E-02
8.87E-04	1.18E-03	1.07E-02	1.10E-03	3.16E-03	3.16E-03	2.02E-02
1.12E-03	1.21E-03	1.35E-02	1.54E-03	3.88E-03	3.88E-03	2.52E-02
1.09E-03	1.21E-03	1.32E-02	1.48E-03	3.82E-03	3.82E-03	2.46E-02
1.05E-03	1.20E-03	1.28E-02	1.41E-03	3.74E-03	3.74E-03	2.39E-02
1.02E-03	1.19E-03	1.24E-02	1.35E-03	3.67E-03	3.67E-03	2.33E-02
9.91E-04	1.19E-03	1.22E-02	1.31E-03	3.64E-03	3.64E-03	2.30E-02
9.61E-04	1.18E-03	1.18E-02	1.26E-03	3.57E-03	3.57E-03	2.24E-02
9.31E-04	1.17E-03	1.15E-02	1.20E-03	3.49E-03	3.49E-03	2.17E-02
9.16E-04	1.17E-03	1.14E-02	1.19E-03	3.50E-03	3.50E-03	2.17E-02
1.16E-03	1.20E-03	1.45E-02	1.66E-03	4.39E-03	4.39E-03	2.73E-02
1.12E-03	1.19E-03	1.40E-02	1.59E-03	4.29E-03	4.29E-03	2.65E-02
1.08E-03	1.18E-03	1.35E-02	1.51E-03	4.16E-03	4.16E-03	2.56E-02
1.05E-03	1.17E-03	1.31E-02	1.45E-03	4.07E-03	4.07E-03	2.50E-02
1.02E-03	1.17E-03	1.29E-02	1.40E-03	4.03E-03	4.03E-03	2.46E-02
9.88E-04	1.16E-03	1.25E-02	1.34E-03	3.93E-03	3.93E-03	2.38E-02
9.67E-04	1.16E-03	1.23E-02	1.30E-03	3.90E-03	3.90E-03	2.35E-02
9.40E-04	1.16E-03	1.20E-02	1.26E-03	3.83E-03	3.83E-03	2.30E-02
1.21E-03	1.18E-03	1.54E-02	1.78E-03	4.93E-03	4.93E-03	2.94E-02
1.17E-03	1.18E-03	1.50E-02	1.71E-03	4.82E-03	4.82E-03	2.87E-02
1.12E-03	1.17E-03	1.44E-02	1.62E-03	4.66E-03	4.66E-03	2.76E-02
1.09E-03	1.17E-03	1.41E-02	1.56E-03	4.57E-03	4.57E-03	2.70E-02
1.05E-03	1.16E-03	1.36E-02	1.49E-03	4.44E-03	4.44E-03	2.62E-02
1.02E-03	1.15E-03	1.33E-02	1.44E-03	4.37E-03	4.37E-03	2.56E-02
1.26E-03	1.17E-03	1.65E-02	1.92E-03	5.57E-03	5.57E-03	3.19E-02
1.21E-03	1.17E-03	1.59E-02	1.83E-03	5.39E-03	5.39E-03	3.09E-02
1.17E-03	1.16E-03	1.54E-02	1.74E-03	5.23E-03	5.23E-03	2.99E-02
1.13E-03	1.15E-03	1.50E-02	1.67E-03	5.09E-03	5.09E-03	2.91E-02
1.09E-03	1.15E-03	1.45E-02	1.60E-03	4.94E-03	4.94E-03	2.82E-02
1.06E-03	1.14E-03	1.41E-02	1.53E-03	4.82E-03	4.82E-03	2.74E-02
1.31E-03	1.16E-03	1.76E-02	2.05E-03	6.26E-03	6.26E-03	3.46E-02
1.26E-03	1.16E-03	1.70E-02	1.96E-03	6.06E-03	6.06E-03	3.35E-02
1.21E-03	1.15E-03	1.64E-02	1.86E-03	5.81E-03	5.81E-03	3.22E-02
1.16E-03	1.14E-03	1.58E-02	1.77E-03	5.60E-03	5.60E-03	3.10E-02
1.12E-03	1.13E-03	1.53E-02	1.69E-03	5.44E-03	5.44E-03	3.01E-02
1.09E-03	1.13E-03	1.48E-02	1.62E-03	5.29E-03	5.29E-03	2.92E-02
1.05E-03	1.12E-03	1.44E-02	1.55E-03	5.14E-03	5.14E-03	2.84E-02
1.04E-03	1.13E-03	1.43E-02	1.53E-03	5.13E-03	5.13E-03	2.83E-02

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Mitigated PM10 Annual Concentration

Mains	Leads	BSY	IMF	CHE-WHS	Roads	Total
1.08E-03	1.23E-03	1.27E-02	1.42E-03	1.54E-03	3.44E-03	2.14E-02
1.05E-03	1.22E-03	1.23E-02	1.36E-03	1.50E-03	3.38E-03	2.08E-02
1.02E-03	1.21E-03	1.21E-02	1.32E-03	1.48E-03	3.35E-03	2.04E-02
9.79E-04	1.20E-03	1.16E-02	1.25E-03	1.43E-03	3.26E-03	1.97E-02
9.59E-04	1.20E-03	1.15E-02	1.22E-03	1.43E-03	3.27E-03	1.95E-02
9.31E-04	1.19E-03	1.12E-02	1.17E-03	1.40E-03	3.22E-03	1.91E-02
9.08E-04	1.19E-03	1.09E-02	1.14E-03	1.38E-03	3.19E-03	1.87E-02
8.87E-04	1.18E-03	1.07E-02	1.10E-03	1.36E-03	3.16E-03	1.84E-02
1.12E-03	1.21E-03	1.35E-02	1.54E-03	1.83E-03	3.88E-03	2.31E-02
1.09E-03	1.21E-03	1.32E-02	1.48E-03	1.79E-03	3.82E-03	2.26E-02
1.05E-03	1.20E-03	1.28E-02	1.41E-03	1.74E-03	3.74E-03	2.19E-02
1.02E-03	1.19E-03	1.24E-02	1.35E-03	1.69E-03	3.67E-03	2.13E-02
9.91E-04	1.19E-03	1.22E-02	1.31E-03	1.67E-03	3.64E-03	2.10E-02
9.61E-04	1.18E-03	1.18E-02	1.26E-03	1.62E-03	3.57E-03	2.04E-02
9.31E-04	1.17E-03	1.15E-02	1.20E-03	1.57E-03	3.49E-03	1.98E-02
9.16E-04	1.17E-03	1.14E-02	1.19E-03	1.58E-03	3.50E-03	1.97E-02
1.16E-03	1.20E-03	1.45E-02	1.66E-03	2.17E-03	4.39E-03	2.50E-02
1.12E-03	1.19E-03	1.40E-02	1.59E-03	2.10E-03	4.29E-03	2.43E-02
1.08E-03	1.18E-03	1.35E-02	1.51E-03	2.02E-03	4.16E-03	2.35E-02
1.05E-03	1.17E-03	1.31E-02	1.45E-03	1.96E-03	4.07E-03	2.29E-02
1.02E-03	1.17E-03	1.29E-02	1.40E-03	1.93E-03	4.03E-03	2.25E-02
9.88E-04	1.16E-03	1.25E-02	1.34E-03	1.86E-03	3.93E-03	2.17E-02
9.67E-04	1.16E-03	1.23E-02	1.30E-03	1.84E-03	3.90E-03	2.15E-02
9.40E-04	1.16E-03	1.20E-02	1.26E-03	1.79E-03	3.83E-03	2.09E-02
1.21E-03	1.18E-03	1.54E-02	1.78E-03	2.54E-03	4.93E-03	2.70E-02
1.17E-03	1.18E-03	1.50E-02	1.71E-03	2.47E-03	4.82E-03	2.63E-02
1.12E-03	1.17E-03	1.44E-02	1.62E-03	2.36E-03	4.66E-03	2.53E-02
1.09E-03	1.17E-03	1.41E-02	1.56E-03	2.29E-03	4.57E-03	2.48E-02
1.05E-03	1.16E-03	1.36E-02	1.49E-03	2.20E-03	4.44E-03	2.39E-02
1.02E-03	1.15E-03	1.33E-02	1.44E-03	2.14E-03	4.37E-03	2.34E-02
1.26E-03	1.17E-03	1.65E-02	1.92E-03	2.99E-03	5.57E-03	2.94E-02
1.21E-03	1.17E-03	1.59E-02	1.83E-03	2.86E-03	5.39E-03	2.84E-02
1.17E-03	1.16E-03	1.54E-02	1.74E-03	2.74E-03	5.23E-03	2.74E-02
1.13E-03	1.15E-03	1.50E-02	1.67E-03	2.64E-03	5.09E-03	2.66E-02
1.09E-03	1.15E-03	1.45E-02	1.60E-03	2.53E-03	4.94E-03	2.58E-02
1.06E-03	1.14E-03	1.41E-02	1.53E-03	2.45E-03	4.82E-03	2.51E-02
1.31E-03	1.16E-03	1.76E-02	2.05E-03	3.47E-03	6.26E-03	3.19E-02
1.26E-03	1.16E-03	1.70E-02	1.96E-03	3.32E-03	6.06E-03	3.08E-02
1.21E-03	1.15E-03	1.64E-02	1.86E-03	3.15E-03	5.81E-03	2.95E-02
1.16E-03	1.14E-03	1.58E-02	1.77E-03	2.99E-03	5.60E-03	2.84E-02
1.12E-03	1.13E-03	1.53E-02	1.69E-03	2.87E-03	5.44E-03	2.75E-02
1.09E-03	1.13E-03	1.48E-02	1.62E-03	2.76E-03	5.29E-03	2.67E-02
1.05E-03	1.12E-03	1.44E-02	1.55E-03	2.65E-03	5.14E-03	2.59E-02
1.04E-03	1.13E-03	1.43E-02	1.53E-03	2.64E-03	5.13E-03	2.58E-02

1.36E-03	1.15E-03	1.87E-02	2.19E-03	7.00E-03	7.00E-03	3.74E-02	1.36E-03	1.15E-03	1.87E-02	2.19E-03	3.99E-03	7.00E-03	3.44E-02
1.30E-03	1.14E-03	1.80E-02	2.08E-03	6.69E-03	6.69E-03	3.59E-02	1.30E-03	1.14E-03	1.80E-02	2.08E-03	3.77E-03	6.69E-03	3.30E-02
1.25E-03	1.13E-03	1.73E-02	1.97E-03	6.40E-03	6.40E-03	3.44E-02	1.25E-03	1.13E-03	1.73E-02	1.97E-03	3.55E-03	6.40E-03	3.15E-02
1.20E-03	1.12E-03	1.67E-02	1.88E-03	6.18E-03	6.18E-03	3.32E-02	1.20E-03	1.12E-03	1.67E-02	1.88E-03	3.38E-03	6.18E-03	3.04E-02
1.16E-03	1.12E-03	1.62E-02	1.80E-03	5.98E-03	5.98E-03	3.22E-02	1.16E-03	1.12E-03	1.62E-02	1.80E-03	3.24E-03	5.98E-03	2.95E-02
1.12E-03	1.11E-03	1.56E-02	1.72E-03	5.79E-03	5.79E-03	3.12E-02	1.12E-03	1.11E-03	1.56E-02	1.72E-03	3.10E-03	5.79E-03	2.85E-02
1.08E-03	1.10E-03	1.50E-02	1.62E-03	5.54E-03	5.54E-03	2.98E-02	1.08E-03	1.10E-03	1.50E-02	1.62E-03	2.92E-03	5.54E-03	2.72E-02
1.07E-03	1.11E-03	1.51E-02	1.62E-03	5.60E-03	5.60E-03	3.01E-02	1.07E-03	1.11E-03	1.51E-02	1.62E-03	2.94E-03	5.60E-03	2.74E-02
1.42E-03	1.14E-03	1.99E-02	2.34E-03	7.77E-03	7.77E-03	4.03E-02	1.42E-03	1.14E-03	1.99E-02	2.34E-03	4.55E-03	7.77E-03	3.71E-02
1.36E-03	1.13E-03	1.90E-02	2.21E-03	7.39E-03	7.39E-03	3.85E-02	1.36E-03	1.13E-03	1.90E-02	2.21E-03	4.26E-03	7.39E-03	3.54E-02
1.30E-03	1.12E-03	1.83E-02	2.09E-03	7.08E-03	7.08E-03	3.70E-02	1.30E-03	1.12E-03	1.83E-02	2.09E-03	4.02E-03	7.08E-03	3.39E-02
1.25E-03	1.11E-03	1.76E-02	1.99E-03	6.77E-03	6.77E-03	3.55E-02	1.25E-03	1.11E-03	1.76E-02	1.99E-03	3.79E-03	6.77E-03	3.25E-02
1.20E-03	1.10E-03	1.70E-02	1.89E-03	6.51E-03	6.51E-03	3.42E-02	1.20E-03	1.10E-03	1.70E-02	1.89E-03	3.60E-03	6.51E-03	3.13E-02
1.16E-03	1.10E-03	1.65E-02	1.81E-03	6.32E-03	6.32E-03	3.32E-02	1.16E-03	1.10E-03	1.65E-02	1.81E-03	3.45E-03	6.32E-03	3.03E-02
1.29E-03	1.10E-03	1.85E-02	2.10E-03	7.40E-03	7.40E-03	3.78E-02	1.29E-03	1.10E-03	1.85E-02	2.10E-03	4.23E-03	7.40E-03	3.46E-02
1.24E-03	1.09E-03	1.79E-02	2.00E-03	7.13E-03	7.13E-03	3.65E-02	1.24E-03	1.09E-03	1.79E-02	2.00E-03	4.03E-03	7.13E-03	3.34E-02
1.20E-03	1.08E-03	1.73E-02	1.91E-03	6.87E-03	6.87E-03	3.53E-02	1.20E-03	1.08E-03	1.73E-02	1.91E-03	3.83E-03	6.87E-03	3.22E-02
1.34E-03	1.08E-03	1.95E-02	2.22E-03	8.09E-03	8.09E-03	4.03E-02	1.34E-03	1.08E-03	1.95E-02	2.22E-03	4.70E-03	8.09E-03	3.69E-02
1.29E-03	1.08E-03	1.89E-02	2.12E-03	7.78E-03	7.78E-03	3.89E-02	1.29E-03	1.08E-03	1.89E-02	2.12E-03	4.47E-03	7.78E-03	3.56E-02
1.24E-03	1.07E-03	1.83E-02	2.02E-03	7.50E-03	7.50E-03	3.76E-02	1.24E-03	1.07E-03	1.83E-02	2.02E-03	4.26E-03	7.50E-03	3.44E-02
1.07E-03	1.04E-03	1.64E-02	1.70E-03	6.88E-03	6.88E-03	3.40E-02	1.07E-03	1.04E-03	1.64E-02	1.70E-03	3.71E-03	6.88E-03	3.08E-02
1.04E-03	1.04E-03	1.60E-02	1.64E-03	6.69E-03	6.69E-03	3.31E-02	1.04E-03	1.04E-03	1.60E-02	1.64E-03	3.57E-03	6.69E-03	3.00E-02
1.01E-03	1.03E-03	1.56E-02	1.58E-03	6.51E-03	6.51E-03	3.22E-02	1.01E-03	1.03E-03	1.56E-02	1.58E-03	3.43E-03	6.51E-03	2.91E-02
9.85E-04	1.03E-03	1.53E-02	1.54E-03	6.38E-03	6.38E-03	3.16E-02	9.85E-04	1.03E-03	1.53E-02	1.54E-03	3.34E-03	6.38E-03	2.85E-02
1.10E-03	1.03E-03	1.72E-02	1.78E-03	7.37E-03	7.37E-03	3.58E-02	1.10E-03	1.03E-03	1.72E-02	1.78E-03	4.02E-03	7.37E-03	3.25E-02
1.07E-03	1.03E-03	1.67E-02	1.72E-03	7.18E-03	7.18E-03	3.49E-02	1.07E-03	1.03E-03	1.67E-02	1.72E-03	3.87E-03	7.18E-03	3.16E-02
1.04E-03	1.02E-03	1.63E-02	1.66E-03	6.98E-03	6.98E-03	3.40E-02	1.04E-03	1.02E-03	1.63E-02	1.66E-03	3.73E-03	6.98E-03	3.07E-02
1.01E-03	1.02E-03	1.59E-02	1.60E-03	6.79E-03	6.79E-03	3.31E-02	1.01E-03	1.02E-03	1.59E-02	1.60E-03	3.59E-03	6.79E-03	2.99E-02
1.13E-03	1.02E-03	1.80E-02	1.87E-03	7.92E-03	7.92E-03	3.78E-02	1.13E-03	1.02E-03	1.80E-02	1.87E-03	4.37E-03	7.92E-03	3.43E-02
1.09E-03	1.01E-03	1.74E-02	1.79E-03	7.63E-03	7.63E-03	3.66E-02	1.09E-03	1.01E-03	1.74E-02	1.79E-03	4.16E-03	7.63E-03	3.31E-02
1.06E-03	1.01E-03	1.70E-02	1.73E-03	7.43E-03	7.43E-03	3.56E-02	1.06E-03	1.01E-03	1.70E-02	1.73E-03	4.01E-03	7.43E-03	3.22E-02
1.03E-03	1.00E-03	1.64E-02	1.65E-03	7.17E-03	7.17E-03	3.44E-02	1.03E-03	1.00E-03	1.64E-02	1.65E-03	3.82E-03	7.17E-03	3.11E-02
1.17E-03	1.01E-03	1.88E-02	1.95E-03	8.45E-03	8.45E-03	3.98E-02	1.17E-03	1.01E-03	1.88E-02	1.95E-03	4.71E-03	8.45E-03	3.60E-02
1.13E-03	1.00E-03	1.82E-02	1.87E-03	8.16E-03	8.16E-03	3.85E-02	1.13E-03	1.00E-03	1.82E-02	1.87E-03	4.50E-03	8.16E-03	3.48E-02
1.09E-03	9.98E-04	1.77E-02	1.80E-03	7.91E-03	7.91E-03	3.74E-02	1.09E-03	9.98E-04	1.77E-02	1.80E-03	4.31E-03	7.91E-03	3.38E-02
1.06E-03	9.95E-04	1.72E-02	1.74E-03	7.70E-03	7.70E-03	3.65E-02	1.06E-03	9.95E-04	1.72E-02	1.74E-03	4.15E-03	7.70E-03	3.29E-02
1.20E-03	9.96E-04	1.96E-02	2.05E-03	9.02E-03	9.02E-03	4.19E-02	1.20E-03	9.96E-04	1.96E-02	2.05E-03	5.07E-03	9.02E-03	3.79E-02
1.16E-03	9.92E-04	1.90E-02	1.97E-03	8.72E-03	8.72E-03	4.06E-02	1.16E-03	9.92E-04	1.90E-02	1.97E-03	4.85E-03	8.72E-03	3.67E-02
1.13E-03	9.88E-04	1.84E-02	1.89E-03	8.44E-03	8.44E-03	3.93E-02	1.13E-03	9.88E-04	1.84E-02	1.89E-03	4.64E-03	8.44E-03	3.55E-02
1.09E-03	9.84E-04	1.80E-02	1.82E-03	8.19E-03	8.19E-03	3.82E-02	1.09E-03	9.84E-04	1.80E-02	1.82E-03	4.45E-03	8.19E-03	3.45E-02
1.25E-03	9.88E-04	2.05E-02	2.16E-03	9.67E-03	9.67E-03	4.43E-02	1.25E-03	9.88E-04	2.05E-02	2.16E-03	5.49E-03	9.67E-03	4.01E-02
1.20E-03	9.80E-04	1.98E-02	2.05E-03	9.26E-03	9.26E-03	4.25E-02	1.20E-03	9.80E-04	1.98E-02	2.05E-03	5.19E-03	9.26E-03	3.85E-02
1.16E-03	9.73E-04	1.90E-02	1.96E-03	8.87E-03	8.87E-03	4.09E-02	1.16E-03	9.73E-04	1.90E-02	1.96E-03	4.91E-03	8.87E-03	3.69E-02
1.13E-03	9.73E-04	1.87E-02	1.90E-03	8.69E-03	8.69E-03	4.01E-02	1.13E-03	9.73E-04	1.87E-02	1.90E-03	4.76E-03	8.69E-03	3.61E-02
1.11E-03	9.77E-04	1.85E-02	1.86E-03	8.58E-03	8.58E-03	3.96E-02	1.11E-03	9.77E-04	1.85E-02	1.86E-03	4.66E-03	8.58E-03	3.57E-02
1.09E-03	9.82E-04	1.84E-02	1.83E-03	8.51E-03	8.51E-03	3.93E-02	1.09E-03	9.82E-04	1.84E-02	1.83E-03	4.60E-03	8.51E-03	3.54E-02
1.29E-03	9.78E-04	2.14E-02	2.27E-03	1.03E-02	1.03E-02	4.66E-02	1.29E-03	9.78E-04	2.14E-02	2.27E-03	5.89E-03	1.03E-02	4.22E-02
1.24E-03	9.68E-04	2.05E-02	2.14E-03	9.78E-03	9.78E-03	4.44E-02	1.24E-03	9.68E-04	2.05E-02	2.14E-03	5.52E-03	9.78E-03	4.01E-02
1.19E-03	9.63E-04	1.98E-02	2.05E-03	9.43E-03	9.43E-03	4.29E-02	1.19E-03	9.63E-04	1.98E-02	2.05E-03	5.25E-03	9.43E-03	3.87E-02
1.17E-03	9.65E-04	1.96E-02	2.00E-03	9.27E-03	9.27E-03	4.22E-02	1.17E-03	9.65E-04	1.96E-02	2.00E-03	5.12E-03	9.27E-03	3.81E-02
1.14E-03	9.65E-04	1.92E-02	1.94E-03	9.06E-03	9.06E-03	4.13E-02	1.14E-03	9.65E-04	1.92E-02	1.94E-03	4.96E-03	9.06E-03	3.72E-02
1.12E-03	9.72E-04	1.92E-02	1.92E-03	9.02E-03	9.02E-03	4.12E-02	1.12E-03	9.72E-04	1.92E-02	1.92E-03	4.91E-03	9.02E-03	3.71E-02
1.35E-03	9.69E-04	2.24E-02	2.39E-03	1.10E-02	1.10E-02	4.90E-02	1.35E-03	9.69E-04	2.24E-02	2.39E-03	6.32E-03	1.10E-02	4.44E-02
1.27E-03	9.55E-04	2.11E-02	2.23E-03	1.03E-02	1.03E-02	4.62E-02	1.27E-03	9.55E-04	2.11E-02	2.23E-03	5.83E-03	1.03E-02	4.17E-02

1.24E-03	9.57E-04	2.08E-02	2.17E-03	1.01E-02	1.01E-02	4.53E-02	1.24E-03	9.57E-04	2.08E-02	2.17E-03	5.67E-03	1.01E-02	4.09E-02
1.21E-03	9.59E-04	2.05E-02	2.11E-03	9.91E-03	9.91E-03	4.46E-02	1.21E-03	9.59E-04	2.05E-02	2.11E-03	5.52E-03	9.91E-03	4.03E-02
1.18E-03	9.60E-04	2.02E-02	2.06E-03	9.71E-03	9.71E-03	4.38E-02	1.18E-03	9.60E-04	2.02E-02	2.06E-03	5.36E-03	9.71E-03	3.95E-02
1.16E-03	9.62E-04	1.99E-02	2.01E-03	9.54E-03	9.54E-03	4.31E-02	1.16E-03	9.62E-04	1.99E-02	2.01E-03	5.22E-03	9.54E-03	3.88E-02
1.40E-03	9.58E-04	2.31E-02	2.49E-03	1.16E-02	1.16E-02	5.11E-02	1.40E-03	9.58E-04	2.31E-02	2.49E-03	6.70E-03	1.16E-02	4.62E-02
1.33E-03	9.48E-04	2.21E-02	2.35E-03	1.10E-02	1.10E-02	4.86E-02	1.33E-03	9.48E-04	2.21E-02	2.35E-03	6.26E-03	1.10E-02	4.39E-02
1.29E-03	9.49E-04	2.17E-02	2.28E-03	1.07E-02	1.07E-02	4.77E-02	1.29E-03	9.49E-04	2.17E-02	2.28E-03	6.08E-03	1.07E-02	4.31E-02
1.26E-03	9.51E-04	2.14E-02	2.23E-03	1.05E-02	1.05E-02	4.69E-02	1.26E-03	9.51E-04	2.14E-02	2.23E-03	5.91E-03	1.05E-02	4.23E-02
1.23E-03	9.53E-04	2.11E-02	2.17E-03	1.03E-02	1.03E-02	4.62E-02	1.23E-03	9.53E-04	2.11E-02	2.17E-03	5.75E-03	1.03E-02	4.16E-02
1.20E-03	9.54E-04	2.08E-02	2.11E-03	1.01E-02	1.01E-02	4.53E-02	1.20E-03	9.54E-04	2.08E-02	2.11E-03	5.59E-03	1.01E-02	4.08E-02
1.44E-03	9.44E-04	2.36E-02	2.58E-03	1.20E-02	1.20E-02	5.25E-02	1.44E-03	9.44E-04	2.36E-02	2.58E-03	6.99E-03	1.20E-02	4.75E-02
1.39E-03	9.44E-04	2.31E-02	2.49E-03	1.17E-02	1.17E-02	5.14E-02	1.39E-03	9.44E-04	2.31E-02	2.49E-03	6.75E-03	1.17E-02	4.64E-02
1.35E-03	9.43E-04	2.27E-02	2.41E-03	1.14E-02	1.14E-02	5.02E-02	1.35E-03	9.43E-04	2.27E-02	2.41E-03	6.51E-03	1.14E-02	4.53E-02
1.31E-03	9.44E-04	2.24E-02	2.35E-03	1.12E-02	1.12E-02	4.93E-02	1.31E-03	9.44E-04	2.24E-02	2.35E-03	6.32E-03	1.12E-02	4.45E-02
1.27E-03	9.45E-04	2.20E-02	2.28E-03	1.10E-02	1.10E-02	4.85E-02	1.27E-03	9.45E-04	2.20E-02	2.28E-03	6.14E-03	1.10E-02	4.37E-02
1.24E-03	9.48E-04	2.18E-02	2.23E-03	1.08E-02	1.08E-02	4.78E-02	1.24E-03	9.48E-04	2.18E-02	2.23E-03	5.99E-03	1.08E-02	4.30E-02
1.51E-03	9.38E-04	2.45E-02	2.72E-03	1.27E-02	1.27E-02	5.51E-02	1.51E-03	9.38E-04	2.45E-02	2.72E-03	7.46E-03	1.27E-02	4.98E-02
1.46E-03	9.40E-04	2.43E-02	2.65E-03	1.25E-02	1.25E-02	5.44E-02	1.46E-03	9.40E-04	2.43E-02	2.65E-03	7.27E-03	1.25E-02	4.91E-02
1.41E-03	9.37E-04	2.37E-02	2.55E-03	1.21E-02	1.21E-02	5.29E-02	1.41E-03	9.37E-04	2.37E-02	2.55E-03	6.98E-03	1.21E-02	4.77E-02
1.37E-03	9.39E-04	2.34E-02	2.49E-03	1.19E-02	1.19E-02	5.21E-02	1.37E-03	9.39E-04	2.34E-02	2.49E-03	6.79E-03	1.19E-02	4.69E-02
1.33E-03	9.38E-04	2.30E-02	2.41E-03	1.16E-02	1.16E-02	5.09E-02	1.33E-03	9.38E-04	2.30E-02	2.41E-03	6.56E-03	1.16E-02	4.58E-02
1.30E-03	9.41E-04	2.28E-02	2.35E-03	1.14E-02	1.14E-02	5.02E-02	1.30E-03	9.41E-04	2.28E-02	2.35E-03	6.40E-03	1.14E-02	4.52E-02
1.60E-03	9.35E-04	2.57E-02	2.90E-03	1.36E-02	1.36E-02	5.83E-02	1.60E-03	9.35E-04	2.57E-02	2.90E-03	8.05E-03	1.36E-02	5.28E-02
1.54E-03	9.34E-04	2.52E-02	2.81E-03	1.33E-02	1.33E-02	5.71E-02	1.54E-03	9.34E-04	2.52E-02	2.81E-03	7.77E-03	1.33E-02	5.16E-02
1.48E-03	9.33E-04	2.48E-02	2.71E-03	1.29E-02	1.29E-02	5.57E-02	1.48E-03	9.33E-04	2.48E-02	2.71E-03	7.49E-03	1.29E-02	5.03E-02
1.44E-03	9.33E-04	2.44E-02	2.63E-03	1.27E-02	1.27E-02	5.48E-02	1.44E-03	9.33E-04	2.44E-02	2.63E-03	7.26E-03	1.27E-02	4.94E-02
1.39E-03	9.33E-04	2.40E-02	2.55E-03	1.23E-02	1.23E-02	5.36E-02	1.39E-03	9.33E-04	2.40E-02	2.55E-03	7.01E-03	1.23E-02	4.82E-02
1.35E-03	9.34E-04	2.37E-02	2.48E-03	1.21E-02	1.21E-02	5.26E-02	1.35E-03	9.34E-04	2.37E-02	2.48E-03	6.80E-03	1.21E-02	4.73E-02
1.69E-03	9.33E-04	2.68E-02	3.10E-03	1.45E-02	1.45E-02	6.16E-02	1.69E-03	9.33E-04	2.68E-02	3.10E-03	8.67E-03	1.45E-02	5.57E-02
1.63E-03	9.32E-04	2.64E-02	3.00E-03	1.42E-02	1.42E-02	6.04E-02	1.63E-03	9.32E-04	2.64E-02	3.00E-03	8.38E-03	1.42E-02	5.45E-02
1.56E-03	9.29E-04	2.59E-02	2.88E-03	1.37E-02	1.37E-02	5.87E-02	1.56E-03	9.29E-04	2.59E-02	2.88E-03	8.03E-03	1.37E-02	5.30E-02
1.51E-03	9.29E-04	2.55E-02	2.80E-03	1.35E-02	1.35E-02	5.77E-02	1.51E-03	9.29E-04	2.55E-02	2.80E-03	7.78E-03	1.35E-02	5.20E-02
1.46E-03	9.28E-04	2.50E-02	2.70E-03	1.31E-02	1.31E-02	5.63E-02	1.46E-03	9.28E-04	2.50E-02	2.70E-03	7.49E-03	1.31E-02	5.07E-02
1.41E-03	9.30E-04	2.48E-02	2.63E-03	1.28E-02	1.28E-02	5.54E-02	1.41E-03	9.30E-04	2.48E-02	2.63E-03	7.28E-03	1.28E-02	4.99E-02
1.81E-03	9.32E-04	2.82E-02	3.35E-03	1.56E-02	1.56E-02	6.55E-02	1.81E-03	9.32E-04	2.82E-02	3.35E-03	9.42E-03	1.56E-02	5.93E-02
1.73E-03	9.29E-04	2.76E-02	3.22E-03	1.51E-02	1.51E-02	6.37E-02	1.73E-03	9.29E-04	2.76E-02	3.22E-03	9.01E-03	1.51E-02	5.76E-02
1.65E-03	9.27E-04	2.71E-02	3.09E-03	1.47E-02	1.47E-02	6.20E-02	1.65E-03	9.27E-04	2.71E-02	3.09E-03	8.64E-03	1.47E-02	5.60E-02
1.59E-03	9.26E-04	2.67E-02	2.99E-03	1.43E-02	1.43E-02	6.07E-02	1.59E-03	9.26E-04	2.67E-02	2.99E-03	8.33E-03	1.43E-02	5.48E-02
1.53E-03	9.24E-04	2.62E-02	2.88E-03	1.39E-02	1.39E-02	5.93E-02	1.53E-03	9.24E-04	2.62E-02	2.88E-03	8.02E-03	1.39E-02	5.34E-02
1.48E-03	9.25E-04	2.58E-02	2.79E-03	1.36E-02	1.36E-02	5.82E-02	1.48E-03	9.25E-04	2.58E-02	2.79E-03	7.76E-03	1.36E-02	5.24E-02
1.94E-03	9.31E-04	2.94E-02	3.63E-03	1.67E-02	1.67E-02	6.93E-02	1.94E-03	9.31E-04	2.94E-02	3.63E-03	1.02E-02	1.67E-02	6.28E-02
1.84E-03	9.27E-04	2.87E-02	3.46E-03	1.61E-02	1.61E-02	6.71E-02	1.84E-03	9.27E-04	2.87E-02	3.46E-03	9.68E-03	1.61E-02	6.07E-02
1.76E-03	9.25E-04	2.83E-02	3.32E-03	1.56E-02	1.56E-02	6.55E-02	1.76E-03	9.25E-04	2.83E-02	3.32E-03	9.30E-03	1.56E-02	5.92E-02
1.69E-03	9.23E-04	2.78E-02	3.19E-03	1.52E-02	1.52E-02	6.39E-02	1.69E-03	9.23E-04	2.78E-02	3.19E-03	8.92E-03	1.52E-02	5.77E-02
1.62E-03	9.22E-04	2.73E-02	3.07E-03	1.47E-02	1.47E-02	6.24E-02	1.62E-03	9.22E-04	2.73E-02	3.07E-03	8.58E-03	1.47E-02	5.62E-02
1.57E-03	9.23E-04	2.70E-02	2.98E-03	1.45E-02	1.45E-02	6.14E-02	1.57E-03	9.23E-04	2.70E-02	2.98E-03	8.32E-03	1.45E-02	5.53E-02
2.11E-03	9.31E-04	3.09E-02	3.99E-03	1.80E-02	1.80E-02	7.39E-02	2.11E-03	9.31E-04	3.09E-02	3.99E-03	1.11E-02	1.80E-02	6.70E-02
1.98E-03	9.26E-04	3.00E-02	3.76E-03	1.72E-02	1.72E-02	7.11E-02	1.98E-03	9.26E-04	3.00E-02	3.76E-03	1.05E-02	1.72E-02	6.44E-02
1.88E-03	9.24E-04	2.95E-02	3.59E-03	1.66E-02	1.66E-02	6.92E-02	1.88E-03	9.24E-04	2.95E-02	3.59E-03	1.00E-02	1.66E-02	6.26E-02
1.80E-03	9.24E-04	2.92E-02	3.45E-03	1.62E-02	1.62E-02	6.78E-02	1.80E-03	9.24E-04	2.92E-02	3.45E-03	9.64E-03	1.62E-02	6.12E-02
1.72E-03	9.21E-04	2.86E-02	3.30E-03	1.57E-02	1.57E-02	6.59E-02	1.72E-03	9.21E-04	2.86E-02	3.30E-03	9.22E-03	1.57E-02	5.94E-02
1.66E-03	9.21E-04	2.83E-02	3.19E-03	1.53E-02	1.53E-02	6.47E-02	1.66E-03	9.21E-04	2.83E-02	3.19E-03	8.92E-03	1.53E-02	5.83E-02
2.30E-03	9.30E-04	3.23E-02	4.40E-03	1.93E-02	1.93E-02	7.86E-02	2.30E-03	9.30E-04	3.23E-02	4.40E-03	1.21E-02	1.93E-02	7.14E-02
2.15E-03	9.27E-04	3.16E-02	4.14E-03	1.85E-02	1.85E-02	7.59E-02	2.15E-03	9.27E-04	3.16E-02	4.14E-03	1.14E-02	1.85E-02	6.88E-02

2.03E-03	9.25E-04	3.09E-02	3.91E-03	1.78E-02	1.78E-02	7.35E-02	2.03E-03	9.25E-04	3.09E-02	3.91E-03	1.09E-02	1.78E-02	6.65E-02
1.93E-03	9.22E-04	3.04E-02	3.72E-03	1.73E-02	1.73E-02	7.15E-02	1.93E-03	9.22E-04	3.04E-02	3.72E-03	1.04E-02	1.73E-02	6.46E-02
1.84E-03	9.22E-04	3.00E-02	3.56E-03	1.68E-02	1.68E-02	6.98E-02	1.84E-03	9.22E-04	3.00E-02	3.56E-03	9.95E-03	1.68E-02	6.30E-02
1.76E-03	9.20E-04	2.95E-02	3.41E-03	1.63E-02	1.63E-02	6.81E-02	1.76E-03	9.20E-04	2.95E-02	3.41E-03	9.53E-03	1.63E-02	6.13E-02
2.54E-03	9.30E-04	3.40E-02	4.92E-03	2.09E-02	2.09E-02	8.42E-02	2.54E-03	9.30E-04	3.40E-02	4.92E-03	1.33E-02	2.09E-02	7.66E-02
2.35E-03	9.27E-04	3.31E-02	4.57E-03	2.00E-02	2.00E-02	8.09E-02	2.35E-03	9.27E-04	3.31E-02	4.57E-03	1.25E-02	2.00E-02	7.34E-02
2.20E-03	9.25E-04	3.24E-02	4.28E-03	1.91E-02	1.91E-02	7.81E-02	2.20E-03	9.25E-04	3.24E-02	4.28E-03	1.18E-02	1.91E-02	7.08E-02
2.07E-03	9.23E-04	3.18E-02	4.05E-03	1.84E-02	1.84E-02	7.58E-02	2.07E-03	9.23E-04	3.18E-02	4.05E-03	1.12E-02	1.84E-02	6.85E-02
1.97E-03	9.22E-04	3.14E-02	3.85E-03	1.79E-02	1.79E-02	7.40E-02	1.97E-03	9.22E-04	3.14E-02	3.85E-03	1.07E-02	1.79E-02	6.68E-02
1.87E-03	9.20E-04	3.08E-02	3.66E-03	1.73E-02	1.73E-02	7.19E-02	1.87E-03	9.20E-04	3.08E-02	3.66E-03	1.02E-02	1.73E-02	6.48E-02
2.00E-03	9.22E-04	3.24E-02	3.96E-03	1.85E-02	1.85E-02	7.63E-02	2.00E-03	9.22E-04	3.24E-02	3.96E-03	1.11E-02	1.85E-02	6.89E-02
1.90E-03	9.21E-04	3.19E-02	3.76E-03	1.79E-02	1.79E-02	7.43E-02	1.90E-03	9.21E-04	3.19E-02	3.76E-03	1.06E-02	1.79E-02	6.69E-02
1.82E-03	9.19E-04	3.14E-02	3.59E-03	1.73E-02	1.73E-02	7.24E-02	1.82E-03	9.19E-04	3.14E-02	3.59E-03	1.01E-02	1.73E-02	6.51E-02
2.14E-03	9.22E-04	3.38E-02	4.28E-03	1.97E-02	1.97E-02	8.06E-02	2.14E-03	9.22E-04	3.38E-02	4.28E-03	1.20E-02	1.97E-02	7.29E-02
2.03E-03	9.21E-04	3.33E-02	4.05E-03	1.90E-02	1.90E-02	7.83E-02	2.03E-03	9.21E-04	3.33E-02	4.05E-03	1.14E-02	1.90E-02	7.07E-02
1.92E-03	9.19E-04	3.26E-02	3.83E-03	1.83E-02	1.83E-02	7.59E-02	1.92E-03	9.19E-04	3.26E-02	3.83E-03	1.08E-02	1.83E-02	6.84E-02
2.53E-03	9.42E-04	4.39E-02	5.16E-03	2.50E-02	2.50E-02	1.02E-01	2.53E-03	9.42E-04	4.39E-02	5.16E-03	1.51E-02	2.50E-02	9.26E-02
2.36E-03	9.41E-04	4.26E-02	4.72E-03	2.35E-02	2.35E-02	9.75E-02	2.36E-03	9.41E-04	4.26E-02	4.72E-03	1.39E-02	2.35E-02	8.80E-02
2.22E-03	9.39E-04	4.14E-02	4.35E-03	2.22E-02	2.22E-02	9.33E-02	2.22E-03	9.39E-04	4.14E-02	4.35E-03	1.28E-02	2.22E-02	8.39E-02
2.10E-03	9.37E-04	4.03E-02	4.04E-03	2.10E-02	2.10E-02	8.94E-02	2.10E-03	9.37E-04	4.03E-02	4.04E-03	1.19E-02	2.10E-02	8.02E-02
2.75E-03	9.47E-04	4.60E-02	5.49E-03	2.65E-02	2.65E-02	1.08E-01	2.75E-03	9.47E-04	4.60E-02	5.49E-03	1.63E-02	2.65E-02	9.80E-02
2.55E-03	9.46E-04	4.46E-02	4.93E-03	2.46E-02	2.46E-02	1.02E-01	2.55E-03	9.46E-04	4.46E-02	4.93E-03	1.47E-02	2.46E-02	9.23E-02
2.38E-03	9.46E-04	4.33E-02	4.49E-03	2.30E-02	2.30E-02	9.72E-02	2.38E-03	9.46E-04	4.33E-02	4.49E-03	1.34E-02	2.30E-02	8.75E-02
2.23E-03	9.44E-04	4.21E-02	4.14E-03	2.16E-02	2.16E-02	9.27E-02	2.23E-03	9.44E-04	4.21E-02	4.14E-03	1.22E-02	2.16E-02	8.33E-02
3.04E-03	9.50E-04	4.83E-02	5.52E-03	2.78E-02	2.78E-02	1.13E-01	3.04E-03	9.50E-04	4.83E-02	5.52E-03	1.74E-02	2.78E-02	1.03E-01
2.78E-03	9.52E-04	4.68E-02	4.94E-03	2.54E-02	2.54E-02	1.06E-01	2.78E-03	9.52E-04	4.68E-02	4.94E-03	1.52E-02	2.54E-02	9.61E-02
2.57E-03	9.52E-04	4.53E-02	4.51E-03	2.35E-02	2.35E-02	1.00E-01	2.57E-03	9.52E-04	4.53E-02	4.51E-03	1.36E-02	2.35E-02	9.04E-02
2.40E-03	9.52E-04	4.40E-02	4.17E-03	2.19E-02	2.19E-02	9.54E-02	2.40E-03	9.52E-04	4.40E-02	4.17E-03	1.23E-02	2.19E-02	8.57E-02
3.40E-03	9.52E-04	5.08E-02	5.28E-03	2.80E-02	2.80E-02	1.16E-01	3.40E-03	9.52E-04	5.08E-02	5.28E-03	1.73E-02	2.80E-02	1.06E-01
3.07E-03	9.56E-04	4.91E-02	4.84E-03	2.52E-02	2.52E-02	1.08E-01	3.07E-03	9.56E-04	4.91E-02	4.84E-03	1.49E-02	2.52E-02	9.81E-02
2.80E-03	9.59E-04	4.76E-02	4.47E-03	2.32E-02	2.32E-02	1.02E-01	2.80E-03	9.59E-04	4.76E-02	4.47E-03	1.31E-02	2.32E-02	9.21E-02
2.59E-03	9.60E-04	4.61E-02	4.17E-03	2.15E-02	2.15E-02	9.69E-02	2.59E-03	9.60E-04	4.61E-02	4.17E-03	1.18E-02	2.15E-02	8.71E-02
1.94E-03	9.36E-04	3.87E-02	3.66E-03	1.96E-02	1.96E-02	8.45E-02	1.94E-03	9.36E-04	3.87E-02	3.66E-03	1.07E-02	1.96E-02	7.55E-02
1.85E-03	9.36E-04	3.78E-02	3.45E-03	1.88E-02	1.88E-02	8.15E-02	1.85E-03	9.36E-04	3.78E-02	3.45E-03	9.97E-03	1.88E-02	7.27E-02
1.77E-03	9.35E-04	3.69E-02	3.26E-03	1.80E-02	1.80E-02	7.88E-02	1.77E-03	9.35E-04	3.69E-02	3.26E-03	9.34E-03	1.80E-02	7.02E-02
2.05E-03	9.42E-04	4.03E-02	3.75E-03	2.00E-02	2.00E-02	8.72E-02	2.05E-03	9.42E-04	4.03E-02	3.75E-03	1.09E-02	2.00E-02	7.80E-02
1.95E-03	9.41E-04	3.93E-02	3.52E-03	1.91E-02	1.91E-02	8.38E-02	1.95E-03	9.41E-04	3.93E-02	3.52E-03	1.01E-02	1.91E-02	7.48E-02
1.86E-03	9.41E-04	3.83E-02	3.32E-03	1.82E-02	1.82E-02	8.08E-02	1.86E-03	9.41E-04	3.83E-02	3.32E-03	9.39E-03	1.82E-02	7.20E-02
1.79E-03	9.41E-04	3.74E-02	3.15E-03	1.75E-02	1.75E-02	7.81E-02	1.79E-03	9.41E-04	3.74E-02	3.15E-03	8.77E-03	1.75E-02	6.95E-02
1.72E-03	9.40E-04	3.64E-02	3.00E-03	1.68E-02	1.68E-02	7.56E-02	1.72E-03	9.40E-04	3.64E-02	3.00E-03	8.23E-03	1.68E-02	6.71E-02
1.65E-03	9.43E-04	3.56E-02	2.87E-03	1.62E-02	1.62E-02	7.34E-02	1.65E-03	9.43E-04	3.56E-02	2.87E-03	7.74E-03	1.62E-02	6.50E-02
1.60E-03	9.46E-04	3.48E-02	2.74E-03	1.56E-02	1.56E-02	7.14E-02	1.60E-03	9.46E-04	3.48E-02	2.74E-03	7.30E-03	1.56E-02	6.30E-02
1.54E-03	9.49E-04	3.40E-02	2.63E-03	1.51E-02	1.51E-02	6.94E-02	1.54E-03	9.49E-04	3.40E-02	2.63E-03	6.90E-03	1.51E-02	6.12E-02
2.18E-03	9.49E-04	4.20E-02	3.79E-03	2.02E-02	2.02E-02	8.93E-02	2.18E-03	9.49E-04	4.20E-02	3.79E-03	1.08E-02	2.02E-02	7.99E-02
2.07E-03	9.49E-04	4.09E-02	3.56E-03	1.91E-02	1.91E-02	8.57E-02	2.07E-03	9.49E-04	4.09E-02	3.56E-03	9.97E-03	1.91E-02	7.66E-02
1.97E-03	9.48E-04	3.98E-02	3.37E-03	1.82E-02	1.82E-02	8.26E-02	1.97E-03	9.48E-04	3.98E-02	3.37E-03	9.23E-03	1.82E-02	7.36E-02
1.88E-03	9.48E-04	3.88E-02	3.20E-03	1.74E-02	1.74E-02	7.97E-02	1.88E-03	9.48E-04	3.88E-02	3.20E-03	8.59E-03	1.74E-02	7.08E-02
1.80E-03	9.47E-04	3.78E-02	3.05E-03	1.67E-02	1.67E-02	7.70E-02	1.80E-03	9.47E-04	3.78E-02	3.05E-03	8.03E-03	1.67E-02	6.83E-02
1.73E-03	9.49E-04	3.69E-02	2.91E-03	1.61E-02	1.61E-02	7.47E-02	1.73E-03	9.49E-04	3.69E-02	2.91E-03	7.53E-03	1.61E-02	6.61E-02
1.66E-03	9.47E-04	3.59E-02	2.79E-03	1.55E-02	1.55E-02	7.23E-02	1.66E-03	9.47E-04	3.59E-02	2.79E-03	7.11E-03	1.55E-02	6.39E-02
1.61E-03	9.55E-04	3.52E-02	2.67E-03	1.51E-02	1.51E-02	7.06E-02	1.61E-03	9.55E-04	3.52E-02	2.67E-03	6.69E-03	1.51E-02	6.22E-02
2.34E-03	9.58E-04	4.39E-02	3.81E-03	1.99E-02	1.99E-02	9.08E-02	2.34E-03	9.58E-04	4.39E-02	3.81E-03	1.04E-02	1.99E-02	8.13E-02
2.20E-03	9.58E-04	4.26E-02	3.60E-03	1.88E-02	1.88E-02	8.71E-02	2.20E-03	9.58E-04	4.26E-02	3.60E-03	9.54E-03	1.88E-02	7.78E-02
2.08E-03	9.56E-04	4.14E-02	3.41E-03	1.79E-02	1.79E-02	8.38E-02	2.08E-03	9.56E-04	4.14E-02	3.41E-03	8.82E-03	1.79E-02	7.47E-02

1.98E-03	9.56E-04	4.03E-02	3.24E-03	1.72E-02	1.72E-02	8.09E-02	1.98E-03	9.56E-04	4.03E-02	3.24E-03	8.19E-03	1.72E-02	7.19E-02
1.89E-03	9.54E-04	3.92E-02	3.10E-03	1.65E-02	1.65E-02	7.81E-02	1.89E-03	9.54E-04	3.92E-02	3.10E-03	7.66E-03	1.65E-02	6.93E-02
1.81E-03	9.55E-04	3.82E-02	2.96E-03	1.59E-02	1.59E-02	7.57E-02	1.81E-03	9.55E-04	3.82E-02	2.96E-03	7.19E-03	1.59E-02	6.70E-02
1.74E-03	9.58E-04	3.73E-02	2.83E-03	1.54E-02	1.54E-02	7.36E-02	1.74E-03	9.58E-04	3.73E-02	2.83E-03	6.76E-03	1.54E-02	6.50E-02
1.68E-03	9.60E-04	3.64E-02	2.71E-03	1.49E-02	1.49E-02	7.15E-02	1.68E-03	9.60E-04	3.64E-02	2.71E-03	6.39E-03	1.49E-02	6.30E-02
2.52E-03	9.67E-04	4.59E-02	3.88E-03	1.92E-02	1.92E-02	9.16E-02	2.52E-03	9.67E-04	4.59E-02	3.88E-03	9.57E-03	1.92E-02	8.20E-02
2.35E-03	9.66E-04	4.45E-02	3.67E-03	1.82E-02	1.82E-02	8.79E-02	2.35E-03	9.66E-04	4.45E-02	3.67E-03	8.81E-03	1.82E-02	7.85E-02
2.22E-03	9.66E-04	4.32E-02	3.48E-03	1.74E-02	1.74E-02	8.47E-02	2.22E-03	9.66E-04	4.32E-02	3.48E-03	8.16E-03	1.74E-02	7.54E-02
2.10E-03	9.65E-04	4.19E-02	3.31E-03	1.67E-02	1.67E-02	8.17E-02	2.10E-03	9.65E-04	4.19E-02	3.31E-03	7.61E-03	1.67E-02	7.26E-02
2.00E-03	9.64E-04	4.07E-02	3.16E-03	1.61E-02	1.61E-02	7.90E-02	2.00E-03	9.64E-04	4.07E-02	3.16E-03	7.13E-03	1.61E-02	7.01E-02
1.91E-03	9.64E-04	3.96E-02	3.02E-03	1.55E-02	1.55E-02	7.66E-02	1.91E-03	9.64E-04	3.96E-02	3.02E-03	6.71E-03	1.55E-02	6.78E-02
1.83E-03	9.65E-04	3.86E-02	2.89E-03	1.51E-02	1.51E-02	7.44E-02	1.83E-03	9.65E-04	3.86E-02	2.89E-03	6.33E-03	1.51E-02	6.57E-02
1.75E-03	9.66E-04	3.76E-02	2.77E-03	1.46E-02	1.46E-02	7.23E-02	1.75E-03	9.66E-04	3.76E-02	2.77E-03	6.00E-03	1.46E-02	6.37E-02
2.73E-03	9.76E-04	4.81E-02	4.02E-03	1.81E-02	1.81E-02	9.21E-02	2.73E-03	9.76E-04	4.81E-02	4.02E-03	8.45E-03	1.81E-02	8.24E-02
2.54E-03	9.75E-04	4.65E-02	3.79E-03	1.74E-02	1.74E-02	8.85E-02	2.54E-03	9.75E-04	4.65E-02	3.79E-03	7.86E-03	1.74E-02	7.90E-02
2.37E-03	9.75E-04	4.50E-02	3.59E-03	1.67E-02	1.67E-02	8.53E-02	2.37E-03	9.75E-04	4.50E-02	3.59E-03	7.35E-03	1.67E-02	7.59E-02
2.23E-03	9.74E-04	4.36E-02	3.41E-03	1.61E-02	1.61E-02	8.24E-02	2.23E-03	9.74E-04	4.36E-02	3.41E-03	6.89E-03	1.61E-02	7.32E-02
2.12E-03	9.74E-04	4.24E-02	3.25E-03	1.56E-02	1.56E-02	7.98E-02	2.12E-03	9.74E-04	4.24E-02	3.25E-03	6.49E-03	1.56E-02	7.07E-02
2.01E-03	9.73E-04	4.11E-02	3.10E-03	1.51E-02	1.51E-02	7.73E-02	2.01E-03	9.73E-04	4.11E-02	3.10E-03	6.14E-03	1.51E-02	6.84E-02
1.92E-03	9.75E-04	4.00E-02	2.96E-03	1.47E-02	1.47E-02	7.52E-02	1.92E-03	9.75E-04	4.00E-02	2.96E-03	5.82E-03	1.47E-02	6.64E-02
1.84E-03	9.75E-04	3.89E-02	2.84E-03	1.43E-02	1.43E-02	7.31E-02	1.84E-03	9.75E-04	3.89E-02	2.84E-03	5.53E-03	1.43E-02	6.44E-02
1.08E-03	9.23E-04	2.45E-02	1.88E-03	1.17E-02	1.17E-02	5.17E-02	1.08E-03	9.23E-04	2.45E-02	1.88E-03	5.23E-03	1.17E-02	4.53E-02
1.06E-03	9.20E-04	2.41E-02	1.83E-03	1.14E-02	1.14E-02	5.07E-02	1.06E-03	9.20E-04	2.41E-02	1.83E-03	5.07E-03	1.14E-02	4.44E-02
1.04E-03	9.19E-04	2.37E-02	1.79E-03	1.12E-02	1.12E-02	4.98E-02	1.04E-03	9.19E-04	2.37E-02	1.79E-03	4.92E-03	1.12E-02	4.36E-02
1.11E-03	9.25E-04	2.52E-02	1.92E-03	1.20E-02	1.20E-02	5.31E-02	1.11E-03	9.25E-04	2.52E-02	1.92E-03	5.33E-03	1.20E-02	4.64E-02
1.09E-03	9.22E-04	2.48E-02	1.87E-03	1.17E-02	1.17E-02	5.20E-02	1.09E-03	9.22E-04	2.48E-02	1.87E-03	5.16E-03	1.17E-02	4.55E-02
1.07E-03	9.20E-04	2.43E-02	1.82E-03	1.15E-02	1.15E-02	5.11E-02	1.07E-03	9.20E-04	2.43E-02	1.82E-03	4.99E-03	1.15E-02	4.46E-02
1.05E-03	9.17E-04	2.39E-02	1.78E-03	1.12E-02	1.12E-02	5.01E-02	1.05E-03	9.17E-04	2.39E-02	1.78E-03	4.84E-03	1.12E-02	4.37E-02
1.03E-03	9.19E-04	2.36E-02	1.73E-03	1.10E-02	1.10E-02	4.93E-02	1.03E-03	9.19E-04	2.36E-02	1.73E-03	4.69E-03	1.10E-02	4.30E-02
1.13E-03	9.28E-04	2.59E-02	1.96E-03	1.22E-02	1.22E-02	5.43E-02	1.13E-03	9.28E-04	2.59E-02	1.96E-03	5.41E-03	1.22E-02	4.75E-02
1.11E-03	9.25E-04	2.54E-02	1.91E-03	1.19E-02	1.19E-02	5.32E-02	1.11E-03	9.25E-04	2.54E-02	1.91E-03	5.23E-03	1.19E-02	4.65E-02
1.09E-03	9.22E-04	2.50E-02	1.86E-03	1.17E-02	1.17E-02	5.22E-02	1.09E-03	9.22E-04	2.50E-02	1.86E-03	5.06E-03	1.17E-02	4.56E-02
1.07E-03	9.21E-04	2.46E-02	1.81E-03	1.14E-02	1.14E-02	5.13E-02	1.07E-03	9.21E-04	2.46E-02	1.81E-03	4.89E-03	1.14E-02	4.47E-02
1.06E-03	9.19E-04	2.42E-02	1.76E-03	1.12E-02	1.12E-02	5.04E-02	1.06E-03	9.19E-04	2.42E-02	1.76E-03	4.74E-03	1.12E-02	4.39E-02
1.04E-03	9.18E-04	2.38E-02	1.72E-03	1.10E-02	1.10E-02	4.95E-02	1.04E-03	9.18E-04	2.38E-02	1.72E-03	4.59E-03	1.10E-02	4.31E-02
1.02E-03	9.16E-04	2.34E-02	1.68E-03	1.08E-02	1.08E-02	4.86E-02	1.02E-03	9.16E-04	2.34E-02	1.68E-03	4.45E-03	1.08E-02	4.23E-02
1.01E-03	9.16E-04	2.31E-02	1.64E-03	1.06E-02	1.06E-02	4.78E-02	1.01E-03	9.16E-04	2.31E-02	1.64E-03	4.31E-03	1.06E-02	4.16E-02
1.14E-03	9.29E-04	2.61E-02	1.95E-03	1.22E-02	1.22E-02	5.45E-02	1.14E-03	9.29E-04	2.61E-02	1.95E-03	5.28E-03	1.22E-02	4.76E-02
1.12E-03	9.26E-04	2.57E-02	1.89E-03	1.19E-02	1.19E-02	5.34E-02	1.12E-03	9.26E-04	2.57E-02	1.89E-03	5.10E-03	1.19E-02	4.66E-02
1.10E-03	9.24E-04	2.52E-02	1.84E-03	1.16E-02	1.16E-02	5.24E-02	1.10E-03	9.24E-04	2.52E-02	1.84E-03	4.92E-03	1.16E-02	4.57E-02
1.08E-03	9.21E-04	2.48E-02	1.79E-03	1.14E-02	1.14E-02	5.13E-02	1.08E-03	9.21E-04	2.48E-02	1.79E-03	4.76E-03	1.14E-02	4.47E-02
1.06E-03	9.21E-04	2.44E-02	1.75E-03	1.12E-02	1.12E-02	5.05E-02	1.06E-03	9.21E-04	2.44E-02	1.75E-03	4.60E-03	1.12E-02	4.39E-02
1.04E-03	9.19E-04	2.40E-02	1.70E-03	1.09E-02	1.09E-02	4.96E-02	1.04E-03	9.19E-04	2.40E-02	1.70E-03	4.46E-03	1.09E-02	4.31E-02
1.03E-03	9.15E-04	2.36E-02	1.66E-03	1.07E-02	1.07E-02	4.86E-02	1.03E-03	9.15E-04	2.36E-02	1.66E-03	4.32E-03	1.07E-02	4.22E-02
1.17E-03	9.35E-04	2.69E-02	1.98E-03	1.24E-02	1.24E-02	5.57E-02	1.17E-03	9.35E-04	2.69E-02	1.98E-03	5.30E-03	1.24E-02	4.86E-02
1.14E-03	9.30E-04	2.64E-02	1.92E-03	1.21E-02	1.21E-02	5.45E-02	1.14E-03	9.30E-04	2.64E-02	1.92E-03	5.11E-03	1.21E-02	4.75E-02
1.12E-03	9.29E-04	2.59E-02	1.87E-03	1.18E-02	1.18E-02	5.35E-02	1.12E-03	9.29E-04	2.59E-02	1.87E-03	4.93E-03	1.18E-02	4.66E-02
1.10E-03	9.26E-04	2.55E-02	1.82E-03	1.15E-02	1.15E-02	5.24E-02	1.10E-03	9.26E-04	2.55E-02	1.82E-03	4.76E-03	1.15E-02	4.56E-02
1.08E-03	9.22E-04	2.50E-02	1.78E-03	1.13E-02	1.13E-02	5.13E-02	1.08E-03	9.22E-04	2.50E-02	1.78E-03	4.60E-03	1.13E-02	4.46E-02
1.07E-03	9.22E-04	2.46E-02	1.73E-03	1.11E-02	1.11E-02	5.05E-02	1.07E-03	9.22E-04	2.46E-02	1.73E-03	4.45E-03	1.11E-02	4.38E-02
1.05E-03	9.23E-04	2.42E-02	1.68E-03	1.09E-02	1.09E-02	4.97E-02	1.05E-03	9.23E-04	2.42E-02	1.68E-03	4.30E-03	1.09E-02	4.31E-02
1.25E-03	9.43E-04	2.86E-02	2.14E-03	1.31E-02	1.31E-02	5.92E-02	1.25E-03	9.43E-04	2.86E-02	2.14E-03	5.74E-03	1.31E-02	5.18E-02
1.22E-03	9.40E-04	2.81E-02	2.08E-03	1.28E-02	1.28E-02	5.79E-02	1.22E-03	9.40E-04	2.81E-02	2.08E-03	5.51E-03	1.28E-02	5.06E-02
1.20E-03	9.40E-04	2.76E-02	2.01E-03	1.25E-02	1.25E-02	5.67E-02	1.20E-03	9.40E-04	2.76E-02	2.01E-03	5.29E-03	1.25E-02	4.95E-02

1.17E-03	9.36E-04	2.71E-02	1.95E-03	1.22E-02	1.22E-02	5.55E-02	1.17E-03	9.36E-04	2.71E-02	1.95E-03	5.10E-03	1.22E-02	4.84E-02
1.15E-03	9.34E-04	2.66E-02	1.90E-03	1.19E-02	1.19E-02	5.44E-02	1.15E-03	9.34E-04	2.66E-02	1.90E-03	4.91E-03	1.19E-02	4.74E-02
1.13E-03	9.32E-04	2.61E-02	1.85E-03	1.17E-02	1.17E-02	5.33E-02	1.13E-03	9.32E-04	2.61E-02	1.85E-03	4.73E-03	1.17E-02	4.64E-02
1.11E-03	9.28E-04	2.56E-02	1.80E-03	1.14E-02	1.14E-02	5.22E-02	1.11E-03	9.28E-04	2.56E-02	1.80E-03	4.57E-03	1.14E-02	4.54E-02
1.09E-03	9.29E-04	2.52E-02	1.75E-03	1.12E-02	1.12E-02	5.14E-02	1.09E-03	9.29E-04	2.52E-02	1.75E-03	4.41E-03	1.12E-02	4.46E-02
1.07E-03	9.28E-04	2.48E-02	1.71E-03	1.10E-02	1.10E-02	5.05E-02	1.07E-03	9.28E-04	2.48E-02	1.71E-03	4.26E-03	1.10E-02	4.38E-02
1.32E-03	9.49E-04	3.00E-02	2.25E-03	1.36E-02	1.36E-02	6.17E-02	1.32E-03	9.49E-04	3.00E-02	2.25E-03	5.97E-03	1.36E-02	5.41E-02
1.29E-03	9.48E-04	2.94E-02	2.18E-03	1.32E-02	1.32E-02	6.03E-02	1.29E-03	9.48E-04	2.94E-02	2.18E-03	5.71E-03	1.32E-02	5.28E-02
1.26E-03	9.46E-04	2.88E-02	2.11E-03	1.29E-02	1.29E-02	5.89E-02	1.26E-03	9.46E-04	2.88E-02	2.11E-03	5.48E-03	1.29E-02	5.15E-02
1.23E-03	9.44E-04	2.83E-02	2.04E-03	1.26E-02	1.26E-02	5.77E-02	1.23E-03	9.44E-04	2.83E-02	2.04E-03	5.25E-03	1.26E-02	5.04E-02
1.21E-03	9.43E-04	2.78E-02	1.98E-03	1.23E-02	1.23E-02	5.65E-02	1.21E-03	9.43E-04	2.78E-02	1.98E-03	5.05E-03	1.23E-02	4.93E-02
1.18E-03	9.41E-04	2.73E-02	1.93E-03	1.20E-02	1.20E-02	5.54E-02	1.18E-03	9.41E-04	2.73E-02	1.93E-03	4.85E-03	1.20E-02	4.82E-02
1.36E-03	9.53E-04	3.08E-02	2.29E-03	1.36E-02	1.36E-02	6.27E-02	1.36E-03	9.53E-04	3.08E-02	2.29E-03	5.90E-03	1.36E-02	5.50E-02
1.33E-03	9.54E-04	3.03E-02	2.21E-03	1.33E-02	1.33E-02	6.14E-02	1.33E-03	9.54E-04	3.03E-02	2.21E-03	5.63E-03	1.33E-02	5.37E-02
1.29E-03	9.51E-04	2.96E-02	2.14E-03	1.29E-02	1.29E-02	5.99E-02	1.29E-03	9.51E-04	2.96E-02	2.14E-03	5.40E-03	1.29E-02	5.23E-02
1.27E-03	9.51E-04	2.91E-02	2.07E-03	1.26E-02	1.26E-02	5.86E-02	1.27E-03	9.51E-04	2.91E-02	2.07E-03	5.17E-03	1.26E-02	5.12E-02
2.03E-03	1.40E-03	3.29E-02	1.43E-03	2.36E-02	2.36E-02	8.48E-02	2.03E-03	1.40E-03	3.29E-02	1.43E-03	1.29E-03	2.36E-02	6.26E-02
1.39E-03	1.30E-03	2.47E-02	1.14E-03	1.47E-02	1.47E-02	5.79E-02	1.39E-03	1.30E-03	2.47E-02	1.14E-03	1.28E-03	1.47E-02	4.45E-02
1.98E-03	1.36E-03	3.30E-02	1.48E-03	2.31E-02	2.31E-02	8.40E-02	1.98E-03	1.36E-03	3.30E-02	1.48E-03	1.34E-03	2.31E-02	6.23E-02
1.91E-03	1.36E-03	3.20E-02	1.43E-03	2.19E-02	2.19E-02	8.05E-02	1.91E-03	1.36E-03	3.20E-02	1.43E-03	1.33E-03	2.19E-02	6.00E-02
1.84E-03	1.37E-03	3.11E-02	1.39E-03	2.08E-02	2.08E-02	7.72E-02	1.84E-03	1.37E-03	3.11E-02	1.39E-03	1.32E-03	2.08E-02	5.78E-02
1.78E-03	1.38E-03	3.02E-02	1.35E-03	1.98E-02	1.98E-02	7.43E-02	1.78E-03	1.38E-03	3.02E-02	1.35E-03	1.30E-03	1.98E-02	5.58E-02
2.09E-03	1.41E-03	3.33E-02	1.44E-03	2.44E-02	2.44E-02	8.70E-02	2.09E-03	1.41E-03	3.33E-02	1.44E-03	1.28E-03	2.44E-02	6.39E-02
2.01E-03	1.43E-03	3.22E-02	1.39E-03	2.29E-02	2.29E-02	8.28E-02	2.01E-03	1.43E-03	3.22E-02	1.39E-03	1.26E-03	2.29E-02	6.12E-02
1.93E-03	1.42E-03	3.13E-02	1.35E-03	2.15E-02	2.15E-02	7.89E-02	1.93E-03	1.42E-03	3.13E-02	1.35E-03	1.25E-03	2.15E-02	5.87E-02
1.87E-03	1.43E-03	3.03E-02	1.31E-03	2.03E-02	2.03E-02	7.56E-02	1.87E-03	1.43E-03	3.03E-02	1.31E-03	1.23E-03	2.03E-02	5.65E-02
2.70E-03	1.45E-03	3.89E-02	1.61E-03	3.52E-02	3.52E-02	1.15E-01	2.70E-03	1.45E-03	3.89E-02	1.61E-03	1.32E-03	3.52E-02	8.13E-02
2.55E-03	1.46E-03	3.75E-02	1.55E-03	3.18E-02	3.18E-02	1.07E-01	2.55E-03	1.46E-03	3.75E-02	1.55E-03	1.28E-03	3.18E-02	7.61E-02
2.43E-03	1.46E-03	3.61E-02	1.50E-03	2.89E-02	2.89E-02	9.92E-02	2.43E-03	1.46E-03	3.61E-02	1.50E-03	1.25E-03	2.89E-02	7.16E-02
2.32E-03	1.47E-03	3.48E-02	1.45E-03	2.64E-02	2.64E-02	9.29E-02	2.32E-03	1.47E-03	3.48E-02	1.45E-03	1.22E-03	2.64E-02	6.77E-02
2.21E-03	1.47E-03	3.36E-02	1.41E-03	2.44E-02	2.44E-02	8.76E-02	2.21E-03	1.47E-03	3.36E-02	1.41E-03	1.20E-03	2.44E-02	6.43E-02
2.12E-03	1.48E-03	3.25E-02	1.36E-03	2.28E-02	2.28E-02	8.30E-02	2.12E-03	1.48E-03	3.25E-02	1.36E-03	1.18E-03	2.28E-02	6.14E-02
2.04E-03	1.48E-03	3.14E-02	1.32E-03	2.14E-02	2.14E-02	7.90E-02	2.04E-03	1.48E-03	3.14E-02	1.32E-03	1.17E-03	2.14E-02	5.88E-02
1.96E-03	1.49E-03	3.05E-02	1.29E-03	2.02E-02	2.02E-02	7.56E-02	1.96E-03	1.49E-03	3.05E-02	1.29E-03	1.16E-03	2.02E-02	5.65E-02
2.92E-03	1.51E-03	3.95E-02	1.58E-03	3.29E-02	3.29E-02	1.11E-01	2.92E-03	1.51E-03	3.95E-02	1.58E-03	1.22E-03	3.29E-02	7.96E-02
2.75E-03	1.52E-03	3.79E-02	1.52E-03	2.96E-02	2.96E-02	1.03E-01	2.75E-03	1.52E-03	3.79E-02	1.52E-03	1.18E-03	2.96E-02	7.45E-02
2.60E-03	1.52E-03	3.64E-02	1.47E-03	2.70E-02	2.70E-02	9.60E-02	2.60E-03	1.52E-03	3.64E-02	1.47E-03	1.15E-03	2.70E-02	7.02E-02
2.47E-03	1.53E-03	3.51E-02	1.42E-03	2.49E-02	2.49E-02	9.03E-02	2.47E-03	1.53E-03	3.51E-02	1.42E-03	1.13E-03	2.49E-02	6.65E-02
2.35E-03	1.53E-03	3.38E-02	1.38E-03	2.31E-02	2.31E-02	8.54E-02	2.35E-03	1.53E-03	3.38E-02	1.38E-03	1.11E-03	2.31E-02	6.34E-02
2.25E-03	1.53E-03	3.27E-02	1.34E-03	2.17E-02	2.17E-02	8.12E-02	2.25E-03	1.53E-03	3.27E-02	1.34E-03	1.10E-03	2.17E-02	6.06E-02
2.15E-03	1.54E-03	3.16E-02	1.30E-03	2.05E-02	2.05E-02	7.76E-02	2.15E-03	1.54E-03	3.16E-02	1.30E-03	1.09E-03	2.05E-02	5.81E-02
2.07E-03	1.55E-03	3.05E-02	1.26E-03	1.95E-02	1.95E-02	7.44E-02	2.07E-03	1.55E-03	3.05E-02	1.26E-03	1.08E-03	1.95E-02	5.60E-02
3.19E-03	1.58E-03	4.01E-02	1.56E-03	2.72E-02	2.72E-02	1.01E-01	3.19E-03	1.58E-03	4.01E-02	1.56E-03	1.08E-03	2.72E-02	7.47E-02
2.99E-03	1.59E-03	3.84E-02	1.51E-03	2.53E-02	2.53E-02	9.51E-02	2.99E-03	1.59E-03	3.84E-02	1.51E-03	1.06E-03	2.53E-02	7.09E-02
2.81E-03	1.59E-03	3.68E-02	1.46E-03	2.37E-02	2.37E-02	9.01E-02	2.81E-03	1.59E-03	3.68E-02	1.46E-03	1.04E-03	2.37E-02	6.74E-02
2.66E-03	1.59E-03	3.53E-02	1.41E-03	2.23E-02	2.23E-02	8.57E-02	2.66E-03	1.59E-03	3.53E-02	1.41E-03	1.02E-03	2.23E-02	6.44E-02
2.52E-03	1.60E-03	3.40E-02	1.36E-03	2.11E-02	2.11E-02	8.18E-02	2.52E-03	1.60E-03	3.40E-02	1.36E-03	1.01E-03	2.11E-02	6.16E-02
2.40E-03	1.60E-03	3.28E-02	1.32E-03	2.01E-02	2.01E-02	7.83E-02	2.40E-03	1.60E-03	3.28E-02	1.32E-03	1.01E-03	2.01E-02	5.92E-02
3.50E-03	1.64E-03	4.08E-02	1.56E-03	2.24E-02	2.24E-02	9.23E-02	3.50E-03	1.64E-03	4.08E-02	1.56E-03	9.63E-04	2.24E-02	7.08E-02
3.26E-03	1.65E-03	3.89E-02	1.51E-03	2.16E-02	2.16E-02	8.85E-02	3.26E-03	1.65E-03	3.89E-02	1.51E-03	9.51E-04	2.16E-02	6.78E-02
3.05E-03	1.66E-03	3.71E-02	1.46E-03	2.08E-02	2.08E-02	8.48E-02	3.05E-03	1.66E-03	3.71E-02	1.46E-03	9.41E-04	2.08E-02	6.50E-02
2.87E-03	1.67E-03	3.55E-02	1.41E-03	2.00E-02	2.00E-02	8.15E-02	2.87E-03	1.67E-03	3.55E-02	1.41E-03	9.33E-04	2.00E-02	6.24E-02
2.71E-03	1.67E-03	3.41E-02	1.36E-03	1.93E-02	1.93E-02	7.84E-02	2.71E-03	1.67E-03	3.41E-02	1.36E-03	9.27E-04	1.93E-02	6.00E-02
2.57E-03	1.67E-03	3.28E-02	1.32E-03	1.86E-02	1.86E-02	7.56E-02	2.57E-03	1.67E-03	3.28E-02	1.32E-03	9.25E-04	1.86E-02	5.79E-02

4.07E-03	2.58E-03	2.47E-02	1.47E-03	1.67E-02	1.67E-02	6.61E-02	4.07E-03	2.58E-03	2.47E-02	1.47E-03	6.19E-04	1.67E-02	5.00E-02
3.74E-03	2.60E-03	2.38E-02	1.38E-03	1.64E-02	1.64E-02	6.44E-02	3.74E-03	2.60E-03	2.38E-02	1.38E-03	6.17E-04	1.64E-02	4.86E-02
4.19E-03	2.85E-03	2.25E-02	1.47E-03	1.70E-02	1.70E-02	6.50E-02	4.19E-03	2.85E-03	2.25E-02	1.47E-03	5.93E-04	1.70E-02	4.86E-02
3.84E-03	2.86E-03	2.18E-02	1.38E-03	1.68E-02	1.68E-02	6.34E-02	3.84E-03	2.86E-03	2.18E-02	1.38E-03	5.90E-04	1.68E-02	4.72E-02
4.31E-03	3.17E-03	2.07E-02	1.48E-03	1.75E-02	1.75E-02	6.47E-02	4.31E-03	3.17E-03	2.07E-02	1.48E-03	5.69E-04	1.75E-02	4.78E-02
1.85E-03	1.12E-02	4.83E-03	2.51E-04	2.50E-02	2.50E-02	6.81E-02	1.85E-03	1.12E-02	4.83E-03	2.51E-04	3.24E-04	2.50E-02	4.34E-02
2.03E-03	1.22E-02	4.80E-03	2.50E-04	2.42E-02	2.42E-02	6.77E-02	2.03E-03	1.22E-02	4.80E-03	2.50E-04	3.24E-04	2.42E-02	4.38E-02
2.24E-03	1.34E-02	4.78E-03	2.49E-04	2.35E-02	2.35E-02	6.75E-02	2.24E-03	1.34E-02	4.78E-03	2.49E-04	3.23E-04	2.35E-02	4.44E-02
2.51E-03	1.46E-02	4.76E-03	2.48E-04	2.28E-02	2.28E-02	6.78E-02	2.51E-03	1.46E-02	4.76E-03	2.48E-04	3.22E-04	2.28E-02	4.53E-02
1.60E-03	9.85E-03	4.66E-03	2.40E-04	2.45E-02	2.45E-02	6.53E-02	1.60E-03	9.85E-03	4.66E-03	2.40E-04	3.15E-04	2.45E-02	4.11E-02
1.72E-03	1.06E-02	4.63E-03	2.39E-04	2.38E-02	2.38E-02	6.47E-02	1.72E-03	1.06E-02	4.63E-03	2.39E-04	3.15E-04	2.38E-02	4.13E-02
1.87E-03	1.15E-02	4.61E-03	2.39E-04	2.31E-02	2.31E-02	6.44E-02	1.87E-03	1.15E-02	4.61E-03	2.39E-04	3.15E-04	2.31E-02	4.16E-02
2.06E-03	1.26E-02	4.59E-03	2.38E-04	2.24E-02	2.24E-02	6.43E-02	2.06E-03	1.26E-02	4.59E-03	2.38E-04	3.15E-04	2.24E-02	4.22E-02
1.13E-03	6.86E-03	4.59E-03	2.27E-04	2.71E-02	2.71E-02	6.69E-02	1.13E-03	6.86E-03	4.59E-03	2.27E-04	3.02E-04	2.71E-02	4.02E-02
1.19E-03	7.26E-03	4.57E-03	2.28E-04	2.63E-02	2.63E-02	6.58E-02	1.19E-03	7.26E-03	4.57E-03	2.28E-04	3.03E-04	2.63E-02	3.98E-02
1.25E-03	7.72E-03	4.55E-03	2.29E-04	2.55E-02	2.55E-02	6.47E-02	1.25E-03	7.72E-03	4.55E-03	2.29E-04	3.04E-04	2.55E-02	3.95E-02
1.33E-03	8.27E-03	4.54E-03	2.30E-04	2.47E-02	2.47E-02	6.37E-02	1.33E-03	8.27E-03	4.54E-03	2.30E-04	3.05E-04	2.47E-02	3.93E-02
1.41E-03	8.81E-03	4.51E-03	2.30E-04	2.40E-02	2.40E-02	6.30E-02	1.41E-03	8.81E-03	4.51E-03	2.30E-04	3.06E-04	2.40E-02	3.93E-02
1.51E-03	9.48E-03	4.49E-03	2.30E-04	2.33E-02	2.33E-02	6.23E-02	1.51E-03	9.48E-03	4.49E-03	2.30E-04	3.07E-04	2.33E-02	3.93E-02
1.62E-03	1.02E-02	4.46E-03	2.30E-04	2.27E-02	2.27E-02	6.18E-02	1.62E-03	1.02E-02	4.46E-03	2.30E-04	3.07E-04	2.27E-02	3.95E-02
1.75E-03	1.10E-02	4.44E-03	2.30E-04	2.20E-02	2.20E-02	6.15E-02	1.75E-03	1.10E-02	4.44E-03	2.30E-04	3.08E-04	2.20E-02	3.98E-02
1.04E-03	6.34E-03	4.44E-03	2.18E-04	2.65E-02	2.65E-02	6.51E-02	1.04E-03	6.34E-03	4.44E-03	2.18E-04	2.94E-04	2.65E-02	3.89E-02
1.09E-03	6.72E-03	4.43E-03	2.19E-04	2.56E-02	2.56E-02	6.37E-02	1.09E-03	6.72E-03	4.43E-03	2.19E-04	2.95E-04	2.56E-02	3.84E-02
1.14E-03	7.11E-03	4.41E-03	2.20E-04	2.49E-02	2.49E-02	6.27E-02	1.14E-03	7.11E-03	4.41E-03	2.20E-04	2.95E-04	2.49E-02	3.81E-02
1.20E-03	7.53E-03	4.39E-03	2.20E-04	2.42E-02	2.42E-02	6.18E-02	1.20E-03	7.53E-03	4.39E-03	2.20E-04	2.96E-04	2.42E-02	3.79E-02
1.27E-03	7.98E-03	4.37E-03	2.20E-04	2.36E-02	2.36E-02	6.11E-02	1.27E-03	7.98E-03	4.37E-03	2.20E-04	2.97E-04	2.36E-02	3.78E-02
1.35E-03	8.54E-03	4.35E-03	2.21E-04	2.29E-02	2.29E-02	6.03E-02	1.35E-03	8.54E-03	4.35E-03	2.21E-04	2.98E-04	2.29E-02	3.77E-02
1.43E-03	9.14E-03	4.33E-03	2.21E-04	2.23E-02	2.23E-02	5.98E-02	1.43E-03	9.14E-03	4.33E-03	2.21E-04	2.99E-04	2.23E-02	3.77E-02
1.53E-03	9.80E-03	4.31E-03	2.21E-04	2.17E-02	2.17E-02	5.93E-02	1.53E-03	9.80E-03	4.31E-03	2.21E-04	3.00E-04	2.17E-02	3.79E-02
9.66E-04	5.90E-03	4.29E-03	2.09E-04	2.62E-02	2.62E-02	6.37E-02	9.66E-04	5.90E-03	4.29E-03	2.09E-04	2.85E-04	2.62E-02	3.78E-02
1.01E-03	6.23E-03	4.29E-03	2.10E-04	2.53E-02	2.53E-02	6.23E-02	1.01E-03	6.23E-03	4.29E-03	2.10E-04	2.86E-04	2.53E-02	3.73E-02
1.05E-03	6.54E-03	4.27E-03	2.11E-04	2.46E-02	2.46E-02	6.14E-02	1.05E-03	6.54E-03	4.27E-03	2.11E-04	2.87E-04	2.46E-02	3.70E-02
1.10E-03	6.91E-03	4.26E-03	2.11E-04	2.40E-02	2.40E-02	6.05E-02	1.10E-03	6.91E-03	4.26E-03	2.11E-04	2.87E-04	2.40E-02	3.68E-02
1.15E-03	7.29E-03	4.24E-03	2.12E-04	2.34E-02	2.34E-02	5.97E-02	1.15E-03	7.29E-03	4.24E-03	2.12E-04	2.88E-04	2.34E-02	3.66E-02
1.22E-03	7.78E-03	4.23E-03	2.13E-04	2.27E-02	2.27E-02	5.89E-02	1.22E-03	7.78E-03	4.23E-03	2.13E-04	2.90E-04	2.27E-02	3.64E-02
1.28E-03	8.28E-03	4.21E-03	2.13E-04	2.21E-02	2.21E-02	5.81E-02	1.28E-03	8.28E-03	4.21E-03	2.13E-04	2.91E-04	2.21E-02	3.64E-02
1.36E-03	8.80E-03	4.18E-03	2.13E-04	2.15E-02	2.15E-02	5.76E-02	1.36E-03	8.80E-03	4.18E-03	2.13E-04	2.92E-04	2.15E-02	3.64E-02
9.02E-04	5.50E-03	4.15E-03	2.01E-04	2.61E-02	2.61E-02	6.30E-02	9.02E-04	5.50E-03	4.15E-03	2.01E-04	2.77E-04	2.61E-02	3.72E-02
9.38E-04	5.79E-03	4.15E-03	2.02E-04	2.52E-02	2.52E-02	6.16E-02	9.38E-04	5.79E-03	4.15E-03	2.02E-04	2.78E-04	2.52E-02	3.66E-02
9.74E-04	6.08E-03	4.14E-03	2.03E-04	2.46E-02	2.46E-02	6.06E-02	9.74E-04	6.08E-03	4.14E-03	2.03E-04	2.78E-04	2.46E-02	3.63E-02
1.02E-03	6.39E-03	4.13E-03	2.03E-04	2.39E-02	2.39E-02	5.96E-02	1.02E-03	6.39E-03	4.13E-03	2.03E-04	2.79E-04	2.39E-02	3.60E-02
1.06E-03	6.75E-03	4.12E-03	2.04E-04	2.32E-02	2.32E-02	5.86E-02	1.06E-03	6.75E-03	4.12E-03	2.04E-04	2.80E-04	2.32E-02	3.57E-02
1.11E-03	7.14E-03	4.11E-03	2.05E-04	2.26E-02	2.26E-02	5.77E-02	1.11E-03	7.14E-03	4.11E-03	2.05E-04	2.82E-04	2.26E-02	3.54E-02
1.16E-03	7.55E-03	4.09E-03	2.06E-04	2.19E-02	2.19E-02	5.69E-02	1.16E-03	7.55E-03	4.09E-03	2.06E-04	2.83E-04	2.19E-02	3.52E-02
1.22E-03	7.98E-03	4.07E-03	2.06E-04	2.14E-02	2.14E-02	5.63E-02	1.22E-03	7.98E-03	4.07E-03	2.06E-04	2.84E-04	2.14E-02	3.52E-02
8.47E-04	5.16E-03	4.02E-03	1.94E-04	2.64E-02	2.64E-02	6.30E-02	8.47E-04	5.16E-03	4.02E-03	1.94E-04	2.70E-04	2.64E-02	3.69E-02
8.77E-04	5.41E-03	4.02E-03	1.94E-04	2.56E-02	2.56E-02	6.17E-02	8.77E-04	5.41E-03	4.02E-03	1.94E-04	2.70E-04	2.56E-02	3.64E-02
9.09E-04	5.66E-03	4.01E-03	1.95E-04	2.48E-02	2.48E-02	6.03E-02	9.09E-04	5.66E-03	4.01E-03	1.95E-04	2.71E-04	2.48E-02	3.58E-02
9.45E-04	5.95E-03	4.01E-03	1.96E-04	2.40E-02	2.40E-02	5.91E-02	9.45E-04	5.95E-03	4.01E-03	1.96E-04	2.72E-04	2.40E-02	3.54E-02
9.84E-04	6.28E-03	4.01E-03	1.97E-04	2.32E-02	2.32E-02	5.79E-02	9.84E-04	6.28E-03	4.01E-03	1.97E-04	2.73E-04	2.32E-02	3.50E-02
1.02E-03	6.60E-03	4.01E-03	1.98E-04	2.24E-02	2.24E-02	5.66E-02	1.02E-03	6.60E-03	4.01E-03	1.98E-04	2.75E-04	2.24E-02	3.45E-02
1.07E-03	6.93E-03	3.99E-03	1.99E-04	2.19E-02	2.19E-02	5.59E-02	1.07E-03	6.93E-03	3.99E-03	1.99E-04	2.76E-04	2.19E-02	3.43E-02
1.11E-03	7.29E-03	3.97E-03	1.99E-04	2.13E-02	2.13E-02	5.52E-02	1.11E-03	7.29E-03	3.97E-03	1.99E-04	2.77E-04	2.13E-02	3.41E-02
8.00E-04	4.87E-03	3.90E-03	1.87E-04	2.69E-02	2.69E-02	6.36E-02	8.00E-04	4.87E-03	3.90E-03	1.87E-04	2.63E-04	2.69E-02	3.69E-02

8.26E-04	5.10E-03	3.90E-03	1.88E-04	2.58E-02	2.58E-02	6.17E-02	8.26E-04	5.10E-03	3.90E-03	1.88E-04	2.64E-04	2.58E-02	3.61E-02
8.54E-04	5.33E-03	3.90E-03	1.89E-04	2.50E-02	2.50E-02	6.03E-02	8.54E-04	5.33E-03	3.90E-03	1.89E-04	2.64E-04	2.50E-02	3.55E-02
8.85E-04	5.59E-03	3.90E-03	1.90E-04	2.41E-02	2.41E-02	5.88E-02	8.85E-04	5.59E-03	3.90E-03	1.90E-04	2.65E-04	2.41E-02	3.49E-02
9.15E-04	5.85E-03	3.91E-03	1.91E-04	2.32E-02	2.32E-02	5.72E-02	9.15E-04	5.85E-03	3.91E-03	1.91E-04	2.67E-04	2.32E-02	3.43E-02
9.47E-04	6.11E-03	3.90E-03	1.92E-04	2.24E-02	2.24E-02	5.60E-02	9.47E-04	6.11E-03	3.90E-03	1.92E-04	2.68E-04	2.24E-02	3.38E-02
9.82E-04	6.38E-03	3.89E-03	1.92E-04	2.18E-02	2.18E-02	5.51E-02	9.82E-04	6.38E-03	3.89E-03	1.92E-04	2.69E-04	2.18E-02	3.35E-02
1.01E-03	6.64E-03	3.87E-03	1.93E-04	2.11E-02	2.11E-02	5.40E-02	1.01E-03	6.64E-03	3.87E-03	1.93E-04	2.70E-04	2.11E-02	3.31E-02
7.59E-04	4.62E-03	3.78E-03	1.81E-04	2.74E-02	2.74E-02	6.42E-02	7.59E-04	4.62E-03	3.78E-03	1.81E-04	2.57E-04	2.74E-02	3.70E-02
7.81E-04	4.81E-03	3.78E-03	1.82E-04	2.64E-02	2.64E-02	6.23E-02	7.81E-04	4.81E-03	3.78E-03	1.82E-04	2.57E-04	2.64E-02	3.62E-02
8.06E-04	5.02E-03	3.79E-03	1.83E-04	2.54E-02	2.54E-02	6.05E-02	8.06E-04	5.02E-03	3.79E-03	1.83E-04	2.58E-04	2.54E-02	3.54E-02
8.31E-04	5.24E-03	3.80E-03	1.84E-04	2.43E-02	2.43E-02	5.86E-02	8.31E-04	5.24E-03	3.80E-03	1.84E-04	2.59E-04	2.43E-02	3.46E-02
8.51E-04	5.43E-03	3.81E-03	1.85E-04	2.31E-02	2.31E-02	5.65E-02	8.51E-04	5.43E-03	3.81E-03	1.85E-04	2.61E-04	2.31E-02	3.36E-02
8.66E-04	5.49E-03	3.81E-03	1.86E-04	2.18E-02	2.18E-02	5.39E-02	8.66E-04	5.49E-03	3.81E-03	1.86E-04	2.63E-04	2.18E-02	3.24E-02
8.79E-04	5.58E-03	3.80E-03	1.87E-04	2.08E-02	2.08E-02	5.21E-02	8.79E-04	5.58E-03	3.80E-03	1.87E-04	2.64E-04	2.08E-02	3.15E-02
8.94E-04	5.66E-03	3.79E-03	1.87E-04	2.00E-02	2.00E-02	5.06E-02	8.94E-04	5.66E-03	3.79E-03	1.87E-04	2.66E-04	2.00E-02	3.08E-02
3.15E-03	2.81E-03	1.58E-02	9.15E-04	1.32E-03	1.32E-03	2.53E-02	3.15E-03	2.81E-03	1.58E-02	9.15E-04	4.34E-04	1.32E-03	2.45E-02
2.90E-03	2.80E-03	1.50E-02	8.78E-04	1.33E-03	1.33E-03	2.43E-02	2.90E-03	2.80E-03	1.50E-02	8.78E-04	4.51E-04	1.33E-03	2.34E-02
2.68E-03	2.78E-03	1.43E-02	8.43E-04	1.32E-03	1.32E-03	2.32E-02	2.68E-03	2.78E-03	1.43E-02	8.43E-04	4.66E-04	1.32E-03	2.24E-02
2.50E-03	2.76E-03	1.35E-02	8.12E-04	1.32E-03	1.32E-03	2.22E-02	2.50E-03	2.76E-03	1.35E-02	8.12E-04	4.77E-04	1.32E-03	2.14E-02
2.32E-03	2.72E-03	1.26E-02	7.77E-04	1.29E-03	1.29E-03	2.10E-02	2.32E-03	2.72E-03	1.26E-02	7.77E-04	4.83E-04	1.29E-03	2.02E-02
3.61E-03	2.66E-03	1.75E-02	9.67E-04	1.35E-03	1.35E-03	2.75E-02	3.61E-03	2.66E-03	1.75E-02	9.67E-04	4.37E-04	1.35E-03	2.66E-02
3.26E-03	2.64E-03	1.64E-02	9.24E-04	1.35E-03	1.35E-03	2.60E-02	3.26E-03	2.64E-03	1.64E-02	9.24E-04	4.56E-04	1.35E-03	2.51E-02
2.95E-03	2.61E-03	1.53E-02	8.83E-04	1.34E-03	1.34E-03	2.44E-02	2.95E-03	2.61E-03	1.53E-02	8.83E-04	4.74E-04	1.34E-03	2.35E-02
2.70E-03	2.57E-03	1.42E-02	8.43E-04	1.32E-03	1.32E-03	2.29E-02	2.70E-03	2.57E-03	1.42E-02	8.43E-04	4.88E-04	1.32E-03	2.21E-02
2.50E-03	2.55E-03	1.34E-02	8.11E-04	1.32E-03	1.32E-03	2.19E-02	2.50E-03	2.55E-03	1.34E-02	8.11E-04	5.03E-04	1.32E-03	2.11E-02
4.23E-03	2.50E-03	1.88E-02	1.02E-03	1.36E-03	1.36E-03	2.93E-02	4.23E-03	2.50E-03	1.88E-02	1.02E-03	4.40E-04	1.36E-03	2.84E-02
3.71E-03	2.46E-03	1.73E-02	9.63E-04	1.35E-03	1.35E-03	2.72E-02	3.71E-03	2.46E-03	1.73E-02	9.63E-04	4.59E-04	1.35E-03	2.63E-02
3.31E-03	2.44E-03	1.61E-02	9.20E-04	1.34E-03	1.34E-03	2.55E-02	3.31E-03	2.44E-03	1.61E-02	9.20E-04	4.79E-04	1.34E-03	2.46E-02
3.01E-03	2.42E-03	1.52E-02	8.84E-04	1.34E-03	1.34E-03	2.42E-02	3.01E-03	2.42E-03	1.52E-02	8.84E-04	4.98E-04	1.34E-03	2.33E-02
2.74E-03	2.39E-03	1.42E-02	8.50E-04	1.34E-03	1.34E-03	2.29E-02	2.74E-03	2.39E-03	1.42E-02	8.50E-04	5.13E-04	1.34E-03	2.20E-02
2.50E-03	2.35E-03	1.31E-02	8.07E-04	1.31E-03	1.31E-03	2.13E-02	2.50E-03	2.35E-03	1.31E-02	8.07E-04	5.21E-04	1.31E-03	2.05E-02
2.32E-03	2.32E-03	1.24E-02	7.77E-04	1.30E-03	1.30E-03	2.04E-02	2.32E-03	2.32E-03	1.24E-02	7.77E-04	5.24E-04	1.30E-03	1.96E-02
3.45E-03	2.28E-03	1.63E-02	9.36E-04	1.36E-03	1.36E-03	2.57E-02	3.45E-03	2.28E-03	1.63E-02	9.36E-04	5.01E-04	1.36E-03	2.48E-02
3.09E-03	2.26E-03	1.52E-02	8.97E-04	1.36E-03	1.36E-03	2.41E-02	3.09E-03	2.26E-03	1.52E-02	8.97E-04	5.19E-04	1.36E-03	2.33E-02
2.85E-03	2.26E-03	1.46E-02	8.76E-04	1.38E-03	1.38E-03	2.33E-02	2.85E-03	2.26E-03	1.46E-02	8.76E-04	5.37E-04	1.38E-03	2.25E-02
2.60E-03	2.22E-03	1.35E-02	8.36E-04	1.36E-03	1.36E-03	2.19E-02	2.60E-03	2.22E-03	1.35E-02	8.36E-04	5.44E-04	1.36E-03	2.11E-02
4.18E-03	5.87E-03	1.55E-02	1.24E-03	2.01E-02	2.01E-02	6.70E-02	4.18E-03	5.87E-03	1.55E-02	1.24E-03	4.96E-04	2.01E-02	4.74E-02
3.88E-03	6.03E-03	1.50E-02	1.15E-03	1.98E-02	1.98E-02	6.56E-02	3.88E-03	6.03E-03	1.50E-02	1.15E-03	4.94E-04	1.98E-02	4.63E-02
4.82E-03	8.24E-03	1.49E-02	1.26E-03	2.18E-02	2.18E-02	7.27E-02	4.82E-03	8.24E-03	1.49E-02	1.26E-03	4.81E-04	2.18E-02	5.14E-02
4.41E-03	8.39E-03	1.44E-02	1.15E-03	2.12E-02	2.12E-02	7.08E-02	4.41E-03	8.39E-03	1.44E-02	1.15E-03	4.79E-04	2.12E-02	5.00E-02
8.07E-04	9.45E-04	1.78E-02	1.23E-03	8.21E-03	8.21E-03	3.72E-02	8.07E-04	9.45E-04	1.78E-02	1.23E-03	3.18E-03	8.21E-03	3.22E-02
8.19E-04	9.40E-04	1.82E-02	1.24E-03	8.37E-03	8.37E-03	3.79E-02	8.19E-04	9.40E-04	1.82E-02	1.24E-03	3.20E-03	8.37E-03	3.28E-02
8.10E-04	9.40E-04	1.79E-02	1.22E-03	8.24E-03	8.24E-03	3.74E-02	8.10E-04	9.40E-04	1.79E-02	1.22E-03	3.13E-03	8.24E-03	3.23E-02
8.33E-04	9.34E-04	1.86E-02	1.26E-03	8.51E-03	8.51E-03	3.86E-02	8.33E-04	9.34E-04	1.86E-02	1.26E-03	3.22E-03	8.51E-03	3.33E-02
8.23E-04	9.36E-04	1.83E-02	1.24E-03	8.39E-03	8.39E-03	3.81E-02	8.23E-04	9.36E-04	1.83E-02	1.24E-03	3.15E-03	8.39E-03	3.29E-02
8.47E-04	9.31E-04	1.90E-02	1.28E-03	8.66E-03	8.66E-03	3.94E-02	8.47E-04	9.31E-04	1.90E-02	1.28E-03	3.23E-03	8.66E-03	3.39E-02
8.36E-04	9.31E-04	1.87E-02	1.25E-03	8.53E-03	8.53E-03	3.88E-02	8.36E-04	9.31E-04	1.87E-02	1.25E-03	3.16E-03	8.53E-03	3.34E-02
8.82E-04	9.25E-04	1.99E-02	1.35E-03	9.06E-03	9.06E-03	4.12E-02	8.82E-04	9.25E-04	1.99E-02	1.35E-03	3.40E-03	9.06E-03	3.56E-02
8.71E-04	9.26E-04	1.96E-02	1.32E-03	8.91E-03	8.91E-03	4.06E-02	8.71E-04	9.26E-04	1.96E-02	1.32E-03	3.32E-03	8.91E-03	3.50E-02
8.60E-04	9.27E-04	1.94E-02	1.29E-03	8.78E-03	8.78E-03	4.00E-02	8.60E-04	9.27E-04	1.94E-02	1.29E-03	3.23E-03	8.78E-03	3.45E-02
8.97E-04	9.22E-04	2.04E-02	1.36E-03	9.18E-03	9.18E-03	4.19E-02	8.97E-04	9.22E-04	2.04E-02	1.36E-03	3.40E-03	9.18E-03	3.61E-02
8.85E-04	9.23E-04	2.01E-02	1.34E-03	9.03E-03	9.03E-03	4.13E-02	8.85E-04	9.23E-04	2.01E-02	1.34E-03	3.31E-03	9.03E-03	3.55E-02
9.13E-04	9.21E-04	2.08E-02	1.38E-03	9.29E-03	9.29E-03	4.26E-02	9.13E-04	9.21E-04	2.08E-02	1.38E-03	3.37E-03	9.29E-03	3.67E-02
9.01E-04	9.22E-04	2.05E-02	1.35E-03	9.14E-03	9.14E-03	4.19E-02	9.01E-04	9.22E-04	2.05E-02	1.35E-03	3.29E-03	9.14E-03	3.61E-02

9.30E-04	9.21E-04	2.12E-02	1.39E-03	9.38E-03	9.38E-03	4.32E-02	9.30E-04	9.21E-04	2.12E-02	1.39E-03	3.34E-03	9.38E-03	3.72E-02
9.17E-04	9.22E-04	2.09E-02	1.36E-03	9.23E-03	9.23E-03	4.26E-02	9.17E-04	9.22E-04	2.09E-02	1.36E-03	3.25E-03	9.23E-03	3.66E-02
1.05E-03	9.52E-04	2.38E-02	1.46E-03	9.78E-03	9.78E-03	4.69E-02	1.05E-03	9.52E-04	2.38E-02	1.46E-03	2.88E-03	9.78E-03	4.00E-02
1.03E-03	9.50E-04	2.34E-02	1.43E-03	9.68E-03	9.68E-03	4.62E-02	1.03E-03	9.50E-04	2.34E-02	1.43E-03	2.81E-03	9.68E-03	3.93E-02
1.02E-03	9.48E-04	2.30E-02	1.40E-03	9.58E-03	9.58E-03	4.55E-02	1.02E-03	9.48E-04	2.30E-02	1.40E-03	2.74E-03	9.58E-03	3.87E-02
1.07E-03	9.63E-04	2.43E-02	1.47E-03	9.85E-03	9.85E-03	4.75E-02	1.07E-03	9.63E-04	2.43E-02	1.47E-03	2.77E-03	9.85E-03	4.04E-02
1.05E-03	9.60E-04	2.38E-02	1.44E-03	9.75E-03	9.75E-03	4.68E-02	1.05E-03	9.60E-04	2.38E-02	1.44E-03	2.71E-03	9.75E-03	3.97E-02
1.04E-03	9.59E-04	2.34E-02	1.40E-03	9.68E-03	9.68E-03	4.61E-02	1.04E-03	9.59E-04	2.34E-02	1.40E-03	2.64E-03	9.68E-03	3.91E-02
1.10E-03	9.77E-04	2.47E-02	1.48E-03	9.93E-03	9.93E-03	4.81E-02	1.10E-03	9.77E-04	2.47E-02	1.48E-03	2.66E-03	9.93E-03	4.08E-02
1.08E-03	9.74E-04	2.42E-02	1.44E-03	9.86E-03	9.86E-03	4.74E-02	1.08E-03	9.74E-04	2.42E-02	1.44E-03	2.60E-03	9.86E-03	4.02E-02
1.06E-03	9.70E-04	2.38E-02	1.41E-03	9.78E-03	9.78E-03	4.68E-02	1.06E-03	9.70E-04	2.38E-02	1.41E-03	2.54E-03	9.78E-03	3.95E-02
1.04E-03	9.68E-04	2.33E-02	1.38E-03	9.71E-03	9.71E-03	4.61E-02	1.04E-03	9.68E-04	2.33E-02	1.38E-03	2.48E-03	9.71E-03	3.89E-02
1.12E-03	9.93E-04	2.51E-02	1.49E-03	1.00E-02	1.00E-02	4.88E-02	1.12E-03	9.93E-04	2.51E-02	1.49E-03	2.55E-03	1.00E-02	4.13E-02
1.10E-03	9.89E-04	2.46E-02	1.45E-03	9.98E-03	9.98E-03	4.81E-02	1.10E-03	9.89E-04	2.46E-02	1.45E-03	2.49E-03	9.98E-03	4.06E-02
1.09E-03	9.85E-04	2.41E-02	1.41E-03	9.92E-03	9.92E-03	4.75E-02	1.09E-03	9.85E-04	2.41E-02	1.41E-03	2.43E-03	9.92E-03	4.00E-02
1.07E-03	9.81E-04	2.37E-02	1.38E-03	9.85E-03	9.85E-03	4.68E-02	1.07E-03	9.81E-04	2.37E-02	1.38E-03	2.38E-03	9.85E-03	3.93E-02
1.15E-03	1.01E-03	2.55E-02	1.49E-03	1.02E-02	1.02E-02	4.95E-02	1.15E-03	1.01E-03	2.55E-02	1.49E-03	2.43E-03	1.02E-02	4.18E-02
1.13E-03	1.01E-03	2.50E-02	1.45E-03	1.01E-02	1.01E-02	4.88E-02	1.13E-03	1.01E-03	2.50E-02	1.45E-03	2.38E-03	1.01E-02	4.11E-02
1.11E-03	1.00E-03	2.45E-02	1.42E-03	1.01E-02	1.01E-02	4.82E-02	1.11E-03	1.00E-03	2.45E-02	1.42E-03	2.33E-03	1.01E-02	4.04E-02
1.09E-03	9.97E-04	2.40E-02	1.38E-03	1.00E-02	1.00E-02	4.76E-02	1.09E-03	9.97E-04	2.40E-02	1.38E-03	2.28E-03	1.00E-02	3.98E-02
1.18E-03	1.03E-03	2.59E-02	1.49E-03	1.04E-02	1.04E-02	5.03E-02	1.18E-03	1.03E-03	2.59E-02	1.49E-03	2.31E-03	1.04E-02	4.23E-02
1.16E-03	1.02E-03	2.54E-02	1.45E-03	1.03E-02	1.03E-02	4.97E-02	1.16E-03	1.02E-03	2.54E-02	1.45E-03	2.27E-03	1.03E-02	4.16E-02
1.14E-03	1.02E-03	2.49E-02	1.42E-03	1.03E-02	1.03E-02	4.90E-02	1.14E-03	1.02E-03	2.49E-02	1.42E-03	2.22E-03	1.03E-02	4.10E-02
1.28E-03	1.10E-03	2.70E-02	1.48E-03	1.13E-02	1.13E-02	5.36E-02	1.28E-03	1.10E-03	2.70E-02	1.48E-03	1.97E-03	1.13E-02	4.42E-02
1.26E-03	1.09E-03	2.64E-02	1.44E-03	1.14E-02	1.14E-02	5.29E-02	1.26E-03	1.09E-03	2.64E-02	1.44E-03	1.94E-03	1.14E-02	4.35E-02
1.23E-03	1.09E-03	2.58E-02	1.40E-03	1.14E-02	1.14E-02	5.23E-02	1.23E-03	1.09E-03	2.58E-02	1.40E-03	1.91E-03	1.14E-02	4.29E-02
1.32E-03	1.12E-03	2.74E-02	1.47E-03	1.19E-02	1.19E-02	5.51E-02	1.32E-03	1.12E-03	2.74E-02	1.47E-03	1.87E-03	1.19E-02	4.51E-02
1.30E-03	1.12E-03	2.68E-02	1.43E-03	1.19E-02	1.19E-02	5.45E-02	1.30E-03	1.12E-03	2.68E-02	1.43E-03	1.84E-03	1.19E-02	4.44E-02
1.27E-03	1.12E-03	2.61E-02	1.39E-03	1.19E-02	1.19E-02	5.38E-02	1.27E-03	1.12E-03	2.61E-02	1.39E-03	1.81E-03	1.19E-02	4.37E-02
1.36E-03	1.15E-03	2.77E-02	1.46E-03	1.26E-02	1.26E-02	5.69E-02	1.36E-03	1.15E-03	2.77E-02	1.46E-03	1.77E-03	1.26E-02	4.61E-02
1.33E-03	1.15E-03	2.71E-02	1.42E-03	1.26E-02	1.26E-02	5.62E-02	1.33E-03	1.15E-03	2.71E-02	1.42E-03	1.74E-03	1.26E-02	4.53E-02
1.31E-03	1.15E-03	2.64E-02	1.38E-03	1.26E-02	1.26E-02	5.55E-02	1.31E-03	1.15E-03	2.64E-02	1.38E-03	1.72E-03	1.26E-02	4.46E-02
4.40E-04	2.28E-03	2.23E-03	1.07E-04	9.26E-03	9.26E-03	2.36E-02	4.40E-04	2.28E-03	2.23E-03	1.07E-04	1.62E-04	9.26E-03	1.45E-02
4.62E-04	2.40E-03	2.24E-03	1.08E-04	9.03E-03	9.03E-03	2.33E-02	4.62E-04	2.40E-03	2.24E-03	1.08E-04	1.63E-04	9.03E-03	1.44E-02
4.69E-04	2.43E-03	2.25E-03	1.08E-04	8.93E-03	8.93E-03	2.31E-02	4.69E-04	2.43E-03	2.25E-03	1.08E-04	1.63E-04	8.93E-03	1.44E-02
4.77E-04	2.49E-03	2.26E-03	1.08E-04	8.86E-03	8.86E-03	2.31E-02	4.77E-04	2.49E-03	2.26E-03	1.08E-04	1.64E-04	8.86E-03	1.44E-02
4.85E-04	2.52E-03	2.26E-03	1.08E-04	8.76E-03	8.76E-03	2.29E-02	4.85E-04	2.52E-03	2.26E-03	1.08E-04	1.64E-04	8.76E-03	1.43E-02
4.94E-04	2.58E-03	2.27E-03	1.09E-04	8.69E-03	8.69E-03	2.28E-02	4.94E-04	2.58E-03	2.27E-03	1.09E-04	1.64E-04	8.69E-03	1.43E-02
5.03E-04	2.63E-03	2.28E-03	1.09E-04	8.60E-03	8.60E-03	2.27E-02	5.03E-04	2.63E-03	2.28E-03	1.09E-04	1.65E-04	8.60E-03	1.43E-02
4.29E-04	2.19E-03	2.17E-03	1.05E-04	8.43E-03	8.43E-03	2.18E-02	4.29E-04	2.19E-03	2.17E-03	1.05E-04	1.59E-04	8.43E-03	1.35E-02
4.49E-04	2.30E-03	2.19E-03	1.05E-04	8.28E-03	8.28E-03	2.16E-02	4.49E-04	2.30E-03	2.19E-03	1.05E-04	1.60E-04	8.28E-03	1.35E-02
4.55E-04	2.33E-03	2.19E-03	1.05E-04	8.20E-03	8.20E-03	2.15E-02	4.55E-04	2.33E-03	2.19E-03	1.05E-04	1.60E-04	8.20E-03	1.34E-02
4.63E-04	2.38E-03	2.20E-03	1.06E-04	8.15E-03	8.15E-03	2.14E-02	4.63E-04	2.38E-03	2.20E-03	1.06E-04	1.61E-04	8.15E-03	1.35E-02
4.70E-04	2.42E-03	2.21E-03	1.06E-04	8.08E-03	8.08E-03	2.14E-02	4.70E-04	2.42E-03	2.21E-03	1.06E-04	1.61E-04	8.08E-03	1.34E-02
4.79E-04	2.46E-03	2.21E-03	1.06E-04	8.02E-03	8.02E-03	2.13E-02	4.79E-04	2.46E-03	2.21E-03	1.06E-04	1.61E-04	8.02E-03	1.34E-02
4.87E-04	2.51E-03	2.22E-03	1.06E-04	7.96E-03	7.96E-03	2.12E-02	4.87E-04	2.51E-03	2.22E-03	1.06E-04	1.61E-04	7.96E-03	1.34E-02
4.02E-04	2.03E-03	2.11E-03	1.02E-04	7.83E-03	7.83E-03	2.03E-02	4.02E-04	2.03E-03	2.11E-03	1.02E-04	1.55E-04	7.83E-03	1.26E-02
4.06E-04	2.05E-03	2.11E-03	1.02E-04	7.80E-03	7.80E-03	2.03E-02	4.06E-04	2.05E-03	2.11E-03	1.02E-04	1.56E-04	7.80E-03	1.26E-02
4.12E-04	2.09E-03	2.12E-03	1.03E-04	7.77E-03	7.77E-03	2.03E-02	4.12E-04	2.09E-03	2.12E-03	1.03E-04	1.56E-04	7.77E-03	1.26E-02
4.18E-04	2.12E-03	2.12E-03	1.03E-04	7.73E-03	7.73E-03	2.02E-02	4.18E-04	2.12E-03	2.12E-03	1.03E-04	1.56E-04	7.73E-03	1.27E-02
4.24E-04	2.15E-03	2.13E-03	1.03E-04	7.69E-03	7.69E-03	2.02E-02	4.24E-04	2.15E-03	2.13E-03	1.03E-04	1.56E-04	7.69E-03	1.26E-02
4.30E-04	2.18E-03	2.13E-03	1.03E-04	7.64E-03	7.64E-03	2.01E-02	4.30E-04	2.18E-03	2.13E-03	1.03E-04	1.57E-04	7.64E-03	1.26E-02
4.36E-04	2.22E-03	2.14E-03	1.03E-04	7.62E-03	7.62E-03	2.01E-02	4.36E-04	2.22E-03	2.14E-03	1.03E-04	1.57E-04	7.62E-03	1.27E-02
4.42E-04	2.24E-03	2.14E-03	1.03E-04	7.56E-03	7.56E-03	2.01E-02	4.42E-04	2.24E-03	2.14E-03	1.03E-04	1.57E-04	7.56E-03	1.27E-02

4.50E-04	2.28E-03	2.15E-03	1.03E-04	7.53E-03	7.53E-03	2.00E-02	4.50E-04	2.28E-03	2.15E-03	1.03E-04	1.58E-04	7.53E-03	1.27E-02
4.56E-04	2.31E-03	2.15E-03	1.03E-04	7.47E-03	7.47E-03	2.00E-02	4.56E-04	2.31E-03	2.15E-03	1.03E-04	1.58E-04	7.47E-03	1.27E-02
4.64E-04	2.35E-03	2.16E-03	1.04E-04	7.43E-03	7.43E-03	1.99E-02	4.64E-04	2.35E-03	2.16E-03	1.04E-04	1.58E-04	7.43E-03	1.27E-02
4.72E-04	2.39E-03	2.16E-03	1.04E-04	7.39E-03	7.39E-03	1.99E-02	4.72E-04	2.39E-03	2.16E-03	1.04E-04	1.58E-04	7.39E-03	1.27E-02
3.93E-04	1.96E-03	2.07E-03	1.00E-04	7.20E-03	7.20E-03	1.89E-02	3.93E-04	1.96E-03	2.07E-03	1.00E-04	1.53E-04	7.20E-03	1.19E-02
3.97E-04	1.99E-03	2.07E-03	1.00E-04	7.18E-03	7.18E-03	1.89E-02	3.97E-04	1.99E-03	2.07E-03	1.00E-04	1.53E-04	7.18E-03	1.19E-02
4.03E-04	2.02E-03	2.08E-03	1.01E-04	7.17E-03	7.17E-03	1.89E-02	4.03E-04	2.02E-03	2.08E-03	1.01E-04	1.53E-04	7.17E-03	1.19E-02
4.08E-04	2.05E-03	2.08E-03	1.00E-04	7.13E-03	7.13E-03	1.89E-02	4.08E-04	2.05E-03	2.08E-03	1.00E-04	1.53E-04	7.13E-03	1.19E-02
4.13E-04	2.07E-03	2.08E-03	1.00E-04	7.09E-03	7.09E-03	1.88E-02	4.13E-04	2.07E-03	2.08E-03	1.00E-04	1.53E-04	7.09E-03	1.19E-02
4.19E-04	2.10E-03	2.08E-03	1.01E-04	7.06E-03	7.06E-03	1.88E-02	4.19E-04	2.10E-03	2.08E-03	1.01E-04	1.54E-04	7.06E-03	1.19E-02
4.25E-04	2.13E-03	2.09E-03	1.01E-04	7.04E-03	7.04E-03	1.88E-02	4.25E-04	2.13E-03	2.09E-03	1.01E-04	1.54E-04	7.04E-03	1.19E-02
4.31E-04	2.16E-03	2.09E-03	1.01E-04	7.00E-03	7.00E-03	1.88E-02	4.31E-04	2.16E-03	2.09E-03	1.01E-04	1.54E-04	7.00E-03	1.19E-02
4.37E-04	2.19E-03	2.10E-03	1.01E-04	6.97E-03	6.97E-03	1.88E-02	4.37E-04	2.19E-03	2.10E-03	1.01E-04	1.54E-04	6.97E-03	1.19E-02
4.44E-04	2.22E-03	2.10E-03	1.01E-04	6.93E-03	6.93E-03	1.87E-02	4.44E-04	2.22E-03	2.10E-03	1.01E-04	1.55E-04	6.93E-03	1.20E-02
4.51E-04	2.26E-03	2.11E-03	1.01E-04	6.91E-03	6.91E-03	1.87E-02	4.51E-04	2.26E-03	2.11E-03	1.01E-04	1.55E-04	6.91E-03	1.20E-02
4.58E-04	2.29E-03	2.11E-03	1.02E-04	6.87E-03	6.87E-03	1.87E-02	4.58E-04	2.29E-03	2.11E-03	1.02E-04	1.55E-04	6.87E-03	1.20E-02
3.84E-04	1.91E-03	2.03E-03	9.86E-05	6.67E-03	6.67E-03	1.78E-02	3.84E-04	1.91E-03	2.03E-03	9.86E-05	1.50E-04	6.67E-03	1.12E-02
3.88E-04	1.92E-03	2.02E-03	9.84E-05	6.63E-03	6.63E-03	1.77E-02	3.88E-04	1.92E-03	2.02E-03	9.84E-05	1.50E-04	6.63E-03	1.12E-02
3.92E-04	1.94E-03	2.02E-03	9.81E-05	6.59E-03	6.59E-03	1.76E-02	3.92E-04	1.94E-03	2.02E-03	9.81E-05	1.50E-04	6.59E-03	1.12E-02
3.97E-04	1.97E-03	2.03E-03	9.82E-05	6.58E-03	6.58E-03	1.76E-02	3.97E-04	1.97E-03	2.03E-03	9.82E-05	1.50E-04	6.58E-03	1.12E-02
4.02E-04	1.99E-03	2.03E-03	9.83E-05	6.56E-03	6.56E-03	1.76E-02	4.02E-04	1.99E-03	2.03E-03	9.83E-05	1.50E-04	6.56E-03	1.12E-02
4.08E-04	2.02E-03	2.03E-03	9.84E-05	6.54E-03	6.54E-03	1.76E-02	4.08E-04	2.02E-03	2.03E-03	9.84E-05	1.51E-04	6.54E-03	1.12E-02
4.14E-04	2.05E-03	2.04E-03	9.86E-05	6.52E-03	6.52E-03	1.76E-02	4.14E-04	2.05E-03	2.04E-03	9.86E-05	1.51E-04	6.52E-03	1.13E-02
4.20E-04	2.08E-03	2.05E-03	9.89E-05	6.51E-03	6.51E-03	1.77E-02	4.20E-04	2.08E-03	2.05E-03	9.89E-05	1.52E-04	6.51E-03	1.13E-02
4.25E-04	2.11E-03	2.05E-03	9.89E-05	6.47E-03	6.47E-03	1.76E-02	4.25E-04	2.11E-03	2.05E-03	9.89E-05	1.52E-04	6.47E-03	1.13E-02
4.32E-04	2.13E-03	2.05E-03	9.90E-05	6.45E-03	6.45E-03	1.76E-02	4.32E-04	2.13E-03	2.05E-03	9.90E-05	1.52E-04	6.45E-03	1.13E-02
4.38E-04	2.16E-03	2.06E-03	9.91E-05	6.42E-03	6.42E-03	1.76E-02	4.38E-04	2.16E-03	2.06E-03	9.91E-05	1.52E-04	6.42E-03	1.13E-02
4.45E-04	2.19E-03	2.06E-03	9.92E-05	6.39E-03	6.39E-03	1.76E-02	4.45E-04	2.19E-03	2.06E-03	9.92E-05	1.52E-04	6.39E-03	1.13E-02
3.93E-04	1.92E-03	1.98E-03	9.62E-05	6.10E-03	6.10E-03	1.66E-02	3.93E-04	1.92E-03	1.98E-03	9.62E-05	1.47E-04	6.10E-03	1.06E-02
3.98E-04	1.95E-03	1.99E-03	9.64E-05	6.09E-03	6.09E-03	1.66E-02	3.98E-04	1.95E-03	1.99E-03	9.64E-05	1.48E-04	6.09E-03	1.07E-02
4.04E-04	1.98E-03	1.99E-03	9.66E-05	6.08E-03	6.08E-03	1.66E-02	4.04E-04	1.98E-03	1.99E-03	9.66E-05	1.48E-04	6.08E-03	1.07E-02
4.09E-04	2.00E-03	2.00E-03	9.67E-05	6.06E-03	6.06E-03	1.66E-02	4.09E-04	2.00E-03	2.00E-03	9.67E-05	1.48E-04	6.06E-03	1.07E-02
4.15E-04	2.02E-03	2.00E-03	9.68E-05	6.04E-03	6.04E-03	1.66E-02	4.15E-04	2.02E-03	2.00E-03	9.68E-05	1.49E-04	6.04E-03	1.07E-02
4.21E-04	2.05E-03	2.00E-03	9.68E-05	6.01E-03	6.01E-03	1.66E-02	4.21E-04	2.05E-03	2.00E-03	9.68E-05	1.49E-04	6.01E-03	1.07E-02
4.26E-04	2.07E-03	2.01E-03	9.69E-05	5.99E-03	5.99E-03	1.66E-02	4.26E-04	2.07E-03	2.01E-03	9.69E-05	1.49E-04	5.99E-03	1.07E-02
4.33E-04	2.10E-03	2.01E-03	9.71E-05	5.97E-03	5.97E-03	1.66E-02	4.33E-04	2.10E-03	2.01E-03	9.71E-05	1.49E-04	5.97E-03	1.08E-02
3.74E-04	1.81E-03	1.93E-03	9.40E-05	5.70E-03	5.70E-03	1.56E-02	3.74E-04	1.81E-03	1.93E-03	9.40E-05	1.44E-04	5.70E-03	1.01E-02
3.79E-04	1.83E-03	1.94E-03	9.42E-05	5.70E-03	5.70E-03	1.56E-02	3.79E-04	1.83E-03	1.94E-03	9.42E-05	1.44E-04	5.70E-03	1.01E-02
3.83E-04	1.85E-03	1.94E-03	9.43E-05	5.69E-03	5.69E-03	1.57E-02	3.83E-04	1.85E-03	1.94E-03	9.43E-05	1.45E-04	5.69E-03	1.01E-02
3.88E-04	1.88E-03	1.95E-03	9.44E-05	5.69E-03	5.69E-03	1.57E-02	3.88E-04	1.88E-03	1.95E-03	9.44E-05	1.45E-04	5.69E-03	1.01E-02
3.94E-04	1.90E-03	1.95E-03	9.46E-05	5.68E-03	5.68E-03	1.57E-02	3.94E-04	1.90E-03	1.95E-03	9.46E-05	1.45E-04	5.68E-03	1.02E-02
3.99E-04	1.93E-03	1.96E-03	9.48E-05	5.67E-03	5.67E-03	1.57E-02	3.99E-04	1.93E-03	1.96E-03	9.48E-05	1.46E-04	5.67E-03	1.02E-02
4.04E-04	1.95E-03	1.96E-03	9.48E-05	5.65E-03	5.65E-03	1.57E-02	4.04E-04	1.95E-03	1.96E-03	9.48E-05	1.46E-04	5.65E-03	1.02E-02
4.10E-04	1.97E-03	1.96E-03	9.49E-05	5.63E-03	5.63E-03	1.57E-02	4.10E-04	1.97E-03	1.96E-03	9.49E-05	1.46E-04	5.63E-03	1.02E-02
4.15E-04	1.99E-03	1.96E-03	9.50E-05	5.62E-03	5.62E-03	1.57E-02	4.15E-04	1.99E-03	1.96E-03	9.50E-05	1.46E-04	5.62E-03	1.02E-02
4.21E-04	2.01E-03	1.97E-03	9.50E-05	5.60E-03	5.60E-03	1.57E-02	4.21E-04	2.01E-03	1.97E-03	9.50E-05	1.46E-04	5.60E-03	1.02E-02
3.57E-04	1.70E-03	1.88E-03	9.19E-05	5.32E-03	5.32E-03	1.47E-02	3.57E-04	1.70E-03	1.88E-03	9.19E-05	1.41E-04	5.32E-03	9.50E-03
3.62E-04	1.73E-03	1.89E-03	9.21E-05	5.33E-03	5.33E-03	1.47E-02	3.62E-04	1.73E-03	1.89E-03	9.21E-05	1.41E-04	5.33E-03	9.55E-03
3.66E-04	1.75E-03	1.89E-03	9.23E-05	5.34E-03	5.34E-03	1.48E-02	3.66E-04	1.75E-03	1.89E-03	9.23E-05	1.41E-04	5.34E-03	9.58E-03
3.70E-04	1.77E-03	1.90E-03	9.23E-05	5.34E-03	5.34E-03	1.48E-02	3.70E-04	1.77E-03	1.90E-03	9.23E-05	1.42E-04	5.34E-03	9.61E-03
3.74E-04	1.79E-03	1.90E-03	9.24E-05	5.34E-03	5.34E-03	1.48E-02	3.74E-04	1.79E-03	1.90E-03	9.24E-05	1.42E-04	5.34E-03	9.64E-03
3.79E-04	1.81E-03	1.90E-03	9.26E-05	5.33E-03	5.33E-03	1.49E-02	3.79E-04	1.81E-03	1.90E-03	9.26E-05	1.42E-04	5.33E-03	9.66E-03
3.84E-04	1.83E-03	1.91E-03	9.27E-05	5.33E-03	5.33E-03	1.49E-02	3.84E-04	1.83E-03	1.91E-03	9.27E-05	1.43E-04	5.33E-03	9.69E-03
3.89E-04	1.85E-03	1.91E-03	9.28E-05	5.32E-03	5.32E-03	1.49E-02	3.89E-04	1.85E-03	1.91E-03	9.28E-05	1.43E-04	5.32E-03	9.71E-03

3.94E-04	1.88E-03	1.92E-03	9.29E-05	5.31E-03	5.31E-03	1.49E-02	3.94E-04	1.88E-03	1.92E-03	9.29E-05	1.43E-04	5.31E-03	9.74E-03
4.00E-04	1.90E-03	1.92E-03	9.30E-05	5.30E-03	5.30E-03	1.49E-02	4.00E-04	1.90E-03	1.92E-03	9.30E-05	1.44E-04	5.30E-03	9.75E-03
4.05E-04	1.91E-03	1.92E-03	9.31E-05	5.28E-03	5.28E-03	1.49E-02	4.05E-04	1.91E-03	1.92E-03	9.31E-05	1.44E-04	5.28E-03	9.76E-03
4.11E-04	1.93E-03	1.92E-03	9.31E-05	5.26E-03	5.26E-03	1.49E-02	4.11E-04	1.93E-03	1.92E-03	9.31E-05	1.44E-04	5.26E-03	9.76E-03
3.50E-04	1.64E-03	1.84E-03	8.98E-05	4.94E-03	4.94E-03	1.38E-02	3.50E-04	1.64E-03	1.84E-03	8.98E-05	1.38E-04	4.94E-03	9.01E-03
3.54E-04	1.67E-03	1.84E-03	9.00E-05	4.95E-03	4.95E-03	1.39E-02	3.54E-04	1.67E-03	1.84E-03	9.00E-05	1.38E-04	4.95E-03	9.04E-03
3.58E-04	1.69E-03	1.85E-03	9.01E-05	4.96E-03	4.96E-03	1.39E-02	3.58E-04	1.69E-03	1.85E-03	9.01E-05	1.38E-04	4.96E-03	9.08E-03
3.62E-04	1.71E-03	1.85E-03	9.03E-05	4.97E-03	4.97E-03	1.39E-02	3.62E-04	1.71E-03	1.85E-03	9.03E-05	1.39E-04	4.97E-03	9.11E-03
3.66E-04	1.73E-03	1.86E-03	9.04E-05	4.97E-03	4.97E-03	1.40E-02	3.66E-04	1.73E-03	1.86E-03	9.04E-05	1.39E-04	4.97E-03	9.14E-03
3.70E-04	1.74E-03	1.86E-03	9.05E-05	4.96E-03	4.96E-03	1.40E-02	3.70E-04	1.74E-03	1.86E-03	9.05E-05	1.39E-04	4.96E-03	9.17E-03
3.54E-04	1.65E-03	1.81E-03	8.85E-05	4.68E-03	4.68E-03	1.33E-02	3.54E-04	1.65E-03	1.81E-03	8.85E-05	1.36E-04	4.68E-03	8.72E-03
3.58E-04	1.66E-03	1.82E-03	8.86E-05	4.68E-03	4.68E-03	1.33E-02	3.58E-04	1.66E-03	1.82E-03	8.86E-05	1.36E-04	4.68E-03	8.75E-03
3.36E-04	1.54E-03	1.76E-03	8.63E-05	4.40E-03	4.40E-03	1.25E-02	3.36E-04	1.54E-03	1.76E-03	8.63E-05	1.33E-04	4.40E-03	8.26E-03
3.39E-04	1.56E-03	1.77E-03	8.65E-05	4.41E-03	4.41E-03	1.26E-02	3.39E-04	1.56E-03	1.77E-03	8.65E-05	1.33E-04	4.41E-03	8.29E-03
3.43E-04	1.58E-03	1.77E-03	8.68E-05	4.43E-03	4.43E-03	1.26E-02	3.43E-04	1.58E-03	1.77E-03	8.68E-05	1.34E-04	4.43E-03	8.34E-03
3.46E-04	1.59E-03	1.78E-03	8.68E-05	4.43E-03	4.43E-03	1.27E-02	3.46E-04	1.59E-03	1.78E-03	8.68E-05	1.34E-04	4.43E-03	8.36E-03
3.50E-04	1.61E-03	1.78E-03	8.69E-05	4.43E-03	4.43E-03	1.27E-02	3.50E-04	1.61E-03	1.78E-03	8.69E-05	1.34E-04	4.43E-03	8.39E-03
3.29E-04	1.49E-03	1.73E-03	8.47E-05	4.17E-03	4.17E-03	1.20E-02	3.29E-04	1.49E-03	1.73E-03	8.47E-05	1.31E-04	4.17E-03	7.94E-03
3.32E-04	1.51E-03	1.73E-03	8.49E-05	4.18E-03	4.18E-03	1.20E-02	3.32E-04	1.51E-03	1.73E-03	8.49E-05	1.31E-04	4.18E-03	7.97E-03
3.36E-04	1.53E-03	1.74E-03	8.50E-05	4.19E-03	4.19E-03	1.21E-02	3.36E-04	1.53E-03	1.74E-03	8.50E-05	1.31E-04	4.19E-03	8.01E-03
3.40E-04	1.54E-03	1.74E-03	8.51E-05	4.20E-03	4.20E-03	1.21E-02	3.40E-04	1.54E-03	1.74E-03	8.51E-05	1.31E-04	4.20E-03	8.03E-03
3.43E-04	1.55E-03	1.74E-03	8.51E-05	4.19E-03	4.19E-03	1.21E-02	3.43E-04	1.55E-03	1.74E-03	8.51E-05	1.31E-04	4.19E-03	8.04E-03
3.23E-04	1.45E-03	1.70E-03	8.31E-05	3.96E-03	3.96E-03	1.15E-02	3.23E-04	1.45E-03	1.70E-03	8.31E-05	1.29E-04	3.96E-03	7.64E-03
3.26E-04	1.46E-03	1.70E-03	8.33E-05	3.97E-03	3.97E-03	1.15E-02	3.26E-04	1.46E-03	1.70E-03	8.33E-05	1.29E-04	3.97E-03	7.67E-03
3.30E-04	1.47E-03	1.70E-03	8.34E-05	3.98E-03	3.98E-03	1.15E-02	3.30E-04	1.47E-03	1.70E-03	8.34E-05	1.29E-04	3.98E-03	7.70E-03
3.32E-04	1.49E-03	1.70E-03	8.34E-05	3.98E-03	3.98E-03	1.16E-02	3.32E-04	1.49E-03	1.70E-03	8.34E-05	1.29E-04	3.98E-03	7.72E-03
3.36E-04	1.50E-03	1.71E-03	8.35E-05	3.98E-03	3.98E-03	1.16E-02	3.36E-04	1.50E-03	1.71E-03	8.35E-05	1.29E-04	3.98E-03	7.74E-03
3.23E-04	1.43E-03	1.67E-03	8.19E-05	3.79E-03	3.79E-03	1.11E-02	3.23E-04	1.43E-03	1.67E-03	8.19E-05	1.27E-04	3.79E-03	7.42E-03
3.26E-04	1.44E-03	1.68E-03	8.21E-05	3.80E-03	3.80E-03	1.11E-02	3.26E-04	1.44E-03	1.68E-03	8.21E-05	1.27E-04	3.80E-03	7.45E-03
3.30E-04	1.45E-03	1.68E-03	8.22E-05	3.80E-03	3.80E-03	1.12E-02	3.30E-04	1.45E-03	1.68E-03	8.22E-05	1.27E-04	3.80E-03	7.47E-03
3.84E-04	1.92E-03	2.09E-03	1.01E-04	7.68E-03	7.68E-03	1.99E-02	3.84E-04	1.92E-03	2.09E-03	1.01E-04	1.54E-04	7.68E-03	1.23E-02
3.88E-04	1.94E-03	2.09E-03	1.01E-04	7.65E-03	7.65E-03	1.98E-02	3.88E-04	1.94E-03	2.09E-03	1.01E-04	1.54E-04	7.65E-03	1.23E-02
3.93E-04	1.97E-03	2.09E-03	1.01E-04	7.63E-03	7.63E-03	1.98E-02	3.93E-04	1.97E-03	2.09E-03	1.01E-04	1.54E-04	7.63E-03	1.23E-02
3.76E-04	1.86E-03	2.04E-03	9.94E-05	7.05E-03	7.05E-03	1.85E-02	3.76E-04	1.86E-03	2.04E-03	9.94E-05	1.51E-04	7.05E-03	1.16E-02
3.79E-04	1.88E-03	2.04E-03	9.94E-05	7.02E-03	7.02E-03	1.85E-02	3.79E-04	1.88E-03	2.04E-03	9.94E-05	1.51E-04	7.02E-03	1.16E-02
3.84E-04	1.91E-03	2.05E-03	9.94E-05	7.01E-03	7.01E-03	1.85E-02	3.84E-04	1.91E-03	2.05E-03	9.94E-05	1.51E-04	7.01E-03	1.16E-02
3.68E-04	1.80E-03	2.00E-03	9.74E-05	6.50E-03	6.50E-03	1.73E-02	3.68E-04	1.80E-03	2.00E-03	9.74E-05	1.48E-04	6.50E-03	1.09E-02
3.72E-04	1.83E-03	2.00E-03	9.75E-05	6.50E-03	6.50E-03	1.73E-02	3.72E-04	1.83E-03	2.00E-03	9.75E-05	1.48E-04	6.50E-03	1.09E-02
3.76E-04	1.85E-03	2.00E-03	9.76E-05	6.49E-03	6.49E-03	1.73E-02	3.76E-04	1.85E-03	2.00E-03	9.76E-05	1.49E-04	6.49E-03	1.10E-02
3.64E-04	1.77E-03	1.96E-03	9.57E-05	6.04E-03	6.04E-03	1.63E-02	3.64E-04	1.77E-03	1.96E-03	9.57E-05	1.46E-04	6.04E-03	1.04E-02
3.68E-04	1.79E-03	1.96E-03	9.56E-05	6.03E-03	6.03E-03	1.63E-02	3.68E-04	1.79E-03	1.96E-03	9.56E-05	1.46E-04	6.03E-03	1.04E-02
3.55E-04	1.71E-03	1.91E-03	9.33E-05	5.59E-03	5.59E-03	1.52E-02	3.55E-04	1.71E-03	1.91E-03	9.33E-05	1.43E-04	5.59E-03	9.80E-03
3.59E-04	1.73E-03	1.91E-03	9.33E-05	5.59E-03	5.59E-03	1.53E-02	3.59E-04	1.73E-03	1.91E-03	9.33E-05	1.43E-04	5.59E-03	9.83E-03
3.47E-04	1.64E-03	1.86E-03	9.10E-05	5.20E-03	5.20E-03	1.43E-02	3.47E-04	1.64E-03	1.86E-03	9.10E-05	1.39E-04	5.20E-03	9.28E-03
3.51E-04	1.66E-03	1.87E-03	9.12E-05	5.21E-03	5.21E-03	1.44E-02	3.51E-04	1.66E-03	1.87E-03	9.12E-05	1.40E-04	5.21E-03	9.32E-03
3.64E-04	1.78E-03	2.00E-03	9.74E-05	6.55E-03	6.55E-03	1.73E-02	3.64E-04	1.78E-03	2.00E-03	9.74E-05	1.48E-04	6.55E-03	1.09E-02
3.40E-04	1.59E-03	1.83E-03	8.91E-05	4.88E-03	4.88E-03	1.36E-02	3.40E-04	1.59E-03	1.83E-03	8.91E-05	1.37E-04	4.88E-03	8.86E-03
3.44E-04	1.61E-03	1.83E-03	8.94E-05	4.89E-03	4.89E-03	1.37E-02	3.44E-04	1.61E-03	1.83E-03	8.94E-05	1.37E-04	4.89E-03	8.90E-03
3.52E-04	1.72E-03	2.08E-03	1.01E-04	7.89E-03	7.89E-03	2.00E-02	3.52E-04	1.72E-03	2.08E-03	1.01E-04	1.52E-04	7.89E-03	1.23E-02
3.55E-04	1.75E-03	2.09E-03	1.02E-04	7.93E-03	7.93E-03	2.02E-02	3.55E-04	1.75E-03	2.09E-03	1.02E-04	1.53E-04	7.93E-03	1.24E-02
3.46E-04	1.70E-03	2.07E-03	1.01E-04	7.29E-03	7.29E-03	1.88E-02	3.46E-04	1.70E-03	2.07E-03	1.01E-04	1.52E-04	7.29E-03	1.17E-02
3.49E-04	1.72E-03	2.06E-03	1.00E-04	7.30E-03	7.30E-03	1.88E-02	3.49E-04	1.72E-03	2.06E-03	1.00E-04	1.51E-04	7.30E-03	1.17E-02
3.53E-04	1.75E-03	2.07E-03	1.01E-04	7.32E-03	7.32E-03	1.89E-02	3.53E-04	1.75E-03	2.07E-03	1.01E-04	1.53E-04	7.32E-03	1.17E-02
3.33E-04	1.60E-03	2.01E-03	9.81E-05	6.62E-03	6.62E-03	1.73E-02	3.33E-04	1.60E-03	2.01E-03	9.81E-05	1.47E-04	6.62E-03	1.08E-02

3.36E-04	1.62E-03	2.01E-03	9.84E-05	6.65E-03	6.65E-03	1.74E-02	3.36E-04	1.62E-03	2.01E-03	9.84E-05	1.48E-04	6.65E-03	1.09E-02
3.38E-04	1.63E-03	1.99E-03	9.72E-05	6.60E-03	6.60E-03	1.73E-02	3.38E-04	1.63E-03	1.99E-03	9.72E-05	1.46E-04	6.60E-03	1.08E-02
3.42E-04	1.64E-03	1.99E-03	9.69E-05	6.59E-03	6.59E-03	1.72E-02	3.42E-04	1.64E-03	1.99E-03	9.69E-05	1.46E-04	6.59E-03	1.08E-02
3.45E-04	1.66E-03	1.99E-03	9.71E-05	6.60E-03	6.60E-03	1.73E-02	3.45E-04	1.66E-03	1.99E-03	9.71E-05	1.47E-04	6.60E-03	1.08E-02
3.25E-04	1.53E-03	1.94E-03	9.46E-05	6.00E-03	6.00E-03	1.59E-02	3.25E-04	1.53E-03	1.94E-03	9.46E-05	1.42E-04	6.00E-03	1.00E-02
3.28E-04	1.54E-03	1.93E-03	9.44E-05	5.99E-03	5.99E-03	1.59E-02	3.28E-04	1.54E-03	1.93E-03	9.44E-05	1.42E-04	5.99E-03	1.00E-02
3.40E-04	1.62E-03	1.91E-03	9.33E-05	5.74E-03	5.74E-03	1.54E-02	3.40E-04	1.62E-03	1.91E-03	9.33E-05	1.42E-04	5.74E-03	9.85E-03
3.43E-04	1.64E-03	1.92E-03	9.34E-05	5.75E-03	5.75E-03	1.55E-02	3.43E-04	1.64E-03	1.92E-03	9.34E-05	1.43E-04	5.75E-03	9.88E-03
3.19E-04	1.49E-03	1.90E-03	9.27E-05	5.56E-03	5.56E-03	1.49E-02	3.19E-04	1.49E-03	1.90E-03	9.27E-05	1.39E-04	5.56E-03	9.50E-03
3.22E-04	1.50E-03	1.89E-03	9.23E-05	5.54E-03	5.54E-03	1.49E-02	3.22E-04	1.50E-03	1.89E-03	9.23E-05	1.39E-04	5.54E-03	9.48E-03
3.34E-04	1.58E-03	1.88E-03	9.16E-05	5.37E-03	5.37E-03	1.46E-02	3.34E-04	1.58E-03	1.88E-03	9.16E-05	1.40E-04	5.37E-03	9.39E-03
3.36E-04	1.59E-03	1.88E-03	9.15E-05	5.36E-03	5.36E-03	1.46E-02	3.36E-04	1.59E-03	1.88E-03	9.15E-05	1.40E-04	5.36E-03	9.39E-03
3.14E-04	1.45E-03	1.86E-03	9.10E-05	5.20E-03	5.20E-03	1.41E-02	3.14E-04	1.45E-03	1.86E-03	9.10E-05	1.36E-04	5.20E-03	9.05E-03
3.16E-04	1.46E-03	1.85E-03	9.05E-05	5.17E-03	5.17E-03	1.41E-02	3.16E-04	1.46E-03	1.85E-03	9.05E-05	1.36E-04	5.17E-03	9.02E-03
3.07E-04	1.41E-03	1.82E-03	8.91E-05	4.86E-03	4.86E-03	1.33E-02	3.07E-04	1.41E-03	1.82E-03	8.91E-05	1.34E-04	4.86E-03	8.62E-03
3.10E-04	1.42E-03	1.81E-03	8.88E-05	4.85E-03	4.85E-03	1.33E-02	3.10E-04	1.42E-03	1.81E-03	8.88E-05	1.34E-04	4.85E-03	8.62E-03
2.53E-03	1.49E-02	3.05E-03	1.48E-04	1.14E-02	1.14E-02	4.34E-02	2.53E-03	1.49E-02	3.05E-03	1.48E-04	2.15E-04	1.14E-02	3.22E-02
2.86E-03	1.63E-02	3.06E-03	1.47E-04	1.12E-02	1.12E-02	4.47E-02	2.86E-03	1.63E-02	3.06E-03	1.47E-04	2.14E-04	1.12E-02	3.38E-02
3.31E-03	1.81E-02	3.07E-03	1.47E-04	1.10E-02	1.10E-02	4.66E-02	3.31E-03	1.81E-02	3.07E-03	1.47E-04	2.13E-04	1.10E-02	3.58E-02
3.96E-03	2.04E-02	3.07E-03	1.46E-04	1.07E-02	1.07E-02	4.90E-02	3.96E-03	2.04E-02	3.07E-03	1.46E-04	2.12E-04	1.07E-02	3.85E-02
2.13E-03	1.29E-02	2.95E-03	1.44E-04	1.12E-02	1.12E-02	4.05E-02	2.13E-03	1.29E-02	2.95E-03	1.44E-04	2.12E-04	1.12E-02	2.95E-02
2.38E-03	1.42E-02	2.96E-03	1.44E-04	1.10E-02	1.10E-02	4.16E-02	2.38E-03	1.42E-02	2.96E-03	1.44E-04	2.11E-04	1.10E-02	3.08E-02
2.67E-03	1.54E-02	2.96E-03	1.43E-04	1.07E-02	1.07E-02	4.27E-02	2.67E-03	1.54E-02	2.96E-03	1.43E-04	2.10E-04	1.07E-02	3.21E-02
3.07E-03	1.69E-02	2.97E-03	1.42E-04	1.05E-02	1.05E-02	4.41E-02	3.07E-03	1.69E-02	2.97E-03	1.42E-04	2.08E-04	1.05E-02	3.38E-02
1.85E-03	1.13E-02	2.85E-03	1.40E-04	1.09E-02	1.09E-02	3.81E-02	1.85E-03	1.13E-02	2.85E-03	1.40E-04	2.09E-04	1.09E-02	2.73E-02
2.03E-03	1.23E-02	2.86E-03	1.40E-04	1.07E-02	1.07E-02	3.88E-02	2.03E-03	1.23E-02	2.86E-03	1.40E-04	2.08E-04	1.07E-02	2.83E-02
2.24E-03	1.33E-02	2.86E-03	1.39E-04	1.05E-02	1.05E-02	3.96E-02	2.24E-03	1.33E-02	2.86E-03	1.39E-04	2.06E-04	1.05E-02	2.93E-02
2.51E-03	1.45E-02	2.87E-03	1.39E-04	1.03E-02	1.03E-02	4.06E-02	2.51E-03	1.45E-02	2.87E-03	1.39E-04	2.05E-04	1.03E-02	3.05E-02
1.64E-03	1.01E-02	2.76E-03	1.37E-04	1.07E-02	1.07E-02	3.59E-02	1.64E-03	1.01E-02	2.76E-03	1.37E-04	2.06E-04	1.07E-02	2.55E-02
1.77E-03	1.07E-02	2.76E-03	1.36E-04	1.05E-02	1.05E-02	3.63E-02	1.77E-03	1.07E-02	2.76E-03	1.36E-04	2.05E-04	1.05E-02	2.60E-02
1.93E-03	1.15E-02	2.77E-03	1.36E-04	1.02E-02	1.02E-02	3.68E-02	1.93E-03	1.15E-02	2.77E-03	1.36E-04	2.03E-04	1.02E-02	2.67E-02
2.12E-03	1.24E-02	2.77E-03	1.35E-04	1.00E-02	1.00E-02	3.75E-02	2.12E-03	1.24E-02	2.77E-03	1.35E-04	2.02E-04	1.00E-02	2.77E-02
1.62E-03	1.07E-02	3.60E-03	1.84E-04	1.74E-02	1.74E-02	5.10E-02	1.62E-03	1.07E-02	3.60E-03	1.84E-04	2.65E-04	1.74E-02	3.38E-02
1.72E-03	1.13E-02	3.58E-03	1.83E-04	1.71E-02	1.71E-02	5.09E-02	1.72E-03	1.13E-02	3.58E-03	1.83E-04	2.63E-04	1.71E-02	3.41E-02
1.84E-03	1.20E-02	3.57E-03	1.82E-04	1.67E-02	1.67E-02	5.10E-02	1.84E-03	1.20E-02	3.57E-03	1.82E-04	2.62E-04	1.67E-02	3.45E-02
1.97E-03	1.27E-02	3.57E-03	1.80E-04	1.63E-02	1.63E-02	5.11E-02	1.97E-03	1.27E-02	3.57E-03	1.80E-04	2.60E-04	1.63E-02	3.50E-02
2.12E-03	1.35E-02	3.56E-03	1.79E-04	1.60E-02	1.60E-02	5.13E-02	2.12E-03	1.35E-02	3.56E-03	1.79E-04	2.57E-04	1.60E-02	3.56E-02
2.30E-03	1.43E-02	3.56E-03	1.78E-04	1.56E-02	1.56E-02	5.17E-02	2.30E-03	1.43E-02	3.56E-03	1.78E-04	2.55E-04	1.56E-02	3.63E-02
2.52E-03	1.54E-02	3.57E-03	1.77E-04	1.53E-02	1.53E-02	5.22E-02	2.52E-03	1.54E-02	3.57E-03	1.77E-04	2.53E-04	1.53E-02	3.72E-02
2.77E-03	1.65E-02	3.57E-03	1.76E-04	1.50E-02	1.50E-02	5.29E-02	2.77E-03	1.65E-02	3.57E-03	1.76E-04	2.51E-04	1.50E-02	3.82E-02
3.09E-03	1.78E-02	3.58E-03	1.76E-04	1.47E-02	1.47E-02	5.40E-02	3.09E-03	1.78E-02	3.58E-03	1.76E-04	2.49E-04	1.47E-02	3.96E-02
3.52E-03	1.98E-02	3.60E-03	1.76E-04	1.43E-02	1.43E-02	5.58E-02	3.52E-03	1.98E-02	3.60E-03	1.76E-04	2.47E-04	1.43E-02	4.17E-02
4.10E-03	2.23E-02	3.62E-03	1.76E-04	1.40E-02	1.40E-02	5.82E-02	4.10E-03	2.23E-02	3.62E-03	1.76E-04	2.47E-04	1.40E-02	4.45E-02
4.85E-03	2.50E-02	3.64E-03	1.76E-04	1.37E-02	1.37E-02	6.11E-02	4.85E-03	2.50E-02	3.64E-03	1.76E-04	2.45E-04	1.37E-02	4.76E-02
5.99E-03	2.93E-02	3.67E-03	1.76E-04	1.34E-02	1.34E-02	6.59E-02	5.99E-03	2.93E-02	3.67E-03	1.76E-04	2.45E-04	1.34E-02	5.28E-02
7.62E-03	3.44E-02	3.69E-03	1.76E-04	1.31E-02	1.31E-02	7.21E-02	7.62E-03	3.44E-02	3.69E-03	1.76E-04	2.44E-04	1.31E-02	5.92E-02
1.42E-03	9.50E-03	3.50E-03	1.79E-04	1.74E-02	1.74E-02	4.95E-02	1.42E-03	9.50E-03	3.50E-03	1.79E-04	2.60E-04	1.74E-02	3.23E-02
1.50E-03	9.97E-03	3.48E-03	1.78E-04	1.70E-02	1.70E-02	4.92E-02	1.50E-03	9.97E-03	3.48E-03	1.78E-04	2.59E-04	1.70E-02	3.24E-02
1.58E-03	1.05E-02	3.47E-03	1.77E-04	1.67E-02	1.67E-02	4.90E-02	1.58E-03	1.05E-02	3.47E-03	1.77E-04	2.57E-04	1.67E-02	3.27E-02
1.68E-03	1.11E-02	3.46E-03	1.76E-04	1.63E-02	1.63E-02	4.90E-02	1.68E-03	1.11E-02	3.46E-03	1.76E-04	2.56E-04	1.63E-02	3.30E-02
1.79E-03	1.17E-02	3.45E-03	1.75E-04	1.59E-02	1.59E-02	4.90E-02	1.79E-03	1.17E-02	3.45E-03	1.75E-04	2.54E-04	1.59E-02	3.33E-02
1.91E-03	1.24E-02	3.45E-03	1.74E-04	1.56E-02	1.56E-02	4.90E-02	1.91E-03	1.24E-02	3.45E-03	1.74E-04	2.52E-04	1.56E-02	3.37E-02
2.04E-03	1.30E-02	3.44E-03	1.72E-04	1.52E-02	1.52E-02	4.91E-02	2.04E-03	1.30E-02	3.44E-03	1.72E-04	2.49E-04	1.52E-02	3.41E-02
2.21E-03	1.38E-02	3.44E-03	1.71E-04	1.49E-02	1.49E-02	4.94E-02	2.21E-03	1.38E-02	3.44E-03	1.71E-04	2.47E-04	1.49E-02	3.47E-02

2.40E-03	1.47E-02	3.45E-03	1.70E-04	1.46E-02	1.46E-02	4.99E-02	2.40E-03	1.47E-02	3.45E-03	1.70E-04	2.45E-04	1.46E-02	3.55E-02
2.64E-03	1.59E-02	3.46E-03	1.70E-04	1.43E-02	1.43E-02	5.07E-02	2.64E-03	1.59E-02	3.46E-03	1.70E-04	2.43E-04	1.43E-02	3.66E-02
2.95E-03	1.74E-02	3.47E-03	1.70E-04	1.40E-02	1.40E-02	5.18E-02	2.95E-03	1.74E-02	3.47E-03	1.70E-04	2.42E-04	1.40E-02	3.81E-02
3.34E-03	1.92E-02	3.49E-03	1.70E-04	1.37E-02	1.37E-02	5.35E-02	3.34E-03	1.92E-02	3.49E-03	1.70E-04	2.41E-04	1.37E-02	4.01E-02
3.86E-03	2.18E-02	3.52E-03	1.70E-04	1.33E-02	1.33E-02	5.60E-02	3.86E-03	2.18E-02	3.52E-03	1.70E-04	2.40E-04	1.33E-02	4.29E-02
4.50E-03	2.42E-02	3.54E-03	1.70E-04	1.31E-02	1.31E-02	5.85E-02	4.50E-03	2.42E-02	3.54E-03	1.70E-04	2.39E-04	1.31E-02	4.57E-02
5.40E-03	2.72E-02	3.55E-03	1.70E-04	1.28E-02	1.28E-02	6.20E-02	5.40E-03	2.72E-02	3.55E-03	1.70E-04	2.38E-04	1.28E-02	4.94E-02
1.27E-03	8.53E-03	3.41E-03	1.75E-04	1.74E-02	1.74E-02	4.82E-02	1.27E-03	8.53E-03	3.41E-03	1.75E-04	2.55E-04	1.74E-02	3.11E-02
1.33E-03	8.91E-03	3.39E-03	1.74E-04	1.70E-02	1.70E-02	4.78E-02	1.33E-03	8.91E-03	3.39E-03	1.74E-04	2.54E-04	1.70E-02	3.11E-02
1.39E-03	9.33E-03	3.37E-03	1.73E-04	1.66E-02	1.66E-02	4.75E-02	1.39E-03	9.33E-03	3.37E-03	1.73E-04	2.53E-04	1.66E-02	3.11E-02
1.47E-03	9.79E-03	3.36E-03	1.72E-04	1.62E-02	1.62E-02	4.72E-02	1.47E-03	9.79E-03	3.36E-03	1.72E-04	2.51E-04	1.62E-02	3.13E-02
1.55E-03	1.03E-02	3.35E-03	1.70E-04	1.59E-02	1.59E-02	4.70E-02	1.55E-03	1.03E-02	3.35E-03	1.70E-04	2.50E-04	1.59E-02	3.14E-02
1.64E-03	1.08E-02	3.34E-03	1.69E-04	1.55E-02	1.55E-02	4.69E-02	1.64E-03	1.08E-02	3.34E-03	1.69E-04	2.48E-04	1.55E-02	3.17E-02
1.73E-03	1.13E-02	3.33E-03	1.68E-04	1.51E-02	1.51E-02	4.68E-02	1.73E-03	1.13E-02	3.33E-03	1.68E-04	2.46E-04	1.51E-02	3.19E-02
1.84E-03	1.19E-02	3.33E-03	1.67E-04	1.48E-02	1.48E-02	4.68E-02	1.84E-03	1.19E-02	3.33E-03	1.67E-04	2.43E-04	1.48E-02	3.23E-02
1.98E-03	1.25E-02	3.33E-03	1.66E-04	1.45E-02	1.45E-02	4.70E-02	1.98E-03	1.25E-02	3.33E-03	1.66E-04	2.41E-04	1.45E-02	3.27E-02
2.13E-03	1.34E-02	3.33E-03	1.65E-04	1.42E-02	1.42E-02	4.73E-02	2.13E-03	1.34E-02	3.33E-03	1.65E-04	2.40E-04	1.42E-02	3.34E-02
2.32E-03	1.43E-02	3.34E-03	1.65E-04	1.38E-02	1.38E-02	4.78E-02	2.32E-03	1.43E-02	3.34E-03	1.65E-04	2.38E-04	1.38E-02	3.42E-02
2.53E-03	1.53E-02	3.35E-03	1.64E-04	1.35E-02	1.35E-02	4.84E-02	2.53E-03	1.53E-02	3.35E-03	1.64E-04	2.36E-04	1.35E-02	3.51E-02
2.81E-03	1.67E-02	3.36E-03	1.64E-04	1.33E-02	1.33E-02	4.96E-02	2.81E-03	1.67E-02	3.36E-03	1.64E-04	2.35E-04	1.33E-02	3.65E-02
3.19E-03	1.87E-02	3.39E-03	1.64E-04	1.30E-02	1.30E-02	5.14E-02	3.19E-03	1.87E-02	3.39E-03	1.64E-04	2.34E-04	1.30E-02	3.87E-02
3.63E-03	2.05E-02	3.40E-03	1.64E-04	1.27E-02	1.27E-02	5.31E-02	3.63E-03	2.05E-02	3.40E-03	1.64E-04	2.33E-04	1.27E-02	4.07E-02
4.21E-03	2.27E-02	3.42E-03	1.64E-04	1.24E-02	1.24E-02	5.54E-02	4.21E-03	2.27E-02	3.42E-03	1.64E-04	2.32E-04	1.24E-02	4.32E-02
1.15E-03	7.80E-03	3.34E-03	1.71E-04	1.74E-02	1.74E-02	4.72E-02	1.15E-03	7.80E-03	3.34E-03	1.71E-04	2.50E-04	1.74E-02	3.01E-02
1.20E-03	8.04E-03	3.30E-03	1.69E-04	1.70E-02	1.70E-02	4.67E-02	1.20E-03	8.04E-03	3.30E-03	1.69E-04	2.49E-04	1.70E-02	2.99E-02
1.25E-03	8.42E-03	3.29E-03	1.69E-04	1.66E-02	1.66E-02	4.62E-02	1.25E-03	8.42E-03	3.29E-03	1.69E-04	2.48E-04	1.66E-02	2.99E-02
1.31E-03	8.79E-03	3.27E-03	1.68E-04	1.61E-02	1.61E-02	4.58E-02	1.31E-03	8.79E-03	3.27E-03	1.68E-04	2.47E-04	1.61E-02	2.99E-02
1.37E-03	9.17E-03	3.26E-03	1.66E-04	1.58E-02	1.58E-02	4.55E-02	1.37E-03	9.17E-03	3.26E-03	1.66E-04	2.45E-04	1.58E-02	3.00E-02
1.44E-03	9.56E-03	3.24E-03	1.65E-04	1.54E-02	1.54E-02	4.52E-02	1.44E-03	9.56E-03	3.24E-03	1.65E-04	2.44E-04	1.54E-02	3.00E-02
1.51E-03	9.98E-03	3.23E-03	1.64E-04	1.50E-02	1.50E-02	4.49E-02	1.51E-03	9.98E-03	3.23E-03	1.64E-04	2.42E-04	1.50E-02	3.02E-02
1.59E-03	1.04E-02	3.22E-03	1.63E-04	1.47E-02	1.47E-02	4.48E-02	1.59E-03	1.04E-02	3.22E-03	1.63E-04	2.40E-04	1.47E-02	3.03E-02
1.69E-03	1.09E-02	3.22E-03	1.62E-04	1.43E-02	1.43E-02	4.47E-02	1.69E-03	1.09E-02	3.22E-03	1.62E-04	2.38E-04	1.43E-02	3.06E-02
1.80E-03	1.15E-02	3.22E-03	1.61E-04	1.40E-02	1.40E-02	4.48E-02	1.80E-03	1.15E-02	3.22E-03	1.61E-04	2.36E-04	1.40E-02	3.10E-02
1.93E-03	1.22E-02	3.22E-03	1.60E-04	1.37E-02	1.37E-02	4.50E-02	1.93E-03	1.22E-02	3.22E-03	1.60E-04	2.34E-04	1.37E-02	3.15E-02
2.07E-03	1.30E-02	3.23E-03	1.59E-04	1.34E-02	1.34E-02	4.52E-02	2.07E-03	1.30E-02	3.23E-03	1.59E-04	2.32E-04	1.34E-02	3.21E-02
2.25E-03	1.39E-02	3.24E-03	1.59E-04	1.31E-02	1.31E-02	4.58E-02	2.25E-03	1.39E-02	3.24E-03	1.59E-04	2.31E-04	1.31E-02	3.29E-02
2.48E-03	1.51E-02	3.25E-03	1.59E-04	1.28E-02	1.28E-02	4.67E-02	2.48E-03	1.51E-02	3.25E-03	1.59E-04	2.30E-04	1.28E-02	3.41E-02
2.75E-03	1.65E-02	3.27E-03	1.59E-04	1.26E-02	1.26E-02	4.78E-02	2.75E-03	1.65E-02	3.27E-03	1.59E-04	2.29E-04	1.26E-02	3.55E-02
3.08E-03	1.80E-02	3.28E-03	1.58E-04	1.23E-02	1.23E-02	4.91E-02	3.08E-03	1.80E-02	3.28E-03	1.58E-04	2.27E-04	1.23E-02	3.70E-02
1.05E-03	7.00E-03	3.25E-03	1.65E-04	1.74E-02	1.74E-02	4.63E-02	1.05E-03	7.00E-03	3.25E-03	1.65E-04	2.43E-04	1.74E-02	2.91E-02
1.09E-03	7.30E-03	3.23E-03	1.65E-04	1.69E-02	1.69E-02	4.56E-02	1.09E-03	7.30E-03	3.23E-03	1.65E-04	2.43E-04	1.69E-02	2.89E-02
1.14E-03	7.62E-03	3.21E-03	1.64E-04	1.65E-02	1.65E-02	4.51E-02	1.14E-03	7.62E-03	3.21E-03	1.64E-04	2.43E-04	1.65E-02	2.88E-02
1.18E-03	7.92E-03	3.19E-03	1.63E-04	1.60E-02	1.60E-02	4.45E-02	1.18E-03	7.92E-03	3.19E-03	1.63E-04	2.42E-04	1.60E-02	2.87E-02
1.23E-03	8.25E-03	3.17E-03	1.63E-04	1.56E-02	1.56E-02	4.41E-02	1.23E-03	8.25E-03	3.17E-03	1.63E-04	2.41E-04	1.56E-02	2.87E-02
1.29E-03	8.59E-03	3.16E-03	1.61E-04	1.53E-02	1.53E-02	4.37E-02	1.29E-03	8.59E-03	3.16E-03	1.61E-04	2.40E-04	1.53E-02	2.87E-02
1.35E-03	8.94E-03	3.14E-03	1.60E-04	1.49E-02	1.49E-02	4.34E-02	1.35E-03	8.94E-03	3.14E-03	1.60E-04	2.38E-04	1.49E-02	2.87E-02
1.41E-03	9.29E-03	3.13E-03	1.59E-04	1.45E-02	1.45E-02	4.30E-02	1.41E-03	9.29E-03	3.13E-03	1.59E-04	2.36E-04	1.45E-02	2.88E-02
1.48E-03	9.70E-03	3.12E-03	1.58E-04	1.42E-02	1.42E-02	4.28E-02	1.48E-03	9.70E-03	3.12E-03	1.58E-04	2.34E-04	1.42E-02	2.89E-02
1.56E-03	1.02E-02	3.12E-03	1.57E-04	1.39E-02	1.39E-02	4.28E-02	1.56E-03	1.02E-02	3.12E-03	1.57E-04	2.33E-04	1.39E-02	2.91E-02
1.66E-03	1.07E-02	3.12E-03	1.56E-04	1.35E-02	1.35E-02	4.27E-02	1.66E-03	1.07E-02	3.12E-03	1.56E-04	2.31E-04	1.35E-02	2.94E-02
1.77E-03	1.13E-02	3.12E-03	1.55E-04	1.32E-02	1.32E-02	4.28E-02	1.77E-03	1.13E-02	3.12E-03	1.55E-04	2.29E-04	1.32E-02	2.98E-02
1.89E-03	1.19E-02	3.12E-03	1.54E-04	1.29E-02	1.29E-02	4.30E-02	1.89E-03	1.19E-02	3.12E-03	1.54E-04	2.27E-04	1.29E-02	3.03E-02
2.04E-03	1.27E-02	3.13E-03	1.54E-04	1.27E-02	1.27E-02	4.34E-02	2.04E-03	1.27E-02	3.13E-03	1.54E-04	2.26E-04	1.27E-02	3.10E-02
2.23E-03	1.38E-02	3.14E-03	1.54E-04	1.24E-02	1.24E-02	4.41E-02	2.23E-03	1.38E-02	3.14E-03	1.54E-04	2.24E-04	1.24E-02	3.19E-02

2.45E-03	1.48E-02	3.15E-03	1.53E-04	1.21E-02	1.21E-02	4.49E-02	2.45E-03	1.48E-02	3.15E-03	1.53E-04	2.23E-04	1.21E-02	3.30E-02
9.68E-04	6.40E-03	3.17E-03	1.61E-04	1.73E-02	1.73E-02	4.53E-02	9.68E-04	6.40E-03	3.17E-03	1.61E-04	2.37E-04	1.73E-02	2.83E-02
1.00E-03	6.67E-03	3.15E-03	1.60E-04	1.68E-02	1.68E-02	4.46E-02	1.00E-03	6.67E-03	3.15E-03	1.60E-04	2.37E-04	1.68E-02	2.80E-02
1.04E-03	6.95E-03	3.14E-03	1.60E-04	1.63E-02	1.63E-02	4.40E-02	1.04E-03	6.95E-03	3.14E-03	1.60E-04	2.37E-04	1.63E-02	2.79E-02
1.08E-03	7.20E-03	3.12E-03	1.59E-04	1.59E-02	1.59E-02	4.34E-02	1.08E-03	7.20E-03	3.12E-03	1.59E-04	2.37E-04	1.59E-02	2.77E-02
1.12E-03	7.47E-03	3.10E-03	1.59E-04	1.55E-02	1.55E-02	4.28E-02	1.12E-03	7.47E-03	3.10E-03	1.59E-04	2.36E-04	1.55E-02	2.76E-02
1.17E-03	7.76E-03	3.08E-03	1.58E-04	1.51E-02	1.51E-02	4.23E-02	1.17E-03	7.76E-03	3.08E-03	1.58E-04	2.35E-04	1.51E-02	2.75E-02
1.21E-03	8.06E-03	3.06E-03	1.57E-04	1.47E-02	1.47E-02	4.19E-02	1.21E-03	8.06E-03	3.06E-03	1.57E-04	2.34E-04	1.47E-02	2.74E-02
1.27E-03	8.37E-03	3.05E-03	1.55E-04	1.43E-02	1.43E-02	4.15E-02	1.27E-03	8.37E-03	3.05E-03	1.55E-04	2.33E-04	1.43E-02	2.74E-02
1.33E-03	8.71E-03	3.04E-03	1.54E-04	1.40E-02	1.40E-02	4.12E-02	1.33E-03	8.71E-03	3.04E-03	1.54E-04	2.31E-04	1.40E-02	2.74E-02
1.39E-03	9.09E-03	3.03E-03	1.53E-04	1.37E-02	1.37E-02	4.10E-02	1.39E-03	9.09E-03	3.03E-03	1.53E-04	2.29E-04	1.37E-02	2.76E-02
1.47E-03	9.55E-03	3.03E-03	1.52E-04	1.33E-02	1.33E-02	4.09E-02	1.47E-03	9.55E-03	3.03E-03	1.52E-04	2.28E-04	1.33E-02	2.78E-02
1.55E-03	1.00E-02	3.02E-03	1.51E-04	1.30E-02	1.30E-02	4.08E-02	1.55E-03	1.00E-02	3.02E-03	1.51E-04	2.26E-04	1.30E-02	2.80E-02
1.65E-03	1.05E-02	3.02E-03	1.51E-04	1.27E-02	1.27E-02	4.08E-02	1.65E-03	1.05E-02	3.02E-03	1.51E-04	2.24E-04	1.27E-02	2.83E-02
1.75E-03	1.11E-02	3.02E-03	1.50E-04	1.25E-02	1.25E-02	4.09E-02	1.75E-03	1.11E-02	3.02E-03	1.50E-04	2.22E-04	1.25E-02	2.87E-02
1.89E-03	1.18E-02	3.03E-03	1.49E-04	1.22E-02	1.22E-02	4.13E-02	1.89E-03	1.18E-02	3.03E-03	1.49E-04	2.20E-04	1.22E-02	2.93E-02
2.05E-03	1.27E-02	3.03E-03	1.49E-04	1.19E-02	1.19E-02	4.18E-02	2.05E-03	1.27E-02	3.03E-03	1.49E-04	2.19E-04	1.19E-02	3.01E-02
9.00E-04	5.91E-03	3.10E-03	1.56E-04	1.72E-02	1.72E-02	4.44E-02	9.00E-04	5.91E-03	3.10E-03	1.56E-04	2.31E-04	1.72E-02	2.75E-02
9.30E-04	6.13E-03	3.08E-03	1.56E-04	1.66E-02	1.66E-02	4.36E-02	9.30E-04	6.13E-03	3.08E-03	1.56E-04	2.31E-04	1.66E-02	2.72E-02
9.62E-04	6.36E-03	3.07E-03	1.56E-04	1.62E-02	1.62E-02	4.29E-02	9.62E-04	6.36E-03	3.07E-03	1.56E-04	2.32E-04	1.62E-02	2.69E-02
9.96E-04	6.59E-03	3.05E-03	1.55E-04	1.57E-02	1.57E-02	4.22E-02	9.96E-04	6.59E-03	3.05E-03	1.55E-04	2.32E-04	1.57E-02	2.67E-02
1.03E-03	6.83E-03	3.03E-03	1.55E-04	1.53E-02	1.53E-02	4.16E-02	1.03E-03	6.83E-03	3.03E-03	1.55E-04	2.31E-04	1.53E-02	2.65E-02
1.07E-03	7.08E-03	3.01E-03	1.54E-04	1.49E-02	1.49E-02	4.10E-02	1.07E-03	7.08E-03	3.01E-03	1.54E-04	2.31E-04	1.49E-02	2.64E-02
1.11E-03	7.34E-03	2.99E-03	1.53E-04	1.45E-02	1.45E-02	4.05E-02	1.11E-03	7.34E-03	2.99E-03	1.53E-04	2.30E-04	1.45E-02	2.63E-02
1.16E-03	7.61E-03	2.98E-03	1.52E-04	1.41E-02	1.41E-02	4.01E-02	1.16E-03	7.61E-03	2.98E-03	1.52E-04	2.29E-04	1.41E-02	2.62E-02
1.20E-03	7.90E-03	2.96E-03	1.51E-04	1.38E-02	1.38E-02	3.97E-02	1.20E-03	7.90E-03	2.96E-03	1.51E-04	2.27E-04	1.38E-02	2.62E-02
1.26E-03	8.22E-03	2.95E-03	1.50E-04	1.34E-02	1.34E-02	3.94E-02	1.26E-03	8.22E-03	2.95E-03	1.50E-04	2.26E-04	1.34E-02	2.62E-02
1.32E-03	8.59E-03	2.94E-03	1.49E-04	1.31E-02	1.31E-02	3.92E-02	1.32E-03	8.59E-03	2.94E-03	1.49E-04	2.24E-04	1.31E-02	2.63E-02
1.39E-03	8.99E-03	2.94E-03	1.48E-04	1.28E-02	1.28E-02	3.90E-02	1.39E-03	8.99E-03	2.94E-03	1.48E-04	2.23E-04	1.28E-02	2.65E-02
1.46E-03	9.43E-03	2.93E-03	1.47E-04	1.25E-02	1.25E-02	3.90E-02	1.46E-03	9.43E-03	2.93E-03	1.47E-04	2.21E-04	1.25E-02	2.67E-02
1.55E-03	9.91E-03	2.93E-03	1.46E-04	1.22E-02	1.22E-02	3.90E-02	1.55E-03	9.91E-03	2.93E-03	1.46E-04	2.19E-04	1.22E-02	2.70E-02
1.65E-03	1.05E-02	2.93E-03	1.46E-04	1.20E-02	1.20E-02	3.91E-02	1.65E-03	1.05E-02	2.93E-03	1.46E-04	2.17E-04	1.20E-02	2.73E-02
8.43E-04	5.47E-03	3.03E-03	1.52E-04	1.69E-02	1.69E-02	4.34E-02	8.43E-04	5.47E-03	3.03E-03	1.52E-04	2.24E-04	1.69E-02	2.66E-02
8.69E-04	5.66E-03	3.02E-03	1.52E-04	1.64E-02	1.64E-02	4.25E-02	8.69E-04	5.66E-03	3.02E-03	1.52E-04	2.25E-04	1.64E-02	2.63E-02
8.96E-04	5.86E-03	3.00E-03	1.52E-04	1.59E-02	1.59E-02	4.17E-02	8.96E-04	5.86E-03	3.00E-03	1.52E-04	2.26E-04	1.59E-02	2.60E-02
9.26E-04	6.07E-03	2.98E-03	1.51E-04	1.54E-02	1.54E-02	4.10E-02	9.26E-04	6.07E-03	2.98E-03	1.51E-04	2.26E-04	1.54E-02	2.58E-02
9.57E-04	6.27E-03	2.96E-03	1.51E-04	1.50E-02	1.50E-02	4.03E-02	9.57E-04	6.27E-03	2.96E-03	1.51E-04	2.26E-04	1.50E-02	2.55E-02
9.90E-04	6.48E-03	2.94E-03	1.50E-04	1.46E-02	1.46E-02	3.97E-02	9.90E-04	6.48E-03	2.94E-03	1.50E-04	2.26E-04	1.46E-02	2.54E-02
1.03E-03	6.72E-03	2.92E-03	1.50E-04	1.42E-02	1.42E-02	3.92E-02	1.03E-03	6.72E-03	2.92E-03	1.50E-04	2.26E-04	1.42E-02	2.52E-02
1.06E-03	6.96E-03	2.91E-03	1.49E-04	1.38E-02	1.38E-02	3.87E-02	1.06E-03	6.96E-03	2.91E-03	1.49E-04	2.25E-04	1.38E-02	2.51E-02
1.11E-03	7.22E-03	2.89E-03	1.48E-04	1.35E-02	1.35E-02	3.83E-02	1.11E-03	7.22E-03	2.89E-03	1.48E-04	2.24E-04	1.35E-02	2.51E-02
1.15E-03	7.48E-03	2.88E-03	1.47E-04	1.31E-02	1.31E-02	3.79E-02	1.15E-03	7.48E-03	2.88E-03	1.47E-04	2.22E-04	1.31E-02	2.50E-02
1.20E-03	7.78E-03	2.87E-03	1.46E-04	1.28E-02	1.28E-02	3.76E-02	1.20E-03	7.78E-03	2.87E-03	1.46E-04	2.21E-04	1.28E-02	2.50E-02
1.26E-03	8.11E-03	2.86E-03	1.45E-04	1.25E-02	1.25E-02	3.74E-02	1.26E-03	8.11E-03	2.86E-03	1.45E-04	2.19E-04	1.25E-02	2.51E-02
1.32E-03	8.50E-03	2.85E-03	1.44E-04	1.22E-02	1.22E-02	3.73E-02	1.32E-03	8.50E-03	2.85E-03	1.44E-04	2.18E-04	1.22E-02	2.53E-02
1.39E-03	8.91E-03	2.85E-03	1.43E-04	1.19E-02	1.19E-02	3.72E-02	1.39E-03	8.91E-03	2.85E-03	1.43E-04	2.16E-04	1.19E-02	2.55E-02
1.48E-03	9.38E-03	2.84E-03	1.42E-04	1.17E-02	1.17E-02	3.72E-02	1.48E-03	9.38E-03	2.84E-03	1.42E-04	2.14E-04	1.17E-02	2.57E-02
7.96E-04	5.08E-03	2.97E-03	1.47E-04	1.66E-02	1.66E-02	4.21E-02	7.96E-04	5.08E-03	2.97E-03	1.47E-04	2.18E-04	1.66E-02	2.58E-02
8.18E-04	5.26E-03	2.95E-03	1.48E-04	1.60E-02	1.60E-02	4.12E-02	8.18E-04	5.26E-03	2.95E-03	1.48E-04	2.19E-04	1.60E-02	2.54E-02
8.41E-04	5.43E-03	2.94E-03	1.48E-04	1.55E-02	1.55E-02	4.04E-02	8.41E-04	5.43E-03	2.94E-03	1.48E-04	2.20E-04	1.55E-02	2.51E-02
8.67E-04	5.62E-03	2.92E-03	1.48E-04	1.51E-02	1.51E-02	3.97E-02	8.67E-04	5.62E-03	2.92E-03	1.48E-04	2.21E-04	1.51E-02	2.48E-02
8.94E-04	5.79E-03	2.90E-03	1.47E-04	1.46E-02	1.46E-02	3.90E-02	8.94E-04	5.79E-03	2.90E-03	1.47E-04	2.21E-04	1.46E-02	2.46E-02
9.23E-04	5.98E-03	2.88E-03	1.47E-04	1.42E-02	1.42E-02	3.84E-02	9.23E-04	5.98E-03	2.88E-03	1.47E-04	2.21E-04	1.42E-02	2.44E-02
9.54E-04	6.18E-03	2.86E-03	1.46E-04	1.38E-02	1.38E-02	3.78E-02	9.54E-04	6.18E-03	2.86E-03	1.46E-04	2.21E-04	1.38E-02	2.42E-02

9.88E-04	6.39E-03	2.85E-03	1.46E-04	1.35E-02	1.35E-02	3.73E-02	9.88E-04	6.39E-03	2.85E-03	1.46E-04	2.21E-04	1.35E-02	2.41E-02
1.02E-03	6.61E-03	2.83E-03	1.45E-04	1.31E-02	1.31E-02	3.69E-02	1.02E-03	6.61E-03	2.83E-03	1.45E-04	2.20E-04	1.31E-02	2.40E-02
1.06E-03	6.87E-03	2.81E-03	1.44E-04	1.28E-02	1.28E-02	3.65E-02	1.06E-03	6.87E-03	2.81E-03	1.44E-04	2.19E-04	1.28E-02	2.39E-02
1.11E-03	7.11E-03	2.80E-03	1.43E-04	1.25E-02	1.25E-02	3.61E-02	1.11E-03	7.11E-03	2.80E-03	1.43E-04	2.18E-04	1.25E-02	2.39E-02
1.16E-03	7.40E-03	2.79E-03	1.42E-04	1.22E-02	1.22E-02	3.59E-02	1.16E-03	7.40E-03	2.79E-03	1.42E-04	2.16E-04	1.22E-02	2.39E-02
1.21E-03	7.72E-03	2.78E-03	1.41E-04	1.19E-02	1.19E-02	3.57E-02	1.21E-03	7.72E-03	2.78E-03	1.41E-04	2.15E-04	1.19E-02	2.40E-02
1.27E-03	8.07E-03	2.77E-03	1.40E-04	1.16E-02	1.16E-02	3.55E-02	1.27E-03	8.07E-03	2.77E-03	1.40E-04	2.13E-04	1.16E-02	2.41E-02
1.34E-03	8.49E-03	2.77E-03	1.40E-04	1.14E-02	1.14E-02	3.55E-02	1.34E-03	8.49E-03	2.77E-03	1.40E-04	2.12E-04	1.14E-02	2.44E-02
7.55E-04	4.74E-03	2.90E-03	1.43E-04	1.61E-02	1.61E-02	4.08E-02	7.55E-04	4.74E-03	2.90E-03	1.43E-04	2.12E-04	1.61E-02	2.49E-02
7.75E-04	4.90E-03	2.89E-03	1.43E-04	1.56E-02	1.56E-02	3.99E-02	7.75E-04	4.90E-03	2.89E-03	1.43E-04	2.14E-04	1.56E-02	2.45E-02
7.95E-04	5.04E-03	2.88E-03	1.43E-04	1.51E-02	1.51E-02	3.90E-02	7.95E-04	5.04E-03	2.88E-03	1.43E-04	2.14E-04	1.51E-02	2.42E-02
8.17E-04	5.21E-03	2.86E-03	1.44E-04	1.46E-02	1.46E-02	3.83E-02	8.17E-04	5.21E-03	2.86E-03	1.44E-04	2.15E-04	1.46E-02	2.39E-02
8.41E-04	5.37E-03	2.84E-03	1.43E-04	1.42E-02	1.42E-02	3.76E-02	8.41E-04	5.37E-03	2.84E-03	1.43E-04	2.16E-04	1.42E-02	2.36E-02
8.66E-04	5.54E-03	2.82E-03	1.43E-04	1.38E-02	1.38E-02	3.70E-02	8.66E-04	5.54E-03	2.82E-03	1.43E-04	2.16E-04	1.38E-02	2.34E-02
8.93E-04	5.71E-03	2.81E-03	1.43E-04	1.34E-02	1.34E-02	3.64E-02	8.93E-04	5.71E-03	2.81E-03	1.43E-04	2.16E-04	1.34E-02	2.32E-02
9.23E-04	5.90E-03	2.79E-03	1.42E-04	1.31E-02	1.31E-02	3.59E-02	9.23E-04	5.90E-03	2.79E-03	1.42E-04	2.16E-04	1.31E-02	2.30E-02
9.55E-04	6.10E-03	2.77E-03	1.42E-04	1.27E-02	1.27E-02	3.55E-02	9.55E-04	6.10E-03	2.77E-03	1.42E-04	2.16E-04	1.27E-02	2.29E-02
9.90E-04	6.32E-03	2.75E-03	1.41E-04	1.24E-02	1.24E-02	3.51E-02	9.90E-04	6.32E-03	2.75E-03	1.41E-04	2.15E-04	1.24E-02	2.28E-02
1.03E-03	6.55E-03	2.74E-03	1.40E-04	1.21E-02	1.21E-02	3.47E-02	1.03E-03	6.55E-03	2.74E-03	1.40E-04	2.14E-04	1.21E-02	2.28E-02
1.07E-03	6.78E-03	2.72E-03	1.39E-04	1.18E-02	1.18E-02	3.44E-02	1.07E-03	6.78E-03	2.72E-03	1.39E-04	2.13E-04	1.18E-02	2.28E-02
1.12E-03	7.06E-03	2.71E-03	1.38E-04	1.16E-02	1.16E-02	3.42E-02	1.12E-03	7.06E-03	2.71E-03	1.38E-04	2.12E-04	1.16E-02	2.28E-02
1.17E-03	7.35E-03	2.70E-03	1.37E-04	1.13E-02	1.13E-02	3.40E-02	1.17E-03	7.35E-03	2.70E-03	1.37E-04	2.10E-04	1.13E-02	2.29E-02
1.23E-03	7.68E-03	2.70E-03	1.37E-04	1.11E-02	1.11E-02	3.39E-02	1.23E-03	7.68E-03	2.70E-03	1.37E-04	2.09E-04	1.11E-02	2.30E-02
7.38E-04	4.57E-03	2.83E-03	1.39E-04	1.50E-02	1.50E-02	3.83E-02	7.38E-04	4.57E-03	2.83E-03	1.39E-04	2.08E-04	1.50E-02	2.35E-02
7.57E-04	4.71E-03	2.82E-03	1.40E-04	1.46E-02	1.46E-02	3.75E-02	7.57E-04	4.71E-03	2.82E-03	1.40E-04	2.09E-04	1.46E-02	2.32E-02
7.76E-04	4.85E-03	2.80E-03	1.40E-04	1.41E-02	1.41E-02	3.68E-02	7.76E-04	4.85E-03	2.80E-03	1.40E-04	2.10E-04	1.41E-02	2.29E-02
7.96E-04	5.00E-03	2.79E-03	1.40E-04	1.37E-02	1.37E-02	3.61E-02	7.96E-04	5.00E-03	2.79E-03	1.40E-04	2.10E-04	1.37E-02	2.26E-02
8.18E-04	5.14E-03	2.77E-03	1.39E-04	1.33E-02	1.33E-02	3.55E-02	8.18E-04	5.14E-03	2.77E-03	1.39E-04	2.11E-04	1.33E-02	2.24E-02
8.42E-04	5.30E-03	2.75E-03	1.39E-04	1.30E-02	1.30E-02	3.50E-02	8.42E-04	5.30E-03	2.75E-03	1.39E-04	2.11E-04	1.30E-02	2.22E-02
8.68E-04	5.47E-03	2.73E-03	1.39E-04	1.26E-02	1.26E-02	3.45E-02	8.68E-04	5.47E-03	2.73E-03	1.39E-04	2.11E-04	1.26E-02	2.20E-02
8.96E-04	5.64E-03	2.71E-03	1.38E-04	1.23E-02	1.23E-02	3.40E-02	8.96E-04	5.64E-03	2.71E-03	1.38E-04	2.11E-04	1.23E-02	2.19E-02
9.27E-04	5.84E-03	2.70E-03	1.38E-04	1.20E-02	1.20E-02	3.36E-02	9.27E-04	5.84E-03	2.70E-03	1.38E-04	2.11E-04	1.20E-02	2.18E-02
9.60E-04	6.03E-03	2.68E-03	1.37E-04	1.17E-02	1.17E-02	3.33E-02	9.60E-04	6.03E-03	2.68E-03	1.37E-04	2.10E-04	1.17E-02	2.17E-02
9.97E-04	6.24E-03	2.67E-03	1.36E-04	1.15E-02	1.15E-02	3.30E-02	9.97E-04	6.24E-03	2.67E-03	1.36E-04	2.09E-04	1.15E-02	2.17E-02
1.04E-03	6.47E-03	2.65E-03	1.36E-04	1.12E-02	1.12E-02	3.27E-02	1.04E-03	6.47E-03	2.65E-03	1.36E-04	2.08E-04	1.12E-02	2.17E-02
1.08E-03	6.74E-03	2.64E-03	1.35E-04	1.10E-02	1.10E-02	3.25E-02	1.08E-03	6.74E-03	2.64E-03	1.35E-04	2.07E-04	1.10E-02	2.18E-02
1.13E-03	7.01E-03	2.63E-03	1.34E-04	1.07E-02	1.07E-02	3.24E-02	1.13E-03	7.01E-03	2.63E-03	1.34E-04	2.06E-04	1.07E-02	2.18E-02
7.09E-04	4.30E-03	2.77E-03	1.36E-04	1.44E-02	1.44E-02	3.67E-02	7.09E-04	4.30E-03	2.77E-03	1.36E-04	2.02E-04	1.44E-02	2.25E-02
7.24E-04	4.42E-03	2.76E-03	1.36E-04	1.40E-02	1.40E-02	3.59E-02	7.24E-04	4.42E-03	2.76E-03	1.36E-04	2.03E-04	1.40E-02	2.22E-02
7.41E-04	4.54E-03	2.74E-03	1.36E-04	1.35E-02	1.35E-02	3.52E-02	7.41E-04	4.54E-03	2.74E-03	1.36E-04	2.04E-04	1.35E-02	2.19E-02
7.59E-04	4.67E-03	2.73E-03	1.36E-04	1.32E-02	1.32E-02	3.46E-02	7.59E-04	4.67E-03	2.73E-03	1.36E-04	2.05E-04	1.32E-02	2.17E-02
7.78E-04	4.80E-03	2.71E-03	1.36E-04	1.28E-02	1.28E-02	3.40E-02	7.78E-04	4.80E-03	2.71E-03	1.36E-04	2.06E-04	1.28E-02	2.14E-02
8.00E-04	4.94E-03	2.70E-03	1.36E-04	1.25E-02	1.25E-02	3.35E-02	8.00E-04	4.94E-03	2.70E-03	1.36E-04	2.06E-04	1.25E-02	2.12E-02
8.23E-04	5.10E-03	2.68E-03	1.36E-04	1.22E-02	1.22E-02	3.30E-02	8.23E-04	5.10E-03	2.68E-03	1.36E-04	2.07E-04	1.22E-02	2.11E-02
8.47E-04	5.25E-03	2.66E-03	1.35E-04	1.19E-02	1.19E-02	3.26E-02	8.47E-04	5.25E-03	2.66E-03	1.35E-04	2.07E-04	1.19E-02	2.10E-02
8.74E-04	5.41E-03	2.65E-03	1.35E-04	1.16E-02	1.16E-02	3.22E-02	8.74E-04	5.41E-03	2.65E-03	1.35E-04	2.07E-04	1.16E-02	2.08E-02
9.02E-04	5.57E-03	2.63E-03	1.34E-04	1.13E-02	1.13E-02	3.18E-02	9.02E-04	5.57E-03	2.63E-03	1.34E-04	2.06E-04	1.13E-02	2.07E-02
9.35E-04	5.77E-03	2.61E-03	1.34E-04	1.10E-02	1.10E-02	3.15E-02	9.35E-04	5.77E-03	2.61E-03	1.34E-04	2.06E-04	1.10E-02	2.07E-02
9.69E-04	5.96E-03	2.60E-03	1.33E-04	1.08E-02	1.08E-02	3.13E-02	9.69E-04	5.96E-03	2.60E-03	1.33E-04	2.05E-04	1.08E-02	2.07E-02
1.01E-03	6.18E-03	2.59E-03	1.32E-04	1.06E-02	1.06E-02	3.11E-02	1.01E-03	6.18E-03	2.59E-03	1.32E-04	2.04E-04	1.06E-02	2.07E-02
1.05E-03	6.42E-03	2.57E-03	1.31E-04	1.04E-02	1.04E-02	3.09E-02	1.05E-03	6.42E-03	2.57E-03	1.31E-04	2.03E-04	1.04E-02	2.07E-02
6.83E-04	4.05E-03	2.71E-03	1.32E-04	1.37E-02	1.37E-02	3.50E-02	6.83E-04	4.05E-03	2.71E-03	1.32E-04	1.97E-04	1.37E-02	2.15E-02
6.97E-04	4.17E-03	2.71E-03	1.33E-04	1.33E-02	1.33E-02	3.43E-02	6.97E-04	4.17E-03	2.71E-03	1.33E-04	1.98E-04	1.33E-02	2.12E-02
7.12E-04	4.26E-03	2.69E-03	1.32E-04	1.29E-02	1.29E-02	3.36E-02	7.12E-04	4.26E-03	2.69E-03	1.32E-04	1.99E-04	1.29E-02	2.09E-02

7.28E-04	4.37E-03	2.68E-03	1.32E-04	1.26E-02	1.26E-02	3.30E-02	7.28E-04	4.37E-03	2.68E-03	1.32E-04	2.00E-04	1.26E-02	2.07E-02
7.45E-04	4.49E-03	2.66E-03	1.32E-04	1.22E-02	1.22E-02	3.25E-02	7.45E-04	4.49E-03	2.66E-03	1.32E-04	2.01E-04	1.22E-02	2.05E-02
7.64E-04	4.63E-03	2.65E-03	1.33E-04	1.19E-02	1.19E-02	3.20E-02	7.64E-04	4.63E-03	2.65E-03	1.33E-04	2.01E-04	1.19E-02	2.03E-02
7.84E-04	4.77E-03	2.63E-03	1.33E-04	1.16E-02	1.16E-02	3.16E-02	7.84E-04	4.77E-03	2.63E-03	1.33E-04	2.02E-04	1.16E-02	2.02E-02
8.06E-04	4.91E-03	2.62E-03	1.32E-04	1.14E-02	1.14E-02	3.12E-02	8.06E-04	4.91E-03	2.62E-03	1.32E-04	2.03E-04	1.14E-02	2.00E-02
8.30E-04	5.09E-03	2.61E-03	1.32E-04	1.11E-02	1.11E-02	3.09E-02	8.30E-04	5.09E-03	2.61E-03	1.32E-04	2.03E-04	1.11E-02	2.00E-02
8.55E-04	5.19E-03	2.58E-03	1.32E-04	1.09E-02	1.09E-02	3.05E-02	8.55E-04	5.19E-03	2.58E-03	1.32E-04	2.02E-04	1.09E-02	1.98E-02
8.82E-04	5.34E-03	2.56E-03	1.31E-04	1.06E-02	1.06E-02	3.02E-02	8.82E-04	5.34E-03	2.56E-03	1.31E-04	2.02E-04	1.06E-02	1.97E-02
9.13E-04	5.52E-03	2.55E-03	1.30E-04	1.04E-02	1.04E-02	2.99E-02	9.13E-04	5.52E-03	2.55E-03	1.30E-04	2.02E-04	1.04E-02	1.97E-02
9.46E-04	5.70E-03	2.53E-03	1.30E-04	1.02E-02	1.02E-02	2.97E-02	9.46E-04	5.70E-03	2.53E-03	1.30E-04	2.01E-04	1.02E-02	1.97E-02
9.84E-04	5.91E-03	2.52E-03	1.29E-04	9.98E-03	9.98E-03	2.95E-02	9.84E-04	5.91E-03	2.52E-03	1.29E-04	2.00E-04	9.98E-03	1.97E-02
6.59E-04	3.83E-03	2.66E-03	1.29E-04	1.30E-02	1.30E-02	3.32E-02	6.59E-04	3.83E-03	2.66E-03	1.29E-04	1.92E-04	1.30E-02	2.04E-02
6.71E-04	3.88E-03	2.64E-03	1.28E-04	1.26E-02	1.26E-02	3.25E-02	6.71E-04	3.88E-03	2.64E-03	1.28E-04	1.92E-04	1.26E-02	2.01E-02
6.85E-04	4.00E-03	2.63E-03	1.29E-04	1.23E-02	1.23E-02	3.20E-02	6.85E-04	4.00E-03	2.63E-03	1.29E-04	1.93E-04	1.23E-02	1.99E-02
7.00E-04	4.11E-03	2.62E-03	1.29E-04	1.20E-02	1.20E-02	3.15E-02	7.00E-04	4.11E-03	2.62E-03	1.29E-04	1.95E-04	1.20E-02	1.97E-02
7.17E-04	4.21E-03	2.61E-03	1.29E-04	1.17E-02	1.17E-02	3.10E-02	7.17E-04	4.21E-03	2.61E-03	1.29E-04	1.95E-04	1.17E-02	1.95E-02
7.33E-04	4.32E-03	2.60E-03	1.29E-04	1.14E-02	1.14E-02	3.05E-02	7.33E-04	4.32E-03	2.60E-03	1.29E-04	1.96E-04	1.14E-02	1.94E-02
7.52E-04	4.48E-03	2.59E-03	1.30E-04	1.11E-02	1.11E-02	3.02E-02	7.52E-04	4.48E-03	2.59E-03	1.30E-04	1.98E-04	1.11E-02	1.93E-02
7.71E-04	4.63E-03	2.58E-03	1.30E-04	1.09E-02	1.09E-02	2.99E-02	7.71E-04	4.63E-03	2.58E-03	1.30E-04	1.99E-04	1.09E-02	1.92E-02
7.93E-04	4.75E-03	2.56E-03	1.29E-04	1.06E-02	1.06E-02	2.95E-02	7.93E-04	4.75E-03	2.56E-03	1.29E-04	1.99E-04	1.06E-02	1.91E-02
8.14E-04	4.82E-03	2.53E-03	1.29E-04	1.04E-02	1.04E-02	2.91E-02	8.14E-04	4.82E-03	2.53E-03	1.29E-04	1.98E-04	1.04E-02	1.89E-02
8.38E-04	4.96E-03	2.52E-03	1.28E-04	1.02E-02	1.02E-02	2.88E-02	8.38E-04	4.96E-03	2.52E-03	1.28E-04	1.98E-04	1.02E-02	1.88E-02
8.65E-04	5.11E-03	2.50E-03	1.28E-04	9.98E-03	9.98E-03	2.86E-02	8.65E-04	5.11E-03	2.50E-03	1.28E-04	1.98E-04	9.98E-03	1.88E-02
8.94E-04	5.28E-03	2.49E-03	1.27E-04	9.78E-03	9.78E-03	2.84E-02	8.94E-04	5.28E-03	2.49E-03	1.27E-04	1.97E-04	9.78E-03	1.88E-02
9.26E-04	5.44E-03	2.47E-03	1.26E-04	9.60E-03	9.60E-03	2.82E-02	9.26E-04	5.44E-03	2.47E-03	1.26E-04	1.97E-04	9.60E-03	1.88E-02
6.34E-04	3.65E-03	2.61E-03	1.26E-04	1.22E-02	1.22E-02	3.15E-02	6.34E-04	3.65E-03	2.61E-03	1.26E-04	1.88E-04	1.22E-02	1.94E-02
6.48E-04	3.71E-03	2.59E-03	1.26E-04	1.19E-02	1.19E-02	3.09E-02	6.48E-04	3.71E-03	2.59E-03	1.26E-04	1.88E-04	1.19E-02	1.92E-02
6.61E-04	3.77E-03	2.58E-03	1.26E-04	1.16E-02	1.16E-02	3.03E-02	6.61E-04	3.77E-03	2.58E-03	1.26E-04	1.88E-04	1.16E-02	1.89E-02
6.75E-04	3.86E-03	2.57E-03	1.26E-04	1.13E-02	1.13E-02	2.99E-02	6.75E-04	3.86E-03	2.57E-03	1.26E-04	1.89E-04	1.13E-02	1.87E-02
6.90E-04	3.96E-03	2.56E-03	1.26E-04	1.11E-02	1.11E-02	2.95E-02	6.90E-04	3.96E-03	2.56E-03	1.26E-04	1.90E-04	1.11E-02	1.86E-02
7.06E-04	4.06E-03	2.55E-03	1.26E-04	1.08E-02	1.08E-02	2.91E-02	7.06E-04	4.06E-03	2.55E-03	1.26E-04	1.91E-04	1.08E-02	1.85E-02
7.22E-04	4.16E-03	2.53E-03	1.26E-04	1.06E-02	1.06E-02	2.87E-02	7.22E-04	4.16E-03	2.53E-03	1.26E-04	1.92E-04	1.06E-02	1.83E-02
7.40E-04	4.28E-03	2.52E-03	1.26E-04	1.04E-02	1.04E-02	2.84E-02	7.40E-04	4.28E-03	2.52E-03	1.26E-04	1.93E-04	1.04E-02	1.82E-02
7.60E-04	4.41E-03	2.51E-03	1.26E-04	1.02E-02	1.02E-02	2.81E-02	7.60E-04	4.41E-03	2.51E-03	1.26E-04	1.94E-04	1.02E-02	1.82E-02
7.80E-04	4.51E-03	2.49E-03	1.26E-04	9.94E-03	9.94E-03	2.78E-02	7.80E-04	4.51E-03	2.49E-03	1.26E-04	1.94E-04	9.94E-03	1.80E-02
8.02E-04	4.64E-03	2.47E-03	1.25E-04	9.75E-03	9.75E-03	2.75E-02	8.02E-04	4.64E-03	2.47E-03	1.25E-04	1.94E-04	9.75E-03	1.80E-02
8.25E-04	4.76E-03	2.46E-03	1.25E-04	9.56E-03	9.56E-03	2.73E-02	8.25E-04	4.76E-03	2.46E-03	1.25E-04	1.94E-04	9.56E-03	1.79E-02
8.51E-04	4.89E-03	2.44E-03	1.25E-04	9.38E-03	9.38E-03	2.71E-02	8.51E-04	4.89E-03	2.44E-03	1.25E-04	1.94E-04	9.38E-03	1.79E-02
8.79E-04	5.04E-03	2.43E-03	1.24E-04	9.21E-03	9.21E-03	2.69E-02	8.79E-04	5.04E-03	2.43E-03	1.24E-04	1.93E-04	9.21E-03	1.79E-02
6.11E-04	3.45E-03	2.55E-03	1.23E-04	1.15E-02	1.15E-02	2.97E-02	6.11E-04	3.45E-03	2.55E-03	1.23E-04	1.83E-04	1.15E-02	1.84E-02
6.23E-04	3.55E-03	2.55E-03	1.23E-04	1.12E-02	1.12E-02	2.93E-02	6.23E-04	3.55E-03	2.55E-03	1.23E-04	1.85E-04	1.12E-02	1.82E-02
6.36E-04	3.60E-03	2.53E-03	1.23E-04	1.10E-02	1.10E-02	2.88E-02	6.36E-04	3.60E-03	2.53E-03	1.23E-04	1.85E-04	1.10E-02	1.80E-02
6.49E-04	3.63E-03	2.51E-03	1.22E-04	1.07E-02	1.07E-02	2.83E-02	6.49E-04	3.63E-03	2.51E-03	1.22E-04	1.84E-04	1.07E-02	1.78E-02
6.64E-04	3.73E-03	2.51E-03	1.23E-04	1.05E-02	1.05E-02	2.80E-02	6.64E-04	3.73E-03	2.51E-03	1.23E-04	1.86E-04	1.05E-02	1.77E-02
6.79E-04	3.82E-03	2.50E-03	1.23E-04	1.03E-02	1.03E-02	2.76E-02	6.79E-04	3.82E-03	2.50E-03	1.23E-04	1.86E-04	1.03E-02	1.76E-02
6.94E-04	3.91E-03	2.49E-03	1.23E-04	1.00E-02	1.00E-02	2.73E-02	6.94E-04	3.91E-03	2.49E-03	1.23E-04	1.87E-04	1.00E-02	1.74E-02
7.11E-04	3.99E-03	2.47E-03	1.23E-04	9.84E-03	9.84E-03	2.70E-02	7.11E-04	3.99E-03	2.47E-03	1.23E-04	1.88E-04	9.84E-03	1.73E-02
7.29E-04	4.10E-03	2.46E-03	1.23E-04	9.65E-03	9.65E-03	2.67E-02	7.29E-04	4.10E-03	2.46E-03	1.23E-04	1.89E-04	9.65E-03	1.72E-02
7.48E-04	4.21E-03	2.44E-03	1.23E-04	9.47E-03	9.47E-03	2.65E-02	7.48E-04	4.21E-03	2.44E-03	1.23E-04	1.89E-04	9.47E-03	1.72E-02
7.69E-04	4.33E-03	2.43E-03	1.23E-04	9.30E-03	9.30E-03	2.63E-02	7.69E-04	4.33E-03	2.43E-03	1.23E-04	1.90E-04	9.30E-03	1.71E-02
7.91E-04	4.45E-03	2.42E-03	1.23E-04	9.14E-03	9.14E-03	2.61E-02	7.91E-04	4.45E-03	2.42E-03	1.23E-04	1.90E-04	9.14E-03	1.71E-02
8.14E-04	4.56E-03	2.40E-03	1.22E-04	8.98E-03	8.98E-03	2.59E-02	8.14E-04	4.56E-03	2.40E-03	1.22E-04	1.90E-04	8.98E-03	1.71E-02
8.39E-04	4.71E-03	2.39E-03	1.22E-04	8.83E-03	8.83E-03	2.57E-02	8.39E-04	4.71E-03	2.39E-03	1.22E-04	1.90E-04	8.83E-03	1.71E-02
5.87E-04	3.23E-03	2.47E-03	1.19E-04	1.07E-02	1.07E-02	2.78E-02	5.87E-04	3.23E-03	2.47E-03	1.19E-04	1.78E-04	1.07E-02	1.73E-02

5.98E-04	3.29E-03	2.47E-03	1.19E-04	1.05E-02	1.05E-02	2.74E-02	5.98E-04	3.29E-03	2.47E-03	1.19E-04	1.78E-04	1.05E-02	1.71E-02
6.11E-04	3.36E-03	2.47E-03	1.19E-04	1.03E-02	1.03E-02	2.71E-02	6.11E-04	3.36E-03	2.47E-03	1.19E-04	1.79E-04	1.03E-02	1.70E-02
6.24E-04	3.43E-03	2.46E-03	1.19E-04	1.01E-02	1.01E-02	2.68E-02	6.24E-04	3.43E-03	2.46E-03	1.19E-04	1.80E-04	1.01E-02	1.69E-02
6.38E-04	3.51E-03	2.45E-03	1.19E-04	9.87E-03	9.87E-03	2.65E-02	6.38E-04	3.51E-03	2.45E-03	1.19E-04	1.81E-04	9.87E-03	1.68E-02
6.52E-04	3.60E-03	2.45E-03	1.20E-04	9.69E-03	9.69E-03	2.62E-02	6.52E-04	3.60E-03	2.45E-03	1.20E-04	1.82E-04	9.69E-03	1.67E-02
6.68E-04	3.71E-03	2.45E-03	1.20E-04	9.53E-03	9.53E-03	2.60E-02	6.68E-04	3.71E-03	2.45E-03	1.20E-04	1.83E-04	9.53E-03	1.67E-02
6.84E-04	3.78E-03	2.43E-03	1.20E-04	9.35E-03	9.35E-03	2.57E-02	6.84E-04	3.78E-03	2.43E-03	1.20E-04	1.84E-04	9.35E-03	1.65E-02
7.00E-04	3.83E-03	2.41E-03	1.20E-04	9.16E-03	9.16E-03	2.54E-02	7.00E-04	3.83E-03	2.41E-03	1.20E-04	1.84E-04	9.16E-03	1.64E-02
7.17E-04	3.92E-03	2.40E-03	1.20E-04	9.00E-03	9.00E-03	2.52E-02	7.17E-04	3.92E-03	2.40E-03	1.20E-04	1.85E-04	9.00E-03	1.63E-02
7.36E-04	4.02E-03	2.38E-03	1.20E-04	8.85E-03	8.85E-03	2.50E-02	7.36E-04	4.02E-03	2.38E-03	1.20E-04	1.85E-04	8.85E-03	1.63E-02
7.57E-04	4.14E-03	2.37E-03	1.20E-04	8.71E-03	8.71E-03	2.48E-02	7.57E-04	4.14E-03	2.37E-03	1.20E-04	1.86E-04	8.71E-03	1.63E-02
7.80E-04	4.27E-03	2.36E-03	1.20E-04	8.58E-03	8.58E-03	2.47E-02	7.80E-04	4.27E-03	2.36E-03	1.20E-04	1.87E-04	8.58E-03	1.63E-02
5.63E-04	3.04E-03	2.41E-03	1.16E-04	9.97E-03	9.97E-03	2.61E-02	5.63E-04	3.04E-03	2.41E-03	1.16E-04	1.73E-04	9.97E-03	1.63E-02
5.74E-04	3.10E-03	2.41E-03	1.16E-04	9.79E-03	9.79E-03	2.58E-02	5.74E-04	3.10E-03	2.41E-03	1.16E-04	1.74E-04	9.79E-03	1.62E-02
5.86E-04	3.17E-03	2.41E-03	1.16E-04	9.62E-03	9.62E-03	2.55E-02	5.86E-04	3.17E-03	2.41E-03	1.16E-04	1.74E-04	9.62E-03	1.61E-02
5.98E-04	3.23E-03	2.40E-03	1.16E-04	9.45E-03	9.45E-03	2.53E-02	5.98E-04	3.23E-03	2.40E-03	1.16E-04	1.75E-04	9.45E-03	1.60E-02
6.12E-04	3.30E-03	2.40E-03	1.16E-04	9.29E-03	9.29E-03	2.50E-02	6.12E-04	3.30E-03	2.40E-03	1.16E-04	1.76E-04	9.29E-03	1.59E-02
6.25E-04	3.39E-03	2.40E-03	1.17E-04	9.14E-03	9.14E-03	2.48E-02	6.25E-04	3.39E-03	2.40E-03	1.17E-04	1.77E-04	9.14E-03	1.58E-02
6.40E-04	3.46E-03	2.39E-03	1.17E-04	8.99E-03	8.99E-03	2.46E-02	6.40E-04	3.46E-03	2.39E-03	1.17E-04	1.78E-04	8.99E-03	1.58E-02
6.56E-04	3.55E-03	2.39E-03	1.17E-04	8.85E-03	8.85E-03	2.44E-02	6.56E-04	3.55E-03	2.39E-03	1.17E-04	1.79E-04	8.85E-03	1.57E-02
6.71E-04	3.62E-03	2.37E-03	1.17E-04	8.70E-03	8.70E-03	2.42E-02	6.71E-04	3.62E-03	2.37E-03	1.17E-04	1.80E-04	8.70E-03	1.57E-02
6.87E-04	3.67E-03	2.35E-03	1.17E-04	8.54E-03	8.54E-03	2.39E-02	6.87E-04	3.67E-03	2.35E-03	1.17E-04	1.80E-04	8.54E-03	1.55E-02
7.05E-04	3.75E-03	2.34E-03	1.17E-04	8.40E-03	8.40E-03	2.37E-02	7.05E-04	3.75E-03	2.34E-03	1.17E-04	1.81E-04	8.40E-03	1.55E-02
7.24E-04	3.85E-03	2.33E-03	1.17E-04	8.28E-03	8.28E-03	2.36E-02	7.24E-04	3.85E-03	2.33E-03	1.17E-04	1.81E-04	8.28E-03	1.55E-02
7.46E-04	3.96E-03	2.32E-03	1.17E-04	8.17E-03	8.17E-03	2.35E-02	7.46E-04	3.96E-03	2.32E-03	1.17E-04	1.82E-04	8.17E-03	1.55E-02
5.31E-04	2.82E-03	2.35E-03	1.12E-04	9.42E-03	9.42E-03	2.47E-02	5.31E-04	2.82E-03	2.35E-03	1.12E-04	1.69E-04	9.42E-03	1.54E-02
5.42E-04	2.89E-03	2.35E-03	1.13E-04	9.29E-03	9.29E-03	2.45E-02	5.42E-04	2.89E-03	2.35E-03	1.13E-04	1.70E-04	9.29E-03	1.54E-02
5.52E-04	2.94E-03	2.35E-03	1.13E-04	9.14E-03	9.14E-03	2.42E-02	5.52E-04	2.94E-03	2.35E-03	1.13E-04	1.70E-04	9.14E-03	1.53E-02
5.63E-04	2.99E-03	2.35E-03	1.13E-04	8.99E-03	8.99E-03	2.40E-02	5.63E-04	2.99E-03	2.35E-03	1.13E-04	1.70E-04	8.99E-03	1.52E-02
5.75E-04	3.06E-03	2.35E-03	1.13E-04	8.86E-03	8.86E-03	2.38E-02	5.75E-04	3.06E-03	2.35E-03	1.13E-04	1.71E-04	8.86E-03	1.51E-02
5.87E-04	3.11E-03	2.35E-03	1.13E-04	8.72E-03	8.72E-03	2.36E-02	5.87E-04	3.11E-03	2.35E-03	1.13E-04	1.71E-04	8.72E-03	1.51E-02
6.00E-04	3.18E-03	2.34E-03	1.13E-04	8.59E-03	8.59E-03	2.34E-02	6.00E-04	3.18E-03	2.34E-03	1.13E-04	1.72E-04	8.59E-03	1.50E-02
6.13E-04	3.25E-03	2.34E-03	1.14E-04	8.47E-03	8.47E-03	2.33E-02	6.13E-04	3.25E-03	2.34E-03	1.14E-04	1.73E-04	8.47E-03	1.50E-02
6.28E-04	3.33E-03	2.33E-03	1.14E-04	8.35E-03	8.35E-03	2.31E-02	6.28E-04	3.33E-03	2.33E-03	1.14E-04	1.74E-04	8.35E-03	1.49E-02
6.43E-04	3.40E-03	2.33E-03	1.14E-04	8.23E-03	8.23E-03	2.29E-02	6.43E-04	3.40E-03	2.33E-03	1.14E-04	1.75E-04	8.23E-03	1.49E-02
6.58E-04	3.46E-03	2.31E-03	1.14E-04	8.10E-03	8.10E-03	2.27E-02	6.58E-04	3.46E-03	2.31E-03	1.14E-04	1.76E-04	8.10E-03	1.48E-02
6.75E-04	3.52E-03	2.30E-03	1.14E-04	7.97E-03	7.97E-03	2.26E-02	6.75E-04	3.52E-03	2.30E-03	1.14E-04	1.76E-04	7.97E-03	1.48E-02
6.93E-04	3.60E-03	2.29E-03	1.14E-04	7.86E-03	7.86E-03	2.24E-02	6.93E-04	3.60E-03	2.29E-03	1.14E-04	1.77E-04	7.86E-03	1.47E-02
7.13E-04	3.70E-03	2.28E-03	1.14E-04	7.77E-03	7.77E-03	2.23E-02	7.13E-04	3.70E-03	2.28E-03	1.14E-04	1.78E-04	7.77E-03	1.47E-02
5.13E-04	2.69E-03	2.29E-03	1.10E-04	8.75E-03	8.75E-03	2.31E-02	5.13E-04	2.69E-03	2.29E-03	1.10E-04	1.66E-04	8.75E-03	1.45E-02
5.22E-04	2.74E-03	2.30E-03	1.10E-04	8.64E-03	8.64E-03	2.29E-02	5.22E-04	2.74E-03	2.30E-03	1.10E-04	1.66E-04	8.64E-03	1.45E-02
5.32E-04	2.79E-03	2.30E-03	1.10E-04	8.52E-03	8.52E-03	2.28E-02	5.32E-04	2.79E-03	2.30E-03	1.10E-04	1.66E-04	8.52E-03	1.44E-02
5.42E-04	2.84E-03	2.30E-03	1.10E-04	8.41E-03	8.41E-03	2.26E-02	5.42E-04	2.84E-03	2.30E-03	1.10E-04	1.66E-04	8.41E-03	1.44E-02
5.53E-04	2.90E-03	2.30E-03	1.10E-04	8.30E-03	8.30E-03	2.24E-02	5.53E-04	2.90E-03	2.30E-03	1.10E-04	1.67E-04	8.30E-03	1.43E-02
5.64E-04	2.95E-03	2.30E-03	1.10E-04	8.18E-03	8.18E-03	2.23E-02	5.64E-04	2.95E-03	2.30E-03	1.10E-04	1.67E-04	8.18E-03	1.43E-02
5.76E-04	3.01E-03	2.29E-03	1.11E-04	8.08E-03	8.08E-03	2.21E-02	5.76E-04	3.01E-03	2.29E-03	1.11E-04	1.68E-04	8.08E-03	1.42E-02
5.88E-04	3.07E-03	2.29E-03	1.11E-04	7.98E-03	7.98E-03	2.20E-02	5.88E-04	3.07E-03	2.29E-03	1.11E-04	1.69E-04	7.98E-03	1.42E-02
6.02E-04	3.14E-03	2.29E-03	1.11E-04	7.87E-03	7.87E-03	2.19E-02	6.02E-04	3.14E-03	2.29E-03	1.11E-04	1.70E-04	7.87E-03	1.42E-02
6.16E-04	3.20E-03	2.28E-03	1.11E-04	7.77E-03	7.77E-03	2.17E-02	6.16E-04	3.20E-03	2.28E-03	1.11E-04	1.71E-04	7.77E-03	1.41E-02
6.30E-04	3.25E-03	2.27E-03	1.11E-04	7.66E-03	7.66E-03	2.16E-02	6.30E-04	3.25E-03	2.27E-03	1.11E-04	1.71E-04	7.66E-03	1.41E-02
6.45E-04	3.31E-03	2.26E-03	1.11E-04	7.56E-03	7.56E-03	2.14E-02	6.45E-04	3.31E-03	2.26E-03	1.11E-04	1.72E-04	7.56E-03	1.41E-02
6.62E-04	3.37E-03	2.25E-03	1.11E-04	7.46E-03	7.46E-03	2.13E-02	6.62E-04	3.37E-03	2.25E-03	1.11E-04	1.73E-04	7.46E-03	1.40E-02
6.80E-04	3.44E-03	2.24E-03	1.11E-04	7.37E-03	7.37E-03	2.12E-02	6.80E-04	3.44E-03	2.24E-03	1.11E-04	1.74E-04	7.37E-03	1.40E-02
4.95E-04	2.56E-03	2.24E-03	1.07E-04	8.11E-03	8.11E-03	2.16E-02	4.95E-04	2.56E-03	2.24E-03	1.07E-04	1.62E-04	8.11E-03	1.37E-02

5.04E-04	2.60E-03	2.24E-03	1.07E-04	8.01E-03	8.01E-03	2.15E-02	5.04E-04	2.60E-03	2.24E-03	1.07E-04	1.62E-04	8.01E-03	1.36E-02
5.13E-04	2.65E-03	2.24E-03	1.07E-04	7.94E-03	7.94E-03	2.14E-02	5.13E-04	2.65E-03	2.24E-03	1.07E-04	1.62E-04	7.94E-03	1.36E-02
5.23E-04	2.70E-03	2.24E-03	1.08E-04	7.85E-03	7.85E-03	2.13E-02	5.23E-04	2.70E-03	2.24E-03	1.08E-04	1.63E-04	7.85E-03	1.36E-02
5.33E-04	2.75E-03	2.25E-03	1.08E-04	7.77E-03	7.77E-03	2.12E-02	5.33E-04	2.75E-03	2.25E-03	1.08E-04	1.63E-04	7.77E-03	1.36E-02
5.43E-04	2.79E-03	2.24E-03	1.08E-04	7.67E-03	7.67E-03	2.10E-02	5.43E-04	2.79E-03	2.24E-03	1.08E-04	1.63E-04	7.67E-03	1.35E-02
5.54E-04	2.85E-03	2.25E-03	1.08E-04	7.59E-03	7.59E-03	2.09E-02	5.54E-04	2.85E-03	2.25E-03	1.08E-04	1.64E-04	7.59E-03	1.35E-02
5.66E-04	2.91E-03	2.24E-03	1.08E-04	7.51E-03	7.51E-03	2.08E-02	5.66E-04	2.91E-03	2.24E-03	1.08E-04	1.65E-04	7.51E-03	1.35E-02
5.78E-04	2.96E-03	2.24E-03	1.08E-04	7.42E-03	7.42E-03	2.07E-02	5.78E-04	2.96E-03	2.24E-03	1.08E-04	1.66E-04	7.42E-03	1.35E-02
5.91E-04	3.01E-03	2.24E-03	1.09E-04	7.34E-03	7.34E-03	2.06E-02	5.91E-04	3.01E-03	2.24E-03	1.09E-04	1.66E-04	7.34E-03	1.35E-02
6.04E-04	3.06E-03	2.23E-03	1.09E-04	7.25E-03	7.25E-03	2.05E-02	6.04E-04	3.06E-03	2.23E-03	1.09E-04	1.67E-04	7.25E-03	1.34E-02
6.18E-04	3.11E-03	2.22E-03	1.09E-04	7.16E-03	7.16E-03	2.04E-02	6.18E-04	3.11E-03	2.22E-03	1.09E-04	1.68E-04	7.16E-03	1.34E-02
6.34E-04	3.17E-03	2.21E-03	1.09E-04	7.07E-03	7.07E-03	2.03E-02	6.34E-04	3.17E-03	2.21E-03	1.09E-04	1.69E-04	7.07E-03	1.34E-02
6.50E-04	3.22E-03	2.20E-03	1.09E-04	6.99E-03	6.99E-03	2.02E-02	6.50E-04	3.22E-03	2.20E-03	1.09E-04	1.69E-04	6.99E-03	1.33E-02
6.67E-04	3.28E-03	2.19E-03	1.09E-04	6.91E-03	6.91E-03	2.01E-02	6.67E-04	3.28E-03	2.19E-03	1.09E-04	1.70E-04	6.91E-03	1.33E-02
6.87E-04	3.35E-03	2.18E-03	1.09E-04	6.84E-03	6.84E-03	2.00E-02	6.87E-04	3.35E-03	2.18E-03	1.09E-04	1.71E-04	6.84E-03	1.33E-02
4.80E-04	2.45E-03	2.18E-03	1.05E-04	7.53E-03	7.53E-03	2.03E-02	4.80E-04	2.45E-03	2.18E-03	1.05E-04	1.59E-04	7.53E-03	1.29E-02
4.88E-04	2.49E-03	2.19E-03	1.05E-04	7.47E-03	7.47E-03	2.02E-02	4.88E-04	2.49E-03	2.19E-03	1.05E-04	1.59E-04	7.47E-03	1.29E-02
4.97E-04	2.53E-03	2.19E-03	1.05E-04	7.41E-03	7.41E-03	2.01E-02	4.97E-04	2.53E-03	2.19E-03	1.05E-04	1.59E-04	7.41E-03	1.29E-02
5.05E-04	2.57E-03	2.19E-03	1.05E-04	7.34E-03	7.34E-03	2.00E-02	5.05E-04	2.57E-03	2.19E-03	1.05E-04	1.59E-04	7.34E-03	1.29E-02
5.14E-04	2.61E-03	2.19E-03	1.05E-04	7.27E-03	7.27E-03	2.00E-02	5.14E-04	2.61E-03	2.19E-03	1.05E-04	1.59E-04	7.27E-03	1.28E-02
5.24E-04	2.65E-03	2.19E-03	1.05E-04	7.20E-03	7.20E-03	1.99E-02	5.24E-04	2.65E-03	2.19E-03	1.05E-04	1.60E-04	7.20E-03	1.28E-02
5.34E-04	2.70E-03	2.20E-03	1.05E-04	7.13E-03	7.13E-03	1.98E-02	5.34E-04	2.70E-03	2.20E-03	1.05E-04	1.60E-04	7.13E-03	1.28E-02
5.45E-04	2.76E-03	2.20E-03	1.06E-04	7.07E-03	7.07E-03	1.97E-02	5.45E-04	2.76E-03	2.20E-03	1.06E-04	1.61E-04	7.07E-03	1.28E-02
5.56E-04	2.80E-03	2.19E-03	1.06E-04	7.00E-03	7.00E-03	1.97E-02	5.56E-04	2.80E-03	2.19E-03	1.06E-04	1.62E-04	7.00E-03	1.28E-02
5.68E-04	2.84E-03	2.19E-03	1.06E-04	6.92E-03	6.92E-03	1.95E-02	5.68E-04	2.84E-03	2.19E-03	1.06E-04	1.62E-04	6.92E-03	1.28E-02
5.80E-04	2.89E-03	2.18E-03	1.06E-04	6.85E-03	6.85E-03	1.94E-02	5.80E-04	2.89E-03	2.18E-03	1.06E-04	1.63E-04	6.85E-03	1.28E-02
5.93E-04	2.93E-03	2.18E-03	1.06E-04	6.78E-03	6.78E-03	1.94E-02	5.93E-04	2.93E-03	2.18E-03	1.06E-04	1.64E-04	6.78E-03	1.28E-02
6.07E-04	2.98E-03	2.17E-03	1.06E-04	6.70E-03	6.70E-03	1.93E-02	6.07E-04	2.98E-03	2.17E-03	1.06E-04	1.65E-04	6.70E-03	1.27E-02
6.21E-04	3.02E-03	2.16E-03	1.06E-04	6.63E-03	6.63E-03	1.92E-02	6.21E-04	3.02E-03	2.16E-03	1.06E-04	1.65E-04	6.63E-03	1.27E-02
6.38E-04	3.07E-03	2.15E-03	1.06E-04	6.56E-03	6.56E-03	1.91E-02	6.38E-04	3.07E-03	2.15E-03	1.06E-04	1.66E-04	6.56E-03	1.27E-02
6.55E-04	3.12E-03	2.14E-03	1.06E-04	6.50E-03	6.50E-03	1.90E-02	6.55E-04	3.12E-03	2.14E-03	1.06E-04	1.67E-04	6.50E-03	1.27E-02
4.65E-04	2.34E-03	2.13E-03	1.02E-04	7.00E-03	7.00E-03	1.90E-02	4.65E-04	2.34E-03	2.13E-03	1.02E-04	1.56E-04	7.00E-03	1.22E-02
4.73E-04	2.38E-03	2.14E-03	1.02E-04	6.96E-03	6.96E-03	1.90E-02	4.73E-04	2.38E-03	2.14E-03	1.02E-04	1.56E-04	6.96E-03	1.22E-02
4.81E-04	2.41E-03	2.14E-03	1.03E-04	6.91E-03	6.91E-03	1.90E-02	4.81E-04	2.41E-03	2.14E-03	1.03E-04	1.56E-04	6.91E-03	1.22E-02
4.89E-04	2.45E-03	2.14E-03	1.03E-04	6.86E-03	6.86E-03	1.89E-02	4.89E-04	2.45E-03	2.14E-03	1.03E-04	1.56E-04	6.86E-03	1.22E-02
4.98E-04	2.48E-03	2.14E-03	1.03E-04	6.81E-03	6.81E-03	1.88E-02	4.98E-04	2.48E-03	2.14E-03	1.03E-04	1.56E-04	6.81E-03	1.22E-02
5.06E-04	2.52E-03	2.15E-03	1.03E-04	6.75E-03	6.75E-03	1.88E-02	5.06E-04	2.52E-03	2.15E-03	1.03E-04	1.56E-04	6.75E-03	1.22E-02
5.17E-04	2.57E-03	2.15E-03	1.03E-04	6.70E-03	6.70E-03	1.87E-02	5.17E-04	2.57E-03	2.15E-03	1.03E-04	1.57E-04	6.70E-03	1.22E-02
5.26E-04	2.61E-03	2.15E-03	1.03E-04	6.66E-03	6.66E-03	1.87E-02	5.26E-04	2.61E-03	2.15E-03	1.03E-04	1.57E-04	6.66E-03	1.22E-02
5.36E-04	2.65E-03	2.15E-03	1.03E-04	6.60E-03	6.60E-03	1.86E-02	5.36E-04	2.65E-03	2.15E-03	1.03E-04	1.58E-04	6.60E-03	1.22E-02
5.47E-04	2.69E-03	2.15E-03	1.04E-04	6.54E-03	6.54E-03	1.86E-02	5.47E-04	2.69E-03	2.15E-03	1.04E-04	1.59E-04	6.54E-03	1.22E-02
5.59E-04	2.73E-03	2.14E-03	1.04E-04	6.47E-03	6.47E-03	1.85E-02	5.59E-04	2.73E-03	2.14E-03	1.04E-04	1.59E-04	6.47E-03	1.22E-02
5.70E-04	2.76E-03	2.14E-03	1.04E-04	6.41E-03	6.41E-03	1.84E-02	5.70E-04	2.76E-03	2.14E-03	1.04E-04	1.60E-04	6.41E-03	1.21E-02
5.83E-04	2.80E-03	2.13E-03	1.04E-04	6.35E-03	6.35E-03	1.83E-02	5.83E-04	2.80E-03	2.13E-03	1.04E-04	1.61E-04	6.35E-03	1.21E-02
5.96E-04	2.83E-03	2.12E-03	1.04E-04	6.29E-03	6.29E-03	1.82E-02	5.96E-04	2.83E-03	2.12E-03	1.04E-04	1.61E-04	6.29E-03	1.21E-02
6.11E-04	2.87E-03	2.11E-03	1.04E-04	6.23E-03	6.23E-03	1.82E-02	6.11E-04	2.87E-03	2.11E-03	1.04E-04	1.62E-04	6.23E-03	1.21E-02
6.26E-04	2.92E-03	2.10E-03	1.04E-04	6.18E-03	6.18E-03	1.81E-02	6.26E-04	2.92E-03	2.10E-03	1.04E-04	1.63E-04	6.18E-03	1.21E-02
4.52E-04	2.24E-03	2.08E-03	1.00E-04	6.52E-03	6.52E-03	1.79E-02	4.52E-04	2.24E-03	2.08E-03	1.00E-04	1.53E-04	6.52E-03	1.15E-02
4.59E-04	2.27E-03	2.09E-03	1.00E-04	6.50E-03	6.50E-03	1.79E-02	4.59E-04	2.27E-03	2.09E-03	1.00E-04	1.53E-04	6.50E-03	1.16E-02
4.68E-04	2.31E-03	2.09E-03	1.01E-04	6.47E-03	6.47E-03	1.79E-02	4.68E-04	2.31E-03	2.09E-03	1.01E-04	1.53E-04	6.47E-03	1.16E-02
4.75E-04	2.34E-03	2.10E-03	1.01E-04	6.43E-03	6.43E-03	1.79E-02	4.75E-04	2.34E-03	2.10E-03	1.01E-04	1.53E-04	6.43E-03	1.16E-02
4.83E-04	2.37E-03	2.10E-03	1.01E-04	6.39E-03	6.39E-03	1.78E-02	4.83E-04	2.37E-03	2.10E-03	1.01E-04	1.53E-04	6.39E-03	1.16E-02
4.91E-04	2.40E-03	2.10E-03	1.01E-04	6.34E-03	6.34E-03	1.78E-02	4.91E-04	2.40E-03	2.10E-03	1.01E-04	1.53E-04	6.34E-03	1.16E-02
5.00E-04	2.44E-03	2.10E-03	1.01E-04	6.31E-03	6.31E-03	1.78E-02	5.00E-04	2.44E-03	2.10E-03	1.01E-04	1.54E-04	6.31E-03	1.16E-02

5.09E-04	2.48E-03	2.10E-03	1.01E-04	6.27E-03	6.27E-03	1.77E-02	5.09E-04	2.48E-03	2.10E-03	1.01E-04	1.54E-04	6.27E-03	1.16E-02
5.19E-04	2.51E-03	2.10E-03	1.01E-04	6.22E-03	6.22E-03	1.77E-02	5.19E-04	2.51E-03	2.10E-03	1.01E-04	1.54E-04	6.22E-03	1.16E-02
5.29E-04	2.55E-03	2.10E-03	1.01E-04	6.18E-03	6.18E-03	1.76E-02	5.29E-04	2.55E-03	2.10E-03	1.01E-04	1.55E-04	6.18E-03	1.16E-02
5.39E-04	2.58E-03	2.10E-03	1.01E-04	6.13E-03	6.13E-03	1.76E-02	5.39E-04	2.58E-03	2.10E-03	1.01E-04	1.56E-04	6.13E-03	1.16E-02
5.50E-04	2.60E-03	2.09E-03	1.01E-04	6.07E-03	6.07E-03	1.75E-02	5.50E-04	2.60E-03	2.09E-03	1.01E-04	1.56E-04	6.07E-03	1.16E-02
5.61E-04	2.63E-03	2.09E-03	1.01E-04	6.01E-03	6.01E-03	1.74E-02	5.61E-04	2.63E-03	2.09E-03	1.01E-04	1.57E-04	6.01E-03	1.16E-02
5.73E-04	2.66E-03	2.08E-03	1.01E-04	5.96E-03	5.96E-03	1.73E-02	5.73E-04	2.66E-03	2.08E-03	1.01E-04	1.58E-04	5.96E-03	1.15E-02
5.86E-04	2.70E-03	2.08E-03	1.02E-04	5.91E-03	5.91E-03	1.73E-02	5.86E-04	2.70E-03	2.08E-03	1.02E-04	1.58E-04	5.91E-03	1.15E-02
6.00E-04	2.73E-03	2.07E-03	1.02E-04	5.87E-03	5.87E-03	1.72E-02	6.00E-04	2.73E-03	2.07E-03	1.02E-04	1.59E-04	5.87E-03	1.15E-02
4.40E-04	2.14E-03	2.03E-03	9.78E-05	6.09E-03	6.09E-03	1.69E-02	4.40E-04	2.14E-03	2.03E-03	9.78E-05	1.50E-04	6.09E-03	1.09E-02
4.47E-04	2.17E-03	2.04E-03	9.81E-05	6.07E-03	6.07E-03	1.69E-02	4.47E-04	2.17E-03	2.04E-03	9.81E-05	1.50E-04	6.07E-03	1.10E-02
4.54E-04	2.21E-03	2.04E-03	9.83E-05	6.05E-03	6.05E-03	1.69E-02	4.54E-04	2.21E-03	2.04E-03	9.83E-05	1.50E-04	6.05E-03	1.10E-02
4.61E-04	2.24E-03	2.05E-03	9.84E-05	6.03E-03	6.03E-03	1.69E-02	4.61E-04	2.24E-03	2.05E-03	9.84E-05	1.51E-04	6.03E-03	1.10E-02
4.68E-04	2.27E-03	2.05E-03	9.85E-05	6.00E-03	6.00E-03	1.69E-02	4.68E-04	2.27E-03	2.05E-03	9.85E-05	1.51E-04	6.00E-03	1.10E-02
4.77E-04	2.29E-03	2.05E-03	9.85E-05	5.97E-03	5.97E-03	1.69E-02	4.77E-04	2.29E-03	2.05E-03	9.85E-05	1.51E-04	5.97E-03	1.10E-02
4.85E-04	2.32E-03	2.06E-03	9.86E-05	5.94E-03	5.94E-03	1.68E-02	4.85E-04	2.32E-03	2.06E-03	9.86E-05	1.51E-04	5.94E-03	1.11E-02
4.93E-04	2.35E-03	2.06E-03	9.87E-05	5.90E-03	5.90E-03	1.68E-02	4.93E-04	2.35E-03	2.06E-03	9.87E-05	1.51E-04	5.90E-03	1.11E-02
5.02E-04	2.38E-03	2.06E-03	9.89E-05	5.87E-03	5.87E-03	1.68E-02	5.02E-04	2.38E-03	2.06E-03	9.89E-05	1.51E-04	5.87E-03	1.11E-02
5.11E-04	2.41E-03	2.06E-03	9.90E-05	5.84E-03	5.84E-03	1.68E-02	5.11E-04	2.41E-03	2.06E-03	9.90E-05	1.52E-04	5.84E-03	1.11E-02
5.21E-04	2.44E-03	2.06E-03	9.90E-05	5.79E-03	5.79E-03	1.67E-02	5.21E-04	2.44E-03	2.06E-03	9.90E-05	1.52E-04	5.79E-03	1.11E-02
5.31E-04	2.46E-03	2.05E-03	9.90E-05	5.75E-03	5.75E-03	1.66E-02	5.31E-04	2.46E-03	2.05E-03	9.90E-05	1.53E-04	5.75E-03	1.10E-02
5.41E-04	2.49E-03	2.05E-03	9.91E-05	5.70E-03	5.70E-03	1.66E-02	5.41E-04	2.49E-03	2.05E-03	9.91E-05	1.53E-04	5.70E-03	1.10E-02
5.53E-04	2.51E-03	2.05E-03	9.93E-05	5.66E-03	5.66E-03	1.65E-02	5.53E-04	2.51E-03	2.05E-03	9.93E-05	1.54E-04	5.66E-03	1.10E-02
5.64E-04	2.54E-03	2.04E-03	9.94E-05	5.62E-03	5.62E-03	1.65E-02	5.64E-04	2.54E-03	2.04E-03	9.94E-05	1.55E-04	5.62E-03	1.10E-02
5.77E-04	2.57E-03	2.03E-03	9.95E-05	5.58E-03	5.58E-03	1.64E-02	5.77E-04	2.57E-03	2.03E-03	9.95E-05	1.55E-04	5.58E-03	1.10E-02
4.28E-04	2.05E-03	1.98E-03	9.57E-05	5.70E-03	5.70E-03	1.60E-02	4.28E-04	2.05E-03	1.98E-03	9.57E-05	1.47E-04	5.70E-03	1.04E-02
4.34E-04	2.07E-03	1.99E-03	9.58E-05	5.68E-03	5.68E-03	1.59E-02	4.34E-04	2.07E-03	1.99E-03	9.58E-05	1.47E-04	5.68E-03	1.04E-02
4.40E-04	2.10E-03	1.99E-03	9.59E-05	5.66E-03	5.66E-03	1.60E-02	4.40E-04	2.10E-03	1.99E-03	9.59E-05	1.47E-04	5.66E-03	1.04E-02
4.48E-04	2.13E-03	2.00E-03	9.61E-05	5.65E-03	5.65E-03	1.60E-02	4.48E-04	2.13E-03	2.00E-03	9.61E-05	1.48E-04	5.65E-03	1.05E-02
4.55E-04	2.16E-03	2.01E-03	9.64E-05	5.64E-03	5.64E-03	1.60E-02	4.55E-04	2.16E-03	2.01E-03	9.64E-05	1.48E-04	5.64E-03	1.05E-02
4.62E-04	2.17E-03	2.01E-03	9.62E-05	5.60E-03	5.60E-03	1.59E-02	4.62E-04	2.17E-03	2.01E-03	9.62E-05	1.48E-04	5.60E-03	1.05E-02
4.70E-04	2.20E-03	2.01E-03	9.64E-05	5.58E-03	5.58E-03	1.59E-02	4.70E-04	2.20E-03	2.01E-03	9.64E-05	1.48E-04	5.58E-03	1.05E-02
4.78E-04	2.23E-03	2.01E-03	9.66E-05	5.57E-03	5.57E-03	1.60E-02	4.78E-04	2.23E-03	2.01E-03	9.66E-05	1.48E-04	5.57E-03	1.05E-02
4.86E-04	2.26E-03	2.02E-03	9.67E-05	5.54E-03	5.54E-03	1.59E-02	4.86E-04	2.26E-03	2.02E-03	9.67E-05	1.48E-04	5.54E-03	1.05E-02
4.95E-04	2.29E-03	2.02E-03	9.70E-05	5.52E-03	5.52E-03	1.60E-02	4.95E-04	2.29E-03	2.02E-03	9.70E-05	1.49E-04	5.52E-03	1.06E-02
5.04E-04	2.31E-03	2.02E-03	9.70E-05	5.49E-03	5.49E-03	1.59E-02	5.04E-04	2.31E-03	2.02E-03	9.70E-05	1.49E-04	5.49E-03	1.06E-02
5.13E-04	2.33E-03	2.01E-03	9.69E-05	5.44E-03	5.44E-03	1.58E-02	5.13E-04	2.33E-03	2.01E-03	9.69E-05	1.49E-04	5.44E-03	1.05E-02
5.23E-04	2.35E-03	2.01E-03	9.69E-05	5.41E-03	5.41E-03	1.58E-02	5.23E-04	2.35E-03	2.01E-03	9.69E-05	1.50E-04	5.41E-03	1.05E-02
5.34E-04	2.38E-03	2.01E-03	9.71E-05	5.38E-03	5.38E-03	1.58E-02	5.34E-04	2.38E-03	2.01E-03	9.71E-05	1.50E-04	5.38E-03	1.06E-02
5.45E-04	2.41E-03	2.01E-03	9.73E-05	5.35E-03	5.35E-03	1.58E-02	5.45E-04	2.41E-03	2.01E-03	9.73E-05	1.51E-04	5.35E-03	1.06E-02
5.56E-04	2.43E-03	2.00E-03	9.74E-05	5.31E-03	5.31E-03	1.57E-02	5.56E-04	2.43E-03	2.00E-03	9.74E-05	1.52E-04	5.31E-03	1.06E-02
4.16E-04	1.96E-03	1.94E-03	9.37E-05	5.35E-03	5.35E-03	1.51E-02	4.16E-04	1.96E-03	1.94E-03	9.37E-05	1.45E-04	5.35E-03	9.90E-03
4.22E-04	1.98E-03	1.94E-03	9.37E-05	5.33E-03	5.33E-03	1.51E-02	4.22E-04	1.98E-03	1.94E-03	9.37E-05	1.45E-04	5.33E-03	9.91E-03
4.29E-04	2.01E-03	1.95E-03	9.39E-05	5.32E-03	5.32E-03	1.51E-02	4.29E-04	2.01E-03	1.95E-03	9.39E-05	1.45E-04	5.32E-03	9.94E-03
4.35E-04	2.02E-03	1.95E-03	9.40E-05	5.30E-03	5.30E-03	1.51E-02	4.35E-04	2.02E-03	1.95E-03	9.40E-05	1.45E-04	5.30E-03	9.95E-03
4.56E-04	2.09E-03	1.96E-03	9.42E-05	5.26E-03	5.26E-03	1.51E-02	4.56E-04	2.09E-03	1.96E-03	9.42E-05	1.45E-04	5.26E-03	1.00E-02
4.64E-04	2.11E-03	1.96E-03	9.43E-05	5.24E-03	5.24E-03	1.51E-02	4.64E-04	2.11E-03	1.96E-03	9.43E-05	1.45E-04	5.24E-03	1.00E-02
4.71E-04	2.13E-03	1.97E-03	9.44E-05	5.22E-03	5.22E-03	1.51E-02	4.71E-04	2.13E-03	1.97E-03	9.44E-05	1.45E-04	5.22E-03	1.00E-02
4.80E-04	2.17E-03	1.98E-03	9.48E-05	5.22E-03	5.22E-03	1.52E-02	4.80E-04	2.17E-03	1.98E-03	9.48E-05	1.46E-04	5.22E-03	1.01E-02
4.89E-04	2.20E-03	1.98E-03	9.51E-05	5.21E-03	5.21E-03	1.52E-02	4.89E-04	2.20E-03	1.98E-03	9.51E-05	1.46E-04	5.21E-03	1.01E-02
4.97E-04	2.21E-03	1.97E-03	9.48E-05	5.16E-03	5.16E-03	1.51E-02	4.97E-04	2.21E-03	1.97E-03	9.48E-05	1.46E-04	5.16E-03	1.01E-02
5.06E-04	2.23E-03	1.97E-03	9.49E-05	5.13E-03	5.13E-03	1.51E-02	5.06E-04	2.23E-03	1.97E-03	9.49E-05	1.46E-04	5.13E-03	1.01E-02
5.16E-04	2.26E-03	1.97E-03	9.51E-05	5.11E-03	5.11E-03	1.51E-02	5.16E-04	2.26E-03	1.97E-03	9.51E-05	1.47E-04	5.11E-03	1.01E-02
5.26E-04	2.29E-03	1.97E-03	9.53E-05	5.09E-03	5.09E-03	1.51E-02	5.26E-04	2.29E-03	1.97E-03	9.53E-05	1.48E-04	5.09E-03	1.01E-02

5.37E-04	2.31E-03	1.97E-03	9.54E-05	5.06E-03	5.06E-03	1.50E-02	5.37E-04	2.31E-03	1.97E-03	9.54E-05	1.49E-04	5.06E-03	1.01E-02
4.06E-04	1.88E-03	1.90E-03	9.18E-05	5.04E-03	5.04E-03	1.44E-02	4.06E-04	1.88E-03	1.90E-03	9.18E-05	1.42E-04	5.04E-03	9.46E-03
4.12E-04	1.91E-03	1.90E-03	9.21E-05	5.04E-03	5.04E-03	1.44E-02	4.12E-04	1.91E-03	1.90E-03	9.21E-05	1.42E-04	5.04E-03	9.50E-03
4.17E-04	1.92E-03	1.90E-03	9.20E-05	5.02E-03	5.02E-03	1.44E-02	4.17E-04	1.92E-03	1.90E-03	9.20E-05	1.42E-04	5.02E-03	9.50E-03
4.23E-04	1.94E-03	1.91E-03	9.21E-05	5.00E-03	5.00E-03	1.44E-02	4.23E-04	1.94E-03	1.91E-03	9.21E-05	1.42E-04	5.00E-03	9.51E-03
4.43E-04	1.99E-03	1.92E-03	9.23E-05	4.97E-03	4.97E-03	1.44E-02	4.43E-04	1.99E-03	1.92E-03	9.23E-05	1.42E-04	4.97E-03	9.56E-03
4.50E-04	2.02E-03	1.92E-03	9.24E-05	4.96E-03	4.96E-03	1.44E-02	4.50E-04	2.02E-03	1.92E-03	9.24E-05	1.42E-04	4.96E-03	9.58E-03
4.57E-04	2.03E-03	1.93E-03	9.24E-05	4.94E-03	4.94E-03	1.44E-02	4.57E-04	2.03E-03	1.93E-03	9.24E-05	1.42E-04	4.94E-03	9.59E-03
4.65E-04	2.06E-03	1.93E-03	9.26E-05	4.93E-03	4.93E-03	1.44E-02	4.65E-04	2.06E-03	1.93E-03	9.26E-05	1.42E-04	4.93E-03	9.61E-03
4.74E-04	2.08E-03	1.93E-03	9.27E-05	4.92E-03	4.92E-03	1.44E-02	4.74E-04	2.08E-03	1.93E-03	9.27E-05	1.43E-04	4.92E-03	9.64E-03
4.81E-04	2.09E-03	1.93E-03	9.27E-05	4.89E-03	4.89E-03	1.44E-02	4.81E-04	2.09E-03	1.93E-03	9.27E-05	1.43E-04	4.89E-03	9.63E-03
4.90E-04	2.11E-03	1.93E-03	9.28E-05	4.87E-03	4.87E-03	1.44E-02	4.90E-04	2.11E-03	1.93E-03	9.28E-05	1.43E-04	4.87E-03	9.64E-03
5.00E-04	2.15E-03	1.93E-03	9.31E-05	4.86E-03	4.86E-03	1.44E-02	5.00E-04	2.15E-03	1.93E-03	9.31E-05	1.44E-04	4.86E-03	9.68E-03
5.08E-04	2.17E-03	1.93E-03	9.32E-05	4.84E-03	4.84E-03	1.44E-02	5.08E-04	2.17E-03	1.93E-03	9.32E-05	1.45E-04	4.84E-03	9.69E-03
5.18E-04	2.19E-03	1.93E-03	9.32E-05	4.81E-03	4.81E-03	1.44E-02	5.18E-04	2.19E-03	1.93E-03	9.32E-05	1.45E-04	4.81E-03	9.69E-03
4.40E-03	2.29E-02	4.20E-03	2.10E-04	1.77E-02	1.77E-02	6.71E-02	4.40E-03	2.29E-02	4.20E-03	2.10E-04	2.87E-04	1.77E-02	4.97E-02
5.34E-03	2.61E-02	4.22E-03	2.09E-04	1.73E-02	1.73E-02	7.06E-02	5.34E-03	2.61E-02	4.22E-03	2.09E-04	2.84E-04	1.73E-02	5.35E-02
6.69E-03	3.03E-02	4.23E-03	2.09E-04	1.70E-02	1.70E-02	7.54E-02	6.69E-03	3.03E-02	4.23E-03	2.09E-04	2.82E-04	1.70E-02	5.87E-02
8.73E-03	3.56E-02	4.24E-03	2.08E-04	1.67E-02	1.67E-02	8.21E-02	8.73E-03	3.56E-02	4.24E-03	2.08E-04	2.79E-04	1.67E-02	6.57E-02
3.09E-03	1.80E-02	4.04E-03	2.04E-04	1.76E-02	1.76E-02	6.07E-02	3.09E-03	1.80E-02	4.04E-03	2.04E-04	2.82E-04	1.76E-02	4.33E-02
3.52E-03	1.99E-02	4.04E-03	2.02E-04	1.73E-02	1.73E-02	6.22E-02	3.52E-03	1.99E-02	4.04E-03	2.02E-04	2.80E-04	1.73E-02	4.52E-02
4.08E-03	2.20E-02	4.05E-03	2.01E-04	1.70E-02	1.70E-02	6.43E-02	4.08E-03	2.20E-02	4.05E-03	2.01E-04	2.77E-04	1.70E-02	4.76E-02
4.83E-03	2.47E-02	4.05E-03	2.00E-04	1.66E-02	1.66E-02	6.70E-02	4.83E-03	2.47E-02	4.05E-03	2.00E-04	2.75E-04	1.66E-02	5.07E-02
2.38E-03	1.49E-02	3.89E-03	1.98E-04	1.76E-02	1.76E-02	5.66E-02	2.38E-03	1.49E-02	3.89E-03	1.98E-04	2.78E-04	1.76E-02	3.92E-02
2.63E-03	1.60E-02	3.89E-03	1.96E-04	1.73E-02	1.73E-02	5.73E-02	2.63E-03	1.60E-02	3.89E-03	1.96E-04	2.75E-04	1.73E-02	4.03E-02
2.93E-03	1.74E-02	3.89E-03	1.95E-04	1.69E-02	1.69E-02	5.83E-02	2.93E-03	1.74E-02	3.89E-03	1.95E-04	2.73E-04	1.69E-02	4.16E-02
3.30E-03	1.90E-02	3.89E-03	1.94E-04	1.66E-02	1.66E-02	5.95E-02	3.30E-03	1.90E-02	3.89E-03	1.94E-04	2.70E-04	1.66E-02	4.32E-02
1.95E-03	1.26E-02	3.76E-03	1.92E-04	1.76E-02	1.76E-02	5.38E-02	1.95E-03	1.26E-02	3.76E-03	1.92E-04	2.73E-04	1.76E-02	3.64E-02
2.11E-03	1.35E-02	3.75E-03	1.91E-04	1.73E-02	1.73E-02	5.40E-02	2.11E-03	1.35E-02	3.75E-03	1.91E-04	2.71E-04	1.73E-02	3.71E-02
2.29E-03	1.44E-02	3.75E-03	1.89E-04	1.69E-02	1.69E-02	5.45E-02	2.29E-03	1.44E-02	3.75E-03	1.89E-04	2.69E-04	1.69E-02	3.78E-02
2.51E-03	1.55E-02	3.75E-03	1.88E-04	1.65E-02	1.65E-02	5.51E-02	2.51E-03	1.55E-02	3.75E-03	1.88E-04	2.66E-04	1.65E-02	3.88E-02
1.66E-03	1.09E-02	3.64E-03	1.87E-04	1.76E-02	1.76E-02	5.17E-02	1.66E-03	1.09E-02	3.64E-03	1.87E-04	2.67E-04	1.76E-02	3.43E-02
1.77E-03	1.16E-02	3.63E-03	1.85E-04	1.73E-02	1.73E-02	5.17E-02	1.77E-03	1.16E-02	3.63E-03	1.85E-04	2.66E-04	1.73E-02	3.47E-02
1.89E-03	1.23E-02	3.62E-03	1.84E-04	1.69E-02	1.69E-02	5.18E-02	1.89E-03	1.23E-02	3.62E-03	1.84E-04	2.64E-04	1.69E-02	3.52E-02
2.03E-03	1.31E-02	3.62E-03	1.83E-04	1.65E-02	1.65E-02	5.19E-02	2.03E-03	1.31E-02	3.62E-03	1.83E-04	2.62E-04	1.65E-02	3.57E-02
3.48E-03	1.97E-02	3.90E-03	1.94E-04	1.65E-02	1.65E-02	6.02E-02	3.48E-03	1.97E-02	3.90E-03	1.94E-04	2.70E-04	1.65E-02	4.40E-02
4.00E-03	2.17E-02	3.90E-03	1.93E-04	1.61E-02	1.61E-02	6.20E-02	4.00E-03	2.17E-02	3.90E-03	1.93E-04	2.67E-04	1.61E-02	4.62E-02
4.69E-03	2.40E-02	3.91E-03	1.92E-04	1.58E-02	1.58E-02	6.44E-02	4.69E-03	2.40E-02	3.91E-03	1.92E-04	2.65E-04	1.58E-02	4.88E-02
5.70E-03	2.73E-02	3.93E-03	1.91E-04	1.55E-02	1.55E-02	6.80E-02	5.70E-03	2.73E-02	3.93E-03	1.91E-04	2.63E-04	1.55E-02	5.28E-02
7.25E-03	3.20E-02	3.95E-03	1.92E-04	1.51E-02	1.51E-02	7.37E-02	7.25E-03	3.20E-02	3.95E-03	1.92E-04	2.61E-04	1.51E-02	5.88E-02
2.61E-03	1.60E-02	3.75E-03	1.88E-04	1.64E-02	1.64E-02	5.54E-02	2.61E-03	1.60E-02	3.75E-03	1.88E-04	2.66E-04	1.64E-02	3.92E-02
2.89E-03	1.72E-02	3.75E-03	1.87E-04	1.61E-02	1.61E-02	5.62E-02	2.89E-03	1.72E-02	3.75E-03	1.87E-04	2.63E-04	1.61E-02	4.04E-02
3.24E-03	1.86E-02	3.76E-03	1.86E-04	1.57E-02	1.57E-02	5.73E-02	3.24E-03	1.86E-02	3.76E-03	1.86E-04	2.61E-04	1.57E-02	4.18E-02
3.69E-03	2.04E-02	3.77E-03	1.85E-04	1.54E-02	1.54E-02	5.89E-02	3.69E-03	2.04E-02	3.77E-03	1.85E-04	2.59E-04	1.54E-02	4.37E-02
4.29E-03	2.26E-02	3.78E-03	1.85E-04	1.51E-02	1.51E-02	6.11E-02	4.29E-03	2.26E-02	3.78E-03	1.85E-04	2.57E-04	1.51E-02	4.62E-02
2.10E-03	1.34E-02	3.62E-03	1.83E-04	1.64E-02	1.64E-02	5.21E-02	2.10E-03	1.34E-02	3.62E-03	1.83E-04	2.62E-04	1.64E-02	3.60E-02
2.27E-03	1.43E-02	3.61E-03	1.81E-04	1.60E-02	1.60E-02	5.24E-02	2.27E-03	1.43E-02	3.61E-03	1.81E-04	2.59E-04	1.60E-02	3.66E-02
2.48E-03	1.52E-02	3.61E-03	1.80E-04	1.57E-02	1.57E-02	5.29E-02	2.48E-03	1.52E-02	3.61E-03	1.80E-04	2.57E-04	1.57E-02	3.75E-02
2.73E-03	1.64E-02	3.62E-03	1.79E-04	1.54E-02	1.54E-02	5.36E-02	2.73E-03	1.64E-02	3.62E-03	1.79E-04	2.55E-04	1.54E-02	3.85E-02
3.04E-03	1.77E-02	3.63E-03	1.79E-04	1.50E-02	1.50E-02	5.46E-02	3.04E-03	1.77E-02	3.63E-03	1.79E-04	2.53E-04	1.50E-02	3.98E-02
4.34E-03	2.27E-02	3.76E-03	1.83E-04	1.50E-02	1.50E-02	6.09E-02	4.34E-03	2.27E-02	3.76E-03	1.83E-04	2.55E-04	1.50E-02	4.62E-02
5.20E-03	2.58E-02	3.78E-03	1.83E-04	1.46E-02	1.46E-02	6.43E-02	5.20E-03	2.58E-02	3.78E-03	1.83E-04	2.54E-04	1.46E-02	4.99E-02
6.54E-03	3.03E-02	3.81E-03	1.84E-04	1.43E-02	1.43E-02	6.95E-02	6.54E-03	3.03E-02	3.81E-03	1.84E-04	2.53E-04	1.43E-02	5.54E-02
8.64E-03	3.65E-02	3.83E-03	1.84E-04	1.40E-02	1.40E-02	7.71E-02	8.64E-03	3.65E-02	3.83E-03	1.84E-04	2.52E-04	1.40E-02	6.34E-02

3.07E-03	1.77E-02	3.61E-03	1.77E-04	1.49E-02	1.49E-02	5.44E-02	3.07E-03	1.77E-02	3.61E-03	1.77E-04	2.51E-04	1.49E-02	3.97E-02
3.47E-03	1.94E-02	3.62E-03	1.77E-04	1.46E-02	1.46E-02	5.59E-02	3.47E-03	1.94E-02	3.62E-03	1.77E-04	2.49E-04	1.46E-02	4.15E-02
4.02E-03	2.18E-02	3.64E-03	1.77E-04	1.43E-02	1.43E-02	5.82E-02	4.02E-03	2.18E-02	3.64E-03	1.77E-04	2.48E-04	1.43E-02	4.41E-02
4.79E-03	2.49E-02	3.67E-03	1.77E-04	1.40E-02	1.40E-02	6.14E-02	4.79E-03	2.49E-02	3.67E-03	1.77E-04	2.47E-04	1.40E-02	4.77E-02
5.80E-03	3.74E-02	1.57E-03	1.04E-04	6.37E-04	6.37E-04	4.62E-02	5.80E-03	3.74E-02	1.57E-03	1.04E-04	1.56E-04	6.37E-04	4.57E-02
1.08E-02	6.09E-02	1.68E-03	1.05E-04	6.58E-04	6.58E-04	7.48E-02	1.08E-02	6.09E-02	1.68E-03	1.05E-04	1.57E-04	6.58E-04	7.43E-02
8.39E-03	5.00E-02	1.66E-03	1.06E-04	6.57E-04	6.57E-04	6.15E-02	8.39E-03	5.00E-02	1.66E-03	1.06E-04	1.58E-04	6.57E-04	6.10E-02
6.82E-03	4.25E-02	1.64E-03	1.06E-04	6.53E-04	6.53E-04	5.24E-02	6.82E-03	4.25E-02	1.64E-03	1.06E-04	1.59E-04	6.53E-04	5.19E-02
5.68E-03	3.66E-02	1.60E-03	1.06E-04	6.46E-04	6.46E-04	4.53E-02	5.68E-03	3.66E-02	1.60E-03	1.06E-04	1.60E-04	6.46E-04	4.48E-02
4.81E-03	3.15E-02	1.56E-03	1.06E-04	6.36E-04	6.36E-04	3.92E-02	4.81E-03	3.15E-02	1.56E-03	1.06E-04	1.60E-04	6.36E-04	3.88E-02
1.49E-02	7.65E-02	1.74E-03	1.07E-04	6.73E-04	6.73E-04	9.46E-02	1.49E-02	7.65E-02	1.74E-03	1.07E-04	1.58E-04	6.73E-04	9.41E-02
1.07E-02	6.03E-02	1.72E-03	1.08E-04	6.71E-04	6.71E-04	7.42E-02	1.07E-02	6.03E-02	1.72E-03	1.08E-04	1.60E-04	6.71E-04	7.37E-02
8.32E-03	4.96E-02	1.70E-03	1.09E-04	6.70E-04	6.70E-04	6.11E-02	8.32E-03	4.96E-02	1.70E-03	1.09E-04	1.62E-04	6.70E-04	6.06E-02
6.74E-03	4.20E-02	1.67E-03	1.09E-04	6.65E-04	6.65E-04	5.19E-02	6.74E-03	4.20E-02	1.67E-03	1.09E-04	1.63E-04	6.65E-04	5.14E-02
6.36E-03	3.98E-02	1.73E-03	1.11E-04	6.88E-04	6.88E-04	4.93E-02	6.36E-03	3.98E-02	1.73E-03	1.11E-04	1.66E-04	6.88E-04	4.88E-02
5.26E-03	3.40E-02	1.68E-03	1.12E-04	6.75E-04	6.75E-04	4.24E-02	5.26E-03	3.40E-02	1.68E-03	1.12E-04	1.67E-04	6.75E-04	4.19E-02
9.52E-03	5.38E-02	1.81E-03	1.14E-04	7.07E-04	7.07E-04	6.66E-02	9.52E-03	5.38E-02	1.81E-03	1.14E-04	1.68E-04	7.07E-04	6.61E-02
7.59E-03	4.56E-02	1.79E-03	1.14E-04	7.05E-04	7.05E-04	5.66E-02	7.59E-03	4.56E-02	1.79E-03	1.14E-04	1.69E-04	7.05E-04	5.60E-02
6.20E-03	3.91E-02	1.76E-03	1.15E-04	6.96E-04	6.96E-04	4.86E-02	6.20E-03	3.91E-02	1.76E-03	1.15E-04	1.71E-04	6.96E-04	4.81E-02
1.25E-02	6.51E-02	1.87E-03	1.16E-04	7.22E-04	7.22E-04	8.11E-02	1.25E-02	6.51E-02	1.87E-03	1.16E-04	1.69E-04	7.22E-04	8.05E-02
9.43E-03	5.39E-02	1.85E-03	1.17E-04	7.20E-04	7.20E-04	6.67E-02	9.43E-03	5.39E-02	1.85E-03	1.17E-04	1.72E-04	7.20E-04	6.62E-02
7.47E-03	4.52E-02	1.83E-03	1.17E-04	7.16E-04	7.16E-04	5.60E-02	7.47E-03	4.52E-02	1.83E-03	1.17E-04	1.74E-04	7.16E-04	5.55E-02
8.89E-03	5.16E-02	1.86E-03	1.18E-04	7.23E-04	7.23E-04	6.39E-02	8.89E-03	5.16E-02	1.86E-03	1.18E-04	1.73E-04	7.23E-04	6.34E-02
7.13E-03	4.35E-02	1.84E-03	1.18E-04	7.19E-04	7.19E-04	5.41E-02	7.13E-03	4.35E-02	1.84E-03	1.18E-04	1.75E-04	7.19E-04	5.35E-02
1.15E-02	6.18E-02	1.93E-03	1.20E-04	7.41E-04	7.41E-04	7.69E-02	1.15E-02	6.18E-02	1.93E-03	1.20E-04	1.75E-04	7.41E-04	7.63E-02
8.84E-03	5.12E-02	1.91E-03	1.21E-04	7.41E-04	7.41E-04	6.35E-02	8.84E-03	5.12E-02	1.91E-03	1.21E-04	1.77E-04	7.41E-04	6.30E-02
7.14E-03	4.33E-02	1.90E-03	1.21E-04	7.39E-04	7.39E-04	5.40E-02	7.14E-03	4.33E-02	1.90E-03	1.21E-04	1.78E-04	7.39E-04	5.34E-02
1.60E-02	7.96E-02	2.00E-03	1.23E-04	7.54E-04	7.54E-04	9.92E-02	1.60E-02	7.96E-02	2.00E-03	1.23E-04	1.76E-04	7.54E-04	9.86E-02
1.14E-02	6.17E-02	1.98E-03	1.24E-04	7.57E-04	7.57E-04	7.67E-02	1.14E-02	6.17E-02	1.98E-03	1.24E-04	1.79E-04	7.57E-04	7.61E-02
8.79E-03	5.06E-02	1.97E-03	1.24E-04	7.58E-04	7.58E-04	6.30E-02	8.79E-03	5.06E-02	1.97E-03	1.24E-04	1.81E-04	7.58E-04	6.24E-02
3.99E-03	2.63E-02	1.87E-03	1.26E-04	7.14E-04	7.14E-04	3.37E-02	3.99E-03	2.63E-02	1.87E-03	1.26E-04	1.81E-04	7.14E-04	3.32E-02
3.57E-03	2.40E-02	1.85E-03	1.27E-04	7.06E-04	7.06E-04	3.09E-02	3.57E-03	2.40E-02	1.85E-03	1.27E-04	1.79E-04	7.06E-04	3.04E-02
3.13E-03	2.11E-02	1.81E-03	1.26E-04	6.84E-04	6.84E-04	2.76E-02	3.13E-03	2.11E-02	1.81E-03	1.26E-04	1.76E-04	6.84E-04	2.70E-02
5.26E-03	3.39E-02	1.98E-03	1.30E-04	7.51E-04	7.51E-04	4.28E-02	5.26E-03	3.39E-02	1.98E-03	1.30E-04	1.87E-04	7.51E-04	4.22E-02
4.54E-03	2.94E-02	1.96E-03	1.30E-04	7.42E-04	7.42E-04	3.75E-02	4.54E-03	2.94E-02	1.96E-03	1.30E-04	1.86E-04	7.42E-04	3.69E-02
4.01E-03	2.66E-02	1.95E-03	1.31E-04	7.35E-04	7.35E-04	3.41E-02	4.01E-03	2.66E-02	1.95E-03	1.31E-04	1.84E-04	7.35E-04	3.36E-02
3.60E-03	2.43E-02	1.93E-03	1.31E-04	7.26E-04	7.26E-04	3.14E-02	3.60E-03	2.43E-02	1.93E-03	1.31E-04	1.82E-04	7.26E-04	3.08E-02
6.18E-03	3.84E-02	2.06E-03	1.33E-04	7.74E-04	7.74E-04	4.83E-02	6.18E-03	3.84E-02	2.06E-03	1.33E-04	1.91E-04	7.74E-04	4.77E-02
5.29E-03	3.39E-02	2.05E-03	1.34E-04	7.70E-04	7.70E-04	4.29E-02	5.29E-03	3.39E-02	2.05E-03	1.34E-04	1.91E-04	7.70E-04	4.23E-02
4.68E-03	3.06E-02	2.05E-03	1.34E-04	7.71E-04	7.71E-04	3.90E-02	4.68E-03	3.06E-02	2.05E-03	1.34E-04	1.89E-04	7.71E-04	3.85E-02
4.09E-03	2.75E-02	2.04E-03	1.35E-04	7.61E-04	7.61E-04	3.53E-02	4.09E-03	2.75E-02	2.04E-03	1.35E-04	1.88E-04	7.61E-04	3.48E-02
1.24E-02	6.63E-02	2.16E-03	1.34E-04	8.01E-04	8.01E-04	8.26E-02	1.24E-02	6.63E-02	2.16E-03	1.34E-04	1.90E-04	8.01E-04	8.20E-02
8.46E-03	4.93E-02	2.14E-03	1.35E-04	7.99E-04	7.99E-04	6.16E-02	8.46E-03	4.93E-02	2.14E-03	1.35E-04	1.94E-04	7.99E-04	6.10E-02
6.88E-03	4.18E-02	2.14E-03	1.37E-04	7.96E-04	7.96E-04	5.25E-02	6.88E-03	4.18E-02	2.14E-03	1.37E-04	1.95E-04	7.96E-04	5.19E-02
1.09E-02	5.96E-02	2.23E-03	1.39E-04	8.20E-04	8.20E-04	7.45E-02	1.09E-02	5.96E-02	2.23E-03	1.39E-04	1.96E-04	8.20E-04	7.39E-02
8.43E-03	4.89E-02	2.22E-03	1.40E-04	8.19E-04	8.19E-04	6.13E-02	8.43E-03	4.89E-02	2.22E-03	1.40E-04	1.98E-04	8.19E-04	6.07E-02
6.84E-03	4.15E-02	2.22E-03	1.41E-04	8.15E-04	8.15E-04	5.23E-02	6.84E-03	4.15E-02	2.22E-03	1.41E-04	1.99E-04	8.15E-04	5.17E-02
1.07E-02	5.89E-02	2.31E-03	1.44E-04	8.37E-04	8.37E-04	7.38E-02	1.07E-02	5.89E-02	2.31E-03	1.44E-04	2.01E-04	8.37E-04	7.31E-02
8.28E-03	4.83E-02	2.31E-03	1.46E-04	8.33E-04	8.33E-04	6.07E-02	8.28E-03	4.83E-02	2.31E-03	1.46E-04	2.03E-04	8.33E-04	6.01E-02
1.42E-02	7.24E-02	2.41E-03	1.49E-04	8.54E-04	8.54E-04	9.08E-02	1.42E-02	7.24E-02	2.41E-03	1.49E-04	2.03E-04	8.54E-04	9.02E-02
1.02E-02	5.69E-02	2.41E-03	1.51E-04	8.51E-04	8.51E-04	7.14E-02	1.02E-02	5.69E-02	2.41E-03	1.51E-04	2.07E-04	8.51E-04	7.08E-02
1.39E-02	7.06E-02	2.52E-03	1.56E-04	8.71E-04	8.71E-04	8.89E-02	1.39E-02	7.06E-02	2.52E-03	1.56E-04	2.09E-04	8.71E-04	8.82E-02
9.94E-03	5.51E-02	2.52E-03	1.58E-04	8.69E-04	8.69E-04	6.94E-02	9.94E-03	5.51E-02	2.52E-03	1.58E-04	2.13E-04	8.69E-04	6.88E-02
7.38E-03	4.46E-02	2.68E-03	1.72E-04	8.91E-04	8.91E-04	5.66E-02	7.38E-03	4.46E-02	2.68E-03	1.72E-04	2.25E-04	8.91E-04	5.59E-02

5.94E-03	3.72E-02	2.65E-03	1.73E-04	8.84E-04	8.84E-04	4.78E-02	5.94E-03	3.72E-02	2.65E-03	1.73E-04	2.27E-04	8.84E-04	4.71E-02
4.94E-03	3.17E-02	2.61E-03	1.73E-04	8.76E-04	8.76E-04	4.12E-02	4.94E-03	3.17E-02	2.61E-03	1.73E-04	2.28E-04	8.76E-04	4.05E-02
8.34E-03	4.91E-02	2.82E-03	1.79E-04	9.14E-04	9.14E-04	6.23E-02	8.34E-03	4.91E-02	2.82E-03	1.79E-04	2.28E-04	9.14E-04	6.16E-02
6.55E-03	4.03E-02	2.79E-03	1.80E-04	9.08E-04	9.08E-04	5.17E-02	6.55E-03	4.03E-02	2.79E-03	1.80E-04	2.31E-04	9.08E-04	5.10E-02
5.40E-03	3.42E-02	2.75E-03	1.80E-04	9.02E-04	9.02E-04	4.44E-02	5.40E-03	3.42E-02	2.75E-03	1.80E-04	2.33E-04	9.02E-04	4.37E-02
9.72E-03	5.49E-02	2.98E-03	1.86E-04	9.37E-04	9.37E-04	6.96E-02	9.72E-03	5.49E-02	2.98E-03	1.86E-04	2.29E-04	9.37E-04	6.89E-02
7.36E-03	4.40E-02	2.94E-03	1.88E-04	9.33E-04	9.33E-04	5.64E-02	7.36E-03	4.40E-02	2.94E-03	1.88E-04	2.34E-04	9.33E-04	5.57E-02
5.95E-03	3.70E-02	2.90E-03	1.88E-04	9.30E-04	9.30E-04	4.79E-02	5.95E-03	3.70E-02	2.90E-03	1.88E-04	2.38E-04	9.30E-04	4.72E-02
8.44E-03	4.88E-02	3.12E-03	1.96E-04	9.57E-04	9.57E-04	6.25E-02	8.44E-03	4.88E-02	3.12E-03	1.96E-04	2.36E-04	9.57E-04	6.17E-02
6.61E-03	4.01E-02	3.07E-03	1.97E-04	9.56E-04	9.56E-04	5.19E-02	6.61E-03	4.01E-02	3.07E-03	1.97E-04	2.41E-04	9.56E-04	5.12E-02
1.86E-03	1.97E-03	1.04E-02	6.88E-04	1.23E-03	1.23E-03	1.74E-02	1.86E-03	1.97E-03	1.04E-02	6.88E-04	4.78E-04	1.23E-03	1.66E-02
1.77E-03	1.95E-03	1.01E-02	6.67E-04	1.21E-03	1.21E-03	1.69E-02	1.77E-03	1.95E-03	1.01E-02	6.67E-04	4.60E-04	1.21E-03	1.62E-02
1.98E-03	1.86E-03	1.08E-02	7.13E-04	1.27E-03	1.27E-03	1.79E-02	1.98E-03	1.86E-03	1.08E-02	7.13E-04	4.88E-04	1.27E-03	1.71E-02
1.89E-03	1.86E-03	1.06E-02	7.02E-04	1.26E-03	1.26E-03	1.76E-02	1.89E-03	1.86E-03	1.06E-02	7.02E-04	4.76E-04	1.26E-03	1.68E-02
4.35E-03	1.56E-03	1.60E-02	1.15E-03	1.62E-03	1.62E-03	2.63E-02	4.35E-03	1.56E-03	1.60E-02	1.15E-03	5.64E-04	1.62E-03	2.52E-02
3.73E-03	1.55E-03	1.52E-02	1.09E-03	1.60E-03	1.60E-03	2.48E-02	3.73E-03	1.55E-03	1.52E-02	1.09E-03	5.58E-04	1.60E-03	2.37E-02
5.85E-03	1.50E-03	1.77E-02	1.37E-03	1.74E-03	1.74E-03	2.99E-02	5.85E-03	1.50E-03	1.77E-02	1.37E-03	5.77E-04	1.74E-03	2.87E-02
4.72E-03	1.48E-03	1.66E-02	1.28E-03	1.70E-03	1.70E-03	2.75E-02	4.72E-03	1.48E-03	1.66E-02	1.28E-03	5.63E-04	1.70E-03	2.64E-02
3.53E-03	1.25E-03	2.88E-02	5.26E-03	1.22E-02	1.22E-02	6.33E-02	3.53E-03	1.25E-03	2.88E-02	5.26E-03	8.42E-03	1.22E-02	5.95E-02
3.08E-03	1.23E-03	2.72E-02	4.70E-03	1.11E-02	1.11E-02	5.84E-02	3.08E-03	1.23E-03	2.72E-02	4.70E-03	7.46E-03	1.11E-02	5.48E-02
4.02E-03	1.23E-03	3.00E-02	5.76E-03	1.42E-02	1.42E-02	6.95E-02	4.02E-03	1.23E-03	3.00E-02	5.76E-03	1.01E-02	1.42E-02	6.54E-02
3.48E-03	1.22E-03	2.89E-02	5.20E-03	1.32E-02	1.32E-02	6.52E-02	3.48E-03	1.22E-03	2.89E-02	5.20E-03	9.21E-03	1.32E-02	6.13E-02
5.11E-03	1.23E-03	3.35E-02	7.03E-03	1.84E-02	1.84E-02	8.36E-02	5.11E-03	1.23E-03	3.35E-02	7.03E-03	1.36E-02	1.84E-02	7.88E-02
4.18E-03	1.22E-03	3.19E-02	6.08E-03	1.64E-02	1.64E-02	7.61E-02	4.18E-03	1.22E-03	3.19E-02	6.08E-03	1.18E-02	1.64E-02	7.16E-02
5.23E-03	1.22E-03	3.51E-02	7.28E-03	2.04E-02	2.04E-02	8.97E-02	5.23E-03	1.22E-03	3.51E-02	7.28E-03	1.52E-02	2.04E-02	8.45E-02
4.27E-03	1.21E-03	3.32E-02	6.29E-03	1.81E-02	1.81E-02	8.11E-02	4.27E-03	1.21E-03	3.32E-02	6.29E-03	1.32E-02	1.81E-02	7.62E-02
2.48E-03	1.09E-03	3.20E-02	4.36E-03	1.72E-02	1.72E-02	7.43E-02	2.48E-03	1.09E-03	3.20E-02	4.36E-03	1.16E-02	1.72E-02	6.87E-02
2.27E-03	1.08E-03	3.05E-02	4.02E-03	1.60E-02	1.60E-02	6.98E-02	2.27E-03	1.08E-03	3.05E-02	4.02E-03	1.06E-02	1.60E-02	6.44E-02
2.72E-03	1.08E-03	3.37E-02	4.76E-03	1.89E-02	1.89E-02	8.01E-02	2.72E-03	1.08E-03	3.37E-02	4.76E-03	1.30E-02	1.89E-02	7.41E-02
2.46E-03	1.07E-03	3.20E-02	4.35E-03	1.75E-02	1.75E-02	7.48E-02	2.46E-03	1.07E-03	3.20E-02	4.35E-03	1.18E-02	1.75E-02	6.91E-02
3.02E-03	1.07E-03	3.55E-02	5.26E-03	2.09E-02	2.09E-02	8.67E-02	3.02E-03	1.07E-03	3.55E-02	5.26E-03	1.45E-02	2.09E-02	8.03E-02
2.72E-03	1.07E-03	3.39E-02	4.79E-03	1.94E-02	1.94E-02	8.13E-02	2.72E-03	1.07E-03	3.39E-02	4.79E-03	1.32E-02	1.94E-02	7.51E-02
3.43E-03	1.07E-03	3.78E-02	5.99E-03	2.36E-02	2.36E-02	9.56E-02	3.43E-03	1.07E-03	3.78E-02	5.99E-03	1.67E-02	2.36E-02	8.86E-02
3.01E-03	1.06E-03	3.56E-02	5.27E-03	2.13E-02	2.13E-02	8.77E-02	3.01E-03	1.06E-03	3.56E-02	5.27E-03	1.48E-02	2.13E-02	8.11E-02
2.31E-03	9.24E-04	3.59E-02	4.68E-03	2.13E-02	2.13E-02	8.64E-02	2.31E-03	9.24E-04	3.59E-02	4.68E-03	1.31E-02	2.13E-02	7.82E-02
2.17E-03	9.22E-04	3.51E-02	4.38E-03	2.04E-02	2.04E-02	8.35E-02	2.17E-03	9.22E-04	3.51E-02	4.38E-03	1.24E-02	2.04E-02	7.54E-02
2.04E-03	9.19E-04	3.43E-02	4.12E-03	1.96E-02	1.96E-02	8.06E-02	2.04E-03	9.19E-04	3.43E-02	4.12E-03	1.17E-02	1.96E-02	7.27E-02
2.50E-03	9.25E-04	3.76E-02	5.12E-03	2.29E-02	2.29E-02	9.20E-02	2.50E-03	9.25E-04	3.76E-02	5.12E-03	1.43E-02	2.29E-02	8.34E-02
2.33E-03	9.25E-04	3.69E-02	4.75E-03	2.19E-02	2.19E-02	8.87E-02	2.33E-03	9.25E-04	3.69E-02	4.75E-03	1.35E-02	2.19E-02	8.03E-02
2.19E-03	9.23E-04	3.61E-02	4.44E-03	2.10E-02	2.10E-02	8.55E-02	2.19E-03	9.23E-04	3.61E-02	4.44E-03	1.26E-02	2.10E-02	7.72E-02
1.69E-03	9.15E-04	3.05E-02	3.33E-03	1.65E-02	1.65E-02	6.95E-02	1.69E-03	9.15E-04	3.05E-02	3.33E-03	9.41E-03	1.65E-02	6.24E-02
1.62E-03	9.15E-04	2.99E-02	3.19E-03	1.60E-02	1.60E-02	6.77E-02	1.62E-03	9.15E-04	2.99E-02	3.19E-03	9.02E-03	1.60E-02	6.07E-02
1.78E-03	9.16E-04	3.18E-02	3.54E-03	1.75E-02	1.75E-02	7.30E-02	1.78E-03	9.16E-04	3.18E-02	3.54E-03	1.00E-02	1.75E-02	6.56E-02
1.71E-03	9.14E-04	3.12E-02	3.38E-03	1.69E-02	1.69E-02	7.10E-02	1.71E-03	9.14E-04	3.12E-02	3.38E-03	9.59E-03	1.69E-02	6.37E-02
1.32E-03	9.18E-04	2.76E-02	2.52E-03	1.39E-02	1.39E-02	6.02E-02	1.32E-03	9.18E-04	2.76E-02	2.52E-03	7.18E-03	1.39E-02	5.34E-02
1.29E-03	9.20E-04	2.71E-02	2.44E-03	1.36E-02	1.36E-02	5.90E-02	1.29E-03	9.20E-04	2.71E-02	2.44E-03	6.94E-03	1.36E-02	5.23E-02
1.26E-03	9.22E-04	2.67E-02	2.37E-03	1.34E-02	1.34E-02	5.80E-02	1.26E-03	9.22E-04	2.67E-02	2.37E-03	6.71E-03	1.34E-02	5.13E-02
1.37E-03	9.17E-04	2.86E-02	2.62E-03	1.45E-02	1.45E-02	6.25E-02	1.37E-03	9.17E-04	2.86E-02	2.62E-03	7.50E-03	1.45E-02	5.55E-02
1.33E-03	9.19E-04	2.81E-02	2.53E-03	1.42E-02	1.42E-02	6.12E-02	1.33E-03	9.19E-04	2.81E-02	2.53E-03	7.23E-03	1.42E-02	5.43E-02
1.29E-03	9.21E-04	2.76E-02	2.45E-03	1.39E-02	1.39E-02	6.01E-02	1.29E-03	9.21E-04	2.76E-02	2.45E-03	7.01E-03	1.39E-02	5.32E-02
1.42E-03	9.16E-04	2.96E-02	2.73E-03	1.51E-02	1.51E-02	6.49E-02	1.42E-03	9.16E-04	2.96E-02	2.73E-03	7.85E-03	1.51E-02	5.76E-02
1.37E-03	9.18E-04	2.91E-02	2.63E-03	1.47E-02	1.47E-02	6.34E-02	1.37E-03	9.18E-04	2.91E-02	2.63E-03	7.56E-03	1.47E-02	5.63E-02
1.34E-03	9.21E-04	2.86E-02	2.54E-03	1.44E-02	1.44E-02	6.22E-02	1.34E-03	9.21E-04	2.86E-02	2.54E-03	7.28E-03	1.44E-02	5.51E-02
4.39E-03	1.20E-02	1.30E-02	9.57E-04	2.18E-02	2.18E-02	7.40E-02	4.39E-03	1.20E-02	1.30E-02	9.57E-04	4.62E-04	2.18E-02	5.26E-02

4.06E-03	1.17E-02	1.26E-02	8.93E-04	2.13E-02	2.13E-02	7.18E-02	4.06E-03	1.17E-02	1.26E-02	8.93E-04	4.60E-04	2.13E-02	5.10E-02
3.77E-03	1.13E-02	1.23E-02	8.40E-04	2.07E-02	2.07E-02	6.96E-02	3.77E-03	1.13E-02	1.23E-02	8.40E-04	4.59E-04	2.07E-02	4.94E-02
3.52E-03	1.09E-02	1.21E-02	7.95E-04	2.02E-02	2.02E-02	6.77E-02	3.52E-03	1.09E-02	1.21E-02	7.95E-04	4.58E-04	2.02E-02	4.80E-02
3.31E-03	1.06E-02	1.19E-02	7.58E-04	1.97E-02	1.97E-02	6.59E-02	3.31E-03	1.06E-02	1.19E-02	7.58E-04	4.58E-04	1.97E-02	4.67E-02
3.13E-03	1.03E-02	1.16E-02	7.25E-04	1.92E-02	1.92E-02	6.42E-02	3.13E-03	1.03E-02	1.16E-02	7.25E-04	4.58E-04	1.92E-02	4.54E-02
2.97E-03	9.96E-03	1.14E-02	6.97E-04	1.88E-02	1.88E-02	6.26E-02	2.97E-03	9.96E-03	1.14E-02	6.97E-04	4.58E-04	1.88E-02	4.43E-02
2.82E-03	9.66E-03	1.13E-02	6.72E-04	1.83E-02	1.83E-02	6.10E-02	2.82E-03	9.66E-03	1.13E-02	6.72E-04	4.59E-04	1.83E-02	4.32E-02
2.69E-03	9.37E-03	1.11E-02	6.50E-04	1.79E-02	1.79E-02	5.95E-02	2.69E-03	9.37E-03	1.11E-02	6.50E-04	4.61E-04	1.79E-02	4.21E-02
2.57E-03	9.10E-03	1.09E-02	6.30E-04	1.75E-02	1.75E-02	5.82E-02	2.57E-03	9.10E-03	1.09E-02	6.30E-04	4.63E-04	1.75E-02	4.11E-02
2.47E-03	8.86E-03	1.08E-02	6.12E-04	1.71E-02	1.71E-02	5.69E-02	2.47E-03	8.86E-03	1.08E-02	6.12E-04	4.65E-04	1.71E-02	4.03E-02
2.37E-03	8.62E-03	1.06E-02	5.96E-04	1.67E-02	1.67E-02	5.56E-02	2.37E-03	8.62E-03	1.06E-02	5.96E-04	4.67E-04	1.67E-02	3.94E-02
2.28E-03	8.41E-03	1.05E-02	5.81E-04	1.64E-02	1.64E-02	5.45E-02	2.28E-03	8.41E-03	1.05E-02	5.81E-04	4.69E-04	1.64E-02	3.86E-02
2.19E-03	8.20E-03	1.03E-02	5.67E-04	1.60E-02	1.60E-02	5.34E-02	2.19E-03	8.20E-03	1.03E-02	5.67E-04	4.72E-04	1.60E-02	3.78E-02
2.12E-03	7.98E-03	1.02E-02	5.54E-04	1.57E-02	1.57E-02	5.23E-02	2.12E-03	7.98E-03	1.02E-02	5.54E-04	4.75E-04	1.57E-02	3.70E-02
2.04E-03	7.69E-03	1.01E-02	5.42E-04	1.54E-02	1.54E-02	5.11E-02	2.04E-03	7.69E-03	1.01E-02	5.42E-04	4.78E-04	1.54E-02	3.62E-02
5.09E-03	1.71E-02	1.21E-02	8.75E-04	2.34E-02	2.34E-02	8.19E-02	5.09E-03	1.71E-02	1.21E-02	8.75E-04	4.49E-04	2.34E-02	5.90E-02
4.64E-03	1.61E-02	1.18E-02	8.21E-04	2.26E-02	2.26E-02	7.86E-02	4.64E-03	1.61E-02	1.18E-02	8.21E-04	4.47E-04	2.26E-02	5.64E-02
4.27E-03	1.52E-02	1.16E-02	7.77E-04	2.20E-02	2.20E-02	7.57E-02	4.27E-03	1.52E-02	1.16E-02	7.77E-04	4.45E-04	2.20E-02	5.42E-02
3.96E-03	1.44E-02	1.14E-02	7.39E-04	2.13E-02	2.13E-02	7.31E-02	3.96E-03	1.44E-02	1.14E-02	7.39E-04	4.43E-04	2.13E-02	5.22E-02
3.69E-03	1.36E-02	1.12E-02	7.06E-04	2.07E-02	2.07E-02	7.07E-02	3.69E-03	1.36E-02	1.12E-02	7.06E-04	4.42E-04	2.07E-02	5.04E-02
3.46E-03	1.30E-02	1.10E-02	6.78E-04	2.02E-02	2.02E-02	6.85E-02	3.46E-03	1.30E-02	1.10E-02	6.78E-04	4.42E-04	2.02E-02	4.87E-02
3.26E-03	1.24E-02	1.08E-02	6.53E-04	1.96E-02	1.96E-02	6.63E-02	3.26E-03	1.24E-02	1.08E-02	6.53E-04	4.42E-04	1.96E-02	4.72E-02
3.08E-03	1.19E-02	1.07E-02	6.31E-04	1.91E-02	1.91E-02	6.45E-02	3.08E-03	1.19E-02	1.07E-02	6.31E-04	4.42E-04	1.91E-02	4.58E-02
2.93E-03	1.14E-02	1.05E-02	6.12E-04	1.86E-02	1.86E-02	6.27E-02	2.93E-03	1.14E-02	1.05E-02	6.12E-04	4.43E-04	1.86E-02	4.45E-02
2.78E-03	1.09E-02	1.04E-02	5.95E-04	1.82E-02	1.82E-02	6.10E-02	2.78E-03	1.09E-02	1.04E-02	5.95E-04	4.44E-04	1.82E-02	4.33E-02
2.66E-03	1.06E-02	1.02E-02	5.79E-04	1.77E-02	1.77E-02	5.95E-02	2.66E-03	1.06E-02	1.02E-02	5.79E-04	4.46E-04	1.77E-02	4.22E-02
2.55E-03	1.02E-02	1.01E-02	5.64E-04	1.73E-02	1.73E-02	5.80E-02	2.55E-03	1.02E-02	1.01E-02	5.64E-04	4.48E-04	1.73E-02	4.12E-02
2.45E-03	9.90E-03	9.96E-03	5.51E-04	1.70E-02	1.70E-02	5.68E-02	2.45E-03	9.90E-03	9.96E-03	5.51E-04	4.49E-04	1.70E-02	4.03E-02
2.35E-03	9.58E-03	9.84E-03	5.39E-04	1.66E-02	1.66E-02	5.54E-02	2.35E-03	9.58E-03	9.84E-03	5.39E-04	4.52E-04	1.66E-02	3.93E-02
2.25E-03	9.25E-03	9.72E-03	5.28E-04	1.62E-02	1.62E-02	5.41E-02	2.25E-03	9.25E-03	9.72E-03	5.28E-04	4.55E-04	1.62E-02	3.84E-02
2.17E-03	8.89E-03	9.61E-03	5.17E-04	1.58E-02	1.58E-02	5.28E-02	2.17E-03	8.89E-03	9.61E-03	5.17E-04	4.57E-04	1.58E-02	3.74E-02
6.07E-03	2.40E-02	1.12E-02	7.75E-04	2.49E-02	2.49E-02	9.19E-02	6.07E-03	2.40E-02	1.12E-02	7.75E-04	4.38E-04	2.49E-02	6.74E-02
5.45E-03	2.18E-02	1.10E-02	7.37E-04	2.41E-02	2.41E-02	8.71E-02	5.45E-03	2.18E-02	1.10E-02	7.37E-04	4.35E-04	2.41E-02	6.35E-02
4.94E-03	2.01E-02	1.08E-02	7.04E-04	2.32E-02	2.32E-02	8.29E-02	4.94E-03	2.01E-02	1.08E-02	7.04E-04	4.33E-04	2.32E-02	6.02E-02
4.52E-03	1.86E-02	1.06E-02	6.75E-04	2.25E-02	2.25E-02	7.94E-02	4.52E-03	1.86E-02	1.06E-02	6.75E-04	4.31E-04	2.25E-02	5.73E-02
4.18E-03	1.73E-02	1.05E-02	6.49E-04	2.18E-02	2.18E-02	7.62E-02	4.18E-03	1.73E-02	1.05E-02	6.49E-04	4.29E-04	2.18E-02	5.48E-02
3.88E-03	1.63E-02	1.03E-02	6.26E-04	2.11E-02	2.11E-02	7.33E-02	3.88E-03	1.63E-02	1.03E-02	6.26E-04	4.28E-04	2.11E-02	5.27E-02
3.63E-03	1.53E-02	1.02E-02	6.06E-04	2.05E-02	2.05E-02	7.07E-02	3.63E-03	1.53E-02	1.02E-02	6.06E-04	4.28E-04	2.05E-02	5.07E-02
3.41E-03	1.45E-02	1.01E-02	5.88E-04	1.99E-02	1.99E-02	6.84E-02	3.41E-03	1.45E-02	1.01E-02	5.88E-04	4.27E-04	1.99E-02	4.89E-02
3.21E-03	1.38E-02	9.93E-03	5.72E-04	1.94E-02	1.94E-02	6.62E-02	3.21E-03	1.38E-02	9.93E-03	5.72E-04	4.28E-04	1.94E-02	4.72E-02
3.05E-03	1.31E-02	9.81E-03	5.57E-04	1.89E-02	1.89E-02	6.42E-02	3.05E-03	1.31E-02	9.81E-03	5.57E-04	4.28E-04	1.89E-02	4.58E-02
2.90E-03	1.25E-02	9.69E-03	5.44E-04	1.84E-02	1.84E-02	6.25E-02	2.90E-03	1.25E-02	9.69E-03	5.44E-04	4.29E-04	1.84E-02	4.45E-02
2.76E-03	1.20E-02	9.58E-03	5.32E-04	1.79E-02	1.79E-02	6.07E-02	2.76E-03	1.20E-02	9.58E-03	5.32E-04	4.30E-04	1.79E-02	4.32E-02
2.64E-03	1.16E-02	9.47E-03	5.20E-04	1.75E-02	1.75E-02	5.92E-02	2.64E-03	1.16E-02	9.47E-03	5.20E-04	4.31E-04	1.75E-02	4.21E-02
2.53E-03	1.11E-02	9.37E-03	5.10E-04	1.71E-02	1.71E-02	5.77E-02	2.53E-03	1.11E-02	9.37E-03	5.10E-04	4.33E-04	1.71E-02	4.10E-02
2.42E-03	1.07E-02	9.27E-03	5.00E-04	1.66E-02	1.66E-02	5.62E-02	2.42E-03	1.07E-02	9.27E-03	5.00E-04	4.36E-04	1.66E-02	4.00E-02
2.31E-03	1.02E-02	9.18E-03	4.91E-04	1.62E-02	1.62E-02	5.45E-02	2.31E-03	1.02E-02	9.18E-03	4.91E-04	4.39E-04	1.62E-02	3.87E-02
6.58E-03	2.92E-02	1.02E-02	6.50E-04	2.54E-02	2.54E-02	9.74E-02	6.58E-03	2.92E-02	1.02E-02	6.50E-04	4.25E-04	2.54E-02	7.25E-02
5.85E-03	2.62E-02	1.00E-02	6.29E-04	2.44E-02	2.44E-02	9.16E-02	5.85E-03	2.62E-02	1.00E-02	6.29E-04	4.23E-04	2.44E-02	6.76E-02
5.29E-03	2.38E-02	9.90E-03	6.09E-04	2.36E-02	2.36E-02	8.69E-02	5.29E-03	2.38E-02	9.90E-03	6.09E-04	4.20E-04	2.36E-02	6.37E-02
4.82E-03	2.19E-02	9.79E-03	5.91E-04	2.28E-02	2.28E-02	8.26E-02	4.82E-03	2.19E-02	9.79E-03	5.91E-04	4.18E-04	2.28E-02	6.03E-02
4.43E-03	2.02E-02	9.68E-03	5.74E-04	2.20E-02	2.20E-02	7.89E-02	4.43E-03	2.02E-02	9.68E-03	5.74E-04	4.16E-04	2.20E-02	5.73E-02
4.10E-03	1.88E-02	9.57E-03	5.58E-04	2.13E-02	2.13E-02	7.57E-02	4.10E-03	1.88E-02	9.57E-03	5.58E-04	4.15E-04	2.13E-02	5.48E-02
3.82E-03	1.76E-02	9.47E-03	5.44E-04	2.07E-02	2.07E-02	7.28E-02	3.82E-03	1.76E-02	9.47E-03	5.44E-04	4.14E-04	2.07E-02	5.25E-02

3.58E-03	1.65E-02	9.37E-03	5.31E-04	2.01E-02	2.01E-02	7.01E-02	3.58E-03	1.65E-02	9.37E-03	5.31E-04	4.14E-04	2.01E-02	5.05E-02
3.37E-03	1.56E-02	9.28E-03	5.19E-04	1.95E-02	1.95E-02	6.78E-02	3.37E-03	1.56E-02	9.28E-03	5.19E-04	4.13E-04	1.95E-02	4.87E-02
3.19E-03	1.48E-02	9.18E-03	5.08E-04	1.90E-02	1.90E-02	6.57E-02	3.19E-03	1.48E-02	9.18E-03	5.08E-04	4.14E-04	1.90E-02	4.71E-02
3.02E-03	1.41E-02	9.09E-03	4.99E-04	1.85E-02	1.85E-02	6.37E-02	3.02E-03	1.41E-02	9.09E-03	4.99E-04	4.14E-04	1.85E-02	4.57E-02
2.87E-03	1.34E-02	9.00E-03	4.89E-04	1.80E-02	1.80E-02	6.17E-02	2.87E-03	1.34E-02	9.00E-03	4.89E-04	4.15E-04	1.80E-02	4.42E-02
2.74E-03	1.28E-02	8.92E-03	4.81E-04	1.75E-02	1.75E-02	6.00E-02	2.74E-03	1.28E-02	8.92E-03	4.81E-04	4.17E-04	1.75E-02	4.29E-02
2.61E-03	1.23E-02	8.83E-03	4.73E-04	1.71E-02	1.71E-02	5.83E-02	2.61E-03	1.23E-02	8.83E-03	4.73E-04	4.18E-04	1.71E-02	4.17E-02
2.46E-03	1.15E-02	8.76E-03	4.64E-04	1.64E-02	1.64E-02	5.59E-02	2.46E-03	1.15E-02	8.76E-03	4.64E-04	4.22E-04	1.64E-02	4.00E-02
7.22E-03	3.42E-02	9.28E-03	5.59E-04	2.55E-02	2.55E-02	1.02E-01	7.22E-03	3.42E-02	9.28E-03	5.59E-04	4.13E-04	2.55E-02	7.72E-02
6.37E-03	3.04E-02	9.21E-03	5.47E-04	2.46E-02	2.46E-02	9.57E-02	6.37E-03	3.04E-02	9.21E-03	5.47E-04	4.10E-04	2.46E-02	7.15E-02
5.70E-03	2.74E-02	9.13E-03	5.35E-04	2.37E-02	2.37E-02	9.01E-02	5.70E-03	2.74E-02	9.13E-03	5.35E-04	4.08E-04	2.37E-02	6.69E-02
5.17E-03	2.50E-02	9.06E-03	5.23E-04	2.28E-02	2.28E-02	8.55E-02	5.17E-03	2.50E-02	9.06E-03	5.23E-04	4.05E-04	2.28E-02	6.30E-02
4.72E-03	2.30E-02	8.99E-03	5.12E-04	2.21E-02	2.21E-02	8.13E-02	4.72E-03	2.30E-02	8.99E-03	5.12E-04	4.04E-04	2.21E-02	5.97E-02
4.35E-03	2.13E-02	8.91E-03	5.02E-04	2.14E-02	2.14E-02	7.78E-02	4.35E-03	2.13E-02	8.91E-03	5.02E-04	4.02E-04	2.14E-02	5.68E-02
4.04E-03	1.98E-02	8.84E-03	4.92E-04	2.07E-02	2.07E-02	7.46E-02	4.04E-03	1.98E-02	8.84E-03	4.92E-04	4.01E-04	2.07E-02	5.43E-02
3.78E-03	1.86E-02	8.76E-03	4.83E-04	2.01E-02	2.01E-02	7.18E-02	3.78E-03	1.86E-02	8.76E-03	4.83E-04	4.00E-04	2.01E-02	5.21E-02
3.54E-03	1.75E-02	8.69E-03	4.74E-04	1.95E-02	1.95E-02	6.93E-02	3.54E-03	1.75E-02	8.69E-03	4.74E-04	4.00E-04	1.95E-02	5.02E-02
3.33E-03	1.65E-02	8.62E-03	4.66E-04	1.90E-02	1.90E-02	6.68E-02	3.33E-03	1.65E-02	8.62E-03	4.66E-04	4.00E-04	1.90E-02	4.83E-02
3.15E-03	1.56E-02	8.55E-03	4.59E-04	1.84E-02	1.84E-02	6.46E-02	3.15E-03	1.56E-02	8.55E-03	4.59E-04	4.01E-04	1.84E-02	4.66E-02
2.99E-03	1.48E-02	8.48E-03	4.52E-04	1.79E-02	1.79E-02	6.26E-02	2.99E-03	1.48E-02	8.48E-03	4.52E-04	4.02E-04	1.79E-02	4.51E-02
2.84E-03	1.41E-02	8.41E-03	4.45E-04	1.74E-02	1.74E-02	6.06E-02	2.84E-03	1.41E-02	8.41E-03	4.45E-04	4.03E-04	1.74E-02	4.36E-02
2.65E-03	1.30E-02	8.35E-03	4.38E-04	1.66E-02	1.66E-02	5.77E-02	2.65E-03	1.30E-02	8.35E-03	4.38E-04	4.07E-04	1.66E-02	4.15E-02
7.01E-03	3.47E-02	8.51E-03	4.84E-04	2.44E-02	2.44E-02	9.96E-02	7.01E-03	3.47E-02	8.51E-03	4.84E-04	3.99E-04	2.44E-02	7.55E-02
6.21E-03	3.11E-02	8.47E-03	4.76E-04	2.35E-02	2.35E-02	9.33E-02	6.21E-03	3.11E-02	8.47E-03	4.76E-04	3.96E-04	2.35E-02	7.02E-02
5.58E-03	2.82E-02	8.43E-03	4.69E-04	2.27E-02	2.27E-02	8.81E-02	5.58E-03	2.82E-02	8.43E-03	4.69E-04	3.94E-04	2.27E-02	6.58E-02
5.07E-03	2.59E-02	8.37E-03	4.62E-04	2.20E-02	2.20E-02	8.37E-02	5.07E-03	2.59E-02	8.37E-03	4.62E-04	3.92E-04	2.20E-02	6.21E-02
4.66E-03	2.39E-02	8.32E-03	4.55E-04	2.13E-02	2.13E-02	7.99E-02	4.66E-03	2.39E-02	8.32E-03	4.55E-04	3.90E-04	2.13E-02	5.90E-02
4.30E-03	2.22E-02	8.27E-03	4.48E-04	2.06E-02	2.06E-02	7.65E-02	4.30E-03	2.22E-02	8.27E-03	4.48E-04	3.89E-04	2.06E-02	5.62E-02
4.00E-03	2.07E-02	8.21E-03	4.41E-04	2.00E-02	2.00E-02	7.34E-02	4.00E-03	2.07E-02	8.21E-03	4.41E-04	3.88E-04	2.00E-02	5.38E-02
3.73E-03	1.94E-02	8.16E-03	4.35E-04	1.94E-02	1.94E-02	7.06E-02	3.73E-03	1.94E-02	8.16E-03	4.35E-04	3.88E-04	1.94E-02	5.15E-02
3.50E-03	1.82E-02	8.11E-03	4.29E-04	1.88E-02	1.88E-02	6.79E-02	3.50E-03	1.82E-02	8.11E-03	4.29E-04	3.88E-04	1.88E-02	4.95E-02
3.30E-03	1.72E-02	8.05E-03	4.23E-04	1.83E-02	1.83E-02	6.56E-02	3.30E-03	1.72E-02	8.05E-03	4.23E-04	3.88E-04	1.83E-02	4.77E-02
3.12E-03	1.62E-02	8.00E-03	4.18E-04	1.78E-02	1.78E-02	6.33E-02	3.12E-03	1.62E-02	8.00E-03	4.18E-04	3.89E-04	1.78E-02	4.59E-02
2.91E-03	1.49E-02	7.95E-03	4.13E-04	1.70E-02	1.70E-02	6.02E-02	2.91E-03	1.49E-02	7.95E-03	4.13E-04	3.92E-04	1.70E-02	4.36E-02
6.83E-03	3.53E-02	7.90E-03	4.30E-04	2.32E-02	2.32E-02	9.69E-02	6.83E-03	3.53E-02	7.90E-03	4.30E-04	3.85E-04	2.32E-02	7.41E-02
6.08E-03	3.18E-02	7.87E-03	4.25E-04	2.25E-02	2.25E-02	9.12E-02	6.08E-03	3.18E-02	7.87E-03	4.25E-04	3.83E-04	2.25E-02	6.91E-02
5.49E-03	2.90E-02	7.83E-03	4.20E-04	2.17E-02	2.17E-02	8.62E-02	5.49E-03	2.90E-02	7.83E-03	4.20E-04	3.81E-04	2.17E-02	6.48E-02
5.00E-03	2.66E-02	7.80E-03	4.15E-04	2.11E-02	2.11E-02	8.19E-02	5.00E-03	2.66E-02	7.80E-03	4.15E-04	3.79E-04	2.11E-02	6.13E-02
4.59E-03	2.46E-02	7.76E-03	4.11E-04	2.04E-02	2.04E-02	7.82E-02	4.59E-03	2.46E-02	7.76E-03	4.11E-04	3.77E-04	2.04E-02	5.82E-02
4.24E-03	2.28E-02	7.72E-03	4.06E-04	1.98E-02	1.98E-02	7.48E-02	4.24E-03	2.28E-02	7.72E-03	4.06E-04	3.77E-04	1.98E-02	5.54E-02
3.94E-03	2.13E-02	7.69E-03	4.01E-04	1.92E-02	1.92E-02	7.17E-02	3.94E-03	2.13E-02	7.69E-03	4.01E-04	3.76E-04	1.92E-02	5.29E-02
3.69E-03	2.00E-02	7.65E-03	3.97E-04	1.86E-02	1.86E-02	6.89E-02	3.69E-03	2.00E-02	7.65E-03	3.97E-04	3.76E-04	1.86E-02	5.07E-02
3.45E-03	1.86E-02	7.61E-03	3.93E-04	1.80E-02	1.80E-02	6.60E-02	3.45E-03	1.86E-02	7.61E-03	3.93E-04	3.77E-04	1.80E-02	4.84E-02
3.22E-03	1.72E-02	7.57E-03	3.88E-04	1.74E-02	1.74E-02	6.31E-02	3.22E-03	1.72E-02	7.57E-03	3.88E-04	3.78E-04	1.74E-02	4.61E-02
8.78E-03	4.54E-02	7.40E-03	3.96E-04	2.36E-02	2.36E-02	1.09E-01	8.78E-03	4.54E-02	7.40E-03	3.96E-04	3.77E-04	2.36E-02	8.60E-02
7.58E-03	4.00E-02	7.39E-03	3.93E-04	2.28E-02	2.28E-02	1.01E-01	7.58E-03	4.00E-02	7.39E-03	3.93E-04	3.74E-04	2.28E-02	7.86E-02
6.68E-03	3.58E-02	7.37E-03	3.89E-04	2.21E-02	2.21E-02	9.44E-02	6.68E-03	3.58E-02	7.37E-03	3.89E-04	3.72E-04	2.21E-02	7.27E-02
5.98E-03	3.24E-02	7.35E-03	3.86E-04	2.14E-02	2.14E-02	8.89E-02	5.98E-03	3.24E-02	7.35E-03	3.86E-04	3.70E-04	2.14E-02	6.79E-02
5.40E-03	2.95E-02	7.34E-03	3.83E-04	2.07E-02	2.07E-02	8.41E-02	5.40E-03	2.95E-02	7.34E-03	3.83E-04	3.68E-04	2.07E-02	6.37E-02
4.92E-03	2.71E-02	7.31E-03	3.79E-04	2.01E-02	2.01E-02	7.99E-02	4.92E-03	2.71E-02	7.31E-03	3.79E-04	3.67E-04	2.01E-02	6.02E-02
4.52E-03	2.51E-02	7.29E-03	3.76E-04	1.94E-02	1.94E-02	7.61E-02	4.52E-03	2.51E-02	7.29E-03	3.76E-04	3.66E-04	1.94E-02	5.70E-02
4.19E-03	2.33E-02	7.26E-03	3.72E-04	1.89E-02	1.89E-02	7.29E-02	4.19E-03	2.33E-02	7.26E-03	3.72E-04	3.65E-04	1.89E-02	5.44E-02
3.88E-03	2.15E-02	7.24E-03	3.69E-04	1.82E-02	1.82E-02	6.95E-02	3.88E-03	2.15E-02	7.24E-03	3.69E-04	3.66E-04	1.82E-02	5.16E-02
3.63E-03	2.02E-02	7.20E-03	3.66E-04	1.77E-02	1.77E-02	6.69E-02	3.63E-03	2.02E-02	7.20E-03	3.66E-04	3.66E-04	1.77E-02	4.95E-02

8.53E-03	4.55E-02	6.94E-03	3.62E-04	2.23E-02	2.23E-02	1.06E-01	8.53E-03	4.55E-02	6.94E-03	3.62E-04	3.64E-04	2.23E-02	8.40E-02
7.42E-03	4.03E-02	6.94E-03	3.60E-04	2.16E-02	2.16E-02	9.82E-02	7.42E-03	4.03E-02	6.94E-03	3.60E-04	3.62E-04	2.16E-02	7.70E-02
6.55E-03	3.61E-02	6.93E-03	3.57E-04	2.09E-02	2.09E-02	9.18E-02	6.55E-03	3.61E-02	6.93E-03	3.57E-04	3.59E-04	2.09E-02	7.12E-02
5.85E-03	3.26E-02	6.92E-03	3.55E-04	2.03E-02	2.03E-02	8.62E-02	5.85E-03	3.26E-02	6.92E-03	3.55E-04	3.58E-04	2.03E-02	6.63E-02
5.30E-03	2.98E-02	6.91E-03	3.53E-04	1.96E-02	1.96E-02	8.16E-02	5.30E-03	2.98E-02	6.91E-03	3.53E-04	3.57E-04	1.96E-02	6.23E-02
4.84E-03	2.74E-02	6.89E-03	3.50E-04	1.90E-02	1.90E-02	7.75E-02	4.84E-03	2.74E-02	6.89E-03	3.50E-04	3.56E-04	1.90E-02	5.88E-02
4.41E-03	2.50E-02	6.88E-03	3.47E-04	1.83E-02	1.83E-02	7.33E-02	4.41E-03	2.50E-02	6.88E-03	3.47E-04	3.56E-04	1.83E-02	5.53E-02
4.10E-03	2.33E-02	6.86E-03	3.45E-04	1.79E-02	1.79E-02	7.03E-02	4.10E-03	2.33E-02	6.86E-03	3.45E-04	3.55E-04	1.79E-02	5.28E-02
9.77E-03	5.22E-02	6.54E-03	3.36E-04	2.17E-02	2.17E-02	1.12E-01	9.77E-03	5.22E-02	6.54E-03	3.36E-04	3.54E-04	2.17E-02	9.09E-02
8.33E-03	4.54E-02	6.55E-03	3.34E-04	2.11E-02	2.11E-02	1.03E-01	8.33E-03	4.54E-02	6.55E-03	3.34E-04	3.52E-04	2.11E-02	8.20E-02
7.23E-03	4.02E-02	6.55E-03	3.33E-04	2.04E-02	2.04E-02	9.50E-02	7.23E-03	4.02E-02	6.55E-03	3.33E-04	3.50E-04	2.04E-02	7.50E-02
6.41E-03	3.61E-02	6.55E-03	3.31E-04	1.97E-02	1.97E-02	8.88E-02	6.41E-03	3.61E-02	6.55E-03	3.31E-04	3.48E-04	1.97E-02	6.94E-02
5.74E-03	3.26E-02	6.54E-03	3.30E-04	1.91E-02	1.91E-02	8.35E-02	5.74E-03	3.26E-02	6.54E-03	3.30E-04	3.47E-04	1.91E-02	6.47E-02
5.14E-03	2.93E-02	6.55E-03	3.27E-04	1.84E-02	1.84E-02	7.81E-02	5.14E-03	2.93E-02	6.55E-03	3.27E-04	3.47E-04	1.84E-02	6.00E-02
4.75E-03	2.73E-02	6.53E-03	3.26E-04	1.80E-02	1.80E-02	7.49E-02	4.75E-03	2.73E-02	6.53E-03	3.26E-04	3.45E-04	1.80E-02	5.72E-02
8.09E-03	4.61E-02	4.86E-03	2.32E-04	1.50E-02	1.50E-02	8.92E-02	8.09E-03	4.61E-02	4.86E-03	2.32E-04	2.88E-04	1.50E-02	7.46E-02
7.16E-03	4.12E-02	4.87E-03	2.32E-04	1.46E-02	1.46E-02	8.27E-02	7.16E-03	4.12E-02	4.87E-03	2.32E-04	2.88E-04	1.46E-02	6.84E-02
6.37E-03	3.66E-02	4.88E-03	2.32E-04	1.42E-02	1.42E-02	7.66E-02	6.37E-03	3.66E-02	4.88E-03	2.32E-04	2.88E-04	1.42E-02	6.26E-02
5.73E-03	3.29E-02	4.89E-03	2.32E-04	1.39E-02	1.39E-02	7.16E-02	5.73E-03	3.29E-02	4.89E-03	2.32E-04	2.89E-04	1.39E-02	5.80E-02
5.19E-03	2.98E-02	4.89E-03	2.32E-04	1.35E-02	1.35E-02	6.72E-02	5.19E-03	2.98E-02	4.89E-03	2.32E-04	2.89E-04	1.35E-02	5.39E-02
4.73E-03	2.71E-02	4.89E-03	2.32E-04	1.32E-02	1.32E-02	6.33E-02	4.73E-03	2.71E-02	4.89E-03	2.32E-04	2.90E-04	1.32E-02	5.04E-02
4.31E-03	2.46E-02	4.89E-03	2.31E-04	1.28E-02	1.28E-02	5.96E-02	4.31E-03	2.46E-02	4.89E-03	2.31E-04	2.91E-04	1.28E-02	4.71E-02
3.99E-03	2.27E-02	4.88E-03	2.31E-04	1.24E-02	1.24E-02	5.66E-02	3.99E-03	2.27E-02	4.88E-03	2.31E-04	2.92E-04	1.24E-02	4.45E-02
3.69E-03	2.09E-02	4.87E-03	2.30E-04	1.21E-02	1.21E-02	5.38E-02	3.69E-03	2.09E-02	4.87E-03	2.30E-04	2.93E-04	1.21E-02	4.20E-02
1.17E-02	6.44E-02	4.64E-03	2.22E-04	1.50E-02	1.50E-02	1.11E-01	1.17E-02	6.44E-02	4.64E-03	2.22E-04	2.81E-04	1.50E-02	9.63E-02
9.97E-03	5.59E-02	4.66E-03	2.22E-04	1.46E-02	1.46E-02	1.00E-01	9.97E-03	5.59E-02	4.66E-03	2.22E-04	2.81E-04	1.46E-02	8.57E-02
8.64E-03	4.90E-02	4.67E-03	2.22E-04	1.43E-02	1.43E-02	9.12E-02	8.64E-03	4.90E-02	4.67E-03	2.22E-04	2.81E-04	1.43E-02	7.72E-02
7.50E-03	4.28E-02	4.69E-03	2.23E-04	1.40E-02	1.40E-02	8.32E-02	7.50E-03	4.28E-02	4.69E-03	2.23E-04	2.81E-04	1.40E-02	6.95E-02
6.58E-03	3.73E-02	4.70E-03	2.23E-04	1.36E-02	1.36E-02	7.60E-02	6.58E-03	3.73E-02	4.70E-03	2.23E-04	2.81E-04	1.36E-02	6.27E-02
5.88E-03	3.34E-02	4.70E-03	2.23E-04	1.32E-02	1.32E-02	7.06E-02	5.88E-03	3.34E-02	4.70E-03	2.23E-04	2.82E-04	1.32E-02	5.77E-02
5.28E-03	2.99E-02	4.71E-03	2.23E-04	1.29E-02	1.29E-02	6.58E-02	5.28E-03	2.99E-02	4.71E-03	2.23E-04	2.83E-04	1.29E-02	5.32E-02
4.82E-03	2.74E-02	4.70E-03	2.22E-04	1.26E-02	1.26E-02	6.23E-02	4.82E-03	2.74E-02	4.70E-03	2.22E-04	2.83E-04	1.26E-02	5.00E-02
4.44E-03	2.53E-02	4.70E-03	2.22E-04	1.23E-02	1.23E-02	5.91E-02	4.44E-03	2.53E-02	4.70E-03	2.22E-04	2.84E-04	1.23E-02	4.72E-02
1.07E-02	5.96E-02	4.49E-03	2.13E-04	1.40E-02	1.40E-02	1.03E-01	1.07E-02	5.96E-02	4.49E-03	2.13E-04	2.74E-04	1.40E-02	8.92E-02
8.95E-03	5.00E-02	4.51E-03	2.14E-04	1.36E-02	1.36E-02	9.09E-02	8.95E-03	5.00E-02	4.51E-03	2.14E-04	2.74E-04	1.36E-02	7.75E-02
7.73E-03	4.31E-02	4.52E-03	2.14E-04	1.33E-02	1.33E-02	8.21E-02	7.73E-03	4.31E-02	4.52E-03	2.14E-04	2.74E-04	1.33E-02	6.91E-02
6.76E-03	3.77E-02	4.53E-03	2.14E-04	1.29E-02	1.29E-02	7.50E-02	6.76E-03	3.77E-02	4.53E-03	2.14E-04	2.75E-04	1.29E-02	6.24E-02
6.02E-03	3.37E-02	4.53E-03	2.14E-04	1.26E-02	1.26E-02	6.97E-02	6.02E-03	3.37E-02	4.53E-03	2.14E-04	2.75E-04	1.26E-02	5.74E-02
5.51E-03	3.13E-02	4.53E-03	2.14E-04	1.24E-02	1.24E-02	6.63E-02	5.51E-03	3.13E-02	4.53E-03	2.14E-04	2.75E-04	1.24E-02	5.42E-02
1.12E-02	6.24E-02	4.34E-03	2.05E-04	1.33E-02	1.33E-02	1.05E-01	1.12E-02	6.24E-02	4.34E-03	2.05E-04	2.67E-04	1.33E-02	9.18E-02
9.54E-03	5.32E-02	4.35E-03	2.06E-04	1.31E-02	1.31E-02	9.34E-02	9.54E-03	5.32E-02	4.35E-03	2.06E-04	2.67E-04	1.31E-02	8.07E-02
8.22E-03	4.60E-02	4.36E-03	2.06E-04	1.28E-02	1.28E-02	8.43E-02	8.22E-03	4.60E-02	4.36E-03	2.06E-04	2.67E-04	1.28E-02	7.18E-02
7.24E-03	4.09E-02	4.36E-03	2.06E-04	1.25E-02	1.25E-02	7.77E-02	7.24E-03	4.09E-02	4.36E-03	2.06E-04	2.67E-04	1.25E-02	6.55E-02
9.34E-03	5.25E-02	4.32E-03	2.04E-04	1.29E-02	1.29E-02	9.21E-02	9.34E-03	5.25E-02	4.32E-03	2.04E-04	2.66E-04	1.29E-02	7.95E-02
8.08E-03	4.53E-02	4.33E-03	2.04E-04	1.26E-02	1.26E-02	8.31E-02	8.08E-03	4.53E-02	4.33E-03	2.04E-04	2.66E-04	1.26E-02	7.08E-02
1.50E-02	8.22E-02	4.15E-03	1.96E-04	1.29E-02	1.29E-02	1.27E-01	1.50E-02	8.22E-02	4.15E-03	1.96E-04	2.59E-04	1.29E-02	1.15E-01
1.21E-02	6.76E-02	4.16E-03	1.96E-04	1.27E-02	1.27E-02	1.09E-01	1.21E-02	6.76E-02	4.16E-03	1.96E-04	2.59E-04	1.27E-02	9.70E-02
3.88E-04	1.02E-03	4.32E-03	2.94E-04	1.96E-03	1.96E-03	9.93E-03	3.88E-04	1.02E-03	4.32E-03	2.94E-04	5.95E-04	1.96E-03	8.57E-03
7.75E-04	1.27E-03	8.61E-03	8.28E-04	2.27E-03	2.27E-03	1.60E-02	7.75E-04	1.27E-03	8.61E-03	8.28E-04	8.42E-04	2.27E-03	1.46E-02
3.24E-05	8.13E-05	1.44E-04	7.90E-06	1.24E-04	1.24E-04	5.15E-04	3.24E-05	8.13E-05	1.44E-04	7.90E-06	1.25E-05	1.24E-04	4.03E-04
7.13E-05	2.09E-04	4.34E-04	2.46E-05	3.67E-04	3.67E-04	1.47E-03	7.13E-05	2.09E-04	4.34E-04	2.46E-05	3.99E-05	3.67E-04	1.15E-03
3.12E-03	1.29E-03	1.58E-03	7.58E-05	2.35E-03	2.35E-03	1.08E-02	3.12E-03	1.29E-03	1.58E-03	7.58E-05	1.30E-04	2.35E-03	8.54E-03
5.87E-05	4.63E-05	4.45E-05	2.59E-06	4.24E-05	4.24E-05	2.37E-04	5.87E-05	4.63E-05	4.45E-05	2.59E-06	4.60E-06	4.24E-05	1.99E-04
1.09E-03	7.20E-04	1.12E-03	5.29E-05	1.49E-03	1.49E-03	5.96E-03	1.09E-03	7.20E-04	1.12E-03	5.29E-05	8.97E-05	1.49E-03	4.56E-03

1.19E-03	5.47E-03	2.87E-03	1.41E-04	5.13E-03	5.13E-03	1.99E-02	1.19E-03	5.47E-03	2.87E-03	1.41E-04	2.29E-04	5.13E-03	1.50E-02
1.17E-03	5.33E-03	2.86E-03	1.41E-04	5.07E-03	5.07E-03	1.97E-02	1.17E-03	5.33E-03	2.86E-03	1.41E-04	2.29E-04	5.07E-03	1.48E-02
1.15E-03	5.19E-03	2.85E-03	1.40E-04	5.02E-03	5.02E-03	1.94E-02	1.15E-03	5.19E-03	2.85E-03	1.40E-04	2.29E-04	5.02E-03	1.46E-02
1.13E-03	5.06E-03	2.85E-03	1.40E-04	4.97E-03	4.97E-03	1.91E-02	1.13E-03	5.06E-03	2.85E-03	1.40E-04	2.28E-04	4.97E-03	1.44E-02
1.11E-03	4.94E-03	2.83E-03	1.40E-04	4.92E-03	4.92E-03	1.89E-02	1.11E-03	4.94E-03	2.83E-03	1.40E-04	2.28E-04	4.92E-03	1.42E-02
1.10E-03	4.83E-03	2.82E-03	1.39E-04	4.88E-03	4.88E-03	1.87E-02	1.10E-03	4.83E-03	2.82E-03	1.39E-04	2.28E-04	4.88E-03	1.40E-02
1.07E-03	4.69E-03	2.82E-03	1.39E-04	4.82E-03	4.82E-03	1.83E-02	1.07E-03	4.69E-03	2.82E-03	1.39E-04	2.28E-04	4.82E-03	1.38E-02
1.05E-03	4.56E-03	2.81E-03	1.39E-04	4.76E-03	4.76E-03	1.81E-02	1.05E-03	4.56E-03	2.81E-03	1.39E-04	2.28E-04	4.76E-03	1.35E-02
1.23E-03	5.40E-03	2.82E-03	1.38E-04	5.05E-03	5.05E-03	1.97E-02	1.23E-03	5.40E-03	2.82E-03	1.38E-04	2.24E-04	5.05E-03	1.49E-02
1.21E-03	5.26E-03	2.81E-03	1.37E-04	5.01E-03	5.01E-03	1.94E-02	1.21E-03	5.26E-03	2.81E-03	1.37E-04	2.24E-04	5.01E-03	1.46E-02
1.19E-03	5.13E-03	2.80E-03	1.37E-04	4.96E-03	4.96E-03	1.92E-02	1.19E-03	5.13E-03	2.80E-03	1.37E-04	2.24E-04	4.96E-03	1.44E-02
1.17E-03	5.01E-03	2.79E-03	1.37E-04	4.92E-03	4.92E-03	1.89E-02	1.17E-03	5.01E-03	2.79E-03	1.37E-04	2.23E-04	4.92E-03	1.42E-02
1.15E-03	4.88E-03	2.78E-03	1.37E-04	4.87E-03	4.87E-03	1.87E-02	1.15E-03	4.88E-03	2.78E-03	1.37E-04	2.23E-04	4.87E-03	1.40E-02
1.12E-03	4.76E-03	2.77E-03	1.37E-04	4.81E-03	4.81E-03	1.84E-02	1.12E-03	4.76E-03	2.77E-03	1.37E-04	2.23E-04	4.81E-03	1.38E-02
1.10E-03	4.63E-03	2.77E-03	1.36E-04	4.76E-03	4.76E-03	1.81E-02	1.10E-03	4.63E-03	2.77E-03	1.36E-04	2.24E-04	4.76E-03	1.36E-02
1.08E-03	4.53E-03	2.76E-03	1.36E-04	4.71E-03	4.71E-03	1.79E-02	1.08E-03	4.53E-03	2.76E-03	1.36E-04	2.23E-04	4.71E-03	1.34E-02
1.28E-03	5.30E-03	2.76E-03	1.34E-04	4.98E-03	4.98E-03	1.94E-02	1.28E-03	5.30E-03	2.76E-03	1.34E-04	2.18E-04	4.98E-03	1.47E-02
1.26E-03	5.17E-03	2.75E-03	1.34E-04	4.94E-03	4.94E-03	1.92E-02	1.26E-03	5.17E-03	2.75E-03	1.34E-04	2.18E-04	4.94E-03	1.45E-02
1.22E-03	5.03E-03	2.75E-03	1.34E-04	4.89E-03	4.89E-03	1.89E-02	1.22E-03	5.03E-03	2.75E-03	1.34E-04	2.19E-04	4.89E-03	1.42E-02
1.21E-03	4.91E-03	2.73E-03	1.34E-04	4.85E-03	4.85E-03	1.87E-02	1.21E-03	4.91E-03	2.73E-03	1.34E-04	2.19E-04	4.85E-03	1.41E-02
1.19E-03	4.80E-03	2.73E-03	1.33E-04	4.80E-03	4.80E-03	1.85E-02	1.19E-03	4.80E-03	2.73E-03	1.33E-04	2.19E-04	4.80E-03	1.39E-02
1.16E-03	4.67E-03	2.72E-03	1.33E-04	4.75E-03	4.75E-03	1.82E-02	1.16E-03	4.67E-03	2.72E-03	1.33E-04	2.19E-04	4.75E-03	1.37E-02
1.13E-03	4.55E-03	2.72E-03	1.34E-04	4.70E-03	4.70E-03	1.79E-02	1.13E-03	4.55E-03	2.72E-03	1.34E-04	2.19E-04	4.70E-03	1.34E-02
1.12E-03	4.46E-03	2.71E-03	1.33E-04	4.66E-03	4.66E-03	1.77E-02	1.12E-03	4.46E-03	2.71E-03	1.33E-04	2.19E-04	4.66E-03	1.33E-02
1.32E-03	5.18E-03	2.70E-03	1.31E-04	4.90E-03	4.90E-03	1.91E-02	1.32E-03	5.18E-03	2.70E-03	1.31E-04	2.13E-04	4.90E-03	1.44E-02
1.30E-03	5.06E-03	2.69E-03	1.31E-04	4.86E-03	4.86E-03	1.89E-02	1.30E-03	5.06E-03	2.69E-03	1.31E-04	2.13E-04	4.86E-03	1.43E-02
1.28E-03	4.93E-03	2.69E-03	1.31E-04	4.82E-03	4.82E-03	1.87E-02	1.28E-03	4.93E-03	2.69E-03	1.31E-04	2.13E-04	4.82E-03	1.41E-02
1.25E-03	4.81E-03	2.68E-03	1.31E-04	4.77E-03	4.77E-03	1.84E-02	1.25E-03	4.81E-03	2.68E-03	1.31E-04	2.14E-04	4.77E-03	1.39E-02
1.23E-03	4.69E-03	2.67E-03	1.31E-04	4.73E-03	4.73E-03	1.82E-02	1.23E-03	4.69E-03	2.67E-03	1.31E-04	2.14E-04	4.73E-03	1.37E-02
1.19E-03	4.57E-03	2.67E-03	1.31E-04	4.68E-03	4.68E-03	1.79E-02	1.19E-03	4.57E-03	2.67E-03	1.31E-04	2.15E-04	4.68E-03	1.35E-02
1.17E-03	4.46E-03	2.66E-03	1.30E-04	4.64E-03	4.64E-03	1.77E-02	1.17E-03	4.46E-03	2.66E-03	1.30E-04	2.15E-04	4.64E-03	1.33E-02
1.16E-03	4.37E-03	2.65E-03	1.30E-04	4.60E-03	4.60E-03	1.75E-02	1.16E-03	4.37E-03	2.65E-03	1.30E-04	2.14E-04	4.60E-03	1.31E-02
1.37E-03	5.03E-03	2.65E-03	1.28E-04	4.82E-03	4.82E-03	1.88E-02	1.37E-03	5.03E-03	2.65E-03	1.28E-04	2.08E-04	4.82E-03	1.42E-02
1.35E-03	4.91E-03	2.64E-03	1.28E-04	4.78E-03	4.78E-03	1.86E-02	1.35E-03	4.91E-03	2.64E-03	1.28E-04	2.08E-04	4.78E-03	1.40E-02
1.32E-03	4.80E-03	2.63E-03	1.28E-04	4.74E-03	4.74E-03	1.84E-02	1.32E-03	4.80E-03	2.63E-03	1.28E-04	2.08E-04	4.74E-03	1.38E-02
1.30E-03	4.68E-03	2.63E-03	1.28E-04	4.70E-03	4.70E-03	1.81E-02	1.30E-03	4.68E-03	2.63E-03	1.28E-04	2.08E-04	4.70E-03	1.36E-02
1.27E-03	4.57E-03	2.62E-03	1.28E-04	4.65E-03	4.65E-03	1.79E-02	1.27E-03	4.57E-03	2.62E-03	1.28E-04	2.09E-04	4.65E-03	1.35E-02
1.24E-03	4.46E-03	2.62E-03	1.28E-04	4.61E-03	4.61E-03	1.77E-02	1.24E-03	4.46E-03	2.62E-03	1.28E-04	2.10E-04	4.61E-03	1.33E-02
1.22E-03	4.36E-03	2.61E-03	1.27E-04	4.57E-03	4.57E-03	1.75E-02	1.22E-03	4.36E-03	2.61E-03	1.27E-04	2.10E-04	4.57E-03	1.31E-02
1.20E-03	4.27E-03	2.60E-03	1.27E-04	4.53E-03	4.53E-03	1.73E-02	1.20E-03	4.27E-03	2.60E-03	1.27E-04	2.10E-04	4.53E-03	1.29E-02
1.45E-03	4.99E-03	2.60E-03	1.25E-04	4.78E-03	4.78E-03	1.87E-02	1.45E-03	4.99E-03	2.60E-03	1.25E-04	2.02E-04	4.78E-03	1.41E-02
1.43E-03	4.87E-03	2.59E-03	1.25E-04	4.74E-03	4.74E-03	1.85E-02	1.43E-03	4.87E-03	2.59E-03	1.25E-04	2.02E-04	4.74E-03	1.40E-02
1.40E-03	4.75E-03	2.59E-03	1.25E-04	4.70E-03	4.70E-03	1.83E-02	1.40E-03	4.75E-03	2.59E-03	1.25E-04	2.02E-04	4.70E-03	1.38E-02
1.38E-03	4.64E-03	2.58E-03	1.25E-04	4.66E-03	4.66E-03	1.80E-02	1.38E-03	4.64E-03	2.58E-03	1.25E-04	2.03E-04	4.66E-03	1.36E-02
1.34E-03	4.54E-03	2.58E-03	1.25E-04	4.62E-03	4.62E-03	1.78E-02	1.34E-03	4.54E-03	2.58E-03	1.25E-04	2.03E-04	4.62E-03	1.34E-02
1.32E-03	4.44E-03	2.57E-03	1.25E-04	4.58E-03	4.58E-03	1.76E-02	1.32E-03	4.44E-03	2.57E-03	1.25E-04	2.04E-04	4.58E-03	1.32E-02
1.30E-03	4.34E-03	2.56E-03	1.25E-04	4.54E-03	4.54E-03	1.74E-02	1.30E-03	4.34E-03	2.56E-03	1.25E-04	2.04E-04	4.54E-03	1.31E-02
1.27E-03	4.25E-03	2.56E-03	1.25E-04	4.50E-03	4.50E-03	1.72E-02	1.27E-03	4.25E-03	2.56E-03	1.25E-04	2.05E-04	4.50E-03	1.29E-02
1.25E-03	4.16E-03	2.55E-03	1.24E-04	4.46E-03	4.46E-03	1.70E-02	1.25E-03	4.16E-03	2.55E-03	1.24E-04	2.05E-04	4.46E-03	1.27E-02
1.51E-03	4.80E-03	2.55E-03	1.22E-04	4.69E-03	4.69E-03	1.84E-02	1.51E-03	4.80E-03	2.55E-03	1.22E-04	1.96E-04	4.69E-03	1.39E-02
1.47E-03	4.57E-03	2.53E-03	1.21E-04	4.61E-03	4.61E-03	1.79E-02	1.47E-03	4.57E-03	2.53E-03	1.21E-04	1.96E-04	4.61E-03	1.35E-02
1.43E-03	4.48E-03	2.53E-03	1.22E-04	4.57E-03	4.57E-03	1.77E-02	1.43E-03	4.48E-03	2.53E-03	1.22E-04	1.97E-04	4.57E-03	1.33E-02
1.40E-03	4.38E-03	2.52E-03	1.22E-04	4.54E-03	4.54E-03	1.75E-02	1.40E-03	4.38E-03	2.52E-03	1.22E-04	1.98E-04	4.54E-03	1.32E-02
1.37E-03	4.29E-03	2.52E-03	1.22E-04	4.50E-03	4.50E-03	1.73E-02	1.37E-03	4.29E-03	2.52E-03	1.22E-04	1.99E-04	4.50E-03	1.30E-02

1.34E-03	4.20E-03	2.52E-03	1.22E-04	4.46E-03	4.46E-03	1.71E-02	1.34E-03	4.20E-03	2.52E-03	1.22E-04	1.99E-04	4.46E-03	1.28E-02
1.32E-03	4.12E-03	2.51E-03	1.22E-04	4.42E-03	4.42E-03	1.69E-02	1.32E-03	4.12E-03	2.51E-03	1.22E-04	2.00E-04	4.42E-03	1.27E-02
1.30E-03	4.03E-03	2.50E-03	1.22E-04	4.39E-03	4.39E-03	1.67E-02	1.30E-03	4.03E-03	2.50E-03	1.22E-04	2.00E-04	4.39E-03	1.25E-02
1.57E-03	4.60E-03	2.50E-03	1.19E-04	4.61E-03	4.61E-03	1.80E-02	1.57E-03	4.60E-03	2.50E-03	1.19E-04	1.90E-04	4.61E-03	1.36E-02
1.53E-03	4.38E-03	2.48E-03	1.18E-04	4.53E-03	4.53E-03	1.76E-02	1.53E-03	4.38E-03	2.48E-03	1.18E-04	1.91E-04	4.53E-03	1.32E-02
1.49E-03	4.29E-03	2.48E-03	1.19E-04	4.49E-03	4.49E-03	1.74E-02	1.49E-03	4.29E-03	2.48E-03	1.19E-04	1.92E-04	4.49E-03	1.31E-02
1.46E-03	4.21E-03	2.47E-03	1.19E-04	4.45E-03	4.45E-03	1.72E-02	1.46E-03	4.21E-03	2.47E-03	1.19E-04	1.93E-04	4.45E-03	1.29E-02
1.43E-03	4.13E-03	2.47E-03	1.19E-04	4.42E-03	4.42E-03	1.70E-02	1.43E-03	4.13E-03	2.47E-03	1.19E-04	1.94E-04	4.42E-03	1.28E-02
1.40E-03	4.05E-03	2.47E-03	1.19E-04	4.38E-03	4.38E-03	1.68E-02	1.40E-03	4.05E-03	2.47E-03	1.19E-04	1.94E-04	4.38E-03	1.26E-02
1.37E-03	3.97E-03	2.46E-03	1.19E-04	4.35E-03	4.35E-03	1.66E-02	1.37E-03	3.97E-03	2.46E-03	1.19E-04	1.95E-04	4.35E-03	1.25E-02
1.34E-03	3.90E-03	2.46E-03	1.19E-04	4.31E-03	4.31E-03	1.64E-02	1.34E-03	3.90E-03	2.46E-03	1.19E-04	1.96E-04	4.31E-03	1.23E-02
3.74E-04	1.01E-03	2.80E-03	1.60E-04	2.76E-03	2.76E-03	9.85E-03	3.74E-04	1.01E-03	2.80E-03	1.60E-04	2.68E-04	2.76E-03	7.36E-03
3.70E-04	9.95E-04	2.75E-03	1.57E-04	2.71E-03	2.71E-03	9.70E-03	3.70E-04	9.95E-04	2.75E-03	1.57E-04	2.63E-04	2.71E-03	7.25E-03
3.68E-04	9.88E-04	2.71E-03	1.55E-04	2.68E-03	2.68E-03	9.59E-03	3.68E-04	9.88E-04	2.71E-03	1.55E-04	2.60E-04	2.68E-03	7.17E-03
3.66E-04	9.86E-04	2.70E-03	1.54E-04	2.67E-03	2.67E-03	9.53E-03	3.66E-04	9.86E-04	2.70E-03	1.54E-04	2.59E-04	2.67E-03	7.13E-03
3.63E-04	9.78E-04	2.66E-03	1.52E-04	2.63E-03	2.63E-03	9.42E-03	3.63E-04	9.78E-04	2.66E-03	1.52E-04	2.56E-04	2.63E-03	7.04E-03
3.62E-04	9.75E-04	2.64E-03	1.51E-04	2.61E-03	2.61E-03	9.36E-03	3.62E-04	9.75E-04	2.64E-03	1.51E-04	2.55E-04	2.61E-03	7.00E-03
3.59E-04	9.66E-04	2.60E-03	1.49E-04	2.58E-03	2.58E-03	9.24E-03	3.59E-04	9.66E-04	2.60E-03	1.49E-04	2.51E-04	2.58E-03	6.91E-03
3.56E-04	9.59E-04	2.57E-03	1.47E-04	2.55E-03	2.55E-03	9.14E-03	3.56E-04	9.59E-04	2.57E-03	1.47E-04	2.48E-04	2.55E-03	6.84E-03
3.53E-04	9.47E-04	2.53E-03	1.44E-04	2.51E-03	2.51E-03	8.99E-03	3.53E-04	9.47E-04	2.53E-03	1.44E-04	2.44E-04	2.51E-03	6.73E-03
3.51E-04	9.42E-04	2.50E-03	1.43E-04	2.49E-03	2.49E-03	8.91E-03	3.51E-04	9.42E-04	2.50E-03	1.43E-04	2.42E-04	2.49E-03	6.67E-03
3.49E-04	9.33E-04	2.47E-03	1.41E-04	2.46E-03	2.46E-03	8.80E-03	3.49E-04	9.33E-04	2.47E-03	1.41E-04	2.39E-04	2.46E-03	6.58E-03
3.47E-04	9.25E-04	2.44E-03	1.39E-04	2.43E-03	2.43E-03	8.70E-03	3.47E-04	9.25E-04	2.44E-03	1.39E-04	2.36E-04	2.43E-03	6.51E-03
3.44E-04	9.17E-04	2.41E-03	1.37E-04	2.40E-03	2.40E-03	8.61E-03	3.44E-04	9.17E-04	2.41E-03	1.37E-04	2.33E-04	2.40E-03	6.44E-03
3.42E-04	9.08E-04	2.37E-03	1.35E-04	2.37E-03	2.37E-03	8.50E-03	3.42E-04	9.08E-04	2.37E-03	1.35E-04	2.31E-04	2.37E-03	6.36E-03
3.39E-04	8.97E-04	2.33E-03	1.33E-04	2.33E-03	2.33E-03	8.37E-03	3.39E-04	8.97E-04	2.33E-03	1.33E-04	2.27E-04	2.33E-03	6.26E-03
3.36E-04	8.88E-04	2.30E-03	1.31E-04	2.31E-03	2.31E-03	8.27E-03	3.36E-04	8.88E-04	2.30E-03	1.31E-04	2.24E-04	2.31E-03	6.19E-03
3.32E-04	8.70E-04	2.24E-03	1.28E-04	2.26E-03	2.26E-03	8.09E-03	3.32E-04	8.70E-04	2.24E-03	1.28E-04	2.18E-04	2.26E-03	6.05E-03
3.31E-04	8.68E-04	2.23E-03	1.27E-04	2.24E-03	2.24E-03	8.04E-03	3.31E-04	8.68E-04	2.23E-03	1.27E-04	2.17E-04	2.24E-03	6.02E-03
3.28E-04	8.52E-04	2.18E-03	1.24E-04	2.20E-03	2.20E-03	7.88E-03	3.28E-04	8.52E-04	2.18E-03	1.24E-04	2.12E-04	2.20E-03	5.90E-03
3.25E-04	8.44E-04	2.15E-03	1.22E-04	2.17E-03	2.17E-03	7.79E-03	3.25E-04	8.44E-04	2.15E-03	1.22E-04	2.10E-04	2.17E-03	5.83E-03
3.23E-04	8.35E-04	2.13E-03	1.21E-04	2.15E-03	2.15E-03	7.70E-03	3.23E-04	8.35E-04	2.13E-03	1.21E-04	2.07E-04	2.15E-03	5.76E-03
3.22E-04	8.29E-04	2.10E-03	1.19E-04	2.13E-03	2.13E-03	7.63E-03	3.22E-04	8.29E-04	2.10E-03	1.19E-04	2.06E-04	2.13E-03	5.71E-03
3.21E-04	8.25E-04	2.09E-03	1.19E-04	2.12E-03	2.12E-03	7.59E-03	3.21E-04	8.25E-04	2.09E-03	1.19E-04	2.05E-04	2.12E-03	5.68E-03
3.20E-04	8.23E-04	2.09E-03	1.18E-04	2.11E-03	2.11E-03	7.56E-03	3.20E-04	8.23E-04	2.09E-03	1.18E-04	2.04E-04	2.11E-03	5.66E-03
3.19E-04	8.20E-04	2.07E-03	1.18E-04	2.09E-03	2.09E-03	7.52E-03	3.19E-04	8.20E-04	2.07E-03	1.18E-04	2.04E-04	2.09E-03	5.63E-03
3.17E-04	8.09E-04	2.05E-03	1.16E-04	2.07E-03	2.07E-03	7.43E-03	3.17E-04	8.09E-04	2.05E-03	1.16E-04	2.02E-04	2.07E-03	5.56E-03
3.15E-04	8.06E-04	2.04E-03	1.16E-04	2.06E-03	2.06E-03	7.40E-03	3.15E-04	8.06E-04	2.04E-03	1.16E-04	2.01E-04	2.06E-03	5.54E-03
3.16E-04	8.12E-04	2.05E-03	1.16E-04	2.06E-03	2.06E-03	7.42E-03	3.16E-04	8.12E-04	2.05E-03	1.16E-04	2.02E-04	2.06E-03	5.56E-03
3.83E-04	1.06E-03	2.85E-03	1.63E-04	2.84E-03	2.84E-03	1.01E-02	3.83E-04	1.06E-03	2.85E-03	1.63E-04	2.72E-04	2.84E-03	7.57E-03
3.80E-04	1.05E-03	2.81E-03	1.60E-04	2.80E-03	2.80E-03	1.00E-02	3.80E-04	1.05E-03	2.81E-03	1.60E-04	2.69E-04	2.80E-03	7.47E-03
3.77E-04	1.04E-03	2.78E-03	1.58E-04	2.77E-03	2.77E-03	9.89E-03	3.77E-04	1.04E-03	2.78E-03	1.58E-04	2.66E-04	2.77E-03	7.39E-03
3.74E-04	1.04E-03	2.75E-03	1.57E-04	2.74E-03	2.74E-03	9.79E-03	3.74E-04	1.04E-03	2.75E-03	1.57E-04	2.63E-04	2.74E-03	7.31E-03
3.72E-04	1.03E-03	2.73E-03	1.56E-04	2.72E-03	2.72E-03	9.72E-03	3.72E-04	1.03E-03	2.73E-03	1.56E-04	2.62E-04	2.72E-03	7.27E-03
3.69E-04	1.03E-03	2.69E-03	1.53E-04	2.68E-03	2.68E-03	9.60E-03	3.69E-04	1.03E-03	2.69E-03	1.53E-04	2.58E-04	2.68E-03	7.17E-03
3.67E-04	1.02E-03	2.66E-03	1.52E-04	2.65E-03	2.65E-03	9.50E-03	3.67E-04	1.02E-03	2.66E-03	1.52E-04	2.56E-04	2.65E-03	7.10E-03
3.64E-04	1.01E-03	2.63E-03	1.50E-04	2.62E-03	2.62E-03	9.40E-03	3.64E-04	1.01E-03	2.63E-03	1.50E-04	2.53E-04	2.62E-03	7.03E-03
3.62E-04	1.00E-03	2.59E-03	1.48E-04	2.59E-03	2.59E-03	9.27E-03	3.62E-04	1.00E-03	2.59E-03	1.48E-04	2.50E-04	2.59E-03	6.93E-03
3.59E-04	9.89E-04	2.55E-03	1.45E-04	2.55E-03	2.55E-03	9.14E-03	3.59E-04	9.89E-04	2.55E-03	1.45E-04	2.46E-04	2.55E-03	6.84E-03
3.56E-04	9.81E-04	2.52E-03	1.44E-04	2.52E-03	2.52E-03	9.03E-03	3.56E-04	9.81E-04	2.52E-03	1.44E-04	2.43E-04	2.52E-03	6.76E-03
3.53E-04	9.71E-04	2.48E-03	1.41E-04	2.49E-03	2.49E-03	8.91E-03	3.53E-04	9.71E-04	2.48E-03	1.41E-04	2.40E-04	2.49E-03	6.67E-03
3.50E-04	9.56E-04	2.43E-03	1.39E-04	2.44E-03	2.44E-03	8.77E-03	3.50E-04	9.56E-04	2.43E-03	1.39E-04	2.36E-04	2.44E-03	6.56E-03
3.47E-04	9.47E-04	2.40E-03	1.37E-04	2.41E-03	2.41E-03	8.65E-03	3.47E-04	9.47E-04	2.40E-03	1.37E-04	2.32E-04	2.41E-03	6.47E-03
3.44E-04	9.34E-04	2.35E-03	1.34E-04	2.37E-03	2.37E-03	8.51E-03	3.44E-04	9.34E-04	2.35E-03	1.34E-04	2.28E-04	2.37E-03	6.37E-03

3.42E-04	9.28E-04	2.33E-03	1.33E-04	2.35E-03	2.35E-03	8.44E-03	3.42E-04	9.28E-04	2.33E-03	1.33E-04	2.26E-04	2.35E-03	6.32E-03
3.39E-04	9.15E-04	2.29E-03	1.30E-04	2.32E-03	2.32E-03	8.31E-03	3.39E-04	9.15E-04	2.29E-03	1.30E-04	2.23E-04	2.32E-03	6.22E-03
3.36E-04	9.01E-04	2.25E-03	1.28E-04	2.27E-03	2.27E-03	8.16E-03	3.36E-04	9.01E-04	2.25E-03	1.28E-04	2.18E-04	2.27E-03	6.10E-03
3.33E-04	8.88E-04	2.20E-03	1.25E-04	2.24E-03	2.24E-03	8.02E-03	3.33E-04	8.88E-04	2.20E-03	1.25E-04	2.14E-04	2.24E-03	6.00E-03
3.31E-04	8.79E-04	2.18E-03	1.24E-04	2.21E-03	2.21E-03	7.93E-03	3.31E-04	8.79E-04	2.18E-03	1.24E-04	2.12E-04	2.21E-03	5.93E-03
3.29E-04	8.72E-04	2.16E-03	1.22E-04	2.19E-03	2.19E-03	7.86E-03	3.29E-04	8.72E-04	2.16E-03	1.22E-04	2.10E-04	2.19E-03	5.88E-03
3.27E-04	8.66E-04	2.14E-03	1.21E-04	2.17E-03	2.17E-03	7.79E-03	3.27E-04	8.66E-04	2.14E-03	1.21E-04	2.08E-04	2.17E-03	5.83E-03
3.26E-04	8.63E-04	2.13E-03	1.21E-04	2.16E-03	2.16E-03	7.76E-03	3.26E-04	8.63E-04	2.13E-03	1.21E-04	2.08E-04	2.16E-03	5.80E-03
3.25E-04	8.61E-04	2.12E-03	1.21E-04	2.15E-03	2.15E-03	7.73E-03	3.25E-04	8.61E-04	2.12E-03	1.21E-04	2.07E-04	2.15E-03	5.78E-03
3.24E-04	8.53E-04	2.10E-03	1.19E-04	2.13E-03	2.13E-03	7.65E-03	3.24E-04	8.53E-04	2.10E-03	1.19E-04	2.05E-04	2.13E-03	5.73E-03
3.23E-04	8.54E-04	2.10E-03	1.19E-04	2.13E-03	2.13E-03	7.65E-03	3.23E-04	8.54E-04	2.10E-03	1.19E-04	2.06E-04	2.13E-03	5.73E-03
3.21E-04	8.44E-04	2.07E-03	1.18E-04	2.10E-03	2.10E-03	7.56E-03	3.21E-04	8.44E-04	2.07E-03	1.18E-04	2.03E-04	2.10E-03	5.66E-03
3.21E-04	8.43E-04	2.07E-03	1.18E-04	2.10E-03	2.10E-03	7.54E-03	3.21E-04	8.43E-04	2.07E-03	1.18E-04	2.03E-04	2.10E-03	5.65E-03
3.90E-04	1.10E-03	2.86E-03	1.63E-04	2.88E-03	2.88E-03	1.03E-02	3.90E-04	1.10E-03	2.86E-03	1.63E-04	2.72E-04	2.88E-03	7.67E-03
3.87E-04	1.10E-03	2.83E-03	1.62E-04	2.85E-03	2.85E-03	1.02E-02	3.87E-04	1.10E-03	2.83E-03	1.62E-04	2.70E-04	2.85E-03	7.60E-03
3.84E-04	1.09E-03	2.80E-03	1.60E-04	2.82E-03	2.82E-03	1.01E-02	3.84E-04	1.09E-03	2.80E-03	1.60E-04	2.67E-04	2.82E-03	7.52E-03
3.82E-04	1.09E-03	2.78E-03	1.59E-04	2.80E-03	2.80E-03	1.00E-02	3.82E-04	1.09E-03	2.78E-03	1.59E-04	2.66E-04	2.80E-03	7.47E-03
3.79E-04	1.08E-03	2.74E-03	1.56E-04	2.76E-03	2.76E-03	9.86E-03	3.79E-04	1.08E-03	2.74E-03	1.56E-04	2.62E-04	2.76E-03	7.37E-03
3.78E-04	1.08E-03	2.74E-03	1.56E-04	2.75E-03	2.75E-03	9.86E-03	3.78E-04	1.08E-03	2.74E-03	1.56E-04	2.63E-04	2.75E-03	7.37E-03
3.75E-04	1.07E-03	2.70E-03	1.54E-04	2.72E-03	2.72E-03	9.74E-03	3.75E-04	1.07E-03	2.70E-03	1.54E-04	2.60E-04	2.72E-03	7.28E-03
3.72E-04	1.06E-03	2.68E-03	1.53E-04	2.69E-03	2.69E-03	9.66E-03	3.72E-04	1.06E-03	2.68E-03	1.53E-04	2.58E-04	2.69E-03	7.22E-03
3.69E-04	1.05E-03	2.64E-03	1.51E-04	2.66E-03	2.66E-03	9.52E-03	3.69E-04	1.05E-03	2.64E-03	1.51E-04	2.54E-04	2.66E-03	7.12E-03
3.66E-04	1.04E-03	2.59E-03	1.48E-04	2.61E-03	2.61E-03	9.37E-03	3.66E-04	1.04E-03	2.59E-03	1.48E-04	2.50E-04	2.61E-03	7.01E-03
3.63E-04	1.03E-03	2.55E-03	1.46E-04	2.57E-03	2.57E-03	9.23E-03	3.63E-04	1.03E-03	2.55E-03	1.46E-04	2.46E-04	2.57E-03	6.90E-03
3.60E-04	1.02E-03	2.52E-03	1.44E-04	2.54E-03	2.54E-03	9.13E-03	3.60E-04	1.02E-03	2.52E-03	1.44E-04	2.43E-04	2.54E-03	6.83E-03
3.56E-04	1.00E-03	2.46E-03	1.40E-04	2.49E-03	2.49E-03	8.94E-03	3.56E-04	1.00E-03	2.46E-03	1.40E-04	2.38E-04	2.49E-03	6.69E-03
3.54E-04	9.91E-04	2.43E-03	1.39E-04	2.46E-03	2.46E-03	8.84E-03	3.54E-04	9.91E-04	2.43E-03	1.39E-04	2.35E-04	2.46E-03	6.62E-03
3.51E-04	9.75E-04	2.38E-03	1.36E-04	2.42E-03	2.42E-03	8.68E-03	3.51E-04	9.75E-04	2.38E-03	1.36E-04	2.30E-04	2.42E-03	6.50E-03
3.48E-04	9.69E-04	2.36E-03	1.35E-04	2.40E-03	2.40E-03	8.61E-03	3.48E-04	9.69E-04	2.36E-03	1.35E-04	2.29E-04	2.40E-03	6.44E-03
3.44E-04	9.50E-04	2.30E-03	1.31E-04	2.35E-03	2.35E-03	8.42E-03	3.44E-04	9.50E-04	2.30E-03	1.31E-04	2.23E-04	2.35E-03	6.30E-03
3.41E-04	9.37E-04	2.27E-03	1.29E-04	2.31E-03	2.31E-03	8.29E-03	3.41E-04	9.37E-04	2.27E-03	1.29E-04	2.19E-04	2.31E-03	6.20E-03
3.38E-04	9.25E-04	2.23E-03	1.27E-04	2.28E-03	2.28E-03	8.17E-03	3.38E-04	9.25E-04	2.23E-03	1.27E-04	2.16E-04	2.28E-03	6.11E-03
3.36E-04	9.16E-04	2.20E-03	1.25E-04	2.25E-03	2.25E-03	8.08E-03	3.36E-04	9.16E-04	2.20E-03	1.25E-04	2.14E-04	2.25E-03	6.04E-03
3.35E-04	9.11E-04	2.19E-03	1.24E-04	2.23E-03	2.23E-03	8.02E-03	3.35E-04	9.11E-04	2.19E-03	1.24E-04	2.12E-04	2.23E-03	6.00E-03
3.33E-04	9.06E-04	2.17E-03	1.23E-04	2.22E-03	2.22E-03	7.97E-03	3.33E-04	9.06E-04	2.17E-03	1.23E-04	2.11E-04	2.22E-03	5.96E-03
3.32E-04	9.02E-04	2.16E-03	1.23E-04	2.20E-03	2.20E-03	7.93E-03	3.32E-04	9.02E-04	2.16E-03	1.23E-04	2.11E-04	2.20E-03	5.93E-03
3.31E-04	8.99E-04	2.15E-03	1.22E-04	2.19E-03	2.19E-03	7.89E-03	3.31E-04	8.99E-04	2.15E-03	1.22E-04	2.10E-04	2.19E-03	5.91E-03
3.30E-04	8.93E-04	2.14E-03	1.22E-04	2.18E-03	2.18E-03	7.84E-03	3.30E-04	8.93E-04	2.14E-03	1.22E-04	2.09E-04	2.18E-03	5.87E-03
3.30E-04	8.93E-04	2.14E-03	1.22E-04	2.17E-03	2.17E-03	7.83E-03	3.30E-04	8.93E-04	2.14E-03	1.22E-04	2.09E-04	2.17E-03	5.87E-03
3.27E-04	8.81E-04	2.11E-03	1.20E-04	2.16E-03	2.16E-03	7.75E-03	3.27E-04	8.81E-04	2.11E-03	1.20E-04	2.08E-04	2.16E-03	5.80E-03
3.27E-04	8.83E-04	2.11E-03	1.20E-04	2.14E-03	2.14E-03	7.73E-03	3.27E-04	8.83E-04	2.11E-03	1.20E-04	2.07E-04	2.14E-03	5.79E-03
3.92E-04	1.13E-03	2.81E-03	1.60E-04	2.88E-03	2.88E-03	1.02E-02	3.92E-04	1.13E-03	2.81E-03	1.60E-04	2.67E-04	2.88E-03	7.63E-03
3.92E-04	1.13E-03	2.82E-03	1.61E-04	2.89E-03	2.89E-03	1.03E-02	3.92E-04	1.13E-03	2.82E-03	1.61E-04	2.69E-04	2.89E-03	7.67E-03
3.93E-04	1.15E-03	2.84E-03	1.62E-04	2.89E-03	2.89E-03	1.03E-02	3.93E-04	1.15E-03	2.84E-03	1.62E-04	2.70E-04	2.89E-03	7.70E-03
3.91E-04	1.14E-03	2.83E-03	1.62E-04	2.88E-03	2.88E-03	1.03E-02	3.91E-04	1.14E-03	2.83E-03	1.62E-04	2.70E-04	2.88E-03	7.68E-03
3.89E-04	1.14E-03	2.81E-03	1.60E-04	2.85E-03	2.85E-03	1.02E-02	3.89E-04	1.14E-03	2.81E-03	1.60E-04	2.68E-04	2.85E-03	7.62E-03
3.87E-04	1.13E-03	2.79E-03	1.59E-04	2.83E-03	2.83E-03	1.01E-02	3.87E-04	1.13E-03	2.79E-03	1.59E-04	2.67E-04	2.83E-03	7.56E-03
3.85E-04	1.13E-03	2.76E-03	1.57E-04	2.80E-03	2.80E-03	1.00E-02	3.85E-04	1.13E-03	2.76E-03	1.57E-04	2.64E-04	2.80E-03	7.49E-03
3.82E-04	1.12E-03	2.73E-03	1.56E-04	2.77E-03	2.77E-03	9.93E-03	3.82E-04	1.12E-03	2.73E-03	1.56E-04	2.62E-04	2.77E-03	7.42E-03
3.78E-04	1.11E-03	2.69E-03	1.53E-04	2.73E-03	2.73E-03	9.77E-03	3.78E-04	1.11E-03	2.69E-03	1.53E-04	2.58E-04	2.73E-03	7.31E-03
3.74E-04	1.09E-03	2.64E-03	1.51E-04	2.68E-03	2.68E-03	9.62E-03	3.74E-04	1.09E-03	2.64E-03	1.51E-04	2.54E-04	2.68E-03	7.19E-03
3.71E-04	1.08E-03	2.60E-03	1.49E-04	2.65E-03	2.65E-03	9.50E-03	3.71E-04	1.08E-03	2.60E-03	1.49E-04	2.51E-04	2.65E-03	7.10E-03
3.68E-04	1.07E-03	2.56E-03	1.46E-04	2.60E-03	2.60E-03	9.35E-03	3.68E-04	1.07E-03	2.56E-03	1.46E-04	2.47E-04	2.60E-03	6.99E-03
3.64E-04	1.05E-03	2.51E-03	1.43E-04	2.56E-03	2.56E-03	9.18E-03	3.64E-04	1.05E-03	2.51E-03	1.43E-04	2.42E-04	2.56E-03	6.86E-03

3.61E-04	1.04E-03	2.47E-03	1.41E-04	2.52E-03	2.52E-03	9.04E-03	3.61E-04	1.04E-03	2.47E-03	1.41E-04	2.38E-04	2.52E-03	6.76E-03
3.57E-04	1.02E-03	2.42E-03	1.38E-04	2.47E-03	2.47E-03	8.88E-03	3.57E-04	1.02E-03	2.42E-03	1.38E-04	2.33E-04	2.47E-03	6.64E-03
3.54E-04	1.01E-03	2.39E-03	1.36E-04	2.44E-03	2.44E-03	8.77E-03	3.54E-04	1.01E-03	2.39E-03	1.36E-04	2.30E-04	2.44E-03	6.56E-03
3.50E-04	9.89E-04	2.33E-03	1.33E-04	2.39E-03	2.39E-03	8.57E-03	3.50E-04	9.89E-04	2.33E-03	1.33E-04	2.25E-04	2.39E-03	6.41E-03
3.47E-04	9.76E-04	2.29E-03	1.30E-04	2.35E-03	2.35E-03	8.44E-03	3.47E-04	9.76E-04	2.29E-03	1.30E-04	2.21E-04	2.35E-03	6.31E-03
3.44E-04	9.64E-04	2.25E-03	1.28E-04	2.32E-03	2.32E-03	8.33E-03	3.44E-04	9.64E-04	2.25E-03	1.28E-04	2.18E-04	2.32E-03	6.23E-03
3.42E-04	9.56E-04	2.23E-03	1.27E-04	2.29E-03	2.29E-03	8.24E-03	3.42E-04	9.56E-04	2.23E-03	1.27E-04	2.16E-04	2.29E-03	6.17E-03
3.41E-04	9.51E-04	2.22E-03	1.26E-04	2.28E-03	2.28E-03	8.20E-03	3.41E-04	9.51E-04	2.22E-03	1.26E-04	2.15E-04	2.28E-03	6.13E-03
3.39E-04	9.46E-04	2.20E-03	1.25E-04	2.26E-03	2.26E-03	8.14E-03	3.39E-04	9.46E-04	2.20E-03	1.25E-04	2.14E-04	2.26E-03	6.09E-03
3.38E-04	9.43E-04	2.20E-03	1.25E-04	2.25E-03	2.25E-03	8.11E-03	3.38E-04	9.43E-04	2.20E-03	1.25E-04	2.14E-04	2.25E-03	6.07E-03
3.37E-04	9.39E-04	2.18E-03	1.24E-04	2.24E-03	2.24E-03	8.07E-03	3.37E-04	9.39E-04	2.18E-03	1.24E-04	2.13E-04	2.24E-03	6.04E-03
3.36E-04	9.36E-04	2.18E-03	1.24E-04	2.23E-03	2.23E-03	8.04E-03	3.36E-04	9.36E-04	2.18E-03	1.24E-04	2.13E-04	2.23E-03	6.02E-03
3.35E-04	9.31E-04	2.17E-03	1.23E-04	2.22E-03	2.22E-03	7.99E-03	3.35E-04	9.31E-04	2.17E-03	1.23E-04	2.12E-04	2.22E-03	5.98E-03
3.34E-04	9.25E-04	2.15E-03	1.23E-04	2.20E-03	2.20E-03	7.94E-03	3.34E-04	9.25E-04	2.15E-03	1.23E-04	2.11E-04	2.20E-03	5.94E-03
3.32E-04	9.19E-04	2.13E-03	1.22E-04	2.18E-03	2.18E-03	7.87E-03	3.32E-04	9.19E-04	2.13E-03	1.22E-04	2.09E-04	2.18E-03	5.90E-03
3.91E-04	1.13E-03	2.68E-03	1.52E-04	2.79E-03	2.79E-03	9.93E-03	3.91E-04	1.13E-03	2.68E-03	1.52E-04	2.50E-04	2.79E-03	7.39E-03
3.97E-04	1.17E-03	2.80E-03	1.60E-04	2.90E-03	2.90E-03	1.03E-02	3.97E-04	1.17E-03	2.80E-03	1.60E-04	2.66E-04	2.90E-03	7.70E-03
4.03E-04	1.21E-03	2.90E-03	1.65E-04	2.97E-03	2.97E-03	1.06E-02	4.03E-04	1.21E-03	2.90E-03	1.65E-04	2.75E-04	2.97E-03	7.93E-03
4.01E-04	1.21E-03	2.89E-03	1.65E-04	2.96E-03	2.96E-03	1.06E-02	4.01E-04	1.21E-03	2.89E-03	1.65E-04	2.74E-04	2.96E-03	7.90E-03
3.97E-04	1.19E-03	2.85E-03	1.63E-04	2.92E-03	2.92E-03	1.04E-02	3.97E-04	1.19E-03	2.85E-03	1.63E-04	2.72E-04	2.92E-03	7.79E-03
3.97E-04	1.20E-03	2.85E-03	1.63E-04	2.91E-03	2.91E-03	1.04E-02	3.97E-04	1.20E-03	2.85E-03	1.63E-04	2.72E-04	2.91E-03	7.79E-03
3.94E-04	1.18E-03	2.81E-03	1.60E-04	2.88E-03	2.88E-03	1.03E-02	3.94E-04	1.18E-03	2.81E-03	1.60E-04	2.69E-04	2.88E-03	7.69E-03
3.90E-04	1.18E-03	2.78E-03	1.59E-04	2.85E-03	2.85E-03	1.02E-02	3.90E-04	1.18E-03	2.78E-03	1.59E-04	2.66E-04	2.85E-03	7.62E-03
3.87E-04	1.16E-03	2.74E-03	1.56E-04	2.80E-03	2.80E-03	1.00E-02	3.87E-04	1.16E-03	2.74E-03	1.56E-04	2.62E-04	2.80E-03	7.51E-03
3.83E-04	1.15E-03	2.69E-03	1.54E-04	2.76E-03	2.76E-03	9.90E-03	3.83E-04	1.15E-03	2.69E-03	1.54E-04	2.58E-04	2.76E-03	7.40E-03
3.79E-04	1.13E-03	2.63E-03	1.50E-04	2.70E-03	2.70E-03	9.68E-03	3.79E-04	1.13E-03	2.63E-03	1.50E-04	2.52E-04	2.70E-03	7.24E-03
3.75E-04	1.12E-03	2.60E-03	1.48E-04	2.66E-03	2.66E-03	9.56E-03	3.75E-04	1.12E-03	2.60E-03	1.48E-04	2.49E-04	2.66E-03	7.15E-03
3.71E-04	1.10E-03	2.54E-03	1.45E-04	2.61E-03	2.61E-03	9.36E-03	3.71E-04	1.10E-03	2.54E-03	1.45E-04	2.44E-04	2.61E-03	7.00E-03
3.67E-04	1.08E-03	2.50E-03	1.42E-04	2.57E-03	2.57E-03	9.22E-03	3.67E-04	1.08E-03	2.50E-03	1.42E-04	2.40E-04	2.57E-03	6.90E-03
3.64E-04	1.07E-03	2.45E-03	1.40E-04	2.53E-03	2.53E-03	9.08E-03	3.64E-04	1.07E-03	2.45E-03	1.40E-04	2.36E-04	2.53E-03	6.79E-03
3.60E-04	1.05E-03	2.41E-03	1.37E-04	2.48E-03	2.48E-03	8.93E-03	3.60E-04	1.05E-03	2.41E-03	1.37E-04	2.32E-04	2.48E-03	6.68E-03
3.55E-04	1.03E-03	2.35E-03	1.34E-04	2.43E-03	2.43E-03	8.72E-03	3.55E-04	1.03E-03	2.35E-03	1.34E-04	2.26E-04	2.43E-03	6.52E-03
3.53E-04	1.02E-03	2.31E-03	1.32E-04	2.39E-03	2.39E-03	8.60E-03	3.53E-04	1.02E-03	2.31E-03	1.32E-04	2.23E-04	2.39E-03	6.43E-03
3.51E-04	1.01E-03	2.29E-03	1.30E-04	2.37E-03	2.37E-03	8.52E-03	3.51E-04	1.01E-03	2.29E-03	1.30E-04	2.21E-04	2.37E-03	6.37E-03
3.49E-04	9.98E-04	2.26E-03	1.29E-04	2.34E-03	2.34E-03	8.42E-03	3.49E-04	9.98E-04	2.26E-03	1.29E-04	2.19E-04	2.34E-03	6.30E-03
3.47E-04	9.91E-04	2.25E-03	1.28E-04	2.32E-03	2.32E-03	8.36E-03	3.47E-04	9.91E-04	2.25E-03	1.28E-04	2.17E-04	2.32E-03	6.25E-03
3.45E-04	9.87E-04	2.23E-03	1.27E-04	2.31E-03	2.31E-03	8.31E-03	3.45E-04	9.87E-04	2.23E-03	1.27E-04	2.16E-04	2.31E-03	6.22E-03
3.44E-04	9.83E-04	2.22E-03	1.27E-04	2.30E-03	2.30E-03	8.27E-03	3.44E-04	9.83E-04	2.22E-03	1.27E-04	2.16E-04	2.30E-03	6.19E-03
3.43E-04	9.79E-04	2.21E-03	1.26E-04	2.28E-03	2.28E-03	8.23E-03	3.43E-04	9.79E-04	2.21E-03	1.26E-04	2.15E-04	2.28E-03	6.16E-03
3.41E-04	9.71E-04	2.20E-03	1.25E-04	2.26E-03	2.26E-03	8.16E-03	3.41E-04	9.71E-04	2.20E-03	1.25E-04	2.14E-04	2.26E-03	6.11E-03
3.40E-04	9.69E-04	2.19E-03	1.25E-04	2.26E-03	2.26E-03	8.14E-03	3.40E-04	9.69E-04	2.19E-03	1.25E-04	2.14E-04	2.26E-03	6.10E-03
3.39E-04	9.60E-04	2.17E-03	1.24E-04	2.23E-03	2.23E-03	8.06E-03	3.39E-04	9.60E-04	2.17E-03	1.24E-04	2.12E-04	2.23E-03	6.04E-03
3.37E-04	9.56E-04	2.16E-03	1.23E-04	2.22E-03	2.22E-03	8.03E-03	3.37E-04	9.56E-04	2.16E-03	1.23E-04	2.11E-04	2.22E-03	6.01E-03
3.96E-04	1.16E-03	2.65E-03	1.50E-04	2.80E-03	2.80E-03	9.95E-03	3.96E-04	1.16E-03	2.65E-03	1.50E-04	2.46E-04	2.80E-03	7.40E-03
4.02E-04	1.20E-03	2.77E-03	1.58E-04	2.91E-03	2.91E-03	1.04E-02	4.02E-04	1.20E-03	2.77E-03	1.58E-04	2.61E-04	2.91E-03	7.71E-03
4.10E-04	1.26E-03	2.92E-03	1.66E-04	3.04E-03	3.04E-03	1.08E-02	4.10E-04	1.26E-03	2.92E-03	1.66E-04	2.77E-04	3.04E-03	8.07E-03
4.11E-04	1.27E-03	2.94E-03	1.67E-04	3.03E-03	3.03E-03	1.08E-02	4.11E-04	1.27E-03	2.94E-03	1.67E-04	2.78E-04	3.03E-03	8.09E-03
4.08E-04	1.26E-03	2.91E-03	1.66E-04	3.01E-03	3.01E-03	1.08E-02	4.08E-04	1.26E-03	2.91E-03	1.66E-04	2.76E-04	3.01E-03	8.03E-03
4.06E-04	1.26E-03	2.89E-03	1.65E-04	2.99E-03	2.99E-03	1.07E-02	4.06E-04	1.26E-03	2.89E-03	1.65E-04	2.75E-04	2.99E-03	7.98E-03
4.03E-04	1.25E-03	2.87E-03	1.63E-04	2.96E-03	2.96E-03	1.06E-02	4.03E-04	1.25E-03	2.87E-03	1.63E-04	2.73E-04	2.96E-03	7.92E-03
4.00E-04	1.24E-03	2.83E-03	1.61E-04	2.92E-03	2.92E-03	1.05E-02	4.00E-04	1.24E-03	2.83E-03	1.61E-04	2.70E-04	2.92E-03	7.82E-03
3.96E-04	1.22E-03	2.78E-03	1.58E-04	2.87E-03	2.87E-03	1.03E-02	3.96E-04	1.22E-03	2.78E-03	1.58E-04	2.66E-04	2.87E-03	7.69E-03
3.92E-04	1.20E-03	2.74E-03	1.56E-04	2.83E-03	2.83E-03	1.02E-02	3.92E-04	1.20E-03	2.74E-03	1.56E-04	2.62E-04	2.83E-03	7.59E-03
3.87E-04	1.18E-03	2.68E-03	1.53E-04	2.78E-03	2.78E-03	9.96E-03	3.87E-04	1.18E-03	2.68E-03	1.53E-04	2.57E-04	2.78E-03	7.44E-03

3.83E-04	1.17E-03	2.63E-03	1.50E-04	2.72E-03	2.72E-03	9.78E-03	3.83E-04	1.17E-03	2.63E-03	1.50E-04	2.52E-04	2.72E-03	7.31E-03
3.79E-04	1.15E-03	2.57E-03	1.47E-04	2.67E-03	2.67E-03	9.58E-03	3.79E-04	1.15E-03	2.57E-03	1.47E-04	2.47E-04	2.67E-03	7.16E-03
3.74E-04	1.13E-03	2.52E-03	1.44E-04	2.62E-03	2.62E-03	9.40E-03	3.74E-04	1.13E-03	2.52E-03	1.44E-04	2.42E-04	2.62E-03	7.03E-03
3.71E-04	1.11E-03	2.48E-03	1.42E-04	2.58E-03	2.58E-03	9.26E-03	3.71E-04	1.11E-03	2.48E-03	1.42E-04	2.38E-04	2.58E-03	6.92E-03
3.67E-04	1.10E-03	2.44E-03	1.39E-04	2.53E-03	2.53E-03	9.11E-03	3.67E-04	1.10E-03	2.44E-03	1.39E-04	2.34E-04	2.53E-03	6.81E-03
3.63E-04	1.08E-03	2.39E-03	1.36E-04	2.48E-03	2.48E-03	8.93E-03	3.63E-04	1.08E-03	2.39E-03	1.36E-04	2.29E-04	2.48E-03	6.68E-03
3.60E-04	1.06E-03	2.35E-03	1.34E-04	2.45E-03	2.45E-03	8.81E-03	3.60E-04	1.06E-03	2.35E-03	1.34E-04	2.26E-04	2.45E-03	6.59E-03
3.57E-04	1.05E-03	2.32E-03	1.32E-04	2.41E-03	2.41E-03	8.68E-03	3.57E-04	1.05E-03	2.32E-03	1.32E-04	2.23E-04	2.41E-03	6.49E-03
3.55E-04	1.04E-03	2.30E-03	1.31E-04	2.40E-03	2.40E-03	8.63E-03	3.55E-04	1.04E-03	2.30E-03	1.31E-04	2.22E-04	2.40E-03	6.45E-03
3.53E-04	1.04E-03	2.28E-03	1.30E-04	2.38E-03	2.38E-03	8.55E-03	3.53E-04	1.04E-03	2.28E-03	1.30E-04	2.20E-04	2.38E-03	6.40E-03
3.52E-04	1.03E-03	2.27E-03	1.29E-04	2.36E-03	2.36E-03	8.50E-03	3.52E-04	1.03E-03	2.27E-03	1.29E-04	2.19E-04	2.36E-03	6.36E-03
3.51E-04	1.03E-03	2.26E-03	1.29E-04	2.35E-03	2.35E-03	8.47E-03	3.51E-04	1.03E-03	2.26E-03	1.29E-04	2.19E-04	2.35E-03	6.34E-03
3.50E-04	1.03E-03	2.26E-03	1.29E-04	2.34E-03	2.34E-03	8.45E-03	3.50E-04	1.03E-03	2.26E-03	1.29E-04	2.19E-04	2.34E-03	6.33E-03
3.48E-04	1.02E-03	2.24E-03	1.28E-04	2.32E-03	2.32E-03	8.37E-03	3.48E-04	1.02E-03	2.24E-03	1.28E-04	2.17E-04	2.32E-03	6.26E-03
3.46E-04	1.01E-03	2.22E-03	1.27E-04	2.30E-03	2.30E-03	8.30E-03	3.46E-04	1.01E-03	2.22E-03	1.27E-04	2.16E-04	2.30E-03	6.22E-03
3.44E-04	9.97E-04	2.19E-03	1.25E-04	2.27E-03	2.27E-03	8.21E-03	3.44E-04	9.97E-04	2.19E-03	1.25E-04	2.14E-04	2.27E-03	6.15E-03
3.43E-04	9.93E-04	2.19E-03	1.25E-04	2.26E-03	2.26E-03	8.17E-03	3.43E-04	9.93E-04	2.19E-03	1.25E-04	2.13E-04	2.26E-03	6.12E-03
4.06E-04	1.22E-03	2.69E-03	1.52E-04	2.86E-03	2.86E-03	1.02E-02	4.06E-04	1.22E-03	2.69E-03	1.52E-04	2.48E-04	2.86E-03	7.57E-03
4.15E-04	1.28E-03	2.86E-03	1.62E-04	3.02E-03	3.02E-03	1.08E-02	4.15E-04	1.28E-03	2.86E-03	1.62E-04	2.69E-04	3.02E-03	8.01E-03
4.20E-04	1.32E-03	2.96E-03	1.68E-04	3.11E-03	3.11E-03	1.11E-02	4.20E-04	1.32E-03	2.96E-03	1.68E-04	2.80E-04	3.11E-03	8.26E-03
4.18E-04	1.32E-03	2.96E-03	1.68E-04	3.10E-03	3.10E-03	1.11E-02	4.18E-04	1.32E-03	2.96E-03	1.68E-04	2.80E-04	3.10E-03	8.25E-03
4.18E-04	1.32E-03	2.96E-03	1.68E-04	3.08E-03	3.08E-03	1.10E-02	4.18E-04	1.32E-03	2.96E-03	1.68E-04	2.79E-04	3.08E-03	8.23E-03
4.15E-04	1.32E-03	2.93E-03	1.67E-04	3.06E-03	3.06E-03	1.09E-02	4.15E-04	1.32E-03	2.93E-03	1.67E-04	2.77E-04	3.06E-03	8.17E-03
4.10E-04	1.29E-03	2.87E-03	1.63E-04	3.00E-03	3.00E-03	1.07E-02	4.10E-04	1.29E-03	2.87E-03	1.63E-04	2.72E-04	3.00E-03	8.01E-03
4.08E-04	1.29E-03	2.87E-03	1.63E-04	2.99E-03	2.99E-03	1.07E-02	4.08E-04	1.29E-03	2.87E-03	1.63E-04	2.72E-04	2.99E-03	7.99E-03
3.99E-04	1.25E-03	2.74E-03	1.56E-04	2.87E-03	2.87E-03	1.03E-02	3.99E-04	1.25E-03	2.74E-03	1.56E-04	2.60E-04	2.87E-03	7.67E-03
4.00E-04	1.25E-03	2.76E-03	1.57E-04	2.88E-03	2.88E-03	1.03E-02	4.00E-04	1.25E-03	2.76E-03	1.57E-04	2.63E-04	2.88E-03	7.72E-03
3.94E-04	1.23E-03	2.71E-03	1.54E-04	2.82E-03	2.82E-03	1.01E-02	3.94E-04	1.23E-03	2.71E-03	1.54E-04	2.59E-04	2.82E-03	7.57E-03
3.91E-04	1.22E-03	2.66E-03	1.51E-04	2.78E-03	2.78E-03	9.97E-03	3.91E-04	1.22E-03	2.66E-03	1.51E-04	2.54E-04	2.78E-03	7.45E-03
3.87E-04	1.20E-03	2.62E-03	1.49E-04	2.74E-03	2.74E-03	9.83E-03	3.87E-04	1.20E-03	2.62E-03	1.49E-04	2.50E-04	2.74E-03	7.34E-03
3.81E-04	1.17E-03	2.54E-03	1.45E-04	2.66E-03	2.66E-03	9.56E-03	3.81E-04	1.17E-03	2.54E-03	1.45E-04	2.43E-04	2.66E-03	7.14E-03
3.77E-04	1.15E-03	2.49E-03	1.42E-04	2.61E-03	2.61E-03	9.39E-03	3.77E-04	1.15E-03	2.49E-03	1.42E-04	2.38E-04	2.61E-03	7.01E-03
3.74E-04	1.14E-03	2.47E-03	1.41E-04	2.59E-03	2.59E-03	9.30E-03	3.74E-04	1.14E-03	2.47E-03	1.41E-04	2.37E-04	2.59E-03	6.95E-03
3.70E-04	1.12E-03	2.41E-03	1.37E-04	2.53E-03	2.53E-03	9.10E-03	3.70E-04	1.12E-03	2.41E-03	1.37E-04	2.31E-04	2.53E-03	6.80E-03
3.67E-04	1.11E-03	2.39E-03	1.36E-04	2.50E-03	2.50E-03	9.00E-03	3.67E-04	1.11E-03	2.39E-03	1.36E-04	2.29E-04	2.50E-03	6.73E-03
3.64E-04	1.09E-03	2.35E-03	1.34E-04	2.46E-03	2.46E-03	8.86E-03	3.64E-04	1.09E-03	2.35E-03	1.34E-04	2.25E-04	2.46E-03	6.63E-03
3.62E-04	1.09E-03	2.34E-03	1.33E-04	2.45E-03	2.45E-03	8.82E-03	3.62E-04	1.09E-03	2.34E-03	1.33E-04	2.25E-04	2.45E-03	6.60E-03
3.61E-04	1.08E-03	2.33E-03	1.33E-04	2.44E-03	2.44E-03	8.78E-03	3.61E-04	1.08E-03	2.33E-03	1.33E-04	2.24E-04	2.44E-03	6.56E-03
3.59E-04	1.08E-03	2.31E-03	1.32E-04	2.42E-03	2.42E-03	8.71E-03	3.59E-04	1.08E-03	2.31E-03	1.32E-04	2.23E-04	2.42E-03	6.52E-03
3.58E-04	1.07E-03	2.31E-03	1.32E-04	2.41E-03	2.41E-03	8.69E-03	3.58E-04	1.07E-03	2.31E-03	1.32E-04	2.23E-04	2.41E-03	6.50E-03
3.57E-04	1.07E-03	2.29E-03	1.31E-04	2.39E-03	2.39E-03	8.63E-03	3.57E-04	1.07E-03	2.29E-03	1.31E-04	2.22E-04	2.39E-03	6.46E-03
3.55E-04	1.06E-03	2.28E-03	1.30E-04	2.37E-03	2.37E-03	8.56E-03	3.55E-04	1.06E-03	2.28E-03	1.30E-04	2.21E-04	2.37E-03	6.41E-03
3.53E-04	1.05E-03	2.25E-03	1.29E-04	2.35E-03	2.35E-03	8.48E-03	3.53E-04	1.05E-03	2.25E-03	1.29E-04	2.19E-04	2.35E-03	6.35E-03
3.51E-04	1.04E-03	2.23E-03	1.27E-04	2.32E-03	2.32E-03	8.40E-03	3.51E-04	1.04E-03	2.23E-03	1.27E-04	2.17E-04	2.32E-03	6.29E-03
3.49E-04	1.03E-03	2.22E-03	1.27E-04	2.31E-03	2.31E-03	8.34E-03	3.49E-04	1.03E-03	2.22E-03	1.27E-04	2.16E-04	2.31E-03	6.25E-03
4.15E-04	1.28E-03	2.73E-03	1.54E-04	2.93E-03	2.93E-03	1.04E-02	4.15E-04	1.28E-03	2.73E-03	1.54E-04	2.52E-04	2.93E-03	7.76E-03
4.27E-04	1.36E-03	2.93E-03	1.66E-04	3.13E-03	3.13E-03	1.11E-02	4.27E-04	1.36E-03	2.93E-03	1.66E-04	2.75E-04	3.13E-03	8.29E-03
4.31E-04	1.39E-03	3.01E-03	1.71E-04	3.20E-03	3.20E-03	1.14E-02	4.31E-04	1.39E-03	3.01E-03	1.71E-04	2.83E-04	3.20E-03	8.48E-03
4.29E-04	1.39E-03	3.01E-03	1.71E-04	3.19E-03	3.19E-03	1.14E-02	4.29E-04	1.39E-03	3.01E-03	1.71E-04	2.83E-04	3.19E-03	8.46E-03
4.29E-04	1.40E-03	3.02E-03	1.71E-04	3.17E-03	3.17E-03	1.14E-02	4.29E-04	1.40E-03	3.02E-03	1.71E-04	2.83E-04	3.17E-03	8.47E-03
4.24E-04	1.37E-03	2.97E-03	1.69E-04	3.13E-03	3.13E-03	1.12E-02	4.24E-04	1.37E-03	2.97E-03	1.69E-04	2.81E-04	3.13E-03	8.35E-03
4.20E-04	1.36E-03	2.92E-03	1.66E-04	3.08E-03	3.08E-03	1.10E-02	4.20E-04	1.36E-03	2.92E-03	1.66E-04	2.76E-04	3.08E-03	8.22E-03
4.16E-04	1.34E-03	2.89E-03	1.64E-04	3.05E-03	3.05E-03	1.09E-02	4.16E-04	1.34E-03	2.89E-03	1.64E-04	2.75E-04	3.05E-03	8.14E-03
4.10E-04	1.31E-03	2.82E-03	1.60E-04	2.98E-03	2.98E-03	1.07E-02	4.10E-04	1.31E-03	2.82E-03	1.60E-04	2.68E-04	2.98E-03	7.95E-03

4.08E-04	1.31E-03	2.80E-03	1.59E-04	2.94E-03	2.94E-03	1.06E-02	4.08E-04	1.31E-03	2.80E-03	1.59E-04	2.65E-04	2.94E-03	7.89E-03
4.03E-04	1.29E-03	2.74E-03	1.55E-04	2.88E-03	2.88E-03	1.03E-02	4.03E-04	1.29E-03	2.74E-03	1.55E-04	2.60E-04	2.88E-03	7.72E-03
3.98E-04	1.26E-03	2.68E-03	1.52E-04	2.82E-03	2.82E-03	1.01E-02	3.98E-04	1.26E-03	2.68E-03	1.52E-04	2.55E-04	2.82E-03	7.58E-03
3.93E-04	1.24E-03	2.62E-03	1.49E-04	2.76E-03	2.76E-03	9.93E-03	3.93E-04	1.24E-03	2.62E-03	1.49E-04	2.49E-04	2.76E-03	7.42E-03
3.89E-04	1.22E-03	2.58E-03	1.47E-04	2.72E-03	2.72E-03	9.78E-03	3.89E-04	1.22E-03	2.58E-03	1.47E-04	2.45E-04	2.72E-03	7.30E-03
3.86E-04	1.21E-03	2.55E-03	1.45E-04	2.69E-03	2.69E-03	9.66E-03	3.86E-04	1.21E-03	2.55E-03	1.45E-04	2.43E-04	2.69E-03	7.22E-03
3.82E-04	1.19E-03	2.50E-03	1.42E-04	2.64E-03	2.64E-03	9.50E-03	3.82E-04	1.19E-03	2.50E-03	1.42E-04	2.39E-04	2.64E-03	7.10E-03
3.78E-04	1.17E-03	2.45E-03	1.39E-04	2.59E-03	2.59E-03	9.32E-03	3.78E-04	1.17E-03	2.45E-03	1.39E-04	2.34E-04	2.59E-03	6.96E-03
3.74E-04	1.16E-03	2.42E-03	1.38E-04	2.56E-03	2.56E-03	9.20E-03	3.74E-04	1.16E-03	2.42E-03	1.38E-04	2.32E-04	2.56E-03	6.88E-03
3.71E-04	1.14E-03	2.38E-03	1.36E-04	2.52E-03	2.52E-03	9.06E-03	3.71E-04	1.14E-03	2.38E-03	1.36E-04	2.28E-04	2.52E-03	6.77E-03
3.70E-04	1.14E-03	2.37E-03	1.35E-04	2.50E-03	2.50E-03	9.01E-03	3.70E-04	1.14E-03	2.37E-03	1.35E-04	2.27E-04	2.50E-03	6.74E-03
3.68E-04	1.13E-03	2.36E-03	1.34E-04	2.49E-03	2.49E-03	8.97E-03	3.68E-04	1.13E-03	2.36E-03	1.34E-04	2.27E-04	2.49E-03	6.71E-03
3.66E-04	1.12E-03	2.34E-03	1.34E-04	2.47E-03	2.47E-03	8.90E-03	3.66E-04	1.12E-03	2.34E-03	1.34E-04	2.26E-04	2.47E-03	6.66E-03
3.66E-04	1.12E-03	2.34E-03	1.34E-04	2.46E-03	2.46E-03	8.89E-03	3.66E-04	1.12E-03	2.34E-03	1.34E-04	2.26E-04	2.46E-03	6.65E-03
3.64E-04	1.11E-03	2.33E-03	1.33E-04	2.45E-03	2.45E-03	8.83E-03	3.64E-04	1.11E-03	2.33E-03	1.33E-04	2.25E-04	2.45E-03	6.61E-03
3.62E-04	1.11E-03	2.31E-03	1.32E-04	2.42E-03	2.42E-03	8.76E-03	3.62E-04	1.11E-03	2.31E-03	1.32E-04	2.24E-04	2.42E-03	6.56E-03
3.60E-04	1.10E-03	2.29E-03	1.31E-04	2.40E-03	2.40E-03	8.68E-03	3.60E-04	1.10E-03	2.29E-03	1.31E-04	2.22E-04	2.40E-03	6.50E-03
3.57E-04	1.09E-03	2.27E-03	1.29E-04	2.38E-03	2.38E-03	8.59E-03	3.57E-04	1.09E-03	2.27E-03	1.29E-04	2.20E-04	2.38E-03	6.44E-03
3.55E-04	1.08E-03	2.25E-03	1.28E-04	2.36E-03	2.36E-03	8.53E-03	3.55E-04	1.08E-03	2.25E-03	1.28E-04	2.19E-04	2.36E-03	6.39E-03
4.28E-04	1.36E-03	2.81E-03	1.59E-04	3.05E-03	3.05E-03	1.09E-02	4.28E-04	1.36E-03	2.81E-03	1.59E-04	2.60E-04	3.05E-03	8.07E-03
4.39E-04	1.43E-03	2.99E-03	1.69E-04	3.22E-03	3.22E-03	1.15E-02	4.39E-04	1.43E-03	2.99E-03	1.69E-04	2.79E-04	3.22E-03	8.53E-03
4.40E-04	1.45E-03	3.03E-03	1.72E-04	3.25E-03	3.25E-03	1.16E-02	4.40E-04	1.45E-03	3.03E-03	1.72E-04	2.83E-04	3.25E-03	8.63E-03
4.40E-04	1.45E-03	3.05E-03	1.72E-04	3.26E-03	3.26E-03	1.16E-02	4.40E-04	1.45E-03	3.05E-03	1.72E-04	2.85E-04	3.26E-03	8.66E-03
4.40E-04	1.47E-03	3.06E-03	1.73E-04	3.25E-03	3.25E-03	1.16E-02	4.40E-04	1.47E-03	3.06E-03	1.73E-04	2.86E-04	3.25E-03	8.68E-03
4.37E-04	1.46E-03	3.04E-03	1.72E-04	3.23E-03	3.23E-03	1.16E-02	4.37E-04	1.46E-03	3.04E-03	1.72E-04	2.85E-04	3.23E-03	8.63E-03
4.34E-04	1.44E-03	3.01E-03	1.70E-04	3.19E-03	3.19E-03	1.14E-02	4.34E-04	1.44E-03	3.01E-03	1.70E-04	2.82E-04	3.19E-03	8.54E-03
4.28E-04	1.42E-03	2.96E-03	1.67E-04	3.14E-03	3.14E-03	1.12E-02	4.28E-04	1.42E-03	2.96E-03	1.67E-04	2.78E-04	3.14E-03	8.39E-03
4.23E-04	1.40E-03	2.90E-03	1.64E-04	3.07E-03	3.07E-03	1.10E-02	4.23E-04	1.40E-03	2.90E-03	1.64E-04	2.73E-04	3.07E-03	8.22E-03
4.17E-04	1.37E-03	2.82E-03	1.60E-04	3.00E-03	3.00E-03	1.08E-02	4.17E-04	1.37E-03	2.82E-03	1.60E-04	2.66E-04	3.00E-03	8.03E-03
4.10E-04	1.34E-03	2.75E-03	1.56E-04	2.92E-03	2.92E-03	1.05E-02	4.10E-04	1.34E-03	2.75E-03	1.56E-04	2.60E-04	2.92E-03	7.84E-03
4.06E-04	1.32E-03	2.71E-03	1.54E-04	2.88E-03	2.88E-03	1.04E-02	4.06E-04	1.32E-03	2.71E-03	1.54E-04	2.57E-04	2.88E-03	7.73E-03
4.01E-04	1.29E-03	2.65E-03	1.51E-04	2.82E-03	2.82E-03	1.01E-02	4.01E-04	1.29E-03	2.65E-03	1.51E-04	2.51E-04	2.82E-03	7.57E-03
3.97E-04	1.28E-03	2.61E-03	1.48E-04	2.78E-03	2.78E-03	9.99E-03	3.97E-04	1.28E-03	2.61E-03	1.48E-04	2.48E-04	2.78E-03	7.46E-03
3.93E-04	1.26E-03	2.57E-03	1.46E-04	2.73E-03	2.73E-03	9.82E-03	3.93E-04	1.26E-03	2.57E-03	1.46E-04	2.44E-04	2.73E-03	7.33E-03
3.90E-04	1.24E-03	2.54E-03	1.44E-04	2.70E-03	2.70E-03	9.71E-03	3.90E-04	1.24E-03	2.54E-03	1.44E-04	2.41E-04	2.70E-03	7.25E-03
3.85E-04	1.22E-03	2.48E-03	1.41E-04	2.64E-03	2.64E-03	9.50E-03	3.85E-04	1.22E-03	2.48E-03	1.41E-04	2.36E-04	2.64E-03	7.10E-03
3.81E-04	1.20E-03	2.44E-03	1.38E-04	2.60E-03	2.60E-03	9.35E-03	3.81E-04	1.20E-03	2.44E-03	1.38E-04	2.32E-04	2.60E-03	6.98E-03
3.79E-04	1.19E-03	2.41E-03	1.37E-04	2.57E-03	2.57E-03	9.26E-03	3.79E-04	1.19E-03	2.41E-03	1.37E-04	2.30E-04	2.57E-03	6.92E-03
3.77E-04	1.18E-03	2.40E-03	1.37E-04	2.55E-03	2.55E-03	9.20E-03	3.77E-04	1.18E-03	2.40E-03	1.37E-04	2.30E-04	2.55E-03	6.88E-03
3.75E-04	1.18E-03	2.39E-03	1.36E-04	2.54E-03	2.54E-03	9.17E-03	3.75E-04	1.18E-03	2.39E-03	1.36E-04	2.30E-04	2.54E-03	6.86E-03
3.74E-04	1.17E-03	2.38E-03	1.36E-04	2.52E-03	2.52E-03	9.11E-03	3.74E-04	1.17E-03	2.38E-03	1.36E-04	2.29E-04	2.52E-03	6.81E-03
3.73E-04	1.17E-03	2.39E-03	1.36E-04	2.52E-03	2.52E-03	9.11E-03	3.73E-04	1.17E-03	2.39E-03	1.36E-04	2.30E-04	2.52E-03	6.82E-03
3.71E-04	1.16E-03	2.37E-03	1.35E-04	2.50E-03	2.50E-03	9.05E-03	3.71E-04	1.16E-03	2.37E-03	1.35E-04	2.28E-04	2.50E-03	6.77E-03
3.69E-04	1.15E-03	2.35E-03	1.34E-04	2.48E-03	2.48E-03	8.96E-03	3.69E-04	1.15E-03	2.35E-03	1.34E-04	2.27E-04	2.48E-03	6.71E-03
3.67E-04	1.14E-03	2.33E-03	1.33E-04	2.46E-03	2.46E-03	8.89E-03	3.67E-04	1.14E-03	2.33E-03	1.33E-04	2.25E-04	2.46E-03	6.65E-03
3.64E-04	1.13E-03	2.30E-03	1.31E-04	2.43E-03	2.43E-03	8.78E-03	3.64E-04	1.13E-03	2.30E-03	1.31E-04	2.23E-04	2.43E-03	6.58E-03
3.63E-04	1.12E-03	2.29E-03	1.31E-04	2.41E-03	2.41E-03	8.73E-03	3.63E-04	1.12E-03	2.29E-03	1.31E-04	2.22E-04	2.41E-03	6.54E-03
4.49E-04	1.49E-03	3.01E-03	1.70E-04	3.27E-03	3.27E-03	1.17E-02	4.49E-04	1.49E-03	3.01E-03	1.70E-04	2.78E-04	3.27E-03	8.67E-03
4.55E-04	1.54E-03	3.11E-03	1.75E-04	3.37E-03	3.37E-03	1.20E-02	4.55E-04	1.54E-03	3.11E-03	1.75E-04	2.88E-04	3.37E-03	8.94E-03
4.53E-04	1.53E-03	3.10E-03	1.75E-04	3.35E-03	3.35E-03	1.20E-02	4.53E-04	1.53E-03	3.10E-03	1.75E-04	2.87E-04	3.35E-03	8.90E-03
4.51E-04	1.53E-03	3.10E-03	1.75E-04	3.35E-03	3.35E-03	1.19E-02	4.51E-04	1.53E-03	3.10E-03	1.75E-04	2.88E-04	3.35E-03	8.89E-03
4.51E-04	1.54E-03	3.10E-03	1.74E-04	3.32E-03	3.32E-03	1.19E-02	4.51E-04	1.54E-03	3.10E-03	1.74E-04	2.87E-04	3.32E-03	8.87E-03
4.48E-04	1.53E-03	3.08E-03	1.73E-04	3.29E-03	3.29E-03	1.18E-02	4.48E-04	1.53E-03	3.08E-03	1.73E-04	2.86E-04	3.29E-03	8.80E-03
4.43E-04	1.51E-03	3.04E-03	1.71E-04	3.25E-03	3.25E-03	1.17E-02	4.43E-04	1.51E-03	3.04E-03	1.71E-04	2.83E-04	3.25E-03	8.69E-03

4.38E-04	1.48E-03	2.99E-03	1.68E-04	3.19E-03	3.19E-03	1.15E-02	4.38E-04	1.48E-03	2.99E-03	1.68E-04	2.79E-04	3.19E-03	8.55E-03
4.31E-04	1.45E-03	2.91E-03	1.64E-04	3.12E-03	3.12E-03	1.12E-02	4.31E-04	1.45E-03	2.91E-03	1.64E-04	2.73E-04	3.12E-03	8.35E-03
4.25E-04	1.42E-03	2.84E-03	1.61E-04	3.05E-03	3.05E-03	1.09E-02	4.25E-04	1.42E-03	2.84E-03	1.61E-04	2.67E-04	3.05E-03	8.16E-03
4.20E-04	1.39E-03	2.79E-03	1.57E-04	2.99E-03	2.99E-03	1.07E-02	4.20E-04	1.39E-03	2.79E-03	1.57E-04	2.62E-04	2.99E-03	8.00E-03
4.16E-04	1.38E-03	2.75E-03	1.55E-04	2.94E-03	2.94E-03	1.06E-02	4.16E-04	1.38E-03	2.75E-03	1.55E-04	2.59E-04	2.94E-03	7.90E-03
4.10E-04	1.35E-03	2.70E-03	1.53E-04	2.89E-03	2.89E-03	1.04E-02	4.10E-04	1.35E-03	2.70E-03	1.53E-04	2.54E-04	2.89E-03	7.75E-03
4.06E-04	1.33E-03	2.65E-03	1.50E-04	2.84E-03	2.84E-03	1.02E-02	4.06E-04	1.33E-03	2.65E-03	1.50E-04	2.50E-04	2.84E-03	7.63E-03
4.02E-04	1.31E-03	2.61E-03	1.48E-04	2.80E-03	2.80E-03	1.01E-02	4.02E-04	1.31E-03	2.61E-03	1.48E-04	2.47E-04	2.80E-03	7.52E-03
3.98E-04	1.29E-03	2.57E-03	1.46E-04	2.75E-03	2.75E-03	9.91E-03	3.98E-04	1.29E-03	2.57E-03	1.46E-04	2.43E-04	2.75E-03	7.40E-03
3.91E-04	1.26E-03	2.49E-03	1.41E-04	2.67E-03	2.67E-03	9.63E-03	3.91E-04	1.26E-03	2.49E-03	1.41E-04	2.36E-04	2.67E-03	7.20E-03
3.87E-04	1.24E-03	2.45E-03	1.39E-04	2.63E-03	2.63E-03	9.48E-03	3.87E-04	1.24E-03	2.45E-03	1.39E-04	2.33E-04	2.63E-03	7.08E-03
3.87E-04	1.24E-03	2.45E-03	1.39E-04	2.63E-03	2.63E-03	9.47E-03	3.87E-04	1.24E-03	2.45E-03	1.39E-04	2.33E-04	2.63E-03	7.08E-03
3.85E-04	1.23E-03	2.44E-03	1.38E-04	2.61E-03	2.61E-03	9.41E-03	3.85E-04	1.23E-03	2.44E-03	1.38E-04	2.33E-04	2.61E-03	7.04E-03
3.83E-04	1.23E-03	2.44E-03	1.38E-04	2.60E-03	2.60E-03	9.39E-03	3.83E-04	1.23E-03	2.44E-03	1.38E-04	2.33E-04	2.60E-03	7.02E-03
3.82E-04	1.22E-03	2.43E-03	1.38E-04	2.59E-03	2.59E-03	9.34E-03	3.82E-04	1.22E-03	2.43E-03	1.38E-04	2.32E-04	2.59E-03	6.99E-03
3.80E-04	1.22E-03	2.42E-03	1.37E-04	2.57E-03	2.57E-03	9.29E-03	3.80E-04	1.22E-03	2.42E-03	1.37E-04	2.32E-04	2.57E-03	6.95E-03
3.79E-04	1.21E-03	2.41E-03	1.37E-04	2.56E-03	2.56E-03	9.26E-03	3.79E-04	1.21E-03	2.41E-03	1.37E-04	2.31E-04	2.56E-03	6.93E-03
3.77E-04	1.20E-03	2.39E-03	1.36E-04	2.54E-03	2.54E-03	9.19E-03	3.77E-04	1.20E-03	2.39E-03	1.36E-04	2.31E-04	2.54E-03	6.88E-03
3.74E-04	1.18E-03	2.35E-03	1.34E-04	2.50E-03	2.50E-03	9.05E-03	3.74E-04	1.18E-03	2.35E-03	1.34E-04	2.27E-04	2.50E-03	6.78E-03
3.71E-04	1.17E-03	2.33E-03	1.32E-04	2.47E-03	2.47E-03	8.94E-03	3.71E-04	1.17E-03	2.33E-03	1.32E-04	2.24E-04	2.47E-03	6.69E-03
3.69E-04	1.16E-03	2.32E-03	1.32E-04	2.46E-03	2.46E-03	8.90E-03	3.69E-04	1.16E-03	2.32E-03	1.32E-04	2.24E-04	2.46E-03	6.67E-03
4.64E-04	1.58E-03	3.09E-03	1.74E-04	3.38E-03	3.38E-03	1.21E-02	4.64E-04	1.58E-03	3.09E-03	1.74E-04	2.83E-04	3.38E-03	8.98E-03
4.67E-04	1.62E-03	3.16E-03	1.77E-04	3.45E-03	3.45E-03	1.23E-02	4.67E-04	1.62E-03	3.16E-03	1.77E-04	2.90E-04	3.45E-03	9.17E-03
4.66E-04	1.62E-03	3.16E-03	1.77E-04	3.45E-03	3.45E-03	1.23E-02	4.66E-04	1.62E-03	3.16E-03	1.77E-04	2.91E-04	3.45E-03	9.16E-03
4.66E-04	1.63E-03	3.17E-03	1.77E-04	3.44E-03	3.44E-03	1.23E-02	4.66E-04	1.63E-03	3.17E-03	1.77E-04	2.91E-04	3.44E-03	9.17E-03
4.64E-04	1.62E-03	3.16E-03	1.77E-04	3.42E-03	3.42E-03	1.23E-02	4.64E-04	1.62E-03	3.16E-03	1.77E-04	2.91E-04	3.42E-03	9.14E-03
4.59E-04	1.60E-03	3.12E-03	1.75E-04	3.37E-03	3.37E-03	1.21E-02	4.59E-04	1.60E-03	3.12E-03	1.75E-04	2.88E-04	3.37E-03	9.02E-03
4.52E-04	1.57E-03	3.05E-03	1.71E-04	3.30E-03	3.30E-03	1.18E-02	4.52E-04	1.57E-03	3.05E-03	1.71E-04	2.82E-04	3.30E-03	8.82E-03
4.48E-04	1.55E-03	3.01E-03	1.69E-04	3.25E-03	3.25E-03	1.17E-02	4.48E-04	1.55E-03	3.01E-03	1.69E-04	2.79E-04	3.25E-03	8.70E-03
4.41E-04	1.51E-03	2.94E-03	1.66E-04	3.18E-03	3.18E-03	1.14E-02	4.41E-04	1.51E-03	2.94E-03	1.66E-04	2.74E-04	3.18E-03	8.52E-03
4.34E-04	1.48E-03	2.87E-03	1.61E-04	3.10E-03	3.10E-03	1.11E-02	4.34E-04	1.48E-03	2.87E-03	1.61E-04	2.67E-04	3.10E-03	8.30E-03
4.29E-04	1.46E-03	2.82E-03	1.59E-04	3.05E-03	3.05E-03	1.10E-02	4.29E-04	1.46E-03	2.82E-03	1.59E-04	2.64E-04	3.05E-03	8.18E-03
4.25E-04	1.44E-03	2.79E-03	1.57E-04	3.01E-03	3.01E-03	1.08E-02	4.25E-04	1.44E-03	2.79E-03	1.57E-04	2.61E-04	3.01E-03	8.08E-03
4.18E-04	1.40E-03	2.71E-03	1.53E-04	2.93E-03	2.93E-03	1.05E-02	4.18E-04	1.40E-03	2.71E-03	1.53E-04	2.54E-04	2.93E-03	7.87E-03
4.14E-04	1.38E-03	2.67E-03	1.51E-04	2.89E-03	2.89E-03	1.04E-02	4.14E-04	1.38E-03	2.67E-03	1.51E-04	2.51E-04	2.89E-03	7.76E-03
4.10E-04	1.36E-03	2.63E-03	1.49E-04	2.84E-03	2.84E-03	1.02E-02	4.10E-04	1.36E-03	2.63E-03	1.49E-04	2.48E-04	2.84E-03	7.65E-03
4.04E-04	1.34E-03	2.58E-03	1.46E-04	2.78E-03	2.78E-03	1.00E-02	4.04E-04	1.34E-03	2.58E-03	1.46E-04	2.43E-04	2.78E-03	7.49E-03
3.98E-04	1.30E-03	2.50E-03	1.41E-04	2.70E-03	2.70E-03	9.74E-03	3.98E-04	1.30E-03	2.50E-03	1.41E-04	2.36E-04	2.70E-03	7.28E-03
3.95E-04	1.29E-03	2.47E-03	1.40E-04	2.67E-03	2.67E-03	9.65E-03	3.95E-04	1.29E-03	2.47E-03	1.40E-04	2.34E-04	2.67E-03	7.21E-03
3.95E-04	1.29E-03	2.49E-03	1.41E-04	2.68E-03	2.68E-03	9.67E-03	3.95E-04	1.29E-03	2.49E-03	1.41E-04	2.36E-04	2.68E-03	7.23E-03
3.93E-04	1.29E-03	2.48E-03	1.41E-04	2.67E-03	2.67E-03	9.64E-03	3.93E-04	1.29E-03	2.48E-03	1.41E-04	2.36E-04	2.67E-03	7.20E-03
3.91E-04	1.28E-03	2.47E-03	1.40E-04	2.65E-03	2.65E-03	9.58E-03	3.91E-04	1.28E-03	2.47E-03	1.40E-04	2.35E-04	2.65E-03	7.16E-03
3.89E-04	1.27E-03	2.46E-03	1.39E-04	2.64E-03	2.64E-03	9.53E-03	3.89E-04	1.27E-03	2.46E-03	1.39E-04	2.34E-04	2.64E-03	7.12E-03
3.88E-04	1.27E-03	2.46E-03	1.39E-04	2.63E-03	2.63E-03	9.51E-03	3.88E-04	1.27E-03	2.46E-03	1.39E-04	2.35E-04	2.63E-03	7.12E-03
3.86E-04	1.26E-03	2.44E-03	1.38E-04	2.61E-03	2.61E-03	9.44E-03	3.86E-04	1.26E-03	2.44E-03	1.38E-04	2.33E-04	2.61E-03	7.06E-03
3.83E-04	1.24E-03	2.41E-03	1.37E-04	2.58E-03	2.58E-03	9.33E-03	3.83E-04	1.24E-03	2.41E-03	1.37E-04	2.31E-04	2.58E-03	6.99E-03
3.81E-04	1.23E-03	2.39E-03	1.36E-04	2.55E-03	2.55E-03	9.25E-03	3.81E-04	1.23E-03	2.39E-03	1.36E-04	2.30E-04	2.55E-03	6.92E-03
3.78E-04	1.22E-03	2.36E-03	1.34E-04	2.52E-03	2.52E-03	9.13E-03	3.78E-04	1.22E-03	2.36E-03	1.34E-04	2.27E-04	2.52E-03	6.84E-03
3.77E-04	1.21E-03	2.36E-03	1.34E-04	2.51E-03	2.51E-03	9.10E-03	3.77E-04	1.21E-03	2.36E-03	1.34E-04	2.27E-04	2.51E-03	6.82E-03
4.81E-04	1.70E-03	3.21E-03	1.79E-04	3.54E-03	3.54E-03	1.27E-02	4.81E-04	1.70E-03	3.21E-03	1.79E-04	2.92E-04	3.54E-03	9.41E-03
4.81E-04	1.71E-03	3.24E-03	1.80E-04	3.56E-03	3.56E-03	1.27E-02	4.81E-04	1.71E-03	3.24E-03	1.80E-04	2.94E-04	3.56E-03	9.47E-03
4.77E-04	1.70E-03	3.21E-03	1.79E-04	3.52E-03	3.52E-03	1.26E-02	4.77E-04	1.70E-03	3.21E-03	1.79E-04	2.92E-04	3.52E-03	9.37E-03
4.78E-04	1.71E-03	3.22E-03	1.79E-04	3.51E-03	3.51E-03	1.26E-02	4.78E-04	1.71E-03	3.22E-03	1.79E-04	2.93E-04	3.51E-03	9.39E-03
4.75E-04	1.70E-03	3.19E-03	1.78E-04	3.48E-03	3.48E-03	1.25E-02	4.75E-04	1.70E-03	3.19E-03	1.78E-04	2.91E-04	3.48E-03	9.32E-03

4.70E-04	1.67E-03	3.15E-03	1.76E-04	3.44E-03	3.44E-03	1.23E-02	4.70E-04	1.67E-03	3.15E-03	1.76E-04	2.88E-04	3.44E-03	9.20E-03
4.64E-04	1.64E-03	3.09E-03	1.73E-04	3.37E-03	3.37E-03	1.21E-02	4.64E-04	1.64E-03	3.09E-03	1.73E-04	2.84E-04	3.37E-03	9.02E-03
4.57E-04	1.61E-03	3.04E-03	1.70E-04	3.31E-03	3.31E-03	1.19E-02	4.57E-04	1.61E-03	3.04E-03	1.70E-04	2.80E-04	3.31E-03	8.86E-03
4.50E-04	1.57E-03	2.96E-03	1.66E-04	3.22E-03	3.22E-03	1.16E-02	4.50E-04	1.57E-03	2.96E-03	1.66E-04	2.73E-04	3.22E-03	8.64E-03
4.44E-04	1.54E-03	2.90E-03	1.63E-04	3.16E-03	3.16E-03	1.14E-02	4.44E-04	1.54E-03	2.90E-03	1.63E-04	2.69E-04	3.16E-03	8.48E-03
4.40E-04	1.52E-03	2.86E-03	1.61E-04	3.11E-03	3.11E-03	1.12E-02	4.40E-04	1.52E-03	2.86E-03	1.61E-04	2.66E-04	3.11E-03	8.36E-03
4.35E-04	1.50E-03	2.82E-03	1.59E-04	3.07E-03	3.07E-03	1.11E-02	4.35E-04	1.50E-03	2.82E-03	1.59E-04	2.63E-04	3.07E-03	8.25E-03
4.30E-04	1.47E-03	2.76E-03	1.56E-04	3.01E-03	3.01E-03	1.08E-02	4.30E-04	1.47E-03	2.76E-03	1.56E-04	2.58E-04	3.01E-03	8.08E-03
4.25E-04	1.46E-03	2.73E-03	1.54E-04	2.97E-03	2.97E-03	1.07E-02	4.25E-04	1.46E-03	2.73E-03	1.54E-04	2.56E-04	2.97E-03	8.00E-03
4.18E-04	1.41E-03	2.65E-03	1.49E-04	2.88E-03	2.88E-03	1.04E-02	4.18E-04	1.41E-03	2.65E-03	1.49E-04	2.48E-04	2.88E-03	7.76E-03
4.10E-04	1.37E-03	2.57E-03	1.45E-04	2.80E-03	2.80E-03	1.01E-02	4.10E-04	1.37E-03	2.57E-03	1.45E-04	2.41E-04	2.80E-03	7.53E-03
4.04E-04	1.34E-03	2.50E-03	1.41E-04	2.73E-03	2.73E-03	9.85E-03	4.04E-04	1.34E-03	2.50E-03	1.41E-04	2.35E-04	2.73E-03	7.36E-03
4.05E-04	1.35E-03	2.53E-03	1.43E-04	2.75E-03	2.75E-03	9.92E-03	4.05E-04	1.35E-03	2.53E-03	1.43E-04	2.38E-04	2.75E-03	7.41E-03
4.04E-04	1.34E-03	2.52E-03	1.43E-04	2.74E-03	2.74E-03	9.89E-03	4.04E-04	1.34E-03	2.52E-03	1.43E-04	2.38E-04	2.74E-03	7.39E-03
4.02E-04	1.34E-03	2.52E-03	1.42E-04	2.73E-03	2.73E-03	9.85E-03	4.02E-04	1.34E-03	2.52E-03	1.42E-04	2.38E-04	2.73E-03	7.37E-03
3.98E-04	1.32E-03	2.49E-03	1.41E-04	2.69E-03	2.69E-03	9.73E-03	3.98E-04	1.32E-03	2.49E-03	1.41E-04	2.36E-04	2.69E-03	7.28E-03
3.97E-04	1.32E-03	2.49E-03	1.41E-04	2.68E-03	2.68E-03	9.71E-03	3.97E-04	1.32E-03	2.49E-03	1.41E-04	2.36E-04	2.68E-03	7.26E-03
3.96E-04	1.32E-03	2.49E-03	1.41E-04	2.68E-03	2.68E-03	9.70E-03	3.96E-04	1.32E-03	2.49E-03	1.41E-04	2.37E-04	2.68E-03	7.26E-03
3.94E-04	1.31E-03	2.47E-03	1.40E-04	2.66E-03	2.66E-03	9.64E-03	3.94E-04	1.31E-03	2.47E-03	1.40E-04	2.36E-04	2.66E-03	7.21E-03
3.93E-04	1.30E-03	2.47E-03	1.40E-04	2.65E-03	2.65E-03	9.61E-03	3.93E-04	1.30E-03	2.47E-03	1.40E-04	2.36E-04	2.65E-03	7.19E-03
3.89E-04	1.28E-03	2.43E-03	1.37E-04	2.61E-03	2.61E-03	9.44E-03	3.89E-04	1.28E-03	2.43E-03	1.37E-04	2.32E-04	2.61E-03	7.07E-03
3.85E-04	1.26E-03	2.40E-03	1.36E-04	2.58E-03	2.58E-03	9.34E-03	3.85E-04	1.26E-03	2.40E-03	1.36E-04	2.30E-04	2.58E-03	6.99E-03
3.85E-04	1.26E-03	2.40E-03	1.36E-04	2.57E-03	2.57E-03	9.31E-03	3.85E-04	1.26E-03	2.40E-03	1.36E-04	2.30E-04	2.57E-03	6.97E-03
4.97E-04	1.81E-03	3.29E-03	1.82E-04	3.66E-03	3.66E-03	1.31E-02	4.97E-04	1.81E-03	3.29E-03	1.82E-04	2.97E-04	3.66E-03	9.74E-03
4.95E-04	1.80E-03	3.28E-03	1.82E-04	3.64E-03	3.64E-03	1.30E-02	4.95E-04	1.80E-03	3.28E-03	1.82E-04	2.96E-04	3.64E-03	9.70E-03
4.94E-04	1.81E-03	3.28E-03	1.81E-04	3.62E-03	3.62E-03	1.30E-02	4.94E-04	1.81E-03	3.28E-03	1.81E-04	2.95E-04	3.62E-03	9.67E-03
4.91E-04	1.79E-03	3.26E-03	1.80E-04	3.59E-03	3.59E-03	1.29E-02	4.91E-04	1.79E-03	3.26E-03	1.80E-04	2.94E-04	3.59E-03	9.60E-03
4.87E-04	1.78E-03	3.23E-03	1.79E-04	3.56E-03	3.56E-03	1.28E-02	4.87E-04	1.78E-03	3.23E-03	1.79E-04	2.92E-04	3.56E-03	9.53E-03
4.81E-04	1.75E-03	3.18E-03	1.76E-04	3.49E-03	3.49E-03	1.26E-02	4.81E-04	1.75E-03	3.18E-03	1.76E-04	2.88E-04	3.49E-03	9.36E-03
4.75E-04	1.71E-03	3.12E-03	1.74E-04	3.43E-03	3.43E-03	1.23E-02	4.75E-04	1.71E-03	3.12E-03	1.74E-04	2.84E-04	3.43E-03	9.20E-03
4.68E-04	1.68E-03	3.06E-03	1.70E-04	3.36E-03	3.36E-03	1.21E-02	4.68E-04	1.68E-03	3.06E-03	1.70E-04	2.79E-04	3.36E-03	9.01E-03
4.60E-04	1.64E-03	2.98E-03	1.66E-04	3.27E-03	3.27E-03	1.18E-02	4.60E-04	1.64E-03	2.98E-03	1.66E-04	2.73E-04	3.27E-03	8.79E-03
4.55E-04	1.61E-03	2.93E-03	1.64E-04	3.22E-03	3.22E-03	1.16E-02	4.55E-04	1.61E-03	2.93E-03	1.64E-04	2.70E-04	3.22E-03	8.65E-03
4.51E-04	1.59E-03	2.91E-03	1.63E-04	3.18E-03	3.18E-03	1.15E-02	4.51E-04	1.59E-03	2.91E-03	1.63E-04	2.68E-04	3.18E-03	8.57E-03
4.45E-04	1.57E-03	2.86E-03	1.60E-04	3.13E-03	3.13E-03	1.13E-02	4.45E-04	1.57E-03	2.86E-03	1.60E-04	2.64E-04	3.13E-03	8.42E-03
4.40E-04	1.54E-03	2.80E-03	1.57E-04	3.07E-03	3.07E-03	1.11E-02	4.40E-04	1.54E-03	2.80E-03	1.57E-04	2.60E-04	3.07E-03	8.26E-03
4.34E-04	1.51E-03	2.75E-03	1.54E-04	3.01E-03	3.01E-03	1.09E-02	4.34E-04	1.51E-03	2.75E-03	1.54E-04	2.55E-04	3.01E-03	8.11E-03
4.21E-04	1.44E-03	2.61E-03	1.47E-04	2.87E-03	2.87E-03	1.03E-02	4.21E-04	1.44E-03	2.61E-03	1.47E-04	2.43E-04	2.87E-03	7.72E-03
4.18E-04	1.42E-03	2.58E-03	1.45E-04	2.83E-03	2.83E-03	1.02E-02	4.18E-04	1.42E-03	2.58E-03	1.45E-04	2.41E-04	2.83E-03	7.64E-03
4.13E-04	1.39E-03	2.52E-03	1.42E-04	2.77E-03	2.77E-03	1.00E-02	4.13E-04	1.39E-03	2.52E-03	1.42E-04	2.36E-04	2.77E-03	7.47E-03
4.14E-04	1.41E-03	2.57E-03	1.45E-04	2.80E-03	2.80E-03	1.01E-02	4.14E-04	1.41E-03	2.57E-03	1.45E-04	2.40E-04	2.80E-03	7.58E-03
4.12E-04	1.40E-03	2.55E-03	1.44E-04	2.79E-03	2.79E-03	1.01E-02	4.12E-04	1.40E-03	2.55E-03	1.44E-04	2.40E-04	2.79E-03	7.53E-03
4.11E-04	1.39E-03	2.55E-03	1.44E-04	2.78E-03	2.78E-03	1.01E-02	4.11E-04	1.39E-03	2.55E-03	1.44E-04	2.40E-04	2.78E-03	7.51E-03
4.08E-04	1.38E-03	2.53E-03	1.43E-04	2.76E-03	2.76E-03	9.98E-03	4.08E-04	1.38E-03	2.53E-03	1.43E-04	2.39E-04	2.76E-03	7.46E-03
4.06E-04	1.37E-03	2.53E-03	1.43E-04	2.75E-03	2.75E-03	9.95E-03	4.06E-04	1.37E-03	2.53E-03	1.43E-04	2.39E-04	2.75E-03	7.44E-03
4.04E-04	1.37E-03	2.52E-03	1.42E-04	2.73E-03	2.73E-03	9.90E-03	4.04E-04	1.37E-03	2.52E-03	1.42E-04	2.39E-04	2.73E-03	7.40E-03
4.03E-04	1.36E-03	2.51E-03	1.42E-04	2.72E-03	2.72E-03	9.86E-03	4.03E-04	1.36E-03	2.51E-03	1.42E-04	2.38E-04	2.72E-03	7.37E-03
3.99E-04	1.34E-03	2.48E-03	1.40E-04	2.68E-03	2.68E-03	9.72E-03	3.99E-04	1.34E-03	2.48E-03	1.40E-04	2.36E-04	2.68E-03	7.27E-03
3.97E-04	1.33E-03	2.46E-03	1.39E-04	2.66E-03	2.66E-03	9.63E-03	3.97E-04	1.33E-03	2.46E-03	1.39E-04	2.34E-04	2.66E-03	7.21E-03
3.94E-04	1.31E-03	2.44E-03	1.38E-04	2.63E-03	2.63E-03	9.54E-03	3.94E-04	1.31E-03	2.44E-03	1.38E-04	2.32E-04	2.63E-03	7.14E-03
3.94E-04	1.31E-03	2.45E-03	1.38E-04	2.64E-03	2.64E-03	9.57E-03	3.94E-04	1.31E-03	2.45E-03	1.38E-04	2.34E-04	2.64E-03	7.16E-03
5.12E-04	1.91E-03	3.35E-03	1.84E-04	3.75E-03	3.75E-03	1.35E-02	5.12E-04	1.91E-03	3.35E-03	1.84E-04	2.99E-04	3.75E-03	1.00E-02
5.12E-04	1.92E-03	3.35E-03	1.84E-04	3.74E-03	3.74E-03	1.34E-02	5.12E-04	1.92E-03	3.35E-03	1.84E-04	2.98E-04	3.74E-03	1.00E-02
5.07E-04	1.90E-03	3.32E-03	1.82E-04	3.70E-03	3.70E-03	1.33E-02	5.07E-04	1.90E-03	3.32E-03	1.82E-04	2.96E-04	3.70E-03	9.90E-03

5.02E-04	1.88E-03	3.28E-03	1.80E-04	3.65E-03	3.65E-03	1.31E-02	5.02E-04	1.88E-03	3.28E-03	1.80E-04	2.94E-04	3.65E-03	9.79E-03
4.97E-04	1.84E-03	3.24E-03	1.78E-04	3.59E-03	3.59E-03	1.29E-02	4.97E-04	1.84E-03	3.24E-03	1.78E-04	2.90E-04	3.59E-03	9.64E-03
4.91E-04	1.82E-03	3.20E-03	1.76E-04	3.55E-03	3.55E-03	1.28E-02	4.91E-04	1.82E-03	3.20E-03	1.76E-04	2.88E-04	3.55E-03	9.52E-03
4.85E-04	1.78E-03	3.14E-03	1.74E-04	3.48E-03	3.48E-03	1.25E-02	4.85E-04	1.78E-03	3.14E-03	1.74E-04	2.84E-04	3.48E-03	9.35E-03
4.78E-04	1.75E-03	3.08E-03	1.71E-04	3.41E-03	3.41E-03	1.23E-02	4.78E-04	1.75E-03	3.08E-03	1.71E-04	2.80E-04	3.41E-03	9.17E-03
4.72E-04	1.72E-03	3.03E-03	1.68E-04	3.35E-03	3.35E-03	1.21E-02	4.72E-04	1.72E-03	3.03E-03	1.68E-04	2.76E-04	3.35E-03	9.01E-03
4.66E-04	1.68E-03	2.97E-03	1.65E-04	3.28E-03	3.28E-03	1.18E-02	4.66E-04	1.68E-03	2.97E-03	1.65E-04	2.71E-04	3.28E-03	8.84E-03
4.61E-04	1.66E-03	2.93E-03	1.63E-04	3.24E-03	3.24E-03	1.17E-02	4.61E-04	1.66E-03	2.93E-03	1.63E-04	2.68E-04	3.24E-03	8.71E-03
4.56E-04	1.63E-03	2.89E-03	1.61E-04	3.19E-03	3.19E-03	1.15E-02	4.56E-04	1.63E-03	2.89E-03	1.61E-04	2.65E-04	3.19E-03	8.59E-03
4.49E-04	1.59E-03	2.83E-03	1.58E-04	3.11E-03	3.11E-03	1.13E-02	4.49E-04	1.59E-03	2.83E-03	1.58E-04	2.60E-04	3.11E-03	8.40E-03
4.40E-04	1.54E-03	2.73E-03	1.53E-04	3.01E-03	3.01E-03	1.09E-02	4.40E-04	1.54E-03	2.73E-03	1.53E-04	2.52E-04	3.01E-03	8.13E-03
4.33E-04	1.51E-03	2.66E-03	1.49E-04	2.94E-03	2.94E-03	1.06E-02	4.33E-04	1.51E-03	2.66E-03	1.49E-04	2.47E-04	2.94E-03	7.94E-03
4.28E-04	1.48E-03	2.62E-03	1.47E-04	2.89E-03	2.89E-03	1.04E-02	4.28E-04	1.48E-03	2.62E-03	1.47E-04	2.43E-04	2.89E-03	7.80E-03
4.24E-04	1.46E-03	2.59E-03	1.46E-04	2.86E-03	2.86E-03	1.03E-02	4.24E-04	1.46E-03	2.59E-03	1.46E-04	2.41E-04	2.86E-03	7.72E-03
4.24E-04	1.47E-03	2.61E-03	1.47E-04	2.87E-03	2.87E-03	1.04E-02	4.24E-04	1.47E-03	2.61E-03	1.47E-04	2.43E-04	2.87E-03	7.76E-03
4.21E-04	1.45E-03	2.58E-03	1.45E-04	2.83E-03	2.83E-03	1.03E-02	4.21E-04	1.45E-03	2.58E-03	1.45E-04	2.41E-04	2.83E-03	7.67E-03
4.20E-04	1.45E-03	2.59E-03	1.46E-04	2.84E-03	2.84E-03	1.03E-02	4.20E-04	1.45E-03	2.59E-03	1.46E-04	2.42E-04	2.84E-03	7.68E-03
4.17E-04	1.43E-03	2.57E-03	1.44E-04	2.81E-03	2.81E-03	1.02E-02	4.17E-04	1.43E-03	2.57E-03	1.44E-04	2.41E-04	2.81E-03	7.62E-03
4.15E-04	1.43E-03	2.56E-03	1.44E-04	2.80E-03	2.80E-03	1.01E-02	4.15E-04	1.43E-03	2.56E-03	1.44E-04	2.41E-04	2.80E-03	7.58E-03
4.14E-04	1.42E-03	2.56E-03	1.44E-04	2.79E-03	2.79E-03	1.01E-02	4.14E-04	1.42E-03	2.56E-03	1.44E-04	2.41E-04	2.79E-03	7.57E-03
4.12E-04	1.42E-03	2.56E-03	1.44E-04	2.78E-03	2.78E-03	1.01E-02	4.12E-04	1.42E-03	2.56E-03	1.44E-04	2.41E-04	2.78E-03	7.55E-03
4.08E-04	1.39E-03	2.52E-03	1.42E-04	2.74E-03	2.74E-03	9.95E-03	4.08E-04	1.39E-03	2.52E-03	1.42E-04	2.38E-04	2.74E-03	7.45E-03
4.05E-04	1.38E-03	2.49E-03	1.41E-04	2.71E-03	2.71E-03	9.84E-03	4.05E-04	1.38E-03	2.49E-03	1.41E-04	2.36E-04	2.71E-03	7.36E-03
4.02E-04	1.36E-03	2.47E-03	1.39E-04	2.68E-03	2.68E-03	9.73E-03	4.02E-04	1.36E-03	2.47E-03	1.39E-04	2.34E-04	2.68E-03	7.29E-03
4.02E-04	1.36E-03	2.48E-03	1.40E-04	2.68E-03	2.68E-03	9.75E-03	4.02E-04	1.36E-03	2.48E-03	1.40E-04	2.36E-04	2.68E-03	7.30E-03
5.30E-04	2.04E-03	3.41E-03	1.85E-04	3.85E-03	3.85E-03	1.39E-02	5.30E-04	2.04E-03	3.41E-03	1.85E-04	3.00E-04	3.85E-03	1.03E-02
5.25E-04	2.02E-03	3.38E-03	1.84E-04	3.81E-03	3.81E-03	1.37E-02	5.25E-04	2.02E-03	3.38E-03	1.84E-04	2.98E-04	3.81E-03	1.02E-02
5.22E-04	2.00E-03	3.36E-03	1.83E-04	3.78E-03	3.78E-03	1.36E-02	5.22E-04	2.00E-03	3.36E-03	1.83E-04	2.97E-04	3.78E-03	1.01E-02
5.17E-04	1.97E-03	3.32E-03	1.81E-04	3.73E-03	3.73E-03	1.35E-02	5.17E-04	1.97E-03	3.32E-03	1.81E-04	2.94E-04	3.73E-03	1.00E-02
5.09E-04	1.93E-03	3.26E-03	1.79E-04	3.66E-03	3.66E-03	1.32E-02	5.09E-04	1.93E-03	3.26E-03	1.79E-04	2.91E-04	3.66E-03	9.84E-03
5.03E-04	1.90E-03	3.22E-03	1.77E-04	3.61E-03	3.61E-03	1.30E-02	5.03E-04	1.90E-03	3.22E-03	1.77E-04	2.88E-04	3.61E-03	9.69E-03
4.96E-04	1.85E-03	3.15E-03	1.73E-04	3.53E-03	3.53E-03	1.27E-02	4.96E-04	1.85E-03	3.15E-03	1.73E-04	2.83E-04	3.53E-03	9.48E-03
4.90E-04	1.82E-03	3.11E-03	1.71E-04	3.47E-03	3.47E-03	1.25E-02	4.90E-04	1.82E-03	3.11E-03	1.71E-04	2.80E-04	3.47E-03	9.35E-03
4.81E-04	1.78E-03	3.03E-03	1.68E-04	3.38E-03	3.38E-03	1.22E-02	4.81E-04	1.78E-03	3.03E-03	1.68E-04	2.74E-04	3.38E-03	9.12E-03
4.78E-04	1.76E-03	3.01E-03	1.67E-04	3.36E-03	3.36E-03	1.21E-02	4.78E-04	1.76E-03	3.01E-03	1.67E-04	2.73E-04	3.36E-03	9.05E-03
4.72E-04	1.73E-03	2.96E-03	1.64E-04	3.30E-03	3.30E-03	1.19E-02	4.72E-04	1.73E-03	2.96E-03	1.64E-04	2.69E-04	3.30E-03	8.89E-03
4.66E-04	1.70E-03	2.92E-03	1.62E-04	3.24E-03	3.24E-03	1.17E-02	4.66E-04	1.70E-03	2.92E-03	1.62E-04	2.66E-04	3.24E-03	8.76E-03
4.59E-04	1.66E-03	2.85E-03	1.59E-04	3.17E-03	3.17E-03	1.15E-02	4.59E-04	1.66E-03	2.85E-03	1.59E-04	2.61E-04	3.17E-03	8.56E-03
4.49E-04	1.60E-03	2.75E-03	1.54E-04	3.06E-03	3.06E-03	1.11E-02	4.49E-04	1.60E-03	2.75E-03	1.54E-04	2.53E-04	3.06E-03	8.27E-03
4.39E-04	1.54E-03	2.65E-03	1.49E-04	2.95E-03	2.95E-03	1.07E-02	4.39E-04	1.54E-03	2.65E-03	1.49E-04	2.44E-04	2.95E-03	7.98E-03
4.38E-04	1.54E-03	2.65E-03	1.49E-04	2.94E-03	2.94E-03	1.07E-02	4.38E-04	1.54E-03	2.65E-03	1.49E-04	2.45E-04	2.94E-03	7.97E-03
4.34E-04	1.52E-03	2.62E-03	1.47E-04	2.91E-03	2.91E-03	1.05E-02	4.34E-04	1.52E-03	2.62E-03	1.47E-04	2.43E-04	2.91E-03	7.88E-03
4.34E-04	1.52E-03	2.64E-03	1.48E-04	2.92E-03	2.92E-03	1.06E-02	4.34E-04	1.52E-03	2.64E-03	1.48E-04	2.45E-04	2.92E-03	7.92E-03
4.30E-04	1.51E-03	2.62E-03	1.47E-04	2.89E-03	2.89E-03	1.05E-02	4.30E-04	1.51E-03	2.62E-03	1.47E-04	2.43E-04	2.89E-03	7.84E-03
4.29E-04	1.50E-03	2.62E-03	1.47E-04	2.88E-03	2.88E-03	1.05E-02	4.29E-04	1.50E-03	2.62E-03	1.47E-04	2.43E-04	2.88E-03	7.82E-03
4.26E-04	1.49E-03	2.61E-03	1.46E-04	2.87E-03	2.87E-03	1.04E-02	4.26E-04	1.49E-03	2.61E-03	1.46E-04	2.44E-04	2.87E-03	7.78E-03
4.25E-04	1.49E-03	2.61E-03	1.46E-04	2.86E-03	2.86E-03	1.04E-02	4.25E-04	1.49E-03	2.61E-03	1.46E-04	2.44E-04	2.86E-03	7.78E-03
4.23E-04	1.48E-03	2.60E-03	1.46E-04	2.85E-03	2.85E-03	1.04E-02	4.23E-04	1.48E-03	2.60E-03	1.46E-04	2.43E-04	2.85E-03	7.75E-03
4.19E-04	1.46E-03	2.58E-03	1.45E-04	2.83E-03	2.83E-03	1.03E-02	4.19E-04	1.46E-03	2.58E-03	1.45E-04	2.43E-04	2.83E-03	7.67E-03
4.17E-04	1.44E-03	2.57E-03	1.44E-04	2.81E-03	2.81E-03	1.02E-02	4.17E-04	1.44E-03	2.57E-03	1.44E-04	2.42E-04	2.81E-03	7.62E-03
4.15E-04	1.43E-03	2.54E-03	1.43E-04	2.77E-03	2.77E-03	1.01E-02	4.15E-04	1.43E-03	2.54E-03	1.43E-04	2.39E-04	2.77E-03	7.55E-03
4.11E-04	1.42E-03	2.51E-03	1.41E-04	2.74E-03	2.74E-03	9.96E-03	4.11E-04	1.42E-03	2.51E-03	1.41E-04	2.37E-04	2.74E-03	7.46E-03
4.10E-04	1.41E-03	2.51E-03	1.41E-04	2.73E-03	2.73E-03	9.93E-03	4.10E-04	1.41E-03	2.51E-03	1.41E-04	2.37E-04	2.73E-03	7.44E-03
5.45E-04	2.14E-03	3.44E-03	1.86E-04	3.93E-03	3.93E-03	1.42E-02	5.45E-04	2.14E-03	3.44E-03	1.86E-04	3.00E-04	3.93E-03	1.05E-02

5.41E-04	2.13E-03	3.42E-03	1.85E-04	3.91E-03	3.91E-03	1.41E-02	5.41E-04	2.13E-03	3.42E-03	1.85E-04	2.99E-04	3.91E-03	1.05E-02
5.35E-04	2.09E-03	3.38E-03	1.83E-04	3.85E-03	3.85E-03	1.39E-02	5.35E-04	2.09E-03	3.38E-03	1.83E-04	2.96E-04	3.85E-03	1.03E-02
5.28E-04	2.05E-03	3.33E-03	1.81E-04	3.79E-03	3.79E-03	1.37E-02	5.28E-04	2.05E-03	3.33E-03	1.81E-04	2.93E-04	3.79E-03	1.02E-02
5.21E-04	2.01E-03	3.27E-03	1.78E-04	3.71E-03	3.71E-03	1.34E-02	5.21E-04	2.01E-03	3.27E-03	1.78E-04	2.90E-04	3.71E-03	9.98E-03
5.15E-04	1.98E-03	3.24E-03	1.77E-04	3.66E-03	3.66E-03	1.32E-02	5.15E-04	1.98E-03	3.24E-03	1.77E-04	2.87E-04	3.66E-03	9.86E-03
5.07E-04	1.94E-03	3.18E-03	1.74E-04	3.59E-03	3.59E-03	1.30E-02	5.07E-04	1.94E-03	3.18E-03	1.74E-04	2.83E-04	3.59E-03	9.67E-03
5.02E-04	1.91E-03	3.14E-03	1.72E-04	3.54E-03	3.54E-03	1.28E-02	5.02E-04	1.91E-03	3.14E-03	1.72E-04	2.81E-04	3.54E-03	9.54E-03
4.97E-04	1.88E-03	3.11E-03	1.71E-04	3.50E-03	3.50E-03	1.27E-02	4.97E-04	1.88E-03	3.11E-03	1.71E-04	2.79E-04	3.50E-03	9.44E-03
4.89E-04	1.83E-03	3.04E-03	1.67E-04	3.41E-03	3.41E-03	1.24E-02	4.89E-04	1.83E-03	3.04E-03	1.67E-04	2.74E-04	3.41E-03	9.22E-03
4.82E-04	1.79E-03	2.98E-03	1.65E-04	3.34E-03	3.34E-03	1.21E-02	4.82E-04	1.79E-03	2.98E-03	1.65E-04	2.69E-04	3.34E-03	9.04E-03
4.77E-04	1.77E-03	2.95E-03	1.63E-04	3.30E-03	3.30E-03	1.19E-02	4.77E-04	1.77E-03	2.95E-03	1.63E-04	2.67E-04	3.30E-03	8.92E-03
4.69E-04	1.72E-03	2.87E-03	1.59E-04	3.21E-03	3.21E-03	1.17E-02	4.69E-04	1.72E-03	2.87E-03	1.59E-04	2.61E-04	3.21E-03	8.70E-03
4.58E-04	1.66E-03	2.78E-03	1.55E-04	3.10E-03	3.10E-03	1.13E-02	4.58E-04	1.66E-03	2.78E-03	1.55E-04	2.54E-04	3.10E-03	8.40E-03
4.49E-04	1.61E-03	2.69E-03	1.50E-04	3.01E-03	3.01E-03	1.09E-02	4.49E-04	1.61E-03	2.69E-03	1.50E-04	2.46E-04	3.01E-03	8.14E-03
4.47E-04	1.60E-03	2.68E-03	1.49E-04	2.99E-03	2.99E-03	1.09E-02	4.47E-04	1.60E-03	2.68E-03	1.49E-04	2.46E-04	2.99E-03	8.11E-03
4.44E-04	1.58E-03	2.66E-03	1.49E-04	2.97E-03	2.97E-03	1.08E-02	4.44E-04	1.58E-03	2.66E-03	1.49E-04	2.45E-04	2.97E-03	8.05E-03
4.44E-04	1.59E-03	2.68E-03	1.49E-04	2.98E-03	2.98E-03	1.08E-02	4.44E-04	1.59E-03	2.68E-03	1.49E-04	2.47E-04	2.98E-03	8.08E-03
4.41E-04	1.57E-03	2.67E-03	1.49E-04	2.96E-03	2.96E-03	1.07E-02	4.41E-04	1.57E-03	2.67E-03	1.49E-04	2.46E-04	2.96E-03	8.03E-03
4.38E-04	1.56E-03	2.65E-03	1.48E-04	2.94E-03	2.94E-03	1.07E-02	4.38E-04	1.56E-03	2.65E-03	1.48E-04	2.45E-04	2.94E-03	7.98E-03
4.36E-04	1.55E-03	2.64E-03	1.48E-04	2.92E-03	2.92E-03	1.06E-02	4.36E-04	1.55E-03	2.64E-03	1.48E-04	2.45E-04	2.92E-03	7.95E-03
4.34E-04	1.54E-03	2.63E-03	1.47E-04	2.91E-03	2.91E-03	1.06E-02	4.34E-04	1.54E-03	2.63E-03	1.47E-04	2.44E-04	2.91E-03	7.90E-03
4.34E-04	1.54E-03	2.65E-03	1.48E-04	2.91E-03	2.91E-03	1.06E-02	4.34E-04	1.54E-03	2.65E-03	1.48E-04	2.46E-04	2.91E-03	7.93E-03
4.31E-04	1.53E-03	2.64E-03	1.47E-04	2.90E-03	2.90E-03	1.05E-02	4.31E-04	1.53E-03	2.64E-03	1.47E-04	2.45E-04	2.90E-03	7.89E-03
4.28E-04	1.51E-03	2.61E-03	1.45E-04	2.86E-03	2.86E-03	1.04E-02	4.28E-04	1.51E-03	2.61E-03	1.45E-04	2.43E-04	2.86E-03	7.79E-03
4.24E-04	1.49E-03	2.58E-03	1.44E-04	2.83E-03	2.83E-03	1.03E-02	4.24E-04	1.49E-03	2.58E-03	1.44E-04	2.41E-04	2.83E-03	7.71E-03
4.21E-04	1.48E-03	2.56E-03	1.43E-04	2.81E-03	2.81E-03	1.02E-02	4.21E-04	1.48E-03	2.56E-03	1.43E-04	2.40E-04	2.81E-03	7.65E-03
4.19E-04	1.46E-03	2.55E-03	1.42E-04	2.78E-03	2.78E-03	1.01E-02	4.19E-04	1.46E-03	2.55E-03	1.42E-04	2.39E-04	2.78E-03	7.59E-03
5.60E-04	2.25E-03	3.46E-03	1.85E-04	4.01E-03	4.01E-03	1.45E-02	5.60E-04	2.25E-03	3.46E-03	1.85E-04	2.99E-04	4.01E-03	1.08E-02
5.55E-04	2.23E-03	3.43E-03	1.84E-04	3.97E-03	3.97E-03	1.43E-02	5.55E-04	2.23E-03	3.43E-03	1.84E-04	2.98E-04	3.97E-03	1.07E-02
5.49E-04	2.19E-03	3.40E-03	1.83E-04	3.92E-03	3.92E-03	1.42E-02	5.49E-04	2.19E-03	3.40E-03	1.83E-04	2.96E-04	3.92E-03	1.05E-02
5.41E-04	2.14E-03	3.34E-03	1.80E-04	3.85E-03	3.85E-03	1.39E-02	5.41E-04	2.14E-03	3.34E-03	1.80E-04	2.92E-04	3.85E-03	1.03E-02
5.35E-04	2.11E-03	3.31E-03	1.79E-04	3.79E-03	3.79E-03	1.37E-02	5.35E-04	2.11E-03	3.31E-03	1.79E-04	2.90E-04	3.79E-03	1.02E-02
5.27E-04	2.06E-03	3.25E-03	1.76E-04	3.71E-03	3.71E-03	1.34E-02	5.27E-04	2.06E-03	3.25E-03	1.76E-04	2.86E-04	3.71E-03	1.00E-02
5.20E-04	2.02E-03	3.20E-03	1.74E-04	3.65E-03	3.65E-03	1.32E-02	5.20E-04	2.02E-03	3.20E-03	1.74E-04	2.83E-04	3.65E-03	9.85E-03
5.14E-04	1.99E-03	3.16E-03	1.72E-04	3.60E-03	3.60E-03	1.30E-02	5.14E-04	1.99E-03	3.16E-03	1.72E-04	2.81E-04	3.60E-03	9.72E-03
5.08E-04	1.96E-03	3.13E-03	1.70E-04	3.55E-03	3.55E-03	1.29E-02	5.08E-04	1.96E-03	3.13E-03	1.70E-04	2.78E-04	3.55E-03	9.59E-03
5.00E-04	1.91E-03	3.06E-03	1.67E-04	3.47E-03	3.47E-03	1.26E-02	5.00E-04	1.91E-03	3.06E-03	1.67E-04	2.74E-04	3.47E-03	9.38E-03
4.93E-04	1.87E-03	3.01E-03	1.65E-04	3.40E-03	3.40E-03	1.23E-02	4.93E-04	1.87E-03	3.01E-03	1.65E-04	2.70E-04	3.40E-03	9.21E-03
4.85E-04	1.82E-03	2.95E-03	1.62E-04	3.32E-03	3.32E-03	1.21E-02	4.85E-04	1.82E-03	2.95E-03	1.62E-04	2.66E-04	3.32E-03	9.00E-03
4.77E-04	1.77E-03	2.87E-03	1.59E-04	3.24E-03	3.24E-03	1.17E-02	4.77E-04	1.77E-03	2.87E-03	1.59E-04	2.60E-04	3.24E-03	8.77E-03
4.68E-04	1.72E-03	2.79E-03	1.55E-04	3.14E-03	3.14E-03	1.14E-02	4.68E-04	1.72E-03	2.79E-03	1.55E-04	2.54E-04	3.14E-03	8.52E-03
4.56E-04	1.65E-03	2.68E-03	1.49E-04	3.02E-03	3.02E-03	1.10E-02	4.56E-04	1.65E-03	2.68E-03	1.49E-04	2.45E-04	3.02E-03	8.19E-03
4.58E-04	1.66E-03	2.72E-03	1.51E-04	3.05E-03	3.05E-03	1.11E-02	4.58E-04	1.66E-03	2.72E-03	1.51E-04	2.48E-04	3.05E-03	8.29E-03
4.56E-04	1.66E-03	2.72E-03	1.51E-04	3.04E-03	3.04E-03	1.11E-02	4.56E-04	1.66E-03	2.72E-03	1.51E-04	2.48E-04	3.04E-03	8.27E-03
4.54E-04	1.65E-03	2.71E-03	1.50E-04	3.03E-03	3.03E-03	1.10E-02	4.54E-04	1.65E-03	2.71E-03	1.50E-04	2.48E-04	3.03E-03	8.24E-03
4.50E-04	1.63E-03	2.69E-03	1.49E-04	3.00E-03	3.00E-03	1.09E-02	4.50E-04	1.63E-03	2.69E-03	1.49E-04	2.46E-04	3.00E-03	8.16E-03
4.49E-04	1.62E-03	2.69E-03	1.49E-04	2.99E-03	2.99E-03	1.09E-02	4.49E-04	1.62E-03	2.69E-03	1.49E-04	2.47E-04	2.99E-03	8.14E-03
4.47E-04	1.61E-03	2.68E-03	1.49E-04	2.98E-03	2.98E-03	1.08E-02	4.47E-04	1.61E-03	2.68E-03	1.49E-04	2.46E-04	2.98E-03	8.10E-03
4.44E-04	1.60E-03	2.67E-03	1.48E-04	2.97E-03	2.97E-03	1.08E-02	4.44E-04	1.60E-03	2.67E-03	1.48E-04	2.46E-04	2.97E-03	8.08E-03
4.43E-04	1.60E-03	2.68E-03	1.49E-04	2.97E-03	2.97E-03	1.08E-02	4.43E-04	1.60E-03	2.68E-03	1.49E-04	2.47E-04	2.97E-03	8.09E-03
4.41E-04	1.59E-03	2.67E-03	1.48E-04	2.95E-03	2.95E-03	1.07E-02	4.41E-04	1.59E-03	2.67E-03	1.48E-04	2.46E-04	2.95E-03	8.04E-03
4.38E-04	1.57E-03	2.65E-03	1.47E-04	2.93E-03	2.93E-03	1.07E-02	4.38E-04	1.57E-03	2.65E-03	1.47E-04	2.45E-04	2.93E-03	7.98E-03
4.34E-04	1.55E-03	2.62E-03	1.45E-04	2.88E-03	2.88E-03	1.05E-02	4.34E-04	1.55E-03	2.62E-03	1.45E-04	2.43E-04	2.88E-03	7.87E-03
4.30E-04	1.53E-03	2.59E-03	1.44E-04	2.85E-03	2.85E-03	1.04E-02	4.30E-04	1.53E-03	2.59E-03	1.44E-04	2.41E-04	2.85E-03	7.79E-03

4.28E-04	1.51E-03	2.58E-03	1.43E-04	2.83E-03	2.83E-03	1.03E-02	4.28E-04	1.51E-03	2.58E-03	1.43E-04	2.40E-04	2.83E-03	7.73E-03
5.76E-04	2.37E-03	3.48E-03	1.85E-04	4.09E-03	4.09E-03	1.48E-02	5.76E-04	2.37E-03	3.48E-03	1.85E-04	2.98E-04	4.09E-03	1.10E-02
5.69E-04	2.33E-03	3.44E-03	1.83E-04	4.04E-03	4.04E-03	1.46E-02	5.69E-04	2.33E-03	3.44E-03	1.83E-04	2.96E-04	4.04E-03	1.09E-02
5.60E-04	2.27E-03	3.39E-03	1.81E-04	3.96E-03	3.96E-03	1.43E-02	5.60E-04	2.27E-03	3.39E-03	1.81E-04	2.93E-04	3.96E-03	1.07E-02
5.55E-04	2.24E-03	3.35E-03	1.80E-04	3.90E-03	3.90E-03	1.41E-02	5.55E-04	2.24E-03	3.35E-03	1.80E-04	2.91E-04	3.90E-03	1.05E-02
5.45E-04	2.18E-03	3.29E-03	1.77E-04	3.82E-03	3.82E-03	1.38E-02	5.45E-04	2.18E-03	3.29E-03	1.77E-04	2.87E-04	3.82E-03	1.03E-02
5.38E-04	2.14E-03	3.26E-03	1.75E-04	3.77E-03	3.77E-03	1.36E-02	5.38E-04	2.14E-03	3.26E-03	1.75E-04	2.85E-04	3.77E-03	1.02E-02
5.31E-04	2.10E-03	3.21E-03	1.73E-04	3.70E-03	3.70E-03	1.34E-02	5.31E-04	2.10E-03	3.21E-03	1.73E-04	2.82E-04	3.70E-03	9.99E-03
5.26E-04	2.07E-03	3.18E-03	1.72E-04	3.66E-03	3.66E-03	1.33E-02	5.26E-04	2.07E-03	3.18E-03	1.72E-04	2.80E-04	3.66E-03	9.89E-03
5.20E-04	2.04E-03	3.14E-03	1.70E-04	3.60E-03	3.60E-03	1.31E-02	5.20E-04	2.04E-03	3.14E-03	1.70E-04	2.78E-04	3.60E-03	9.75E-03
5.07E-04	1.95E-03	3.04E-03	1.66E-04	3.48E-03	3.48E-03	1.26E-02	5.07E-04	1.95E-03	3.04E-03	1.66E-04	2.72E-04	3.48E-03	9.42E-03
5.05E-04	1.94E-03	3.03E-03	1.65E-04	3.46E-03	3.46E-03	1.26E-02	5.05E-04	1.94E-03	3.03E-03	1.65E-04	2.70E-04	3.46E-03	9.37E-03
4.92E-04	1.87E-03	2.94E-03	1.61E-04	3.35E-03	3.35E-03	1.22E-02	4.92E-04	1.87E-03	2.94E-03	1.61E-04	2.65E-04	3.35E-03	9.08E-03
4.85E-04	1.82E-03	2.86E-03	1.58E-04	3.26E-03	3.26E-03	1.18E-02	4.85E-04	1.82E-03	2.86E-03	1.58E-04	2.58E-04	3.26E-03	8.84E-03
4.79E-04	1.79E-03	2.82E-03	1.56E-04	3.21E-03	3.21E-03	1.17E-02	4.79E-04	1.79E-03	2.82E-03	1.56E-04	2.55E-04	3.21E-03	8.71E-03
4.73E-04	1.75E-03	2.77E-03	1.53E-04	3.15E-03	3.15E-03	1.14E-02	4.73E-04	1.75E-03	2.77E-03	1.53E-04	2.52E-04	3.15E-03	8.55E-03
4.71E-04	1.75E-03	2.78E-03	1.53E-04	3.14E-03	3.14E-03	1.14E-02	4.71E-04	1.75E-03	2.78E-03	1.53E-04	2.52E-04	3.14E-03	8.54E-03
4.68E-04	1.73E-03	2.76E-03	1.52E-04	3.11E-03	3.11E-03	1.13E-02	4.68E-04	1.73E-03	2.76E-03	1.52E-04	2.51E-04	3.11E-03	8.47E-03
4.65E-04	1.71E-03	2.75E-03	1.52E-04	3.10E-03	3.10E-03	1.13E-02	4.65E-04	1.71E-03	2.75E-03	1.52E-04	2.50E-04	3.10E-03	8.43E-03
4.62E-04	1.70E-03	2.73E-03	1.51E-04	3.07E-03	3.07E-03	1.12E-02	4.62E-04	1.70E-03	2.73E-03	1.51E-04	2.49E-04	3.07E-03	8.35E-03
4.58E-04	1.68E-03	2.72E-03	1.51E-04	3.05E-03	3.05E-03	1.11E-02	4.58E-04	1.68E-03	2.72E-03	1.51E-04	2.49E-04	3.05E-03	8.31E-03
4.57E-04	1.68E-03	2.72E-03	1.50E-04	3.05E-03	3.05E-03	1.11E-02	4.57E-04	1.68E-03	2.72E-03	1.50E-04	2.48E-04	3.05E-03	8.30E-03
4.55E-04	1.66E-03	2.71E-03	1.50E-04	3.03E-03	3.03E-03	1.10E-02	4.55E-04	1.66E-03	2.71E-03	1.50E-04	2.48E-04	3.03E-03	8.25E-03
4.54E-04	1.66E-03	2.71E-03	1.50E-04	3.03E-03	3.03E-03	1.10E-02	4.54E-04	1.66E-03	2.71E-03	1.50E-04	2.48E-04	3.03E-03	8.25E-03
4.51E-04	1.65E-03	2.70E-03	1.49E-04	3.00E-03	3.00E-03	1.10E-02	4.51E-04	1.65E-03	2.70E-03	1.49E-04	2.47E-04	3.00E-03	8.20E-03
4.47E-04	1.62E-03	2.67E-03	1.47E-04	2.96E-03	2.96E-03	1.08E-02	4.47E-04	1.62E-03	2.67E-03	1.47E-04	2.45E-04	2.96E-03	8.09E-03
4.43E-04	1.60E-03	2.65E-03	1.46E-04	2.93E-03	2.93E-03	1.07E-02	4.43E-04	1.60E-03	2.65E-03	1.46E-04	2.44E-04	2.93E-03	8.02E-03
4.39E-04	1.58E-03	2.62E-03	1.45E-04	2.90E-03	2.90E-03	1.06E-02	4.39E-04	1.58E-03	2.62E-03	1.45E-04	2.41E-04	2.90E-03	7.92E-03
4.36E-04	1.56E-03	2.60E-03	1.44E-04	2.87E-03	2.87E-03	1.05E-02	4.36E-04	1.56E-03	2.60E-03	1.44E-04	2.40E-04	2.87E-03	7.85E-03
5.91E-04	2.48E-03	3.49E-03	1.84E-04	4.17E-03	4.17E-03	1.51E-02	5.91E-04	2.48E-03	3.49E-03	1.84E-04	2.96E-04	4.17E-03	1.12E-02
5.84E-04	2.44E-03	3.45E-03	1.82E-04	4.10E-03	4.10E-03	1.49E-02	5.84E-04	2.44E-03	3.45E-03	1.82E-04	2.94E-04	4.10E-03	1.10E-02
5.75E-04	2.38E-03	3.40E-03	1.80E-04	4.03E-03	4.03E-03	1.46E-02	5.75E-04	2.38E-03	3.40E-03	1.80E-04	2.91E-04	4.03E-03	1.08E-02
5.66E-04	2.32E-03	3.35E-03	1.78E-04	3.95E-03	3.95E-03	1.43E-02	5.66E-04	2.32E-03	3.35E-03	1.78E-04	2.89E-04	3.95E-03	1.06E-02
5.58E-04	2.27E-03	3.30E-03	1.76E-04	3.88E-03	3.88E-03	1.41E-02	5.58E-04	2.27E-03	3.30E-03	1.76E-04	2.86E-04	3.88E-03	1.05E-02
5.52E-04	2.23E-03	3.26E-03	1.75E-04	3.82E-03	3.82E-03	1.39E-02	5.52E-04	2.23E-03	3.26E-03	1.75E-04	2.84E-04	3.82E-03	1.03E-02
5.45E-04	2.19E-03	3.22E-03	1.73E-04	3.76E-03	3.76E-03	1.37E-02	5.45E-04	2.19E-03	3.22E-03	1.73E-04	2.81E-04	3.76E-03	1.02E-02
5.38E-04	2.15E-03	3.18E-03	1.71E-04	3.71E-03	3.71E-03	1.35E-02	5.38E-04	2.15E-03	3.18E-03	1.71E-04	2.79E-04	3.71E-03	1.00E-02
5.30E-04	2.10E-03	3.14E-03	1.69E-04	3.64E-03	3.64E-03	1.32E-02	5.30E-04	2.10E-03	3.14E-03	1.69E-04	2.76E-04	3.64E-03	9.85E-03
5.23E-04	2.06E-03	3.09E-03	1.67E-04	3.58E-03	3.58E-03	1.30E-02	5.23E-04	2.06E-03	3.09E-03	1.67E-04	2.73E-04	3.58E-03	9.69E-03
5.14E-04	2.01E-03	3.03E-03	1.64E-04	3.49E-03	3.49E-03	1.27E-02	5.14E-04	2.01E-03	3.03E-03	1.64E-04	2.69E-04	3.49E-03	9.48E-03
5.03E-04	1.93E-03	2.94E-03	1.61E-04	3.38E-03	3.38E-03	1.23E-02	5.03E-04	1.93E-03	2.94E-03	1.61E-04	2.63E-04	3.38E-03	9.19E-03
4.97E-04	1.90E-03	2.90E-03	1.59E-04	3.33E-03	3.33E-03	1.21E-02	4.97E-04	1.90E-03	2.90E-03	1.59E-04	2.60E-04	3.33E-03	9.04E-03
4.86E-04	1.83E-03	2.81E-03	1.55E-04	3.22E-03	3.22E-03	1.17E-02	4.86E-04	1.83E-03	2.81E-03	1.55E-04	2.54E-04	3.22E-03	8.75E-03
4.81E-04	1.80E-03	2.78E-03	1.53E-04	3.17E-03	3.17E-03	1.16E-02	4.81E-04	1.80E-03	2.78E-03	1.53E-04	2.51E-04	3.17E-03	8.63E-03
4.82E-04	1.81E-03	2.82E-03	1.55E-04	3.21E-03	3.21E-03	1.17E-02	4.82E-04	1.81E-03	2.82E-03	1.55E-04	2.55E-04	3.21E-03	8.73E-03
4.77E-04	1.78E-03	2.77E-03	1.53E-04	3.15E-03	3.15E-03	1.15E-02	4.77E-04	1.78E-03	2.77E-03	1.53E-04	2.51E-04	3.15E-03	8.58E-03
4.74E-04	1.77E-03	2.76E-03	1.52E-04	3.14E-03	3.14E-03	1.14E-02	4.74E-04	1.77E-03	2.76E-03	1.52E-04	2.50E-04	3.14E-03	8.55E-03
4.74E-04	1.77E-03	2.77E-03	1.52E-04	3.14E-03	3.14E-03	1.14E-02	4.74E-04	1.77E-03	2.77E-03	1.52E-04	2.51E-04	3.14E-03	8.56E-03
4.72E-04	1.76E-03	2.77E-03	1.52E-04	3.13E-03	3.13E-03	1.14E-02	4.72E-04	1.76E-03	2.77E-03	1.52E-04	2.51E-04	3.13E-03	8.54E-03
4.67E-04	1.73E-03	2.74E-03	1.51E-04	3.09E-03	3.09E-03	1.13E-02	4.67E-04	1.73E-03	2.74E-03	1.51E-04	2.49E-04	3.09E-03	8.43E-03
4.66E-04	1.73E-03	2.74E-03	1.51E-04	3.08E-03	3.08E-03	1.13E-02	4.66E-04	1.73E-03	2.74E-03	1.51E-04	2.49E-04	3.08E-03	8.42E-03
4.63E-04	1.71E-03	2.73E-03	1.50E-04	3.07E-03	3.07E-03	1.12E-02	4.63E-04	1.71E-03	2.73E-03	1.50E-04	2.48E-04	3.07E-03	8.38E-03
4.61E-04	1.70E-03	2.73E-03	1.50E-04	3.06E-03	3.06E-03	1.12E-02	4.61E-04	1.70E-03	2.73E-03	1.50E-04	2.48E-04	3.06E-03	8.35E-03
4.57E-04	1.68E-03	2.70E-03	1.48E-04	3.02E-03	3.02E-03	1.10E-02	4.57E-04	1.68E-03	2.70E-03	1.48E-04	2.46E-04	3.02E-03	8.25E-03

4.51E-04	1.65E-03	2.66E-03	1.46E-04	2.96E-03	2.96E-03	1.08E-02	4.51E-04	1.65E-03	2.66E-03	1.46E-04	2.43E-04	2.96E-03	8.11E-03
4.48E-04	1.63E-03	2.64E-03	1.45E-04	2.94E-03	2.94E-03	1.07E-02	4.48E-04	1.63E-03	2.64E-03	1.45E-04	2.42E-04	2.94E-03	8.04E-03
4.44E-04	1.61E-03	2.62E-03	1.44E-04	2.91E-03	2.91E-03	1.06E-02	4.44E-04	1.61E-03	2.62E-03	1.44E-04	2.40E-04	2.91E-03	7.97E-03
6.05E-04	2.59E-03	3.47E-03	1.83E-04	4.22E-03	4.22E-03	1.53E-02	6.05E-04	2.59E-03	3.47E-03	1.83E-04	2.93E-04	4.22E-03	1.14E-02
5.98E-04	2.54E-03	3.44E-03	1.81E-04	4.16E-03	4.16E-03	1.51E-02	5.98E-04	2.54E-03	3.44E-03	1.81E-04	2.91E-04	4.16E-03	1.12E-02
5.87E-04	2.47E-03	3.38E-03	1.79E-04	4.07E-03	4.07E-03	1.48E-02	5.87E-04	2.47E-03	3.38E-03	1.79E-04	2.88E-04	4.07E-03	1.10E-02
5.79E-04	2.41E-03	3.34E-03	1.77E-04	3.99E-03	3.99E-03	1.45E-02	5.79E-04	2.41E-03	3.34E-03	1.77E-04	2.86E-04	3.99E-03	1.08E-02
5.70E-04	2.36E-03	3.30E-03	1.75E-04	3.93E-03	3.93E-03	1.43E-02	5.70E-04	2.36E-03	3.30E-03	1.75E-04	2.84E-04	3.93E-03	1.06E-02
5.64E-04	2.32E-03	3.27E-03	1.74E-04	3.88E-03	3.88E-03	1.41E-02	5.64E-04	2.32E-03	3.27E-03	1.74E-04	2.82E-04	3.88E-03	1.05E-02
5.57E-04	2.28E-03	3.23E-03	1.72E-04	3.82E-03	3.82E-03	1.39E-02	5.57E-04	2.28E-03	3.23E-03	1.72E-04	2.80E-04	3.82E-03	1.03E-02
5.50E-04	2.23E-03	3.19E-03	1.70E-04	3.76E-03	3.76E-03	1.37E-02	5.50E-04	2.23E-03	3.19E-03	1.70E-04	2.78E-04	3.76E-03	1.02E-02
5.41E-04	2.18E-03	3.14E-03	1.68E-04	3.69E-03	3.69E-03	1.34E-02	5.41E-04	2.18E-03	3.14E-03	1.68E-04	2.75E-04	3.69E-03	9.99E-03
5.30E-04	2.11E-03	3.07E-03	1.66E-04	3.59E-03	3.59E-03	1.31E-02	5.30E-04	2.11E-03	3.07E-03	1.66E-04	2.71E-04	3.59E-03	9.74E-03
5.19E-04	2.03E-03	2.98E-03	1.62E-04	3.48E-03	3.48E-03	1.27E-02	5.19E-04	2.03E-03	2.98E-03	1.62E-04	2.65E-04	3.48E-03	9.44E-03
5.13E-04	2.00E-03	2.95E-03	1.60E-04	3.43E-03	3.43E-03	1.25E-02	5.13E-04	2.00E-03	2.95E-03	1.60E-04	2.62E-04	3.43E-03	9.31E-03
5.09E-04	1.97E-03	2.93E-03	1.59E-04	3.39E-03	3.39E-03	1.24E-02	5.09E-04	1.97E-03	2.93E-03	1.59E-04	2.61E-04	3.39E-03	9.22E-03
5.02E-04	1.94E-03	2.89E-03	1.57E-04	3.34E-03	3.34E-03	1.22E-02	5.02E-04	1.94E-03	2.89E-03	1.57E-04	2.58E-04	3.34E-03	9.08E-03
4.98E-04	1.91E-03	2.86E-03	1.56E-04	3.30E-03	3.30E-03	1.20E-02	4.98E-04	1.91E-03	2.86E-03	1.56E-04	2.56E-04	3.30E-03	8.97E-03
4.98E-04	1.91E-03	2.87E-03	1.56E-04	3.31E-03	3.31E-03	1.21E-02	4.98E-04	1.91E-03	2.87E-03	1.56E-04	2.57E-04	3.31E-03	9.01E-03
4.92E-04	1.88E-03	2.84E-03	1.55E-04	3.26E-03	3.26E-03	1.19E-02	4.92E-04	1.88E-03	2.84E-03	1.55E-04	2.55E-04	3.26E-03	8.89E-03
4.89E-04	1.86E-03	2.83E-03	1.54E-04	3.24E-03	3.24E-03	1.18E-02	4.89E-04	1.86E-03	2.83E-03	1.54E-04	2.54E-04	3.24E-03	8.83E-03
4.86E-04	1.84E-03	2.81E-03	1.53E-04	3.21E-03	3.21E-03	1.17E-02	4.86E-04	1.84E-03	2.81E-03	1.53E-04	2.53E-04	3.21E-03	8.76E-03
4.83E-04	1.83E-03	2.81E-03	1.53E-04	3.20E-03	3.20E-03	1.17E-02	4.83E-04	1.83E-03	2.81E-03	1.53E-04	2.52E-04	3.20E-03	8.73E-03
4.79E-04	1.81E-03	2.78E-03	1.52E-04	3.16E-03	3.16E-03	1.15E-02	4.79E-04	1.81E-03	2.78E-03	1.52E-04	2.50E-04	3.16E-03	8.63E-03
4.76E-04	1.79E-03	2.77E-03	1.51E-04	3.14E-03	3.14E-03	1.15E-02	4.76E-04	1.79E-03	2.77E-03	1.51E-04	2.49E-04	3.14E-03	8.57E-03
4.74E-04	1.78E-03	2.76E-03	1.51E-04	3.12E-03	3.12E-03	1.14E-02	4.74E-04	1.78E-03	2.76E-03	1.51E-04	2.49E-04	3.12E-03	8.53E-03
4.72E-04	1.77E-03	2.76E-03	1.51E-04	3.12E-03	3.12E-03	1.14E-02	4.72E-04	1.77E-03	2.76E-03	1.51E-04	2.49E-04	3.12E-03	8.52E-03
4.66E-04	1.74E-03	2.72E-03	1.49E-04	3.07E-03	3.07E-03	1.12E-02	4.66E-04	1.74E-03	2.72E-03	1.49E-04	2.46E-04	3.07E-03	8.39E-03
4.62E-04	1.71E-03	2.70E-03	1.47E-04	3.03E-03	3.03E-03	1.11E-02	4.62E-04	1.71E-03	2.70E-03	1.47E-04	2.45E-04	3.03E-03	8.29E-03
4.59E-04	1.69E-03	2.68E-03	1.47E-04	3.00E-03	3.00E-03	1.10E-02	4.59E-04	1.69E-03	2.68E-03	1.47E-04	2.43E-04	3.00E-03	8.22E-03
4.54E-04	1.66E-03	2.64E-03	1.45E-04	2.95E-03	2.95E-03	1.08E-02	4.54E-04	1.66E-03	2.64E-03	1.45E-04	2.41E-04	2.95E-03	8.09E-03
6.21E-04	2.71E-03	3.47E-03	1.81E-04	4.29E-03	4.29E-03	1.56E-02	6.21E-04	2.71E-03	3.47E-03	1.81E-04	2.90E-04	4.29E-03	1.16E-02
6.10E-04	2.63E-03	3.42E-03	1.79E-04	4.20E-03	4.20E-03	1.52E-02	6.10E-04	2.63E-03	3.42E-03	1.79E-04	2.88E-04	4.20E-03	1.13E-02
6.00E-04	2.56E-03	3.37E-03	1.77E-04	4.11E-03	4.11E-03	1.49E-02	6.00E-04	2.56E-03	3.37E-03	1.77E-04	2.85E-04	4.11E-03	1.11E-02
5.91E-04	2.50E-03	3.33E-03	1.75E-04	4.04E-03	4.04E-03	1.47E-02	5.91E-04	2.50E-03	3.33E-03	1.75E-04	2.83E-04	4.04E-03	1.09E-02
5.85E-04	2.46E-03	3.30E-03	1.74E-04	4.00E-03	4.00E-03	1.45E-02	5.85E-04	2.46E-03	3.30E-03	1.74E-04	2.82E-04	4.00E-03	1.08E-02
5.79E-04	2.42E-03	3.27E-03	1.73E-04	3.94E-03	3.94E-03	1.43E-02	5.79E-04	2.42E-03	3.27E-03	1.73E-04	2.80E-04	3.94E-03	1.07E-02
5.70E-04	2.37E-03	3.23E-03	1.71E-04	3.87E-03	3.87E-03	1.41E-02	5.70E-04	2.37E-03	3.23E-03	1.71E-04	2.78E-04	3.87E-03	1.05E-02
5.65E-04	2.33E-03	3.20E-03	1.70E-04	3.83E-03	3.83E-03	1.39E-02	5.65E-04	2.33E-03	3.20E-03	1.70E-04	2.76E-04	3.83E-03	1.04E-02
5.57E-04	2.28E-03	3.16E-03	1.68E-04	3.77E-03	3.77E-03	1.37E-02	5.57E-04	2.28E-03	3.16E-03	1.68E-04	2.74E-04	3.77E-03	1.02E-02
5.44E-04	2.20E-03	3.10E-03	1.66E-04	3.67E-03	3.67E-03	1.33E-02	5.44E-04	2.20E-03	3.10E-03	1.66E-04	2.71E-04	3.67E-03	9.94E-03
5.37E-04	2.15E-03	3.04E-03	1.63E-04	3.59E-03	3.59E-03	1.31E-02	5.37E-04	2.15E-03	3.04E-03	1.63E-04	2.67E-04	3.59E-03	9.76E-03
5.27E-04	2.09E-03	2.98E-03	1.61E-04	3.50E-03	3.50E-03	1.28E-02	5.27E-04	2.09E-03	2.98E-03	1.61E-04	2.63E-04	3.50E-03	9.52E-03
5.19E-04	2.04E-03	2.94E-03	1.59E-04	3.44E-03	3.44E-03	1.25E-02	5.19E-04	2.04E-03	2.94E-03	1.59E-04	2.61E-04	3.44E-03	9.35E-03
5.15E-04	2.02E-03	2.92E-03	1.58E-04	3.41E-03	3.41E-03	1.24E-02	5.15E-04	2.02E-03	2.92E-03	1.58E-04	2.59E-04	3.41E-03	9.27E-03
5.12E-04	2.00E-03	2.90E-03	1.57E-04	3.38E-03	3.38E-03	1.23E-02	5.12E-04	2.00E-03	2.90E-03	1.57E-04	2.58E-04	3.38E-03	9.20E-03
5.07E-04	1.97E-03	2.89E-03	1.57E-04	3.36E-03	3.36E-03	1.22E-02	5.07E-04	1.97E-03	2.89E-03	1.57E-04	2.58E-04	3.36E-03	9.14E-03
5.02E-04	1.94E-03	2.86E-03	1.55E-04	3.31E-03	3.31E-03	1.21E-02	5.02E-04	1.94E-03	2.86E-03	1.55E-04	2.55E-04	3.31E-03	9.02E-03
5.00E-04	1.93E-03	2.85E-03	1.54E-04	3.29E-03	3.29E-03	1.20E-02	5.00E-04	1.93E-03	2.85E-03	1.54E-04	2.54E-04	3.29E-03	8.98E-03
4.98E-04	1.92E-03	2.85E-03	1.54E-04	3.28E-03	3.28E-03	1.20E-02	4.98E-04	1.92E-03	2.85E-03	1.54E-04	2.54E-04	3.28E-03	8.95E-03
4.95E-04	1.90E-03	2.83E-03	1.53E-04	3.26E-03	3.26E-03	1.19E-02	4.95E-04	1.90E-03	2.83E-03	1.53E-04	2.53E-04	3.26E-03	8.88E-03
4.91E-04	1.88E-03	2.81E-03	1.52E-04	3.23E-03	3.23E-03	1.18E-02	4.91E-04	1.88E-03	2.81E-03	1.52E-04	2.51E-04	3.23E-03	8.81E-03
4.89E-04	1.87E-03	2.81E-03	1.52E-04	3.22E-03	3.22E-03	1.18E-02	4.89E-04	1.87E-03	2.81E-03	1.52E-04	2.51E-04	3.22E-03	8.79E-03
4.87E-04	1.85E-03	2.80E-03	1.52E-04	3.20E-03	3.20E-03	1.17E-02	4.87E-04	1.85E-03	2.80E-03	1.52E-04	2.51E-04	3.20E-03	8.74E-03

4.82E-04	1.83E-03	2.78E-03	1.51E-04	3.16E-03	3.16E-03	1.16E-02	4.82E-04	1.83E-03	2.78E-03	1.51E-04	2.49E-04	3.16E-03	8.65E-03
4.77E-04	1.79E-03	2.74E-03	1.49E-04	3.12E-03	3.12E-03	1.14E-02	4.77E-04	1.79E-03	2.74E-03	1.49E-04	2.47E-04	3.12E-03	8.53E-03
4.71E-04	1.76E-03	2.70E-03	1.47E-04	3.06E-03	3.06E-03	1.12E-02	4.71E-04	1.76E-03	2.70E-03	1.47E-04	2.44E-04	3.06E-03	8.38E-03
4.67E-04	1.74E-03	2.68E-03	1.46E-04	3.03E-03	3.03E-03	1.11E-02	4.67E-04	1.74E-03	2.68E-03	1.46E-04	2.42E-04	3.03E-03	8.30E-03
4.64E-04	1.72E-03	2.66E-03	1.45E-04	3.00E-03	3.00E-03	1.10E-02	4.64E-04	1.72E-03	2.66E-03	1.45E-04	2.41E-04	3.00E-03	8.23E-03
6.34E-04	2.80E-03	3.44E-03	1.79E-04	4.32E-03	4.32E-03	1.57E-02	6.34E-04	2.80E-03	3.44E-03	1.79E-04	2.86E-04	4.32E-03	1.17E-02
6.23E-04	2.73E-03	3.40E-03	1.77E-04	4.24E-03	4.24E-03	1.54E-02	6.23E-04	2.73E-03	3.40E-03	1.77E-04	2.84E-04	4.24E-03	1.15E-02
6.10E-04	2.64E-03	3.33E-03	1.75E-04	4.13E-03	4.13E-03	1.50E-02	6.10E-04	2.64E-03	3.33E-03	1.75E-04	2.82E-04	4.13E-03	1.12E-02
6.05E-04	2.60E-03	3.31E-03	1.74E-04	4.09E-03	4.09E-03	1.49E-02	6.05E-04	2.60E-03	3.31E-03	1.74E-04	2.80E-04	4.09E-03	1.11E-02
5.96E-04	2.54E-03	3.28E-03	1.72E-04	4.03E-03	4.03E-03	1.46E-02	5.96E-04	2.54E-03	3.28E-03	1.72E-04	2.79E-04	4.03E-03	1.09E-02
5.90E-04	2.50E-03	3.25E-03	1.71E-04	3.97E-03	3.97E-03	1.45E-02	5.90E-04	2.50E-03	3.25E-03	1.71E-04	2.77E-04	3.97E-03	1.08E-02
5.85E-04	2.47E-03	3.23E-03	1.70E-04	3.94E-03	3.94E-03	1.43E-02	5.85E-04	2.47E-03	3.23E-03	1.70E-04	2.76E-04	3.94E-03	1.07E-02
5.76E-04	2.41E-03	3.19E-03	1.69E-04	3.87E-03	3.87E-03	1.41E-02	5.76E-04	2.41E-03	3.19E-03	1.69E-04	2.74E-04	3.87E-03	1.05E-02
5.68E-04	2.35E-03	3.15E-03	1.67E-04	3.80E-03	3.80E-03	1.38E-02	5.68E-04	2.35E-03	3.15E-03	1.67E-04	2.72E-04	3.80E-03	1.03E-02
5.62E-04	2.31E-03	3.12E-03	1.65E-04	3.75E-03	3.75E-03	1.36E-02	5.62E-04	2.31E-03	3.12E-03	1.65E-04	2.70E-04	3.75E-03	1.02E-02
5.51E-04	2.24E-03	3.06E-03	1.63E-04	3.66E-03	3.66E-03	1.33E-02	5.51E-04	2.24E-03	3.06E-03	1.63E-04	2.67E-04	3.66E-03	9.95E-03
5.43E-04	2.19E-03	3.02E-03	1.61E-04	3.59E-03	3.59E-03	1.31E-02	5.43E-04	2.19E-03	3.02E-03	1.61E-04	2.64E-04	3.59E-03	9.77E-03
5.36E-04	2.15E-03	2.98E-03	1.60E-04	3.54E-03	3.54E-03	1.29E-02	5.36E-04	2.15E-03	2.98E-03	1.60E-04	2.62E-04	3.54E-03	9.63E-03
5.32E-04	2.12E-03	2.97E-03	1.59E-04	3.51E-03	3.51E-03	1.28E-02	5.32E-04	2.12E-03	2.97E-03	1.59E-04	2.61E-04	3.51E-03	9.55E-03
5.27E-04	2.09E-03	2.94E-03	1.58E-04	3.47E-03	3.47E-03	1.27E-02	5.27E-04	2.09E-03	2.94E-03	1.58E-04	2.59E-04	3.47E-03	9.44E-03
5.22E-04	2.06E-03	2.92E-03	1.57E-04	3.43E-03	3.43E-03	1.25E-02	5.22E-04	2.06E-03	2.92E-03	1.57E-04	2.58E-04	3.43E-03	9.34E-03
5.17E-04	2.03E-03	2.89E-03	1.56E-04	3.39E-03	3.39E-03	1.24E-02	5.17E-04	2.03E-03	2.89E-03	1.56E-04	2.56E-04	3.39E-03	9.23E-03
5.13E-04	2.01E-03	2.88E-03	1.55E-04	3.37E-03	3.37E-03	1.23E-02	5.13E-04	2.01E-03	2.88E-03	1.55E-04	2.55E-04	3.37E-03	9.18E-03
5.11E-04	2.00E-03	2.87E-03	1.55E-04	3.35E-03	3.35E-03	1.22E-02	5.11E-04	2.00E-03	2.87E-03	1.55E-04	2.54E-04	3.35E-03	9.14E-03
5.08E-04	1.98E-03	2.87E-03	1.54E-04	3.33E-03	3.33E-03	1.22E-02	5.08E-04	1.98E-03	2.87E-03	1.54E-04	2.54E-04	3.33E-03	9.10E-03
5.04E-04	1.96E-03	2.85E-03	1.53E-04	3.30E-03	3.30E-03	1.21E-02	5.04E-04	1.96E-03	2.85E-03	1.53E-04	2.52E-04	3.30E-03	9.02E-03
5.01E-04	1.94E-03	2.83E-03	1.52E-04	3.28E-03	3.28E-03	1.20E-02	5.01E-04	1.94E-03	2.83E-03	1.52E-04	2.51E-04	3.28E-03	8.95E-03
4.97E-04	1.91E-03	2.81E-03	1.51E-04	3.24E-03	3.24E-03	1.19E-02	4.97E-04	1.91E-03	2.81E-03	1.51E-04	2.50E-04	3.24E-03	8.87E-03
4.93E-04	1.89E-03	2.80E-03	1.51E-04	3.22E-03	3.22E-03	1.18E-02	4.93E-04	1.89E-03	2.80E-03	1.51E-04	2.49E-04	3.22E-03	8.80E-03
4.87E-04	1.85E-03	2.76E-03	1.49E-04	3.16E-03	3.16E-03	1.16E-02	4.87E-04	1.85E-03	2.76E-03	1.49E-04	2.46E-04	3.16E-03	8.65E-03
4.83E-04	1.82E-03	2.73E-03	1.48E-04	3.13E-03	3.13E-03	1.14E-02	4.83E-04	1.82E-03	2.73E-03	1.48E-04	2.45E-04	3.13E-03	8.56E-03
4.78E-04	1.80E-03	2.71E-03	1.47E-04	3.09E-03	3.09E-03	1.13E-02	4.78E-04	1.80E-03	2.71E-03	1.47E-04	2.43E-04	3.09E-03	8.47E-03
4.74E-04	1.77E-03	2.69E-03	1.46E-04	3.06E-03	3.06E-03	1.12E-02	4.74E-04	1.77E-03	2.69E-03	1.46E-04	2.42E-04	3.06E-03	8.39E-03
6.48E-04	2.91E-03	3.41E-03	1.77E-04	4.37E-03	4.37E-03	1.59E-02	6.48E-04	2.91E-03	3.41E-03	1.77E-04	2.83E-04	4.37E-03	1.18E-02
6.38E-04	2.84E-03	3.37E-03	1.76E-04	4.29E-03	4.29E-03	1.56E-02	6.38E-04	2.84E-03	3.37E-03	1.76E-04	2.81E-04	4.29E-03	1.16E-02
6.21E-04	2.71E-03	3.30E-03	1.73E-04	4.15E-03	4.15E-03	1.51E-02	6.21E-04	2.71E-03	3.30E-03	1.73E-04	2.78E-04	4.15E-03	1.12E-02
6.19E-04	2.70E-03	3.30E-03	1.73E-04	4.15E-03	4.15E-03	1.51E-02	6.19E-04	2.70E-03	3.30E-03	1.73E-04	2.77E-04	4.15E-03	1.12E-02
6.09E-04	2.64E-03	3.26E-03	1.71E-04	4.07E-03	4.07E-03	1.48E-02	6.09E-04	2.64E-03	3.26E-03	1.71E-04	2.76E-04	4.07E-03	1.10E-02
6.02E-04	2.58E-03	3.23E-03	1.69E-04	4.01E-03	4.01E-03	1.46E-02	6.02E-04	2.58E-03	3.23E-03	1.69E-04	2.74E-04	4.01E-03	1.09E-02
6.00E-04	2.57E-03	3.23E-03	1.69E-04	4.00E-03	4.00E-03	1.46E-02	6.00E-04	2.57E-03	3.23E-03	1.69E-04	2.74E-04	4.00E-03	1.08E-02
5.90E-04	2.50E-03	3.19E-03	1.67E-04	3.93E-03	3.93E-03	1.43E-02	5.90E-04	2.50E-03	3.19E-03	1.67E-04	2.71E-04	3.93E-03	1.06E-02
5.79E-04	2.43E-03	3.13E-03	1.65E-04	3.83E-03	3.83E-03	1.40E-02	5.79E-04	2.43E-03	3.13E-03	1.65E-04	2.69E-04	3.83E-03	1.04E-02
5.76E-04	2.40E-03	3.12E-03	1.65E-04	3.81E-03	3.81E-03	1.39E-02	5.76E-04	2.40E-03	3.12E-03	1.65E-04	2.68E-04	3.81E-03	1.03E-02
5.62E-04	2.31E-03	3.05E-03	1.62E-04	3.70E-03	3.70E-03	1.35E-02	5.62E-04	2.31E-03	3.05E-03	1.62E-04	2.65E-04	3.70E-03	1.01E-02
5.56E-04	2.27E-03	3.03E-03	1.61E-04	3.65E-03	3.65E-03	1.33E-02	5.56E-04	2.27E-03	3.03E-03	1.61E-04	2.63E-04	3.65E-03	9.93E-03
5.52E-04	2.24E-03	3.01E-03	1.60E-04	3.62E-03	3.62E-03	1.32E-02	5.52E-04	2.24E-03	3.01E-03	1.60E-04	2.62E-04	3.62E-03	9.85E-03
5.45E-04	2.20E-03	2.97E-03	1.58E-04	3.56E-03	3.56E-03	1.30E-02	5.45E-04	2.20E-03	2.97E-03	1.58E-04	2.60E-04	3.56E-03	9.70E-03
5.40E-04	2.17E-03	2.96E-03	1.58E-04	3.53E-03	3.53E-03	1.29E-02	5.40E-04	2.17E-03	2.96E-03	1.58E-04	2.59E-04	3.53E-03	9.62E-03
5.36E-04	2.15E-03	2.94E-03	1.57E-04	3.50E-03	3.50E-03	1.28E-02	5.36E-04	2.15E-03	2.94E-03	1.57E-04	2.58E-04	3.50E-03	9.55E-03
5.30E-04	2.10E-03	2.91E-03	1.55E-04	3.45E-03	3.45E-03	1.26E-02	5.30E-04	2.10E-03	2.91E-03	1.55E-04	2.56E-04	3.45E-03	9.40E-03
5.26E-04	2.08E-03	2.90E-03	1.55E-04	3.42E-03	3.42E-03	1.25E-02	5.26E-04	2.08E-03	2.90E-03	1.55E-04	2.55E-04	3.42E-03	9.34E-03
5.23E-04	2.07E-03	2.89E-03	1.54E-04	3.41E-03	3.41E-03	1.25E-02	5.23E-04	2.07E-03	2.89E-03	1.54E-04	2.54E-04	3.41E-03	9.30E-03
5.20E-04	2.05E-03	2.88E-03	1.54E-04	3.38E-03	3.38E-03	1.24E-02	5.20E-04	2.05E-03	2.88E-03	1.54E-04	2.53E-04	3.38E-03	9.24E-03
5.17E-04	2.03E-03	2.87E-03	1.53E-04	3.36E-03	3.36E-03	1.23E-02	5.17E-04	2.03E-03	2.87E-03	1.53E-04	2.52E-04	3.36E-03	9.18E-03

5.13E-04	2.00E-03	2.85E-03	1.52E-04	3.33E-03	3.33E-03	1.22E-02	5.13E-04	2.00E-03	2.85E-03	1.52E-04	2.51E-04	3.33E-03	9.11E-03
5.09E-04	1.98E-03	2.83E-03	1.52E-04	3.31E-03	3.31E-03	1.21E-02	5.09E-04	1.98E-03	2.83E-03	1.52E-04	2.50E-04	3.31E-03	9.04E-03
5.05E-04	1.95E-03	2.81E-03	1.51E-04	3.27E-03	3.27E-03	1.20E-02	5.05E-04	1.95E-03	2.81E-03	1.51E-04	2.49E-04	3.27E-03	8.95E-03
4.96E-04	1.90E-03	2.77E-03	1.49E-04	3.20E-03	3.20E-03	1.17E-02	4.96E-04	1.90E-03	2.77E-03	1.49E-04	2.46E-04	3.20E-03	8.76E-03
4.94E-04	1.89E-03	2.76E-03	1.48E-04	3.19E-03	3.19E-03	1.17E-02	4.94E-04	1.89E-03	2.76E-03	1.48E-04	2.45E-04	3.19E-03	8.73E-03
4.90E-04	1.86E-03	2.73E-03	1.47E-04	3.15E-03	3.15E-03	1.15E-02	4.90E-04	1.86E-03	2.73E-03	1.47E-04	2.43E-04	3.15E-03	8.63E-03
4.85E-04	1.83E-03	2.71E-03	1.46E-04	3.11E-03	3.11E-03	1.14E-02	4.85E-04	1.83E-03	2.71E-03	1.46E-04	2.42E-04	3.11E-03	8.52E-03
6.62E-04	3.02E-03	3.38E-03	1.75E-04	4.41E-03	4.41E-03	1.60E-02	6.62E-04	3.02E-03	3.38E-03	1.75E-04	2.79E-04	4.41E-03	1.19E-02
6.47E-04	2.91E-03	3.34E-03	1.73E-04	4.31E-03	4.31E-03	1.57E-02	6.47E-04	2.91E-03	3.34E-03	1.73E-04	2.77E-04	4.31E-03	1.17E-02
6.31E-04	2.78E-03	3.27E-03	1.71E-04	4.17E-03	4.17E-03	1.52E-02	6.31E-04	2.78E-03	3.27E-03	1.71E-04	2.74E-04	4.17E-03	1.13E-02
6.32E-04	2.79E-03	3.28E-03	1.71E-04	4.18E-03	4.18E-03	1.52E-02	6.32E-04	2.79E-03	3.28E-03	1.71E-04	2.74E-04	4.18E-03	1.13E-02
6.23E-04	2.73E-03	3.24E-03	1.69E-04	4.11E-03	4.11E-03	1.50E-02	6.23E-04	2.73E-03	3.24E-03	1.69E-04	2.72E-04	4.11E-03	1.11E-02
6.15E-04	2.67E-03	3.22E-03	1.68E-04	4.06E-03	4.06E-03	1.48E-02	6.15E-04	2.67E-03	3.22E-03	1.68E-04	2.71E-04	4.06E-03	1.10E-02
6.11E-04	2.64E-03	3.20E-03	1.67E-04	4.02E-03	4.02E-03	1.47E-02	6.11E-04	2.64E-03	3.20E-03	1.67E-04	2.70E-04	4.02E-03	1.09E-02
6.04E-04	2.59E-03	3.18E-03	1.66E-04	3.98E-03	3.98E-03	1.45E-02	6.04E-04	2.59E-03	3.18E-03	1.66E-04	2.69E-04	3.98E-03	1.08E-02
5.87E-04	2.48E-03	3.10E-03	1.63E-04	3.84E-03	3.84E-03	1.40E-02	5.87E-04	2.48E-03	3.10E-03	1.63E-04	2.65E-04	3.84E-03	1.04E-02
5.89E-04	2.49E-03	3.12E-03	1.64E-04	3.86E-03	3.86E-03	1.41E-02	5.89E-04	2.49E-03	3.12E-03	1.64E-04	2.66E-04	3.86E-03	1.05E-02
5.77E-04	2.40E-03	3.06E-03	1.61E-04	3.76E-03	3.76E-03	1.37E-02	5.77E-04	2.40E-03	3.06E-03	1.61E-04	2.63E-04	3.76E-03	1.02E-02
5.71E-04	2.36E-03	3.04E-03	1.60E-04	3.72E-03	3.72E-03	1.36E-02	5.71E-04	2.36E-03	3.04E-03	1.60E-04	2.62E-04	3.72E-03	1.01E-02
5.64E-04	2.32E-03	3.00E-03	1.59E-04	3.66E-03	3.66E-03	1.34E-02	5.64E-04	2.32E-03	3.00E-03	1.59E-04	2.60E-04	3.66E-03	9.96E-03
5.60E-04	2.29E-03	2.99E-03	1.58E-04	3.63E-03	3.63E-03	1.33E-02	5.60E-04	2.29E-03	2.99E-03	1.58E-04	2.59E-04	3.63E-03	9.89E-03
5.56E-04	2.27E-03	2.98E-03	1.58E-04	3.61E-03	3.61E-03	1.32E-02	5.56E-04	2.27E-03	2.98E-03	1.58E-04	2.58E-04	3.61E-03	9.83E-03
5.51E-04	2.23E-03	2.96E-03	1.57E-04	3.57E-03	3.57E-03	1.30E-02	5.51E-04	2.23E-03	2.96E-03	1.57E-04	2.57E-04	3.57E-03	9.72E-03
5.45E-04	2.19E-03	2.93E-03	1.55E-04	3.52E-03	3.52E-03	1.28E-02	5.45E-04	2.19E-03	2.93E-03	1.55E-04	2.55E-04	3.52E-03	9.59E-03
5.41E-04	2.17E-03	2.92E-03	1.55E-04	3.50E-03	3.50E-03	1.28E-02	5.41E-04	2.17E-03	2.92E-03	1.55E-04	2.54E-04	3.50E-03	9.53E-03
5.38E-04	2.15E-03	2.91E-03	1.54E-04	3.48E-03	3.48E-03	1.27E-02	5.38E-04	2.15E-03	2.91E-03	1.54E-04	2.54E-04	3.48E-03	9.49E-03
5.33E-04	2.12E-03	2.89E-03	1.53E-04	3.44E-03	3.44E-03	1.26E-02	5.33E-04	2.12E-03	2.89E-03	1.53E-04	2.52E-04	3.44E-03	9.39E-03
5.29E-04	2.09E-03	2.87E-03	1.52E-04	3.41E-03	3.41E-03	1.25E-02	5.29E-04	2.09E-03	2.87E-03	1.52E-04	2.51E-04	3.41E-03	9.30E-03
5.25E-04	2.07E-03	2.86E-03	1.52E-04	3.38E-03	3.38E-03	1.24E-02	5.25E-04	2.07E-03	2.86E-03	1.52E-04	2.50E-04	3.38E-03	9.23E-03
5.22E-04	2.05E-03	2.85E-03	1.51E-04	3.36E-03	3.36E-03	1.23E-02	5.22E-04	2.05E-03	2.85E-03	1.51E-04	2.49E-04	3.36E-03	9.18E-03
5.15E-04	2.01E-03	2.82E-03	1.50E-04	3.31E-03	3.31E-03	1.21E-02	5.15E-04	2.01E-03	2.82E-03	1.50E-04	2.48E-04	3.31E-03	9.05E-03
5.09E-04	1.97E-03	2.78E-03	1.49E-04	3.26E-03	3.26E-03	1.19E-02	5.09E-04	1.97E-03	2.78E-03	1.49E-04	2.45E-04	3.26E-03	8.92E-03
5.05E-04	1.94E-03	2.77E-03	1.48E-04	3.23E-03	3.23E-03	1.18E-02	5.05E-04	1.94E-03	2.77E-03	1.48E-04	2.44E-04	3.23E-03	8.84E-03
5.01E-04	1.92E-03	2.75E-03	1.47E-04	3.20E-03	3.20E-03	1.17E-02	5.01E-04	1.92E-03	2.75E-03	1.47E-04	2.43E-04	3.20E-03	8.75E-03
4.96E-04	1.88E-03	2.72E-03	1.46E-04	3.16E-03	3.16E-03	1.16E-02	4.96E-04	1.88E-03	2.72E-03	1.46E-04	2.41E-04	3.16E-03	8.65E-03
6.78E-04	3.13E-03	3.35E-03	1.73E-04	4.45E-03	4.45E-03	1.62E-02	6.78E-04	3.13E-03	3.35E-03	1.73E-04	2.75E-04	4.45E-03	1.21E-02
6.57E-04	2.97E-03	3.29E-03	1.71E-04	4.30E-03	4.30E-03	1.57E-02	6.57E-04	2.97E-03	3.29E-03	1.71E-04	2.72E-04	4.30E-03	1.17E-02
6.47E-04	2.89E-03	3.25E-03	1.69E-04	4.22E-03	4.22E-03	1.54E-02	6.47E-04	2.89E-03	3.25E-03	1.69E-04	2.71E-04	4.22E-03	1.14E-02
6.46E-04	2.89E-03	3.25E-03	1.69E-04	4.22E-03	4.22E-03	1.54E-02	6.46E-04	2.89E-03	3.25E-03	1.69E-04	2.70E-04	4.22E-03	1.14E-02
6.33E-04	2.79E-03	3.21E-03	1.67E-04	4.12E-03	4.12E-03	1.50E-02	6.33E-04	2.79E-03	3.21E-03	1.67E-04	2.68E-04	4.12E-03	1.12E-02
6.31E-04	2.78E-03	3.20E-03	1.67E-04	4.11E-03	4.11E-03	1.50E-02	6.31E-04	2.78E-03	3.20E-03	1.67E-04	2.68E-04	4.11E-03	1.12E-02
6.27E-04	2.75E-03	3.19E-03	1.66E-04	4.08E-03	4.08E-03	1.49E-02	6.27E-04	2.75E-03	3.19E-03	1.66E-04	2.67E-04	4.08E-03	1.11E-02
6.12E-04	2.64E-03	3.14E-03	1.64E-04	3.98E-03	3.98E-03	1.45E-02	6.12E-04	2.64E-03	3.14E-03	1.64E-04	2.65E-04	3.98E-03	1.08E-02
6.01E-04	2.56E-03	3.09E-03	1.62E-04	3.89E-03	3.89E-03	1.42E-02	6.01E-04	2.56E-03	3.09E-03	1.62E-04	2.63E-04	3.89E-03	1.06E-02
6.05E-04	2.59E-03	3.12E-03	1.63E-04	3.93E-03	3.93E-03	1.43E-02	6.05E-04	2.59E-03	3.12E-03	1.63E-04	2.63E-04	3.93E-03	1.07E-02
5.92E-04	2.50E-03	3.06E-03	1.61E-04	3.83E-03	3.83E-03	1.40E-02	5.92E-04	2.50E-03	3.06E-03	1.61E-04	2.61E-04	3.83E-03	1.04E-02
5.87E-04	2.46E-03	3.04E-03	1.60E-04	3.79E-03	3.79E-03	1.38E-02	5.87E-04	2.46E-03	3.04E-03	1.60E-04	2.60E-04	3.79E-03	1.03E-02
5.77E-04	2.39E-03	3.00E-03	1.58E-04	3.71E-03	3.71E-03	1.36E-02	5.77E-04	2.39E-03	3.00E-03	1.58E-04	2.58E-04	3.71E-03	1.01E-02
5.76E-04	2.39E-03	3.01E-03	1.58E-04	3.72E-03	3.72E-03	1.36E-02	5.76E-04	2.39E-03	3.01E-03	1.58E-04	2.58E-04	3.72E-03	1.01E-02
5.67E-04	2.33E-03	2.97E-03	1.56E-04	3.64E-03	3.64E-03	1.33E-02	5.67E-04	2.33E-03	2.97E-03	1.56E-04	2.56E-04	3.64E-03	9.91E-03
5.65E-04	2.31E-03	2.96E-03	1.56E-04	3.63E-03	3.63E-03	1.32E-02	5.65E-04	2.31E-03	2.96E-03	1.56E-04	2.55E-04	3.63E-03	9.88E-03
5.58E-04	2.26E-03	2.93E-03	1.55E-04	3.57E-03	3.57E-03	1.31E-02	5.58E-04	2.26E-03	2.93E-03	1.55E-04	2.54E-04	3.57E-03	9.73E-03
5.55E-04	2.24E-03	2.92E-03	1.54E-04	3.55E-03	3.55E-03	1.30E-02	5.55E-04	2.24E-03	2.92E-03	1.54E-04	2.53E-04	3.55E-03	9.68E-03
5.50E-04	2.21E-03	2.91E-03	1.53E-04	3.52E-03	3.52E-03	1.29E-02	5.50E-04	2.21E-03	2.91E-03	1.53E-04	2.52E-04	3.52E-03	9.60E-03

5.47E-04	2.19E-03	2.90E-03	1.53E-04	3.50E-03	3.50E-03	1.28E-02	5.47E-04	2.19E-03	2.90E-03	1.53E-04	2.51E-04	3.50E-03	9.53E-03
5.44E-04	2.17E-03	2.89E-03	1.52E-04	3.47E-03	3.47E-03	1.27E-02	5.44E-04	2.17E-03	2.89E-03	1.52E-04	2.50E-04	3.47E-03	9.48E-03
5.39E-04	2.14E-03	2.87E-03	1.51E-04	3.44E-03	3.44E-03	1.26E-02	5.39E-04	2.14E-03	2.87E-03	1.51E-04	2.49E-04	3.44E-03	9.39E-03
5.36E-04	2.12E-03	2.86E-03	1.51E-04	3.42E-03	3.42E-03	1.25E-02	5.36E-04	2.12E-03	2.86E-03	1.51E-04	2.48E-04	3.42E-03	9.32E-03
5.28E-04	2.07E-03	2.82E-03	1.49E-04	3.36E-03	3.36E-03	1.23E-02	5.28E-04	2.07E-03	2.82E-03	1.49E-04	2.46E-04	3.36E-03	9.17E-03
5.20E-04	2.02E-03	2.79E-03	1.48E-04	3.30E-03	3.30E-03	1.21E-02	5.20E-04	2.02E-03	2.79E-03	1.48E-04	2.44E-04	3.30E-03	9.02E-03
5.19E-04	2.01E-03	2.78E-03	1.47E-04	3.29E-03	3.29E-03	1.20E-02	5.19E-04	2.01E-03	2.78E-03	1.47E-04	2.44E-04	3.29E-03	8.99E-03
5.11E-04	1.96E-03	2.74E-03	1.46E-04	3.23E-03	3.23E-03	1.18E-02	5.11E-04	1.96E-03	2.74E-03	1.46E-04	2.41E-04	3.23E-03	8.83E-03
5.08E-04	1.94E-03	2.73E-03	1.45E-04	3.21E-03	3.21E-03	1.17E-02	5.08E-04	1.94E-03	2.73E-03	1.45E-04	2.41E-04	3.21E-03	8.77E-03
6.89E-04	3.20E-03	3.31E-03	1.70E-04	4.45E-03	4.45E-03	1.63E-02	6.89E-04	3.20E-03	3.31E-03	1.70E-04	2.71E-04	4.45E-03	1.21E-02
6.70E-04	3.06E-03	3.25E-03	1.68E-04	4.32E-03	4.32E-03	1.58E-02	6.70E-04	3.06E-03	3.25E-03	1.68E-04	2.68E-04	4.32E-03	1.17E-02
6.62E-04	3.00E-03	3.23E-03	1.67E-04	4.26E-03	4.26E-03	1.56E-02	6.62E-04	3.00E-03	3.23E-03	1.67E-04	2.67E-04	4.26E-03	1.16E-02
6.61E-04	2.99E-03	3.23E-03	1.67E-04	4.26E-03	4.26E-03	1.56E-02	6.61E-04	2.99E-03	3.23E-03	1.67E-04	2.67E-04	4.26E-03	1.16E-02
6.52E-04	2.93E-03	3.20E-03	1.66E-04	4.20E-03	4.20E-03	1.54E-02	6.52E-04	2.93E-03	3.20E-03	1.66E-04	2.66E-04	4.20E-03	1.14E-02
6.47E-04	2.88E-03	3.19E-03	1.65E-04	4.17E-03	4.17E-03	1.52E-02	6.47E-04	2.88E-03	3.19E-03	1.65E-04	2.65E-04	4.17E-03	1.13E-02
6.40E-04	2.84E-03	3.17E-03	1.64E-04	4.12E-03	4.12E-03	1.51E-02	6.40E-04	2.84E-03	3.17E-03	1.64E-04	2.64E-04	4.12E-03	1.12E-02
6.23E-04	2.71E-03	3.11E-03	1.62E-04	4.01E-03	4.01E-03	1.46E-02	6.23E-04	2.71E-03	3.11E-03	1.62E-04	2.62E-04	4.01E-03	1.09E-02
6.18E-04	2.67E-03	3.10E-03	1.61E-04	3.97E-03	3.97E-03	1.45E-02	6.18E-04	2.67E-03	3.10E-03	1.61E-04	2.61E-04	3.97E-03	1.08E-02
6.16E-04	2.66E-03	3.09E-03	1.61E-04	3.95E-03	3.95E-03	1.44E-02	6.16E-04	2.66E-03	3.09E-03	1.61E-04	2.60E-04	3.95E-03	1.07E-02
6.07E-04	2.59E-03	3.06E-03	1.59E-04	3.88E-03	3.88E-03	1.42E-02	6.07E-04	2.59E-03	3.06E-03	1.59E-04	2.58E-04	3.88E-03	1.06E-02
6.02E-04	2.55E-03	3.04E-03	1.59E-04	3.85E-03	3.85E-03	1.41E-02	6.02E-04	2.55E-03	3.04E-03	1.59E-04	2.57E-04	3.85E-03	1.05E-02
5.95E-04	2.51E-03	3.02E-03	1.58E-04	3.80E-03	3.80E-03	1.39E-02	5.95E-04	2.51E-03	3.02E-03	1.58E-04	2.56E-04	3.80E-03	1.03E-02
5.90E-04	2.47E-03	3.00E-03	1.57E-04	3.76E-03	3.76E-03	1.37E-02	5.90E-04	2.47E-03	3.00E-03	1.57E-04	2.55E-04	3.76E-03	1.02E-02
5.84E-04	2.43E-03	2.98E-03	1.56E-04	3.72E-03	3.72E-03	1.36E-02	5.84E-04	2.43E-03	2.98E-03	1.56E-04	2.54E-04	3.72E-03	1.01E-02
5.80E-04	2.40E-03	2.97E-03	1.55E-04	3.69E-03	3.69E-03	1.35E-02	5.80E-04	2.40E-03	2.97E-03	1.55E-04	2.53E-04	3.69E-03	1.00E-02
5.73E-04	2.35E-03	2.94E-03	1.54E-04	3.64E-03	3.64E-03	1.33E-02	5.73E-04	2.35E-03	2.94E-03	1.54E-04	2.52E-04	3.64E-03	9.92E-03
5.69E-04	2.32E-03	2.93E-03	1.53E-04	3.61E-03	3.61E-03	1.32E-02	5.69E-04	2.32E-03	2.93E-03	1.53E-04	2.51E-04	3.61E-03	9.83E-03
5.65E-04	2.30E-03	2.91E-03	1.53E-04	3.58E-03	3.58E-03	1.31E-02	5.65E-04	2.30E-03	2.91E-03	1.53E-04	2.50E-04	3.58E-03	9.76E-03
5.60E-04	2.26E-03	2.90E-03	1.52E-04	3.55E-03	3.55E-03	1.30E-02	5.60E-04	2.26E-03	2.90E-03	1.52E-04	2.49E-04	3.55E-03	9.67E-03
5.56E-04	2.23E-03	2.88E-03	1.51E-04	3.52E-03	3.52E-03	1.29E-02	5.56E-04	2.23E-03	2.88E-03	1.51E-04	2.48E-04	3.52E-03	9.59E-03
5.52E-04	2.21E-03	2.87E-03	1.51E-04	3.49E-03	3.49E-03	1.28E-02	5.52E-04	2.21E-03	2.87E-03	1.51E-04	2.48E-04	3.49E-03	9.52E-03
5.47E-04	2.18E-03	2.85E-03	1.50E-04	3.46E-03	3.46E-03	1.26E-02	5.47E-04	2.18E-03	2.85E-03	1.50E-04	2.46E-04	3.46E-03	9.43E-03
5.40E-04	2.13E-03	2.82E-03	1.48E-04	3.40E-03	3.40E-03	1.24E-02	5.40E-04	2.13E-03	2.82E-03	1.48E-04	2.45E-04	3.40E-03	9.28E-03
5.34E-04	2.08E-03	2.79E-03	1.47E-04	3.35E-03	3.35E-03	1.23E-02	5.34E-04	2.08E-03	2.79E-03	1.47E-04	2.43E-04	3.35E-03	9.15E-03
5.30E-04	2.06E-03	2.78E-03	1.47E-04	3.33E-03	3.33E-03	1.22E-02	5.30E-04	2.06E-03	2.78E-03	1.47E-04	2.42E-04	3.33E-03	9.08E-03
5.25E-04	2.03E-03	2.76E-03	1.46E-04	3.29E-03	3.29E-03	1.20E-02	5.25E-04	2.03E-03	2.76E-03	1.46E-04	2.41E-04	3.29E-03	8.99E-03
5.19E-04	1.99E-03	2.73E-03	1.45E-04	3.25E-03	3.25E-03	1.19E-02	5.19E-04	1.99E-03	2.73E-03	1.45E-04	2.39E-04	3.25E-03	8.88E-03
6.88E-04	3.18E-03	3.23E-03	1.67E-04	4.37E-03	4.37E-03	1.60E-02	6.88E-04	3.18E-03	3.23E-03	1.67E-04	2.66E-04	4.37E-03	1.19E-02
6.80E-04	3.11E-03	3.20E-03	1.66E-04	4.31E-03	4.31E-03	1.58E-02	6.80E-04	3.11E-03	3.20E-03	1.66E-04	2.64E-04	4.31E-03	1.17E-02
6.75E-04	3.08E-03	3.19E-03	1.65E-04	4.28E-03	4.28E-03	1.57E-02	6.75E-04	3.08E-03	3.19E-03	1.65E-04	2.64E-04	4.28E-03	1.16E-02
6.76E-04	3.09E-03	3.20E-03	1.65E-04	4.30E-03	4.30E-03	1.57E-02	6.76E-04	3.09E-03	3.20E-03	1.65E-04	2.63E-04	4.30E-03	1.17E-02
6.68E-04	3.03E-03	3.18E-03	1.64E-04	4.25E-03	4.25E-03	1.55E-02	6.68E-04	3.03E-03	3.18E-03	1.64E-04	2.62E-04	4.25E-03	1.15E-02
6.63E-04	2.99E-03	3.16E-03	1.63E-04	4.21E-03	4.21E-03	1.54E-02	6.63E-04	2.99E-03	3.16E-03	1.63E-04	2.61E-04	4.21E-03	1.14E-02
6.57E-04	2.94E-03	3.15E-03	1.62E-04	4.17E-03	4.17E-03	1.53E-02	6.57E-04	2.94E-03	3.15E-03	1.62E-04	2.60E-04	4.17E-03	1.13E-02
6.39E-04	2.81E-03	3.09E-03	1.61E-04	4.05E-03	4.05E-03	1.48E-02	6.39E-04	2.81E-03	3.09E-03	1.61E-04	2.58E-04	4.05E-03	1.10E-02
6.36E-04	2.79E-03	3.09E-03	1.60E-04	4.03E-03	4.03E-03	1.47E-02	6.36E-04	2.79E-03	3.09E-03	1.60E-04	2.58E-04	4.03E-03	1.10E-02
6.28E-04	2.72E-03	3.06E-03	1.59E-04	3.97E-03	3.97E-03	1.45E-02	6.28E-04	2.72E-03	3.06E-03	1.59E-04	2.56E-04	3.97E-03	1.08E-02
6.20E-04	2.66E-03	3.03E-03	1.58E-04	3.91E-03	3.91E-03	1.43E-02	6.20E-04	2.66E-03	3.03E-03	1.58E-04	2.55E-04	3.91E-03	1.06E-02
6.18E-04	2.65E-03	3.03E-03	1.57E-04	3.90E-03	3.90E-03	1.43E-02	6.18E-04	2.65E-03	3.03E-03	1.57E-04	2.55E-04	3.90E-03	1.06E-02
6.11E-04	2.60E-03	3.01E-03	1.56E-04	3.85E-03	3.85E-03	1.41E-02	6.11E-04	2.60E-03	3.01E-03	1.56E-04	2.54E-04	3.85E-03	1.05E-02
6.04E-04	2.55E-03	2.99E-03	1.55E-04	3.81E-03	3.81E-03	1.39E-02	6.04E-04	2.55E-03	2.99E-03	1.55E-04	2.53E-04	3.81E-03	1.04E-02
6.00E-04	2.52E-03	2.98E-03	1.55E-04	3.78E-03	3.78E-03	1.38E-02	6.00E-04	2.52E-03	2.98E-03	1.55E-04	2.52E-04	3.78E-03	1.03E-02
5.95E-04	2.48E-03	2.96E-03	1.54E-04	3.74E-03	3.74E-03	1.37E-02	5.95E-04	2.48E-03	2.96E-03	1.54E-04	2.51E-04	3.74E-03	1.02E-02
5.89E-04	2.44E-03	2.94E-03	1.53E-04	3.70E-03	3.70E-03	1.35E-02	5.89E-04	2.44E-03	2.94E-03	1.53E-04	2.50E-04	3.70E-03	1.01E-02

5.83E-04	2.40E-03	2.92E-03	1.52E-04	3.66E-03	3.66E-03	1.34E-02	5.83E-04	2.40E-03	2.92E-03	1.52E-04	2.49E-04	3.66E-03	9.96E-03
5.76E-04	2.35E-03	2.90E-03	1.51E-04	3.62E-03	3.62E-03	1.32E-02	5.76E-04	2.35E-03	2.90E-03	1.51E-04	2.48E-04	3.62E-03	9.84E-03
5.74E-04	2.34E-03	2.90E-03	1.51E-04	3.60E-03	3.60E-03	1.32E-02	5.74E-04	2.34E-03	2.90E-03	1.51E-04	2.47E-04	3.60E-03	9.81E-03
5.69E-04	2.30E-03	2.88E-03	1.50E-04	3.56E-03	3.56E-03	1.30E-02	5.69E-04	2.30E-03	2.88E-03	1.50E-04	2.46E-04	3.56E-03	9.70E-03
5.64E-04	2.26E-03	2.86E-03	1.49E-04	3.53E-03	3.53E-03	1.29E-02	5.64E-04	2.26E-03	2.86E-03	1.49E-04	2.45E-04	3.53E-03	9.60E-03
5.57E-04	2.22E-03	2.83E-03	1.48E-04	3.48E-03	3.48E-03	1.27E-02	5.57E-04	2.22E-03	2.83E-03	1.48E-04	2.44E-04	3.48E-03	9.47E-03
5.51E-04	2.18E-03	2.81E-03	1.47E-04	3.44E-03	3.44E-03	1.26E-02	5.51E-04	2.18E-03	2.81E-03	1.47E-04	2.43E-04	3.44E-03	9.37E-03
5.43E-04	2.12E-03	2.77E-03	1.46E-04	3.37E-03	3.37E-03	1.23E-02	5.43E-04	2.12E-03	2.77E-03	1.46E-04	2.41E-04	3.37E-03	9.19E-03
5.42E-04	2.11E-03	2.78E-03	1.46E-04	3.37E-03	3.37E-03	1.23E-02	5.42E-04	2.11E-03	2.78E-03	1.46E-04	2.40E-04	3.37E-03	9.18E-03
5.37E-04	2.08E-03	2.76E-03	1.45E-04	3.33E-03	3.33E-03	1.22E-02	5.37E-04	2.08E-03	2.76E-03	1.45E-04	2.39E-04	3.33E-03	9.09E-03
5.32E-04	2.05E-03	2.74E-03	1.44E-04	3.29E-03	3.29E-03	1.20E-02	5.32E-04	2.05E-03	2.74E-03	1.44E-04	2.38E-04	3.29E-03	8.99E-03
7.09E-04	3.31E-03	3.20E-03	1.65E-04	4.43E-03	4.43E-03	1.62E-02	7.09E-04	3.31E-03	3.20E-03	1.65E-04	2.63E-04	4.43E-03	1.21E-02
7.00E-04	3.25E-03	3.18E-03	1.64E-04	4.38E-03	4.38E-03	1.60E-02	7.00E-04	3.25E-03	3.18E-03	1.64E-04	2.61E-04	4.38E-03	1.19E-02
6.90E-04	3.17E-03	3.16E-03	1.63E-04	4.31E-03	4.31E-03	1.58E-02	6.90E-04	3.17E-03	3.16E-03	1.63E-04	2.60E-04	4.31E-03	1.18E-02
6.90E-04	3.17E-03	3.16E-03	1.63E-04	4.32E-03	4.32E-03	1.58E-02	6.90E-04	3.17E-03	3.16E-03	1.63E-04	2.60E-04	4.32E-03	1.18E-02
6.87E-04	3.14E-03	3.15E-03	1.62E-04	4.30E-03	4.30E-03	1.57E-02	6.87E-04	3.14E-03	3.15E-03	1.62E-04	2.59E-04	4.30E-03	1.17E-02
6.79E-04	3.08E-03	3.13E-03	1.61E-04	4.25E-03	4.25E-03	1.56E-02	6.79E-04	3.08E-03	3.13E-03	1.61E-04	2.58E-04	4.25E-03	1.16E-02
6.69E-04	3.01E-03	3.11E-03	1.60E-04	4.19E-03	4.19E-03	1.53E-02	6.69E-04	3.01E-03	3.11E-03	1.60E-04	2.57E-04	4.19E-03	1.14E-02
6.53E-04	2.89E-03	3.07E-03	1.59E-04	4.09E-03	4.09E-03	1.50E-02	6.53E-04	2.89E-03	3.07E-03	1.59E-04	2.55E-04	4.09E-03	1.11E-02
6.53E-04	2.88E-03	3.07E-03	1.58E-04	4.08E-03	4.08E-03	1.49E-02	6.53E-04	2.88E-03	3.07E-03	1.58E-04	2.55E-04	4.08E-03	1.11E-02
6.48E-04	2.84E-03	3.05E-03	1.58E-04	4.05E-03	4.05E-03	1.48E-02	6.48E-04	2.84E-03	3.05E-03	1.58E-04	2.54E-04	4.05E-03	1.10E-02
6.40E-04	2.78E-03	3.03E-03	1.57E-04	3.99E-03	3.99E-03	1.46E-02	6.40E-04	2.78E-03	3.03E-03	1.57E-04	2.53E-04	3.99E-03	1.09E-02
6.34E-04	2.74E-03	3.02E-03	1.56E-04	3.95E-03	3.95E-03	1.44E-02	6.34E-04	2.74E-03	3.02E-03	1.56E-04	2.52E-04	3.95E-03	1.07E-02
6.28E-04	2.69E-03	3.00E-03	1.55E-04	3.91E-03	3.91E-03	1.43E-02	6.28E-04	2.69E-03	3.00E-03	1.55E-04	2.51E-04	3.91E-03	1.06E-02
6.22E-04	2.65E-03	2.98E-03	1.54E-04	3.88E-03	3.88E-03	1.42E-02	6.22E-04	2.65E-03	2.98E-03	1.54E-04	2.50E-04	3.88E-03	1.05E-02
6.16E-04	2.60E-03	2.97E-03	1.54E-04	3.83E-03	3.83E-03	1.40E-02	6.16E-04	2.60E-03	2.97E-03	1.54E-04	2.49E-04	3.83E-03	1.04E-02
6.12E-04	2.57E-03	2.96E-03	1.53E-04	3.81E-03	3.81E-03	1.39E-02	6.12E-04	2.57E-03	2.96E-03	1.53E-04	2.48E-04	3.81E-03	1.03E-02
6.06E-04	2.53E-03	2.94E-03	1.52E-04	3.77E-03	3.77E-03	1.38E-02	6.06E-04	2.53E-03	2.94E-03	1.52E-04	2.47E-04	3.77E-03	1.02E-02
6.00E-04	2.48E-03	2.92E-03	1.51E-04	3.72E-03	3.72E-03	1.36E-02	6.00E-04	2.48E-03	2.92E-03	1.51E-04	2.46E-04	3.72E-03	1.01E-02
5.93E-04	2.43E-03	2.90E-03	1.50E-04	3.68E-03	3.68E-03	1.34E-02	5.93E-04	2.43E-03	2.90E-03	1.50E-04	2.45E-04	3.68E-03	1.00E-02
5.89E-04	2.40E-03	2.88E-03	1.50E-04	3.65E-03	3.65E-03	1.33E-02	5.89E-04	2.40E-03	2.88E-03	1.50E-04	2.45E-04	3.65E-03	9.92E-03
5.83E-04	2.36E-03	2.87E-03	1.49E-04	3.61E-03	3.61E-03	1.32E-02	5.83E-04	2.36E-03	2.87E-03	1.49E-04	2.44E-04	3.61E-03	9.81E-03
5.78E-04	2.33E-03	2.85E-03	1.48E-04	3.57E-03	3.57E-03	1.30E-02	5.78E-04	2.33E-03	2.85E-03	1.48E-04	2.43E-04	3.57E-03	9.71E-03
5.72E-04	2.29E-03	2.83E-03	1.47E-04	3.54E-03	3.54E-03	1.29E-02	5.72E-04	2.29E-03	2.83E-03	1.47E-04	2.42E-04	3.54E-03	9.62E-03
5.66E-04	2.24E-03	2.81E-03	1.46E-04	3.48E-03	3.48E-03	1.27E-02	5.66E-04	2.24E-03	2.81E-03	1.46E-04	2.41E-04	3.48E-03	9.49E-03
5.58E-04	2.20E-03	2.78E-03	1.45E-04	3.43E-03	3.43E-03	1.25E-02	5.58E-04	2.20E-03	2.78E-03	1.45E-04	2.39E-04	3.43E-03	9.35E-03
5.54E-04	2.16E-03	2.76E-03	1.44E-04	3.40E-03	3.40E-03	1.24E-02	5.54E-04	2.16E-03	2.76E-03	1.44E-04	2.38E-04	3.40E-03	9.26E-03
5.49E-04	2.13E-03	2.75E-03	1.44E-04	3.36E-03	3.36E-03	1.23E-02	5.49E-04	2.13E-03	2.75E-03	1.44E-04	2.37E-04	3.36E-03	9.17E-03
5.45E-04	2.11E-03	2.74E-03	1.43E-04	3.34E-03	3.34E-03	1.22E-02	5.45E-04	2.11E-03	2.74E-03	1.43E-04	2.36E-04	3.34E-03	9.11E-03
7.30E-04	3.44E-03	3.17E-03	1.63E-04	4.48E-03	4.48E-03	1.65E-02	7.30E-04	3.44E-03	3.17E-03	1.63E-04	2.59E-04	4.48E-03	1.22E-02
7.17E-04	3.34E-03	3.15E-03	1.62E-04	4.41E-03	4.41E-03	1.62E-02	7.17E-04	3.34E-03	3.15E-03	1.62E-04	2.58E-04	4.41E-03	1.20E-02
7.05E-04	3.25E-03	3.12E-03	1.61E-04	4.33E-03	4.33E-03	1.59E-02	7.05E-04	3.25E-03	3.12E-03	1.61E-04	2.57E-04	4.33E-03	1.18E-02
7.04E-04	3.24E-03	3.12E-03	1.60E-04	4.33E-03	4.33E-03	1.59E-02	7.04E-04	3.24E-03	3.12E-03	1.60E-04	2.56E-04	4.33E-03	1.18E-02
7.04E-04	3.23E-03	3.12E-03	1.60E-04	4.33E-03	4.33E-03	1.59E-02	7.04E-04	3.23E-03	3.12E-03	1.60E-04	2.56E-04	4.33E-03	1.18E-02
6.96E-04	3.17E-03	3.10E-03	1.59E-04	4.29E-03	4.29E-03	1.57E-02	6.96E-04	3.17E-03	3.10E-03	1.59E-04	2.55E-04	4.29E-03	1.17E-02
6.82E-04	3.07E-03	3.07E-03	1.58E-04	4.20E-03	4.20E-03	1.54E-02	6.82E-04	3.07E-03	3.07E-03	1.58E-04	2.53E-04	4.20E-03	1.14E-02
6.74E-04	3.01E-03	3.05E-03	1.57E-04	4.15E-03	4.15E-03	1.52E-02	6.74E-04	3.01E-03	3.05E-03	1.57E-04	2.52E-04	4.15E-03	1.13E-02
6.64E-04	2.93E-03	3.03E-03	1.56E-04	4.08E-03	4.08E-03	1.49E-02	6.64E-04	2.93E-03	3.03E-03	1.56E-04	2.51E-04	4.08E-03	1.11E-02
6.64E-04	2.93E-03	3.03E-03	1.56E-04	4.08E-03	4.08E-03	1.49E-02	6.64E-04	2.93E-03	3.03E-03	1.56E-04	2.51E-04	4.08E-03	1.11E-02
6.56E-04	2.87E-03	3.01E-03	1.55E-04	4.04E-03	4.04E-03	1.48E-02	6.56E-04	2.87E-03	3.01E-03	1.55E-04	2.50E-04	4.04E-03	1.10E-02
6.51E-04	2.83E-03	3.00E-03	1.54E-04	4.00E-03	4.00E-03	1.46E-02	6.51E-04	2.83E-03	3.00E-03	1.54E-04	2.49E-04	4.00E-03	1.09E-02
6.43E-04	2.77E-03	2.98E-03	1.53E-04	3.95E-03	3.95E-03	1.44E-02	6.43E-04	2.77E-03	2.98E-03	1.53E-04	2.48E-04	3.95E-03	1.07E-02
6.37E-04	2.72E-03	2.96E-03	1.53E-04	3.91E-03	3.91E-03	1.43E-02	6.37E-04	2.72E-03	2.96E-03	1.53E-04	2.47E-04	3.91E-03	1.06E-02
6.31E-04	2.68E-03	2.95E-03	1.52E-04	3.87E-03	3.87E-03	1.41E-02	6.31E-04	2.68E-03	2.95E-03	1.52E-04	2.46E-04	3.87E-03	1.05E-02

6.26E-04	2.64E-03	2.93E-03	1.51E-04	3.84E-03	3.84E-03	1.40E-02	6.26E-04	2.64E-03	2.93E-03	1.51E-04	2.45E-04	3.84E-03	1.04E-02
6.19E-04	2.59E-03	2.91E-03	1.50E-04	3.79E-03	3.79E-03	1.39E-02	6.19E-04	2.59E-03	2.91E-03	1.50E-04	2.44E-04	3.79E-03	1.03E-02
6.12E-04	2.54E-03	2.90E-03	1.50E-04	3.75E-03	3.75E-03	1.37E-02	6.12E-04	2.54E-03	2.90E-03	1.50E-04	2.43E-04	3.75E-03	1.02E-02
6.08E-04	2.50E-03	2.88E-03	1.49E-04	3.72E-03	3.72E-03	1.36E-02	6.08E-04	2.50E-03	2.88E-03	1.49E-04	2.43E-04	3.72E-03	1.01E-02
6.01E-04	2.46E-03	2.86E-03	1.48E-04	3.67E-03	3.67E-03	1.34E-02	6.01E-04	2.46E-03	2.86E-03	1.48E-04	2.42E-04	3.67E-03	9.98E-03
5.97E-04	2.43E-03	2.85E-03	1.47E-04	3.64E-03	3.64E-03	1.33E-02	5.97E-04	2.43E-03	2.85E-03	1.47E-04	2.41E-04	3.64E-03	9.91E-03
5.91E-04	2.38E-03	2.83E-03	1.47E-04	3.61E-03	3.61E-03	1.32E-02	5.91E-04	2.38E-03	2.83E-03	1.47E-04	2.40E-04	3.61E-03	9.80E-03
5.85E-04	2.34E-03	2.81E-03	1.46E-04	3.56E-03	3.56E-03	1.30E-02	5.85E-04	2.34E-03	2.81E-03	1.46E-04	2.39E-04	3.56E-03	9.68E-03
5.79E-04	2.30E-03	2.80E-03	1.45E-04	3.52E-03	3.52E-03	1.29E-02	5.79E-04	2.30E-03	2.80E-03	1.45E-04	2.38E-04	3.52E-03	9.58E-03
5.72E-04	2.25E-03	2.77E-03	1.44E-04	3.47E-03	3.47E-03	1.27E-02	5.72E-04	2.25E-03	2.77E-03	1.44E-04	2.37E-04	3.47E-03	9.44E-03
5.67E-04	2.22E-03	2.76E-03	1.43E-04	3.44E-03	3.44E-03	1.26E-02	5.67E-04	2.22E-03	2.76E-03	1.43E-04	2.36E-04	3.44E-03	9.36E-03
5.65E-04	2.20E-03	2.75E-03	1.43E-04	3.42E-03	3.42E-03	1.25E-02	5.65E-04	2.20E-03	2.75E-03	1.43E-04	2.35E-04	3.42E-03	9.32E-03
5.58E-04	2.16E-03	2.73E-03	1.42E-04	3.38E-03	3.38E-03	1.23E-02	5.58E-04	2.16E-03	2.73E-03	1.42E-04	2.34E-04	3.38E-03	9.20E-03
7.47E-04	3.53E-03	3.13E-03	1.60E-04	4.50E-03	4.50E-03	1.66E-02	7.47E-04	3.53E-03	3.13E-03	1.60E-04	2.56E-04	4.50E-03	1.23E-02
7.37E-04	3.45E-03	3.11E-03	1.59E-04	4.44E-03	4.44E-03	1.63E-02	7.37E-04	3.45E-03	3.11E-03	1.59E-04	2.55E-04	4.44E-03	1.22E-02
7.25E-04	3.36E-03	3.09E-03	1.59E-04	4.38E-03	4.38E-03	1.61E-02	7.25E-04	3.36E-03	3.09E-03	1.59E-04	2.54E-04	4.38E-03	1.20E-02
7.17E-04	3.29E-03	3.07E-03	1.58E-04	4.33E-03	4.33E-03	1.59E-02	7.17E-04	3.29E-03	3.07E-03	1.58E-04	2.53E-04	4.33E-03	1.18E-02
7.14E-04	3.26E-03	3.07E-03	1.57E-04	4.31E-03	4.31E-03	1.58E-02	7.14E-04	3.26E-03	3.07E-03	1.57E-04	2.52E-04	4.31E-03	1.18E-02
7.13E-04	3.25E-03	3.06E-03	1.57E-04	4.31E-03	4.31E-03	1.58E-02	7.13E-04	3.25E-03	3.06E-03	1.57E-04	2.51E-04	4.31E-03	1.17E-02
6.97E-04	3.13E-03	3.03E-03	1.56E-04	4.21E-03	4.21E-03	1.54E-02	6.97E-04	3.13E-03	3.03E-03	1.56E-04	2.50E-04	4.21E-03	1.15E-02
6.93E-04	3.10E-03	3.02E-03	1.55E-04	4.19E-03	4.19E-03	1.54E-02	6.93E-04	3.10E-03	3.02E-03	1.55E-04	2.49E-04	4.19E-03	1.14E-02
6.81E-04	3.02E-03	3.00E-03	1.54E-04	4.12E-03	4.12E-03	1.51E-02	6.81E-04	3.02E-03	3.00E-03	1.54E-04	2.48E-04	4.12E-03	1.12E-02
6.80E-04	3.00E-03	3.00E-03	1.54E-04	4.11E-03	4.11E-03	1.51E-02	6.80E-04	3.00E-03	3.00E-03	1.54E-04	2.47E-04	4.11E-03	1.12E-02
6.73E-04	2.95E-03	2.98E-03	1.53E-04	4.07E-03	4.07E-03	1.49E-02	6.73E-04	2.95E-03	2.98E-03	1.53E-04	2.46E-04	4.07E-03	1.11E-02
6.68E-04	2.91E-03	2.97E-03	1.52E-04	4.04E-03	4.04E-03	1.48E-02	6.68E-04	2.91E-03	2.97E-03	1.52E-04	2.46E-04	4.04E-03	1.10E-02
6.60E-04	2.85E-03	2.95E-03	1.52E-04	3.99E-03	3.99E-03	1.46E-02	6.60E-04	2.85E-03	2.95E-03	1.52E-04	2.45E-04	3.99E-03	1.08E-02
6.54E-04	2.80E-03	2.94E-03	1.51E-04	3.95E-03	3.95E-03	1.44E-02	6.54E-04	2.80E-03	2.94E-03	1.51E-04	2.44E-04	3.95E-03	1.07E-02
6.48E-04	2.75E-03	2.92E-03	1.50E-04	3.91E-03	3.91E-03	1.43E-02	6.48E-04	2.75E-03	2.92E-03	1.50E-04	2.43E-04	3.91E-03	1.06E-02
6.42E-04	2.71E-03	2.91E-03	1.49E-04	3.88E-03	3.88E-03	1.42E-02	6.42E-04	2.71E-03	2.91E-03	1.49E-04	2.42E-04	3.88E-03	1.05E-02
6.34E-04	2.66E-03	2.89E-03	1.49E-04	3.83E-03	3.83E-03	1.40E-02	6.34E-04	2.66E-03	2.89E-03	1.49E-04	2.41E-04	3.83E-03	1.04E-02
6.28E-04	2.61E-03	2.88E-03	1.48E-04	3.79E-03	3.79E-03	1.38E-02	6.28E-04	2.61E-03	2.88E-03	1.48E-04	2.40E-04	3.79E-03	1.03E-02
6.23E-04	2.57E-03	2.86E-03	1.47E-04	3.75E-03	3.75E-03	1.37E-02	6.23E-04	2.57E-03	2.86E-03	1.47E-04	2.40E-04	3.75E-03	1.02E-02
6.16E-04	2.52E-03	2.84E-03	1.47E-04	3.71E-03	3.71E-03	1.36E-02	6.16E-04	2.52E-03	2.84E-03	1.47E-04	2.39E-04	3.71E-03	1.01E-02
6.11E-04	2.49E-03	2.83E-03	1.46E-04	3.68E-03	3.68E-03	1.34E-02	6.11E-04	2.49E-03	2.83E-03	1.46E-04	2.38E-04	3.68E-03	9.99E-03
6.06E-04	2.45E-03	2.82E-03	1.45E-04	3.64E-03	3.64E-03	1.33E-02	6.06E-04	2.45E-03	2.82E-03	1.45E-04	2.37E-04	3.64E-03	9.90E-03
6.00E-04	2.40E-03	2.80E-03	1.44E-04	3.60E-03	3.60E-03	1.31E-02	6.00E-04	2.40E-03	2.80E-03	1.44E-04	2.36E-04	3.60E-03	9.78E-03
5.93E-04	2.36E-03	2.78E-03	1.44E-04	3.56E-03	3.56E-03	1.30E-02	5.93E-04	2.36E-03	2.78E-03	1.44E-04	2.35E-04	3.56E-03	9.67E-03
5.86E-04	2.31E-03	2.76E-03	1.43E-04	3.51E-03	3.51E-03	1.28E-02	5.86E-04	2.31E-03	2.76E-03	1.43E-04	2.34E-04	3.51E-03	9.54E-03
5.82E-04	2.28E-03	2.75E-03	1.42E-04	3.48E-03	3.48E-03	1.27E-02	5.82E-04	2.28E-03	2.75E-03	1.42E-04	2.34E-04	3.48E-03	9.47E-03
5.78E-04	2.25E-03	2.74E-03	1.42E-04	3.46E-03	3.46E-03	1.26E-02	5.78E-04	2.25E-03	2.74E-03	1.42E-04	2.33E-04	3.46E-03	9.40E-03
5.72E-04	2.21E-03	2.72E-03	1.41E-04	3.41E-03	3.41E-03	1.25E-02	5.72E-04	2.21E-03	2.72E-03	1.41E-04	2.32E-04	3.41E-03	9.28E-03
7.64E-04	3.60E-03	3.09E-03	1.58E-04	4.51E-03	4.51E-03	1.66E-02	7.64E-04	3.60E-03	3.09E-03	1.58E-04	2.53E-04	4.51E-03	1.24E-02
7.49E-04	3.48E-03	3.06E-03	1.57E-04	4.43E-03	4.43E-03	1.63E-02	7.49E-04	3.48E-03	3.06E-03	1.57E-04	2.51E-04	4.43E-03	1.21E-02
7.43E-04	3.44E-03	3.05E-03	1.56E-04	4.40E-03	4.40E-03	1.62E-02	7.43E-04	3.44E-03	3.05E-03	1.56E-04	2.50E-04	4.40E-03	1.20E-02
7.35E-04	3.38E-03	3.04E-03	1.55E-04	4.35E-03	4.35E-03	1.60E-02	7.35E-04	3.38E-03	3.04E-03	1.55E-04	2.49E-04	4.35E-03	1.19E-02
7.30E-04	3.33E-03	3.03E-03	1.55E-04	4.32E-03	4.32E-03	1.59E-02	7.30E-04	3.33E-03	3.03E-03	1.55E-04	2.49E-04	4.32E-03	1.18E-02
7.30E-04	3.33E-03	3.03E-03	1.54E-04	4.33E-03	4.33E-03	1.59E-02	7.30E-04	3.33E-03	3.03E-03	1.54E-04	2.48E-04	4.33E-03	1.18E-02
7.13E-04	3.20E-03	3.00E-03	1.53E-04	4.23E-03	4.23E-03	1.55E-02	7.13E-04	3.20E-03	3.00E-03	1.53E-04	2.47E-04	4.23E-03	1.15E-02
7.13E-04	3.19E-03	2.99E-03	1.53E-04	4.23E-03	4.23E-03	1.55E-02	7.13E-04	3.19E-03	2.99E-03	1.53E-04	2.46E-04	4.23E-03	1.15E-02
6.97E-04	3.08E-03	2.96E-03	1.52E-04	4.14E-03	4.14E-03	1.52E-02	6.97E-04	3.08E-03	2.96E-03	1.52E-04	2.45E-04	4.14E-03	1.13E-02
6.94E-04	3.05E-03	2.96E-03	1.51E-04	4.12E-03	4.12E-03	1.51E-02	6.94E-04	3.05E-03	2.96E-03	1.51E-04	2.44E-04	4.12E-03	1.12E-02
6.91E-04	3.03E-03	2.95E-03	1.51E-04	4.10E-03	4.10E-03	1.50E-02	6.91E-04	3.03E-03	2.95E-03	1.51E-04	2.43E-04	4.10E-03	1.12E-02
6.86E-04	2.98E-03	2.94E-03	1.50E-04	4.07E-03	4.07E-03	1.49E-02	6.86E-04	2.98E-03	2.94E-03	1.50E-04	2.42E-04	4.07E-03	1.11E-02
6.77E-04	2.92E-03	2.92E-03	1.49E-04	4.02E-03	4.02E-03	1.47E-02	6.77E-04	2.92E-03	2.92E-03	1.49E-04	2.41E-04	4.02E-03	1.09E-02

6.72E-04	2.88E-03	2.91E-03	1.49E-04	3.99E-03	3.99E-03	1.46E-02	6.72E-04	2.88E-03	2.91E-03	1.49E-04	2.41E-04	3.99E-03	1.08E-02
6.64E-04	2.82E-03	2.90E-03	1.48E-04	3.94E-03	3.94E-03	1.44E-02	6.64E-04	2.82E-03	2.90E-03	1.48E-04	2.40E-04	3.94E-03	1.07E-02
6.57E-04	2.77E-03	2.88E-03	1.47E-04	3.90E-03	3.90E-03	1.43E-02	6.57E-04	2.77E-03	2.88E-03	1.47E-04	2.39E-04	3.90E-03	1.06E-02
6.50E-04	2.71E-03	2.86E-03	1.47E-04	3.85E-03	3.85E-03	1.41E-02	6.50E-04	2.71E-03	2.86E-03	1.47E-04	2.38E-04	3.85E-03	1.05E-02
6.42E-04	2.66E-03	2.85E-03	1.46E-04	3.81E-03	3.81E-03	1.39E-02	6.42E-04	2.66E-03	2.85E-03	1.46E-04	2.37E-04	3.81E-03	1.03E-02
6.38E-04	2.63E-03	2.84E-03	1.45E-04	3.78E-03	3.78E-03	1.38E-02	6.38E-04	2.63E-03	2.84E-03	1.45E-04	2.36E-04	3.78E-03	1.03E-02
6.30E-04	2.57E-03	2.82E-03	1.45E-04	3.73E-03	3.73E-03	1.36E-02	6.30E-04	2.57E-03	2.82E-03	1.45E-04	2.35E-04	3.73E-03	1.01E-02
6.25E-04	2.54E-03	2.81E-03	1.44E-04	3.70E-03	3.70E-03	1.35E-02	6.25E-04	2.54E-03	2.81E-03	1.44E-04	2.35E-04	3.70E-03	1.00E-02
6.19E-04	2.49E-03	2.79E-03	1.43E-04	3.66E-03	3.66E-03	1.34E-02	6.19E-04	2.49E-03	2.79E-03	1.43E-04	2.34E-04	3.66E-03	9.94E-03
6.12E-04	2.44E-03	2.77E-03	1.43E-04	3.62E-03	3.62E-03	1.32E-02	6.12E-04	2.44E-03	2.77E-03	1.43E-04	2.33E-04	3.62E-03	9.82E-03
6.06E-04	2.40E-03	2.76E-03	1.42E-04	3.58E-03	3.58E-03	1.31E-02	6.06E-04	2.40E-03	2.76E-03	1.42E-04	2.32E-04	3.58E-03	9.71E-03
6.01E-04	2.37E-03	2.75E-03	1.41E-04	3.55E-03	3.55E-03	1.30E-02	6.01E-04	2.37E-03	2.75E-03	1.41E-04	2.32E-04	3.55E-03	9.64E-03
5.97E-04	2.34E-03	2.73E-03	1.41E-04	3.52E-03	3.52E-03	1.28E-02	5.97E-04	2.34E-03	2.73E-03	1.41E-04	2.31E-04	3.52E-03	9.56E-03
5.91E-04	2.29E-03	2.72E-03	1.40E-04	3.48E-03	3.48E-03	1.27E-02	5.91E-04	2.29E-03	2.72E-03	1.40E-04	2.30E-04	3.48E-03	9.45E-03
5.85E-04	2.25E-03	2.70E-03	1.39E-04	3.44E-03	3.44E-03	1.25E-02	5.85E-04	2.25E-03	2.70E-03	1.39E-04	2.29E-04	3.44E-03	9.34E-03
7.84E-04	3.68E-03	3.05E-03	1.55E-04	4.53E-03	4.53E-03	1.67E-02	7.84E-04	3.68E-03	3.05E-03	1.55E-04	2.50E-04	4.53E-03	1.25E-02
7.72E-04	3.60E-03	3.03E-03	1.54E-04	4.47E-03	4.47E-03	1.65E-02	7.72E-04	3.60E-03	3.03E-03	1.54E-04	2.49E-04	4.47E-03	1.23E-02
7.62E-04	3.52E-03	3.01E-03	1.54E-04	4.42E-03	4.42E-03	1.63E-02	7.62E-04	3.52E-03	3.01E-03	1.54E-04	2.47E-04	4.42E-03	1.21E-02
7.53E-04	3.45E-03	3.00E-03	1.53E-04	4.37E-03	4.37E-03	1.61E-02	7.53E-04	3.45E-03	3.00E-03	1.53E-04	2.46E-04	4.37E-03	1.20E-02
7.48E-04	3.40E-03	2.99E-03	1.52E-04	4.34E-03	4.34E-03	1.60E-02	7.48E-04	3.40E-03	2.99E-03	1.52E-04	2.45E-04	4.34E-03	1.19E-02
7.51E-04	3.41E-03	2.99E-03	1.52E-04	4.36E-03	4.36E-03	1.60E-02	7.51E-04	3.41E-03	2.99E-03	1.52E-04	2.46E-04	4.36E-03	1.19E-02
7.35E-04	3.30E-03	2.97E-03	1.51E-04	4.27E-03	4.27E-03	1.57E-02	7.35E-04	3.30E-03	2.97E-03	1.51E-04	2.44E-04	4.27E-03	1.17E-02
7.34E-04	3.28E-03	2.96E-03	1.51E-04	4.26E-03	4.26E-03	1.56E-02	7.34E-04	3.28E-03	2.96E-03	1.51E-04	2.44E-04	4.26E-03	1.16E-02
7.19E-04	3.18E-03	2.94E-03	1.50E-04	4.18E-03	4.18E-03	1.53E-02	7.19E-04	3.18E-03	2.94E-03	1.50E-04	2.42E-04	4.18E-03	1.14E-02
7.14E-04	3.13E-03	2.93E-03	1.49E-04	4.15E-03	4.15E-03	1.52E-02	7.14E-04	3.13E-03	2.93E-03	1.49E-04	2.41E-04	4.15E-03	1.13E-02
7.08E-04	3.09E-03	2.92E-03	1.49E-04	4.12E-03	4.12E-03	1.51E-02	7.08E-04	3.09E-03	2.92E-03	1.49E-04	2.40E-04	4.12E-03	1.12E-02
7.05E-04	3.05E-03	2.91E-03	1.48E-04	4.10E-03	4.10E-03	1.50E-02	7.05E-04	3.05E-03	2.91E-03	1.48E-04	2.39E-04	4.10E-03	1.12E-02
6.95E-04	2.99E-03	2.89E-03	1.47E-04	4.05E-03	4.05E-03	1.48E-02	6.95E-04	2.99E-03	2.89E-03	1.47E-04	2.38E-04	4.05E-03	1.10E-02
6.87E-04	2.93E-03	2.88E-03	1.47E-04	4.00E-03	4.00E-03	1.46E-02	6.87E-04	2.93E-03	2.88E-03	1.47E-04	2.38E-04	4.00E-03	1.09E-02
6.80E-04	2.87E-03	2.86E-03	1.46E-04	3.96E-03	3.96E-03	1.45E-02	6.80E-04	2.87E-03	2.86E-03	1.46E-04	2.37E-04	3.96E-03	1.08E-02
6.74E-04	2.83E-03	2.85E-03	1.45E-04	3.92E-03	3.92E-03	1.43E-02	6.74E-04	2.83E-03	2.85E-03	1.45E-04	2.36E-04	3.92E-03	1.07E-02
6.65E-04	2.77E-03	2.83E-03	1.45E-04	3.87E-03	3.87E-03	1.42E-02	6.65E-04	2.77E-03	2.83E-03	1.45E-04	2.35E-04	3.87E-03	1.05E-02
6.57E-04	2.71E-03	2.82E-03	1.44E-04	3.82E-03	3.82E-03	1.40E-02	6.57E-04	2.71E-03	2.82E-03	1.44E-04	2.34E-04	3.82E-03	1.04E-02
6.50E-04	2.66E-03	2.80E-03	1.43E-04	3.78E-03	3.78E-03	1.38E-02	6.50E-04	2.66E-03	2.80E-03	1.43E-04	2.33E-04	3.78E-03	1.03E-02
6.43E-04	2.61E-03	2.79E-03	1.43E-04	3.74E-03	3.74E-03	1.37E-02	6.43E-04	2.61E-03	2.79E-03	1.43E-04	2.32E-04	3.74E-03	1.02E-02
6.40E-04	2.58E-03	2.78E-03	1.42E-04	3.72E-03	3.72E-03	1.36E-02	6.40E-04	2.58E-03	2.78E-03	1.42E-04	2.32E-04	3.72E-03	1.01E-02
6.34E-04	2.54E-03	2.76E-03	1.42E-04	3.69E-03	3.69E-03	1.35E-02	6.34E-04	2.54E-03	2.76E-03	1.42E-04	2.31E-04	3.69E-03	1.00E-02
6.28E-04	2.49E-03	2.75E-03	1.41E-04	3.64E-03	3.64E-03	1.33E-02	6.28E-04	2.49E-03	2.75E-03	1.41E-04	2.30E-04	3.64E-03	9.88E-03
6.21E-04	2.45E-03	2.73E-03	1.40E-04	3.60E-03	3.60E-03	1.32E-02	6.21E-04	2.45E-03	2.73E-03	1.40E-04	2.29E-04	3.60E-03	9.78E-03
6.15E-04	2.41E-03	2.72E-03	1.40E-04	3.56E-03	3.56E-03	1.30E-02	6.15E-04	2.41E-03	2.72E-03	1.40E-04	2.28E-04	3.56E-03	9.67E-03
6.12E-04	2.38E-03	2.71E-03	1.39E-04	3.55E-03	3.55E-03	1.29E-02	6.12E-04	2.38E-03	2.71E-03	1.39E-04	2.28E-04	3.55E-03	9.62E-03
6.05E-04	2.34E-03	2.70E-03	1.38E-04	3.50E-03	3.50E-03	1.28E-02	6.05E-04	2.34E-03	2.70E-03	1.38E-04	2.27E-04	3.50E-03	9.51E-03
5.98E-04	2.29E-03	2.68E-03	1.38E-04	3.46E-03	3.46E-03	1.26E-02	5.98E-04	2.29E-03	2.68E-03	1.38E-04	2.26E-04	3.46E-03	9.39E-03
8.04E-04	3.75E-03	3.00E-03	1.53E-04	4.54E-03	4.54E-03	1.68E-02	8.04E-04	3.75E-03	3.00E-03	1.53E-04	2.47E-04	4.54E-03	1.25E-02
7.94E-04	3.68E-03	2.99E-03	1.52E-04	4.49E-03	4.49E-03	1.66E-02	7.94E-04	3.68E-03	2.99E-03	1.52E-04	2.46E-04	4.49E-03	1.24E-02
7.80E-04	3.58E-03	2.97E-03	1.51E-04	4.42E-03	4.42E-03	1.63E-02	7.80E-04	3.58E-03	2.97E-03	1.51E-04	2.45E-04	4.42E-03	1.21E-02
7.74E-04	3.52E-03	2.96E-03	1.51E-04	4.39E-03	4.39E-03	1.62E-02	7.74E-04	3.52E-03	2.96E-03	1.51E-04	2.44E-04	4.39E-03	1.20E-02
7.63E-04	3.44E-03	2.94E-03	1.50E-04	4.34E-03	4.34E-03	1.60E-02	7.63E-04	3.44E-03	2.94E-03	1.50E-04	2.43E-04	4.34E-03	1.19E-02
7.70E-04	3.48E-03	2.95E-03	1.50E-04	4.37E-03	4.37E-03	1.61E-02	7.70E-04	3.48E-03	2.95E-03	1.50E-04	2.42E-04	4.37E-03	1.20E-02
7.59E-04	3.39E-03	2.93E-03	1.49E-04	4.31E-03	4.31E-03	1.59E-02	7.59E-04	3.39E-03	2.93E-03	1.49E-04	2.41E-04	4.31E-03	1.18E-02
7.53E-04	3.34E-03	2.92E-03	1.48E-04	4.28E-03	4.28E-03	1.57E-02	7.53E-04	3.34E-03	2.92E-03	1.48E-04	2.40E-04	4.28E-03	1.17E-02
7.32E-04	3.20E-03	2.89E-03	1.47E-04	4.17E-03	4.17E-03	1.53E-02	7.32E-04	3.20E-03	2.89E-03	1.47E-04	2.39E-04	4.17E-03	1.14E-02
7.33E-04	3.20E-03	2.89E-03	1.47E-04	4.17E-03	4.17E-03	1.53E-02	7.33E-04	3.20E-03	2.89E-03	1.47E-04	2.39E-04	4.17E-03	1.14E-02
7.28E-04	3.16E-03	2.88E-03	1.46E-04	4.15E-03	4.15E-03	1.52E-02	7.28E-04	3.16E-03	2.88E-03	1.46E-04	2.38E-04	4.15E-03	1.13E-02

7.25E-04	3.12E-03	2.87E-03	1.46E-04	4.12E-03	4.12E-03	1.51E-02	7.25E-04	3.12E-03	2.87E-03	1.46E-04	2.37E-04	4.12E-03	1.12E-02
7.07E-04	3.01E-03	2.85E-03	1.45E-04	4.03E-03	4.03E-03	1.48E-02	7.07E-04	3.01E-03	2.85E-03	1.45E-04	2.35E-04	4.03E-03	1.10E-02
7.03E-04	2.97E-03	2.84E-03	1.44E-04	4.01E-03	4.01E-03	1.47E-02	7.03E-04	2.97E-03	2.84E-03	1.44E-04	2.34E-04	4.01E-03	1.09E-02
6.94E-04	2.91E-03	2.82E-03	1.44E-04	3.96E-03	3.96E-03	1.45E-02	6.94E-04	2.91E-03	2.82E-03	1.44E-04	2.33E-04	3.96E-03	1.08E-02
6.91E-04	2.88E-03	2.82E-03	1.43E-04	3.94E-03	3.94E-03	1.44E-02	6.91E-04	2.88E-03	2.82E-03	1.43E-04	2.33E-04	3.94E-03	1.07E-02
6.82E-04	2.82E-03	2.80E-03	1.43E-04	3.89E-03	3.89E-03	1.42E-02	6.82E-04	2.82E-03	2.80E-03	1.43E-04	2.32E-04	3.89E-03	1.06E-02
6.74E-04	2.76E-03	2.78E-03	1.42E-04	3.84E-03	3.84E-03	1.40E-02	6.74E-04	2.76E-03	2.78E-03	1.42E-04	2.31E-04	3.84E-03	1.04E-02
6.70E-04	2.73E-03	2.78E-03	1.41E-04	3.82E-03	3.82E-03	1.40E-02	6.70E-04	2.73E-03	2.78E-03	1.41E-04	2.30E-04	3.82E-03	1.04E-02
6.62E-04	2.68E-03	2.76E-03	1.41E-04	3.78E-03	3.78E-03	1.38E-02	6.62E-04	2.68E-03	2.76E-03	1.41E-04	2.29E-04	3.78E-03	1.02E-02
6.57E-04	2.63E-03	2.75E-03	1.40E-04	3.74E-03	3.74E-03	1.37E-02	6.57E-04	2.63E-03	2.75E-03	1.40E-04	2.29E-04	3.74E-03	1.02E-02
6.47E-04	2.57E-03	2.73E-03	1.39E-04	3.68E-03	3.68E-03	1.34E-02	6.47E-04	2.57E-03	2.73E-03	1.39E-04	2.28E-04	3.68E-03	9.99E-03
6.44E-04	2.54E-03	2.72E-03	1.39E-04	3.67E-03	3.67E-03	1.34E-02	6.44E-04	2.54E-03	2.72E-03	1.39E-04	2.27E-04	3.67E-03	9.94E-03
6.38E-04	2.50E-03	2.71E-03	1.38E-04	3.63E-03	3.63E-03	1.32E-02	6.38E-04	2.50E-03	2.71E-03	1.38E-04	2.26E-04	3.63E-03	9.84E-03
6.32E-04	2.46E-03	2.70E-03	1.38E-04	3.59E-03	3.59E-03	1.31E-02	6.32E-04	2.46E-03	2.70E-03	1.38E-04	2.26E-04	3.59E-03	9.75E-03
6.28E-04	2.43E-03	2.69E-03	1.37E-04	3.57E-03	3.57E-03	1.30E-02	6.28E-04	2.43E-03	2.69E-03	1.37E-04	2.25E-04	3.57E-03	9.68E-03
6.21E-04	2.38E-03	2.67E-03	1.37E-04	3.53E-03	3.53E-03	1.29E-02	6.21E-04	2.38E-03	2.67E-03	1.37E-04	2.24E-04	3.53E-03	9.56E-03
6.14E-04	2.34E-03	2.66E-03	1.36E-04	3.48E-03	3.48E-03	1.27E-02	6.14E-04	2.34E-03	2.66E-03	1.36E-04	2.23E-04	3.48E-03	9.45E-03
8.03E-04	3.65E-03	2.93E-03	1.49E-04	4.44E-03	4.44E-03	1.64E-02	8.03E-04	3.65E-03	2.93E-03	1.49E-04	2.41E-04	4.44E-03	1.22E-02
7.93E-04	3.58E-03	2.92E-03	1.48E-04	4.39E-03	4.39E-03	1.62E-02	7.93E-04	3.58E-03	2.92E-03	1.48E-04	2.40E-04	4.39E-03	1.21E-02
7.84E-04	3.51E-03	2.91E-03	1.48E-04	4.35E-03	4.35E-03	1.61E-02	7.84E-04	3.51E-03	2.91E-03	1.48E-04	2.39E-04	4.35E-03	1.19E-02
7.85E-04	3.50E-03	2.90E-03	1.47E-04	4.35E-03	4.35E-03	1.60E-02	7.85E-04	3.50E-03	2.90E-03	1.47E-04	2.39E-04	4.35E-03	1.19E-02
7.80E-04	3.45E-03	2.89E-03	1.47E-04	4.32E-03	4.32E-03	1.59E-02	7.80E-04	3.45E-03	2.89E-03	1.47E-04	2.38E-04	4.32E-03	1.18E-02
7.74E-04	3.40E-03	2.88E-03	1.46E-04	4.29E-03	4.29E-03	1.58E-02	7.74E-04	3.40E-03	2.88E-03	1.46E-04	2.37E-04	4.29E-03	1.17E-02
7.59E-04	3.30E-03	2.86E-03	1.45E-04	4.22E-03	4.22E-03	1.55E-02	7.59E-04	3.30E-03	2.86E-03	1.45E-04	2.36E-04	4.22E-03	1.15E-02
7.53E-04	3.26E-03	2.85E-03	1.45E-04	4.19E-03	4.19E-03	1.54E-02	7.53E-04	3.26E-03	2.85E-03	1.45E-04	2.35E-04	4.19E-03	1.14E-02
7.51E-04	3.23E-03	2.85E-03	1.44E-04	4.17E-03	4.17E-03	1.53E-02	7.51E-04	3.23E-03	2.85E-03	1.44E-04	2.34E-04	4.17E-03	1.14E-02
7.49E-04	3.20E-03	2.84E-03	1.44E-04	4.15E-03	4.15E-03	1.52E-02	7.49E-04	3.20E-03	2.84E-03	1.44E-04	2.34E-04	4.15E-03	1.13E-02
7.37E-04	3.12E-03	2.82E-03	1.43E-04	4.10E-03	4.10E-03	1.50E-02	7.37E-04	3.12E-03	2.82E-03	1.43E-04	2.33E-04	4.10E-03	1.12E-02
7.26E-04	3.04E-03	2.81E-03	1.42E-04	4.04E-03	4.04E-03	1.48E-02	7.26E-04	3.04E-03	2.81E-03	1.42E-04	2.32E-04	4.04E-03	1.10E-02
7.16E-04	2.98E-03	2.79E-03	1.42E-04	3.99E-03	3.99E-03	1.46E-02	7.16E-04	2.98E-03	2.79E-03	1.42E-04	2.31E-04	3.99E-03	1.08E-02
7.08E-04	2.92E-03	2.78E-03	1.41E-04	3.95E-03	3.95E-03	1.44E-02	7.08E-04	2.92E-03	2.78E-03	1.41E-04	2.30E-04	3.95E-03	1.07E-02
6.98E-04	2.85E-03	2.76E-03	1.41E-04	3.89E-03	3.89E-03	1.42E-02	6.98E-04	2.85E-03	2.76E-03	1.41E-04	2.30E-04	3.89E-03	1.06E-02
6.91E-04	2.80E-03	2.75E-03	1.40E-04	3.86E-03	3.86E-03	1.41E-02	6.91E-04	2.80E-03	2.75E-03	1.40E-04	2.28E-04	3.86E-03	1.05E-02
6.83E-04	2.75E-03	2.74E-03	1.39E-04	3.81E-03	3.81E-03	1.39E-02	6.83E-04	2.75E-03	2.74E-03	1.39E-04	2.27E-04	3.81E-03	1.03E-02
6.78E-04	2.71E-03	2.73E-03	1.39E-04	3.78E-03	3.78E-03	1.38E-02	6.78E-04	2.71E-03	2.73E-03	1.39E-04	2.26E-04	3.78E-03	1.03E-02
6.73E-04	2.67E-03	2.72E-03	1.38E-04	3.75E-03	3.75E-03	1.37E-02	6.73E-04	2.67E-03	2.72E-03	1.38E-04	2.26E-04	3.75E-03	1.02E-02
6.68E-04	2.63E-03	2.71E-03	1.38E-04	3.72E-03	3.72E-03	1.36E-02	6.68E-04	2.63E-03	2.71E-03	1.38E-04	2.25E-04	3.72E-03	1.01E-02
6.62E-04	2.59E-03	2.69E-03	1.37E-04	3.69E-03	3.69E-03	1.35E-02	6.62E-04	2.59E-03	2.69E-03	1.37E-04	2.24E-04	3.69E-03	1.00E-02
6.55E-04	2.54E-03	2.68E-03	1.36E-04	3.65E-03	3.65E-03	1.33E-02	6.55E-04	2.54E-03	2.68E-03	1.36E-04	2.23E-04	3.65E-03	9.89E-03
6.50E-04	2.51E-03	2.67E-03	1.36E-04	3.62E-03	3.62E-03	1.32E-02	6.50E-04	2.51E-03	2.67E-03	1.36E-04	2.23E-04	3.62E-03	9.81E-03
6.44E-04	2.47E-03	2.66E-03	1.35E-04	3.59E-03	3.59E-03	1.31E-02	6.44E-04	2.47E-03	2.66E-03	1.35E-04	2.22E-04	3.59E-03	9.72E-03
6.37E-04	2.43E-03	2.65E-03	1.35E-04	3.55E-03	3.55E-03	1.29E-02	6.37E-04	2.43E-03	2.65E-03	1.35E-04	2.21E-04	3.55E-03	9.61E-03
6.29E-04	2.38E-03	2.63E-03	1.34E-04	3.50E-03	3.50E-03	1.28E-02	6.29E-04	2.38E-03	2.63E-03	1.34E-04	2.21E-04	3.50E-03	9.49E-03
8.16E-04	3.66E-03	2.89E-03	1.46E-04	4.41E-03	4.41E-03	1.63E-02	8.16E-04	3.66E-03	2.89E-03	1.46E-04	2.38E-04	4.41E-03	1.22E-02
8.16E-04	3.64E-03	2.88E-03	1.46E-04	4.40E-03	4.40E-03	1.63E-02	8.16E-04	3.64E-03	2.88E-03	1.46E-04	2.37E-04	4.40E-03	1.21E-02
8.02E-04	3.54E-03	2.86E-03	1.45E-04	4.34E-03	4.34E-03	1.60E-02	8.02E-04	3.54E-03	2.86E-03	1.45E-04	2.36E-04	4.34E-03	1.19E-02
7.97E-04	3.50E-03	2.86E-03	1.45E-04	4.32E-03	4.32E-03	1.59E-02	7.97E-04	3.50E-03	2.86E-03	1.45E-04	2.35E-04	4.32E-03	1.18E-02
7.98E-04	3.48E-03	2.85E-03	1.44E-04	4.31E-03	4.31E-03	1.59E-02	7.98E-04	3.48E-03	2.85E-03	1.44E-04	2.34E-04	4.31E-03	1.18E-02
7.93E-04	3.44E-03	2.84E-03	1.44E-04	4.28E-03	4.28E-03	1.58E-02	7.93E-04	3.44E-03	2.84E-03	1.44E-04	2.33E-04	4.28E-03	1.17E-02
7.79E-04	3.35E-03	2.83E-03	1.43E-04	4.22E-03	4.22E-03	1.55E-02	7.79E-04	3.35E-03	2.83E-03	1.43E-04	2.33E-04	4.22E-03	1.16E-02
7.74E-04	3.30E-03	2.82E-03	1.42E-04	4.19E-03	4.19E-03	1.54E-02	7.74E-04	3.30E-03	2.82E-03	1.42E-04	2.32E-04	4.19E-03	1.15E-02
7.69E-04	3.25E-03	2.81E-03	1.42E-04	4.17E-03	4.17E-03	1.53E-02	7.69E-04	3.25E-03	2.81E-03	1.42E-04	2.31E-04	4.17E-03	1.14E-02
7.73E-04	3.26E-03	2.80E-03	1.41E-04	4.18E-03	4.18E-03	1.53E-02	7.73E-04	3.26E-03	2.80E-03	1.41E-04	2.30E-04	4.18E-03	1.14E-02
7.50E-04	3.13E-03	2.78E-03	1.41E-04	4.08E-03	4.08E-03	1.49E-02	7.50E-04	3.13E-03	2.78E-03	1.41E-04	2.29E-04	4.08E-03	1.11E-02

7.44E-04	3.08E-03	2.77E-03	1.40E-04	4.04E-03	4.04E-03	1.48E-02	7.44E-04	3.08E-03	2.77E-03	1.40E-04	2.29E-04	4.04E-03	1.10E-02
7.34E-04	3.01E-03	2.76E-03	1.40E-04	3.99E-03	3.99E-03	1.46E-02	7.34E-04	3.01E-03	2.76E-03	1.40E-04	2.28E-04	3.99E-03	1.09E-02
7.25E-04	2.95E-03	2.74E-03	1.39E-04	3.95E-03	3.95E-03	1.45E-02	7.25E-04	2.95E-03	2.74E-03	1.39E-04	2.27E-04	3.95E-03	1.07E-02
7.14E-04	2.88E-03	2.73E-03	1.38E-04	3.89E-03	3.89E-03	1.42E-02	7.14E-04	2.88E-03	2.73E-03	1.38E-04	2.26E-04	3.89E-03	1.06E-02
7.09E-04	2.84E-03	2.72E-03	1.38E-04	3.86E-03	3.86E-03	1.41E-02	7.09E-04	2.84E-03	2.72E-03	1.38E-04	2.26E-04	3.86E-03	1.05E-02
7.02E-04	2.79E-03	2.71E-03	1.37E-04	3.83E-03	3.83E-03	1.40E-02	7.02E-04	2.79E-03	2.71E-03	1.37E-04	2.25E-04	3.83E-03	1.04E-02
6.96E-04	2.74E-03	2.69E-03	1.37E-04	3.79E-03	3.79E-03	1.38E-02	6.96E-04	2.74E-03	2.69E-03	1.37E-04	2.24E-04	3.79E-03	1.03E-02
6.89E-04	2.70E-03	2.68E-03	1.36E-04	3.76E-03	3.76E-03	1.37E-02	6.89E-04	2.70E-03	2.68E-03	1.36E-04	2.23E-04	3.76E-03	1.02E-02
6.85E-04	2.67E-03	2.67E-03	1.36E-04	3.73E-03	3.73E-03	1.36E-02	6.85E-04	2.67E-03	2.67E-03	1.36E-04	2.23E-04	3.73E-03	1.01E-02
6.79E-04	2.62E-03	2.66E-03	1.35E-04	3.70E-03	3.70E-03	1.35E-02	6.79E-04	2.62E-03	2.66E-03	1.35E-04	2.22E-04	3.70E-03	1.00E-02
6.69E-04	2.56E-03	2.65E-03	1.34E-04	3.65E-03	3.65E-03	1.33E-02	6.69E-04	2.56E-03	2.65E-03	1.34E-04	2.21E-04	3.65E-03	9.88E-03
6.65E-04	2.54E-03	2.64E-03	1.34E-04	3.62E-03	3.62E-03	1.32E-02	6.65E-04	2.54E-03	2.64E-03	1.34E-04	2.20E-04	3.62E-03	9.82E-03
6.61E-04	2.51E-03	2.63E-03	1.33E-04	3.60E-03	3.60E-03	1.31E-02	6.61E-04	2.51E-03	2.63E-03	1.33E-04	2.19E-04	3.60E-03	9.75E-03
6.52E-04	2.45E-03	2.61E-03	1.33E-04	3.55E-03	3.55E-03	1.30E-02	6.52E-04	2.45E-03	2.61E-03	1.33E-04	2.18E-04	3.55E-03	9.62E-03
6.47E-04	2.41E-03	2.60E-03	1.32E-04	3.52E-03	3.52E-03	1.28E-02	6.47E-04	2.41E-03	2.60E-03	1.32E-04	2.18E-04	3.52E-03	9.53E-03
8.00E-04	3.32E-03	2.78E-03	1.39E-04	4.19E-03	4.19E-03	1.54E-02	8.00E-04	3.32E-03	2.78E-03	1.39E-04	2.26E-04	4.19E-03	1.15E-02
7.74E-04	3.17E-03	2.74E-03	1.38E-04	4.09E-03	4.09E-03	1.50E-02	7.74E-04	3.17E-03	2.74E-03	1.38E-04	2.26E-04	4.09E-03	1.11E-02
7.64E-04	3.11E-03	2.73E-03	1.38E-04	4.04E-03	4.04E-03	1.48E-02	7.64E-04	3.11E-03	2.73E-03	1.38E-04	2.25E-04	4.04E-03	1.10E-02
7.54E-04	3.04E-03	2.72E-03	1.37E-04	3.99E-03	3.99E-03	1.46E-02	7.54E-04	3.04E-03	2.72E-03	1.37E-04	2.25E-04	3.99E-03	1.09E-02
7.44E-04	2.98E-03	2.71E-03	1.37E-04	3.95E-03	3.95E-03	1.45E-02	7.44E-04	2.98E-03	2.71E-03	1.37E-04	2.24E-04	3.95E-03	1.07E-02
7.36E-04	2.93E-03	2.69E-03	1.36E-04	3.91E-03	3.91E-03	1.43E-02	7.36E-04	2.93E-03	2.69E-03	1.36E-04	2.23E-04	3.91E-03	1.06E-02
7.30E-04	2.88E-03	2.68E-03	1.36E-04	3.87E-03	3.87E-03	1.42E-02	7.30E-04	2.88E-03	2.68E-03	1.36E-04	2.22E-04	3.87E-03	1.05E-02
7.22E-04	2.82E-03	2.67E-03	1.35E-04	3.83E-03	3.83E-03	1.40E-02	7.22E-04	2.82E-03	2.67E-03	1.35E-04	2.22E-04	3.83E-03	1.04E-02
7.16E-04	2.78E-03	2.66E-03	1.35E-04	3.80E-03	3.80E-03	1.39E-02	7.16E-04	2.78E-03	2.66E-03	1.35E-04	2.21E-04	3.80E-03	1.03E-02
7.09E-04	2.74E-03	2.65E-03	1.34E-04	3.77E-03	3.77E-03	1.38E-02	7.09E-04	2.74E-03	2.65E-03	1.34E-04	2.20E-04	3.77E-03	1.02E-02
7.04E-04	2.70E-03	2.64E-03	1.34E-04	3.74E-03	3.74E-03	1.37E-02	7.04E-04	2.70E-03	2.64E-03	1.34E-04	2.20E-04	3.74E-03	1.01E-02
6.97E-04	2.65E-03	2.63E-03	1.33E-04	3.70E-03	3.70E-03	1.35E-02	6.97E-04	2.65E-03	2.63E-03	1.33E-04	2.19E-04	3.70E-03	1.00E-02
6.91E-04	2.61E-03	2.62E-03	1.33E-04	3.67E-03	3.67E-03	1.34E-02	6.91E-04	2.61E-03	2.62E-03	1.33E-04	2.18E-04	3.67E-03	9.94E-03
6.83E-04	2.56E-03	2.61E-03	1.32E-04	3.63E-03	3.63E-03	1.32E-02	6.83E-04	2.56E-03	2.61E-03	1.32E-04	2.18E-04	3.63E-03	9.83E-03
6.78E-04	2.53E-03	2.60E-03	1.32E-04	3.60E-03	3.60E-03	1.31E-02	6.78E-04	2.53E-03	2.60E-03	1.32E-04	2.17E-04	3.60E-03	9.75E-03
6.71E-04	2.48E-03	2.58E-03	1.31E-04	3.57E-03	3.57E-03	1.30E-02	6.71E-04	2.48E-03	2.58E-03	1.31E-04	2.16E-04	3.57E-03	9.65E-03
6.63E-04	2.44E-03	2.57E-03	1.30E-04	3.53E-03	3.53E-03	1.29E-02	6.63E-04	2.44E-03	2.57E-03	1.30E-04	2.16E-04	3.53E-03	9.54E-03
4.68E-04	1.73E-03	2.66E-03	1.44E-04	3.01E-03	3.01E-03	1.10E-02	4.68E-04	1.73E-03	2.66E-03	1.44E-04	2.40E-04	3.01E-03	8.25E-03
4.59E-04	1.68E-03	2.61E-03	1.42E-04	2.94E-03	2.94E-03	1.08E-02	4.59E-04	1.68E-03	2.61E-03	1.42E-04	2.36E-04	2.94E-03	8.07E-03
4.53E-04	1.65E-03	2.57E-03	1.40E-04	2.89E-03	2.89E-03	1.06E-02	4.53E-04	1.65E-03	2.57E-03	1.40E-04	2.34E-04	2.89E-03	7.93E-03
4.47E-04	1.61E-03	2.54E-03	1.39E-04	2.84E-03	2.84E-03	1.04E-02	4.47E-04	1.61E-03	2.54E-03	1.39E-04	2.32E-04	2.84E-03	7.81E-03
4.47E-04	1.61E-03	2.56E-03	1.39E-04	2.85E-03	2.85E-03	1.05E-02	4.47E-04	1.61E-03	2.56E-03	1.39E-04	2.33E-04	2.85E-03	7.84E-03
4.46E-04	1.60E-03	2.57E-03	1.39E-04	2.85E-03	2.85E-03	1.05E-02	4.46E-04	1.60E-03	2.57E-03	1.39E-04	2.34E-04	2.85E-03	7.84E-03
4.41E-04	1.57E-03	2.55E-03	1.38E-04	2.81E-03	2.81E-03	1.03E-02	4.41E-04	1.57E-03	2.55E-03	1.38E-04	2.32E-04	2.81E-03	7.74E-03
4.36E-04	1.54E-03	2.52E-03	1.37E-04	2.77E-03	2.77E-03	1.02E-02	4.36E-04	1.54E-03	2.52E-03	1.37E-04	2.31E-04	2.77E-03	7.63E-03
4.89E-04	1.84E-03	2.69E-03	1.45E-04	3.11E-03	3.11E-03	1.14E-02	4.89E-04	1.84E-03	2.69E-03	1.45E-04	2.40E-04	3.11E-03	8.52E-03
4.82E-04	1.80E-03	2.66E-03	1.43E-04	3.05E-03	3.05E-03	1.12E-02	4.82E-04	1.80E-03	2.66E-03	1.43E-04	2.37E-04	3.05E-03	8.37E-03
4.73E-04	1.75E-03	2.61E-03	1.41E-04	2.98E-03	2.98E-03	1.09E-02	4.73E-04	1.75E-03	2.61E-03	1.41E-04	2.34E-04	2.98E-03	8.20E-03
4.66E-04	1.70E-03	2.58E-03	1.39E-04	2.93E-03	2.93E-03	1.07E-02	4.66E-04	1.70E-03	2.58E-03	1.39E-04	2.32E-04	2.93E-03	8.05E-03
4.66E-04	1.70E-03	2.59E-03	1.39E-04	2.93E-03	2.93E-03	1.08E-02	4.66E-04	1.70E-03	2.59E-03	1.39E-04	2.32E-04	2.93E-03	8.06E-03
4.64E-04	1.69E-03	2.59E-03	1.39E-04	2.92E-03	2.92E-03	1.07E-02	4.64E-04	1.69E-03	2.59E-03	1.39E-04	2.32E-04	2.92E-03	8.03E-03
4.60E-04	1.66E-03	2.58E-03	1.38E-04	2.90E-03	2.90E-03	1.06E-02	4.60E-04	1.66E-03	2.58E-03	1.38E-04	2.31E-04	2.90E-03	7.98E-03
4.54E-04	1.62E-03	2.54E-03	1.37E-04	2.85E-03	2.85E-03	1.04E-02	4.54E-04	1.62E-03	2.54E-03	1.37E-04	2.29E-04	2.85E-03	7.83E-03
5.11E-04	1.94E-03	2.70E-03	1.43E-04	3.19E-03	3.19E-03	1.17E-02	5.11E-04	1.94E-03	2.70E-03	1.43E-04	2.38E-04	3.19E-03	8.73E-03
5.02E-04	1.89E-03	2.66E-03	1.42E-04	3.12E-03	3.12E-03	1.14E-02	5.02E-04	1.89E-03	2.66E-03	1.42E-04	2.35E-04	3.12E-03	8.55E-03
4.95E-04	1.84E-03	2.64E-03	1.40E-04	3.08E-03	3.08E-03	1.13E-02	4.95E-04	1.84E-03	2.64E-03	1.40E-04	2.33E-04	3.08E-03	8.43E-03
4.87E-04	1.80E-03	2.60E-03	1.39E-04	3.02E-03	3.02E-03	1.11E-02	4.87E-04	1.80E-03	2.60E-03	1.39E-04	2.31E-04	3.02E-03	8.27E-03
4.88E-04	1.80E-03	2.62E-03	1.39E-04	3.03E-03	3.03E-03	1.11E-02	4.88E-04	1.80E-03	2.62E-03	1.39E-04	2.31E-04	3.03E-03	8.30E-03
4.86E-04	1.78E-03	2.62E-03	1.39E-04	3.02E-03	3.02E-03	1.11E-02	4.86E-04	1.78E-03	2.62E-03	1.39E-04	2.31E-04	3.02E-03	8.28E-03

4.80E-04	1.74E-03	2.59E-03	1.37E-04	2.97E-03	2.97E-03	1.09E-02	4.80E-04	1.74E-03	2.59E-03	1.37E-04	2.29E-04	2.97E-03	8.16E-03
4.63E-04	1.64E-03	2.49E-03	1.33E-04	2.83E-03	2.83E-03	1.04E-02	4.63E-04	1.64E-03	2.49E-03	1.33E-04	2.23E-04	2.83E-03	7.78E-03
5.38E-04	2.06E-03	2.72E-03	1.42E-04	3.30E-03	3.30E-03	1.20E-02	5.38E-04	2.06E-03	2.72E-03	1.42E-04	2.36E-04	3.30E-03	8.99E-03
5.27E-04	1.99E-03	2.67E-03	1.41E-04	3.21E-03	3.21E-03	1.18E-02	5.27E-04	1.99E-03	2.67E-03	1.41E-04	2.33E-04	3.21E-03	8.78E-03
5.19E-04	1.94E-03	2.64E-03	1.39E-04	3.15E-03	3.15E-03	1.15E-02	5.19E-04	1.94E-03	2.64E-03	1.39E-04	2.31E-04	3.15E-03	8.62E-03
5.10E-04	1.88E-03	2.61E-03	1.38E-04	3.09E-03	3.09E-03	1.13E-02	5.10E-04	1.88E-03	2.61E-03	1.38E-04	2.29E-04	3.09E-03	8.45E-03
5.09E-04	1.87E-03	2.61E-03	1.37E-04	3.09E-03	3.09E-03	1.13E-02	5.09E-04	1.87E-03	2.61E-03	1.37E-04	2.28E-04	3.09E-03	8.46E-03
5.11E-04	1.88E-03	2.63E-03	1.37E-04	3.11E-03	3.11E-03	1.14E-02	5.11E-04	1.88E-03	2.63E-03	1.37E-04	2.28E-04	3.11E-03	8.49E-03
4.94E-04	1.77E-03	2.55E-03	1.34E-04	2.98E-03	2.98E-03	1.09E-02	4.94E-04	1.77E-03	2.55E-03	1.34E-04	2.24E-04	2.98E-03	8.15E-03
4.77E-04	1.68E-03	2.48E-03	1.32E-04	2.86E-03	2.86E-03	1.05E-02	4.77E-04	1.68E-03	2.48E-03	1.32E-04	2.20E-04	2.86E-03	7.85E-03
5.64E-04	2.16E-03	2.70E-03	1.40E-04	3.37E-03	3.37E-03	1.23E-02	5.64E-04	2.16E-03	2.70E-03	1.40E-04	2.31E-04	3.37E-03	9.17E-03
5.55E-04	2.10E-03	2.67E-03	1.39E-04	3.31E-03	3.31E-03	1.21E-02	5.55E-04	2.10E-03	2.67E-03	1.39E-04	2.30E-04	3.31E-03	9.00E-03
5.45E-04	2.04E-03	2.64E-03	1.37E-04	3.24E-03	3.24E-03	1.18E-02	5.45E-04	2.04E-03	2.64E-03	1.37E-04	2.28E-04	3.24E-03	8.83E-03
5.39E-04	1.99E-03	2.62E-03	1.36E-04	3.20E-03	3.20E-03	1.17E-02	5.39E-04	1.99E-03	2.62E-03	1.36E-04	2.26E-04	3.20E-03	8.71E-03
5.40E-04	2.00E-03	2.63E-03	1.36E-04	3.22E-03	3.22E-03	1.17E-02	5.40E-04	2.00E-03	2.63E-03	1.36E-04	2.26E-04	3.22E-03	8.75E-03
5.24E-04	1.90E-03	2.57E-03	1.34E-04	3.09E-03	3.09E-03	1.13E-02	5.24E-04	1.90E-03	2.57E-03	1.34E-04	2.23E-04	3.09E-03	8.44E-03
4.94E-04	1.73E-03	2.44E-03	1.29E-04	2.87E-03	2.87E-03	1.05E-02	4.94E-04	1.73E-03	2.44E-03	1.29E-04	2.16E-04	2.87E-03	7.87E-03
4.77E-04	1.62E-03	2.34E-03	1.25E-04	2.73E-03	2.73E-03	1.00E-02	4.77E-04	1.62E-03	2.34E-03	1.25E-04	2.10E-04	2.73E-03	7.51E-03
5.91E-04	2.25E-03	2.67E-03	1.37E-04	3.42E-03	3.42E-03	1.25E-02	5.91E-04	2.25E-03	2.67E-03	1.37E-04	2.26E-04	3.42E-03	9.30E-03
5.80E-04	2.18E-03	2.64E-03	1.36E-04	3.35E-03	3.35E-03	1.22E-02	5.80E-04	2.18E-03	2.64E-03	1.36E-04	2.24E-04	3.35E-03	9.11E-03
5.72E-04	2.12E-03	2.62E-03	1.35E-04	3.30E-03	3.30E-03	1.20E-02	5.72E-04	2.12E-03	2.62E-03	1.35E-04	2.23E-04	3.30E-03	8.97E-03
5.71E-04	2.11E-03	2.61E-03	1.34E-04	3.29E-03	3.29E-03	1.20E-02	5.71E-04	2.11E-03	2.61E-03	1.34E-04	2.22E-04	3.29E-03	8.94E-03
5.56E-04	2.01E-03	2.57E-03	1.33E-04	3.19E-03	3.19E-03	1.17E-02	5.56E-04	2.01E-03	2.57E-03	1.33E-04	2.20E-04	3.19E-03	8.68E-03
5.34E-04	1.88E-03	2.49E-03	1.30E-04	3.04E-03	3.04E-03	1.11E-02	5.34E-04	1.88E-03	2.49E-03	1.30E-04	2.17E-04	3.04E-03	8.29E-03
5.12E-04	1.76E-03	2.41E-03	1.27E-04	2.89E-03	2.89E-03	1.06E-02	5.12E-04	1.76E-03	2.41E-03	1.27E-04	2.12E-04	2.89E-03	7.91E-03
4.87E-04	1.62E-03	2.28E-03	1.22E-04	2.70E-03	2.70E-03	9.91E-03	4.87E-04	1.62E-03	2.28E-03	1.22E-04	2.05E-04	2.70E-03	7.42E-03
3.45E-04	1.02E-03	2.13E-03	1.22E-04	2.19E-03	2.19E-03	7.99E-03	3.45E-04	1.02E-03	2.13E-03	1.22E-04	2.13E-04	2.19E-03	6.02E-03
3.42E-04	1.01E-03	2.09E-03	1.20E-04	2.15E-03	2.15E-03	7.87E-03	3.42E-04	1.01E-03	2.09E-03	1.20E-04	2.10E-04	2.15E-03	5.92E-03
3.38E-04	9.88E-04	2.06E-03	1.18E-04	2.12E-03	2.12E-03	7.75E-03	3.38E-04	9.88E-04	2.06E-03	1.18E-04	2.07E-04	2.12E-03	5.83E-03
3.35E-04	9.68E-04	2.03E-03	1.16E-04	2.08E-03	2.08E-03	7.60E-03	3.35E-04	9.68E-04	2.03E-03	1.16E-04	2.04E-04	2.08E-03	5.73E-03
3.34E-04	9.59E-04	2.01E-03	1.15E-04	2.06E-03	2.06E-03	7.54E-03	3.34E-04	9.59E-04	2.01E-03	1.15E-04	2.03E-04	2.06E-03	5.69E-03
3.55E-04	1.09E-03	2.18E-03	1.24E-04	2.26E-03	2.26E-03	8.27E-03	3.55E-04	1.09E-03	2.18E-03	1.24E-04	2.16E-04	2.26E-03	6.22E-03
3.51E-04	1.06E-03	2.13E-03	1.22E-04	2.21E-03	2.21E-03	8.09E-03	3.51E-04	1.06E-03	2.13E-03	1.22E-04	2.12E-04	2.21E-03	6.09E-03
3.47E-04	1.04E-03	2.10E-03	1.20E-04	2.17E-03	2.17E-03	7.95E-03	3.47E-04	1.04E-03	2.10E-03	1.20E-04	2.09E-04	2.17E-03	5.99E-03
3.44E-04	1.02E-03	2.06E-03	1.18E-04	2.13E-03	2.13E-03	7.81E-03	3.44E-04	1.02E-03	2.06E-03	1.18E-04	2.06E-04	2.13E-03	5.88E-03
3.45E-04	1.02E-03	2.08E-03	1.19E-04	2.14E-03	2.14E-03	7.85E-03	3.45E-04	1.02E-03	2.08E-03	1.19E-04	2.08E-04	2.14E-03	5.92E-03
3.64E-04	1.14E-03	2.20E-03	1.25E-04	2.31E-03	2.31E-03	8.44E-03	3.64E-04	1.14E-03	2.20E-03	1.25E-04	2.16E-04	2.31E-03	6.35E-03
3.60E-04	1.11E-03	2.16E-03	1.23E-04	2.26E-03	2.26E-03	8.28E-03	3.60E-04	1.11E-03	2.16E-03	1.23E-04	2.13E-04	2.26E-03	6.23E-03
3.57E-04	1.09E-03	2.13E-03	1.21E-04	2.23E-03	2.23E-03	8.16E-03	3.57E-04	1.09E-03	2.13E-03	1.21E-04	2.10E-04	2.23E-03	6.14E-03
3.54E-04	1.07E-03	2.10E-03	1.20E-04	2.20E-03	2.20E-03	8.04E-03	3.54E-04	1.07E-03	2.10E-03	1.20E-04	2.08E-04	2.20E-03	6.06E-03
3.56E-04	1.08E-03	2.14E-03	1.21E-04	2.22E-03	2.22E-03	8.15E-03	3.56E-04	1.08E-03	2.14E-03	1.21E-04	2.12E-04	2.22E-03	6.14E-03
3.71E-04	1.18E-03	2.19E-03	1.24E-04	2.33E-03	2.33E-03	8.52E-03	3.71E-04	1.18E-03	2.19E-03	1.24E-04	2.14E-04	2.33E-03	6.41E-03
3.67E-04	1.15E-03	2.15E-03	1.22E-04	2.28E-03	2.28E-03	8.35E-03	3.67E-04	1.15E-03	2.15E-03	1.22E-04	2.10E-04	2.28E-03	6.28E-03
3.64E-04	1.14E-03	2.14E-03	1.21E-04	2.26E-03	2.26E-03	8.27E-03	3.64E-04	1.14E-03	2.14E-03	1.21E-04	2.09E-04	2.26E-03	6.22E-03
3.65E-04	1.13E-03	2.15E-03	1.21E-04	2.26E-03	2.26E-03	8.29E-03	3.65E-04	1.13E-03	2.15E-03	1.21E-04	2.11E-04	2.26E-03	6.24E-03
3.68E-04	1.15E-03	2.20E-03	1.24E-04	2.30E-03	2.30E-03	8.44E-03	3.68E-04	1.15E-03	2.20E-03	1.24E-04	2.16E-04	2.30E-03	6.36E-03
3.78E-04	1.21E-03	2.17E-03	1.22E-04	2.32E-03	2.32E-03	8.53E-03	3.78E-04	1.21E-03	2.17E-03	1.22E-04	2.10E-04	2.32E-03	6.42E-03
3.76E-04	1.20E-03	2.17E-03	1.22E-04	2.31E-03	2.31E-03	8.49E-03	3.76E-04	1.20E-03	2.17E-03	1.22E-04	2.10E-04	2.31E-03	6.39E-03
3.77E-04	1.20E-03	2.18E-03	1.23E-04	2.32E-03	2.32E-03	8.52E-03	3.77E-04	1.20E-03	2.18E-03	1.23E-04	2.11E-04	2.32E-03	6.41E-03
3.77E-04	1.19E-03	2.20E-03	1.23E-04	2.32E-03	2.32E-03	8.54E-03	3.77E-04	1.19E-03	2.20E-03	1.23E-04	2.13E-04	2.32E-03	6.43E-03
3.79E-04	1.21E-03	2.23E-03	1.25E-04	2.36E-03	2.36E-03	8.66E-03	3.79E-04	1.21E-03	2.23E-03	1.25E-04	2.16E-04	2.36E-03	6.52E-03
3.14E-04	8.48E-04	1.93E-03	1.11E-04	1.95E-03	1.95E-03	7.10E-03	3.14E-04	8.48E-04	1.93E-03	1.11E-04	1.98E-04	1.95E-03	5.35E-03
3.14E-04	8.47E-04	1.93E-03	1.11E-04	1.94E-03	1.94E-03	7.09E-03	3.14E-04	8.47E-04	1.93E-03	1.11E-04	1.98E-04	1.94E-03	5.34E-03
3.13E-04	8.43E-04	1.92E-03	1.10E-04	1.92E-03	1.92E-03	7.03E-03	3.13E-04	8.43E-04	1.92E-03	1.10E-04	1.96E-04	1.92E-03	5.30E-03

3.12E-04	8.39E-04	1.91E-03	1.10E-04	1.91E-03	1.91E-03	6.99E-03	3.12E-04	8.39E-04	1.91E-03	1.10E-04	1.95E-04	1.91E-03	5.28E-03
3.17E-04	8.68E-04	1.94E-03	1.11E-04	1.96E-03	1.96E-03	7.15E-03	3.17E-04	8.68E-04	1.94E-03	1.11E-04	1.97E-04	1.96E-03	5.39E-03
3.17E-04	8.70E-04	1.95E-03	1.12E-04	1.96E-03	1.96E-03	7.16E-03	3.17E-04	8.70E-04	1.95E-03	1.12E-04	1.98E-04	1.96E-03	5.40E-03
3.16E-04	8.63E-04	1.93E-03	1.11E-04	1.94E-03	1.94E-03	7.10E-03	3.16E-04	8.63E-04	1.93E-03	1.11E-04	1.96E-04	1.94E-03	5.36E-03
3.16E-04	8.60E-04	1.92E-03	1.10E-04	1.94E-03	1.94E-03	7.08E-03	3.16E-04	8.60E-04	1.92E-03	1.10E-04	1.96E-04	1.94E-03	5.34E-03
3.23E-04	9.01E-04	1.98E-03	1.13E-04	2.00E-03	2.00E-03	7.33E-03	3.23E-04	9.01E-04	1.98E-03	1.13E-04	2.01E-04	2.00E-03	5.52E-03
3.19E-04	8.82E-04	1.93E-03	1.11E-04	1.96E-03	1.96E-03	7.17E-03	3.19E-04	8.82E-04	1.93E-03	1.11E-04	1.96E-04	1.96E-03	5.40E-03
3.18E-04	8.77E-04	1.92E-03	1.10E-04	1.95E-03	1.95E-03	7.13E-03	3.18E-04	8.77E-04	1.92E-03	1.10E-04	1.95E-04	1.95E-03	5.37E-03
3.20E-04	8.84E-04	1.95E-03	1.12E-04	1.97E-03	1.97E-03	7.19E-03	3.20E-04	8.84E-04	1.95E-03	1.12E-04	1.98E-04	1.97E-03	5.43E-03
3.27E-04	9.23E-04	1.99E-03	1.14E-04	2.03E-03	2.03E-03	7.41E-03	3.27E-04	9.23E-04	1.99E-03	1.14E-04	2.01E-04	2.03E-03	5.58E-03
3.25E-04	9.13E-04	1.97E-03	1.13E-04	2.01E-03	2.01E-03	7.33E-03	3.25E-04	9.13E-04	1.97E-03	1.13E-04	1.99E-04	2.01E-03	5.53E-03
3.23E-04	9.04E-04	1.95E-03	1.12E-04	1.99E-03	1.99E-03	7.28E-03	3.23E-04	9.04E-04	1.95E-03	1.12E-04	1.99E-04	1.99E-03	5.48E-03
3.24E-04	9.09E-04	1.97E-03	1.13E-04	2.00E-03	2.00E-03	7.31E-03	3.24E-04	9.09E-04	1.97E-03	1.13E-04	2.00E-04	2.00E-03	5.51E-03
3.17E-04	8.64E-04	1.98E-03	1.14E-04	1.96E-03	1.96E-03	7.20E-03	3.17E-04	8.64E-04	1.98E-03	1.14E-04	2.04E-04	1.96E-03	5.44E-03
3.20E-04	8.78E-04	2.02E-03	1.16E-04	1.99E-03	1.99E-03	7.31E-03	3.20E-04	8.78E-04	2.02E-03	1.16E-04	2.09E-04	1.99E-03	5.53E-03
3.26E-04	9.04E-04	2.09E-03	1.20E-04	2.05E-03	2.05E-03	7.55E-03	3.26E-04	9.04E-04	2.09E-03	1.20E-04	2.17E-04	2.05E-03	5.71E-03
3.28E-04	9.13E-04	2.11E-03	1.21E-04	2.06E-03	2.06E-03	7.61E-03	3.28E-04	9.13E-04	2.11E-03	1.21E-04	2.19E-04	2.06E-03	5.76E-03
3.32E-04	9.31E-04	2.16E-03	1.24E-04	2.10E-03	2.10E-03	7.75E-03	3.32E-04	9.31E-04	2.16E-03	1.24E-04	2.24E-04	2.10E-03	5.87E-03
3.36E-04	9.49E-04	2.21E-03	1.26E-04	2.14E-03	2.14E-03	7.89E-03	3.36E-04	9.49E-04	2.21E-03	1.26E-04	2.29E-04	2.14E-03	5.98E-03
3.27E-04	9.15E-04	2.03E-03	1.17E-04	2.03E-03	2.03E-03	7.45E-03	3.27E-04	9.15E-04	2.03E-03	1.17E-04	2.08E-04	2.03E-03	5.63E-03
3.30E-04	9.29E-04	2.07E-03	1.19E-04	2.06E-03	2.06E-03	7.57E-03	3.30E-04	9.29E-04	2.07E-03	1.19E-04	2.13E-04	2.06E-03	5.72E-03
3.35E-04	9.55E-04	2.14E-03	1.23E-04	2.12E-03	2.12E-03	7.79E-03	3.35E-04	9.55E-04	2.14E-03	1.23E-04	2.20E-04	2.12E-03	5.89E-03
3.38E-04	9.69E-04	2.18E-03	1.25E-04	2.15E-03	2.15E-03	7.91E-03	3.38E-04	9.69E-04	2.18E-03	1.25E-04	2.25E-04	2.15E-03	5.99E-03
3.39E-04	9.75E-04	2.20E-03	1.26E-04	2.16E-03	2.16E-03	7.96E-03	3.39E-04	9.75E-04	2.20E-03	1.26E-04	2.27E-04	2.16E-03	6.03E-03
3.42E-04	9.87E-04	2.23E-03	1.27E-04	2.19E-03	2.19E-03	8.06E-03	3.42E-04	9.87E-04	2.23E-03	1.27E-04	2.30E-04	2.19E-03	6.10E-03
3.34E-04	9.59E-04	2.06E-03	1.18E-04	2.08E-03	2.08E-03	7.64E-03	3.34E-04	9.59E-04	2.06E-03	1.18E-04	2.10E-04	2.08E-03	5.77E-03
3.36E-04	9.70E-04	2.10E-03	1.20E-04	2.11E-03	2.11E-03	7.74E-03	3.36E-04	9.70E-04	2.10E-03	1.20E-04	2.13E-04	2.11E-03	5.84E-03
3.42E-04	9.98E-04	2.18E-03	1.24E-04	2.18E-03	2.18E-03	8.01E-03	3.42E-04	9.98E-04	2.18E-03	1.24E-04	2.23E-04	2.18E-03	6.05E-03
3.45E-04	1.01E-03	2.21E-03	1.26E-04	2.20E-03	2.20E-03	8.09E-03	3.45E-04	1.01E-03	2.21E-03	1.26E-04	2.25E-04	2.20E-03	6.12E-03
3.47E-04	1.01E-03	2.23E-03	1.26E-04	2.22E-03	2.22E-03	8.14E-03	3.47E-04	1.01E-03	2.23E-03	1.26E-04	2.28E-04	2.22E-03	6.16E-03
3.52E-04	1.04E-03	2.28E-03	1.29E-04	2.26E-03	2.26E-03	8.33E-03	3.52E-04	1.04E-03	2.28E-03	1.29E-04	2.33E-04	2.26E-03	6.30E-03
3.43E-04	1.01E-03	2.10E-03	1.20E-04	2.14E-03	2.14E-03	7.85E-03	3.43E-04	1.01E-03	2.10E-03	1.20E-04	2.11E-04	2.14E-03	5.92E-03
3.48E-04	1.03E-03	2.17E-03	1.23E-04	2.20E-03	2.20E-03	8.08E-03	3.48E-04	1.03E-03	2.17E-03	1.23E-04	2.19E-04	2.20E-03	6.09E-03
3.48E-04	1.03E-03	2.16E-03	1.23E-04	2.19E-03	2.19E-03	8.05E-03	3.48E-04	1.03E-03	2.16E-03	1.23E-04	2.19E-04	2.19E-03	6.07E-03
3.53E-04	1.06E-03	2.25E-03	1.27E-04	2.27E-03	2.27E-03	8.32E-03	3.53E-04	1.06E-03	2.25E-03	1.27E-04	2.27E-04	2.27E-03	6.28E-03
3.58E-04	1.08E-03	2.29E-03	1.29E-04	2.30E-03	2.30E-03	8.46E-03	3.58E-04	1.08E-03	2.29E-03	1.29E-04	2.30E-04	2.30E-03	6.39E-03
3.64E-04	1.10E-03	2.36E-03	1.32E-04	2.38E-03	2.38E-03	8.71E-03	3.64E-04	1.10E-03	2.36E-03	1.32E-04	2.37E-04	2.38E-03	6.57E-03
2.92E-04	7.16E-04	1.89E-03	1.09E-04	1.80E-03	1.80E-03	6.60E-03	2.92E-04	7.16E-04	1.89E-03	1.09E-04	1.95E-04	1.80E-03	5.00E-03
2.93E-04	7.22E-04	1.90E-03	1.10E-04	1.81E-03	1.81E-03	6.66E-03	2.93E-04	7.22E-04	1.90E-03	1.10E-04	1.98E-04	1.81E-03	5.04E-03
2.95E-04	7.28E-04	1.92E-03	1.11E-04	1.82E-03	1.82E-03	6.70E-03	2.95E-04	7.28E-04	1.92E-03	1.11E-04	2.00E-04	1.82E-03	5.08E-03
2.96E-04	7.33E-04	1.93E-03	1.12E-04	1.82E-03	1.82E-03	6.71E-03	2.96E-04	7.33E-04	1.93E-03	1.12E-04	2.00E-04	1.82E-03	5.09E-03
2.95E-04	7.32E-04	1.92E-03	1.11E-04	1.81E-03	1.81E-03	6.68E-03	2.95E-04	7.32E-04	1.92E-03	1.11E-04	1.99E-04	1.81E-03	5.07E-03
2.95E-04	7.34E-04	1.92E-03	1.11E-04	1.81E-03	1.81E-03	6.69E-03	2.95E-04	7.34E-04	1.92E-03	1.11E-04	2.00E-04	1.81E-03	5.08E-03
2.96E-04	7.39E-04	1.92E-03	1.11E-04	1.83E-03	1.83E-03	6.73E-03	2.96E-04	7.39E-04	1.92E-03	1.11E-04	1.99E-04	1.83E-03	5.09E-03
2.98E-04	7.49E-04	1.94E-03	1.12E-04	1.85E-03	1.85E-03	6.80E-03	2.98E-04	7.49E-04	1.94E-03	1.12E-04	2.02E-04	1.85E-03	5.15E-03
2.97E-04	7.44E-04	1.93E-03	1.11E-04	1.83E-03	1.83E-03	6.75E-03	2.97E-04	7.44E-04	1.93E-03	1.11E-04	2.00E-04	1.83E-03	5.11E-03
2.96E-04	7.38E-04	1.91E-03	1.10E-04	1.82E-03	1.82E-03	6.68E-03	2.96E-04	7.38E-04	1.91E-03	1.10E-04	1.98E-04	1.82E-03	5.07E-03
2.96E-04	7.37E-04	1.90E-03	1.10E-04	1.81E-03	1.81E-03	6.66E-03	2.96E-04	7.37E-04	1.90E-03	1.10E-04	1.97E-04	1.81E-03	5.05E-03
2.95E-04	7.36E-04	1.89E-03	1.09E-04	1.80E-03	1.80E-03	6.64E-03	2.95E-04	7.36E-04	1.89E-03	1.09E-04	1.97E-04	1.80E-03	5.03E-03
2.99E-04	7.53E-04	1.92E-03	1.11E-04	1.85E-03	1.85E-03	6.78E-03	2.99E-04	7.53E-04	1.92E-03	1.11E-04	1.99E-04	1.85E-03	5.13E-03
3.00E-04	7.59E-04	1.94E-03	1.12E-04	1.86E-03	1.86E-03	6.82E-03	3.00E-04	7.59E-04	1.94E-03	1.12E-04	2.01E-04	1.86E-03	5.17E-03
2.98E-04	7.53E-04	1.92E-03	1.11E-04	1.84E-03	1.84E-03	6.75E-03	2.98E-04	7.53E-04	1.92E-03	1.11E-04	1.99E-04	1.84E-03	5.12E-03
2.98E-04	7.49E-04	1.90E-03	1.10E-04	1.82E-03	1.82E-03	6.71E-03	2.98E-04	7.49E-04	1.90E-03	1.10E-04	1.98E-04	1.82E-03	5.08E-03
2.96E-04	7.43E-04	1.88E-03	1.09E-04	1.81E-03	1.81E-03	6.64E-03	2.96E-04	7.43E-04	1.88E-03	1.09E-04	1.95E-04	1.81E-03	5.03E-03

2.96E-04	7.41E-04	1.87E-03	1.08E-04	1.80E-03	1.80E-03	6.61E-03	2.96E-04	7.41E-04	1.87E-03	1.08E-04	1.95E-04	1.80E-03	5.01E-03
3.02E-04	7.70E-04	1.93E-03	1.11E-04	1.87E-03	1.87E-03	6.85E-03	3.02E-04	7.70E-04	1.93E-03	1.11E-04	2.00E-04	1.87E-03	5.18E-03
3.01E-04	7.66E-04	1.92E-03	1.11E-04	1.85E-03	1.85E-03	6.80E-03	3.01E-04	7.66E-04	1.92E-03	1.11E-04	1.99E-04	1.85E-03	5.15E-03
3.00E-04	7.65E-04	1.91E-03	1.10E-04	1.85E-03	1.85E-03	6.78E-03	3.00E-04	7.65E-04	1.91E-03	1.10E-04	1.98E-04	1.85E-03	5.13E-03
3.00E-04	7.62E-04	1.90E-03	1.10E-04	1.84E-03	1.84E-03	6.74E-03	3.00E-04	7.62E-04	1.90E-03	1.10E-04	1.97E-04	1.84E-03	5.11E-03
2.98E-04	7.53E-04	1.88E-03	1.08E-04	1.81E-03	1.81E-03	6.66E-03	2.98E-04	7.53E-04	1.88E-03	1.08E-04	1.95E-04	1.81E-03	5.04E-03
2.97E-04	7.52E-04	1.87E-03	1.08E-04	1.80E-03	1.80E-03	6.64E-03	2.97E-04	7.52E-04	1.87E-03	1.08E-04	1.94E-04	1.80E-03	5.03E-03
3.02E-04	7.75E-04	1.91E-03	1.10E-04	1.87E-03	1.87E-03	6.83E-03	3.02E-04	7.75E-04	1.91E-03	1.10E-04	1.99E-04	1.87E-03	5.16E-03
3.02E-04	7.76E-04	1.91E-03	1.10E-04	1.86E-03	1.86E-03	6.81E-03	3.02E-04	7.76E-04	1.91E-03	1.10E-04	1.98E-04	1.86E-03	5.15E-03
3.01E-04	7.72E-04	1.90E-03	1.09E-04	1.84E-03	1.84E-03	6.77E-03	3.01E-04	7.72E-04	1.90E-03	1.09E-04	1.96E-04	1.84E-03	5.12E-03
3.00E-04	7.69E-04	1.89E-03	1.09E-04	1.83E-03	1.83E-03	6.74E-03	3.00E-04	7.69E-04	1.89E-03	1.09E-04	1.96E-04	1.83E-03	5.10E-03
3.02E-04	7.76E-04	1.91E-03	1.10E-04	1.85E-03	1.85E-03	6.79E-03	3.02E-04	7.76E-04	1.91E-03	1.10E-04	1.98E-04	1.85E-03	5.14E-03
3.03E-04	7.81E-04	1.92E-03	1.11E-04	1.86E-03	1.86E-03	6.84E-03	3.03E-04	7.81E-04	1.92E-03	1.11E-04	2.01E-04	1.86E-03	5.18E-03
1.47E-03	5.60E-03	2.68E-03	1.29E-04	5.01E-03	5.01E-03	1.99E-02	1.47E-03	5.60E-03	2.68E-03	1.29E-04	2.06E-04	5.01E-03	1.51E-02
1.45E-03	5.46E-03	2.68E-03	1.29E-04	4.96E-03	4.96E-03	1.96E-02	1.45E-03	5.46E-03	2.68E-03	1.29E-04	2.06E-04	4.96E-03	1.49E-02
1.53E-03	5.41E-03	2.63E-03	1.26E-04	4.92E-03	4.92E-03	1.95E-02	1.53E-03	5.41E-03	2.63E-03	1.26E-04	2.00E-04	4.92E-03	1.48E-02
1.51E-03	5.27E-03	2.62E-03	1.25E-04	4.88E-03	4.88E-03	1.93E-02	1.51E-03	5.27E-03	2.62E-03	1.25E-04	2.01E-04	4.88E-03	1.46E-02
1.60E-03	5.19E-03	2.57E-03	1.22E-04	4.83E-03	4.83E-03	1.91E-02	1.60E-03	5.19E-03	2.57E-03	1.22E-04	1.94E-04	4.83E-03	1.45E-02
1.57E-03	5.06E-03	2.56E-03	1.22E-04	4.79E-03	4.79E-03	1.89E-02	1.57E-03	5.06E-03	2.56E-03	1.22E-04	1.95E-04	4.79E-03	1.43E-02
1.46E-03	5.26E-03	2.64E-03	1.27E-04	4.89E-03	4.89E-03	1.93E-02	1.46E-03	5.26E-03	2.64E-03	1.27E-04	2.04E-04	4.89E-03	1.46E-02
1.44E-03	5.18E-03	2.64E-03	1.27E-04	4.86E-03	4.86E-03	1.91E-02	1.44E-03	5.18E-03	2.64E-03	1.27E-04	2.04E-04	4.86E-03	1.44E-02
1.49E-03	5.15E-03	2.61E-03	1.25E-04	4.84E-03	4.84E-03	1.90E-02	1.49E-03	5.15E-03	2.61E-03	1.25E-04	2.00E-04	4.84E-03	1.44E-02
1.47E-03	5.07E-03	2.61E-03	1.25E-04	4.81E-03	4.81E-03	1.89E-02	1.47E-03	5.07E-03	2.61E-03	1.25E-04	2.01E-04	4.81E-03	1.43E-02
1.73E-03	9.31E-03	3.00E-03	1.43E-04	6.11E-03	6.11E-03	2.64E-02	1.73E-03	9.31E-03	3.00E-03	1.43E-04	2.20E-04	6.11E-03	2.05E-02
1.67E-03	8.91E-03	3.00E-03	1.43E-04	6.03E-03	6.03E-03	2.58E-02	1.67E-03	8.91E-03	3.00E-03	1.43E-04	2.21E-04	6.03E-03	2.00E-02
1.62E-03	8.53E-03	3.00E-03	1.43E-04	5.96E-03	5.96E-03	2.52E-02	1.62E-03	8.53E-03	3.00E-03	1.43E-04	2.23E-04	5.96E-03	1.95E-02
1.52E-03	8.02E-03	3.00E-03	1.44E-04	5.85E-03	5.85E-03	2.44E-02	1.52E-03	8.02E-03	3.00E-03	1.44E-04	2.25E-04	5.85E-03	1.88E-02
1.43E-03	7.42E-03	3.00E-03	1.45E-04	5.70E-03	5.70E-03	2.34E-02	1.43E-03	7.42E-03	3.00E-03	1.45E-04	2.27E-04	5.70E-03	1.79E-02
1.43E-03	7.41E-03	2.99E-03	1.44E-04	5.70E-03	5.70E-03	2.34E-02	1.43E-03	7.41E-03	2.99E-03	1.44E-04	2.27E-04	5.70E-03	1.79E-02
1.43E-03	7.30E-03	2.98E-03	1.44E-04	5.67E-03	5.67E-03	2.32E-02	1.43E-03	7.30E-03	2.98E-03	1.44E-04	2.27E-04	5.67E-03	1.77E-02
1.40E-03	7.08E-03	2.97E-03	1.44E-04	5.62E-03	5.62E-03	2.28E-02	1.40E-03	7.08E-03	2.97E-03	1.44E-04	2.28E-04	5.62E-03	1.74E-02
1.35E-03	6.78E-03	2.96E-03	1.44E-04	5.54E-03	5.54E-03	2.23E-02	1.35E-03	6.78E-03	2.96E-03	1.44E-04	2.29E-04	5.54E-03	1.70E-02
1.31E-03	6.54E-03	2.95E-03	1.44E-04	5.47E-03	5.47E-03	2.19E-02	1.31E-03	6.54E-03	2.95E-03	1.44E-04	2.30E-04	5.47E-03	1.66E-02
1.28E-03	6.33E-03	2.95E-03	1.44E-04	5.40E-03	5.40E-03	2.15E-02	1.28E-03	6.33E-03	2.95E-03	1.44E-04	2.30E-04	5.40E-03	1.63E-02
1.82E-03	9.25E-03	2.93E-03	1.39E-04	6.00E-03	6.00E-03	2.61E-02	1.82E-03	9.25E-03	2.93E-03	1.39E-04	2.13E-04	6.00E-03	2.04E-02
1.76E-03	8.87E-03	2.93E-03	1.39E-04	5.93E-03	5.93E-03	2.56E-02	1.76E-03	8.87E-03	2.93E-03	1.39E-04	2.14E-04	5.93E-03	1.98E-02
1.65E-03	8.35E-03	2.94E-03	1.40E-04	5.84E-03	5.84E-03	2.48E-02	1.65E-03	8.35E-03	2.94E-03	1.40E-04	2.17E-04	5.84E-03	1.91E-02
1.60E-03	8.03E-03	2.93E-03	1.40E-04	5.77E-03	5.77E-03	2.42E-02	1.60E-03	8.03E-03	2.93E-03	1.40E-04	2.18E-04	5.77E-03	1.87E-02
1.51E-03	7.54E-03	2.94E-03	1.41E-04	5.66E-03	5.66E-03	2.34E-02	1.51E-03	7.54E-03	2.94E-03	1.41E-04	2.20E-04	5.66E-03	1.80E-02
1.49E-03	7.35E-03	2.93E-03	1.41E-04	5.62E-03	5.62E-03	2.31E-02	1.49E-03	7.35E-03	2.93E-03	1.41E-04	2.21E-04	5.62E-03	1.77E-02
1.48E-03	7.23E-03	2.91E-03	1.40E-04	5.59E-03	5.59E-03	2.30E-02	1.48E-03	7.23E-03	2.91E-03	1.40E-04	2.21E-04	5.59E-03	1.76E-02
1.46E-03	7.01E-03	2.90E-03	1.40E-04	5.54E-03	5.54E-03	2.26E-02	1.46E-03	7.01E-03	2.90E-03	1.40E-04	2.21E-04	5.54E-03	1.73E-02
1.40E-03	6.73E-03	2.90E-03	1.40E-04	5.46E-03	5.46E-03	2.21E-02	1.40E-03	6.73E-03	2.90E-03	1.40E-04	2.23E-04	5.46E-03	1.69E-02
1.36E-03	6.48E-03	2.89E-03	1.40E-04	5.39E-03	5.39E-03	2.16E-02	1.36E-03	6.48E-03	2.89E-03	1.40E-04	2.24E-04	5.39E-03	1.65E-02
1.33E-03	6.28E-03	2.89E-03	1.40E-04	5.33E-03	5.33E-03	2.13E-02	1.33E-03	6.28E-03	2.89E-03	1.40E-04	2.24E-04	5.33E-03	1.62E-02
1.90E-03	9.08E-03	2.86E-03	1.35E-04	5.89E-03	5.89E-03	2.58E-02	1.90E-03	9.08E-03	2.86E-03	1.35E-04	2.06E-04	5.89E-03	2.01E-02
1.83E-03	8.70E-03	2.86E-03	1.35E-04	5.82E-03	5.82E-03	2.52E-02	1.83E-03	8.70E-03	2.86E-03	1.35E-04	2.08E-04	5.82E-03	1.96E-02
1.75E-03	8.30E-03	2.87E-03	1.36E-04	5.75E-03	5.75E-03	2.45E-02	1.75E-03	8.30E-03	2.87E-03	1.36E-04	2.10E-04	5.75E-03	1.90E-02
1.68E-03	7.93E-03	2.87E-03	1.36E-04	5.68E-03	5.68E-03	2.40E-02	1.68E-03	7.93E-03	2.87E-03	1.36E-04	2.11E-04	5.68E-03	1.85E-02
1.58E-03	7.48E-03	2.87E-03	1.37E-04	5.58E-03	5.58E-03	2.32E-02	1.58E-03	7.48E-03	2.87E-03	1.37E-04	2.14E-04	5.58E-03	1.79E-02
1.56E-03	7.30E-03	2.86E-03	1.37E-04	5.54E-03	5.54E-03	2.29E-02	1.56E-03	7.30E-03	2.86E-03	1.37E-04	2.14E-04	5.54E-03	1.76E-02
1.56E-03	7.14E-03	2.85E-03	1.36E-04	5.51E-03	5.51E-03	2.27E-02	1.56E-03	7.14E-03	2.85E-03	1.36E-04	2.14E-04	5.51E-03	1.74E-02
1.52E-03	6.90E-03	2.84E-03	1.36E-04	5.45E-03	5.45E-03	2.23E-02	1.52E-03	6.90E-03	2.84E-03	1.36E-04	2.15E-04	5.45E-03	1.71E-02
1.46E-03	6.62E-03	2.84E-03	1.37E-04	5.38E-03	5.38E-03	2.18E-02	1.46E-03	6.62E-03	2.84E-03	1.37E-04	2.16E-04	5.38E-03	1.66E-02

1.41E-03	6.38E-03	2.84E-03	1.37E-04	5.31E-03	5.31E-03	2.14E-02	1.41E-03	6.38E-03	2.84E-03	1.37E-04	2.18E-04	5.31E-03	1.63E-02
1.38E-03	6.18E-03	2.83E-03	1.37E-04	5.25E-03	5.25E-03	2.10E-02	1.38E-03	6.18E-03	2.83E-03	1.37E-04	2.18E-04	5.25E-03	1.60E-02
1.99E-03	8.79E-03	2.79E-03	1.31E-04	5.78E-03	5.78E-03	2.53E-02	1.99E-03	8.79E-03	2.79E-03	1.31E-04	2.00E-04	5.78E-03	1.97E-02
1.93E-03	8.43E-03	2.79E-03	1.32E-04	5.71E-03	5.71E-03	2.47E-02	1.93E-03	8.43E-03	2.79E-03	1.32E-04	2.01E-04	5.71E-03	1.92E-02
1.85E-03	8.10E-03	2.79E-03	1.32E-04	5.65E-03	5.65E-03	2.42E-02	1.85E-03	8.10E-03	2.79E-03	1.32E-04	2.03E-04	5.65E-03	1.87E-02
1.77E-03	7.76E-03	2.80E-03	1.32E-04	5.58E-03	5.58E-03	2.36E-02	1.77E-03	7.76E-03	2.80E-03	1.32E-04	2.04E-04	5.58E-03	1.83E-02
1.71E-03	7.47E-03	2.79E-03	1.33E-04	5.52E-03	5.52E-03	2.32E-02	1.71E-03	7.47E-03	2.79E-03	1.33E-04	2.06E-04	5.52E-03	1.78E-02
1.66E-03	7.20E-03	2.79E-03	1.33E-04	5.46E-03	5.46E-03	2.27E-02	1.66E-03	7.20E-03	2.79E-03	1.33E-04	2.07E-04	5.46E-03	1.75E-02
1.64E-03	6.99E-03	2.78E-03	1.32E-04	5.42E-03	5.42E-03	2.24E-02	1.64E-03	6.99E-03	2.78E-03	1.32E-04	2.07E-04	5.42E-03	1.72E-02
1.58E-03	6.72E-03	2.78E-03	1.33E-04	5.35E-03	5.35E-03	2.19E-02	1.58E-03	6.72E-03	2.78E-03	1.33E-04	2.09E-04	5.35E-03	1.68E-02
1.52E-03	6.48E-03	2.78E-03	1.33E-04	5.29E-03	5.29E-03	2.15E-02	1.52E-03	6.48E-03	2.78E-03	1.33E-04	2.10E-04	5.29E-03	1.64E-02
1.46E-03	6.23E-03	2.78E-03	1.33E-04	5.23E-03	5.23E-03	2.11E-02	1.46E-03	6.23E-03	2.78E-03	1.33E-04	2.12E-04	5.23E-03	1.60E-02
1.44E-03	6.06E-03	2.77E-03	1.33E-04	5.18E-03	5.18E-03	2.08E-02	1.44E-03	6.06E-03	2.77E-03	1.33E-04	2.12E-04	5.18E-03	1.58E-02
1.71E-03	6.74E-03	2.72E-03	1.29E-04	5.32E-03	5.32E-03	2.19E-02	1.71E-03	6.74E-03	2.72E-03	1.29E-04	2.01E-04	5.32E-03	1.68E-02
1.65E-03	6.51E-03	2.72E-03	1.29E-04	5.26E-03	5.26E-03	2.15E-02	1.65E-03	6.51E-03	2.72E-03	1.29E-04	2.02E-04	5.26E-03	1.65E-02
1.59E-03	6.29E-03	2.72E-03	1.30E-04	5.20E-03	5.20E-03	2.11E-02	1.59E-03	6.29E-03	2.72E-03	1.30E-04	2.04E-04	5.20E-03	1.61E-02
1.54E-03	6.08E-03	2.71E-03	1.30E-04	5.15E-03	5.15E-03	2.08E-02	1.54E-03	6.08E-03	2.71E-03	1.30E-04	2.05E-04	5.15E-03	1.58E-02
1.51E-03	5.92E-03	2.71E-03	1.30E-04	5.10E-03	5.10E-03	2.05E-02	1.51E-03	5.92E-03	2.71E-03	1.30E-04	2.06E-04	5.10E-03	1.56E-02
1.61E-03	5.87E-03	2.65E-03	1.26E-04	5.06E-03	5.06E-03	2.04E-02	1.61E-03	5.87E-03	2.65E-03	1.26E-04	1.99E-04	5.06E-03	1.55E-02
1.58E-03	5.71E-03	2.65E-03	1.26E-04	5.01E-03	5.01E-03	2.01E-02	1.58E-03	5.71E-03	2.65E-03	1.26E-04	2.00E-04	5.01E-03	1.53E-02
1.63E-03	3.14E-03	2.23E-03	1.07E-04	3.89E-03	3.89E-03	1.49E-02	1.63E-03	3.14E-03	2.23E-03	1.07E-04	1.75E-04	3.89E-03	1.12E-02
1.60E-03	3.09E-03	2.23E-03	1.07E-04	3.87E-03	3.87E-03	1.48E-02	1.60E-03	3.09E-03	2.23E-03	1.07E-04	1.75E-04	3.87E-03	1.11E-02
1.74E-03	3.00E-03	2.19E-03	1.04E-04	3.81E-03	3.81E-03	1.47E-02	1.74E-03	3.00E-03	2.19E-03	1.04E-04	1.70E-04	3.81E-03	1.10E-02
1.71E-03	2.96E-03	2.19E-03	1.04E-04	3.79E-03	3.79E-03	1.45E-02	1.71E-03	2.96E-03	2.19E-03	1.04E-04	1.70E-04	3.79E-03	1.09E-02
1.86E-03	2.87E-03	2.14E-03	1.02E-04	3.74E-03	3.74E-03	1.45E-02	1.86E-03	2.87E-03	2.14E-03	1.02E-04	1.65E-04	3.74E-03	1.09E-02
1.83E-03	2.83E-03	2.14E-03	1.02E-04	3.71E-03	3.71E-03	1.43E-02	1.83E-03	2.83E-03	2.14E-03	1.02E-04	1.66E-04	3.71E-03	1.08E-02
2.02E-03	2.73E-03	2.10E-03	9.93E-05	3.66E-03	3.66E-03	1.43E-02	2.02E-03	2.73E-03	2.10E-03	9.93E-05	1.61E-04	3.66E-03	1.08E-02
1.97E-03	2.70E-03	2.10E-03	9.94E-05	3.64E-03	3.64E-03	1.41E-02	1.97E-03	2.70E-03	2.10E-03	9.94E-05	1.61E-04	3.64E-03	1.07E-02
2.20E-03	2.61E-03	2.06E-03	9.69E-05	3.58E-03	3.58E-03	1.41E-02	2.20E-03	2.61E-03	2.06E-03	9.69E-05	1.56E-04	3.58E-03	1.07E-02
2.15E-03	2.58E-03	2.05E-03	9.70E-05	3.56E-03	3.56E-03	1.40E-02	2.15E-03	2.58E-03	2.05E-03	9.70E-05	1.57E-04	3.56E-03	1.06E-02
1.51E-03	4.89E-03	1.01E-02	5.25E-04	1.28E-02	1.28E-02	4.26E-02	1.51E-03	4.89E-03	1.01E-02	5.25E-04	5.43E-04	1.28E-02	3.04E-02
1.47E-03	4.77E-03	1.00E-02	5.16E-04	1.25E-02	1.25E-02	4.17E-02	1.47E-03	4.77E-03	1.00E-02	5.16E-04	5.45E-04	1.25E-02	2.98E-02
1.42E-03	4.61E-03	9.85E-03	5.06E-04	1.21E-02	1.21E-02	4.06E-02	1.42E-03	4.61E-03	9.85E-03	5.06E-04	5.46E-04	1.21E-02	2.91E-02
1.38E-03	4.49E-03	9.71E-03	4.98E-04	1.19E-02	1.19E-02	3.98E-02	1.38E-03	4.49E-03	9.71E-03	4.98E-04	5.47E-04	1.19E-02	2.85E-02
1.35E-03	4.40E-03	9.58E-03	4.90E-04	1.16E-02	1.16E-02	3.91E-02	1.35E-03	4.40E-03	9.58E-03	4.90E-04	5.47E-04	1.16E-02	2.80E-02
1.31E-03	4.30E-03	9.45E-03	4.82E-04	1.14E-02	1.14E-02	3.83E-02	1.31E-03	4.30E-03	9.45E-03	4.82E-04	5.47E-04	1.14E-02	2.75E-02
1.29E-03	4.26E-03	9.33E-03	4.75E-04	1.12E-02	1.12E-02	3.78E-02	1.29E-03	4.26E-03	9.33E-03	4.75E-04	5.46E-04	1.12E-02	2.71E-02
1.25E-03	4.13E-03	9.16E-03	4.67E-04	1.10E-02	1.10E-02	3.69E-02	1.25E-03	4.13E-03	9.16E-03	4.67E-04	5.46E-04	1.10E-02	2.65E-02
1.22E-03	4.03E-03	9.03E-03	4.60E-04	1.07E-02	1.07E-02	3.62E-02	1.22E-03	4.03E-03	9.03E-03	4.60E-04	5.45E-04	1.07E-02	2.60E-02
1.19E-03	3.93E-03	8.90E-03	4.53E-04	1.05E-02	1.05E-02	3.55E-02	1.19E-03	3.93E-03	8.90E-03	4.53E-04	5.44E-04	1.05E-02	2.55E-02
1.16E-03	3.80E-03	8.76E-03	4.45E-04	1.02E-02	1.02E-02	3.46E-02	1.16E-03	3.80E-03	8.76E-03	4.45E-04	5.43E-04	1.02E-02	2.49E-02
1.57E-03	5.51E-03	9.77E-03	5.07E-04	1.30E-02	1.30E-02	4.35E-02	1.57E-03	5.51E-03	9.77E-03	5.07E-04	5.22E-04	1.30E-02	3.09E-02
1.53E-03	5.34E-03	9.65E-03	4.98E-04	1.27E-02	1.27E-02	4.25E-02	1.53E-03	5.34E-03	9.65E-03	4.98E-04	5.25E-04	1.27E-02	3.03E-02
1.48E-03	5.16E-03	9.51E-03	4.90E-04	1.24E-02	1.24E-02	4.14E-02	1.48E-03	5.16E-03	9.51E-03	4.90E-04	5.27E-04	1.24E-02	2.96E-02
1.43E-03	4.98E-03	9.38E-03	4.81E-04	1.20E-02	1.20E-02	4.04E-02	1.43E-03	4.98E-03	9.38E-03	4.81E-04	5.28E-04	1.20E-02	2.88E-02
1.39E-03	4.84E-03	9.25E-03	4.73E-04	1.18E-02	1.18E-02	3.95E-02	1.39E-03	4.84E-03	9.25E-03	4.73E-04	5.29E-04	1.18E-02	2.83E-02
1.35E-03	4.69E-03	9.12E-03	4.65E-04	1.15E-02	1.15E-02	3.86E-02	1.35E-03	4.69E-03	9.12E-03	4.65E-04	5.29E-04	1.15E-02	2.77E-02
1.31E-03	4.57E-03	8.97E-03	4.58E-04	1.12E-02	1.12E-02	3.78E-02	1.31E-03	4.57E-03	8.97E-03	4.58E-04	5.30E-04	1.12E-02	2.71E-02
1.28E-03	4.44E-03	8.84E-03	4.51E-04	1.10E-02	1.10E-02	3.70E-02	1.28E-03	4.44E-03	8.84E-03	4.51E-04	5.29E-04	1.10E-02	2.65E-02
1.24E-03	4.30E-03	8.71E-03	4.44E-04	1.07E-02	1.07E-02	3.61E-02	1.24E-03	4.30E-03	8.71E-03	4.44E-04	5.29E-04	1.07E-02	2.59E-02
1.21E-03	4.17E-03	8.58E-03	4.37E-04	1.05E-02	1.05E-02	3.53E-02	1.21E-03	4.17E-03	8.58E-03	4.37E-04	5.28E-04	1.05E-02	2.54E-02
1.18E-03	4.06E-03	8.46E-03	4.30E-04	1.02E-02	1.02E-02	3.46E-02	1.18E-03	4.06E-03	8.46E-03	4.30E-04	5.27E-04	1.02E-02	2.49E-02
1.64E-03	6.15E-03	9.41E-03	4.88E-04	1.33E-02	1.33E-02	4.42E-02	1.64E-03	6.15E-03	9.41E-03	4.88E-04	5.03E-04	1.33E-02	3.14E-02
1.58E-03	5.93E-03	9.29E-03	4.80E-04	1.29E-02	1.29E-02	4.31E-02	1.58E-03	5.93E-03	9.29E-03	4.80E-04	5.05E-04	1.29E-02	3.07E-02

1.53E-03	5.71E-03	9.17E-03	4.71E-04	1.25E-02	1.25E-02	4.20E-02	1.53E-03	5.71E-03	9.17E-03	4.71E-04	5.08E-04	1.25E-02	2.99E-02
1.49E-03	5.54E-03	9.05E-03	4.64E-04	1.23E-02	1.23E-02	4.11E-02	1.49E-03	5.54E-03	9.05E-03	4.64E-04	5.09E-04	1.23E-02	2.93E-02
1.44E-03	5.36E-03	8.93E-03	4.56E-04	1.20E-02	1.20E-02	4.01E-02	1.44E-03	5.36E-03	8.93E-03	4.56E-04	5.10E-04	1.20E-02	2.87E-02
1.39E-03	5.15E-03	8.81E-03	4.49E-04	1.16E-02	1.16E-02	3.90E-02	1.39E-03	5.15E-03	8.81E-03	4.49E-04	5.12E-04	1.16E-02	2.79E-02
1.35E-03	4.98E-03	8.65E-03	4.42E-04	1.13E-02	1.13E-02	3.81E-02	1.35E-03	4.98E-03	8.65E-03	4.42E-04	5.12E-04	1.13E-02	2.73E-02
1.31E-03	4.80E-03	8.52E-03	4.34E-04	1.10E-02	1.10E-02	3.71E-02	1.31E-03	4.80E-03	8.52E-03	4.34E-04	5.13E-04	1.10E-02	2.66E-02
1.27E-03	4.58E-03	8.38E-03	4.27E-04	1.07E-02	1.07E-02	3.60E-02	1.27E-03	4.58E-03	8.38E-03	4.27E-04	5.13E-04	1.07E-02	2.58E-02
1.24E-03	4.49E-03	8.28E-03	4.21E-04	1.05E-02	1.05E-02	3.54E-02	1.24E-03	4.49E-03	8.28E-03	4.21E-04	5.12E-04	1.05E-02	2.54E-02
1.20E-03	4.33E-03	8.16E-03	4.15E-04	1.02E-02	1.02E-02	3.45E-02	1.20E-03	4.33E-03	8.16E-03	4.15E-04	5.11E-04	1.02E-02	2.48E-02
1.70E-03	6.79E-03	9.04E-03	4.68E-04	1.34E-02	1.34E-02	4.48E-02	1.70E-03	6.79E-03	9.04E-03	4.68E-04	4.84E-04	1.34E-02	3.19E-02
1.65E-03	6.60E-03	8.94E-03	4.61E-04	1.31E-02	1.31E-02	4.39E-02	1.65E-03	6.60E-03	8.94E-03	4.61E-04	4.86E-04	1.31E-02	3.13E-02
1.59E-03	6.31E-03	8.82E-03	4.53E-04	1.27E-02	1.27E-02	4.26E-02	1.59E-03	6.31E-03	8.82E-03	4.53E-04	4.89E-04	1.27E-02	3.04E-02
1.55E-03	6.15E-03	8.72E-03	4.46E-04	1.25E-02	1.25E-02	4.18E-02	1.55E-03	6.15E-03	8.72E-03	4.46E-04	4.90E-04	1.25E-02	2.98E-02
1.50E-03	5.90E-03	8.61E-03	4.39E-04	1.21E-02	1.21E-02	4.07E-02	1.50E-03	5.90E-03	8.61E-03	4.39E-04	4.92E-04	1.21E-02	2.90E-02
1.44E-03	5.59E-03	8.45E-03	4.31E-04	1.17E-02	1.17E-02	3.93E-02	1.44E-03	5.59E-03	8.45E-03	4.31E-04	4.94E-04	1.17E-02	2.81E-02
1.39E-03	5.39E-03	8.33E-03	4.25E-04	1.14E-02	1.14E-02	3.83E-02	1.39E-03	5.39E-03	8.33E-03	4.25E-04	4.95E-04	1.14E-02	2.74E-02
1.36E-03	5.24E-03	8.23E-03	4.19E-04	1.12E-02	1.12E-02	3.75E-02	1.36E-03	5.24E-03	8.23E-03	4.19E-04	4.96E-04	1.12E-02	2.69E-02
1.31E-03	5.00E-03	8.10E-03	4.12E-04	1.08E-02	1.08E-02	3.64E-02	1.31E-03	5.00E-03	8.10E-03	4.12E-04	4.96E-04	1.08E-02	2.61E-02
1.26E-03	4.78E-03	7.97E-03	4.05E-04	1.05E-02	1.05E-02	3.54E-02	1.26E-03	4.78E-03	7.97E-03	4.05E-04	4.96E-04	1.05E-02	2.54E-02
1.22E-03	4.57E-03	7.84E-03	3.99E-04	1.02E-02	1.02E-02	3.43E-02	1.22E-03	4.57E-03	7.84E-03	3.99E-04	4.96E-04	1.02E-02	2.47E-02
1.80E-03	7.67E-03	8.69E-03	4.49E-04	1.37E-02	1.37E-02	4.60E-02	1.80E-03	7.67E-03	8.69E-03	4.49E-04	4.64E-04	1.37E-02	3.28E-02
1.73E-03	7.36E-03	8.59E-03	4.42E-04	1.33E-02	1.33E-02	4.48E-02	1.73E-03	7.36E-03	8.59E-03	4.42E-04	4.67E-04	1.33E-02	3.19E-02
1.67E-03	7.05E-03	8.49E-03	4.35E-04	1.30E-02	1.30E-02	4.36E-02	1.67E-03	7.05E-03	8.49E-03	4.35E-04	4.69E-04	1.30E-02	3.11E-02
1.61E-03	6.73E-03	8.39E-03	4.28E-04	1.26E-02	1.26E-02	4.23E-02	1.61E-03	6.73E-03	8.39E-03	4.28E-04	4.72E-04	1.26E-02	3.02E-02
1.55E-03	6.40E-03	8.28E-03	4.21E-04	1.22E-02	1.22E-02	4.10E-02	1.55E-03	6.40E-03	8.28E-03	4.21E-04	4.74E-04	1.22E-02	2.93E-02
1.49E-03	6.09E-03	8.13E-03	4.14E-04	1.18E-02	1.18E-02	3.97E-02	1.49E-03	6.09E-03	8.13E-03	4.14E-04	4.76E-04	1.18E-02	2.84E-02
1.44E-03	5.85E-03	8.02E-03	4.08E-04	1.15E-02	1.15E-02	3.86E-02	1.44E-03	5.85E-03	8.02E-03	4.08E-04	4.78E-04	1.15E-02	2.77E-02
1.39E-03	5.58E-03	7.91E-03	4.02E-04	1.11E-02	1.11E-02	3.75E-02	1.39E-03	5.58E-03	7.91E-03	4.02E-04	4.79E-04	1.11E-02	2.69E-02
1.33E-03	5.29E-03	7.78E-03	3.95E-04	1.07E-02	1.07E-02	3.62E-02	1.33E-03	5.29E-03	7.78E-03	3.95E-04	4.80E-04	1.07E-02	2.60E-02
1.29E-03	5.09E-03	7.67E-03	3.89E-04	1.04E-02	1.04E-02	3.53E-02	1.29E-03	5.09E-03	7.67E-03	3.89E-04	4.80E-04	1.04E-02	2.54E-02
1.24E-03	4.83E-03	7.54E-03	3.83E-04	1.01E-02	1.01E-02	3.42E-02	1.24E-03	4.83E-03	7.54E-03	3.83E-04	4.80E-04	1.01E-02	2.46E-02
1.88E-03	8.51E-03	8.34E-03	4.29E-04	1.39E-02	1.39E-02	4.69E-02	1.88E-03	8.51E-03	8.34E-03	4.29E-04	4.45E-04	1.39E-02	3.35E-02
1.81E-03	8.09E-03	8.25E-03	4.22E-04	1.34E-02	1.34E-02	4.54E-02	1.81E-03	8.09E-03	8.25E-03	4.22E-04	4.48E-04	1.34E-02	3.25E-02
1.73E-03	7.66E-03	8.15E-03	4.16E-04	1.30E-02	1.30E-02	4.39E-02	1.73E-03	7.66E-03	8.15E-03	4.16E-04	4.51E-04	1.30E-02	3.14E-02
1.67E-03	7.29E-03	8.06E-03	4.10E-04	1.26E-02	1.26E-02	4.26E-02	1.67E-03	7.29E-03	8.06E-03	4.10E-04	4.54E-04	1.26E-02	3.05E-02
1.61E-03	6.95E-03	7.92E-03	4.03E-04	1.22E-02	1.22E-02	4.13E-02	1.61E-03	6.95E-03	7.92E-03	4.03E-04	4.57E-04	1.22E-02	2.96E-02
1.54E-03	6.54E-03	7.80E-03	3.97E-04	1.18E-02	1.18E-02	3.98E-02	1.54E-03	6.54E-03	7.80E-03	3.97E-04	4.59E-04	1.18E-02	2.85E-02
1.49E-03	6.33E-03	7.72E-03	3.92E-04	1.15E-02	1.15E-02	3.90E-02	1.49E-03	6.33E-03	7.72E-03	3.92E-04	4.60E-04	1.15E-02	2.79E-02
1.43E-03	5.97E-03	7.60E-03	3.85E-04	1.11E-02	1.11E-02	3.76E-02	1.43E-03	5.97E-03	7.60E-03	3.85E-04	4.62E-04	1.11E-02	2.69E-02
1.37E-03	5.67E-03	7.48E-03	3.79E-04	1.07E-02	1.07E-02	3.64E-02	1.37E-03	5.67E-03	7.48E-03	3.79E-04	4.63E-04	1.07E-02	2.61E-02
1.32E-03	5.39E-03	7.37E-03	3.73E-04	1.04E-02	1.04E-02	3.52E-02	1.32E-03	5.39E-03	7.37E-03	3.73E-04	4.64E-04	1.04E-02	2.53E-02
1.27E-03	5.09E-03	7.23E-03	3.67E-04	1.00E-02	1.00E-02	3.40E-02	1.27E-03	5.09E-03	7.23E-03	3.67E-04	4.64E-04	1.00E-02	2.44E-02
1.99E-03	9.41E-03	8.00E-03	4.09E-04	1.40E-02	1.40E-02	4.78E-02	1.99E-03	9.41E-03	8.00E-03	4.09E-04	4.27E-04	1.40E-02	3.42E-02
1.90E-03	8.87E-03	7.91E-03	4.03E-04	1.35E-02	1.35E-02	4.61E-02	1.90E-03	8.87E-03	7.91E-03	4.03E-04	4.31E-04	1.35E-02	3.30E-02
1.80E-03	8.28E-03	7.82E-03	3.96E-04	1.30E-02	1.30E-02	4.43E-02	1.80E-03	8.28E-03	7.82E-03	3.96E-04	4.34E-04	1.30E-02	3.17E-02
1.72E-03	7.75E-03	7.68E-03	3.90E-04	1.25E-02	1.25E-02	4.25E-02	1.72E-03	7.75E-03	7.68E-03	3.90E-04	4.37E-04	1.25E-02	3.05E-02
1.66E-03	7.44E-03	7.60E-03	3.85E-04	1.22E-02	1.22E-02	4.14E-02	1.66E-03	7.44E-03	7.60E-03	3.85E-04	4.39E-04	1.22E-02	2.97E-02
1.58E-03	6.99E-03	7.48E-03	3.79E-04	1.17E-02	1.17E-02	3.99E-02	1.58E-03	6.99E-03	7.48E-03	3.79E-04	4.42E-04	1.17E-02	2.86E-02
1.54E-03	6.77E-03	7.41E-03	3.75E-04	1.15E-02	1.15E-02	3.91E-02	1.54E-03	6.77E-03	7.41E-03	3.75E-04	4.43E-04	1.15E-02	2.80E-02
1.47E-03	6.35E-03	7.29E-03	3.69E-04	1.10E-02	1.10E-02	3.76E-02	1.47E-03	6.35E-03	7.29E-03	3.69E-04	4.45E-04	1.10E-02	2.70E-02
1.41E-03	6.00E-03	7.18E-03	3.63E-04	1.07E-02	1.07E-02	3.63E-02	1.41E-03	6.00E-03	7.18E-03	3.63E-04	4.46E-04	1.07E-02	2.60E-02
1.35E-03	5.67E-03	7.06E-03	3.57E-04	1.03E-02	1.03E-02	3.50E-02	1.35E-03	5.67E-03	7.06E-03	3.57E-04	4.47E-04	1.03E-02	2.52E-02
1.30E-03	5.39E-03	6.94E-03	3.52E-04	9.94E-03	9.94E-03	3.39E-02	1.30E-03	5.39E-03	6.94E-03	3.52E-04	4.48E-04	9.94E-03	2.44E-02
2.10E-03	1.03E-02	7.67E-03	3.89E-04	1.41E-02	1.41E-02	4.86E-02	2.10E-03	1.03E-02	7.67E-03	3.89E-04	4.10E-04	1.41E-02	3.50E-02

1.98E-03	9.54E-03	7.58E-03	3.83E-04	1.34E-02	1.34E-02	4.64E-02	1.98E-03	9.54E-03	7.58E-03	3.83E-04	4.14E-04	1.34E-02	3.33E-02
1.88E-03	8.92E-03	7.49E-03	3.77E-04	1.29E-02	1.29E-02	4.46E-02	1.88E-03	8.92E-03	7.49E-03	3.77E-04	4.17E-04	1.29E-02	3.20E-02
1.79E-03	8.40E-03	7.36E-03	3.72E-04	1.25E-02	1.25E-02	4.29E-02	1.79E-03	8.40E-03	7.36E-03	3.72E-04	4.20E-04	1.25E-02	3.09E-02
1.71E-03	7.84E-03	7.26E-03	3.66E-04	1.20E-02	1.20E-02	4.12E-02	1.71E-03	7.84E-03	7.26E-03	3.66E-04	4.22E-04	1.20E-02	2.96E-02
1.64E-03	7.47E-03	7.18E-03	3.62E-04	1.17E-02	1.17E-02	4.00E-02	1.64E-03	7.47E-03	7.18E-03	3.62E-04	4.25E-04	1.17E-02	2.88E-02
1.58E-03	7.14E-03	7.10E-03	3.58E-04	1.14E-02	1.14E-02	3.89E-02	1.58E-03	7.14E-03	7.10E-03	3.58E-04	4.27E-04	1.14E-02	2.80E-02
1.51E-03	6.68E-03	6.98E-03	3.52E-04	1.09E-02	1.09E-02	3.74E-02	1.51E-03	6.68E-03	6.98E-03	3.52E-04	4.28E-04	1.09E-02	2.69E-02
1.45E-03	6.30E-03	6.87E-03	3.46E-04	1.05E-02	1.05E-02	3.60E-02	1.45E-03	6.30E-03	6.87E-03	3.46E-04	4.30E-04	1.05E-02	2.59E-02
1.38E-03	5.94E-03	6.75E-03	3.41E-04	1.01E-02	1.01E-02	3.47E-02	1.38E-03	5.94E-03	6.75E-03	3.41E-04	4.31E-04	1.01E-02	2.50E-02
1.33E-03	5.63E-03	6.63E-03	3.36E-04	9.79E-03	9.79E-03	3.35E-02	1.33E-03	5.63E-03	6.63E-03	3.36E-04	4.31E-04	9.79E-03	2.42E-02
2.24E-03	1.15E-02	7.35E-03	3.70E-04	1.42E-02	1.42E-02	4.98E-02	2.24E-03	1.15E-02	7.35E-03	3.70E-04	3.94E-04	1.42E-02	3.60E-02
2.10E-03	1.05E-02	7.27E-03	3.65E-04	1.36E-02	1.36E-02	4.74E-02	2.10E-03	1.05E-02	7.27E-03	3.65E-04	3.98E-04	1.36E-02	3.42E-02
2.00E-03	9.87E-03	7.20E-03	3.60E-04	1.31E-02	1.31E-02	4.56E-02	2.00E-03	9.87E-03	7.20E-03	3.60E-04	4.00E-04	1.31E-02	3.29E-02
1.87E-03	8.96E-03	7.05E-03	3.54E-04	1.24E-02	1.24E-02	4.30E-02	1.87E-03	8.96E-03	7.05E-03	3.54E-04	4.03E-04	1.24E-02	3.10E-02
1.78E-03	8.39E-03	6.96E-03	3.49E-04	1.20E-02	1.20E-02	4.14E-02	1.78E-03	8.39E-03	6.96E-03	3.49E-04	4.06E-04	1.20E-02	2.99E-02
1.69E-03	7.84E-03	6.86E-03	3.44E-04	1.15E-02	1.15E-02	3.97E-02	1.69E-03	7.84E-03	6.86E-03	3.44E-04	4.08E-04	1.15E-02	2.86E-02
1.61E-03	7.29E-03	6.74E-03	3.38E-04	1.10E-02	1.10E-02	3.80E-02	1.61E-03	7.29E-03	6.74E-03	3.38E-04	4.10E-04	1.10E-02	2.74E-02
1.55E-03	6.96E-03	6.66E-03	3.34E-04	1.07E-02	1.07E-02	3.69E-02	1.55E-03	6.96E-03	6.66E-03	3.34E-04	4.12E-04	1.07E-02	2.66E-02
1.48E-03	6.57E-03	6.56E-03	3.30E-04	1.03E-02	1.03E-02	3.56E-02	1.48E-03	6.57E-03	6.56E-03	3.30E-04	4.13E-04	1.03E-02	2.57E-02
1.42E-03	6.17E-03	6.43E-03	3.24E-04	9.93E-03	9.93E-03	3.42E-02	1.42E-03	6.17E-03	6.43E-03	3.24E-04	4.14E-04	9.93E-03	2.47E-02
1.36E-03	5.81E-03	6.31E-03	3.19E-04	9.55E-03	9.55E-03	3.29E-02	1.36E-03	5.81E-03	6.31E-03	3.19E-04	4.14E-04	9.55E-03	2.38E-02
2.41E-03	1.28E-02	7.05E-03	3.52E-04	1.44E-02	1.44E-02	5.14E-02	2.41E-03	1.28E-02	7.05E-03	3.52E-04	3.79E-04	1.44E-02	3.74E-02
2.26E-03	1.17E-02	6.98E-03	3.47E-04	1.37E-02	1.37E-02	4.88E-02	2.26E-03	1.17E-02	6.98E-03	3.47E-04	3.82E-04	1.37E-02	3.54E-02
2.13E-03	1.08E-02	6.92E-03	3.43E-04	1.32E-02	1.32E-02	4.65E-02	2.13E-03	1.08E-02	6.92E-03	3.43E-04	3.85E-04	1.32E-02	3.38E-02
2.00E-03	9.99E-03	6.79E-03	3.38E-04	1.26E-02	1.26E-02	4.43E-02	2.00E-03	9.99E-03	6.79E-03	3.38E-04	3.87E-04	1.26E-02	3.21E-02
1.88E-03	9.12E-03	6.68E-03	3.33E-04	1.20E-02	1.20E-02	4.20E-02	1.88E-03	9.12E-03	6.68E-03	3.33E-04	3.90E-04	1.20E-02	3.04E-02
1.79E-03	8.55E-03	6.60E-03	3.29E-04	1.16E-02	1.16E-02	4.04E-02	1.79E-03	8.55E-03	6.60E-03	3.29E-04	3.92E-04	1.16E-02	2.92E-02
1.66E-03	7.66E-03	6.44E-03	3.21E-04	1.09E-02	1.09E-02	3.78E-02	1.66E-03	7.66E-03	6.44E-03	3.21E-04	3.94E-04	1.09E-02	2.73E-02
1.60E-03	7.27E-03	6.36E-03	3.18E-04	1.05E-02	1.05E-02	3.66E-02	1.60E-03	7.27E-03	6.36E-03	3.18E-04	3.96E-04	1.05E-02	2.65E-02
1.51E-03	6.72E-03	6.21E-03	3.11E-04	1.00E-02	1.00E-02	3.48E-02	1.51E-03	6.72E-03	6.21E-03	3.11E-04	3.96E-04	1.00E-02	2.52E-02
1.45E-03	6.40E-03	6.12E-03	3.08E-04	9.71E-03	9.71E-03	3.37E-02	1.45E-03	6.40E-03	6.12E-03	3.08E-04	3.97E-04	9.71E-03	2.44E-02
1.40E-03	6.08E-03	6.02E-03	3.04E-04	9.39E-03	9.39E-03	3.26E-02	1.40E-03	6.08E-03	6.02E-03	3.04E-04	3.98E-04	9.39E-03	2.36E-02
2.62E-03	1.43E-02	6.76E-03	3.35E-04	1.45E-02	1.45E-02	5.31E-02	2.62E-03	1.43E-02	6.76E-03	3.35E-04	3.65E-04	1.45E-02	3.89E-02
2.48E-03	1.34E-02	6.72E-03	3.32E-04	1.41E-02	1.41E-02	5.11E-02	2.48E-03	1.34E-02	6.72E-03	3.32E-04	3.67E-04	1.41E-02	3.74E-02
2.28E-03	1.19E-02	6.64E-03	3.27E-04	1.32E-02	1.32E-02	4.77E-02	2.28E-03	1.19E-02	6.64E-03	3.27E-04	3.70E-04	1.32E-02	3.48E-02
2.14E-03	1.09E-02	6.52E-03	3.22E-04	1.26E-02	1.26E-02	4.52E-02	2.14E-03	1.09E-02	6.52E-03	3.22E-04	3.73E-04	1.26E-02	3.29E-02
2.03E-03	1.02E-02	6.46E-03	3.19E-04	1.22E-02	1.22E-02	4.34E-02	2.03E-03	1.02E-02	6.46E-03	3.19E-04	3.75E-04	1.22E-02	3.16E-02
1.91E-03	9.38E-03	6.36E-03	3.15E-04	1.17E-02	1.17E-02	4.13E-02	1.91E-03	9.38E-03	6.36E-03	3.15E-04	3.77E-04	1.17E-02	3.00E-02
1.77E-03	8.41E-03	6.23E-03	3.08E-04	1.10E-02	1.10E-02	3.87E-02	1.77E-03	8.41E-03	6.23E-03	3.08E-04	3.79E-04	1.10E-02	2.81E-02
1.68E-03	7.83E-03	6.13E-03	3.04E-04	1.06E-02	1.06E-02	3.71E-02	1.68E-03	7.83E-03	6.13E-03	3.04E-04	3.81E-04	1.06E-02	2.69E-02
1.59E-03	7.25E-03	5.99E-03	2.99E-04	1.00E-02	1.00E-02	3.52E-02	1.59E-03	7.25E-03	5.99E-03	2.99E-04	3.81E-04	1.00E-02	2.55E-02
1.55E-03	7.04E-03	5.95E-03	2.97E-04	9.86E-03	9.86E-03	3.46E-02	1.55E-03	7.04E-03	5.95E-03	2.97E-04	3.82E-04	9.86E-03	2.51E-02
1.50E-03	6.82E-03	5.90E-03	2.95E-04	9.68E-03	9.68E-03	3.39E-02	1.50E-03	6.82E-03	5.90E-03	2.95E-04	3.84E-04	9.68E-03	2.46E-02
2.85E-03	1.59E-02	6.48E-03	3.18E-04	1.46E-02	1.46E-02	5.47E-02	2.85E-03	1.59E-02	6.48E-03	3.18E-04	3.53E-04	1.46E-02	4.05E-02
2.67E-03	1.47E-02	6.44E-03	3.15E-04	1.40E-02	1.40E-02	5.22E-02	2.67E-03	1.47E-02	6.44E-03	3.15E-04	3.55E-04	1.40E-02	3.85E-02
2.52E-03	1.37E-02	6.40E-03	3.13E-04	1.36E-02	1.36E-02	5.01E-02	2.52E-03	1.37E-02	6.40E-03	3.13E-04	3.57E-04	1.36E-02	3.69E-02
2.39E-03	1.28E-02	6.35E-03	3.10E-04	1.32E-02	1.32E-02	4.81E-02	2.39E-03	1.28E-02	6.35E-03	3.10E-04	3.58E-04	1.32E-02	3.53E-02
2.23E-03	1.17E-02	6.26E-03	3.07E-04	1.26E-02	1.26E-02	4.57E-02	2.23E-03	1.17E-02	6.26E-03	3.07E-04	3.60E-04	1.26E-02	3.34E-02
2.07E-03	1.05E-02	6.15E-03	3.02E-04	1.19E-02	1.19E-02	4.27E-02	2.07E-03	1.05E-02	6.15E-03	3.02E-04	3.63E-04	1.19E-02	3.12E-02
1.99E-03	1.00E-02	6.11E-03	3.00E-04	1.16E-02	1.16E-02	4.17E-02	1.99E-03	1.00E-02	6.11E-03	3.00E-04	3.64E-04	1.16E-02	3.04E-02
1.88E-03	9.32E-03	6.04E-03	2.97E-04	1.12E-02	1.12E-02	4.00E-02	1.88E-03	9.32E-03	6.04E-03	2.97E-04	3.66E-04	1.12E-02	2.91E-02
1.77E-03	8.50E-03	5.92E-03	2.92E-04	1.06E-02	1.06E-02	3.77E-02	1.77E-03	8.50E-03	5.92E-03	2.92E-04	3.68E-04	1.06E-02	2.74E-02
1.70E-03	8.15E-03	5.87E-03	2.90E-04	1.03E-02	1.03E-02	3.67E-02	1.70E-03	8.15E-03	5.87E-03	2.90E-04	3.70E-04	1.03E-02	2.67E-02
1.65E-03	7.83E-03	5.81E-03	2.88E-04	1.01E-02	1.01E-02	3.58E-02	1.65E-03	7.83E-03	5.81E-03	2.88E-04	3.72E-04	1.01E-02	2.60E-02

3.20E-03	1.82E-02	6.22E-03	3.03E-04	1.48E-02	1.48E-02	5.76E-02	3.20E-03	1.82E-02	6.22E-03	3.03E-04	3.41E-04	1.48E-02	4.31E-02
2.98E-03	1.68E-02	6.19E-03	3.01E-04	1.43E-02	1.43E-02	5.48E-02	2.98E-03	1.68E-02	6.19E-03	3.01E-04	3.43E-04	1.43E-02	4.09E-02
2.79E-03	1.55E-02	6.15E-03	2.99E-04	1.38E-02	1.38E-02	5.24E-02	2.79E-03	1.55E-02	6.15E-03	2.99E-04	3.44E-04	1.38E-02	3.89E-02
2.64E-03	1.46E-02	6.12E-03	2.97E-04	1.34E-02	1.34E-02	5.04E-02	2.64E-03	1.46E-02	6.12E-03	2.97E-04	3.45E-04	1.34E-02	3.74E-02
2.50E-03	1.36E-02	6.08E-03	2.95E-04	1.30E-02	1.30E-02	4.85E-02	2.50E-03	1.36E-02	6.08E-03	2.95E-04	3.47E-04	1.30E-02	3.58E-02
2.37E-03	1.28E-02	6.05E-03	2.93E-04	1.26E-02	1.26E-02	4.68E-02	2.37E-03	1.28E-02	6.05E-03	2.93E-04	3.49E-04	1.26E-02	3.45E-02
2.24E-03	1.19E-02	5.97E-03	2.91E-04	1.22E-02	1.22E-02	4.48E-02	2.24E-03	1.19E-02	5.97E-03	2.91E-04	3.50E-04	1.22E-02	3.30E-02
2.08E-03	1.07E-02	5.87E-03	2.87E-04	1.15E-02	1.15E-02	4.19E-02	2.08E-03	1.07E-02	5.87E-03	2.87E-04	3.53E-04	1.15E-02	3.08E-02
1.97E-03	9.93E-03	5.80E-03	2.84E-04	1.11E-02	1.11E-02	4.02E-02	1.97E-03	9.93E-03	5.80E-03	2.84E-04	3.54E-04	1.11E-02	2.94E-02
1.89E-03	9.45E-03	5.75E-03	2.82E-04	1.08E-02	1.08E-02	3.90E-02	1.89E-03	9.45E-03	5.75E-03	2.82E-04	3.56E-04	1.08E-02	2.85E-02
1.80E-03	8.88E-03	5.69E-03	2.79E-04	1.04E-02	1.04E-02	3.75E-02	1.80E-03	8.88E-03	5.69E-03	2.79E-04	3.58E-04	1.04E-02	2.74E-02
3.65E-03	2.11E-02	5.96E-03	2.89E-04	1.51E-02	1.51E-02	6.13E-02	3.65E-03	2.11E-02	5.96E-03	2.89E-04	3.30E-04	1.51E-02	4.65E-02
3.41E-03	1.96E-02	5.94E-03	2.88E-04	1.47E-02	1.47E-02	5.86E-02	3.41E-03	1.96E-02	5.94E-03	2.88E-04	3.31E-04	1.47E-02	4.43E-02
3.20E-03	1.83E-02	5.92E-03	2.86E-04	1.42E-02	1.42E-02	5.62E-02	3.20E-03	1.83E-02	5.92E-03	2.86E-04	3.32E-04	1.42E-02	4.23E-02
3.01E-03	1.71E-02	5.90E-03	2.85E-04	1.38E-02	1.38E-02	5.40E-02	3.01E-03	1.71E-02	5.90E-03	2.85E-04	3.33E-04	1.38E-02	4.05E-02
2.81E-03	1.58E-02	5.87E-03	2.83E-04	1.33E-02	1.33E-02	5.14E-02	2.81E-03	1.58E-02	5.87E-03	2.83E-04	3.34E-04	1.33E-02	3.84E-02
2.64E-03	1.45E-02	5.83E-03	2.81E-04	1.29E-02	1.29E-02	4.90E-02	2.64E-03	1.45E-02	5.83E-03	2.81E-04	3.36E-04	1.29E-02	3.65E-02
2.49E-03	1.36E-02	5.80E-03	2.80E-04	1.25E-02	1.25E-02	4.71E-02	2.49E-03	1.36E-02	5.80E-03	2.80E-04	3.38E-04	1.25E-02	3.49E-02
2.33E-03	1.24E-02	5.72E-03	2.77E-04	1.20E-02	1.20E-02	4.47E-02	2.33E-03	1.24E-02	5.72E-03	2.77E-04	3.40E-04	1.20E-02	3.31E-02
2.18E-03	1.14E-02	5.65E-03	2.74E-04	1.14E-02	1.14E-02	4.24E-02	2.18E-03	1.14E-02	5.65E-03	2.74E-04	3.41E-04	1.14E-02	3.13E-02
2.10E-03	1.10E-02	5.62E-03	2.73E-04	1.12E-02	1.12E-02	4.14E-02	2.10E-03	1.10E-02	5.62E-03	2.73E-04	3.43E-04	1.12E-02	3.05E-02
2.00E-03	1.03E-02	5.57E-03	2.71E-04	1.09E-02	1.09E-02	3.99E-02	2.00E-03	1.03E-02	5.57E-03	2.71E-04	3.45E-04	1.09E-02	2.94E-02
4.25E-03	2.48E-02	5.70E-03	2.76E-04	1.53E-02	1.53E-02	6.58E-02	4.25E-03	2.48E-02	5.70E-03	2.76E-04	3.19E-04	1.53E-02	5.07E-02
3.95E-03	2.31E-02	5.70E-03	2.75E-04	1.49E-02	1.49E-02	6.28E-02	3.95E-03	2.31E-02	5.70E-03	2.75E-04	3.20E-04	1.49E-02	4.82E-02
3.69E-03	2.14E-02	5.69E-03	2.74E-04	1.45E-02	1.45E-02	6.01E-02	3.69E-03	2.14E-02	5.69E-03	2.74E-04	3.21E-04	1.45E-02	4.59E-02
3.44E-03	1.99E-02	5.67E-03	2.73E-04	1.41E-02	1.41E-02	5.75E-02	3.44E-03	1.99E-02	5.67E-03	2.73E-04	3.22E-04	1.41E-02	4.37E-02
3.23E-03	1.86E-02	5.66E-03	2.72E-04	1.37E-02	1.37E-02	5.51E-02	3.23E-03	1.86E-02	5.66E-03	2.72E-04	3.23E-04	1.37E-02	4.17E-02
3.03E-03	1.73E-02	5.63E-03	2.71E-04	1.33E-02	1.33E-02	5.28E-02	3.03E-03	1.73E-02	5.63E-03	2.71E-04	3.24E-04	1.33E-02	3.98E-02
2.82E-03	1.57E-02	5.60E-03	2.69E-04	1.28E-02	1.28E-02	4.99E-02	2.82E-03	1.57E-02	5.60E-03	2.69E-04	3.26E-04	1.28E-02	3.75E-02
2.63E-03	1.44E-02	5.57E-03	2.67E-04	1.23E-02	1.23E-02	4.76E-02	2.63E-03	1.44E-02	5.57E-03	2.67E-04	3.27E-04	1.23E-02	3.56E-02
2.45E-03	1.31E-02	5.50E-03	2.65E-04	1.18E-02	1.18E-02	4.49E-02	2.45E-03	1.31E-02	5.50E-03	2.65E-04	3.29E-04	1.18E-02	3.34E-02
2.35E-03	1.26E-02	5.47E-03	2.64E-04	1.15E-02	1.15E-02	4.37E-02	2.35E-03	1.26E-02	5.47E-03	2.64E-04	3.31E-04	1.15E-02	3.25E-02
2.27E-03	1.21E-02	5.44E-03	2.63E-04	1.13E-02	1.13E-02	4.28E-02	2.27E-03	1.21E-02	5.44E-03	2.63E-04	3.32E-04	1.13E-02	3.18E-02
5.09E-03	2.98E-02	5.45E-03	2.63E-04	1.55E-02	1.55E-02	7.16E-02	5.09E-03	2.98E-02	5.45E-03	2.63E-04	3.10E-04	1.55E-02	5.64E-02
4.66E-03	2.71E-02	5.46E-03	2.62E-04	1.51E-02	1.51E-02	6.76E-02	4.66E-03	2.71E-02	5.46E-03	2.62E-04	3.10E-04	1.51E-02	5.29E-02
4.32E-03	2.51E-02	5.45E-03	2.62E-04	1.47E-02	1.47E-02	6.45E-02	4.32E-03	2.51E-02	5.45E-03	2.62E-04	3.11E-04	1.47E-02	5.01E-02
4.01E-03	2.33E-02	5.45E-03	2.61E-04	1.43E-02	1.43E-02	6.16E-02	4.01E-03	2.33E-02	5.45E-03	2.61E-04	3.11E-04	1.43E-02	4.76E-02
3.74E-03	2.17E-02	5.44E-03	2.60E-04	1.39E-02	1.39E-02	5.89E-02	3.74E-03	2.17E-02	5.44E-03	2.60E-04	3.12E-04	1.39E-02	4.54E-02
3.48E-03	2.01E-02	5.42E-03	2.59E-04	1.35E-02	1.35E-02	5.62E-02	3.48E-03	2.01E-02	5.42E-03	2.59E-04	3.13E-04	1.35E-02	4.30E-02
3.24E-03	1.85E-02	5.41E-03	2.58E-04	1.31E-02	1.31E-02	5.35E-02	3.24E-03	1.85E-02	5.41E-03	2.58E-04	3.15E-04	1.31E-02	4.08E-02
3.04E-03	1.72E-02	5.39E-03	2.57E-04	1.27E-02	1.27E-02	5.13E-02	3.04E-03	1.72E-02	5.39E-03	2.57E-04	3.16E-04	1.27E-02	3.89E-02
2.85E-03	1.59E-02	5.36E-03	2.56E-04	1.23E-02	1.23E-02	4.90E-02	2.85E-03	1.59E-02	5.36E-03	2.56E-04	3.17E-04	1.23E-02	3.70E-02
2.68E-03	1.48E-02	5.34E-03	2.55E-04	1.19E-02	1.19E-02	4.69E-02	2.68E-03	1.48E-02	5.34E-03	2.55E-04	3.19E-04	1.19E-02	3.53E-02
2.57E-03	1.41E-02	5.32E-03	2.54E-04	1.17E-02	1.17E-02	4.56E-02	2.57E-03	1.41E-02	5.32E-03	2.54E-04	3.20E-04	1.17E-02	3.43E-02
6.37E-03	3.71E-02	5.21E-03	2.51E-04	1.56E-02	1.56E-02	8.01E-02	6.37E-03	3.71E-02	5.21E-03	2.51E-04	3.02E-04	1.56E-02	6.48E-02
5.77E-03	3.35E-02	5.22E-03	2.51E-04	1.52E-02	1.52E-02	7.52E-02	5.77E-03	3.35E-02	5.22E-03	2.51E-04	3.01E-04	1.52E-02	6.03E-02
5.24E-03	3.04E-02	5.22E-03	2.50E-04	1.48E-02	1.48E-02	7.07E-02	5.24E-03	3.04E-02	5.22E-03	2.50E-04	3.02E-04	1.48E-02	5.62E-02
4.81E-03	2.79E-02	5.22E-03	2.50E-04	1.44E-02	1.44E-02	6.70E-02	4.81E-03	2.79E-02	5.22E-03	2.50E-04	3.02E-04	1.44E-02	5.29E-02
4.44E-03	2.58E-02	5.22E-03	2.49E-04	1.41E-02	1.41E-02	6.38E-02	4.44E-03	2.58E-02	5.22E-03	2.49E-04	3.02E-04	1.41E-02	5.00E-02
4.10E-03	2.37E-02	5.22E-03	2.49E-04	1.37E-02	1.37E-02	6.06E-02	4.10E-03	2.37E-02	5.22E-03	2.49E-04	3.03E-04	1.37E-02	4.73E-02
3.80E-03	2.19E-02	5.21E-03	2.48E-04	1.33E-02	1.33E-02	5.77E-02	3.80E-03	2.19E-02	5.21E-03	2.48E-04	3.04E-04	1.33E-02	4.47E-02
3.53E-03	2.02E-02	5.20E-03	2.47E-04	1.29E-02	1.29E-02	5.49E-02	3.53E-03	2.02E-02	5.20E-03	2.47E-04	3.05E-04	1.29E-02	4.24E-02
3.30E-03	1.87E-02	5.18E-03	2.47E-04	1.25E-02	1.25E-02	5.25E-02	3.30E-03	1.87E-02	5.18E-03	2.47E-04	3.06E-04	1.25E-02	4.03E-02
3.10E-03	1.75E-02	5.16E-03	2.46E-04	1.22E-02	1.22E-02	5.05E-02	3.10E-03	1.75E-02	5.16E-03	2.46E-04	3.07E-04	1.22E-02	3.86E-02

2.92E-03	1.64E-02	5.14E-03	2.45E-04	1.19E-02	1.19E-02	4.84E-02	2.92E-03	1.64E-02	5.14E-03	2.45E-04	3.09E-04	1.19E-02	3.69E-02
8.48E-03	4.82E-02	4.97E-03	2.39E-04	1.56E-02	1.56E-02	9.31E-02	8.48E-03	4.82E-02	4.97E-03	2.39E-04	2.94E-04	1.56E-02	7.78E-02
7.52E-03	4.30E-02	4.99E-03	2.39E-04	1.53E-02	1.53E-02	8.63E-02	7.52E-03	4.30E-02	4.99E-03	2.39E-04	2.93E-04	1.53E-02	7.13E-02
6.71E-03	3.87E-02	5.00E-03	2.39E-04	1.49E-02	1.49E-02	8.05E-02	6.71E-03	3.87E-02	5.00E-03	2.39E-04	2.93E-04	1.49E-02	6.59E-02
5.99E-03	3.44E-02	5.01E-03	2.39E-04	1.45E-02	1.45E-02	7.47E-02	5.99E-03	3.44E-02	5.01E-03	2.39E-04	2.93E-04	1.45E-02	6.05E-02
5.46E-03	3.15E-02	5.01E-03	2.39E-04	1.42E-02	1.42E-02	7.06E-02	5.46E-03	3.15E-02	5.01E-03	2.39E-04	2.94E-04	1.42E-02	5.67E-02
4.98E-03	2.87E-02	5.01E-03	2.38E-04	1.38E-02	1.38E-02	6.66E-02	4.98E-03	2.87E-02	5.01E-03	2.38E-04	2.94E-04	1.38E-02	5.31E-02
4.57E-03	2.64E-02	5.01E-03	2.38E-04	1.35E-02	1.35E-02	6.31E-02	4.57E-03	2.64E-02	5.01E-03	2.38E-04	2.95E-04	1.35E-02	5.00E-02
4.20E-03	2.42E-02	5.01E-03	2.38E-04	1.31E-02	1.31E-02	5.98E-02	4.20E-03	2.42E-02	5.01E-03	2.38E-04	2.96E-04	1.31E-02	4.70E-02
3.86E-03	2.20E-02	5.00E-03	2.37E-04	1.27E-02	1.27E-02	5.65E-02	3.86E-03	2.20E-02	5.00E-03	2.37E-04	2.97E-04	1.27E-02	4.41E-02
3.58E-03	2.03E-02	4.99E-03	2.36E-04	1.23E-02	1.23E-02	5.38E-02	3.58E-03	2.03E-02	4.99E-03	2.36E-04	2.98E-04	1.23E-02	4.18E-02
3.34E-03	1.88E-02	4.97E-03	2.36E-04	1.20E-02	1.20E-02	5.13E-02	3.34E-03	1.88E-02	4.97E-03	2.36E-04	2.99E-04	1.20E-02	3.96E-02
6.09E-03	3.56E-02	5.64E-03	2.75E-04	1.69E-02	1.69E-02	8.14E-02	6.09E-03	3.56E-02	5.64E-03	2.75E-04	3.17E-04	1.69E-02	6.48E-02
5.51E-03	3.23E-02	5.64E-03	2.74E-04	1.65E-02	1.65E-02	7.67E-02	5.51E-03	3.23E-02	5.64E-03	2.74E-04	3.17E-04	1.65E-02	6.05E-02
5.02E-03	2.95E-02	5.65E-03	2.74E-04	1.60E-02	1.60E-02	7.24E-02	5.02E-03	2.95E-02	5.65E-03	2.74E-04	3.17E-04	1.60E-02	5.67E-02
4.59E-03	2.68E-02	5.65E-03	2.73E-04	1.56E-02	1.56E-02	6.84E-02	4.59E-03	2.68E-02	5.65E-03	2.73E-04	3.17E-04	1.56E-02	5.32E-02
7.68E-03	4.39E-02	5.37E-03	2.61E-04	1.69E-02	1.69E-02	9.11E-02	7.68E-03	4.39E-02	5.37E-03	2.61E-04	3.09E-04	1.69E-02	7.45E-02
6.84E-03	3.96E-02	5.38E-03	2.61E-04	1.65E-02	1.65E-02	8.52E-02	6.84E-03	3.96E-02	5.38E-03	2.61E-04	3.09E-04	1.65E-02	6.89E-02
6.14E-03	3.58E-02	5.39E-03	2.61E-04	1.61E-02	1.61E-02	7.97E-02	6.14E-03	3.58E-02	5.39E-03	2.61E-04	3.08E-04	1.61E-02	6.39E-02
5.58E-03	3.26E-02	5.40E-03	2.60E-04	1.57E-02	1.57E-02	7.52E-02	5.58E-03	3.26E-02	5.40E-03	2.60E-04	3.08E-04	1.57E-02	5.98E-02
6.91E-03	3.99E-02	5.25E-03	2.53E-04	1.60E-02	1.60E-02	8.44E-02	6.91E-03	3.99E-02	5.25E-03	2.53E-04	3.04E-04	1.60E-02	6.87E-02
6.51E-03	3.78E-02	5.25E-03	2.53E-04	1.58E-02	1.58E-02	8.15E-02	6.51E-03	3.78E-02	5.25E-03	2.53E-04	3.03E-04	1.58E-02	6.60E-02
8.22E-03	4.68E-02	5.10E-03	2.46E-04	1.61E-02	1.61E-02	9.26E-02	8.22E-03	4.68E-02	5.10E-03	2.46E-04	2.99E-04	1.61E-02	7.68E-02
7.65E-03	4.39E-02	5.11E-03	2.46E-04	1.59E-02	1.59E-02	8.86E-02	7.65E-03	4.39E-02	5.11E-03	2.46E-04	2.98E-04	1.59E-02	7.31E-02
2.18E-03	1.09E-02	7.76E-03	3.96E-04	1.46E-02	1.46E-02	5.04E-02	2.18E-03	1.09E-02	7.76E-03	3.96E-04	4.09E-04	1.46E-02	3.62E-02
2.33E-03	1.21E-02	7.44E-03	3.76E-04	1.47E-02	1.47E-02	5.16E-02	2.33E-03	1.21E-02	7.44E-03	3.76E-04	3.93E-04	1.47E-02	3.73E-02
3.32E-03	1.82E-02	7.33E-03	3.73E-04	1.73E-02	1.73E-02	6.38E-02	3.32E-03	1.82E-02	7.33E-03	3.73E-04	3.71E-04	1.73E-02	4.69E-02
3.13E-03	1.71E-02	7.29E-03	3.70E-04	1.68E-02	1.68E-02	6.16E-02	3.13E-03	1.71E-02	7.29E-03	3.70E-04	3.72E-04	1.68E-02	4.51E-02
2.67E-03	1.46E-02	7.17E-03	3.61E-04	1.55E-02	1.55E-02	5.57E-02	2.67E-03	1.46E-02	7.17E-03	3.61E-04	3.76E-04	1.55E-02	4.06E-02
2.52E-03	1.35E-02	7.12E-03	3.57E-04	1.49E-02	1.49E-02	5.33E-02	2.52E-03	1.35E-02	7.12E-03	3.57E-04	3.78E-04	1.49E-02	3.88E-02
3.74E-03	2.11E-02	6.98E-03	3.52E-04	1.76E-02	1.76E-02	6.74E-02	3.74E-03	2.11E-02	6.98E-03	3.52E-04	3.59E-04	1.76E-02	5.02E-02
3.53E-03	2.00E-02	6.94E-03	3.49E-04	1.72E-02	1.72E-02	6.52E-02	3.53E-03	2.00E-02	6.94E-03	3.49E-04	3.59E-04	1.72E-02	4.83E-02
3.32E-03	1.87E-02	6.92E-03	3.47E-04	1.67E-02	1.67E-02	6.27E-02	3.32E-03	1.87E-02	6.92E-03	3.47E-04	3.59E-04	1.67E-02	4.64E-02
3.10E-03	1.74E-02	6.89E-03	3.44E-04	1.61E-02	1.61E-02	6.00E-02	3.10E-03	1.74E-02	6.89E-03	3.44E-04	3.61E-04	1.61E-02	4.42E-02
2.90E-03	1.61E-02	6.86E-03	3.41E-04	1.55E-02	1.55E-02	5.71E-02	2.90E-03	1.61E-02	6.86E-03	3.41E-04	3.63E-04	1.55E-02	4.20E-02
2.73E-03	1.51E-02	6.82E-03	3.39E-04	1.50E-02	1.50E-02	5.49E-02	2.73E-03	1.51E-02	6.82E-03	3.39E-04	3.65E-04	1.50E-02	4.03E-02
4.26E-03	2.45E-02	6.65E-03	3.32E-04	1.77E-02	1.77E-02	7.12E-02	4.26E-03	2.45E-02	6.65E-03	3.32E-04	3.48E-04	1.77E-02	5.38E-02
3.97E-03	2.29E-02	6.62E-03	3.30E-04	1.73E-02	1.73E-02	6.85E-02	3.97E-03	2.29E-02	6.62E-03	3.30E-04	3.48E-04	1.73E-02	5.15E-02
3.72E-03	2.14E-02	6.60E-03	3.28E-04	1.68E-02	1.68E-02	6.57E-02	3.72E-03	2.14E-02	6.60E-03	3.28E-04	3.48E-04	1.68E-02	4.92E-02
3.45E-03	1.98E-02	6.59E-03	3.26E-04	1.63E-02	1.63E-02	6.27E-02	3.45E-03	1.98E-02	6.59E-03	3.26E-04	3.49E-04	1.63E-02	4.68E-02
3.22E-03	1.83E-02	6.56E-03	3.24E-04	1.57E-02	1.57E-02	5.97E-02	3.22E-03	1.83E-02	6.56E-03	3.24E-04	3.51E-04	1.57E-02	4.44E-02
3.02E-03	1.70E-02	6.54E-03	3.22E-04	1.52E-02	1.52E-02	5.73E-02	3.02E-03	1.70E-02	6.54E-03	3.22E-04	3.52E-04	1.52E-02	4.24E-02
4.95E-03	2.87E-02	6.33E-03	3.14E-04	1.78E-02	1.78E-02	7.59E-02	4.95E-03	2.87E-02	6.33E-03	3.14E-04	3.39E-04	1.78E-02	5.84E-02
4.57E-03	2.66E-02	6.31E-03	3.12E-04	1.74E-02	1.74E-02	7.27E-02	4.57E-03	2.66E-02	6.31E-03	3.12E-04	3.38E-04	1.74E-02	5.56E-02
4.23E-03	2.47E-02	6.30E-03	3.11E-04	1.69E-02	1.69E-02	6.94E-02	4.23E-03	2.47E-02	6.30E-03	3.11E-04	3.38E-04	1.69E-02	5.28E-02
3.92E-03	2.28E-02	6.29E-03	3.09E-04	1.64E-02	1.64E-02	6.61E-02	3.92E-03	2.28E-02	6.29E-03	3.09E-04	3.39E-04	1.64E-02	5.00E-02
3.63E-03	2.10E-02	6.28E-03	3.08E-04	1.59E-02	1.59E-02	6.30E-02	3.63E-03	2.10E-02	6.28E-03	3.08E-04	3.39E-04	1.59E-02	4.74E-02
3.37E-03	1.93E-02	6.26E-03	3.06E-04	1.53E-02	1.53E-02	5.99E-02	3.37E-03	1.93E-02	6.26E-03	3.06E-04	3.41E-04	1.53E-02	4.49E-02
5.93E-03	3.44E-02	6.02E-03	2.97E-04	1.79E-02	1.79E-02	8.25E-02	5.93E-03	3.44E-02	6.02E-03	2.97E-04	3.30E-04	1.79E-02	6.49E-02
5.40E-03	3.16E-02	6.01E-03	2.96E-04	1.75E-02	1.75E-02	7.83E-02	5.40E-03	3.16E-02	6.01E-03	2.96E-04	3.29E-04	1.75E-02	6.11E-02
4.94E-03	2.90E-02	6.01E-03	2.95E-04	1.70E-02	1.70E-02	7.43E-02	4.94E-03	2.90E-02	6.01E-03	2.95E-04	3.28E-04	1.70E-02	5.76E-02
4.52E-03	2.66E-02	6.01E-03	2.94E-04	1.65E-02	1.65E-02	7.04E-02	4.52E-03	2.66E-02	6.01E-03	2.94E-04	3.29E-04	1.65E-02	5.42E-02
4.17E-03	2.43E-02	6.00E-03	2.93E-04	1.61E-02	1.61E-02	6.69E-02	4.17E-03	2.43E-02	6.00E-03	2.93E-04	3.29E-04	1.61E-02	5.12E-02
3.84E-03	2.24E-02	5.99E-03	2.91E-04	1.55E-02	1.55E-02	6.35E-02	3.84E-03	2.24E-02	5.99E-03	2.91E-04	3.30E-04	1.55E-02	4.83E-02

7.38E-03	4.22E-02	5.72E-03	2.81E-04	1.80E-02	1.80E-02	9.16E-02	7.38E-03	4.22E-02	5.72E-03	2.81E-04	3.22E-04	1.80E-02	7.39E-02
6.57E-03	3.80E-02	5.72E-03	2.80E-04	1.75E-02	1.75E-02	8.57E-02	6.57E-03	3.80E-02	5.72E-03	2.80E-04	3.21E-04	1.75E-02	6.85E-02
5.90E-03	3.45E-02	5.73E-03	2.80E-04	1.71E-02	1.71E-02	8.06E-02	5.90E-03	3.45E-02	5.73E-03	2.80E-04	3.20E-04	1.71E-02	6.38E-02
5.35E-03	3.15E-02	5.73E-03	2.79E-04	1.66E-02	1.66E-02	7.61E-02	5.35E-03	3.15E-02	5.73E-03	2.79E-04	3.20E-04	1.66E-02	5.98E-02
4.87E-03	2.86E-02	5.73E-03	2.79E-04	1.61E-02	1.61E-02	7.18E-02	4.87E-03	2.86E-02	5.73E-03	2.79E-04	3.20E-04	1.61E-02	5.60E-02
4.46E-03	2.60E-02	5.73E-03	2.78E-04	1.57E-02	1.57E-02	6.78E-02	4.46E-03	2.60E-02	5.73E-03	2.78E-04	3.20E-04	1.57E-02	5.24E-02
1.34E-02	7.18E-02	5.00E-03	2.44E-04	1.71E-02	1.71E-02	1.25E-01	1.34E-02	7.18E-02	5.00E-03	2.44E-04	3.00E-04	1.71E-02	1.08E-01
1.29E-02	6.97E-02	5.00E-03	2.44E-04	1.71E-02	1.71E-02	1.22E-01	1.29E-02	6.97E-02	5.00E-03	2.44E-04	3.00E-04	1.71E-02	1.05E-01
1.48E-02	7.86E-02	4.95E-03	2.41E-04	1.71E-02	1.71E-02	1.33E-01	1.48E-02	7.86E-02	4.95E-03	2.41E-04	2.99E-04	1.71E-02	1.16E-01
1.42E-02	7.60E-02	4.95E-03	2.41E-04	1.71E-02	1.71E-02	1.30E-01	1.42E-02	7.60E-02	4.95E-03	2.41E-04	2.99E-04	1.71E-02	1.13E-01
1.27E-02	6.66E-02	6.04E-03	3.05E-04	2.09E-02	2.09E-02	1.27E-01	1.27E-02	6.66E-02	6.04E-03	3.05E-04	3.42E-04	2.09E-02	1.07E-01
1.17E-02	6.19E-02	6.04E-03	3.05E-04	2.06E-02	2.06E-02	1.21E-01	1.17E-02	6.19E-02	6.04E-03	3.05E-04	3.41E-04	2.06E-02	1.01E-01
1.51E-02	7.77E-02	5.90E-03	2.97E-04	2.08E-02	2.08E-02	1.41E-01	1.51E-02	7.77E-02	5.90E-03	2.97E-04	3.39E-04	2.08E-02	1.20E-01
1.37E-02	7.14E-02	5.91E-03	2.97E-04	2.06E-02	2.06E-02	1.32E-01	1.37E-02	7.14E-02	5.91E-03	2.97E-04	3.38E-04	2.06E-02	1.12E-01
1.22E-02	6.40E-02	6.16E-03	3.12E-04	2.12E-02	2.12E-02	1.25E-01	1.22E-02	6.40E-02	6.16E-03	3.12E-04	3.45E-04	2.12E-02	1.04E-01
1.12E-02	5.97E-02	6.16E-03	3.12E-04	2.09E-02	2.09E-02	1.19E-01	1.12E-02	5.97E-02	6.16E-03	3.12E-04	3.44E-04	2.09E-02	9.87E-02
1.44E-02	7.43E-02	6.02E-03	3.04E-04	2.12E-02	2.12E-02	1.37E-01	1.44E-02	7.43E-02	6.02E-03	3.04E-04	3.43E-04	2.12E-02	1.17E-01
1.31E-02	6.85E-02	6.03E-03	3.04E-04	2.09E-02	2.09E-02	1.30E-01	1.31E-02	6.85E-02	6.03E-03	3.04E-04	3.42E-04	2.09E-02	1.09E-01
1.12E-02	5.73E-02	7.00E-03	3.69E-04	2.38E-02	2.38E-02	1.23E-01	1.12E-02	5.73E-02	7.00E-03	3.69E-04	3.70E-04	2.38E-02	1.00E-01
1.04E-02	5.37E-02	7.00E-03	3.68E-04	2.34E-02	2.34E-02	1.18E-01	1.04E-02	5.37E-02	7.00E-03	3.68E-04	3.69E-04	2.34E-02	9.51E-02
1.31E-02	6.60E-02	6.82E-03	3.57E-04	2.39E-02	2.39E-02	1.34E-01	1.31E-02	6.60E-02	6.82E-03	3.57E-04	3.67E-04	2.39E-02	1.11E-01
1.20E-02	6.12E-02	6.83E-03	3.57E-04	2.35E-02	2.35E-02	1.27E-01	1.20E-02	6.12E-02	6.83E-03	3.57E-04	3.66E-04	2.35E-02	1.04E-01
1.10E-02	5.21E-02	8.38E-03	4.81E-04	2.71E-02	2.71E-02	1.26E-01	1.10E-02	5.21E-02	8.38E-03	4.81E-04	4.03E-04	2.71E-02	9.94E-02
9.19E-03	4.45E-02	8.36E-03	4.76E-04	2.59E-02	2.59E-02	1.14E-01	9.19E-03	4.45E-02	8.36E-03	4.76E-04	4.00E-04	2.59E-02	8.89E-02
1.70E-02	7.61E-02	7.75E-03	4.30E-04	2.78E-02	2.78E-02	1.57E-01	1.70E-02	7.61E-02	7.75E-03	4.30E-04	3.95E-04	2.78E-02	1.29E-01
1.31E-02	6.18E-02	7.76E-03	4.29E-04	2.66E-02	2.66E-02	1.36E-01	1.31E-02	6.18E-02	7.76E-03	4.29E-04	3.92E-04	2.66E-02	1.10E-01
6.09E-03	4.34E-03	1.89E-02	1.85E-03	2.04E-02	2.04E-02	7.21E-02	6.09E-03	4.34E-03	1.89E-02	1.85E-03	5.29E-04	2.04E-02	5.22E-02
5.65E-03	4.34E-03	1.86E-02	1.74E-03	2.02E-02	2.02E-02	7.07E-02	5.65E-03	4.34E-03	1.86E-02	1.74E-03	5.27E-04	2.02E-02	5.10E-02
6.86E-03	4.83E-03	1.88E-02	2.01E-03	2.15E-02	2.15E-02	7.55E-02	6.86E-03	4.83E-03	1.88E-02	2.01E-03	5.20E-04	2.15E-02	5.45E-02
6.31E-03	4.83E-03	1.84E-02	1.87E-03	2.13E-02	2.13E-02	7.39E-02	6.31E-03	4.83E-03	1.84E-02	1.87E-03	5.18E-04	2.13E-02	5.32E-02
6.19E-03	4.61E-03	1.86E-02	1.86E-03	2.09E-02	2.09E-02	7.30E-02	6.19E-03	4.61E-03	1.86E-02	1.86E-03	5.23E-04	2.09E-02	5.26E-02
5.75E-03	4.61E-03	1.82E-02	1.74E-03	2.07E-02	2.07E-02	7.16E-02	5.75E-03	4.61E-03	1.82E-02	1.74E-03	5.21E-04	2.07E-02	5.15E-02
7.00E-03	5.18E-03	1.85E-02	2.01E-03	2.21E-02	2.21E-02	7.68E-02	7.00E-03	5.18E-03	1.85E-02	2.01E-03	5.14E-04	2.21E-02	5.52E-02
6.44E-03	5.17E-03	1.80E-02	1.87E-03	2.18E-02	2.18E-02	7.51E-02	6.44E-03	5.17E-03	1.80E-02	1.87E-03	5.12E-04	2.18E-02	5.38E-02
6.39E-03	4.96E-03	1.82E-02	1.88E-03	2.15E-02	2.15E-02	7.45E-02	6.39E-03	4.96E-03	1.82E-02	1.88E-03	5.16E-04	2.15E-02	5.35E-02
5.92E-03	4.95E-03	1.79E-02	1.76E-03	2.12E-02	2.12E-02	7.29E-02	5.92E-03	4.95E-03	1.79E-02	1.76E-03	5.14E-04	2.12E-02	5.22E-02
7.27E-03	5.63E-03	1.82E-02	2.04E-03	2.27E-02	2.27E-02	7.85E-02	7.27E-03	5.63E-03	1.82E-02	2.04E-03	5.08E-04	2.27E-02	5.63E-02
6.67E-03	5.63E-03	1.77E-02	1.89E-03	2.24E-02	2.24E-02	7.68E-02	6.67E-03	5.63E-03	1.77E-02	1.89E-03	5.06E-04	2.24E-02	5.49E-02
5.73E-03	2.61E-03	2.68E-02	1.85E-03	1.75E-02	1.75E-02	7.20E-02	5.73E-03	2.61E-03	2.68E-02	1.85E-03	6.18E-04	1.75E-02	5.51E-02
5.37E-03	2.62E-03	2.62E-02	1.77E-03	1.74E-02	1.74E-02	7.08E-02	5.37E-03	2.62E-03	2.62E-02	1.77E-03	6.16E-04	1.74E-02	5.40E-02
6.27E-03	2.73E-03	2.59E-02	1.96E-03	1.78E-02	1.78E-02	7.26E-02	6.27E-03	2.73E-03	2.59E-02	1.96E-03	6.08E-04	1.78E-02	5.53E-02
5.83E-03	2.74E-03	2.54E-02	1.86E-03	1.77E-02	1.77E-02	7.12E-02	5.83E-03	2.74E-03	2.54E-02	1.86E-03	6.06E-04	1.77E-02	5.41E-02
5.45E-03	2.75E-03	2.49E-02	1.78E-03	1.76E-02	1.76E-02	7.00E-02	5.45E-03	2.75E-03	2.49E-02	1.78E-03	6.04E-04	1.76E-02	5.31E-02
6.93E-03	2.85E-03	2.51E-02	2.09E-03	1.82E-02	1.82E-02	7.35E-02	6.93E-03	2.85E-03	2.51E-02	2.09E-03	5.97E-04	1.82E-02	5.58E-02
6.39E-03	2.87E-03	2.46E-02	1.98E-03	1.81E-02	1.81E-02	7.20E-02	6.39E-03	2.87E-03	2.46E-02	1.98E-03	5.95E-04	1.81E-02	5.45E-02
5.93E-03	2.88E-03	2.42E-02	1.88E-03	1.79E-02	1.79E-02	7.07E-02	5.93E-03	2.88E-03	2.42E-02	1.88E-03	5.93E-04	1.79E-02	5.34E-02
1.44E-03	9.95E-04	3.24E-02	2.12E-03	1.17E-02	1.17E-02	6.03E-02	1.44E-03	9.95E-04	3.24E-02	2.12E-03	3.74E-03	1.17E-02	5.24E-02
1.40E-03	1.00E-03	3.17E-02	2.04E-03	1.16E-02	1.16E-02	5.92E-02	1.40E-03	1.00E-03	3.17E-02	2.04E-03	3.60E-03	1.16E-02	5.13E-02
1.37E-03	1.00E-03	3.10E-02	1.98E-03	1.14E-02	1.14E-02	5.81E-02	1.37E-03	1.00E-03	3.10E-02	1.98E-03	3.48E-03	1.14E-02	5.02E-02
1.45E-03	1.01E-03	3.24E-02	2.07E-03	1.14E-02	1.14E-02	5.98E-02	1.45E-03	1.01E-03	3.24E-02	2.07E-03	3.38E-03	1.14E-02	5.18E-02
1.41E-03	1.01E-03	3.17E-02	2.00E-03	1.13E-02	1.13E-02	5.87E-02	1.41E-03	1.01E-03	3.17E-02	2.00E-03	3.28E-03	1.13E-02	5.07E-02
1.46E-03	1.02E-03	3.24E-02	2.03E-03	1.12E-02	1.12E-02	5.94E-02	1.46E-03	1.02E-03	3.24E-02	2.03E-03	3.06E-03	1.12E-02	5.12E-02
1.42E-03	9.83E-04	3.23E-02	2.16E-03	1.21E-02	1.21E-02	6.10E-02	1.42E-03	9.83E-04	3.23E-02	2.16E-03	4.18E-03	1.21E-02	5.31E-02
1.39E-03	9.89E-04	3.16E-02	2.08E-03	1.19E-02	1.19E-02	5.99E-02	1.39E-03	9.89E-04	3.16E-02	2.08E-03	4.01E-03	1.19E-02	5.20E-02

1.43E-03	9.94E-04	3.23E-02	2.12E-03	1.17E-02	1.17E-02	6.04E-02	1.43E-03	9.94E-04	3.23E-02	2.12E-03	3.79E-03	1.17E-02	5.24E-02
1.42E-03	9.60E-04	3.21E-02	2.34E-03	1.36E-02	1.36E-02	6.41E-02	1.42E-03	9.60E-04	3.21E-02	2.34E-03	5.68E-03	1.36E-02	5.61E-02
1.39E-03	9.62E-04	3.15E-02	2.26E-03	1.33E-02	1.33E-02	6.26E-02	1.39E-03	9.62E-04	3.15E-02	2.26E-03	5.42E-03	1.33E-02	5.48E-02
1.35E-03	9.61E-04	3.08E-02	2.19E-03	1.29E-02	1.29E-02	6.11E-02	1.35E-03	9.61E-04	3.08E-02	2.19E-03	5.19E-03	1.29E-02	5.34E-02
1.32E-03	9.66E-04	3.03E-02	2.11E-03	1.27E-02	1.27E-02	6.00E-02	1.32E-03	9.66E-04	3.03E-02	2.11E-03	4.95E-03	1.27E-02	5.23E-02
1.48E-03	9.66E-04	3.31E-02	2.37E-03	1.35E-02	1.35E-02	6.50E-02	1.48E-03	9.66E-04	3.31E-02	2.37E-03	5.45E-03	1.35E-02	5.69E-02
1.43E-03	9.66E-04	3.23E-02	2.30E-03	1.31E-02	1.31E-02	6.33E-02	1.43E-03	9.66E-04	3.23E-02	2.30E-03	5.22E-03	1.31E-02	5.54E-02
1.39E-03	9.65E-04	3.16E-02	2.22E-03	1.28E-02	1.28E-02	6.18E-02	1.39E-03	9.65E-04	3.16E-02	2.22E-03	4.99E-03	1.28E-02	5.40E-02
1.36E-03	9.71E-04	3.10E-02	2.14E-03	1.26E-02	1.26E-02	6.07E-02	1.36E-03	9.71E-04	3.10E-02	2.14E-03	4.77E-03	1.26E-02	5.29E-02
1.48E-03	9.72E-04	3.32E-02	2.34E-03	1.30E-02	1.30E-02	6.40E-02	1.48E-03	9.72E-04	3.32E-02	2.34E-03	4.96E-03	1.30E-02	5.60E-02
1.44E-03	9.74E-04	3.25E-02	2.26E-03	1.27E-02	1.27E-02	6.26E-02	1.44E-03	9.74E-04	3.25E-02	2.26E-03	4.75E-03	1.27E-02	5.46E-02
1.41E-03	9.78E-04	3.19E-02	2.18E-03	1.24E-02	1.24E-02	6.13E-02	1.41E-03	9.78E-04	3.19E-02	2.18E-03	4.55E-03	1.24E-02	5.34E-02
1.39E-03	9.26E-04	3.04E-02	2.61E-03	1.50E-02	1.50E-02	6.54E-02	1.39E-03	9.26E-04	3.04E-02	2.61E-03	7.49E-03	1.50E-02	5.78E-02
1.36E-03	9.29E-04	2.99E-02	2.52E-03	1.47E-02	1.47E-02	6.40E-02	1.36E-03	9.29E-04	2.99E-02	2.52E-03	7.19E-03	1.47E-02	5.65E-02
1.44E-03	9.27E-04	3.14E-02	2.70E-03	1.55E-02	1.55E-02	6.74E-02	1.44E-03	9.27E-04	3.14E-02	2.70E-03	7.72E-03	1.55E-02	5.97E-02
1.40E-03	9.30E-04	3.08E-02	2.59E-03	1.50E-02	1.50E-02	6.59E-02	1.40E-03	9.30E-04	3.08E-02	2.59E-03	7.39E-03	1.50E-02	5.82E-02
1.55E-03	1.01E-03	2.49E-02	2.80E-03	1.23E-02	1.23E-02	5.50E-02	1.55E-03	1.01E-03	2.49E-02	2.80E-03	7.44E-03	1.23E-02	5.01E-02
1.47E-03	9.94E-04	2.36E-02	2.61E-03	1.16E-02	1.16E-02	5.19E-02	1.47E-03	9.94E-04	2.36E-02	2.61E-03	6.88E-03	1.16E-02	4.72E-02
1.41E-03	9.90E-04	2.29E-02	2.50E-03	1.12E-02	1.12E-02	5.02E-02	1.41E-03	9.90E-04	2.29E-02	2.50E-03	6.55E-03	1.12E-02	4.56E-02
1.63E-03	9.97E-04	2.58E-02	2.94E-03	1.31E-02	1.31E-02	5.76E-02	1.63E-03	9.97E-04	2.58E-02	2.94E-03	7.95E-03	1.31E-02	5.24E-02
1.53E-03	9.85E-04	2.46E-02	2.75E-03	1.23E-02	1.23E-02	5.45E-02	1.53E-03	9.85E-04	2.46E-02	2.75E-03	7.38E-03	1.23E-02	4.96E-02
1.48E-03	9.83E-04	2.41E-02	2.65E-03	1.20E-02	1.20E-02	5.32E-02	1.48E-03	9.83E-04	2.41E-02	2.65E-03	7.09E-03	1.20E-02	4.83E-02
1.71E-03	9.88E-04	2.67E-02	3.10E-03	1.39E-02	1.39E-02	6.02E-02	1.71E-03	9.88E-04	2.67E-02	3.10E-03	8.49E-03	1.39E-02	5.49E-02
1.63E-03	9.84E-04	2.60E-02	2.96E-03	1.34E-02	1.34E-02	5.84E-02	1.63E-03	9.84E-04	2.60E-02	2.96E-03	8.09E-03	1.34E-02	5.31E-02
1.55E-03	9.78E-04	2.52E-02	2.82E-03	1.29E-02	1.29E-02	5.63E-02	1.55E-03	9.78E-04	2.52E-02	2.82E-03	7.67E-03	1.29E-02	5.11E-02
1.83E-03	9.87E-04	2.83E-02	3.35E-03	1.51E-02	1.51E-02	6.46E-02	1.83E-03	9.87E-04	2.83E-02	3.35E-03	9.33E-03	1.51E-02	5.88E-02
1.73E-03	9.82E-04	2.75E-02	3.18E-03	1.45E-02	1.45E-02	6.23E-02	1.73E-03	9.82E-04	2.75E-02	3.18E-03	8.82E-03	1.45E-02	5.66E-02
1.64E-03	9.75E-04	2.65E-02	3.01E-03	1.38E-02	1.38E-02	5.98E-02	1.64E-03	9.75E-04	2.65E-02	3.01E-03	8.31E-03	1.38E-02	5.43E-02
3.10E-03	2.03E-03	2.95E-02	1.31E-03	1.62E-02	1.62E-02	6.83E-02	3.10E-03	2.03E-03	2.95E-02	1.31E-03	7.25E-04	1.62E-02	5.28E-02
2.99E-03	2.04E-03	2.87E-02	1.28E-03	1.60E-02	1.60E-02	6.71E-02	2.99E-03	2.04E-03	2.87E-02	1.28E-03	7.25E-04	1.60E-02	5.18E-02
3.27E-03	2.11E-03	2.89E-02	1.34E-03	1.62E-02	1.62E-02	6.79E-02	3.27E-03	2.11E-03	2.89E-02	1.34E-03	7.02E-04	1.62E-02	5.25E-02
3.14E-03	2.12E-03	2.82E-02	1.30E-03	1.60E-02	1.60E-02	6.68E-02	3.14E-03	2.12E-03	2.82E-02	1.30E-03	7.02E-04	1.60E-02	5.14E-02
3.17E-03	2.20E-02	6.94E-04	3.25E-05	3.22E-04	3.22E-04	2.65E-02	3.17E-03	2.20E-02	6.94E-04	3.25E-05	4.48E-05	3.22E-04	2.62E-02
1.90E-03	1.35E-02	6.61E-04	4.00E-05	2.96E-04	2.96E-04	1.67E-02	1.90E-03	1.35E-02	6.61E-04	4.00E-05	6.47E-05	2.96E-04	1.65E-02
1.84E-03	1.32E-02	6.50E-04	4.04E-05	2.94E-04	2.94E-04	1.63E-02	1.84E-03	1.32E-02	6.50E-04	4.04E-05	6.64E-05	2.94E-04	1.60E-02
1.79E-03	1.29E-02	6.42E-04	4.08E-05	2.93E-04	2.93E-04	1.59E-02	1.79E-03	1.29E-02	6.42E-04	4.08E-05	6.80E-05	2.93E-04	1.57E-02
3.33E-03	2.30E-02	7.06E-04	3.31E-05	3.28E-04	3.28E-04	2.77E-02	3.33E-03	2.30E-02	7.06E-04	3.31E-05	4.54E-05	3.28E-04	2.74E-02
3.17E-03	2.20E-02	7.16E-04	3.37E-05	3.27E-04	3.27E-04	2.66E-02	3.17E-03	2.20E-02	7.16E-04	3.37E-05	4.64E-05	3.27E-04	2.63E-02
3.02E-03	2.11E-02	7.24E-04	3.43E-05	3.26E-04	3.26E-04	2.55E-02	3.02E-03	2.11E-02	7.24E-04	3.43E-05	4.75E-05	3.26E-04	2.53E-02
2.65E-03	1.87E-02	7.35E-04	3.61E-05	3.21E-04	3.21E-04	2.28E-02	2.65E-03	1.87E-02	7.35E-04	3.61E-05	5.16E-05	3.21E-04	2.25E-02
2.56E-03	1.81E-02	7.40E-04	3.70E-05	3.23E-04	3.23E-04	2.21E-02	2.56E-03	1.81E-02	7.40E-04	3.70E-05	5.34E-05	3.23E-04	2.18E-02
2.46E-03	1.75E-02	7.40E-04	3.77E-05	3.22E-04	3.22E-04	2.14E-02	2.46E-03	1.75E-02	7.40E-04	3.77E-05	5.52E-05	3.22E-04	2.11E-02
2.37E-03	1.69E-02	7.36E-04	3.83E-05	3.21E-04	3.21E-04	2.07E-02	2.37E-03	1.69E-02	7.36E-04	3.83E-05	5.70E-05	3.21E-04	2.04E-02
2.29E-03	1.64E-02	7.34E-04	3.91E-05	3.20E-04	3.20E-04	2.01E-02	2.29E-03	1.64E-02	7.34E-04	3.91E-05	5.89E-05	3.20E-04	1.98E-02
2.19E-03	1.57E-02	7.18E-04	3.95E-05	3.13E-04	3.13E-04	1.93E-02	2.19E-03	1.57E-02	7.18E-04	3.95E-05	6.06E-05	3.13E-04	1.90E-02
2.08E-03	1.48E-02	6.91E-04	3.95E-05	3.03E-04	3.03E-04	1.82E-02	2.08E-03	1.48E-02	6.91E-04	3.95E-05	6.19E-05	3.03E-04	1.80E-02
2.06E-03	1.48E-02	7.04E-04	4.07E-05	3.12E-04	3.12E-04	1.82E-02	2.06E-03	1.48E-02	7.04E-04	4.07E-05	6.45E-05	3.12E-04	1.80E-02
1.95E-03	1.40E-02	6.74E-04	4.06E-05	3.01E-04	3.01E-04	1.73E-02	1.95E-03	1.40E-02	6.74E-04	4.06E-05	6.57E-05	3.01E-04	1.70E-02
1.92E-03	1.39E-02	6.78E-04	4.15E-05	3.05E-04	3.05E-04	1.71E-02	1.92E-03	1.39E-02	6.78E-04	4.15E-05	6.78E-05	3.05E-04	1.69E-02
3.71E-03	2.52E-02	7.05E-04	3.31E-05	3.33E-04	3.33E-04	3.04E-02	3.71E-03	2.52E-02	7.05E-04	3.31E-05	4.51E-05	3.33E-04	3.01E-02
3.52E-03	2.41E-02	7.17E-04	3.36E-05	3.32E-04	3.32E-04	2.90E-02	3.52E-03	2.41E-02	7.17E-04	3.36E-05	4.60E-05	3.32E-04	2.87E-02
3.33E-03	2.30E-02	7.27E-04	3.42E-05	3.31E-04	3.31E-04	2.78E-02	3.33E-03	2.30E-02	7.27E-04	3.42E-05	4.70E-05	3.31E-04	2.75E-02
2.90E-03	2.04E-02	7.51E-04	3.63E-05	3.31E-04	3.31E-04	2.47E-02	2.90E-03	2.04E-02	7.51E-04	3.63E-05	5.10E-05	3.31E-04	2.44E-02
2.77E-03	1.95E-02	7.53E-04	3.70E-05	3.30E-04	3.30E-04	2.38E-02	2.77E-03	1.95E-02	7.53E-04	3.70E-05	5.25E-05	3.30E-04	2.35E-02

2.66E-03	1.88E-02	7.53E-04	3.76E-05	3.28E-04	3.28E-04	2.29E-02	2.66E-03	1.88E-02	7.53E-04	3.76E-05	5.41E-05	3.28E-04	2.26E-02
2.55E-03	1.81E-02	7.53E-04	3.83E-05	3.27E-04	3.27E-04	2.21E-02	2.55E-03	1.81E-02	7.53E-04	3.83E-05	5.59E-05	3.27E-04	2.18E-02
2.46E-03	1.75E-02	7.50E-04	3.90E-05	3.26E-04	3.26E-04	2.14E-02	2.46E-03	1.75E-02	7.50E-04	3.90E-05	5.78E-05	3.26E-04	2.11E-02
2.31E-03	1.64E-02	7.20E-04	3.89E-05	3.11E-04	3.11E-04	2.01E-02	2.31E-03	1.64E-02	7.20E-04	3.89E-05	5.89E-05	3.11E-04	1.98E-02
2.27E-03	1.62E-02	7.31E-04	4.01E-05	3.18E-04	3.18E-04	1.99E-02	2.27E-03	1.62E-02	7.31E-04	4.01E-05	6.14E-05	3.18E-04	1.96E-02
2.21E-03	1.59E-02	7.35E-04	4.10E-05	3.23E-04	3.23E-04	1.95E-02	2.21E-03	1.59E-02	7.35E-04	4.10E-05	6.38E-05	3.23E-04	1.93E-02
2.11E-03	1.51E-02	7.08E-04	4.11E-05	3.12E-04	3.12E-04	1.86E-02	2.11E-03	1.51E-02	7.08E-04	4.11E-05	6.52E-05	3.12E-04	1.83E-02
2.05E-03	1.48E-02	7.03E-04	4.18E-05	3.13E-04	3.13E-04	1.82E-02	2.05E-03	1.48E-02	7.03E-04	4.18E-05	6.72E-05	3.13E-04	1.79E-02
4.20E-03	2.80E-02	7.03E-04	3.31E-05	3.39E-04	3.39E-04	3.36E-02	4.20E-03	2.80E-02	7.03E-04	3.31E-05	4.50E-05	3.39E-04	3.33E-02
3.94E-03	2.65E-02	7.16E-04	3.36E-05	3.38E-04	3.38E-04	3.19E-02	3.94E-03	2.65E-02	7.16E-04	3.36E-05	4.57E-05	3.38E-04	3.16E-02
3.72E-03	2.53E-02	7.29E-04	3.42E-05	3.37E-04	3.37E-04	3.04E-02	3.72E-03	2.53E-02	7.29E-04	3.42E-05	4.66E-05	3.37E-04	3.01E-02
3.18E-03	2.21E-02	7.58E-04	3.63E-05	3.37E-04	3.37E-04	2.68E-02	3.18E-03	2.21E-02	7.58E-04	3.63E-05	5.02E-05	3.37E-04	2.65E-02
4.83E-03	3.14E-02	6.98E-04	3.31E-05	3.46E-04	3.46E-04	3.77E-02	4.83E-03	3.14E-02	6.98E-04	3.31E-05	4.50E-05	3.46E-04	3.74E-02
4.50E-03	2.96E-02	7.14E-04	3.37E-05	3.45E-04	3.45E-04	3.55E-02	4.50E-03	2.96E-02	7.14E-04	3.37E-05	4.56E-05	3.45E-04	3.52E-02
4.20E-03	2.80E-02	7.28E-04	3.42E-05	3.43E-04	3.43E-04	3.37E-02	4.20E-03	2.80E-02	7.28E-04	3.42E-05	4.63E-05	3.43E-04	3.34E-02
3.95E-03	2.66E-02	7.41E-04	3.48E-05	3.43E-04	3.43E-04	3.20E-02	3.95E-03	2.66E-02	7.41E-04	3.48E-05	4.72E-05	3.43E-04	3.17E-02
3.52E-03	2.42E-02	7.64E-04	3.62E-05	3.43E-04	3.43E-04	2.92E-02	3.52E-03	2.42E-02	7.64E-04	3.62E-05	4.95E-05	3.43E-04	2.89E-02
5.71E-03	3.59E-02	6.93E-04	3.33E-05	3.52E-04	3.52E-04	4.30E-02	5.71E-03	3.59E-02	6.93E-04	3.33E-05	4.52E-05	3.52E-04	4.27E-02
5.24E-03	3.35E-02	7.11E-04	3.38E-05	3.51E-04	3.51E-04	4.02E-02	5.24E-03	3.35E-02	7.11E-04	3.38E-05	4.57E-05	3.51E-04	3.99E-02
4.84E-03	3.15E-02	7.26E-04	3.43E-05	3.50E-04	3.50E-04	3.78E-02	4.84E-03	3.15E-02	7.26E-04	3.43E-05	4.63E-05	3.50E-04	3.75E-02
4.50E-03	2.97E-02	7.40E-04	3.49E-05	3.49E-04	3.49E-04	3.57E-02	4.50E-03	2.97E-02	7.40E-04	3.49E-05	4.70E-05	3.49E-04	3.54E-02
3.96E-03	2.67E-02	7.67E-04	3.63E-05	3.49E-04	3.49E-04	3.21E-02	3.96E-03	2.67E-02	7.67E-04	3.63E-05	4.90E-05	3.49E-04	3.18E-02
3.73E-03	2.54E-02	7.78E-04	3.70E-05	3.49E-04	3.49E-04	3.06E-02	3.73E-03	2.54E-02	7.78E-04	3.70E-05	5.03E-05	3.49E-04	3.03E-02
3.53E-03	2.42E-02	7.85E-04	3.76E-05	3.48E-04	3.48E-04	2.93E-02	3.53E-03	2.42E-02	7.85E-04	3.76E-05	5.16E-05	3.48E-04	2.90E-02
3.34E-03	2.31E-02	7.91E-04	3.83E-05	3.47E-04	3.47E-04	2.80E-02	3.34E-03	2.31E-02	7.91E-04	3.83E-05	5.30E-05	3.47E-04	2.77E-02
6.29E-03	3.88E-02	7.04E-04	3.39E-05	3.57E-04	3.57E-04	4.65E-02	6.29E-03	3.88E-02	7.04E-04	3.39E-05	4.59E-05	3.57E-04	4.62E-02
5.73E-03	3.60E-02	7.22E-04	3.44E-05	3.56E-04	3.56E-04	4.32E-02	5.73E-03	3.60E-02	7.22E-04	3.44E-05	4.63E-05	3.56E-04	4.29E-02
5.25E-03	3.36E-02	7.38E-04	3.49E-05	3.55E-04	3.55E-04	4.04E-02	5.25E-03	3.36E-02	7.38E-04	3.49E-05	4.69E-05	3.55E-04	4.01E-02
4.52E-03	2.98E-02	7.69E-04	3.63E-05	3.56E-04	3.56E-04	3.58E-02	4.52E-03	2.98E-02	7.69E-04	3.63E-05	4.87E-05	3.56E-04	3.55E-02
4.22E-03	2.82E-02	7.82E-04	3.70E-05	3.56E-04	3.56E-04	3.39E-02	4.22E-03	2.82E-02	7.82E-04	3.70E-05	4.98E-05	3.56E-04	3.36E-02
3.97E-03	2.68E-02	7.91E-04	3.76E-05	3.55E-04	3.55E-04	3.23E-02	3.97E-03	2.68E-02	7.91E-04	3.76E-05	5.10E-05	3.55E-04	3.20E-02
3.74E-03	2.55E-02	8.00E-04	3.83E-05	3.54E-04	3.54E-04	3.07E-02	3.74E-03	2.55E-02	8.00E-04	3.83E-05	5.23E-05	3.54E-04	3.04E-02
3.54E-03	2.43E-02	8.07E-04	3.91E-05	3.55E-04	3.55E-04	2.94E-02	3.54E-03	2.43E-02	8.07E-04	3.91E-05	5.39E-05	3.55E-04	2.91E-02
3.37E-03	2.33E-02	8.15E-04	4.00E-05	3.58E-04	3.58E-04	2.83E-02	3.37E-03	2.33E-02	8.15E-04	4.00E-05	5.57E-05	3.58E-04	2.79E-02
3.21E-03	2.23E-02	8.22E-04	4.10E-05	3.61E-04	3.61E-04	2.71E-02	3.21E-03	2.23E-02	8.22E-04	4.10E-05	5.76E-05	3.61E-04	2.68E-02
3.06E-03	2.15E-02	8.20E-04	4.16E-05	3.58E-04	3.58E-04	2.61E-02	3.06E-03	2.15E-02	8.20E-04	4.16E-05	5.94E-05	3.58E-04	2.58E-02
2.92E-03	2.06E-02	8.17E-04	4.22E-05	3.56E-04	3.56E-04	2.51E-02	2.92E-03	2.06E-02	8.17E-04	4.22E-05	6.13E-05	3.56E-04	2.48E-02
1.06E-02	5.87E-02	6.55E-04	3.30E-05	3.64E-04	3.64E-04	7.07E-02	1.06E-02	5.87E-02	6.55E-04	3.30E-05	4.58E-05	3.64E-04	7.04E-02
9.06E-03	5.17E-02	6.77E-04	3.36E-05	3.64E-04	3.64E-04	6.22E-02	9.06E-03	5.17E-02	6.77E-04	3.36E-05	4.60E-05	3.64E-04	6.19E-02
5.27E-03	3.37E-02	7.68E-04	3.63E-05	3.62E-04	3.62E-04	4.05E-02	5.27E-03	3.37E-02	7.68E-04	3.63E-05	4.86E-05	3.62E-04	4.02E-02
4.87E-03	3.16E-02	7.83E-04	3.70E-05	3.63E-04	3.63E-04	3.80E-02	4.87E-03	3.16E-02	7.83E-04	3.70E-05	4.95E-05	3.63E-04	3.77E-02
4.53E-03	2.99E-02	7.95E-04	3.77E-05	3.62E-04	3.62E-04	3.59E-02	4.53E-03	2.99E-02	7.95E-04	3.77E-05	5.06E-05	3.62E-04	3.56E-02
4.23E-03	2.83E-02	8.06E-04	3.84E-05	3.62E-04	3.62E-04	3.41E-02	4.23E-03	2.83E-02	8.06E-04	3.84E-05	5.18E-05	3.62E-04	3.38E-02
3.98E-03	2.68E-02	8.16E-04	3.92E-05	3.63E-04	3.63E-04	3.24E-02	3.98E-03	2.68E-02	8.16E-04	3.92E-05	5.32E-05	3.63E-04	3.21E-02
3.75E-03	2.55E-02	8.25E-04	4.00E-05	3.65E-04	3.65E-04	3.09E-02	3.75E-03	2.55E-02	8.25E-04	4.00E-05	5.49E-05	3.65E-04	3.06E-02
3.55E-03	2.44E-02	8.32E-04	4.09E-05	3.66E-04	3.66E-04	2.95E-02	3.55E-03	2.44E-02	8.32E-04	4.09E-05	5.67E-05	3.66E-04	2.92E-02
3.37E-03	2.34E-02	8.33E-04	4.15E-05	3.64E-04	3.64E-04	2.84E-02	3.37E-03	2.34E-02	8.33E-04	4.15E-05	5.83E-05	3.64E-04	2.80E-02
3.21E-03	2.24E-02	8.33E-04	4.22E-05	3.63E-04	3.63E-04	2.72E-02	3.21E-03	2.24E-02	8.33E-04	4.22E-05	6.01E-05	3.63E-04	2.69E-02
1.62E-02	8.18E-02	6.45E-04	3.33E-05	3.69E-04	3.69E-04	9.94E-02	1.62E-02	8.18E-02	6.45E-04	3.33E-05	4.65E-05	3.69E-04	9.91E-02
1.29E-02	6.81E-02	6.67E-04	3.38E-05	3.70E-04	3.70E-04	8.24E-02	1.29E-02	6.81E-02	6.67E-04	3.38E-05	4.66E-05	3.70E-04	8.21E-02
6.34E-03	3.91E-02	7.65E-04	3.64E-05	3.68E-04	3.68E-04	4.70E-02	6.34E-03	3.91E-02	7.65E-04	3.64E-05	4.86E-05	3.68E-04	4.67E-02
5.76E-03	3.62E-02	7.82E-04	3.71E-05	3.69E-04	3.69E-04	4.35E-02	5.76E-03	3.62E-02	7.82E-04	3.71E-05	4.95E-05	3.69E-04	4.32E-02
5.28E-03	3.38E-02	7.97E-04	3.77E-05	3.69E-04	3.69E-04	4.07E-02	5.28E-03	3.38E-02	7.97E-04	3.77E-05	5.04E-05	3.69E-04	4.03E-02
4.88E-03	3.17E-02	8.10E-04	3.84E-05	3.69E-04	3.69E-04	3.82E-02	4.88E-03	3.17E-02	8.10E-04	3.84E-05	5.15E-05	3.69E-04	3.79E-02

4.54E-03	2.99E-02	8.22E-04	3.92E-05	3.70E-04	3.70E-04	3.60E-02	4.54E-03	2.99E-02	8.22E-04	3.92E-05	5.27E-05	3.70E-04	3.57E-02
4.24E-03	2.83E-02	8.32E-04	4.00E-05	3.71E-04	3.71E-04	3.41E-02	4.24E-03	2.83E-02	8.32E-04	4.00E-05	5.42E-05	3.71E-04	3.38E-02
3.99E-03	2.69E-02	8.40E-04	4.08E-05	3.72E-04	3.72E-04	3.25E-02	3.99E-03	2.69E-02	8.40E-04	4.08E-05	5.58E-05	3.72E-04	3.21E-02
3.76E-03	2.56E-02	8.43E-04	4.14E-05	3.70E-04	3.70E-04	3.10E-02	3.76E-03	2.56E-02	8.43E-04	4.14E-05	5.73E-05	3.70E-04	3.07E-02
3.56E-03	2.45E-02	8.44E-04	4.21E-05	3.67E-04	3.67E-04	2.97E-02	3.56E-03	2.45E-02	8.44E-04	4.21E-05	5.89E-05	3.67E-04	2.94E-02
5.95E-03	3.71E-02	7.90E-04	3.74E-05	3.73E-04	3.73E-04	4.46E-02	5.95E-03	3.71E-02	7.90E-04	3.74E-05	4.99E-05	3.73E-04	4.43E-02
5.44E-03	3.46E-02	8.05E-04	3.81E-05	3.73E-04	3.73E-04	4.16E-02	5.44E-03	3.46E-02	8.05E-04	3.81E-05	5.09E-05	3.73E-04	4.13E-02
5.02E-03	3.24E-02	8.17E-04	3.88E-05	3.73E-04	3.73E-04	3.90E-02	5.02E-03	3.24E-02	8.17E-04	3.88E-05	5.20E-05	3.73E-04	3.87E-02
4.65E-03	3.05E-02	8.30E-04	3.96E-05	3.74E-04	3.74E-04	3.67E-02	4.65E-03	3.05E-02	8.30E-04	3.96E-05	5.33E-05	3.74E-04	3.64E-02
4.34E-03	2.88E-02	8.39E-04	4.04E-05	3.74E-04	3.74E-04	3.48E-02	4.34E-03	2.88E-02	8.39E-04	4.04E-05	5.47E-05	3.74E-04	3.45E-02
4.08E-03	2.74E-02	8.45E-04	4.11E-05	3.73E-04	3.73E-04	3.31E-02	4.08E-03	2.74E-02	8.45E-04	4.11E-05	5.62E-05	3.73E-04	3.28E-02
3.84E-03	2.61E-02	8.48E-04	4.17E-05	3.71E-04	3.71E-04	3.16E-02	3.84E-03	2.61E-02	8.48E-04	4.17E-05	5.77E-05	3.71E-04	3.13E-02
5.97E-03	3.72E-02	8.19E-04	3.89E-05	3.80E-04	3.80E-04	4.48E-02	5.97E-03	3.72E-02	8.19E-04	3.89E-05	5.18E-05	3.80E-04	4.44E-02
5.46E-03	3.46E-02	8.33E-04	3.96E-05	3.82E-04	3.82E-04	4.17E-02	5.46E-03	3.46E-02	8.33E-04	3.96E-05	5.39E-05	3.82E-04	4.14E-02
5.04E-03	3.25E-02	8.43E-04	4.03E-05	3.80E-04	3.80E-04	3.92E-02	5.04E-03	3.25E-02	8.43E-04	4.03E-05	5.41E-05	3.80E-04	3.89E-02
4.68E-03	3.07E-02	8.51E-04	4.10E-05	3.78E-04	3.78E-04	3.70E-02	4.68E-03	3.07E-02	8.51E-04	4.10E-05	5.54E-05	3.78E-04	3.67E-02
4.36E-03	2.91E-02	8.57E-04	4.16E-05	3.76E-04	3.76E-04	3.51E-02	4.36E-03	2.91E-02	8.57E-04	4.16E-05	5.68E-05	3.76E-04	3.48E-02
6.63E-03	4.04E-02	8.33E-04	3.95E-05	3.88E-04	3.88E-04	4.87E-02	6.63E-03	4.04E-02	8.33E-04	3.95E-05	5.35E-05	3.88E-04	4.83E-02
6.01E-03	3.75E-02	8.46E-04	4.02E-05	3.87E-04	3.87E-04	4.51E-02	6.01E-03	3.75E-02	8.46E-04	4.02E-05	5.45E-05	3.87E-04	4.48E-02
5.50E-03	3.50E-02	8.56E-04	4.09E-05	3.85E-04	3.85E-04	4.22E-02	5.50E-03	3.50E-02	8.56E-04	4.09E-05	5.57E-05	3.85E-04	4.19E-02
5.07E-03	3.29E-02	8.64E-04	4.15E-05	3.82E-04	3.82E-04	3.96E-02	5.07E-03	3.29E-02	8.64E-04	4.15E-05	5.61E-05	3.82E-04	3.93E-02
4.69E-03	3.10E-02	8.69E-04	4.22E-05	3.80E-04	3.80E-04	3.73E-02	4.69E-03	3.10E-02	8.69E-04	4.22E-05	5.75E-05	3.80E-04	3.70E-02
4.37E-03	2.92E-02	8.71E-04	4.29E-05	3.76E-04	3.76E-04	3.53E-02	4.37E-03	2.92E-02	8.71E-04	4.29E-05	5.90E-05	3.76E-04	3.50E-02
4.07E-03	2.76E-02	8.69E-04	4.34E-05	3.72E-04	3.72E-04	3.33E-02	4.07E-03	2.76E-02	8.69E-04	4.34E-05	6.07E-05	3.72E-04	3.30E-02
6.70E-03	4.11E-02	8.58E-04	4.08E-05	3.91E-04	3.91E-04	4.95E-02	6.70E-03	4.11E-02	8.58E-04	4.08E-05	5.52E-05	3.91E-04	4.91E-02
6.06E-03	3.81E-02	8.67E-04	4.14E-05	3.87E-04	3.87E-04	4.59E-02	6.06E-03	3.81E-02	8.67E-04	4.14E-05	5.54E-05	3.87E-04	4.55E-02
5.52E-03	3.55E-02	8.74E-04	4.20E-05	3.83E-04	3.83E-04	4.27E-02	5.52E-03	3.55E-02	8.74E-04	4.20E-05	5.66E-05	3.83E-04	4.24E-02
5.06E-03	3.31E-02	8.79E-04	4.27E-05	3.80E-04	3.80E-04	3.99E-02	5.06E-03	3.31E-02	8.79E-04	4.27E-05	5.79E-05	3.80E-04	3.95E-02
4.66E-03	3.09E-02	8.79E-04	4.33E-05	3.76E-04	3.76E-04	3.73E-02	4.66E-03	3.09E-02	8.79E-04	4.33E-05	5.95E-05	3.76E-04	3.70E-02
8.19E-03	4.93E-02	1.05E-03	5.72E-05	4.50E-04	4.50E-04	5.95E-02	8.19E-03	4.93E-02	1.05E-03	5.72E-05	8.24E-05	4.50E-04	5.91E-02
7.23E-03	4.49E-02	1.04E-03	5.79E-05	4.49E-04	4.49E-04	5.41E-02	7.23E-03	4.49E-02	1.04E-03	5.79E-05	8.48E-05	4.49E-04	5.37E-02
6.46E-03	4.12E-02	1.03E-03	5.87E-05	4.48E-04	4.48E-04	4.96E-02	6.46E-03	4.12E-02	1.03E-03	5.87E-05	8.72E-05	4.48E-04	4.93E-02
5.82E-03	3.79E-02	1.02E-03	5.93E-05	4.45E-04	4.45E-04	4.57E-02	5.82E-03	3.79E-02	1.02E-03	5.93E-05	8.93E-05	4.45E-04	4.54E-02
1.12E-02	6.35E-02	1.07E-03	5.72E-05	4.57E-04	4.57E-04	7.68E-02	1.12E-02	6.35E-02	1.07E-03	5.72E-05	8.12E-05	4.57E-04	7.64E-02
9.51E-03	5.61E-02	1.07E-03	5.81E-05	4.56E-04	4.56E-04	6.77E-02	9.51E-03	5.61E-02	1.07E-03	5.81E-05	8.36E-05	4.56E-04	6.73E-02
8.22E-03	5.03E-02	1.06E-03	5.89E-05	4.54E-04	4.54E-04	6.05E-02	8.22E-03	5.03E-02	1.06E-03	5.89E-05	8.61E-05	4.54E-04	6.01E-02
7.23E-03	4.54E-02	1.05E-03	5.97E-05	4.54E-04	4.54E-04	5.46E-02	7.23E-03	4.54E-02	1.05E-03	5.97E-05	8.84E-05	4.54E-04	5.43E-02
6.52E-03	4.20E-02	1.05E-03	6.20E-05	4.61E-04	4.61E-04	5.06E-02	6.52E-03	4.20E-02	1.05E-03	6.20E-05	9.41E-05	4.61E-04	5.02E-02
5.88E-03	3.86E-02	1.04E-03	6.25E-05	4.61E-04	4.61E-04	4.65E-02	5.88E-03	3.86E-02	1.04E-03	6.25E-05	9.62E-05	4.61E-04	4.62E-02
8.39E-03	5.17E-02	1.08E-03	6.24E-05	4.70E-04	4.70E-04	6.22E-02	8.39E-03	5.17E-02	1.08E-03	6.24E-05	9.33E-05	4.70E-04	6.18E-02
7.35E-03	4.65E-02	1.07E-03	6.31E-05	4.70E-04	4.70E-04	5.59E-02	7.35E-03	4.65E-02	1.07E-03	6.31E-05	9.56E-05	4.70E-04	5.56E-02
6.55E-03	4.24E-02	1.06E-03	6.37E-05	4.71E-04	4.71E-04	5.10E-02	6.55E-03	4.24E-02	1.06E-03	6.37E-05	9.77E-05	4.71E-04	5.06E-02
1.17E-02	6.83E-02	1.11E-03	6.27E-05	4.78E-04	4.78E-04	8.22E-02	1.17E-02	6.83E-02	1.11E-03	6.27E-05	9.23E-05	4.78E-04	8.18E-02
9.81E-03	5.91E-02	1.10E-03	6.35E-05	4.79E-04	4.79E-04	7.10E-02	9.81E-03	5.91E-02	1.10E-03	6.35E-05	9.48E-05	4.79E-04	7.06E-02
8.44E-03	5.22E-02	1.09E-03	6.42E-05	4.80E-04	4.80E-04	6.28E-02	8.44E-03	5.22E-02	1.09E-03	6.42E-05	9.71E-05	4.80E-04	6.24E-02
3.01E-04	2.69E-04	1.39E-04	8.86E-06	8.86E-05	8.86E-05	8.95E-04	3.01E-04	2.69E-04	1.39E-04	8.86E-06	1.53E-05	8.86E-05	8.21E-04
3.00E-04	2.60E-04	1.31E-04	8.49E-06	8.56E-05	8.56E-05	8.70E-04	3.00E-04	2.60E-04	1.31E-04	8.49E-06	1.46E-05	8.56E-05	7.99E-04
3.45E-04	3.37E-04	1.36E-04	9.25E-06	9.32E-05	9.32E-05	1.01E-03	3.45E-04	3.37E-04	1.36E-04	9.25E-06	1.57E-05	9.32E-05	9.36E-04
3.33E-04	2.54E-04	1.14E-04	7.79E-06	8.59E-05	8.59E-05	8.81E-04	3.33E-04	2.54E-04	1.14E-04	7.79E-06	1.35E-05	8.59E-05	8.08E-04
3.42E-04	2.67E-04	1.21E-04	7.61E-06	9.26E-05	9.26E-05	9.23E-04	3.42E-04	2.67E-04	1.21E-04	7.61E-06	1.27E-05	9.26E-05	8.43E-04
3.48E-04	2.79E-04	1.32E-04	7.98E-06	1.01E-04	1.01E-04	9.68E-04	3.48E-04	2.79E-04	1.32E-04	7.98E-06	1.35E-05	1.01E-04	8.81E-04
3.69E-04	3.25E-04	1.70E-04	9.45E-06	1.13E-04	1.13E-04	1.10E-03	3.69E-04	3.25E-04	1.70E-04	9.45E-06	1.54E-05	1.13E-04	1.00E-03
3.80E-04	3.78E-04	2.15E-04	1.20E-05	1.22E-04	1.22E-04	1.23E-03	3.80E-04	3.78E-04	2.15E-04	1.20E-05	1.87E-05	1.22E-04	1.13E-03
3.83E-04	4.37E-04	2.37E-04	1.51E-05	1.32E-04	1.32E-04	1.34E-03	3.83E-04	4.37E-04	2.37E-04	1.51E-05	2.62E-05	1.32E-04	1.23E-03

3.73E-04	4.51E-04	2.31E-04	1.58E-05	1.29E-04	1.29E-04	1.33E-03	3.73E-04	4.51E-04	2.31E-04	1.58E-05	2.72E-05	1.29E-04	1.23E-03
3.55E-04	4.22E-04	1.99E-04	1.46E-05	1.18E-04	1.18E-04	1.23E-03	3.55E-04	4.22E-04	1.99E-04	1.46E-05	2.52E-05	1.18E-04	1.13E-03
3.35E-04	3.94E-04	1.73E-04	1.32E-05	1.09E-04	1.09E-04	1.13E-03	3.35E-04	3.94E-04	1.73E-04	1.32E-05	2.39E-05	1.09E-04	1.05E-03
3.18E-04	3.93E-04	1.55E-04	1.11E-05	1.01E-04	1.01E-04	1.08E-03	3.18E-04	3.93E-04	1.55E-04	1.11E-05	1.76E-05	1.01E-04	9.95E-04
2.98E-04	3.73E-04	1.40E-04	9.60E-06	9.45E-05	9.45E-05	1.01E-03	2.98E-04	3.73E-04	1.40E-04	9.60E-06	1.52E-05	9.45E-05	9.30E-04
2.86E-04	3.81E-04	1.32E-04	9.25E-06	9.30E-05	9.30E-05	9.94E-04	2.86E-04	3.81E-04	1.32E-04	9.25E-06	1.63E-05	9.30E-05	9.18E-04
2.76E-04	3.88E-04	1.26E-04	8.87E-06	8.59E-05	8.59E-05	9.71E-04	2.76E-04	3.88E-04	1.26E-04	8.87E-06	1.42E-05	8.59E-05	8.99E-04
2.70E-04	4.14E-04	1.24E-04	8.54E-06	8.40E-05	8.40E-05	9.84E-04	2.70E-04	4.14E-04	1.24E-04	8.54E-06	1.36E-05	8.40E-05	9.14E-04
2.60E-04	4.16E-04	1.16E-04	8.26E-06	8.30E-05	8.30E-05	9.66E-04	2.60E-04	4.16E-04	1.16E-04	8.26E-06	1.37E-05	8.30E-05	8.97E-04
2.43E-04	3.86E-04	1.02E-04	6.97E-06	7.83E-05	7.83E-05	8.95E-04	2.43E-04	3.86E-04	1.02E-04	6.97E-06	1.21E-05	7.83E-05	8.29E-04
2.32E-04	3.80E-04	9.53E-05	6.30E-06	7.30E-05	7.30E-05	8.59E-04	2.32E-04	3.80E-04	9.53E-05	6.30E-06	1.05E-05	7.30E-05	7.96E-04
2.22E-04	3.76E-04	8.91E-05	5.81E-06	6.97E-05	6.97E-05	8.33E-04	2.22E-04	3.76E-04	8.91E-05	5.81E-06	9.23E-06	6.97E-05	7.72E-04
2.12E-04	3.61E-04	8.36E-05	5.21E-06	6.75E-05	6.75E-05	7.96E-04	2.12E-04	3.61E-04	8.36E-05	5.21E-06	8.60E-06	6.75E-05	7.37E-04
2.01E-04	3.39E-04	7.64E-05	4.68E-06	6.57E-05	6.57E-05	7.53E-04	2.01E-04	3.39E-04	7.64E-05	4.68E-06	8.23E-06	6.57E-05	6.96E-04
1.79E-04	2.74E-04	6.53E-05	3.80E-06	6.05E-05	6.05E-05	6.44E-04	1.79E-04	2.74E-04	6.53E-05	3.80E-06	6.70E-06	6.05E-05	5.90E-04
1.68E-04	2.48E-04	5.97E-05	3.48E-06	5.80E-05	5.80E-05	5.96E-04	1.68E-04	2.48E-04	5.97E-05	3.48E-06	6.15E-06	5.80E-05	5.44E-04
1.82E-04	3.15E-04	6.59E-05	3.96E-06	6.31E-05	6.31E-05	6.93E-04	1.82E-04	3.15E-04	6.59E-05	3.96E-06	7.03E-06	6.31E-05	6.36E-04
1.80E-04	3.20E-04	6.50E-05	3.88E-06	6.33E-05	6.33E-05	6.96E-04	1.80E-04	3.20E-04	6.50E-05	3.88E-06	6.87E-06	6.33E-05	6.39E-04
1.76E-04	3.14E-04	6.17E-05	3.69E-06	6.16E-05	6.16E-05	6.79E-04	1.76E-04	3.14E-04	6.17E-05	3.69E-06	6.69E-06	6.16E-05	6.24E-04
1.70E-04	3.01E-04	5.85E-05	3.48E-06	5.85E-05	5.85E-05	6.50E-04	1.70E-04	3.01E-04	5.85E-05	3.48E-06	6.33E-06	5.85E-05	5.97E-04
1.69E-04	3.11E-04	5.79E-05	3.41E-06	5.61E-05	5.61E-05	6.54E-04	1.69E-04	3.11E-04	5.79E-05	3.41E-06	6.01E-06	5.61E-05	6.03E-04
1.67E-04	3.07E-04	5.61E-05	3.25E-06	5.47E-05	5.47E-05	6.43E-04	1.67E-04	3.07E-04	5.61E-05	3.25E-06	5.82E-06	5.47E-05	5.94E-04
1.60E-04	2.87E-04	5.27E-05	3.01E-06	5.17E-05	5.17E-05	6.06E-04	1.60E-04	2.87E-04	5.27E-05	3.01E-06	5.33E-06	5.17E-05	5.60E-04
1.58E-04	2.84E-04	5.16E-05	2.94E-06	4.96E-05	4.96E-05	5.95E-04	1.58E-04	2.84E-04	5.16E-05	2.94E-06	5.20E-06	4.96E-05	5.51E-04
1.52E-04	2.65E-04	4.92E-05	2.75E-06	4.77E-05	4.77E-05	5.65E-04	1.52E-04	2.65E-04	4.92E-05	2.75E-06	4.98E-06	4.77E-05	5.22E-04
1.49E-04	2.57E-04	4.84E-05	2.65E-06	4.74E-05	4.74E-05	5.52E-04	1.49E-04	2.57E-04	4.84E-05	2.65E-06	4.90E-06	4.74E-05	5.10E-04
1.56E-04	2.97E-04	5.19E-05	2.92E-06	5.21E-05	5.21E-05	6.13E-04	1.56E-04	2.97E-04	5.19E-05	2.92E-06	5.32E-06	5.21E-05	5.66E-04
1.55E-04	2.96E-04	5.25E-05	2.91E-06	5.21E-05	5.21E-05	6.10E-04	1.55E-04	2.96E-04	5.25E-05	2.91E-06	5.33E-06	5.21E-05	5.63E-04
1.49E-04	2.76E-04	5.20E-05	2.79E-06	5.20E-05	5.20E-05	5.84E-04	1.49E-04	2.76E-04	5.20E-05	2.79E-06	5.25E-06	5.20E-05	5.37E-04
1.42E-04	2.48E-04	5.08E-05	2.65E-06	4.98E-05	4.98E-05	5.43E-04	1.42E-04	2.48E-04	5.08E-05	2.65E-06	4.97E-06	4.98E-05	4.98E-04
1.29E-04	1.99E-04	4.78E-05	2.39E-06	4.66E-05	4.66E-05	4.71E-04	1.29E-04	1.99E-04	4.78E-05	2.39E-06	4.61E-06	4.66E-05	4.29E-04
1.35E-04	2.24E-04	5.14E-05	2.62E-06	4.92E-05	4.92E-05	5.11E-04	1.35E-04	2.24E-04	5.14E-05	2.62E-06	4.88E-06	4.92E-05	4.67E-04
1.37E-04	2.39E-04	5.43E-05	2.81E-06	5.16E-05	5.16E-05	5.36E-04	1.37E-04	2.39E-04	5.43E-05	2.81E-06	5.19E-06	5.16E-05	4.90E-04
1.28E-04	2.03E-04	5.22E-05	2.66E-06	5.04E-05	5.04E-05	4.86E-04	1.28E-04	2.03E-04	5.22E-05	2.66E-06	5.18E-06	5.04E-05	4.41E-04
1.37E-04	2.47E-04	5.89E-05	3.04E-06	5.56E-05	5.56E-05	5.57E-04	1.37E-04	2.47E-04	5.89E-05	3.04E-06	5.89E-06	5.56E-05	5.07E-04
1.39E-04	2.61E-04	6.29E-05	3.29E-06	5.75E-05	5.75E-05	5.81E-04	1.39E-04	2.61E-04	6.29E-05	3.29E-06	6.24E-06	5.75E-05	5.30E-04
1.41E-04	2.75E-04	6.72E-05	3.58E-06	5.91E-05	5.91E-05	6.05E-04	1.41E-04	2.75E-04	6.72E-05	3.58E-06	6.67E-06	5.91E-05	5.52E-04
1.42E-04	2.83E-04	7.16E-05	3.82E-06	6.04E-05	6.04E-05	6.21E-04	1.42E-04	2.83E-04	7.16E-05	3.82E-06	7.18E-06	6.04E-05	5.68E-04
1.42E-04	2.85E-04	7.55E-05	4.04E-06	6.16E-05	6.16E-05	6.30E-04	1.42E-04	2.85E-04	7.55E-05	4.04E-06	7.44E-06	6.16E-05	5.76E-04
1.43E-04	2.93E-04	8.06E-05	4.34E-06	6.49E-05	6.49E-05	6.51E-04	1.43E-04	2.93E-04	8.06E-05	4.34E-06	7.92E-06	6.49E-05	5.94E-04
1.43E-04	3.02E-04	8.69E-05	4.66E-06	6.78E-05	6.78E-05	6.72E-04	1.43E-04	3.02E-04	8.69E-05	4.66E-06	8.36E-06	6.78E-05	6.13E-04
1.44E-04	3.09E-04	9.33E-05	5.01E-06	7.10E-05	7.10E-05	6.93E-04	1.44E-04	3.09E-04	9.33E-05	5.01E-06	8.71E-06	7.10E-05	6.31E-04
1.44E-04	3.09E-04	9.82E-05	5.29E-06	7.46E-05	7.46E-05	7.05E-04	1.44E-04	3.09E-04	9.82E-05	5.29E-06	8.98E-06	7.46E-05	6.39E-04
1.43E-04	3.08E-04	1.04E-04	5.55E-06	7.85E-05	7.85E-05	7.18E-04	1.43E-04	3.08E-04	1.04E-04	5.55E-06	9.44E-06	7.85E-05	6.49E-04
1.43E-04	3.10E-04	1.09E-04	5.89E-06	8.30E-05	8.30E-05	7.33E-04	1.43E-04	3.10E-04	1.09E-04	5.89E-06	1.00E-05	8.30E-05	6.60E-04
1.42E-04	3.07E-04	1.15E-04	6.22E-06	8.77E-05	8.77E-05	7.46E-04	1.42E-04	3.07E-04	1.15E-04	6.22E-06	1.06E-05	8.77E-05	6.69E-04
5.52E-03	6.77E-04	2.24E-04	1.33E-05	1.34E-04	1.34E-04	6.70E-03	5.52E-03	6.77E-04	2.24E-04	1.33E-05	2.15E-05	1.34E-04	6.59E-03
4.66E-03	6.07E-04	2.01E-04	1.24E-05	1.18E-04	1.18E-04	5.72E-03	4.66E-03	6.07E-04	2.01E-04	1.24E-05	2.05E-05	1.18E-04	5.62E-03
1.42E-03	3.19E-04	1.42E-04	9.21E-06	9.08E-05	9.08E-05	2.07E-03	1.42E-03	3.19E-04	1.42E-04	9.21E-06	1.59E-05	9.08E-05	2.00E-03
9.85E-04	3.58E-04	1.39E-04	9.33E-06	9.31E-05	9.31E-05	1.68E-03	9.85E-04	3.58E-04	1.39E-04	9.33E-06	1.59E-05	9.31E-05	1.60E-03
7.76E-04	3.58E-04	1.33E-04	9.20E-06	9.72E-05	9.72E-05	1.47E-03	7.76E-04	3.58E-04	1.33E-04	9.20E-06	1.58E-05	9.72E-05	1.39E-03
6.96E-04	4.12E-04	1.45E-04	9.27E-06	1.09E-04	1.09E-04	1.48E-03	6.96E-04	4.12E-04	1.45E-04	9.27E-06	1.54E-05	1.09E-04	1.39E-03
6.30E-04	4.34E-04	1.62E-04	9.66E-06	1.20E-04	1.20E-04	1.48E-03	6.30E-04	4.34E-04	1.62E-04	9.66E-06	1.59E-05	1.20E-04	1.37E-03
5.92E-04	4.93E-04	2.07E-04	1.12E-05	1.32E-04	1.32E-04	1.57E-03	5.92E-04	4.93E-04	2.07E-04	1.12E-05	1.81E-05	1.32E-04	1.45E-03

5.50E-04	5.63E-04	2.54E-04	1.39E-05	1.38E-04	1.38E-04	1.66E-03	5.50E-04	5.63E-04	2.54E-04	1.39E-05	2.15E-05	1.38E-04	1.54E-03
5.17E-04	6.50E-04	2.74E-04	1.73E-05	1.48E-04	1.48E-04	1.75E-03	5.17E-04	6.50E-04	2.74E-04	1.73E-05	2.98E-05	1.48E-04	1.64E-03
4.75E-04	6.39E-04	2.51E-04	1.73E-05	1.39E-04	1.39E-04	1.66E-03	4.75E-04	6.39E-04	2.51E-04	1.73E-05	2.99E-05	1.39E-04	1.55E-03
4.40E-04	6.32E-04	2.15E-04	1.60E-05	1.25E-04	1.25E-04	1.55E-03	4.40E-04	6.32E-04	2.15E-04	1.60E-05	2.79E-05	1.25E-04	1.46E-03
4.10E-04	6.36E-04	1.90E-04	1.44E-05	1.18E-04	1.18E-04	1.49E-03	4.10E-04	6.36E-04	1.90E-04	1.44E-05	2.59E-05	1.18E-04	1.39E-03
3.78E-04	6.15E-04	1.65E-04	1.18E-05	1.07E-04	1.07E-04	1.38E-03	3.78E-04	6.15E-04	1.65E-04	1.18E-05	1.82E-05	1.07E-04	1.29E-03
3.54E-04	6.07E-04	1.53E-04	1.06E-05	1.03E-04	1.03E-04	1.33E-03	3.54E-04	6.07E-04	1.53E-04	1.06E-05	1.73E-05	1.03E-04	1.25E-03
3.40E-04	6.35E-04	1.53E-04	1.06E-05	1.01E-04	1.01E-04	1.34E-03	3.40E-04	6.35E-04	1.53E-04	1.06E-05	1.82E-05	1.01E-04	1.26E-03
3.25E-04	6.42E-04	1.45E-04	1.02E-05	9.40E-05	9.40E-05	1.31E-03	3.25E-04	6.42E-04	1.45E-04	1.02E-05	1.60E-05	9.40E-05	1.23E-03
3.08E-04	6.24E-04	1.31E-04	9.23E-06	8.92E-05	8.92E-05	1.25E-03	3.08E-04	6.24E-04	1.31E-04	9.23E-06	1.48E-05	8.92E-05	1.18E-03
2.98E-04	6.32E-04	1.26E-04	9.04E-06	9.09E-05	9.09E-05	1.25E-03	2.98E-04	6.32E-04	1.26E-04	9.04E-06	1.54E-05	9.09E-05	1.17E-03
2.74E-04	5.69E-04	1.10E-04	7.41E-06	8.19E-05	8.19E-05	1.12E-03	2.74E-04	5.69E-04	1.10E-04	7.41E-06	1.26E-05	8.19E-05	1.06E-03
2.63E-04	5.64E-04	1.03E-04	6.98E-06	7.76E-05	7.76E-05	1.09E-03	2.63E-04	5.64E-04	1.03E-04	6.98E-06	1.12E-05	7.76E-05	1.03E-03
2.49E-04	5.31E-04	9.60E-05	6.20E-06	7.40E-05	7.40E-05	1.03E-03	2.49E-04	5.31E-04	9.60E-05	6.20E-06	9.72E-06	7.40E-05	9.66E-04
2.33E-04	4.84E-04	8.61E-05	5.34E-06	7.07E-05	7.07E-05	9.50E-04	2.33E-04	4.84E-04	8.61E-05	5.34E-06	9.17E-06	7.07E-05	8.89E-04
2.13E-04	4.14E-04	7.49E-05	4.52E-06	6.63E-05	6.63E-05	8.39E-04	2.13E-04	4.14E-04	7.49E-05	4.52E-06	7.82E-06	6.63E-05	7.80E-04
2.14E-04	4.40E-04	7.61E-05	4.75E-06	6.76E-05	6.76E-05	8.70E-04	2.14E-04	4.40E-04	7.61E-05	4.75E-06	8.05E-06	6.76E-05	8.10E-04
2.08E-04	4.36E-04	7.40E-05	4.54E-06	6.80E-05	6.80E-05	8.59E-04	2.08E-04	4.36E-04	7.40E-05	4.54E-06	7.90E-06	6.80E-05	7.99E-04
1.97E-04	4.00E-04	6.82E-05	4.06E-06	6.61E-05	6.61E-05	8.01E-04	1.97E-04	4.00E-04	6.82E-05	4.06E-06	7.23E-06	6.61E-05	7.42E-04
2.02E-04	4.43E-04	7.08E-05	4.34E-06	6.80E-05	6.80E-05	8.56E-04	2.02E-04	4.43E-04	7.08E-05	4.34E-06	7.70E-06	6.80E-05	7.96E-04
1.99E-04	4.43E-04	6.91E-05	4.25E-06	6.62E-05	6.62E-05	8.48E-04	1.99E-04	4.43E-04	6.91E-05	4.25E-06	7.52E-06	6.62E-05	7.89E-04
1.91E-04	4.13E-04	6.46E-05	3.85E-06	6.10E-05	6.10E-05	7.94E-04	1.91E-04	4.13E-04	6.46E-05	3.85E-06	6.72E-06	6.10E-05	7.40E-04
1.77E-04	3.48E-04	5.73E-05	3.25E-06	5.59E-05	5.59E-05	6.97E-04	1.77E-04	3.48E-04	5.73E-05	3.25E-06	5.79E-06	5.59E-05	6.47E-04
1.71E-04	3.31E-04	5.45E-05	3.11E-06	5.37E-05	5.37E-05	6.67E-04	1.71E-04	3.31E-04	5.45E-05	3.11E-06	5.52E-06	5.37E-05	6.19E-04
1.72E-04	3.42E-04	5.48E-05	3.14E-06	5.25E-05	5.25E-05	6.77E-04	1.72E-04	3.42E-04	5.48E-05	3.14E-06	5.56E-06	5.25E-05	6.30E-04
1.77E-04	3.82E-04	5.82E-05	3.36E-06	5.43E-05	5.43E-05	7.29E-04	1.77E-04	3.82E-04	5.82E-05	3.36E-06	5.95E-06	5.43E-05	6.81E-04
1.74E-04	3.73E-04	5.71E-05	3.25E-06	5.51E-05	5.51E-05	7.17E-04	1.74E-04	3.73E-04	5.71E-05	3.25E-06	5.92E-06	5.51E-05	6.68E-04
1.71E-04	3.68E-04	5.77E-05	3.26E-06	5.60E-05	5.60E-05	7.12E-04	1.71E-04	3.68E-04	5.77E-05	3.26E-06	5.77E-06	5.60E-05	6.62E-04
1.68E-04	3.61E-04	5.83E-05	3.20E-06	5.68E-05	5.68E-05	7.05E-04	1.68E-04	3.61E-04	5.83E-05	3.20E-06	5.83E-06	5.68E-05	6.54E-04
1.63E-04	3.37E-04	5.76E-05	3.08E-06	5.63E-05	5.63E-05	6.73E-04	1.63E-04	3.37E-04	5.76E-05	3.08E-06	5.74E-06	5.63E-05	6.22E-04
1.49E-04	2.73E-04	5.39E-05	2.78E-06	5.17E-05	5.17E-05	5.82E-04	1.49E-04	2.73E-04	5.39E-05	2.78E-06	5.19E-06	5.17E-05	5.35E-04
1.43E-04	2.48E-04	5.33E-05	2.71E-06	5.08E-05	5.08E-05	5.48E-04	1.43E-04	2.48E-04	5.33E-05	2.71E-06	5.06E-06	5.08E-05	5.03E-04
1.40E-04	2.43E-04	5.45E-05	2.79E-06	5.14E-05	5.14E-05	5.43E-04	1.40E-04	2.43E-04	5.45E-05	2.79E-06	5.15E-06	5.14E-05	4.96E-04
1.48E-04	2.82E-04	6.03E-05	3.13E-06	5.64E-05	5.64E-05	6.06E-04	1.48E-04	2.82E-04	6.03E-05	3.13E-06	5.86E-06	5.64E-05	5.55E-04
1.44E-04	2.70E-04	6.13E-05	3.16E-06	5.74E-05	5.74E-05	5.93E-04	1.44E-04	2.70E-04	6.13E-05	3.16E-06	6.03E-06	5.74E-05	5.42E-04
1.44E-04	2.72E-04	6.38E-05	3.32E-06	5.87E-05	5.87E-05	6.00E-04	1.44E-04	2.72E-04	6.38E-05	3.32E-06	6.29E-06	5.87E-05	5.48E-04
1.49E-04	2.99E-04	7.02E-05	3.70E-06	6.14E-05	6.14E-05	6.45E-04	1.49E-04	2.99E-04	7.02E-05	3.70E-06	6.86E-06	6.14E-05	5.90E-04
1.50E-04	3.11E-04	7.53E-05	4.02E-06	6.30E-05	6.30E-05	6.66E-04	1.50E-04	3.11E-04	7.53E-05	4.02E-06	7.37E-06	6.30E-05	6.11E-04
1.50E-04	3.19E-04	8.06E-05	4.31E-06	6.47E-05	6.47E-05	6.83E-04	1.50E-04	3.19E-04	8.06E-05	4.31E-06	7.89E-06	6.47E-05	6.27E-04
1.51E-04	3.24E-04	8.61E-05	4.60E-06	6.77E-05	6.77E-05	7.01E-04	1.51E-04	3.24E-04	8.61E-05	4.60E-06	8.37E-06	6.77E-05	6.42E-04
1.51E-04	3.28E-04	9.22E-05	4.93E-06	7.06E-05	7.06E-05	7.17E-04	1.51E-04	3.28E-04	9.22E-05	4.93E-06	8.76E-06	7.06E-05	6.55E-04
1.51E-04	3.36E-04	9.94E-05	5.33E-06	7.43E-05	7.43E-05	7.41E-04	1.51E-04	3.36E-04	9.94E-05	5.33E-06	9.20E-06	7.43E-05	6.76E-04
1.52E-04	3.43E-04	1.07E-04	5.73E-06	7.86E-05	7.86E-05	7.65E-04	1.52E-04	3.43E-04	1.07E-04	5.73E-06	9.64E-06	7.86E-05	6.96E-04
1.52E-04	3.46E-04	1.14E-04	6.14E-06	8.34E-05	8.34E-05	7.85E-04	1.52E-04	3.46E-04	1.14E-04	6.14E-06	1.03E-05	8.34E-05	7.12E-04
1.51E-04	3.47E-04	1.21E-04	6.54E-06	8.89E-05	8.89E-05	8.04E-04	1.51E-04	3.47E-04	1.21E-04	6.54E-06	1.09E-05	8.89E-05	7.26E-04
1.51E-04	3.44E-04	1.27E-04	6.91E-06	9.42E-05	9.42E-05	8.17E-04	1.51E-04	3.44E-04	1.27E-04	6.91E-06	1.16E-05	9.42E-05	7.35E-04
1.49E-04	3.38E-04	1.33E-04	7.25E-06	9.95E-05	9.95E-05	8.26E-04	1.49E-04	3.38E-04	1.33E-04	7.25E-06	1.22E-05	9.95E-05	7.39E-04
7.59E-04	7.36E-04	2.46E-04	1.45E-05	1.51E-04	1.51E-04	2.06E-03	7.59E-04	7.36E-04	2.46E-04	1.45E-05	2.42E-05	1.51E-04	1.93E-03
1.61E-03	8.69E-04	2.47E-04	1.46E-05	1.47E-04	1.47E-04	3.04E-03	1.61E-03	8.69E-04	2.47E-04	1.46E-05	2.38E-05	1.47E-04	2.91E-03
2.04E-02	9.45E-04	2.34E-04	1.42E-05	1.35E-04	1.35E-04	2.19E-02	2.04E-02	9.45E-04	2.34E-04	1.42E-05	2.30E-05	1.35E-04	2.18E-02
2.45E-03	4.19E-04	1.54E-04	9.87E-06	9.58E-05	9.58E-05	3.22E-03	2.45E-03	4.19E-04	1.54E-04	9.87E-06	1.70E-05	9.58E-05	3.14E-03
1.51E-03	5.28E-04	1.61E-04	1.08E-05	1.03E-04	1.03E-04	2.42E-03	1.51E-03	5.28E-04	1.61E-04	1.08E-05	1.82E-05	1.03E-04	2.33E-03
1.22E-03	6.36E-04	1.65E-04	1.15E-05	1.16E-04	1.16E-04	2.27E-03	1.22E-03	6.36E-04	1.65E-04	1.15E-05	1.93E-05	1.16E-04	2.17E-03
9.80E-04	6.28E-04	1.67E-04	1.09E-05	1.25E-04	1.25E-04	2.04E-03	9.80E-04	6.28E-04	1.67E-04	1.09E-05	1.80E-05	1.25E-04	1.93E-03

8.33E-04	6.57E-04	1.84E-04	1.09E-05	1.34E-04	1.34E-04	1.95E-03	8.33E-04	6.57E-04	1.84E-04	1.09E-05	1.77E-05	1.34E-04	1.84E-03
7.26E-04	6.99E-04	2.19E-04	1.19E-05	1.38E-04	1.38E-04	1.93E-03	7.26E-04	6.99E-04	2.19E-04	1.19E-05	1.92E-05	1.38E-04	1.81E-03
6.82E-04	9.58E-04	2.86E-04	1.55E-05	1.52E-04	1.52E-04	2.24E-03	6.82E-04	9.58E-04	2.86E-04	1.55E-05	2.38E-05	1.52E-04	2.12E-03
6.23E-04	1.11E-03	3.01E-04	1.90E-05	1.59E-04	1.59E-04	2.37E-03	6.23E-04	1.11E-03	3.01E-04	1.90E-05	3.25E-05	1.59E-04	2.25E-03
5.64E-04	1.12E-03	2.71E-04	1.91E-05	1.50E-04	1.50E-04	2.27E-03	5.64E-04	1.12E-03	2.71E-04	1.91E-05	3.28E-05	1.50E-04	2.15E-03
5.18E-04	1.12E-03	2.35E-04	1.78E-05	1.35E-04	1.35E-04	2.16E-03	5.18E-04	1.12E-03	2.35E-04	1.78E-05	3.12E-05	1.35E-04	2.06E-03
4.72E-04	1.07E-03	2.03E-04	1.54E-05	1.26E-04	1.26E-04	2.01E-03	4.72E-04	1.07E-03	2.03E-04	1.54E-05	2.72E-05	1.26E-04	1.92E-03
4.38E-04	1.05E-03	1.84E-04	1.31E-05	1.17E-04	1.17E-04	1.92E-03	4.38E-04	1.05E-03	1.84E-04	1.31E-05	2.00E-05	1.17E-04	1.82E-03
4.15E-04	1.06E-03	1.81E-04	1.26E-05	1.18E-04	1.18E-04	1.91E-03	4.15E-04	1.06E-03	1.81E-04	1.26E-05	2.11E-05	1.18E-04	1.81E-03
3.89E-04	1.02E-03	1.71E-04	1.21E-05	1.08E-04	1.08E-04	1.81E-03	3.89E-04	1.02E-03	1.71E-04	1.21E-05	1.98E-05	1.08E-04	1.72E-03
3.46E-04	8.59E-04	1.34E-04	9.44E-06	9.12E-05	9.12E-05	1.53E-03	3.46E-04	8.59E-04	1.34E-04	9.44E-06	1.49E-05	9.12E-05	1.45E-03
3.15E-04	7.64E-04	1.15E-04	7.94E-06	8.48E-05	8.48E-05	1.37E-03	3.15E-04	7.64E-04	1.15E-04	7.94E-06	1.32E-05	8.48E-05	1.30E-03
2.97E-04	7.25E-04	1.08E-04	7.19E-06	8.17E-05	8.17E-05	1.30E-03	2.97E-04	7.25E-04	1.08E-04	7.19E-06	1.24E-05	8.17E-05	1.23E-03
2.93E-04	7.55E-04	1.09E-04	7.30E-06	8.13E-05	8.13E-05	1.33E-03	2.93E-04	7.55E-04	1.09E-04	7.30E-06	1.22E-05	8.13E-05	1.26E-03
2.82E-04	7.37E-04	1.05E-04	6.99E-06	7.93E-05	7.93E-05	1.29E-03	2.82E-04	7.37E-04	1.05E-04	6.99E-06	1.09E-05	7.93E-05	1.22E-03
2.60E-04	6.46E-04	9.25E-05	5.76E-06	7.41E-05	7.41E-05	1.15E-03	2.60E-04	6.46E-04	9.25E-05	5.76E-06	9.74E-06	7.41E-05	1.09E-03
2.51E-04	6.29E-04	8.93E-05	5.62E-06	7.36E-05	7.36E-05	1.12E-03	2.51E-04	6.29E-04	8.93E-05	5.62E-06	9.58E-06	7.36E-05	1.06E-03
2.43E-04	6.11E-04	8.62E-05	5.53E-06	7.33E-05	7.33E-05	1.09E-03	2.43E-04	6.11E-04	8.62E-05	5.53E-06	9.34E-06	7.33E-05	1.03E-03
2.36E-04	5.97E-04	8.33E-05	5.25E-06	7.35E-05	7.35E-05	1.07E-03	2.36E-04	5.97E-04	8.33E-05	5.25E-06	9.14E-06	7.35E-05	1.00E-03
2.33E-04	5.97E-04	8.06E-05	5.06E-06	7.39E-05	7.39E-05	1.06E-03	2.33E-04	5.97E-04	8.06E-05	5.06E-06	8.74E-06	7.39E-05	9.98E-04
2.25E-04	5.77E-04	7.75E-05	4.85E-06	7.31E-05	7.31E-05	1.03E-03	2.25E-04	5.77E-04	7.75E-05	4.85E-06	8.49E-06	7.31E-05	9.66E-04
2.22E-04	5.77E-04	7.66E-05	4.76E-06	7.16E-05	7.16E-05	1.02E-03	2.22E-04	5.77E-04	7.66E-05	4.76E-06	8.35E-06	7.16E-05	9.60E-04
2.14E-04	5.43E-04	7.24E-05	4.36E-06	6.67E-05	6.67E-05	9.67E-04	2.14E-04	5.43E-04	7.24E-05	4.36E-06	7.51E-06	6.67E-05	9.08E-04
2.15E-04	5.65E-04	7.29E-05	4.40E-06	6.60E-05	6.60E-05	9.89E-04	2.15E-04	5.65E-04	7.29E-05	4.40E-06	7.49E-06	6.60E-05	9.31E-04
1.99E-04	4.80E-04	6.51E-05	3.84E-06	6.08E-05	6.08E-05	8.69E-04	1.99E-04	4.80E-04	6.51E-05	3.84E-06	6.61E-06	6.08E-05	8.15E-04
1.98E-04	4.87E-04	6.49E-05	3.87E-06	5.93E-05	5.93E-05	8.72E-04	1.98E-04	4.87E-04	6.49E-05	3.87E-06	6.65E-06	5.93E-05	8.20E-04
1.94E-04	4.78E-04	6.42E-05	3.74E-06	5.85E-05	5.85E-05	8.57E-04	1.94E-04	4.78E-04	6.42E-05	3.74E-06	6.61E-06	5.85E-05	8.05E-04
1.89E-04	4.58E-04	6.34E-05	3.62E-06	5.89E-05	5.89E-05	8.31E-04	1.89E-04	4.58E-04	6.34E-05	3.62E-06	6.41E-06	5.89E-05	7.79E-04
1.86E-04	4.51E-04	6.44E-05	3.62E-06	6.01E-05	6.01E-05	8.26E-04	1.86E-04	4.51E-04	6.44E-05	3.62E-06	6.34E-06	6.01E-05	7.72E-04
1.84E-04	4.43E-04	6.55E-05	3.59E-06	6.17E-05	6.17E-05	8.20E-04	1.84E-04	4.43E-04	6.55E-05	3.59E-06	6.49E-06	6.17E-05	7.64E-04
1.78E-04	4.16E-04	6.51E-05	3.50E-06	6.22E-05	6.22E-05	7.87E-04	1.78E-04	4.16E-04	6.51E-05	3.50E-06	6.33E-06	6.22E-05	7.31E-04
1.65E-04	3.48E-04	6.14E-05	3.22E-06	5.81E-05	5.81E-05	6.94E-04	1.65E-04	3.48E-04	6.14E-05	3.22E-06	5.79E-06	5.81E-05	6.42E-04
1.60E-04	3.28E-04	6.21E-05	3.23E-06	5.70E-05	5.70E-05	6.67E-04	1.60E-04	3.28E-04	6.21E-05	3.23E-06	5.78E-06	5.70E-05	6.15E-04
1.58E-04	3.22E-04	6.38E-05	3.32E-06	5.84E-05	5.84E-05	6.64E-04	1.58E-04	3.22E-04	6.38E-05	3.32E-06	6.08E-06	5.84E-05	6.12E-04
1.52E-04	2.98E-04	6.41E-05	3.31E-06	5.91E-05	5.91E-05	6.36E-04	1.52E-04	2.98E-04	6.41E-05	3.31E-06	6.26E-06	5.91E-05	5.83E-04
1.60E-04	3.42E-04	7.16E-05	3.78E-06	6.41E-05	6.41E-05	7.05E-04	1.60E-04	3.42E-04	7.16E-05	3.78E-06	6.96E-06	6.41E-05	6.48E-04
1.59E-04	3.42E-04	7.53E-05	4.00E-06	6.53E-05	6.53E-05	7.10E-04	1.59E-04	3.42E-04	7.53E-05	4.00E-06	7.26E-06	6.53E-05	6.52E-04
1.59E-04	3.53E-04	8.11E-05	4.34E-06	6.73E-05	6.73E-05	7.32E-04	1.59E-04	3.53E-04	8.11E-05	4.34E-06	7.86E-06	6.73E-05	6.73E-04
1.59E-04	3.57E-04	8.64E-05	4.63E-06	6.88E-05	6.88E-05	7.45E-04	1.59E-04	3.57E-04	8.64E-05	4.63E-06	8.33E-06	6.88E-05	6.84E-04
1.58E-04	3.55E-04	9.17E-05	4.87E-06	7.08E-05	7.08E-05	7.51E-04	1.58E-04	3.55E-04	9.17E-05	4.87E-06	8.81E-06	7.08E-05	6.89E-04
1.57E-04	3.56E-04	9.80E-05	5.22E-06	7.37E-05	7.37E-05	7.64E-04	1.57E-04	3.56E-04	9.80E-05	5.22E-06	9.20E-06	7.37E-05	6.99E-04
1.56E-04	3.56E-04	1.05E-04	5.55E-06	7.69E-05	7.69E-05	7.76E-04	1.56E-04	3.56E-04	1.05E-04	5.55E-06	9.51E-06	7.69E-05	7.09E-04
1.56E-04	3.56E-04	1.11E-04	5.93E-06	8.07E-05	8.07E-05	7.90E-04	1.56E-04	3.56E-04	1.11E-04	5.93E-06	9.91E-06	8.07E-05	7.19E-04
1.55E-04	3.57E-04	1.19E-04	6.34E-06	8.59E-05	8.59E-05	8.09E-04	1.55E-04	3.57E-04	1.19E-04	6.34E-06	1.06E-05	8.59E-05	7.34E-04
1.56E-04	3.64E-04	1.28E-04	6.86E-06	9.20E-05	9.20E-05	8.38E-04	1.56E-04	3.64E-04	1.28E-04	6.86E-06	1.15E-05	9.20E-05	7.58E-04
1.57E-04	3.75E-04	1.39E-04	7.55E-06	9.99E-05	9.99E-05	8.79E-04	1.57E-04	3.75E-04	1.39E-04	7.55E-06	1.26E-05	9.99E-05	7.91E-04
1.58E-04	3.81E-04	1.49E-04	8.19E-06	1.08E-04	1.08E-04	9.12E-04	1.58E-04	3.81E-04	1.49E-04	8.19E-06	1.37E-05	1.08E-04	8.17E-04
1.56E-04	3.70E-04	1.54E-04	8.50E-06	1.13E-04	1.13E-04	9.15E-04	1.56E-04	3.70E-04	1.54E-04	8.50E-06	1.44E-05	1.13E-04	8.16E-04
4.90E-04	8.77E-04	2.67E-04	1.56E-05	1.62E-04	1.62E-04	1.97E-03	4.90E-04	8.77E-04	2.67E-04	1.56E-05	2.58E-05	1.62E-04	1.84E-03
6.70E-04	1.00E-03	2.70E-04	1.58E-05	1.64E-04	1.64E-04	2.29E-03	6.70E-04	1.00E-03	2.70E-04	1.58E-05	2.64E-05	1.64E-04	2.15E-03
1.15E-03	1.21E-03	2.71E-04	1.61E-05	1.61E-04	1.61E-04	2.97E-03	1.15E-03	1.21E-03	2.71E-04	1.61E-05	2.63E-05	1.61E-04	2.84E-03
5.16E-03	1.52E-03	2.59E-04	1.56E-05	1.48E-04	1.48E-04	7.26E-03	5.16E-03	1.52E-03	2.59E-04	1.56E-05	2.53E-05	1.48E-04	7.14E-03
4.76E-03	1.05E-03	2.05E-04	1.31E-05	1.20E-04	1.20E-04	6.26E-03	4.76E-03	1.05E-03	2.05E-04	1.31E-05	2.20E-05	1.20E-04	6.16E-03
2.24E-03	1.06E-03	1.97E-04	1.30E-05	1.20E-04	1.20E-04	3.75E-03	2.24E-03	1.06E-03	1.97E-04	1.30E-05	2.18E-05	1.20E-04	3.65E-03

1.64E-03	1.22E-03	1.96E-04	1.35E-05	1.33E-04	1.33E-04	3.34E-03	1.64E-03	1.22E-03	1.96E-04	1.35E-05	2.25E-05	1.33E-04	3.23E-03
1.21E-03	1.31E-03	1.87E-04	1.25E-05	1.39E-04	1.39E-04	3.00E-03	1.21E-03	1.31E-03	1.87E-04	1.25E-05	2.07E-05	1.39E-04	2.88E-03
9.66E-04	1.45E-03	1.95E-04	1.18E-05	1.42E-04	1.42E-04	2.91E-03	9.66E-04	1.45E-03	1.95E-04	1.18E-05	1.90E-05	1.42E-04	2.78E-03
8.88E-04	1.95E-03	2.63E-04	1.39E-05	1.61E-04	1.61E-04	3.43E-03	8.88E-04	1.95E-03	2.63E-04	1.39E-05	2.20E-05	1.61E-04	3.29E-03
8.11E-04	2.32E-03	3.51E-04	1.84E-05	1.79E-04	1.79E-04	3.86E-03	8.11E-04	2.32E-03	3.51E-04	1.84E-05	2.80E-05	1.79E-04	3.71E-03
7.08E-04	2.17E-03	3.36E-04	2.11E-05	1.74E-04	1.74E-04	3.58E-03	7.08E-04	2.17E-03	3.36E-04	2.11E-05	3.59E-05	1.74E-04	3.45E-03
6.41E-04	2.08E-03	3.05E-04	2.17E-05	1.66E-04	1.66E-04	3.38E-03	6.41E-04	2.08E-03	3.05E-04	2.17E-05	3.72E-05	1.66E-04	3.25E-03
5.80E-04	1.91E-03	2.59E-04	1.96E-05	1.48E-04	1.48E-04	3.06E-03	5.80E-04	1.91E-03	2.59E-04	1.96E-05	3.47E-05	1.48E-04	2.95E-03
5.32E-04	1.81E-03	2.29E-04	1.74E-05	1.41E-04	1.41E-04	2.87E-03	5.32E-04	1.81E-03	2.29E-04	1.74E-05	2.98E-05	1.41E-04	2.76E-03
5.00E-04	1.74E-03	2.15E-04	1.54E-05	1.38E-04	1.38E-04	2.75E-03	5.00E-04	1.74E-03	2.15E-04	1.54E-05	2.33E-05	1.38E-04	2.64E-03
4.42E-04	1.45E-03	1.76E-04	1.23E-05	1.16E-04	1.16E-04	2.31E-03	4.42E-04	1.45E-03	1.76E-04	1.23E-05	2.13E-05	1.16E-04	2.22E-03
3.79E-04	1.13E-03	1.31E-04	9.19E-06	9.21E-05	9.21E-05	1.83E-03	3.79E-04	1.13E-03	1.31E-04	9.19E-06	1.53E-05	9.21E-05	1.75E-03
3.20E-04	8.47E-04	9.93E-05	6.28E-06	7.68E-05	7.68E-05	1.43E-03	3.20E-04	8.47E-04	9.93E-05	6.28E-06	1.04E-05	7.68E-05	1.36E-03
2.96E-04	7.62E-04	9.11E-05	5.57E-06	7.37E-05	7.37E-05	1.30E-03	2.96E-04	7.62E-04	9.11E-05	5.57E-06	9.80E-06	7.37E-05	1.24E-03
3.01E-04	8.33E-04	9.81E-05	6.11E-06	7.66E-05	7.66E-05	1.39E-03	3.01E-04	8.33E-04	9.81E-05	6.11E-06	1.07E-05	7.66E-05	1.32E-03
3.19E-04	9.98E-04	1.15E-04	7.74E-06	8.50E-05	8.50E-05	1.61E-03	3.19E-04	9.98E-04	1.15E-04	7.74E-06	1.23E-05	8.50E-05	1.54E-03
3.06E-04	9.55E-04	1.10E-04	7.20E-06	8.28E-05	8.28E-05	1.54E-03	3.06E-04	9.55E-04	1.10E-04	7.20E-06	1.15E-05	8.28E-05	1.47E-03
2.90E-04	8.87E-04	1.03E-04	6.56E-06	8.05E-05	8.05E-05	1.45E-03	2.90E-04	8.87E-04	1.03E-04	6.56E-06	1.10E-05	8.05E-05	1.38E-03
2.76E-04	8.22E-04	9.72E-05	6.24E-06	7.85E-05	7.85E-05	1.36E-03	2.76E-04	8.22E-04	9.72E-05	6.24E-06	1.04E-05	7.85E-05	1.29E-03
2.68E-04	7.99E-04	9.36E-05	6.00E-06	7.94E-05	7.94E-05	1.33E-03	2.68E-04	7.99E-04	9.36E-05	6.00E-06	1.04E-05	7.94E-05	1.26E-03
2.67E-04	8.22E-04	9.42E-05	6.12E-06	8.19E-05	8.19E-05	1.35E-03	2.67E-04	8.22E-04	9.42E-05	6.12E-06	1.03E-05	8.19E-05	1.28E-03
2.57E-04	7.81E-04	8.93E-05	5.73E-06	8.12E-05	8.12E-05	1.30E-03	2.57E-04	7.81E-04	8.93E-05	5.73E-06	9.85E-06	8.12E-05	1.22E-03
2.51E-04	7.60E-04	8.68E-05	5.52E-06	7.91E-05	7.91E-05	1.26E-03	2.51E-04	7.60E-04	8.68E-05	5.52E-06	9.54E-06	7.91E-05	1.19E-03
2.47E-04	7.56E-04	8.54E-05	5.31E-06	7.53E-05	7.53E-05	1.24E-03	2.47E-04	7.56E-04	8.54E-05	5.31E-06	8.95E-06	7.53E-05	1.18E-03
2.43E-04	7.49E-04	8.38E-05	5.20E-06	7.28E-05	7.28E-05	1.23E-03	2.43E-04	7.49E-04	8.38E-05	5.20E-06	8.58E-06	7.28E-05	1.16E-03
2.27E-04	6.64E-04	7.64E-05	4.67E-06	6.85E-05	6.85E-05	1.11E-03	2.27E-04	6.64E-04	7.64E-05	4.67E-06	7.87E-06	6.85E-05	1.05E-03
2.25E-04	6.60E-04	7.58E-05	4.63E-06	6.67E-05	6.67E-05	1.10E-03	2.25E-04	6.60E-04	7.58E-05	4.63E-06	7.86E-06	6.67E-05	1.04E-03
2.14E-04	6.00E-04	7.21E-05	4.25E-06	6.38E-05	6.38E-05	1.02E-03	2.14E-04	6.00E-04	7.21E-05	4.25E-06	7.39E-06	6.38E-05	9.62E-04
2.08E-04	5.74E-04	7.16E-05	4.16E-06	6.44E-05	6.44E-05	9.87E-04	2.08E-04	5.74E-04	7.16E-05	4.16E-06	7.16E-06	6.44E-05	9.29E-04
2.04E-04	5.58E-04	7.27E-05	4.10E-06	6.63E-05	6.63E-05	9.71E-04	2.04E-04	5.58E-04	7.27E-05	4.10E-06	7.14E-06	6.63E-05	9.12E-04
2.00E-04	5.43E-04	7.41E-05	4.10E-06	6.78E-05	6.78E-05	9.57E-04	2.00E-04	5.43E-04	7.41E-05	4.10E-06	7.25E-06	6.78E-05	8.97E-04
1.91E-04	4.93E-04	7.32E-05	3.95E-06	6.69E-05	6.69E-05	8.95E-04	1.91E-04	4.93E-04	7.32E-05	3.95E-06	6.90E-06	6.69E-05	8.35E-04
1.82E-04	4.47E-04	7.24E-05	3.87E-06	6.43E-05	6.43E-05	8.34E-04	1.82E-04	4.47E-04	7.24E-05	3.87E-06	6.59E-06	6.43E-05	7.76E-04
1.79E-04	4.31E-04	7.40E-05	3.94E-06	6.50E-05	6.50E-05	8.18E-04	1.79E-04	4.31E-04	7.40E-05	3.94E-06	6.84E-06	6.50E-05	7.60E-04
1.74E-04	4.10E-04	7.53E-05	3.98E-06	6.60E-05	6.60E-05	7.96E-04	1.74E-04	4.10E-04	7.53E-05	3.98E-06	7.14E-06	6.60E-05	7.37E-04
1.76E-04	4.28E-04	8.12E-05	4.34E-06	6.98E-05	6.98E-05	8.29E-04	1.76E-04	4.28E-04	8.12E-05	4.34E-06	7.76E-06	6.98E-05	7.67E-04
1.71E-04	4.08E-04	8.33E-05	4.44E-06	7.06E-05	7.06E-05	8.08E-04	1.71E-04	4.08E-04	8.33E-05	4.44E-06	7.93E-06	7.06E-05	7.45E-04
1.71E-04	4.12E-04	8.94E-05	4.78E-06	7.26E-05	7.26E-05	8.22E-04	1.71E-04	4.12E-04	8.94E-05	4.78E-06	8.49E-06	7.26E-05	7.58E-04
1.69E-04	4.08E-04	9.48E-05	5.04E-06	7.35E-05	7.35E-05	8.24E-04	1.69E-04	4.08E-04	9.48E-05	5.04E-06	8.96E-06	7.35E-05	7.59E-04
1.65E-04	3.90E-04	9.83E-05	5.21E-06	7.43E-05	7.43E-05	8.07E-04	1.65E-04	3.90E-04	9.83E-05	5.21E-06	9.25E-06	7.43E-05	7.42E-04
1.62E-04	3.74E-04	1.02E-04	5.42E-06	7.63E-05	7.63E-05	7.97E-04	1.62E-04	3.74E-04	1.02E-04	5.42E-06	9.52E-06	7.63E-05	7.30E-04
1.60E-04	3.67E-04	1.09E-04	5.73E-06	7.92E-05	7.92E-05	8.00E-04	1.60E-04	3.67E-04	1.09E-04	5.73E-06	9.78E-06	7.92E-05	7.31E-04
1.58E-04	3.61E-04	1.14E-04	6.08E-06	8.28E-05	8.28E-05	8.05E-04	1.58E-04	3.61E-04	1.14E-04	6.08E-06	1.02E-05	8.28E-05	7.32E-04
1.57E-04	3.60E-04	1.22E-04	6.49E-06	8.80E-05	8.80E-05	8.22E-04	1.57E-04	3.60E-04	1.22E-04	6.49E-06	1.08E-05	8.80E-05	7.45E-04
1.57E-04	3.58E-04	1.29E-04	6.91E-06	9.35E-05	9.35E-05	8.38E-04	1.57E-04	3.58E-04	1.29E-04	6.91E-06	1.16E-05	9.35E-05	7.56E-04
1.58E-04	3.68E-04	1.41E-04	7.57E-06	1.01E-04	1.01E-04	8.76E-04	1.58E-04	3.68E-04	1.41E-04	7.57E-06	1.27E-05	1.01E-04	7.88E-04
1.60E-04	3.87E-04	1.56E-04	8.48E-06	1.10E-04	1.10E-04	9.31E-04	1.60E-04	3.87E-04	1.56E-04	8.48E-06	1.42E-05	1.10E-04	8.35E-04
1.63E-04	4.10E-04	1.72E-04	9.56E-06	1.22E-04	1.22E-04	1.00E-03	1.63E-04	4.10E-04	1.72E-04	9.56E-06	1.61E-05	1.22E-04	8.94E-04
1.62E-04	4.06E-04	1.82E-04	1.01E-05	1.29E-04	1.29E-04	1.02E-03	1.62E-04	4.06E-04	1.82E-04	1.01E-05	1.73E-05	1.29E-04	9.06E-04
3.87E-04	1.05E-03	2.90E-04	1.67E-05	1.74E-04	1.74E-04	2.09E-03	3.87E-04	1.05E-03	2.90E-04	1.67E-05	2.85E-05	1.74E-04	1.95E-03
4.68E-04	1.25E-03	2.96E-04	1.71E-05	1.77E-04	1.77E-04	2.38E-03	4.68E-04	1.25E-03	2.96E-04	1.71E-05	2.84E-05	1.77E-04	2.23E-03
6.15E-04	1.52E-03	2.99E-04	1.74E-05	1.78E-04	1.78E-04	2.81E-03	6.15E-04	1.52E-03	2.99E-04	1.74E-05	2.87E-05	1.78E-04	2.66E-03
9.11E-04	2.03E-03	2.99E-04	1.77E-05	1.76E-04	1.76E-04	3.61E-03	9.11E-04	2.03E-03	2.99E-04	1.77E-05	2.90E-05	1.76E-04	3.46E-03
1.80E-03	3.32E-03	3.01E-04	1.79E-05	1.71E-04	1.71E-04	5.78E-03	1.80E-03	3.32E-03	3.01E-04	1.79E-05	2.88E-05	1.71E-04	5.64E-03

3.16E-02	2.04E-02	2.82E-04	1.72E-05	1.57E-04	1.57E-04	5.26E-02	3.16E-02	2.04E-02	2.82E-04	1.72E-05	2.78E-05	1.57E-04	5.25E-02
3.43E-03	9.00E-03	2.31E-04	1.50E-05	1.35E-04	1.35E-04	1.29E-02	3.43E-03	9.00E-03	2.31E-04	1.50E-05	2.51E-05	1.35E-04	1.28E-02
2.08E-03	7.39E-03	2.29E-04	1.55E-05	1.50E-04	1.50E-04	1.00E-02	2.08E-03	7.39E-03	2.29E-04	1.55E-05	2.56E-05	1.50E-04	9.89E-03
1.40E-03	5.11E-03	2.10E-04	1.42E-05	1.54E-04	1.54E-04	7.04E-03	1.40E-03	5.11E-03	2.10E-04	1.42E-05	2.37E-05	1.54E-04	6.91E-03
1.07E-03	4.00E-03	2.15E-04	1.31E-05	1.55E-04	1.55E-04	5.61E-03	1.07E-03	4.00E-03	2.15E-04	1.31E-05	2.11E-05	1.55E-04	5.48E-03
1.02E-03	4.53E-03	3.24E-04	1.64E-05	1.92E-04	1.92E-04	6.28E-03	1.02E-03	4.53E-03	3.24E-04	1.64E-05	2.54E-05	1.92E-04	6.11E-03
8.94E-04	4.09E-03	3.95E-04	2.04E-05	1.95E-04	1.95E-04	5.79E-03	8.94E-04	4.09E-03	3.95E-04	2.04E-05	3.09E-05	1.95E-04	5.63E-03
7.91E-04	3.65E-03	3.91E-04	2.42E-05	1.97E-04	1.97E-04	5.25E-03	7.91E-04	3.65E-03	3.91E-04	2.42E-05	4.09E-05	1.97E-04	5.09E-03
7.16E-04	3.27E-03	3.42E-04	2.45E-05	1.82E-04	1.82E-04	4.72E-03	7.16E-04	3.27E-03	3.42E-04	2.45E-05	4.20E-05	1.82E-04	4.58E-03
6.49E-04	2.93E-03	2.92E-04	2.22E-05	1.65E-04	1.65E-04	4.22E-03	6.49E-04	2.93E-03	2.92E-04	2.22E-05	3.94E-05	1.65E-04	4.09E-03
5.99E-04	2.68E-03	2.53E-04	1.92E-05	1.56E-04	1.56E-04	3.86E-03	5.99E-04	2.68E-03	2.53E-04	1.92E-05	3.20E-05	1.56E-04	3.74E-03
5.01E-04	1.99E-03	1.77E-04	1.28E-05	1.18E-04	1.18E-04	2.91E-03	5.01E-04	1.99E-03	1.77E-04	1.28E-05	2.03E-05	1.18E-04	2.82E-03
3.89E-04	1.27E-03	1.14E-04	7.43E-06	8.47E-05	8.47E-05	1.95E-03	3.89E-04	1.27E-03	1.14E-04	7.43E-06	1.30E-05	8.47E-05	1.88E-03
3.82E-04	1.30E-03	1.16E-04	7.68E-06	8.59E-05	8.59E-05	1.98E-03	3.82E-04	1.30E-03	1.16E-04	7.68E-06	1.27E-05	8.59E-05	1.90E-03
3.52E-04	1.14E-03	1.05E-04	6.66E-06	8.18E-05	8.18E-05	1.77E-03	3.52E-04	1.14E-03	1.05E-04	6.66E-06	1.14E-05	8.18E-05	1.70E-03
3.42E-04	1.13E-03	1.07E-04	6.71E-06	8.24E-05	8.24E-05	1.75E-03	3.42E-04	1.13E-03	1.07E-04	6.71E-06	1.17E-05	8.24E-05	1.68E-03
3.73E-04	1.41E-03	1.33E-04	9.22E-06	9.61E-05	9.61E-05	2.12E-03	3.73E-04	1.41E-03	1.33E-04	9.22E-06	1.51E-05	9.61E-05	2.04E-03
3.53E-04	1.31E-03	1.26E-04	8.61E-06	9.22E-05	9.22E-05	1.98E-03	3.53E-04	1.31E-03	1.26E-04	8.61E-06	1.36E-05	9.22E-05	1.90E-03
3.30E-04	1.18E-03	1.16E-04	7.49E-06	8.69E-05	8.69E-05	1.81E-03	3.30E-04	1.18E-03	1.16E-04	7.49E-06	1.23E-05	8.69E-05	1.74E-03
3.14E-04	1.10E-03	1.10E-04	7.22E-06	8.57E-05	8.57E-05	1.70E-03	3.14E-04	1.10E-03	1.10E-04	7.22E-06	1.18E-05	8.57E-05	1.63E-03
3.05E-04	1.07E-03	1.07E-04	7.01E-06	8.66E-05	8.66E-05	1.66E-03	3.05E-04	1.07E-03	1.07E-04	7.01E-06	1.22E-05	8.66E-05	1.59E-03
3.02E-04	1.07E-03	1.07E-04	7.12E-06	8.87E-05	8.87E-05	1.67E-03	3.02E-04	1.07E-03	1.07E-04	7.12E-06	1.18E-05	8.87E-05	1.59E-03
2.92E-04	1.03E-03	1.03E-04	6.80E-06	9.01E-05	9.01E-05	1.61E-03	2.92E-04	1.03E-03	1.03E-04	6.80E-06	1.15E-05	9.01E-05	1.53E-03
2.87E-04	1.02E-03	1.02E-04	6.68E-06	8.99E-05	8.99E-05	1.59E-03	2.87E-04	1.02E-03	1.02E-04	6.68E-06	1.15E-05	8.99E-05	1.51E-03
2.81E-04	1.00E-03	1.00E-04	6.51E-06	8.58E-05	8.58E-05	1.56E-03	2.81E-04	1.00E-03	1.00E-04	6.51E-06	1.07E-05	8.58E-05	1.49E-03
2.67E-04	9.22E-04	9.36E-05	5.95E-06	7.92E-05	7.92E-05	1.45E-03	2.67E-04	9.22E-04	9.36E-05	5.95E-06	9.54E-06	7.92E-05	1.38E-03
2.56E-04	8.58E-04	8.83E-05	5.57E-06	7.62E-05	7.62E-05	1.36E-03	2.56E-04	8.58E-04	8.83E-05	5.57E-06	9.18E-06	7.62E-05	1.29E-03
2.47E-04	8.12E-04	8.57E-05	5.28E-06	7.23E-05	7.23E-05	1.29E-03	2.47E-04	8.12E-04	8.57E-05	5.28E-06	8.82E-06	7.23E-05	1.23E-03
2.35E-04	7.45E-04	8.25E-05	4.94E-06	6.96E-05	6.96E-05	1.21E-03	2.35E-04	7.45E-04	8.25E-05	4.94E-06	8.35E-06	6.96E-05	1.15E-03
2.28E-04	7.07E-04	8.25E-05	4.79E-06	7.05E-05	7.05E-05	1.16E-03	2.28E-04	7.07E-04	8.25E-05	4.79E-06	8.08E-06	7.05E-05	1.10E-03
2.23E-04	6.84E-04	8.39E-05	4.76E-06	7.32E-05	7.32E-05	1.14E-03	2.23E-04	6.84E-04	8.39E-05	4.76E-06	8.15E-06	7.32E-05	1.08E-03
2.18E-04	6.62E-04	8.60E-05	4.82E-06	7.48E-05	7.48E-05	1.12E-03	2.18E-04	6.62E-04	8.60E-05	4.82E-06	8.17E-06	7.48E-05	1.05E-03
2.17E-04	6.65E-04	9.04E-05	5.12E-06	7.69E-05	7.69E-05	1.13E-03	2.17E-04	6.65E-04	9.04E-05	5.12E-06	8.35E-06	7.69E-05	1.06E-03
2.11E-04	6.33E-04	9.22E-05	5.20E-06	7.62E-05	7.62E-05	1.09E-03	2.11E-04	6.33E-04	9.22E-05	5.20E-06	8.38E-06	7.62E-05	1.03E-03
2.03E-04	5.89E-04	9.27E-05	5.13E-06	7.58E-05	7.58E-05	1.04E-03	2.03E-04	5.89E-04	9.27E-05	5.13E-06	8.59E-06	7.58E-05	9.74E-04
1.92E-04	5.27E-04	9.18E-05	4.98E-06	7.59E-05	7.59E-05	9.68E-04	1.92E-04	5.27E-04	9.18E-05	4.98E-06	8.64E-06	7.59E-05	9.01E-04
1.88E-04	5.07E-04	9.53E-05	5.15E-06	7.76E-05	7.76E-05	9.51E-04	1.88E-04	5.07E-04	9.53E-05	5.15E-06	8.99E-06	7.76E-05	8.82E-04
1.85E-04	4.94E-04	1.00E-04	5.44E-06	7.93E-05	7.93E-05	9.44E-04	1.85E-04	4.94E-04	1.00E-04	5.44E-06	9.42E-06	7.93E-05	8.74E-04
1.81E-04	4.75E-04	1.05E-04	5.63E-06	7.98E-05	7.98E-05	9.27E-04	1.81E-04	4.75E-04	1.05E-04	5.63E-06	9.84E-06	7.98E-05	8.57E-04
1.73E-04	4.30E-04	1.06E-04	5.61E-06	7.88E-05	7.88E-05	8.72E-04	1.73E-04	4.30E-04	1.06E-04	5.61E-06	9.83E-06	7.88E-05	8.03E-04
1.68E-04	3.99E-04	1.09E-04	5.74E-06	7.94E-05	7.94E-05	8.40E-04	1.68E-04	3.99E-04	1.09E-04	5.74E-06	9.92E-06	7.94E-05	7.71E-04
1.64E-04	3.83E-04	1.15E-04	6.00E-06	8.18E-05	8.18E-05	8.31E-04	1.64E-04	3.83E-04	1.15E-04	6.00E-06	1.01E-05	8.18E-05	7.60E-04
1.62E-04	3.75E-04	1.21E-04	6.38E-06	8.56E-05	8.56E-05	8.36E-04	1.62E-04	3.75E-04	1.21E-04	6.38E-06	1.05E-05	8.56E-05	7.61E-04
1.58E-04	3.56E-04	1.26E-04	6.59E-06	8.92E-05	8.92E-05	8.25E-04	1.58E-04	3.56E-04	1.26E-04	6.59E-06	1.09E-05	8.92E-05	7.47E-04
1.48E-04	3.00E-04	1.21E-04	6.29E-06	8.88E-05	8.88E-05	7.54E-04	1.48E-04	3.00E-04	1.21E-04	6.29E-06	1.07E-05	8.88E-05	6.76E-04
1.57E-04	3.51E-04	1.42E-04	7.55E-06	1.02E-04	1.02E-04	8.61E-04	1.57E-04	3.51E-04	1.42E-04	7.55E-06	1.27E-05	1.02E-04	7.72E-04
1.58E-04	3.61E-04	1.54E-04	8.31E-06	1.10E-04	1.10E-04	9.02E-04	1.58E-04	3.61E-04	1.54E-04	8.31E-06	1.41E-05	1.10E-04	8.06E-04
1.61E-04	3.81E-04	1.71E-04	9.26E-06	1.20E-04	1.20E-04	9.62E-04	1.61E-04	3.81E-04	1.71E-04	9.26E-06	1.58E-05	1.20E-04	8.58E-04
1.68E-04	4.33E-04	1.99E-04	1.10E-05	1.38E-04	1.38E-04	1.09E-03	1.68E-04	4.33E-04	1.99E-04	1.10E-05	1.89E-05	1.38E-04	9.68E-04
1.69E-04	4.41E-04	2.15E-04	1.20E-05	1.47E-04	1.47E-04	1.13E-03	1.69E-04	4.41E-04	2.15E-04	1.20E-05	2.06E-05	1.47E-04	1.01E-03
3.29E-04	1.12E-03	3.11E-04	1.70E-05	1.86E-04	1.86E-04	2.15E-03	3.29E-04	1.12E-03	3.11E-04	1.70E-05	2.94E-05	1.86E-04	1.99E-03
3.81E-04	1.36E-03	3.19E-04	1.80E-05	1.89E-04	1.89E-04	2.45E-03	3.81E-04	1.36E-03	3.19E-04	1.80E-05	3.12E-05	1.89E-04	2.30E-03
4.54E-04	1.73E-03	3.24E-04	1.86E-05	1.90E-04	1.90E-04	2.91E-03	4.54E-04	1.73E-03	3.24E-04	1.86E-05	3.14E-05	1.90E-04	2.75E-03
5.67E-04	2.35E-03	3.30E-04	1.91E-05	1.93E-04	1.93E-04	3.65E-03	5.67E-04	2.35E-03	3.30E-04	1.91E-05	3.15E-05	1.93E-04	3.49E-03

7.65E-04	3.53E-03	3.31E-04	1.94E-05	1.91E-04	1.91E-04	5.02E-03	7.65E-04	3.53E-03	3.31E-04	1.94E-05	3.19E-05	1.91E-04	4.86E-03
1.24E-03	6.49E-03	3.33E-04	1.97E-05	1.87E-04	1.87E-04	8.46E-03	1.24E-03	6.49E-03	3.33E-04	1.97E-05	3.20E-05	1.87E-04	8.30E-03
5.51E-03	2.35E-02	3.21E-04	1.94E-05	1.76E-04	1.76E-04	2.97E-02	5.51E-03	2.35E-02	3.21E-04	1.94E-05	3.12E-05	1.76E-04	2.95E-02
4.44E-03	2.18E-02	2.75E-04	1.75E-05	1.55E-04	1.55E-04	2.69E-02	4.44E-03	2.18E-02	2.75E-04	1.75E-05	2.89E-05	1.55E-04	2.67E-02
2.49E-03	1.49E-02	2.81E-04	1.84E-05	1.78E-04	1.78E-04	1.81E-02	2.49E-03	1.49E-02	2.81E-04	1.84E-05	3.00E-05	1.78E-04	1.79E-02
1.60E-03	9.08E-03	2.46E-04	1.68E-05	1.78E-04	1.78E-04	1.13E-02	1.60E-03	9.08E-03	2.46E-04	1.68E-05	2.77E-05	1.78E-04	1.12E-02
1.20E-03	6.33E-03	2.41E-04	1.50E-05	1.72E-04	1.72E-04	8.13E-03	1.20E-03	6.33E-03	2.41E-04	1.50E-05	2.40E-05	1.72E-04	7.98E-03
1.17E-03	6.79E-03	3.84E-04	1.89E-05	2.22E-04	2.22E-04	8.81E-03	1.17E-03	6.79E-03	3.84E-04	1.89E-05	2.86E-05	2.22E-04	8.61E-03
1.03E-03	5.85E-03	4.40E-04	2.26E-05	2.11E-04	2.11E-04	7.76E-03	1.03E-03	5.85E-03	4.40E-04	2.26E-05	3.39E-05	2.11E-04	7.58E-03
9.26E-04	5.27E-03	4.40E-04	2.71E-05	2.16E-04	2.16E-04	7.10E-03	9.26E-04	5.27E-03	4.40E-04	2.71E-05	4.56E-05	2.16E-04	6.93E-03
8.34E-04	4.64E-03	3.73E-04	2.72E-05	1.95E-04	1.95E-04	6.26E-03	8.34E-04	4.64E-03	3.73E-04	2.72E-05	4.68E-05	1.95E-04	6.11E-03
7.39E-04	3.94E-03	3.02E-04	2.36E-05	1.73E-04	1.73E-04	5.35E-03	7.39E-04	3.94E-03	3.02E-04	2.36E-05	4.21E-05	1.73E-04	5.22E-03
6.15E-04	2.95E-03	2.08E-04	1.60E-05	1.34E-04	1.34E-04	4.05E-03	6.15E-04	2.95E-03	2.08E-04	1.60E-05	2.62E-05	1.34E-04	3.94E-03
3.84E-04	1.25E-03	9.33E-05	5.49E-06	7.49E-05	7.49E-05	1.88E-03	3.84E-04	1.25E-03	9.33E-05	5.49E-06	1.02E-05	7.49E-05	1.82E-03
4.30E-04	1.65E-03	1.19E-04	7.78E-06	8.86E-05	8.86E-05	2.39E-03	4.30E-04	1.65E-03	1.19E-04	7.78E-06	1.34E-05	8.86E-05	2.31E-03
4.70E-04	2.04E-03	1.52E-04	1.09E-05	1.05E-04	1.05E-04	2.88E-03	4.70E-04	2.04E-03	1.52E-04	1.09E-05	1.74E-05	1.05E-04	2.80E-03
4.49E-04	1.95E-03	1.52E-04	1.07E-05	1.07E-04	1.07E-04	2.77E-03	4.49E-04	1.95E-03	1.52E-04	1.07E-05	1.83E-05	1.07E-04	2.68E-03
4.34E-04	1.91E-03	1.56E-04	1.09E-05	1.08E-04	1.08E-04	2.73E-03	4.34E-04	1.91E-03	1.56E-04	1.09E-05	1.83E-05	1.08E-04	2.64E-03
4.16E-04	1.82E-03	1.55E-04	1.09E-05	1.06E-04	1.06E-04	2.61E-03	4.16E-04	1.82E-03	1.55E-04	1.09E-05	1.72E-05	1.06E-04	2.52E-03
3.83E-04	1.60E-03	1.35E-04	9.17E-06	9.72E-05	9.72E-05	2.32E-03	3.83E-04	1.60E-03	1.35E-04	9.17E-06	1.46E-05	9.72E-05	2.24E-03
3.64E-04	1.49E-03	1.30E-04	8.86E-06	9.64E-05	9.64E-05	2.19E-03	3.64E-04	1.49E-03	1.30E-04	8.86E-06	1.43E-05	9.64E-05	2.11E-03
3.41E-04	1.35E-03	1.20E-04	7.98E-06	9.33E-05	9.33E-05	2.01E-03	3.41E-04	1.35E-03	1.20E-04	7.98E-06	1.37E-05	9.33E-05	1.93E-03
3.32E-04	1.31E-03	1.16E-04	7.85E-06	9.38E-05	9.38E-05	1.96E-03	3.32E-04	1.31E-03	1.16E-04	7.85E-06	1.31E-05	9.38E-05	1.88E-03
3.32E-04	1.35E-03	1.22E-04	8.36E-06	1.01E-04	1.01E-04	2.01E-03	3.32E-04	1.35E-03	1.22E-04	8.36E-06	1.38E-05	1.01E-04	1.92E-03
3.20E-04	1.29E-03	1.18E-04	7.91E-06	1.00E-04	1.00E-04	1.93E-03	3.20E-04	1.29E-03	1.18E-04	7.91E-06	1.34E-05	1.00E-04	1.85E-03
3.11E-04	1.24E-03	1.15E-04	7.62E-06	9.45E-05	9.45E-05	1.86E-03	3.11E-04	1.24E-03	1.15E-04	7.62E-06	1.22E-05	9.45E-05	1.78E-03
2.97E-04	1.16E-03	1.08E-04	7.10E-06	8.84E-05	8.84E-05	1.75E-03	2.97E-04	1.16E-03	1.08E-04	7.10E-06	1.11E-05	8.84E-05	1.67E-03
2.83E-04	1.06E-03	1.02E-04	6.52E-06	8.45E-05	8.45E-05	1.62E-03	2.83E-04	1.06E-03	1.02E-04	6.52E-06	1.07E-05	8.45E-05	1.55E-03
2.66E-04	9.53E-04	9.52E-05	5.89E-06	7.77E-05	7.77E-05	1.48E-03	2.66E-04	9.53E-04	9.52E-05	5.89E-06	9.70E-06	7.77E-05	1.41E-03
2.57E-04	9.10E-04	9.53E-05	5.75E-06	7.61E-05	7.61E-05	1.42E-03	2.57E-04	9.10E-04	9.53E-05	5.75E-06	9.36E-06	7.61E-05	1.35E-03
2.49E-04	8.62E-04	9.59E-05	5.59E-06	7.79E-05	7.79E-05	1.37E-03	2.49E-04	8.62E-04	9.59E-05	5.59E-06	9.21E-06	7.79E-05	1.30E-03
2.42E-04	8.26E-04	9.81E-05	5.64E-06	8.01E-05	8.01E-05	1.33E-03	2.42E-04	8.26E-04	9.81E-05	5.64E-06	9.24E-06	8.01E-05	1.26E-03
2.37E-04	8.02E-04	1.01E-04	5.84E-06	8.24E-05	8.24E-05	1.31E-03	2.37E-04	8.02E-04	1.01E-04	5.84E-06	9.35E-06	8.24E-05	1.24E-03
2.36E-04	8.04E-04	1.08E-04	6.31E-06	8.57E-05	8.57E-05	1.33E-03	2.36E-04	8.04E-04	1.08E-04	6.31E-06	9.74E-06	8.57E-05	1.25E-03
2.28E-04	7.58E-04	1.10E-04	6.32E-06	8.52E-05	8.52E-05	1.27E-03	2.28E-04	7.58E-04	1.10E-04	6.32E-06	1.01E-05	8.52E-05	1.20E-03
2.18E-04	6.90E-04	1.09E-04	6.13E-06	8.46E-05	8.46E-05	1.19E-03	2.18E-04	6.90E-04	1.09E-04	6.13E-06	1.01E-05	8.46E-05	1.12E-03
2.08E-04	6.36E-04	1.11E-04	6.12E-06	8.60E-05	8.60E-05	1.13E-03	2.08E-04	6.36E-04	1.11E-04	6.12E-06	1.03E-05	8.60E-05	1.06E-03
2.02E-04	5.96E-04	1.15E-04	6.27E-06	8.69E-05	8.69E-05	1.09E-03	2.02E-04	5.96E-04	1.15E-04	6.27E-06	1.05E-05	8.69E-05	1.02E-03
1.91E-04	5.31E-04	1.15E-04	6.17E-06	8.56E-05	8.56E-05	1.02E-03	1.91E-04	5.31E-04	1.15E-04	6.17E-06	1.05E-05	8.56E-05	9.40E-04
1.81E-04	4.66E-04	1.15E-04	6.02E-06	8.39E-05	8.39E-05	9.36E-04	1.81E-04	4.66E-04	1.15E-04	6.02E-06	1.04E-05	8.39E-05	8.62E-04
1.75E-04	4.33E-04	1.19E-04	6.21E-06	8.41E-05	8.41E-05	9.02E-04	1.75E-04	4.33E-04	1.19E-04	6.21E-06	1.06E-05	8.41E-05	8.28E-04
1.69E-04	4.04E-04	1.24E-04	6.44E-06	8.59E-05	8.59E-05	8.75E-04	1.69E-04	4.04E-04	1.24E-04	6.44E-06	1.07E-05	8.59E-05	8.00E-04
1.64E-04	3.78E-04	1.28E-04	6.67E-06	8.84E-05	8.84E-05	8.53E-04	1.64E-04	3.78E-04	1.28E-04	6.67E-06	1.10E-05	8.84E-05	7.76E-04
1.63E-04	3.72E-04	1.36E-04	7.11E-06	9.34E-05	9.34E-05	8.65E-04	1.63E-04	3.72E-04	1.36E-04	7.11E-06	1.17E-05	9.34E-05	7.84E-04
1.55E-04	3.30E-04	1.36E-04	7.06E-06	9.55E-05	9.55E-05	8.19E-04	1.55E-04	3.30E-04	1.36E-04	7.06E-06	1.18E-05	9.55E-05	7.35E-04
1.52E-04	3.17E-04	1.42E-04	7.40E-06	1.01E-04	1.01E-04	8.19E-04	1.52E-04	3.17E-04	1.42E-04	7.40E-06	1.25E-05	1.01E-04	7.31E-04
1.55E-04	3.35E-04	1.56E-04	8.26E-06	1.10E-04	1.10E-04	8.75E-04	1.55E-04	3.35E-04	1.56E-04	8.26E-06	1.40E-05	1.10E-04	7.78E-04
1.51E-04	3.16E-04	1.61E-04	8.51E-06	1.15E-04	1.15E-04	8.68E-04	1.51E-04	3.16E-04	1.61E-04	8.51E-06	1.47E-05	1.15E-04	7.67E-04
1.57E-04	3.51E-04	1.82E-04	9.78E-06	1.29E-04	1.29E-04	9.57E-04	1.57E-04	3.51E-04	1.82E-04	9.78E-06	1.70E-05	1.29E-04	8.46E-04
1.75E-04	4.69E-04	2.39E-04	1.34E-05	1.59E-04	1.59E-04	1.21E-03	1.75E-04	4.69E-04	2.39E-04	1.34E-05	2.29E-05	1.59E-04	1.08E-03
1.74E-04	4.66E-04	2.52E-04	1.42E-05	1.66E-04	1.66E-04	1.24E-03	1.74E-04	4.66E-04	2.52E-04	1.42E-05	2.46E-05	1.66E-04	1.10E-03
2.89E-04	1.13E-03	3.13E-04	1.67E-05	1.92E-04	1.92E-04	2.13E-03	2.89E-04	1.13E-03	3.13E-04	1.67E-05	2.69E-05	1.92E-04	1.96E-03
3.21E-04	1.37E-03	3.35E-04	1.80E-05	2.00E-04	2.00E-04	2.45E-03	3.21E-04	1.37E-03	3.35E-04	1.80E-05	2.99E-05	2.00E-04	2.28E-03
3.64E-04	1.71E-03	3.50E-04	1.92E-05	2.05E-04	2.05E-04	2.85E-03	3.64E-04	1.71E-03	3.50E-04	1.92E-05	3.28E-05	2.05E-04	2.68E-03

4.28E-04	2.21E-03	3.59E-04	2.02E-05	2.08E-04	2.08E-04	3.43E-03	4.28E-04	2.21E-03	3.59E-04	2.02E-05	3.46E-05	2.08E-04	3.26E-03
5.23E-04	3.02E-03	3.68E-04	2.11E-05	2.12E-04	2.12E-04	4.36E-03	5.23E-04	3.02E-03	3.68E-04	2.11E-05	3.51E-05	2.12E-04	4.18E-03
6.94E-04	4.42E-03	3.71E-04	2.16E-05	2.11E-04	2.11E-04	5.93E-03	6.94E-04	4.42E-03	3.71E-04	2.16E-05	3.53E-05	2.11E-04	5.75E-03
1.08E-03	7.02E-03	3.75E-04	2.22E-05	2.09E-04	2.09E-04	8.91E-03	1.08E-03	7.02E-03	3.75E-04	2.22E-05	3.56E-05	2.09E-04	8.74E-03
3.48E-03	1.99E-02	3.55E-04	2.14E-05	1.91E-04	1.91E-04	2.41E-02	3.48E-03	1.99E-02	3.55E-04	2.14E-05	3.48E-05	1.91E-04	2.40E-02
7.49E-03	3.92E-02	3.37E-04	2.09E-05	1.84E-04	1.84E-04	4.74E-02	7.49E-03	3.92E-02	3.37E-04	2.09E-05	3.38E-05	1.84E-04	4.73E-02
3.65E-03	2.17E-02	3.33E-04	2.13E-05	2.05E-04	2.05E-04	2.61E-02	3.65E-03	2.17E-02	3.33E-04	2.13E-05	3.43E-05	2.05E-04	2.60E-02
2.56E-03	1.51E-02	3.00E-04	2.01E-05	2.13E-04	2.13E-04	1.84E-02	2.56E-03	1.51E-02	3.00E-04	2.01E-05	3.27E-05	2.13E-04	1.82E-02
1.95E-03	1.14E-02	3.02E-04	1.85E-05	2.13E-04	2.13E-04	1.41E-02	1.95E-03	1.14E-02	3.02E-04	1.85E-05	2.96E-05	2.13E-04	1.40E-02
1.76E-03	1.14E-02	4.56E-04	2.20E-05	2.60E-04	2.60E-04	1.42E-02	1.76E-03	1.14E-02	4.56E-04	2.20E-05	3.23E-05	2.60E-04	1.39E-02
1.44E-03	9.24E-03	5.16E-04	2.58E-05	2.40E-04	2.40E-04	1.17E-02	1.44E-03	9.24E-03	5.16E-04	2.58E-05	3.83E-05	2.40E-04	1.15E-02
1.21E-03	7.83E-03	5.10E-04	3.11E-05	2.44E-04	2.44E-04	1.01E-02	1.21E-03	7.83E-03	5.10E-04	3.11E-05	5.17E-05	2.44E-04	9.88E-03
1.02E-03	6.35E-03	4.09E-04	3.03E-05	2.11E-04	2.11E-04	8.23E-03	1.02E-03	6.35E-03	4.09E-04	3.03E-05	5.24E-05	2.11E-04	8.07E-03
8.37E-04	4.93E-03	3.08E-04	2.46E-05	1.80E-04	1.80E-04	6.46E-03	8.37E-04	4.93E-03	3.08E-04	2.46E-05	4.39E-05	1.80E-04	6.33E-03
6.95E-04	3.79E-03	2.29E-04	1.78E-05	1.44E-04	1.44E-04	5.02E-03	6.95E-04	3.79E-03	2.29E-04	1.78E-05	2.82E-05	1.44E-04	4.91E-03
6.49E-04	3.54E-03	2.33E-04	1.69E-05	1.43E-04	1.43E-04	4.73E-03	6.49E-04	3.54E-03	2.33E-04	1.69E-05	2.77E-05	1.43E-04	4.61E-03
6.11E-04	3.32E-03	2.30E-04	1.73E-05	1.44E-04	1.44E-04	4.47E-03	6.11E-04	3.32E-03	2.30E-04	1.73E-05	2.78E-05	1.44E-04	4.35E-03
5.59E-04	2.95E-03	2.13E-04	1.58E-05	1.33E-04	1.33E-04	4.00E-03	5.59E-04	2.95E-03	2.13E-04	1.58E-05	2.48E-05	1.33E-04	3.89E-03
5.01E-04	2.51E-03	1.83E-04	1.31E-05	1.22E-04	1.22E-04	3.44E-03	5.01E-04	2.51E-03	1.83E-04	1.31E-05	2.22E-05	1.22E-04	3.35E-03
4.44E-04	2.08E-03	1.56E-04	1.07E-05	1.08E-04	1.08E-04	2.90E-03	4.44E-04	2.08E-03	1.56E-04	1.07E-05	1.73E-05	1.08E-04	2.81E-03
4.00E-04	1.75E-03	1.34E-04	8.87E-06	9.69E-05	9.69E-05	2.49E-03	4.00E-04	1.75E-03	1.34E-04	8.87E-06	1.43E-05	9.69E-05	2.41E-03
3.67E-04	1.52E-03	1.21E-04	7.73E-06	9.24E-05	9.24E-05	2.20E-03	3.67E-04	1.52E-03	1.21E-04	7.73E-06	1.28E-05	9.24E-05	2.12E-03
3.51E-04	1.44E-03	1.18E-04	7.56E-06	9.25E-05	9.25E-05	2.10E-03	3.51E-04	1.44E-03	1.18E-04	7.56E-06	1.30E-05	9.25E-05	2.02E-03
3.64E-04	1.59E-03	1.31E-04	8.92E-06	1.01E-04	1.01E-04	2.29E-03	3.64E-04	1.59E-03	1.31E-04	8.92E-06	1.48E-05	1.01E-04	2.21E-03
3.71E-04	1.70E-03	1.44E-04	1.02E-05	1.12E-04	1.12E-04	2.45E-03	3.71E-04	1.70E-03	1.44E-04	1.02E-05	1.66E-05	1.12E-04	2.36E-03
3.56E-04	1.61E-03	1.38E-04	9.55E-06	1.13E-04	1.13E-04	2.34E-03	3.56E-04	1.61E-03	1.38E-04	9.55E-06	1.60E-05	1.13E-04	2.24E-03
3.42E-04	1.52E-03	1.33E-04	9.07E-06	1.06E-04	1.06E-04	2.21E-03	3.42E-04	1.52E-03	1.33E-04	9.07E-06	1.43E-05	1.06E-04	2.12E-03
3.23E-04	1.38E-03	1.22E-04	8.13E-06	9.72E-05	9.72E-05	2.02E-03	3.23E-04	1.38E-03	1.22E-04	8.13E-06	1.26E-05	9.72E-05	1.94E-03
3.02E-04	1.23E-03	1.12E-04	7.21E-06	9.10E-05	9.10E-05	1.83E-03	3.02E-04	1.23E-03	1.12E-04	7.21E-06	1.18E-05	9.10E-05	1.75E-03
2.94E-04	1.18E-03	1.13E-04	7.16E-06	8.72E-05	8.72E-05	1.77E-03	2.94E-04	1.18E-03	1.13E-04	7.16E-06	1.14E-05	8.72E-05	1.69E-03
2.82E-04	1.10E-03	1.12E-04	6.81E-06	8.44E-05	8.44E-05	1.67E-03	2.82E-04	1.10E-03	1.12E-04	6.81E-06	1.07E-05	8.44E-05	1.59E-03
2.72E-04	1.05E-03	1.15E-04	6.79E-06	8.68E-05	8.68E-05	1.61E-03	2.72E-04	1.05E-03	1.15E-04	6.79E-06	1.07E-05	8.68E-05	1.54E-03
2.63E-04	9.82E-04	1.16E-04	6.82E-06	8.90E-05	8.90E-05	1.55E-03	2.63E-04	9.82E-04	1.16E-04	6.82E-06	1.07E-05	8.90E-05	1.47E-03
2.57E-04	9.54E-04	1.22E-04	7.18E-06	9.29E-05	9.29E-05	1.53E-03	2.57E-04	9.54E-04	1.22E-04	7.18E-06	1.10E-05	9.29E-05	1.44E-03
2.52E-04	9.27E-04	1.28E-04	7.55E-06	9.62E-05	9.62E-05	1.51E-03	2.52E-04	9.27E-04	1.28E-04	7.55E-06	1.16E-05	9.62E-05	1.42E-03
2.40E-04	8.45E-04	1.28E-04	7.34E-06	9.39E-05	9.39E-05	1.41E-03	2.40E-04	8.45E-04	1.28E-04	7.34E-06	1.16E-05	9.39E-05	1.33E-03
2.28E-04	7.66E-04	1.28E-04	7.22E-06	9.38E-05	9.38E-05	1.32E-03	2.28E-04	7.66E-04	1.28E-04	7.22E-06	1.17E-05	9.38E-05	1.23E-03
2.19E-04	7.13E-04	1.33E-04	7.32E-06	9.54E-05	9.54E-05	1.26E-03	2.19E-04	7.13E-04	1.33E-04	7.32E-06	1.19E-05	9.54E-05	1.18E-03
2.06E-04	6.27E-04	1.32E-04	7.12E-06	9.44E-05	9.44E-05	1.16E-03	2.06E-04	6.27E-04	1.32E-04	7.12E-06	1.17E-05	9.44E-05	1.08E-03
1.94E-04	5.45E-04	1.32E-04	6.95E-06	9.25E-05	9.25E-05	1.06E-03	1.94E-04	5.45E-04	1.32E-04	6.95E-06	1.16E-05	9.25E-05	9.83E-04
1.81E-04	4.62E-04	1.30E-04	6.75E-06	8.91E-05	8.91E-05	9.58E-04	1.81E-04	4.62E-04	1.30E-04	6.75E-06	1.12E-05	8.91E-05	8.80E-04
1.69E-04	3.89E-04	1.28E-04	6.59E-06	8.77E-05	8.77E-05	8.69E-04	1.69E-04	3.89E-04	1.28E-04	6.59E-06	1.09E-05	8.77E-05	7.92E-04
1.67E-04	3.84E-04	1.37E-04	7.12E-06	9.28E-05	9.28E-05	8.81E-04	1.67E-04	3.84E-04	1.37E-04	7.12E-06	1.16E-05	9.28E-05	8.00E-04
1.63E-04	3.66E-04	1.44E-04	7.48E-06	9.72E-05	9.72E-05	8.75E-04	1.63E-04	3.66E-04	1.44E-04	7.48E-06	1.22E-05	9.72E-05	7.90E-04
1.64E-04	3.70E-04	1.56E-04	8.14E-06	1.05E-04	1.05E-04	9.07E-04	1.64E-04	3.70E-04	1.56E-04	8.14E-06	1.34E-05	1.05E-04	8.15E-04
1.62E-04	3.64E-04	1.66E-04	8.73E-06	1.12E-04	1.12E-04	9.24E-04	1.62E-04	3.64E-04	1.66E-04	8.73E-06	1.45E-05	1.12E-04	8.27E-04
1.53E-04	3.16E-04	1.63E-04	8.53E-06	1.13E-04	1.13E-04	8.66E-04	1.53E-04	3.16E-04	1.63E-04	8.53E-06	1.46E-05	1.13E-04	7.68E-04
1.52E-04	3.12E-04	1.72E-04	9.07E-06	1.20E-04	1.20E-04	8.86E-04	1.52E-04	3.12E-04	1.72E-04	9.07E-06	1.57E-05	1.20E-04	7.81E-04
1.58E-04	3.47E-04	1.95E-04	1.04E-05	1.35E-04	1.35E-04	9.80E-04	1.58E-04	3.47E-04	1.95E-04	1.04E-05	1.81E-05	1.35E-04	8.63E-04
1.72E-04	4.39E-04	2.44E-04	1.35E-05	1.61E-04	1.61E-04	1.19E-03	1.72E-04	4.39E-04	2.44E-04	1.35E-05	2.32E-05	1.61E-04	1.05E-03
1.77E-04	4.71E-04	2.72E-04	1.53E-05	1.76E-04	1.76E-04	1.29E-03	1.77E-04	4.71E-04	2.72E-04	1.53E-05	2.65E-05	1.76E-04	1.14E-03
1.79E-04	4.88E-04	2.97E-04	1.70E-05	1.88E-04	1.88E-04	1.36E-03	1.79E-04	4.88E-04	2.97E-04	1.70E-05	2.97E-05	1.88E-04	1.20E-03
2.53E-04	1.09E-03	2.94E-04	1.61E-05	1.95E-04	1.95E-04	2.05E-03	2.53E-04	1.09E-03	2.94E-04	1.61E-05	2.64E-05	1.95E-04	1.88E-03
2.80E-04	1.32E-03	3.30E-04	1.77E-05	2.08E-04	2.08E-04	2.37E-03	2.80E-04	1.32E-03	3.30E-04	1.77E-05	2.82E-05	2.08E-04	2.18E-03

3.11E-04	1.59E-03	3.57E-04	1.90E-05	2.16E-04	2.16E-04	2.71E-03	3.11E-04	1.59E-03	3.57E-04	1.90E-05	3.05E-05	2.16E-04	2.52E-03
3.50E-04	1.97E-03	3.80E-04	2.04E-05	2.23E-04	2.23E-04	3.17E-03	3.50E-04	1.97E-03	3.80E-04	2.04E-05	3.37E-05	2.23E-04	2.98E-03
4.09E-04	2.53E-03	3.97E-04	2.18E-05	2.27E-04	2.27E-04	3.81E-03	4.09E-04	2.53E-03	3.97E-04	2.18E-05	3.69E-05	2.27E-04	3.62E-03
4.96E-04	3.31E-03	4.10E-04	2.30E-05	2.31E-04	2.31E-04	4.70E-03	4.96E-04	3.31E-03	4.10E-04	2.30E-05	3.88E-05	2.31E-04	4.50E-03
6.30E-04	4.45E-03	4.17E-04	2.40E-05	2.33E-04	2.33E-04	5.99E-03	6.30E-04	4.45E-03	4.17E-04	2.40E-05	3.94E-05	2.33E-04	5.79E-03
8.72E-04	6.37E-03	4.23E-04	2.48E-05	2.32E-04	2.32E-04	8.16E-03	8.72E-04	6.37E-03	4.23E-04	2.48E-05	3.98E-05	2.32E-04	7.96E-03
1.42E-03	1.06E-02	4.21E-04	2.52E-05	2.24E-04	2.24E-04	1.29E-02	1.42E-03	1.06E-02	4.21E-04	2.52E-05	3.99E-05	2.24E-04	1.27E-02
2.46E-03	1.83E-02	4.22E-04	2.57E-05	2.29E-04	2.29E-04	2.17E-02	2.46E-03	1.83E-02	4.22E-04	2.57E-05	3.98E-05	2.29E-04	2.15E-02
5.36E-03	3.41E-02	4.11E-04	2.59E-05	2.52E-04	2.52E-04	4.04E-02	5.36E-03	3.41E-02	4.11E-04	2.59E-05	3.97E-05	2.52E-04	4.02E-02
1.49E-02	7.55E-02	3.82E-04	2.49E-05	2.75E-04	2.75E-04	9.13E-02	1.49E-02	7.55E-02	3.82E-04	2.49E-05	3.88E-05	2.75E-04	9.11E-02
4.27E-03	2.72E-02	3.93E-04	2.34E-05	2.81E-04	2.81E-04	3.25E-02	4.27E-03	2.72E-02	3.93E-04	2.34E-05	3.64E-05	2.81E-04	3.22E-02
2.56E-03	1.75E-02	4.96E-04	2.41E-05	2.74E-04	2.74E-04	2.11E-02	2.56E-03	1.75E-02	4.96E-04	2.41E-05	3.54E-05	2.74E-04	2.09E-02
1.89E-03	1.32E-02	6.01E-04	2.95E-05	2.71E-04	2.71E-04	1.62E-02	1.89E-03	1.32E-02	6.01E-04	2.95E-05	4.29E-05	2.71E-04	1.60E-02
1.42E-03	9.81E-03	5.43E-04	3.42E-05	2.53E-04	2.53E-04	1.23E-02	1.42E-03	9.81E-03	5.43E-04	3.42E-05	5.67E-05	2.53E-04	1.21E-02
1.17E-03	7.84E-03	4.52E-04	3.41E-05	2.31E-04	2.31E-04	9.95E-03	1.17E-03	7.84E-03	4.52E-04	3.41E-05	5.89E-05	2.31E-04	9.78E-03
9.18E-04	5.79E-03	3.27E-04	2.65E-05	1.92E-04	1.92E-04	7.45E-03	9.18E-04	5.79E-03	3.27E-04	2.65E-05	4.70E-05	1.92E-04	7.30E-03
8.70E-04	5.60E-03	3.51E-04	2.62E-05	1.97E-04	1.97E-04	7.24E-03	8.70E-04	5.60E-03	3.51E-04	2.62E-05	4.03E-05	1.97E-04	7.08E-03
7.64E-04	4.75E-03	3.12E-04	2.29E-05	1.82E-04	1.82E-04	6.22E-03	7.64E-04	4.75E-03	3.12E-04	2.29E-05	3.71E-05	1.82E-04	6.07E-03
6.53E-04	3.79E-03	2.49E-04	1.90E-05	1.52E-04	1.52E-04	5.01E-03	6.53E-04	3.79E-03	2.49E-04	1.90E-05	2.97E-05	1.52E-04	4.89E-03
5.36E-04	2.80E-03	1.80E-04	1.27E-05	1.21E-04	1.21E-04	3.77E-03	5.36E-04	2.80E-03	1.80E-04	1.27E-05	2.12E-05	1.21E-04	3.67E-03
4.79E-04	2.37E-03	1.62E-04	1.09E-05	1.12E-04	1.12E-04	3.25E-03	4.79E-04	2.37E-03	1.62E-04	1.09E-05	1.80E-05	1.12E-04	3.15E-03
4.22E-04	1.93E-03	1.38E-04	8.86E-06	9.92E-05	9.92E-05	2.69E-03	4.22E-04	1.93E-03	1.38E-04	8.86E-06	1.46E-05	9.92E-05	2.61E-03
3.88E-04	1.69E-03	1.28E-04	8.04E-06	9.54E-05	9.54E-05	2.41E-03	3.88E-04	1.69E-03	1.28E-04	8.04E-06	1.33E-05	9.54E-05	2.33E-03
3.48E-04	1.40E-03	1.12E-04	6.89E-06	9.06E-05	9.06E-05	2.05E-03	3.48E-04	1.40E-03	1.12E-04	6.89E-06	1.20E-05	9.06E-05	1.97E-03
3.96E-04	1.87E-03	1.44E-04	9.93E-06	1.09E-04	1.09E-04	2.64E-03	3.96E-04	1.87E-03	1.44E-04	9.93E-06	1.67E-05	1.09E-04	2.55E-03
4.11E-04	2.06E-03	1.69E-04	1.22E-05	1.23E-04	1.23E-04	2.90E-03	4.11E-04	2.06E-03	1.69E-04	1.22E-05	1.98E-05	1.23E-04	2.80E-03
3.94E-04	1.95E-03	1.63E-04	1.16E-05	1.27E-04	1.27E-04	2.77E-03	3.94E-04	1.95E-03	1.63E-04	1.16E-05	1.92E-05	1.27E-04	2.66E-03
3.48E-04	1.57E-03	1.30E-04	8.68E-06	1.07E-04	1.07E-04	2.28E-03	3.48E-04	1.57E-03	1.30E-04	8.68E-06	1.40E-05	1.07E-04	2.18E-03
3.11E-04	1.29E-03	1.13E-04	7.13E-06	9.38E-05	9.38E-05	1.91E-03	3.11E-04	1.29E-03	1.13E-04	7.13E-06	1.15E-05	9.38E-05	1.82E-03
3.24E-04	1.42E-03	1.30E-04	8.33E-06	9.95E-05	9.95E-05	2.09E-03	3.24E-04	1.42E-03	1.30E-04	8.33E-06	1.34E-05	9.95E-05	2.00E-03
3.18E-04	1.40E-03	1.36E-04	8.57E-06	9.75E-05	9.75E-05	2.05E-03	3.18E-04	1.40E-03	1.36E-04	8.57E-06	1.31E-05	9.75E-05	1.97E-03
3.05E-04	1.30E-03	1.36E-04	8.27E-06	9.55E-05	9.55E-05	1.94E-03	3.05E-04	1.30E-03	1.36E-04	8.27E-06	1.28E-05	9.55E-05	1.86E-03
2.93E-04	1.23E-03	1.38E-04	8.32E-06	9.75E-05	9.75E-05	1.86E-03	2.93E-04	1.23E-03	1.38E-04	8.32E-06	1.26E-05	9.75E-05	1.78E-03
2.84E-04	1.17E-03	1.43E-04	8.66E-06	1.02E-04	1.02E-04	1.81E-03	2.84E-04	1.17E-03	1.43E-04	8.66E-06	1.31E-05	1.02E-04	1.72E-03
2.76E-04	1.11E-03	1.49E-04	8.97E-06	1.06E-04	1.06E-04	1.76E-03	2.76E-04	1.11E-03	1.49E-04	8.97E-06	1.36E-05	1.06E-04	1.66E-03
2.65E-04	1.04E-03	1.53E-04	9.05E-06	1.08E-04	1.08E-04	1.68E-03	2.65E-04	1.04E-03	1.53E-04	9.05E-06	1.38E-05	1.08E-04	1.59E-03
2.51E-04	9.33E-04	1.53E-04	8.77E-06	1.05E-04	1.05E-04	1.55E-03	2.51E-04	9.33E-04	1.53E-04	8.77E-06	1.36E-05	1.05E-04	1.46E-03
2.39E-04	8.51E-04	1.56E-04	8.76E-06	1.06E-04	1.06E-04	1.47E-03	2.39E-04	8.51E-04	1.56E-04	8.76E-06	1.38E-05	1.06E-04	1.37E-03
2.29E-04	7.81E-04	1.62E-04	8.83E-06	1.08E-04	1.08E-04	1.40E-03	2.29E-04	7.81E-04	1.62E-04	8.83E-06	1.40E-05	1.08E-04	1.30E-03
2.15E-04	6.81E-04	1.62E-04	8.64E-06	1.06E-04	1.06E-04	1.28E-03	2.15E-04	6.81E-04	1.62E-04	8.64E-06	1.37E-05	1.06E-04	1.19E-03
2.02E-04	5.91E-04	1.62E-04	8.54E-06	1.04E-04	1.04E-04	1.17E-03	2.02E-04	5.91E-04	1.62E-04	8.54E-06	1.36E-05	1.04E-04	1.08E-03
1.85E-04	4.77E-04	1.55E-04	8.04E-06	9.94E-05	9.94E-05	1.02E-03	1.85E-04	4.77E-04	1.55E-04	8.04E-06	1.28E-05	9.94E-05	9.36E-04
1.76E-04	4.28E-04	1.58E-04	8.20E-06	1.02E-04	1.02E-04	9.73E-04	1.76E-04	4.28E-04	1.58E-04	8.20E-06	1.31E-05	1.02E-04	8.85E-04
1.71E-04	3.98E-04	1.65E-04	8.55E-06	1.06E-04	1.06E-04	9.54E-04	1.71E-04	3.98E-04	1.65E-04	8.55E-06	1.37E-05	1.06E-04	8.62E-04
1.70E-04	3.97E-04	1.77E-04	9.28E-06	1.14E-04	1.14E-04	9.81E-04	1.70E-04	3.97E-04	1.77E-04	9.28E-06	1.50E-05	1.14E-04	8.83E-04
1.78E-04	4.48E-04	2.05E-04	1.10E-05	1.30E-04	1.30E-04	1.10E-03	1.78E-04	4.48E-04	2.05E-04	1.10E-05	1.79E-05	1.30E-04	9.90E-04
1.78E-04	4.52E-04	2.21E-04	1.20E-05	1.41E-04	1.41E-04	1.14E-03	1.78E-04	4.52E-04	2.21E-04	1.20E-05	1.98E-05	1.41E-04	1.02E-03
1.56E-04	3.25E-04	1.92E-04	1.02E-05	1.30E-04	1.30E-04	9.45E-04	1.56E-04	3.25E-04	1.92E-04	1.02E-05	1.75E-05	1.30E-04	8.32E-04
1.51E-04	3.01E-04	1.95E-04	1.04E-05	1.35E-04	1.35E-04	9.28E-04	1.51E-04	3.01E-04	1.95E-04	1.04E-05	1.82E-05	1.35E-04	8.11E-04
1.71E-04	4.15E-04	2.54E-04	1.40E-05	1.66E-04	1.66E-04	1.19E-03	1.71E-04	4.15E-04	2.54E-04	1.40E-05	2.42E-05	1.66E-04	1.04E-03
1.74E-04	4.40E-04	2.81E-04	1.57E-05	1.81E-04	1.81E-04	1.27E-03	1.74E-04	4.40E-04	2.81E-04	1.57E-05	2.74E-05	1.81E-04	1.12E-03
1.91E-04	5.53E-04	3.57E-04	2.07E-05	2.16E-04	2.16E-04	1.55E-03	1.91E-04	5.53E-04	3.57E-04	2.07E-05	3.62E-05	2.16E-04	1.37E-03
1.85E-04	5.14E-04	3.55E-04	2.05E-05	2.16E-04	2.16E-04	1.51E-03	1.85E-04	5.14E-04	3.55E-04	2.05E-05	3.63E-05	2.16E-04	1.33E-03
2.14E-04	8.58E-04	2.49E-04	1.49E-05	1.74E-04	1.74E-04	1.68E-03	2.14E-04	8.58E-04	2.49E-04	1.49E-05	2.44E-05	1.74E-04	1.53E-03

2.50E-04	1.16E-03	2.97E-04	1.68E-05	2.02E-04	2.02E-04	2.13E-03	2.50E-04	1.16E-03	2.97E-04	1.68E-05	2.75E-05	2.02E-04	1.96E-03
2.78E-04	1.45E-03	3.43E-04	1.86E-05	2.24E-04	2.24E-04	2.54E-03	2.78E-04	1.45E-03	3.43E-04	1.86E-05	2.99E-05	2.24E-04	2.34E-03
3.04E-04	1.75E-03	3.79E-04	2.03E-05	2.35E-04	2.35E-04	2.92E-03	3.04E-04	1.75E-03	3.79E-04	2.03E-05	3.21E-05	2.35E-04	2.72E-03
3.40E-04	2.13E-03	4.06E-04	2.17E-05	2.41E-04	2.41E-04	3.38E-03	3.40E-04	2.13E-03	4.06E-04	2.17E-05	3.47E-05	2.41E-04	3.18E-03
3.87E-04	2.62E-03	4.34E-04	2.34E-05	2.49E-04	2.49E-04	3.96E-03	3.87E-04	2.62E-03	4.34E-04	2.34E-05	3.84E-05	2.49E-04	3.75E-03
4.49E-04	3.23E-03	4.57E-04	2.51E-05	2.54E-04	2.54E-04	4.67E-03	4.49E-04	3.23E-03	4.57E-04	2.51E-05	4.18E-05	2.54E-04	4.45E-03
5.26E-04	4.00E-03	4.71E-04	2.65E-05	2.58E-04	2.58E-04	5.54E-03	5.26E-04	4.00E-03	4.71E-04	2.65E-05	4.39E-05	2.58E-04	5.32E-03
6.31E-04	5.02E-03	4.76E-04	2.76E-05	2.55E-04	2.55E-04	6.67E-03	6.31E-04	5.02E-03	4.76E-04	2.76E-05	4.47E-05	2.55E-04	6.46E-03
7.71E-04	6.38E-03	4.81E-04	2.85E-05	2.51E-04	2.51E-04	8.17E-03	7.71E-04	6.38E-03	4.81E-04	2.85E-05	4.51E-05	2.51E-04	7.96E-03
9.84E-04	8.34E-03	4.82E-04	2.92E-05	2.54E-04	2.54E-04	1.03E-02	9.84E-04	8.34E-03	4.82E-04	2.92E-05	4.52E-05	2.54E-04	1.01E-02
1.46E-03	1.18E-02	4.79E-04	3.00E-05	2.84E-04	2.84E-04	1.44E-02	1.46E-03	1.18E-02	4.79E-04	3.00E-05	4.52E-05	2.84E-04	1.41E-02
3.45E-03	2.22E-02	4.63E-04	3.03E-05	3.30E-04	3.30E-04	2.69E-02	3.45E-03	2.22E-02	4.63E-04	3.03E-05	4.48E-05	3.30E-04	2.66E-02
1.65E-02	8.21E-02	4.75E-04	2.89E-05	3.44E-04	3.44E-04	9.98E-02	1.65E-02	8.21E-02	4.75E-04	2.89E-05	4.30E-05	3.44E-04	9.95E-02
4.52E-03	2.97E-02	5.91E-04	2.88E-05	3.22E-04	3.22E-04	3.54E-02	4.52E-03	2.97E-02	5.91E-04	2.88E-05	4.10E-05	3.22E-04	3.52E-02
2.71E-03	1.92E-02	7.25E-04	3.49E-05	3.21E-04	3.21E-04	2.33E-02	2.71E-03	1.92E-02	7.25E-04	3.49E-05	4.91E-05	3.21E-04	2.30E-02
1.86E-03	1.33E-02	6.55E-04	4.03E-05	2.95E-04	2.95E-04	1.65E-02	1.86E-03	1.33E-02	6.55E-04	4.03E-05	6.58E-05	2.95E-04	1.62E-02
1.48E-03	1.06E-02	5.82E-04	4.18E-05	2.87E-04	2.87E-04	1.33E-02	1.48E-03	1.06E-02	5.82E-04	4.18E-05	7.22E-05	2.87E-04	1.31E-02
1.14E-03	7.79E-03	4.42E-04	3.44E-05	2.40E-04	2.40E-04	9.88E-03	1.14E-03	7.79E-03	4.42E-04	3.44E-05	5.91E-05	2.40E-04	9.70E-03
9.23E-04	6.02E-03	3.56E-04	2.72E-05	1.96E-04	1.96E-04	7.71E-03	9.23E-04	6.02E-03	3.56E-04	2.72E-05	4.19E-05	1.96E-04	7.56E-03
7.88E-04	4.95E-03	3.02E-04	2.30E-05	1.79E-04	1.79E-04	6.42E-03	7.88E-04	4.95E-03	3.02E-04	2.30E-05	3.69E-05	1.79E-04	6.28E-03
6.10E-04	3.36E-03	1.97E-04	1.43E-05	1.30E-04	1.30E-04	4.44E-03	6.10E-04	3.36E-03	1.97E-04	1.43E-05	2.29E-05	1.30E-04	4.34E-03
5.23E-04	2.69E-03	1.68E-04	1.11E-05	1.16E-04	1.16E-04	3.63E-03	5.23E-04	2.69E-03	1.68E-04	1.11E-05	1.87E-05	1.16E-04	3.53E-03
4.64E-04	2.25E-03	1.49E-04	9.55E-06	1.06E-04	1.06E-04	3.08E-03	4.64E-04	2.25E-03	1.49E-04	9.55E-06	1.59E-05	1.06E-04	2.99E-03
4.12E-04	1.87E-03	1.33E-04	8.33E-06	9.92E-05	9.92E-05	2.62E-03	4.12E-04	1.87E-03	1.33E-04	8.33E-06	1.40E-05	9.92E-05	2.54E-03
3.92E-04	1.76E-03	1.30E-04	8.21E-06	9.99E-05	9.99E-05	2.49E-03	3.92E-04	1.76E-03	1.30E-04	8.21E-06	1.41E-05	9.99E-05	2.41E-03
4.30E-04	2.18E-03	1.61E-04	1.12E-05	1.17E-04	1.17E-04	3.02E-03	4.30E-04	2.18E-03	1.61E-04	1.12E-05	1.88E-05	1.17E-04	2.92E-03
4.58E-04	2.52E-03	2.05E-04	1.53E-05	1.40E-04	1.40E-04	3.48E-03	4.58E-04	2.52E-03	2.05E-04	1.53E-05	2.47E-05	1.40E-04	3.36E-03
4.26E-04	2.27E-03	1.87E-04	1.35E-05	1.38E-04	1.38E-04	3.17E-03	4.26E-04	2.27E-03	1.87E-04	1.35E-05	2.19E-05	1.38E-04	3.05E-03
3.87E-04	1.93E-03	1.60E-04	1.11E-05	1.24E-04	1.24E-04	2.73E-03	3.87E-04	1.93E-03	1.60E-04	1.11E-05	1.72E-05	1.24E-04	2.63E-03
3.62E-04	1.73E-03	1.51E-04	9.97E-06	1.14E-04	1.14E-04	2.48E-03	3.62E-04	1.73E-03	1.51E-04	9.97E-06	1.54E-05	1.14E-04	2.38E-03
3.61E-04	1.75E-03	1.65E-04	1.09E-05	1.17E-04	1.17E-04	2.52E-03	3.61E-04	1.75E-03	1.65E-04	1.09E-05	1.67E-05	1.17E-04	2.42E-03
3.47E-04	1.65E-03	1.67E-04	1.07E-05	1.13E-04	1.13E-04	2.40E-03	3.47E-04	1.65E-03	1.67E-04	1.07E-05	1.58E-05	1.13E-04	2.31E-03
3.30E-04	1.53E-03	1.68E-04	1.04E-05	1.09E-04	1.09E-04	2.26E-03	3.30E-04	1.53E-03	1.68E-04	1.04E-05	1.53E-05	1.09E-04	2.16E-03
3.17E-04	1.43E-03	1.73E-04	1.07E-05	1.12E-04	1.12E-04	2.16E-03	3.17E-04	1.43E-03	1.73E-04	1.07E-05	1.54E-05	1.12E-04	2.06E-03
3.06E-04	1.35E-03	1.80E-04	1.11E-05	1.18E-04	1.18E-04	2.08E-03	3.06E-04	1.35E-03	1.80E-04	1.11E-05	1.61E-05	1.18E-04	1.98E-03
2.93E-04	1.26E-03	1.86E-04	1.13E-05	1.22E-04	1.22E-04	1.99E-03	2.93E-04	1.26E-03	1.86E-04	1.13E-05	1.66E-05	1.22E-04	1.89E-03
2.78E-04	1.15E-03	1.89E-04	1.12E-05	1.22E-04	1.22E-04	1.87E-03	2.78E-04	1.15E-03	1.89E-04	1.12E-05	1.66E-05	1.22E-04	1.77E-03
2.63E-04	1.03E-03	1.92E-04	1.09E-05	1.20E-04	1.20E-04	1.74E-03	2.63E-04	1.03E-03	1.92E-04	1.09E-05	1.64E-05	1.20E-04	1.63E-03
2.51E-04	9.46E-04	1.99E-04	1.11E-05	1.23E-04	1.23E-04	1.65E-03	2.51E-04	9.46E-04	1.99E-04	1.11E-05	1.68E-05	1.23E-04	1.55E-03
2.40E-04	8.62E-04	2.05E-04	1.13E-05	1.25E-04	1.25E-04	1.57E-03	2.40E-04	8.62E-04	2.05E-04	1.13E-05	1.71E-05	1.25E-04	1.46E-03
2.25E-04	7.52E-04	2.06E-04	1.12E-05	1.22E-04	1.22E-04	1.44E-03	2.25E-04	7.52E-04	2.06E-04	1.12E-05	1.67E-05	1.22E-04	1.33E-03
2.12E-04	6.61E-04	2.09E-04	1.12E-05	1.22E-04	1.22E-04	1.34E-03	2.12E-04	6.61E-04	2.09E-04	1.12E-05	1.69E-05	1.22E-04	1.23E-03
1.98E-04	5.57E-04	2.04E-04	1.08E-05	1.20E-04	1.20E-04	1.21E-03	1.98E-04	5.57E-04	2.04E-04	1.08E-05	1.66E-05	1.20E-04	1.11E-03
1.83E-04	4.70E-04	2.00E-04	1.05E-05	1.21E-04	1.21E-04	1.10E-03	1.83E-04	4.70E-04	2.00E-04	1.05E-05	1.63E-05	1.21E-04	1.00E-03
1.75E-04	4.17E-04	2.01E-04	1.06E-05	1.24E-04	1.24E-04	1.05E-03	1.75E-04	4.17E-04	2.01E-04	1.06E-05	1.69E-05	1.24E-04	9.44E-04
1.87E-04	4.98E-04	2.43E-04	1.31E-05	1.46E-04	1.46E-04	1.23E-03	1.87E-04	4.98E-04	2.43E-04	1.31E-05	2.11E-05	1.46E-04	1.11E-03
1.93E-04	5.43E-04	2.78E-04	1.53E-05	1.65E-04	1.65E-04	1.36E-03	1.93E-04	5.43E-04	2.78E-04	1.53E-05	2.47E-05	1.65E-04	1.22E-03
1.77E-04	4.41E-04	2.58E-04	1.41E-05	1.61E-04	1.61E-04	1.21E-03	1.77E-04	4.41E-04	2.58E-04	1.41E-05	2.34E-05	1.61E-04	1.08E-03
1.85E-04	4.94E-04	2.98E-04	1.66E-05	1.84E-04	1.84E-04	1.36E-03	1.85E-04	4.94E-04	2.98E-04	1.66E-05	2.79E-05	1.84E-04	1.21E-03
1.85E-04	4.98E-04	3.19E-04	1.79E-05	1.98E-04	1.98E-04	1.42E-03	1.85E-04	4.98E-04	3.19E-04	1.79E-05	3.07E-05	1.98E-04	1.25E-03
1.85E-04	4.94E-04	3.37E-04	1.90E-05	2.08E-04	2.08E-04	1.45E-03	1.85E-04	4.94E-04	3.37E-04	1.90E-05	3.32E-05	2.08E-04	1.27E-03
1.95E-04	5.66E-04	3.99E-04	2.32E-05	2.36E-04	2.36E-04	1.65E-03	1.95E-04	5.66E-04	3.99E-04	2.32E-05	4.05E-05	2.36E-04	1.46E-03
1.96E-04	5.75E-04	4.28E-04	2.51E-05	2.50E-04	2.50E-04	1.72E-03	1.96E-04	5.75E-04	4.28E-04	2.51E-05	4.44E-05	2.50E-04	1.52E-03
1.90E-04	5.34E-04	4.23E-04	2.47E-05	2.51E-04	2.51E-04	1.68E-03	1.90E-04	5.34E-04	4.23E-04	2.47E-05	4.42E-05	2.51E-04	1.47E-03

1.57E-04	4.52E-04	2.04E-04	1.31E-05	1.41E-04	1.41E-04	1.11E-03	1.57E-04	4.52E-04	2.04E-04	1.31E-05	2.18E-05	1.41E-04	9.89E-04
2.01E-04	8.59E-04	2.64E-04	1.63E-05	1.78E-04	1.78E-04	1.70E-03	2.01E-04	8.59E-04	2.64E-04	1.63E-05	2.61E-05	1.78E-04	1.54E-03
2.29E-04	1.15E-03	2.96E-04	1.77E-05	2.00E-04	2.00E-04	2.09E-03	2.29E-04	1.15E-03	2.96E-04	1.77E-05	2.83E-05	2.00E-04	1.92E-03
2.65E-04	1.54E-03	3.56E-04	2.00E-05	2.38E-04	2.38E-04	2.65E-03	2.65E-04	1.54E-03	3.56E-04	2.00E-05	3.17E-05	2.38E-04	2.45E-03
2.90E-04	1.82E-03	3.90E-04	2.12E-05	2.45E-04	2.45E-04	3.01E-03	2.90E-04	1.82E-03	3.90E-04	2.12E-05	3.36E-05	2.45E-04	2.80E-03
3.20E-04	2.14E-03	4.31E-04	2.31E-05	2.59E-04	2.59E-04	3.43E-03	3.20E-04	2.14E-03	4.31E-04	2.31E-05	3.63E-05	2.59E-04	3.21E-03
3.54E-04	2.49E-03	4.69E-04	2.51E-05	2.72E-04	2.72E-04	3.88E-03	3.54E-04	2.49E-03	4.69E-04	2.51E-05	3.99E-05	2.72E-04	3.65E-03
3.94E-04	2.91E-03	5.03E-04	2.71E-05	2.80E-04	2.80E-04	4.39E-03	3.94E-04	2.91E-03	5.03E-04	2.71E-05	4.41E-05	2.80E-04	4.16E-03
4.40E-04	3.40E-03	5.31E-04	2.92E-05	2.87E-04	2.87E-04	4.97E-03	4.40E-04	3.40E-03	5.31E-04	2.92E-05	4.79E-05	2.87E-04	4.73E-03
5.08E-04	4.03E-03	5.46E-04	3.09E-05	2.87E-04	2.87E-04	5.69E-03	5.08E-04	4.03E-03	5.46E-04	3.09E-05	5.03E-05	2.87E-04	5.46E-03
5.90E-04	4.92E-03	5.53E-04	3.23E-05	2.82E-04	2.82E-04	6.66E-03	5.90E-04	4.92E-03	5.53E-04	3.23E-05	5.13E-05	2.82E-04	6.43E-03
7.12E-04	6.10E-03	5.58E-04	3.35E-05	2.84E-04	2.84E-04	7.97E-03	7.12E-04	6.10E-03	5.58E-04	3.35E-05	5.16E-05	2.84E-04	7.74E-03
9.18E-04	7.77E-03	5.59E-04	3.45E-05	3.16E-04	3.16E-04	9.91E-03	9.18E-04	7.77E-03	5.59E-04	3.45E-05	5.18E-05	3.16E-04	9.65E-03
1.37E-03	1.12E-02	5.40E-04	3.49E-05	3.68E-04	3.68E-04	1.39E-02	1.37E-03	1.12E-02	5.40E-04	3.49E-05	5.16E-05	3.68E-04	1.36E-02
3.25E-03	2.21E-02	5.40E-04	3.38E-05	3.83E-04	3.83E-04	2.67E-02	3.25E-03	2.21E-02	5.40E-04	3.38E-05	4.99E-05	3.83E-04	2.63E-02
1.86E-02	9.03E-02	7.07E-04	3.56E-05	3.85E-04	3.85E-04	1.10E-01	1.86E-02	9.03E-02	7.07E-04	3.56E-05	4.86E-05	3.85E-04	1.10E-01
4.74E-03	3.12E-02	8.63E-04	4.17E-05	3.80E-04	3.80E-04	3.76E-02	4.74E-03	3.12E-02	8.63E-04	4.17E-05	5.66E-05	3.80E-04	3.73E-02
2.63E-03	1.86E-02	7.96E-04	4.76E-05	3.50E-04	3.50E-04	2.28E-02	2.63E-03	1.86E-02	7.96E-04	4.76E-05	7.63E-05	3.50E-04	2.25E-02
1.82E-03	1.30E-02	6.64E-04	4.82E-05	3.25E-04	3.25E-04	1.62E-02	1.82E-03	1.30E-02	6.64E-04	4.82E-05	8.30E-05	3.25E-04	1.59E-02
1.44E-03	1.04E-02	6.07E-04	4.40E-05	2.98E-04	2.98E-04	1.31E-02	1.44E-03	1.04E-02	6.07E-04	4.40E-05	7.18E-05	2.98E-04	1.28E-02
1.00E-03	6.52E-03	3.75E-04	2.92E-05	2.08E-04	2.08E-04	8.34E-03	1.00E-03	6.52E-03	3.75E-04	2.92E-05	4.55E-05	2.08E-04	8.18E-03
8.56E-04	5.50E-03	3.39E-04	2.67E-05	1.99E-04	1.99E-04	7.12E-03	8.56E-04	5.50E-03	3.39E-04	2.67E-05	4.20E-05	1.99E-04	6.96E-03
7.38E-04	4.65E-03	3.02E-04	2.31E-05	1.81E-04	1.81E-04	6.07E-03	7.38E-04	4.65E-03	3.02E-04	2.31E-05	3.73E-05	1.81E-04	5.93E-03
5.88E-04	3.33E-03	2.12E-04	1.49E-05	1.37E-04	1.37E-04	4.42E-03	5.88E-04	3.33E-03	2.12E-04	1.49E-05	2.45E-05	1.37E-04	4.31E-03
5.02E-04	2.63E-03	1.75E-04	1.17E-05	1.20E-04	1.20E-04	3.56E-03	5.02E-04	2.63E-03	1.75E-04	1.17E-05	1.91E-05	1.20E-04	3.46E-03
4.90E-04	2.64E-03	1.82E-04	1.27E-05	1.25E-04	1.25E-04	3.58E-03	4.90E-04	2.64E-03	1.82E-04	1.27E-05	2.04E-05	1.25E-04	3.47E-03
4.96E-04	2.83E-03	2.09E-04	1.54E-05	1.41E-04	1.41E-04	3.83E-03	4.96E-04	2.83E-03	2.09E-04	1.54E-05	2.54E-05	1.41E-04	3.71E-03
5.01E-04	2.96E-03	2.44E-04	1.86E-05	1.56E-04	1.56E-04	4.03E-03	5.01E-04	2.96E-03	2.44E-04	1.86E-05	3.01E-05	1.56E-04	3.91E-03
4.73E-04	2.74E-03	2.38E-04	1.78E-05	1.61E-04	1.61E-04	3.79E-03	4.73E-04	2.74E-03	2.38E-04	1.78E-05	2.79E-05	1.61E-04	3.66E-03
4.34E-04	2.41E-03	2.13E-04	1.56E-05	1.52E-04	1.52E-04	3.38E-03	4.34E-04	2.41E-03	2.13E-04	1.56E-05	2.35E-05	1.52E-04	3.25E-03
4.13E-04	2.24E-03	2.12E-04	1.49E-05	1.45E-04	1.45E-04	3.17E-03	4.13E-04	2.24E-03	2.12E-04	1.49E-05	2.20E-05	1.45E-04	3.05E-03
3.94E-04	2.09E-03	2.13E-04	1.44E-05	1.42E-04	1.42E-04	3.00E-03	3.94E-04	2.09E-03	2.13E-04	1.44E-05	2.11E-05	1.42E-04	2.87E-03
3.70E-04	1.89E-03	2.08E-04	1.35E-05	1.31E-04	1.31E-04	2.74E-03	3.70E-04	1.89E-03	2.08E-04	1.35E-05	1.93E-05	1.31E-04	2.63E-03
3.54E-04	1.77E-03	2.15E-04	1.38E-05	1.27E-04	1.27E-04	2.60E-03	3.54E-04	1.77E-03	2.15E-04	1.38E-05	1.88E-05	1.27E-04	2.49E-03
3.38E-04	1.63E-03	2.21E-04	1.40E-05	1.31E-04	1.31E-04	2.47E-03	3.38E-04	1.63E-03	2.21E-04	1.40E-05	1.93E-05	1.31E-04	2.35E-03
3.24E-04	1.52E-03	2.31E-04	1.43E-05	1.37E-04	1.37E-04	2.36E-03	3.24E-04	1.52E-03	2.31E-04	1.43E-05	2.02E-05	1.37E-04	2.24E-03
3.09E-04	1.40E-03	2.40E-04	1.45E-05	1.41E-04	1.41E-04	2.24E-03	3.09E-04	1.40E-03	2.40E-04	1.45E-05	2.04E-05	1.41E-04	2.12E-03
2.92E-04	1.26E-03	2.45E-04	1.42E-05	1.41E-04	1.41E-04	2.09E-03	2.92E-04	1.26E-03	2.45E-04	1.42E-05	2.03E-05	1.41E-04	1.97E-03
2.77E-04	1.14E-03	2.53E-04	1.43E-05	1.42E-04	1.42E-04	1.97E-03	2.77E-04	1.14E-03	2.53E-04	1.43E-05	2.07E-05	1.42E-04	1.85E-03
2.64E-04	1.04E-03	2.63E-04	1.47E-05	1.46E-04	1.46E-04	1.87E-03	2.64E-04	1.04E-03	2.63E-04	1.47E-05	2.09E-05	1.46E-04	1.75E-03
2.51E-04	9.43E-04	2.71E-04	1.51E-05	1.48E-04	1.48E-04	1.77E-03	2.51E-04	9.43E-04	2.71E-04	1.51E-05	2.15E-05	1.48E-04	1.65E-03
2.34E-04	8.19E-04	2.70E-04	1.49E-05	1.45E-04	1.45E-04	1.63E-03	2.34E-04	8.19E-04	2.70E-04	1.49E-05	2.14E-05	1.45E-04	1.50E-03
2.18E-04	6.98E-04	2.65E-04	1.44E-05	1.43E-04	1.43E-04	1.48E-03	2.18E-04	6.98E-04	2.65E-04	1.44E-05	2.11E-05	1.43E-04	1.36E-03
2.07E-04	6.18E-04	2.67E-04	1.44E-05	1.47E-04	1.47E-04	1.40E-03	2.07E-04	6.18E-04	2.67E-04	1.44E-05	2.16E-05	1.47E-04	1.28E-03
1.94E-04	5.29E-04	2.61E-04	1.40E-05	1.49E-04	1.49E-04	1.30E-03	1.94E-04	5.29E-04	2.61E-04	1.40E-05	2.19E-05	1.49E-04	1.17E-03
1.97E-04	5.47E-04	2.90E-04	1.58E-05	1.65E-04	1.65E-04	1.38E-03	1.97E-04	5.47E-04	2.90E-04	1.58E-05	2.49E-05	1.65E-04	1.24E-03
1.96E-04	5.51E-04	3.14E-04	1.73E-05	1.80E-04	1.80E-04	1.44E-03	1.96E-04	5.51E-04	3.14E-04	1.73E-05	2.78E-05	1.80E-04	1.29E-03
2.01E-04	5.86E-04	3.52E-04	1.99E-05	2.03E-04	2.03E-04	1.56E-03	2.01E-04	5.86E-04	3.52E-04	1.99E-05	3.23E-05	2.03E-04	1.39E-03
2.07E-04	6.28E-04	3.99E-04	2.30E-05	2.29E-04	2.29E-04	1.71E-03	2.07E-04	6.28E-04	3.99E-04	2.30E-05	3.80E-05	2.29E-04	1.52E-03
1.98E-04	5.64E-04	3.91E-04	2.24E-05	2.31E-04	2.31E-04	1.64E-03	1.98E-04	5.64E-04	3.91E-04	2.24E-05	3.81E-05	2.31E-04	1.44E-03
2.03E-04	6.02E-04	4.39E-04	2.56E-05	2.54E-04	2.54E-04	1.78E-03	2.03E-04	6.02E-04	4.39E-04	2.56E-05	4.41E-05	2.54E-04	1.57E-03
2.07E-04	6.29E-04	4.84E-04	2.86E-05	2.75E-04	2.75E-04	1.90E-03	2.07E-04	6.29E-04	4.84E-04	2.86E-05	5.00E-05	2.75E-04	1.67E-03
2.06E-04	6.22E-04	5.09E-04	3.02E-05	2.87E-04	2.87E-04	1.94E-03	2.06E-04	6.22E-04	5.09E-04	3.02E-05	5.33E-05	2.87E-04	1.71E-03
2.02E-04	5.91E-04	5.13E-04	3.03E-05	2.93E-04	2.93E-04	1.92E-03	2.02E-04	5.91E-04	5.13E-04	3.03E-05	5.41E-05	2.93E-04	1.68E-03

1.97E-04	5.61E-04	5.16E-04	3.04E-05	2.99E-04	2.99E-04	1.90E-03	1.97E-04	5.61E-04	5.16E-04	3.04E-05	5.44E-05	2.99E-04	1.66E-03
1.62E-04	5.55E-04	2.52E-04	1.63E-05	1.65E-04	1.65E-04	1.32E-03	1.62E-04	5.55E-04	2.52E-04	1.63E-05	2.87E-05	1.65E-04	1.18E-03
1.81E-04	7.38E-04	2.81E-04	1.79E-05	1.80E-04	1.80E-04	1.58E-03	1.81E-04	7.38E-04	2.81E-04	1.79E-05	3.02E-05	1.80E-04	1.43E-03
2.06E-04	1.02E-03	3.21E-04	1.99E-05	2.04E-04	2.04E-04	1.97E-03	2.06E-04	1.02E-03	3.21E-04	1.99E-05	3.21E-05	2.04E-04	1.80E-03
2.32E-04	1.29E-03	3.59E-04	2.14E-05	2.33E-04	2.33E-04	2.37E-03	2.32E-04	1.29E-03	3.59E-04	2.14E-05	3.36E-05	2.33E-04	2.17E-03
2.38E-04	1.39E-03	3.50E-04	2.10E-05	2.28E-04	2.28E-04	2.45E-03	2.38E-04	1.39E-03	3.50E-04	2.10E-05	3.30E-05	2.28E-04	2.26E-03
2.70E-04	1.73E-03	4.03E-04	2.28E-05	2.56E-04	2.56E-04	2.94E-03	2.70E-04	1.73E-03	4.03E-04	2.28E-05	3.59E-05	2.56E-04	2.72E-03
2.98E-04	2.02E-03	4.66E-04	2.55E-05	2.87E-04	2.87E-04	3.39E-03	2.98E-04	2.02E-03	4.66E-04	2.55E-05	3.90E-05	2.87E-04	3.14E-03
3.25E-04	2.30E-03	5.09E-04	2.75E-05	2.99E-04	2.99E-04	3.76E-03	3.25E-04	2.30E-03	5.09E-04	2.75E-05	4.21E-05	2.99E-04	3.50E-03
3.55E-04	2.61E-03	5.51E-04	2.96E-05	3.10E-04	3.10E-04	4.16E-03	3.55E-04	2.61E-03	5.51E-04	2.96E-05	4.63E-05	3.10E-04	3.90E-03
3.92E-04	2.97E-03	5.94E-04	3.20E-05	3.19E-04	3.19E-04	4.63E-03	3.92E-04	2.97E-03	5.94E-04	3.20E-05	5.12E-05	3.19E-04	4.36E-03
4.40E-04	3.45E-03	6.26E-04	3.44E-05	3.23E-04	3.23E-04	5.19E-03	4.40E-04	3.45E-03	6.26E-04	3.44E-05	5.51E-05	3.23E-04	4.92E-03
4.94E-04	4.06E-03	6.45E-04	3.67E-05	3.22E-04	3.22E-04	5.88E-03	4.94E-04	4.06E-03	6.45E-04	3.67E-05	5.81E-05	3.22E-04	5.61E-03
5.71E-04	4.84E-03	6.56E-04	3.86E-05	3.24E-04	3.24E-04	6.76E-03	5.71E-04	4.84E-03	6.56E-04	3.86E-05	5.96E-05	3.24E-04	6.49E-03
6.89E-04	5.87E-03	6.61E-04	4.00E-05	3.57E-04	3.57E-04	7.97E-03	6.89E-04	5.87E-03	6.61E-04	4.00E-05	6.00E-05	3.57E-04	7.67E-03
9.01E-04	7.61E-03	6.49E-04	4.09E-05	4.22E-04	4.22E-04	1.00E-02	9.01E-04	7.61E-03	6.49E-04	4.09E-05	6.00E-05	4.22E-04	9.68E-03
1.33E-03	1.07E-02	6.73E-04	4.14E-05	4.68E-04	4.68E-04	1.37E-02	1.33E-03	1.07E-02	6.73E-04	4.14E-05	5.91E-05	4.68E-04	1.33E-02
2.93E-03	1.95E-02	8.36E-04	4.24E-05	4.50E-04	4.50E-04	2.42E-02	2.93E-03	1.95E-02	8.36E-04	4.24E-05	5.77E-05	4.50E-04	2.38E-02
2.21E-02	1.12E-01	1.00E-03	4.85E-05	4.22E-04	4.22E-04	1.36E-01	2.21E-02	1.12E-01	1.00E-03	4.85E-05	6.52E-05	4.22E-04	1.36E-01
4.87E-03	3.24E-02	9.87E-04	5.72E-05	4.33E-04	4.33E-04	3.92E-02	4.87E-03	3.24E-02	9.87E-04	5.72E-05	8.63E-05	4.33E-04	3.89E-02
2.67E-03	1.91E-02	8.67E-04	5.95E-05	4.11E-04	4.11E-04	2.35E-02	2.67E-03	1.91E-02	8.67E-04	5.95E-05	9.83E-05	4.11E-04	2.32E-02
1.82E-03	1.32E-02	7.58E-04	5.38E-05	3.49E-04	3.49E-04	1.65E-02	1.82E-03	1.32E-02	7.58E-04	5.38E-05	8.32E-05	3.49E-04	1.62E-02
1.31E-03	9.27E-03	6.07E-04	4.43E-05	2.95E-04	2.95E-04	1.18E-02	1.31E-03	9.27E-03	6.07E-04	4.43E-05	6.75E-05	2.95E-04	1.16E-02
9.64E-04	6.46E-03	4.36E-04	3.44E-05	2.40E-04	2.40E-04	8.37E-03	9.64E-04	6.46E-03	4.36E-04	3.44E-05	5.40E-05	2.40E-04	8.19E-03
7.79E-04	5.03E-03	3.43E-04	2.67E-05	2.00E-04	2.00E-04	6.58E-03	7.79E-04	5.03E-03	3.43E-04	2.67E-05	4.27E-05	2.00E-04	6.43E-03
6.39E-04	3.88E-03	2.66E-04	1.99E-05	1.63E-04	1.63E-04	5.13E-03	6.39E-04	3.88E-03	2.66E-04	1.99E-05	3.15E-05	1.63E-04	5.00E-03
5.82E-04	3.51E-03	2.57E-04	1.93E-05	1.58E-04	1.58E-04	4.68E-03	5.82E-04	3.51E-03	2.57E-04	1.93E-05	2.93E-05	1.58E-04	4.55E-03
5.72E-04	3.59E-03	2.88E-04	2.24E-05	1.78E-04	1.78E-04	4.83E-03	5.72E-04	3.59E-03	2.88E-04	2.24E-05	3.52E-05	1.78E-04	4.68E-03
5.35E-04	3.33E-03	2.80E-04	2.18E-05	1.74E-04	1.74E-04	4.52E-03	5.35E-04	3.33E-03	2.80E-04	2.18E-05	3.54E-05	1.74E-04	4.38E-03
5.10E-04	3.15E-03	2.94E-04	2.28E-05	1.83E-04	1.83E-04	4.35E-03	5.10E-04	3.15E-03	2.94E-04	2.28E-05	3.43E-05	1.83E-04	4.20E-03
4.60E-04	2.71E-03	2.59E-04	1.90E-05	1.72E-04	1.72E-04	3.79E-03	4.60E-04	2.71E-03	2.59E-04	1.90E-05	2.84E-05	1.72E-04	3.65E-03
4.43E-04	2.59E-03	2.73E-04	1.96E-05	1.74E-04	1.74E-04	3.67E-03	4.43E-04	2.59E-03	2.73E-04	1.96E-05	2.77E-05	1.74E-04	3.52E-03
4.19E-04	2.38E-03	2.74E-04	1.88E-05	1.69E-04	1.69E-04	3.42E-03	4.19E-04	2.38E-03	2.74E-04	1.88E-05	2.62E-05	1.69E-04	3.28E-03
3.91E-04	2.13E-03	2.68E-04	1.79E-05	1.53E-04	1.53E-04	3.11E-03	3.91E-04	2.13E-03	2.68E-04	1.79E-05	2.35E-05	1.53E-04	2.98E-03
3.72E-04	1.96E-03	2.78E-04	1.82E-05	1.49E-04	1.49E-04	2.92E-03	3.72E-04	1.96E-03	2.78E-04	1.82E-05	2.34E-05	1.49E-04	2.80E-03
3.55E-04	1.81E-03	2.93E-04	1.86E-05	1.56E-04	1.56E-04	2.79E-03	3.55E-04	1.81E-03	2.93E-04	1.86E-05	2.49E-05	1.56E-04	2.65E-03
3.38E-04	1.65E-03	3.06E-04	1.88E-05	1.62E-04	1.62E-04	2.64E-03	3.38E-04	1.65E-03	3.06E-04	1.88E-05	2.53E-05	1.62E-04	2.50E-03
3.23E-04	1.52E-03	3.23E-04	1.92E-05	1.68E-04	1.68E-04	2.52E-03	3.23E-04	1.52E-03	3.23E-04	1.92E-05	2.57E-05	1.68E-04	2.38E-03
3.06E-04	1.38E-03	3.35E-04	1.94E-05	1.69E-04	1.69E-04	2.38E-03	3.06E-04	1.38E-03	3.35E-04	1.94E-05	2.62E-05	1.69E-04	2.23E-03
2.93E-04	1.26E-03	3.52E-04	2.02E-05	1.75E-04	1.75E-04	2.28E-03	2.93E-04	1.26E-03	3.52E-04	2.02E-05	2.69E-05	1.75E-04	2.13E-03
2.80E-04	1.15E-03	3.64E-04	2.10E-05	1.80E-04	1.80E-04	2.17E-03	2.80E-04	1.15E-03	3.64E-04	2.10E-05	2.80E-05	1.80E-04	2.02E-03
2.64E-04	1.02E-03	3.67E-04	2.09E-05	1.80E-04	1.80E-04	2.03E-03	2.64E-04	1.02E-03	3.67E-04	2.09E-05	2.86E-05	1.80E-04	1.88E-03
2.48E-04	8.98E-04	3.67E-04	2.06E-05	1.79E-04	1.79E-04	1.89E-03	2.48E-04	8.98E-04	3.67E-04	2.06E-05	2.92E-05	1.79E-04	1.74E-03
2.33E-04	7.90E-04	3.65E-04	2.04E-05	1.82E-04	1.82E-04	1.77E-03	2.33E-04	7.90E-04	3.65E-04	2.04E-05	2.94E-05	1.82E-04	1.62E-03
2.22E-04	7.09E-04	3.68E-04	2.05E-05	1.88E-04	1.88E-04	1.70E-03	2.22E-04	7.09E-04	3.68E-04	2.05E-05	3.05E-05	1.88E-04	1.54E-03
2.15E-04	6.57E-04	3.77E-04	2.11E-05	1.99E-04	1.99E-04	1.67E-03	2.15E-04	6.57E-04	3.77E-04	2.11E-05	3.24E-05	1.99E-04	1.50E-03
2.17E-04	6.74E-04	4.16E-04	2.37E-05	2.21E-04	2.21E-04	1.77E-03	2.17E-04	6.74E-04	4.16E-04	2.37E-05	3.71E-05	2.21E-04	1.59E-03
2.14E-04	6.55E-04	4.37E-04	2.51E-05	2.37E-04	2.37E-04	1.81E-03	2.14E-04	6.55E-04	4.37E-04	2.51E-05	4.05E-05	2.37E-04	1.61E-03
2.17E-04	6.76E-04	4.81E-04	2.81E-05	2.63E-04	2.63E-04	1.93E-03	2.17E-04	6.76E-04	4.81E-04	2.81E-05	4.65E-05	2.63E-04	1.71E-03
2.21E-04	6.98E-04	5.30E-04	3.14E-05	2.90E-04	2.90E-04	2.06E-03	2.21E-04	6.98E-04	5.30E-04	3.14E-05	5.30E-05	2.90E-04	1.82E-03
2.17E-04	6.70E-04	5.44E-04	3.23E-05	3.00E-04	3.00E-04	2.06E-03	2.17E-04	6.70E-04	5.44E-04	3.23E-05	5.57E-05	3.00E-04	1.82E-03
2.16E-04	6.64E-04	5.74E-04	3.42E-05	3.14E-04	3.14E-04	2.12E-03	2.16E-04	6.64E-04	5.74E-04	3.42E-05	5.97E-05	3.14E-04	1.86E-03
2.19E-04	6.76E-04	6.19E-04	3.73E-05	3.37E-04	3.37E-04	2.22E-03	2.19E-04	6.76E-04	6.19E-04	3.73E-05	6.57E-05	3.37E-04	1.95E-03
2.14E-04	6.47E-04	6.27E-04	3.77E-05	3.45E-04	3.45E-04	2.22E-03	2.14E-04	6.47E-04	6.27E-04	3.77E-05	6.69E-05	3.45E-04	1.94E-03

2.08E-04	6.09E-04	6.22E-04	3.72E-05	3.49E-04	3.49E-04	2.17E-03	2.08E-04	6.09E-04	6.22E-04	3.72E-05	6.66E-05	3.49E-04	1.89E-03
2.02E-04	5.72E-04	6.15E-04	3.66E-05	3.53E-04	3.53E-04	2.13E-03	2.02E-04	5.72E-04	6.15E-04	3.66E-05	6.59E-05	3.53E-04	1.85E-03
1.58E-04	5.43E-04	2.79E-04	1.74E-05	1.76E-04	1.76E-04	1.35E-03	1.58E-04	5.43E-04	2.79E-04	1.74E-05	3.21E-05	1.76E-04	1.21E-03
1.83E-04	7.93E-04	3.40E-04	2.08E-05	2.09E-04	2.09E-04	1.75E-03	1.83E-04	7.93E-04	3.40E-04	2.08E-05	3.79E-05	2.09E-04	1.58E-03
1.89E-04	8.79E-04	3.47E-04	2.14E-05	2.13E-04	2.13E-04	1.86E-03	1.89E-04	8.79E-04	3.47E-04	2.14E-05	3.84E-05	2.13E-04	1.69E-03
1.98E-04	9.79E-04	3.57E-04	2.22E-05	2.18E-04	2.18E-04	1.99E-03	1.98E-04	9.79E-04	3.57E-04	2.22E-05	3.82E-05	2.18E-04	1.81E-03
1.90E-04	9.26E-04	3.29E-04	2.12E-05	2.04E-04	2.04E-04	1.88E-03	1.90E-04	9.26E-04	3.29E-04	2.12E-05	3.50E-05	2.04E-04	1.71E-03
2.04E-04	1.10E-03	3.49E-04	2.23E-05	2.18E-04	2.18E-04	2.11E-03	2.04E-04	1.10E-03	3.49E-04	2.23E-05	3.55E-05	2.18E-04	1.93E-03
2.43E-04	1.52E-03	4.18E-04	2.52E-05	2.60E-04	2.60E-04	2.73E-03	2.43E-04	1.52E-03	4.18E-04	2.52E-05	3.92E-05	2.60E-04	2.51E-03
2.77E-04	1.85E-03	4.85E-04	2.75E-05	2.97E-04	2.97E-04	3.24E-03	2.77E-04	1.85E-03	4.85E-04	2.75E-05	4.21E-05	2.97E-04	2.98E-03
3.03E-04	2.11E-03	5.46E-04	3.00E-05	3.22E-04	3.22E-04	3.63E-03	3.03E-04	2.11E-03	5.46E-04	3.00E-05	4.52E-05	3.22E-04	3.36E-03
3.29E-04	2.36E-03	5.98E-04	3.24E-05	3.37E-04	3.37E-04	4.00E-03	3.29E-04	2.36E-03	5.98E-04	3.24E-05	4.90E-05	3.37E-04	3.71E-03
3.60E-04	2.67E-03	6.53E-04	3.51E-05	3.49E-04	3.49E-04	4.42E-03	3.60E-04	2.67E-03	6.53E-04	3.51E-05	5.43E-05	3.49E-04	4.12E-03
3.95E-04	3.06E-03	6.95E-04	3.76E-05	3.49E-04	3.49E-04	4.88E-03	3.95E-04	3.06E-03	6.95E-04	3.76E-05	6.04E-05	3.49E-04	4.59E-03
4.34E-04	3.50E-03	7.51E-04	4.13E-05	3.66E-04	3.66E-04	5.46E-03	4.34E-04	3.50E-03	7.51E-04	4.13E-05	6.53E-05	3.66E-04	5.16E-03
4.91E-04	4.07E-03	7.77E-04	4.43E-05	3.70E-04	3.70E-04	6.12E-03	4.91E-04	4.07E-03	7.77E-04	4.43E-05	6.89E-05	3.70E-04	5.82E-03
5.69E-04	4.83E-03	7.87E-04	4.67E-05	4.00E-04	4.00E-04	7.04E-03	5.69E-04	4.83E-03	7.87E-04	4.67E-05	7.04E-05	4.00E-04	6.71E-03
6.88E-04	5.87E-03	7.85E-04	4.84E-05	4.80E-04	4.80E-04	8.35E-03	6.88E-04	5.87E-03	7.85E-04	4.84E-05	7.07E-05	4.80E-04	7.94E-03
8.89E-04	7.56E-03	8.01E-04	4.93E-05	5.29E-04	5.29E-04	1.04E-02	8.89E-04	7.56E-03	8.01E-04	4.93E-05	7.01E-05	5.29E-04	9.89E-03
1.30E-03	1.06E-02	9.97E-04	5.06E-05	5.21E-04	5.21E-04	1.39E-02	1.30E-03	1.06E-02	9.97E-04	5.06E-05	6.81E-05	5.21E-04	1.35E-02
2.83E-03	1.89E-02	1.21E-03	5.77E-05	5.05E-04	5.05E-04	2.40E-02	2.83E-03	1.89E-02	1.21E-03	5.77E-05	7.48E-05	5.05E-04	2.36E-02
2.50E-02	9.36E-02	1.18E-03	6.81E-05	5.13E-04	5.13E-04	1.21E-01	2.50E-02	9.36E-02	1.18E-03	6.81E-05	1.01E-04	5.13E-04	1.20E-01
4.56E-03	3.04E-02	1.07E-03	7.17E-05	4.75E-04	4.75E-04	3.71E-02	4.56E-03	3.04E-02	1.07E-03	7.17E-05	1.13E-04	4.75E-04	3.67E-02
2.20E-03	1.56E-02	8.84E-04	6.37E-05	4.00E-04	4.00E-04	1.96E-02	2.20E-03	1.56E-02	8.84E-04	6.37E-05	9.62E-05	4.00E-04	1.92E-02
1.44E-03	1.03E-02	7.48E-04	5.50E-05	3.49E-04	3.49E-04	1.32E-02	1.44E-03	1.03E-02	7.48E-04	5.50E-05	8.21E-05	3.49E-04	1.30E-02
9.93E-04	6.89E-03	5.37E-04	4.27E-05	2.81E-04	2.81E-04	9.02E-03	9.93E-04	6.89E-03	5.37E-04	4.27E-05	6.78E-05	2.81E-04	8.81E-03
7.60E-04	4.98E-03	3.84E-04	3.03E-05	2.11E-04	2.11E-04	6.58E-03	7.60E-04	4.98E-03	3.84E-04	3.03E-05	4.66E-05	2.11E-04	6.41E-03
6.50E-04	4.15E-03	3.33E-04	2.64E-05	1.91E-04	1.91E-04	5.54E-03	6.50E-04	4.15E-03	3.33E-04	2.64E-05	3.96E-05	1.91E-04	5.39E-03
6.46E-04	4.35E-03	4.01E-04	3.31E-05	2.33E-04	2.33E-04	5.90E-03	6.46E-04	4.35E-03	4.01E-04	3.31E-05	5.01E-05	2.33E-04	5.71E-03
5.38E-04	3.37E-03	3.04E-04	2.29E-05	1.81E-04	1.81E-04	4.60E-03	5.38E-04	3.37E-03	3.04E-04	2.29E-05	3.64E-05	1.81E-04	4.46E-03
5.49E-04	3.58E-03	3.81E-04	3.07E-05	2.15E-04	2.15E-04	4.97E-03	5.49E-04	3.58E-03	3.81E-04	3.07E-05	4.51E-05	2.15E-04	4.80E-03
4.88E-04	3.02E-03	3.35E-04	2.48E-05	2.01E-04	2.01E-04	4.27E-03	4.88E-04	3.02E-03	3.35E-04	2.48E-05	3.59E-05	2.01E-04	4.10E-03
4.72E-04	2.90E-03	3.69E-04	2.70E-05	2.11E-04	2.11E-04	4.19E-03	4.72E-04	2.90E-03	3.69E-04	2.70E-05	3.57E-05	2.11E-04	4.01E-03
4.40E-04	2.60E-03	3.66E-04	2.55E-05	2.03E-04	2.03E-04	3.84E-03	4.40E-04	2.60E-03	3.66E-04	2.55E-05	3.29E-05	2.03E-04	3.67E-03
3.96E-04	2.19E-03	3.35E-04	2.21E-05	1.73E-04	1.73E-04	3.29E-03	3.96E-04	2.19E-03	3.35E-04	2.21E-05	2.69E-05	1.73E-04	3.14E-03
3.86E-04	2.11E-03	3.81E-04	2.47E-05	1.79E-04	1.79E-04	3.26E-03	3.86E-04	2.11E-03	3.81E-04	2.47E-05	3.03E-05	1.79E-04	3.11E-03
3.70E-04	1.95E-03	4.09E-04	2.56E-05	1.90E-04	1.90E-04	3.13E-03	3.70E-04	1.95E-03	4.09E-04	2.56E-05	3.25E-05	1.90E-04	2.98E-03
3.51E-04	1.78E-03	4.29E-04	2.60E-05	1.99E-04	1.99E-04	2.98E-03	3.51E-04	1.78E-03	4.29E-04	2.60E-05	3.27E-05	1.99E-04	2.82E-03
3.35E-04	1.62E-03	4.52E-04	2.69E-05	2.06E-04	2.06E-04	2.84E-03	3.35E-04	1.62E-03	4.52E-04	2.69E-05	3.33E-05	2.06E-04	2.67E-03
3.18E-04	1.47E-03	4.70E-04	2.77E-05	2.09E-04	2.09E-04	2.70E-03	3.18E-04	1.47E-03	4.70E-04	2.77E-05	3.43E-05	2.09E-04	2.53E-03
3.04E-04	1.34E-03	4.88E-04	2.87E-05	2.18E-04	2.18E-04	2.59E-03	3.04E-04	1.34E-03	4.88E-04	2.87E-05	3.60E-05	2.18E-04	2.41E-03
2.89E-04	1.21E-03	5.01E-04	2.93E-05	2.24E-04	2.24E-04	2.48E-03	2.89E-04	1.21E-03	5.01E-04	2.93E-05	3.84E-05	2.24E-04	2.29E-03
2.73E-04	1.07E-03	5.00E-04	2.90E-05	2.24E-04	2.24E-04	2.32E-03	2.73E-04	1.07E-03	5.00E-04	2.90E-05	3.95E-05	2.24E-04	2.14E-03
2.59E-04	9.59E-04	5.02E-04	2.90E-05	2.28E-04	2.28E-04	2.20E-03	2.59E-04	9.59E-04	5.02E-04	2.90E-05	4.05E-05	2.28E-04	2.02E-03
2.48E-04	8.73E-04	5.08E-04	2.94E-05	2.37E-04	2.37E-04	2.13E-03	2.48E-04	8.73E-04	5.08E-04	2.94E-05	4.24E-05	2.37E-04	1.94E-03
2.36E-04	7.82E-04	5.03E-04	2.90E-05	2.44E-04	2.44E-04	2.04E-03	2.36E-04	7.82E-04	5.03E-04	2.90E-05	4.37E-05	2.44E-04	1.84E-03
2.17E-04	6.40E-04	4.65E-04	2.64E-05	2.41E-04	2.41E-04	1.83E-03	2.17E-04	6.40E-04	4.65E-04	2.64E-05	4.17E-05	2.41E-04	1.63E-03
2.19E-04	6.55E-04	5.08E-04	2.93E-05	2.66E-04	2.66E-04	1.94E-03	2.19E-04	6.55E-04	5.08E-04	2.93E-05	4.75E-05	2.66E-04	1.72E-03
2.30E-04	7.30E-04	5.94E-04	3.52E-05	3.09E-04	3.09E-04	2.21E-03	2.30E-04	7.30E-04	5.94E-04	3.52E-05	5.83E-05	3.09E-04	1.96E-03
2.27E-04	7.10E-04	6.19E-04	3.69E-05	3.28E-04	3.28E-04	2.25E-03	2.27E-04	7.10E-04	6.19E-04	3.69E-05	6.25E-05	3.28E-04	1.98E-03
2.36E-04	7.63E-04	7.07E-04	4.30E-05	3.71E-04	3.71E-04	2.49E-03	2.36E-04	7.63E-04	7.07E-04	4.30E-05	7.39E-05	3.71E-04	2.19E-03
2.34E-04	7.52E-04	7.43E-04	4.54E-05	3.88E-04	3.88E-04	2.55E-03	2.34E-04	7.52E-04	7.43E-04	4.54E-05	7.91E-05	3.88E-04	2.24E-03
2.31E-04	7.28E-04	7.62E-04	4.66E-05	3.99E-04	3.99E-04	2.57E-03	2.31E-04	7.28E-04	7.62E-04	4.66E-05	8.20E-05	3.99E-04	2.25E-03
2.26E-04	6.96E-04	7.68E-04	4.69E-05	4.09E-04	4.09E-04	2.55E-03	2.26E-04	6.96E-04	7.68E-04	4.69E-05	8.32E-05	4.09E-04	2.23E-03

2.21E-04	6.64E-04	7.70E-04	4.69E-05	4.17E-04	4.17E-04	2.54E-03	2.21E-04	6.64E-04	7.70E-04	4.69E-05	8.37E-05	4.17E-04	2.20E-03
2.16E-04	6.26E-04	7.58E-04	4.60E-05	4.21E-04	4.21E-04	2.49E-03	2.16E-04	6.26E-04	7.58E-04	4.60E-05	8.29E-05	4.21E-04	2.15E-03
2.06E-04	5.72E-04	7.22E-04	4.34E-05	4.13E-04	4.13E-04	2.37E-03	2.06E-04	5.72E-04	7.22E-04	4.34E-05	7.90E-05	4.13E-04	2.04E-03
1.54E-04	5.50E-04	3.15E-04	1.94E-05	1.92E-04	1.92E-04	1.42E-03	1.54E-04	5.50E-04	3.15E-04	1.94E-05	3.35E-05	1.92E-04	1.26E-03
1.55E-04	5.54E-04	3.06E-04	1.91E-05	1.89E-04	1.89E-04	1.41E-03	1.55E-04	5.54E-04	3.06E-04	1.91E-05	3.37E-05	1.89E-04	1.26E-03
1.70E-04	6.98E-04	3.44E-04	2.13E-05	2.08E-04	2.08E-04	1.65E-03	1.70E-04	6.98E-04	3.44E-04	2.13E-05	3.80E-05	2.08E-04	1.48E-03
1.83E-04	8.44E-04	3.77E-04	2.32E-05	2.26E-04	2.26E-04	1.88E-03	1.83E-04	8.44E-04	3.77E-04	2.32E-05	4.18E-05	2.26E-04	1.70E-03
1.78E-04	8.12E-04	3.56E-04	2.25E-05	2.18E-04	2.18E-04	1.80E-03	1.78E-04	8.12E-04	3.56E-04	2.25E-05	4.08E-05	2.18E-04	1.63E-03
1.82E-04	8.81E-04	3.66E-04	2.34E-05	2.22E-04	2.22E-04	1.90E-03	1.82E-04	8.81E-04	3.66E-04	2.34E-05	4.15E-05	2.22E-04	1.72E-03
2.06E-04	1.15E-03	4.29E-04	2.68E-05	2.53E-04	2.53E-04	2.32E-03	2.06E-04	1.15E-03	4.29E-04	2.68E-05	4.52E-05	2.53E-04	2.11E-03
2.35E-04	1.45E-03	4.92E-04	2.98E-05	2.92E-04	2.92E-04	2.79E-03	2.35E-04	1.45E-03	4.92E-04	2.98E-05	4.77E-05	2.92E-04	2.54E-03
2.57E-04	1.67E-03	5.36E-04	3.16E-05	3.19E-04	3.19E-04	3.14E-03	2.57E-04	1.67E-03	5.36E-04	3.16E-05	4.88E-05	3.19E-04	2.87E-03
2.79E-04	1.88E-03	5.79E-04	3.31E-05	3.33E-04	3.33E-04	3.43E-03	2.79E-04	1.88E-03	5.79E-04	3.31E-05	5.01E-05	3.33E-04	3.15E-03
2.91E-04	1.98E-03	5.98E-04	3.37E-05	3.21E-04	3.21E-04	3.54E-03	2.91E-04	1.98E-03	5.98E-04	3.37E-05	5.12E-05	3.21E-04	3.27E-03
3.22E-04	2.29E-03	6.76E-04	3.69E-05	3.48E-04	3.48E-04	4.02E-03	3.22E-04	2.29E-03	6.76E-04	3.69E-05	5.66E-05	3.48E-04	3.73E-03
3.53E-04	2.64E-03	7.59E-04	4.10E-05	3.72E-04	3.72E-04	4.54E-03	3.53E-04	2.64E-03	7.59E-04	4.10E-05	6.43E-05	3.72E-04	4.23E-03
3.87E-04	3.01E-03	8.29E-04	4.53E-05	3.83E-04	3.83E-04	5.04E-03	3.87E-04	3.01E-03	8.29E-04	4.53E-05	7.25E-05	3.83E-04	4.73E-03
4.22E-04	3.38E-03	8.60E-04	4.90E-05	3.79E-04	3.79E-04	5.47E-03	4.22E-04	3.38E-03	8.60E-04	4.90E-05	7.94E-05	3.79E-04	5.17E-03
4.85E-04	4.04E-03	9.17E-04	5.40E-05	4.23E-04	4.23E-04	6.34E-03	4.85E-04	4.04E-03	9.17E-04	5.40E-05	8.35E-05	4.23E-04	6.00E-03
5.73E-04	4.85E-03	9.59E-04	5.81E-05	5.37E-04	5.37E-04	7.52E-03	5.73E-04	4.85E-03	9.59E-04	5.81E-05	8.49E-05	5.37E-04	7.06E-03
6.96E-04	5.87E-03	1.01E-03	6.00E-05	6.12E-04	6.12E-04	8.85E-03	6.96E-04	5.87E-03	1.01E-03	6.00E-05	8.46E-05	6.12E-04	8.33E-03
9.08E-04	7.64E-03	1.21E-03	6.17E-05	5.96E-04	5.96E-04	1.10E-02	9.08E-04	7.64E-03	1.21E-03	6.17E-05	8.25E-05	5.96E-04	1.05E-02
1.41E-03	1.11E-02	1.46E-03	7.00E-05	5.84E-04	5.84E-04	1.52E-02	1.41E-03	1.11E-02	1.46E-03	7.00E-05	8.77E-05	5.84E-04	1.47E-02
6.36E-03	2.70E-02	1.45E-03	8.25E-05	5.95E-04	5.95E-04	3.61E-02	6.36E-03	2.70E-02	1.45E-03	8.25E-05	1.19E-04	5.95E-04	3.56E-02
4.38E-03	2.98E-02	1.28E-03	8.76E-05	5.36E-04	5.36E-04	3.66E-02	4.38E-03	2.98E-02	1.28E-03	8.76E-05	1.35E-04	5.36E-04	3.62E-02
1.74E-03	1.17E-02	9.04E-04	7.04E-05	3.98E-04	3.98E-04	1.52E-02	1.74E-03	1.17E-02	9.04E-04	7.04E-05	1.06E-04	3.98E-04	1.49E-02
1.08E-03	7.12E-03	5.93E-04	4.88E-05	3.01E-04	3.01E-04	9.44E-03	1.08E-03	7.12E-03	5.93E-04	4.88E-05	7.41E-05	3.01E-04	9.22E-03
9.04E-04	6.26E-03	5.93E-04	4.90E-05	2.98E-04	2.98E-04	8.41E-03	9.04E-04	6.26E-03	5.93E-04	4.90E-05	7.43E-05	2.98E-04	8.18E-03
7.59E-04	5.22E-03	5.16E-04	4.45E-05	2.66E-04	2.66E-04	7.08E-03	7.59E-04	5.22E-03	5.16E-04	4.45E-05	6.51E-05	2.66E-04	6.88E-03
7.07E-04	4.95E-03	5.56E-04	4.70E-05	2.88E-04	2.88E-04	6.84E-03	7.07E-04	4.95E-03	5.56E-04	4.70E-05	6.89E-05	2.88E-04	6.62E-03
6.22E-04	4.22E-03	4.97E-04	4.03E-05	2.62E-04	2.62E-04	5.90E-03	6.22E-04	4.22E-03	4.97E-04	4.03E-05	6.09E-05	2.62E-04	5.70E-03
5.79E-04	3.87E-03	5.15E-04	4.12E-05	2.57E-04	2.57E-04	5.52E-03	5.79E-04	3.87E-03	5.15E-04	4.12E-05	5.77E-05	2.57E-04	5.32E-03
5.40E-04	3.52E-03	5.33E-04	4.12E-05	2.68E-04	2.68E-04	5.17E-03	5.40E-04	3.52E-03	5.33E-04	4.12E-05	5.58E-05	2.68E-04	4.96E-03
4.85E-04	3.01E-03	4.92E-04	3.59E-05	2.48E-04	2.48E-04	4.52E-03	4.85E-04	3.01E-03	4.92E-04	3.59E-05	4.38E-05	2.48E-04	4.32E-03
4.54E-04	2.72E-03	5.10E-04	3.56E-05	2.44E-04	2.44E-04	4.20E-03	4.54E-04	2.72E-03	5.10E-04	3.56E-05	4.10E-05	2.44E-04	4.00E-03
4.27E-04	2.44E-03	5.29E-04	3.53E-05	2.29E-04	2.29E-04	3.89E-03	4.27E-04	2.44E-03	5.29E-04	3.53E-05	3.98E-05	2.29E-04	3.70E-03
3.87E-04	2.06E-03	5.04E-04	3.09E-05	2.09E-04	2.09E-04	3.40E-03	3.87E-04	2.06E-03	5.04E-04	3.09E-05	3.58E-05	2.09E-04	3.23E-03
3.68E-04	1.88E-03	5.39E-04	3.22E-05	2.22E-04	2.22E-04	3.27E-03	3.68E-04	1.88E-03	5.39E-04	3.22E-05	3.75E-05	2.22E-04	3.08E-03
3.44E-04	1.65E-03	5.47E-04	3.20E-05	2.27E-04	2.27E-04	3.03E-03	3.44E-04	1.65E-03	5.47E-04	3.20E-05	3.64E-05	2.27E-04	2.84E-03
3.23E-04	1.47E-03	5.59E-04	3.24E-05	2.32E-04	2.32E-04	2.84E-03	3.23E-04	1.47E-03	5.59E-04	3.24E-05	3.72E-05	2.32E-04	2.65E-03
3.06E-04	1.33E-03	5.79E-04	3.35E-05	2.39E-04	2.39E-04	2.72E-03	3.06E-04	1.33E-03	5.79E-04	3.35E-05	4.00E-05	2.39E-04	2.52E-03
2.96E-04	1.23E-03	6.11E-04	3.56E-05	2.56E-04	2.56E-04	2.69E-03	2.96E-04	1.23E-03	6.11E-04	3.56E-05	4.49E-05	2.56E-04	2.47E-03
2.87E-04	1.16E-03	6.46E-04	3.81E-05	2.72E-04	2.72E-04	2.67E-03	2.87E-04	1.16E-03	6.46E-04	3.81E-05	4.99E-05	2.72E-04	2.45E-03
2.81E-04	1.10E-03	6.82E-04	4.06E-05	2.88E-04	2.88E-04	2.67E-03	2.81E-04	1.10E-03	6.82E-04	4.06E-05	5.51E-05	2.88E-04	2.44E-03
2.73E-04	1.03E-03	7.06E-04	4.24E-05	3.04E-04	3.04E-04	2.66E-03	2.73E-04	1.03E-03	7.06E-04	4.24E-05	5.98E-05	3.04E-04	2.41E-03
2.60E-04	9.26E-04	6.95E-04	4.15E-05	3.11E-04	3.11E-04	2.55E-03	2.60E-04	9.26E-04	6.95E-04	4.15E-05	6.17E-05	3.11E-04	2.30E-03
2.34E-04	7.39E-04	6.19E-04	3.61E-05	2.98E-04	2.98E-04	2.22E-03	2.34E-04	7.39E-04	6.19E-04	3.61E-05	5.66E-05	2.98E-04	1.98E-03
2.47E-04	8.21E-04	7.27E-04	4.37E-05	3.50E-04	3.50E-04	2.54E-03	2.47E-04	8.21E-04	7.27E-04	4.37E-05	7.03E-05	3.50E-04	2.26E-03
2.59E-04	8.91E-04	8.46E-04	5.22E-05	4.10E-04	4.10E-04	2.87E-03	2.59E-04	8.91E-04	8.46E-04	5.22E-05	8.58E-05	4.10E-04	2.54E-03
2.48E-04	8.15E-04	8.25E-04	5.07E-05	4.16E-04	4.16E-04	2.77E-03	2.48E-04	8.15E-04	8.25E-04	5.07E-05	8.57E-05	4.16E-04	2.44E-03
2.52E-04	8.34E-04	9.03E-04	5.61E-05	4.54E-04	4.54E-04	2.95E-03	2.52E-04	8.34E-04	9.03E-04	5.61E-05	9.65E-05	4.54E-04	2.60E-03
2.52E-04	8.23E-04	9.53E-04	5.95E-05	4.77E-04	4.77E-04	3.04E-03	2.52E-04	8.23E-04	9.53E-04	5.95E-05	1.03E-04	4.77E-04	2.67E-03
2.49E-04	8.02E-04	9.82E-04	6.13E-05	4.94E-04	4.94E-04	3.08E-03	2.49E-04	8.02E-04	9.82E-04	6.13E-05	1.07E-04	4.94E-04	2.70E-03
2.43E-04	7.58E-04	9.70E-04	6.03E-05	4.97E-04	4.97E-04	3.03E-03	2.43E-04	7.58E-04	9.70E-04	6.03E-05	1.07E-04	4.97E-04	2.64E-03

2.36E-04	7.13E-04	9.50E-04	5.88E-05	5.00E-04	5.00E-04	2.96E-03	2.36E-04	7.13E-04	9.50E-04	5.88E-05	1.06E-04	5.00E-04	2.56E-03
2.29E-04	6.68E-04	9.24E-04	5.68E-05	4.99E-04	4.99E-04	2.88E-03	2.29E-04	6.68E-04	9.24E-04	5.68E-05	1.03E-04	4.99E-04	2.48E-03
2.18E-04	6.07E-04	8.67E-04	5.28E-05	4.86E-04	4.86E-04	2.72E-03	2.18E-04	6.07E-04	8.67E-04	5.28E-05	9.73E-05	4.86E-04	2.33E-03
2.08E-04	5.52E-04	8.17E-04	4.92E-05	4.74E-04	4.74E-04	2.57E-03	2.08E-04	5.52E-04	8.17E-04	4.92E-05	9.14E-05	4.74E-04	2.19E-03
1.35E-04	4.25E-04	2.90E-04	1.81E-05	1.84E-04	1.84E-04	1.24E-03	1.35E-04	4.25E-04	2.90E-04	1.81E-05	3.06E-05	1.84E-04	1.08E-03
1.47E-04	5.29E-04	3.31E-04	2.06E-05	2.01E-04	2.01E-04	1.43E-03	1.47E-04	5.29E-04	3.31E-04	2.06E-05	3.46E-05	2.01E-04	1.26E-03
1.55E-04	6.11E-04	3.61E-04	2.24E-05	2.13E-04	2.13E-04	1.58E-03	1.55E-04	6.11E-04	3.61E-04	2.24E-05	3.78E-05	2.13E-04	1.40E-03
1.64E-04	6.95E-04	3.85E-04	2.40E-05	2.24E-04	2.24E-04	1.72E-03	1.64E-04	6.95E-04	3.85E-04	2.40E-05	4.07E-05	2.24E-04	1.53E-03
1.70E-04	7.58E-04	3.98E-04	2.50E-05	2.32E-04	2.32E-04	1.82E-03	1.70E-04	7.58E-04	3.98E-04	2.50E-05	4.30E-05	2.32E-04	1.63E-03
1.74E-04	8.01E-04	4.03E-04	2.56E-05	2.38E-04	2.38E-04	1.88E-03	1.74E-04	8.01E-04	4.03E-04	2.56E-05	4.47E-05	2.38E-04	1.69E-03
1.79E-04	8.52E-04	4.16E-04	2.65E-05	2.46E-04	2.46E-04	1.97E-03	1.79E-04	8.52E-04	4.16E-04	2.65E-05	4.69E-05	2.46E-04	1.77E-03
2.11E-04	1.20E-03	5.33E-04	3.21E-05	3.02E-04	3.02E-04	2.58E-03	2.11E-04	1.20E-03	5.33E-04	3.21E-05	5.59E-05	3.02E-04	2.33E-03
2.20E-04	1.29E-03	5.54E-04	3.35E-05	3.12E-04	3.12E-04	2.72E-03	2.20E-04	1.29E-03	5.54E-04	3.35E-05	5.72E-05	3.12E-04	2.47E-03
2.29E-04	1.37E-03	5.68E-04	3.49E-05	3.20E-04	3.20E-04	2.85E-03	2.29E-04	1.37E-03	5.68E-04	3.49E-05	5.73E-05	3.20E-04	2.58E-03
2.36E-04	1.41E-03	5.68E-04	3.57E-05	3.14E-04	3.14E-04	2.87E-03	2.36E-04	1.41E-03	5.68E-04	3.57E-05	5.60E-05	3.14E-04	2.62E-03
2.57E-04	1.57E-03	6.16E-04	3.78E-05	3.24E-04	3.24E-04	3.13E-03	2.57E-04	1.57E-03	6.16E-04	3.78E-05	5.73E-05	3.24E-04	2.87E-03
2.69E-04	1.68E-03	6.53E-04	3.92E-05	3.27E-04	3.27E-04	3.29E-03	2.69E-04	1.68E-03	6.53E-04	3.92E-05	5.87E-05	3.27E-04	3.03E-03
2.54E-04	1.42E-03	5.93E-04	3.67E-05	2.95E-04	2.95E-04	2.90E-03	2.54E-04	1.42E-03	5.93E-04	3.67E-05	5.71E-05	2.95E-04	2.66E-03
2.51E-04	1.29E-03	5.62E-04	3.61E-05	2.84E-04	2.84E-04	2.70E-03	2.51E-04	1.29E-03	5.62E-04	3.61E-05	5.94E-05	2.84E-04	2.48E-03
3.08E-04	1.93E-03	7.53E-04	4.75E-05	3.37E-04	3.37E-04	3.71E-03	3.08E-04	1.93E-03	7.53E-04	4.75E-05	7.86E-05	3.37E-04	3.45E-03
3.58E-04	2.48E-03	8.94E-04	5.71E-05	3.81E-04	3.81E-04	4.56E-03	3.58E-04	2.48E-03	8.94E-04	5.71E-05	9.23E-05	3.81E-04	4.27E-03
4.72E-04	3.80E-03	1.13E-03	6.90E-05	5.40E-04	5.40E-04	6.55E-03	4.72E-04	3.80E-03	1.13E-03	6.90E-05	1.03E-04	5.40E-04	6.11E-03
6.09E-04	4.92E-03	1.28E-03	7.53E-05	7.17E-04	7.17E-04	8.33E-03	6.09E-04	4.92E-03	1.28E-03	7.53E-05	1.04E-04	7.17E-04	7.71E-03
7.92E-04	6.36E-03	1.53E-03	7.82E-05	7.01E-04	7.01E-04	1.02E-02	7.92E-04	6.36E-03	1.53E-03	7.82E-05	1.03E-04	7.01E-04	9.57E-03
1.29E-03	9.58E-03	1.85E-03	8.85E-05	6.87E-04	6.87E-04	1.42E-02	1.29E-03	9.58E-03	1.85E-03	8.85E-05	1.06E-04	6.87E-04	1.36E-02
7.35E-03	2.71E-02	1.83E-03	1.04E-04	6.81E-04	6.81E-04	3.77E-02	7.35E-03	2.71E-02	1.83E-03	1.04E-04	1.44E-04	6.81E-04	3.72E-02
4.08E-03	2.68E-02	1.60E-03	1.10E-04	6.43E-04	6.43E-04	3.39E-02	4.08E-03	2.68E-02	1.60E-03	1.10E-04	1.65E-04	6.43E-04	3.34E-02
1.74E-03	1.27E-02	1.32E-03	9.90E-05	5.26E-04	5.26E-04	1.69E-02	1.74E-03	1.27E-02	1.32E-03	9.90E-05	1.37E-04	5.26E-04	1.65E-02
1.07E-03	7.44E-03	8.78E-04	7.24E-05	3.99E-04	3.99E-04	1.03E-02	1.07E-03	7.44E-03	8.78E-04	7.24E-05	1.10E-04	3.99E-04	9.98E-03
8.28E-04	5.63E-03	6.88E-04	5.94E-05	3.25E-04	3.25E-04	7.85E-03	8.28E-04	5.63E-03	6.88E-04	5.94E-05	8.45E-05	3.25E-04	7.61E-03
7.59E-04	5.33E-03	7.64E-04	6.53E-05	3.46E-04	3.46E-04	7.61E-03	7.59E-04	5.33E-03	7.64E-04	6.53E-05	9.28E-05	3.46E-04	7.36E-03
6.95E-04	4.84E-03	8.15E-04	6.58E-05	3.56E-04	3.56E-04	7.13E-03	6.95E-04	4.84E-03	8.15E-04	6.58E-05	9.10E-05	3.56E-04	6.86E-03
6.41E-04	4.35E-03	8.69E-04	6.81E-05	3.55E-04	3.55E-04	6.64E-03	6.41E-04	4.35E-03	8.69E-04	6.81E-05	8.85E-05	3.55E-04	6.38E-03
5.69E-04	3.67E-03	8.14E-04	6.17E-05	3.29E-04	3.29E-04	5.77E-03	5.69E-04	3.67E-03	8.14E-04	6.17E-05	7.44E-05	3.29E-04	5.51E-03
4.97E-04	3.00E-03	7.23E-04	5.16E-05	2.96E-04	2.96E-04	4.87E-03	4.97E-04	3.00E-03	7.23E-04	5.16E-05	5.52E-05	2.96E-04	4.63E-03
4.58E-04	2.62E-03	7.32E-04	4.86E-05	2.90E-04	2.90E-04	4.44E-03	4.58E-04	2.62E-03	7.32E-04	4.86E-05	5.06E-05	2.90E-04	4.20E-03
4.19E-04	2.26E-03	7.23E-04	4.47E-05	2.69E-04	2.69E-04	3.98E-03	4.19E-04	2.26E-03	7.23E-04	4.47E-05	4.63E-05	2.69E-04	3.76E-03
3.84E-04	1.94E-03	7.22E-04	4.28E-05	2.58E-04	2.58E-04	3.61E-03	3.84E-04	1.94E-03	7.22E-04	4.28E-05	4.43E-05	2.58E-04	3.40E-03
3.55E-04	1.68E-03	7.19E-04	4.19E-05	2.61E-04	2.61E-04	3.32E-03	3.55E-04	1.68E-03	7.19E-04	4.19E-05	4.30E-05	2.61E-04	3.10E-03
3.28E-04	1.44E-03	7.08E-04	4.07E-05	2.66E-04	2.66E-04	3.05E-03	3.28E-04	1.44E-03	7.08E-04	4.07E-05	4.29E-05	2.66E-04	2.82E-03
3.07E-04	1.26E-03	7.11E-04	4.08E-05	2.74E-04	2.74E-04	2.87E-03	3.07E-04	1.26E-03	7.11E-04	4.08E-05	4.62E-05	2.74E-04	2.64E-03
2.84E-04	1.07E-03	6.84E-04	3.92E-05	2.76E-04	2.76E-04	2.63E-03	2.84E-04	1.07E-03	6.84E-04	3.92E-05	4.77E-05	2.76E-04	2.40E-03
2.87E-04	1.08E-03	7.65E-04	4.51E-05	3.08E-04	3.08E-04	2.79E-03	2.87E-04	1.08E-03	7.65E-04	4.51E-05	5.76E-05	3.08E-04	2.54E-03
2.85E-04	1.07E-03	8.31E-04	4.99E-05	3.37E-04	3.37E-04	2.91E-03	2.85E-04	1.07E-03	8.31E-04	4.99E-05	6.71E-05	3.37E-04	2.64E-03
2.96E-04	1.13E-03	9.70E-04	5.98E-05	3.91E-04	3.91E-04	3.24E-03	2.96E-04	1.13E-03	9.70E-04	5.98E-05	8.41E-05	3.91E-04	2.93E-03
2.90E-04	1.08E-03	1.00E-03	6.22E-05	4.16E-04	4.16E-04	3.26E-03	2.90E-04	1.08E-03	1.00E-03	6.22E-05	9.17E-05	4.16E-04	2.94E-03
2.82E-04	1.02E-03	1.02E-03	6.34E-05	4.40E-04	4.40E-04	3.26E-03	2.82E-04	1.02E-03	1.02E-03	6.34E-05	9.77E-05	4.40E-04	2.92E-03
2.81E-04	1.00E-03	1.08E-03	6.79E-05	4.81E-04	4.81E-04	3.39E-03	2.81E-04	1.00E-03	1.08E-03	6.79E-05	1.08E-04	4.81E-04	3.01E-03
2.86E-04	1.01E-03	1.18E-03	7.56E-05	5.41E-04	5.41E-04	3.64E-03	2.86E-04	1.01E-03	1.18E-03	7.56E-05	1.25E-04	5.41E-04	3.22E-03
2.77E-04	9.51E-04	1.17E-03	7.47E-05	5.55E-04	5.55E-04	3.58E-03	2.77E-04	9.51E-04	1.17E-03	7.47E-05	1.27E-04	5.55E-04	3.15E-03
2.69E-04	8.94E-04	1.16E-03	7.39E-05	5.61E-04	5.61E-04	3.52E-03	2.69E-04	8.94E-04	1.16E-03	7.39E-05	1.27E-04	5.61E-04	3.09E-03
2.69E-04	8.83E-04	1.22E-03	7.75E-05	5.89E-04	5.89E-04	3.63E-03	2.69E-04	8.83E-04	1.22E-03	7.75E-05	1.36E-04	5.89E-04	3.17E-03
2.69E-04	8.73E-04	1.27E-03	8.10E-05	6.19E-04	6.19E-04	3.73E-03	2.69E-04	8.73E-04	1.27E-03	8.10E-05	1.44E-04	6.19E-04	3.26E-03
2.60E-04	8.15E-04	1.23E-03	7.75E-05	6.12E-04	6.12E-04	3.60E-03	2.60E-04	8.15E-04	1.23E-03	7.75E-05	1.40E-04	6.12E-04	3.13E-03

2.50E-04	7.58E-04	1.18E-03	7.38E-05	6.05E-04	6.05E-04	3.47E-03	2.50E-04	7.58E-04	1.18E-03	7.38E-05	1.35E-04	6.05E-04	3.00E-03
2.43E-04	7.15E-04	1.14E-03	7.13E-05	6.04E-04	6.04E-04	3.38E-03	2.43E-04	7.15E-04	1.14E-03	7.13E-05	1.32E-04	6.04E-04	2.91E-03
2.31E-04	6.41E-04	1.05E-03	6.46E-05	5.76E-04	5.76E-04	3.13E-03	2.31E-04	6.41E-04	1.05E-03	6.46E-05	1.20E-04	5.76E-04	2.68E-03
2.17E-04	5.68E-04	9.53E-04	5.81E-05	5.48E-04	5.48E-04	2.89E-03	2.17E-04	5.68E-04	9.53E-04	5.81E-05	1.09E-04	5.48E-04	2.45E-03
2.05E-04	5.03E-04	8.69E-04	5.22E-05	5.22E-04	5.22E-04	2.67E-03	2.05E-04	5.03E-04	8.69E-04	5.22E-05	9.86E-05	5.22E-04	2.25E-03
1.31E-04	4.28E-04	3.03E-04	1.86E-05	2.00E-04	2.00E-04	1.28E-03	1.31E-04	4.28E-04	3.03E-04	1.86E-05	3.41E-05	2.00E-04	1.12E-03
1.39E-04	4.97E-04	3.37E-04	2.06E-05	2.13E-04	2.13E-04	1.42E-03	1.39E-04	4.97E-04	3.37E-04	2.06E-05	3.71E-05	2.13E-04	1.24E-03
1.47E-04	5.68E-04	3.74E-04	2.27E-05	2.27E-04	2.27E-04	1.57E-03	1.47E-04	5.68E-04	3.74E-04	2.27E-05	4.04E-05	2.27E-04	1.38E-03
1.53E-04	6.37E-04	4.06E-04	2.47E-05	2.39E-04	2.39E-04	1.70E-03	1.53E-04	6.37E-04	4.06E-04	2.47E-05	4.30E-05	2.39E-04	1.50E-03
1.62E-04	7.09E-04	4.39E-04	2.69E-05	2.52E-04	2.52E-04	1.84E-03	1.62E-04	7.09E-04	4.39E-04	2.69E-05	4.62E-05	2.52E-04	1.64E-03
1.71E-04	8.02E-04	4.83E-04	2.95E-05	2.69E-04	2.69E-04	2.02E-03	1.71E-04	8.02E-04	4.83E-04	2.95E-05	5.01E-05	2.69E-04	1.81E-03
1.82E-04	8.99E-04	5.25E-04	3.23E-05	2.89E-04	2.89E-04	2.22E-03	1.82E-04	8.99E-04	5.25E-04	3.23E-05	5.49E-05	2.89E-04	1.98E-03
1.79E-04	8.45E-04	4.93E-04	3.16E-05	2.78E-04	2.78E-04	2.10E-03	1.79E-04	8.45E-04	4.93E-04	3.16E-05	5.34E-05	2.78E-04	1.88E-03
1.92E-04	9.80E-04	5.45E-04	3.46E-05	3.04E-04	3.04E-04	2.36E-03	1.92E-04	9.80E-04	5.45E-04	3.46E-05	5.91E-05	3.04E-04	2.12E-03
1.99E-04	1.05E-03	5.67E-04	3.61E-05	3.13E-04	3.13E-04	2.48E-03	1.99E-04	1.05E-03	5.67E-04	3.61E-05	6.17E-05	3.13E-04	2.22E-03
2.00E-04	9.84E-04	5.42E-04	3.52E-05	3.03E-04	3.03E-04	2.37E-03	2.00E-04	9.84E-04	5.42E-04	3.52E-05	6.02E-05	3.03E-04	2.12E-03
1.96E-04	8.25E-04	4.85E-04	3.22E-05	2.78E-04	2.78E-04	2.09E-03	1.96E-04	8.25E-04	4.85E-04	3.22E-05	5.47E-05	2.78E-04	1.87E-03
1.94E-04	7.27E-04	4.51E-04	3.01E-05	2.56E-04	2.56E-04	1.91E-03	1.94E-04	7.27E-04	4.51E-04	3.01E-05	4.95E-05	2.56E-04	1.71E-03
1.89E-04	6.14E-04	4.17E-04	2.75E-05	2.35E-04	2.35E-04	1.72E-03	1.89E-04	6.14E-04	4.17E-04	2.75E-05	4.39E-05	2.35E-04	1.53E-03
1.77E-04	4.37E-04	3.48E-04	2.15E-05	2.07E-04	2.07E-04	1.40E-03	1.77E-04	4.37E-04	3.48E-04	2.15E-05	3.44E-05	2.07E-04	1.23E-03
2.00E-04	5.97E-04	4.12E-04	2.64E-05	2.35E-04	2.35E-04	1.71E-03	2.00E-04	5.97E-04	4.12E-04	2.64E-05	4.14E-05	2.35E-04	1.51E-03
2.43E-04	9.96E-04	5.74E-04	3.81E-05	2.90E-04	2.90E-04	2.43E-03	2.43E-04	9.96E-04	5.74E-04	3.81E-05	6.15E-05	2.90E-04	2.20E-03
3.35E-04	2.09E-03	1.08E-03	6.68E-05	4.32E-04	4.32E-04	4.44E-03	3.35E-04	2.09E-03	1.08E-03	6.68E-05	1.06E-04	4.32E-04	4.11E-03
4.62E-04	3.46E-03	1.56E-03	8.88E-05	6.82E-04	6.82E-04	6.94E-03	4.62E-04	3.46E-03	1.56E-03	8.88E-05	1.27E-04	6.82E-04	6.38E-03
5.71E-04	4.32E-03	1.66E-03	9.90E-05	8.01E-04	8.01E-04	8.25E-03	5.71E-04	4.32E-03	1.66E-03	9.90E-05	1.34E-04	8.01E-04	7.58E-03
7.72E-04	5.72E-03	2.06E-03	1.05E-04	8.51E-04	8.51E-04	1.04E-02	7.72E-04	5.72E-03	2.06E-03	1.05E-04	1.32E-04	8.51E-04	9.64E-03
1.29E-03	9.00E-03	2.51E-03	1.20E-04	8.16E-04	8.16E-04	1.46E-02	1.29E-03	9.00E-03	2.51E-03	1.20E-04	1.33E-04	8.16E-04	1.39E-02
8.87E-03	2.99E-02	2.43E-03	1.42E-04	8.26E-04	8.26E-04	4.30E-02	8.87E-03	2.99E-02	2.43E-03	1.42E-04	1.80E-04	8.26E-04	4.23E-02
3.81E-03	2.49E-02	2.21E-03	1.52E-04	7.90E-04	7.90E-04	3.26E-02	3.81E-03	2.49E-02	2.21E-03	1.52E-04	2.07E-04	7.90E-04	3.21E-02
1.61E-03	1.13E-02	1.70E-03	1.31E-04	6.13E-04	6.13E-04	1.59E-02	1.61E-03	1.13E-02	1.70E-03	1.31E-04	1.74E-04	6.13E-04	1.55E-02
9.36E-04	6.47E-03	1.09E-03	9.56E-05	4.42E-04	4.42E-04	9.48E-03	9.36E-04	6.47E-03	1.09E-03	9.56E-05	1.29E-04	4.42E-04	9.16E-03
8.42E-04	5.84E-03	1.29E-03	1.08E-04	4.62E-04	4.62E-04	9.00E-03	8.42E-04	5.84E-03	1.29E-03	1.08E-04	1.37E-04	4.62E-04	8.68E-03
7.60E-04	5.04E-03	1.41E-03	1.11E-04	4.72E-04	4.72E-04	8.26E-03	7.60E-04	5.04E-03	1.41E-03	1.11E-04	1.31E-04	4.72E-04	7.92E-03
6.00E-04	3.62E-03	1.07E-03	8.02E-05	3.72E-04	3.72E-04	6.12E-03	6.00E-04	3.62E-03	1.07E-03	8.02E-05	8.88E-05	3.72E-04	5.83E-03
5.28E-04	3.00E-03	1.03E-03	7.17E-05	3.34E-04	3.34E-04	5.30E-03	5.28E-04	3.00E-03	1.03E-03	7.17E-05	7.12E-05	3.34E-04	5.03E-03
4.69E-04	2.49E-03	9.87E-04	6.27E-05	3.22E-04	3.22E-04	4.65E-03	4.69E-04	2.49E-03	9.87E-04	6.27E-05	5.68E-05	3.22E-04	4.39E-03
4.35E-04	2.20E-03	1.02E-03	6.15E-05	3.32E-04	3.32E-04	4.38E-03	4.35E-04	2.20E-03	1.02E-03	6.15E-05	5.57E-05	3.32E-04	4.10E-03
3.97E-04	1.88E-03	1.01E-03	5.88E-05	3.19E-04	3.19E-04	3.98E-03	3.97E-04	1.88E-03	1.01E-03	5.88E-05	5.24E-05	3.19E-04	3.71E-03
3.70E-04	1.65E-03	1.00E-03	5.85E-05	3.17E-04	3.17E-04	3.71E-03	3.70E-04	1.65E-03	1.00E-03	5.85E-05	5.35E-05	3.17E-04	3.45E-03
3.09E-04	1.16E-03	8.27E-04	4.61E-05	2.87E-04	2.87E-04	2.92E-03	3.09E-04	1.16E-03	8.27E-04	4.61E-05	4.56E-05	2.87E-04	2.68E-03
3.08E-04	1.15E-03	9.12E-04	5.27E-05	3.27E-04	3.27E-04	3.08E-03	3.08E-04	1.15E-03	9.12E-04	5.27E-05	5.64E-05	3.27E-04	2.81E-03
3.00E-04	1.09E-03	9.54E-04	5.62E-05	3.51E-04	3.51E-04	3.10E-03	3.00E-04	1.09E-03	9.54E-04	5.62E-05	6.54E-05	3.51E-04	2.82E-03
2.91E-04	1.03E-03	9.88E-04	5.91E-05	3.76E-04	3.76E-04	3.12E-03	2.91E-04	1.03E-03	9.88E-04	5.91E-05	7.48E-05	3.76E-04	2.82E-03
3.15E-04	1.18E-03	1.22E-03	7.63E-05	4.62E-04	4.62E-04	3.71E-03	3.15E-04	1.18E-03	1.22E-03	7.63E-05	1.02E-04	4.62E-04	3.35E-03
3.16E-04	1.18E-03	1.33E-03	8.46E-05	5.09E-04	5.09E-04	3.93E-03	3.16E-04	1.18E-03	1.33E-03	8.46E-05	1.19E-04	5.09E-04	3.54E-03
3.17E-04	1.17E-03	1.41E-03	9.14E-05	5.58E-04	5.58E-04	4.10E-03	3.17E-04	1.17E-03	1.41E-03	9.14E-05	1.35E-04	5.58E-04	3.68E-03
3.11E-04	1.11E-03	1.44E-03	9.35E-05	5.90E-04	5.90E-04	4.14E-03	3.11E-04	1.11E-03	1.44E-03	9.35E-05	1.44E-04	5.90E-04	3.69E-03
3.07E-04	1.08E-03	1.48E-03	9.65E-05	6.30E-04	6.30E-04	4.22E-03	3.07E-04	1.08E-03	1.48E-03	9.65E-05	1.55E-04	6.30E-04	3.74E-03
3.09E-04	1.07E-03	1.57E-03	1.03E-04	6.99E-04	6.99E-04	4.46E-03	3.09E-04	1.07E-03	1.57E-03	1.03E-04	1.74E-04	6.99E-04	3.93E-03
3.07E-04	1.05E-03	1.63E-03	1.07E-04	7.48E-04	7.48E-04	4.59E-03	3.07E-04	1.05E-03	1.63E-03	1.07E-04	1.86E-04	7.48E-04	4.03E-03
2.98E-04	9.89E-04	1.61E-03	1.05E-04	7.50E-04	7.50E-04	4.50E-03	2.98E-04	9.89E-04	1.61E-03	1.05E-04	1.85E-04	7.50E-04	3.94E-03
2.91E-04	9.41E-04	1.60E-03	1.04E-04	7.51E-04	7.51E-04	4.44E-03	2.91E-04	9.41E-04	1.60E-03	1.04E-04	1.85E-04	7.51E-04	3.87E-03
2.86E-04	9.09E-04	1.61E-03	1.04E-04	7.66E-04	7.66E-04	4.44E-03	2.86E-04	9.09E-04	1.61E-03	1.04E-04	1.89E-04	7.66E-04	3.86E-03
2.74E-04	8.44E-04	1.53E-03	9.79E-05	7.49E-04	7.49E-04	4.24E-03	2.74E-04	8.44E-04	1.53E-03	9.79E-05	1.80E-04	7.49E-04	3.67E-03

2.63E-04	7.84E-04	1.45E-03	9.21E-05	7.32E-04	7.32E-04	4.05E-03	2.63E-04	7.84E-04	1.45E-03	9.21E-05	1.70E-04	7.32E-04	3.49E-03
2.57E-04	7.50E-04	1.42E-03	8.98E-05	7.36E-04	7.36E-04	3.99E-03	2.57E-04	7.50E-04	1.42E-03	8.98E-05	1.67E-04	7.36E-04	3.42E-03
2.49E-04	7.04E-04	1.35E-03	8.52E-05	7.26E-04	7.26E-04	3.84E-03	2.49E-04	7.04E-04	1.35E-03	8.52E-05	1.59E-04	7.26E-04	3.28E-03
2.31E-04	6.09E-04	1.18E-03	7.30E-05	6.66E-04	6.66E-04	3.42E-03	2.31E-04	6.09E-04	1.18E-03	7.30E-05	1.38E-04	6.66E-04	2.89E-03
2.02E-04	4.62E-04	9.23E-04	5.55E-05	5.68E-04	5.68E-04	2.78E-03	2.02E-04	4.62E-04	9.23E-04	5.55E-05	1.06E-04	5.68E-04	2.32E-03
1.96E-04	4.27E-04	8.72E-04	5.20E-05	5.58E-04	5.58E-04	2.66E-03	1.96E-04	4.27E-04	8.72E-04	5.20E-05	1.00E-04	5.58E-04	2.20E-03
1.27E-04	4.27E-04	3.13E-04	1.94E-05	2.15E-04	2.15E-04	1.32E-03	1.27E-04	4.27E-04	3.13E-04	1.94E-05	3.58E-05	2.15E-04	1.14E-03
1.33E-04	4.80E-04	3.42E-04	2.12E-05	2.28E-04	2.28E-04	1.43E-03	1.33E-04	4.80E-04	3.42E-04	2.12E-05	3.93E-05	2.28E-04	1.24E-03
1.39E-04	5.31E-04	3.74E-04	2.30E-05	2.40E-04	2.40E-04	1.55E-03	1.39E-04	5.31E-04	3.74E-04	2.30E-05	4.22E-05	2.40E-04	1.35E-03
1.45E-04	5.89E-04	4.08E-04	2.49E-05	2.53E-04	2.53E-04	1.67E-03	1.45E-04	5.89E-04	4.08E-04	2.49E-05	4.52E-05	2.53E-04	1.47E-03
1.50E-04	6.30E-04	4.36E-04	2.65E-05	2.63E-04	2.63E-04	1.77E-03	1.50E-04	6.30E-04	4.36E-04	2.65E-05	4.76E-05	2.63E-04	1.55E-03
1.56E-04	6.78E-04	4.69E-04	2.85E-05	2.74E-04	2.74E-04	1.88E-03	1.56E-04	6.78E-04	4.69E-04	2.85E-05	5.05E-05	2.74E-04	1.66E-03
1.61E-04	7.17E-04	5.02E-04	3.05E-05	2.85E-04	2.85E-04	1.98E-03	1.61E-04	7.17E-04	5.02E-04	3.05E-05	5.35E-05	2.85E-04	1.75E-03
1.62E-04	6.99E-04	4.98E-04	3.11E-05	2.83E-04	2.83E-04	1.96E-03	1.62E-04	6.99E-04	4.98E-04	3.11E-05	5.42E-05	2.83E-04	1.73E-03
1.66E-04	7.03E-04	5.05E-04	3.23E-05	2.87E-04	2.87E-04	1.98E-03	1.66E-04	7.03E-04	5.05E-04	3.23E-05	5.60E-05	2.87E-04	1.75E-03
1.70E-04	7.04E-04	5.07E-04	3.33E-05	2.90E-04	2.90E-04	1.99E-03	1.70E-04	7.04E-04	5.07E-04	3.33E-05	5.74E-05	2.90E-04	1.76E-03
1.68E-04	6.27E-04	4.71E-04	3.17E-05	2.76E-04	2.76E-04	1.85E-03	1.68E-04	6.27E-04	4.71E-04	3.17E-05	5.43E-05	2.76E-04	1.63E-03
1.62E-04	4.82E-04	4.05E-04	2.73E-05	2.50E-04	2.50E-04	1.58E-03	1.62E-04	4.82E-04	4.05E-04	2.73E-05	4.72E-05	2.50E-04	1.37E-03
1.66E-04	4.64E-04	4.03E-04	2.68E-05	2.49E-04	2.49E-04	1.56E-03	1.66E-04	4.64E-04	4.03E-04	2.68E-05	4.65E-05	2.49E-04	1.36E-03
1.71E-04	4.81E-04	4.21E-04	2.74E-05	2.52E-04	2.52E-04	1.61E-03	1.71E-04	4.81E-04	4.21E-04	2.74E-05	4.67E-05	2.52E-04	1.40E-03
1.66E-04	3.79E-04	3.82E-04	2.32E-05	2.27E-04	2.27E-04	1.40E-03	1.66E-04	3.79E-04	3.82E-04	2.32E-05	3.97E-05	2.27E-04	1.22E-03
1.59E-04	2.52E-04	3.21E-04	1.80E-05	1.99E-04	1.99E-04	1.15E-03	1.59E-04	2.52E-04	3.21E-04	1.80E-05	3.10E-05	1.99E-04	9.80E-04
1.98E-04	5.63E-04	5.05E-04	3.23E-05	2.72E-04	2.72E-04	1.84E-03	1.98E-04	5.63E-04	5.05E-04	3.23E-05	5.02E-05	2.72E-04	1.62E-03
2.49E-04	1.02E-03	7.70E-04	5.32E-05	3.59E-04	3.59E-04	2.81E-03	2.49E-04	1.02E-03	7.70E-04	5.32E-05	7.69E-05	3.59E-04	2.53E-03
3.43E-04	1.99E-03	1.47E-03	8.74E-05	5.36E-04	5.36E-04	4.96E-03	3.43E-04	1.99E-03	1.47E-03	8.74E-05	1.26E-04	5.36E-04	4.55E-03
3.68E-04	1.99E-03	1.51E-03	9.52E-05	5.62E-04	5.62E-04	5.09E-03	3.68E-04	1.99E-03	1.51E-03	9.52E-05	1.41E-04	5.62E-04	4.67E-03
5.29E-04	3.30E-03	2.25E-03	1.35E-04	8.36E-04	8.36E-04	7.89E-03	5.29E-04	3.30E-03	2.25E-03	1.35E-04	1.74E-04	8.36E-04	7.22E-03
8.22E-04	5.01E-03	3.16E-03	1.60E-04	1.07E-03	1.07E-03	1.13E-02	8.22E-04	5.01E-03	3.16E-03	1.60E-04	1.77E-04	1.07E-03	1.04E-02
1.60E-03	8.24E-03	4.03E-03	2.05E-04	9.93E-04	9.93E-04	1.61E-02	1.60E-03	8.24E-03	4.03E-03	2.05E-04	1.77E-04	9.93E-04	1.52E-02
1.10E-02	5.82E-02	4.19E-03	2.51E-04	1.04E-03	1.04E-03	7.57E-02	1.10E-02	5.82E-02	4.19E-03	2.51E-04	2.38E-04	1.04E-03	7.49E-02
2.13E-03	1.12E-02	3.50E-03	2.64E-04	8.74E-04	8.74E-04	1.88E-02	2.13E-03	1.12E-02	3.50E-03	2.64E-04	2.74E-04	8.74E-04	1.82E-02
1.27E-03	6.59E-03	2.91E-03	2.40E-04	7.18E-04	7.18E-04	1.24E-02	1.27E-03	6.59E-03	2.91E-03	2.40E-04	2.27E-04	7.18E-04	1.19E-02
9.85E-04	5.27E-03	2.87E-03	2.26E-04	6.75E-04	6.75E-04	1.07E-02	9.85E-04	5.27E-03	2.87E-03	2.26E-04	2.08E-04	6.75E-04	1.02E-02
7.30E-04	3.85E-03	2.24E-03	1.72E-04	5.44E-04	5.44E-04	8.09E-03	7.30E-04	3.85E-03	2.24E-03	1.72E-04	1.62E-04	5.44E-04	7.71E-03
5.60E-04	2.67E-03	1.62E-03	1.07E-04	4.13E-04	4.13E-04	5.79E-03	5.60E-04	2.67E-03	1.62E-03	1.07E-04	9.14E-05	4.13E-04	5.47E-03
4.69E-04	1.98E-03	1.37E-03	7.89E-05	3.42E-04	3.42E-04	4.58E-03	4.69E-04	1.98E-03	1.37E-03	7.89E-05	6.07E-05	3.42E-04	4.30E-03
4.48E-04	1.86E-03	1.48E-03	8.47E-05	3.82E-04	3.82E-04	4.64E-03	4.48E-04	1.86E-03	1.48E-03	8.47E-05	6.43E-05	3.82E-04	4.33E-03
4.24E-04	1.72E-03	1.55E-03	9.04E-05	4.17E-04	4.17E-04	4.62E-03	4.24E-04	1.72E-03	1.55E-03	9.04E-05	6.83E-05	4.17E-04	4.27E-03
4.14E-04	1.66E-03	1.68E-03	1.02E-04	4.57E-04	4.57E-04	4.77E-03	4.14E-04	1.66E-03	1.68E-03	1.02E-04	8.11E-05	4.57E-04	4.39E-03
4.01E-04	1.58E-03	1.75E-03	1.10E-04	4.90E-04	4.90E-04	4.82E-03	4.01E-04	1.58E-03	1.75E-03	1.10E-04	9.88E-05	4.90E-04	4.43E-03
3.94E-04	1.52E-03	1.86E-03	1.20E-04	5.50E-04	5.50E-04	5.00E-03	3.94E-04	1.52E-03	1.86E-03	1.20E-04	1.21E-04	5.50E-04	4.57E-03
3.78E-04	1.43E-03	1.87E-03	1.23E-04	5.96E-04	5.96E-04	5.00E-03	3.78E-04	1.43E-03	1.87E-03	1.23E-04	1.39E-04	5.96E-04	4.54E-03
3.65E-04	1.34E-03	1.88E-03	1.25E-04	6.32E-04	6.32E-04	4.97E-03	3.65E-04	1.34E-03	1.88E-03	1.25E-04	1.55E-04	6.32E-04	4.49E-03
3.49E-04	1.23E-03	1.83E-03	1.22E-04	6.58E-04	6.58E-04	4.85E-03	3.49E-04	1.23E-03	1.83E-03	1.22E-04	1.63E-04	6.58E-04	4.35E-03
3.49E-04	1.21E-03	1.93E-03	1.30E-04	7.19E-04	7.19E-04	5.06E-03	3.49E-04	1.21E-03	1.93E-03	1.30E-04	1.85E-04	7.19E-04	4.53E-03
3.44E-04	1.18E-03	1.98E-03	1.34E-04	7.64E-04	7.64E-04	5.17E-03	3.44E-04	1.18E-03	1.98E-03	1.34E-04	2.03E-04	7.64E-04	4.61E-03
3.39E-04	1.15E-03	2.03E-03	1.37E-04	8.05E-04	8.05E-04	5.27E-03	3.39E-04	1.15E-03	2.03E-03	1.37E-04	2.19E-04	8.05E-04	4.68E-03
3.33E-04	1.11E-03	2.07E-03	1.39E-04	8.51E-04	8.51E-04	5.35E-03	3.33E-04	1.11E-03	2.07E-03	1.39E-04	2.32E-04	8.51E-04	4.73E-03
3.32E-04	1.10E-03	2.15E-03	1.44E-04	9.21E-04	9.21E-04	5.56E-03	3.32E-04	1.10E-03	2.15E-03	1.44E-04	2.50E-04	9.21E-04	4.89E-03
3.30E-04	1.08E-03	2.21E-03	1.49E-04	9.86E-04	9.86E-04	5.74E-03	3.30E-04	1.08E-03	2.21E-03	1.49E-04	2.65E-04	9.86E-04	5.02E-03
3.24E-04	1.04E-03	2.20E-03	1.47E-04	9.97E-04	9.97E-04	5.71E-03	3.24E-04	1.04E-03	2.20E-03	1.47E-04	2.65E-04	9.97E-04	4.98E-03
3.17E-04	9.96E-04	2.16E-03	1.43E-04	9.94E-04	9.94E-04	5.61E-03	3.17E-04	9.96E-04	2.16E-03	1.43E-04	2.62E-04	9.94E-04	4.88E-03
3.06E-04	9.37E-04	2.06E-03	1.35E-04	9.68E-04	9.68E-04	5.38E-03	3.06E-04	9.37E-04	2.06E-03	1.35E-04	2.51E-04	9.68E-04	4.66E-03
2.93E-04	8.74E-04	1.94E-03	1.26E-04	9.41E-04	9.41E-04	5.11E-03	2.93E-04	8.74E-04	1.94E-03	1.26E-04	2.37E-04	9.41E-04	4.41E-03

2.85E-04	8.32E-04	1.87E-03	1.21E-04	9.36E-04	9.36E-04	4.98E-03	2.85E-04	8.32E-04	1.87E-03	1.21E-04	2.28E-04	9.36E-04	4.27E-03
2.75E-04	7.81E-04	1.77E-03	1.14E-04	9.13E-04	9.13E-04	4.76E-03	2.75E-04	7.81E-04	1.77E-03	1.14E-04	2.16E-04	9.13E-04	4.07E-03
2.62E-04	7.19E-04	1.63E-03	1.04E-04	8.72E-04	8.72E-04	4.46E-03	2.62E-04	7.19E-04	1.63E-03	1.04E-04	1.98E-04	8.72E-04	3.79E-03
2.45E-04	6.39E-04	1.44E-03	9.09E-05	8.10E-04	8.10E-04	4.04E-03	2.45E-04	6.39E-04	1.44E-03	9.09E-05	1.74E-04	8.10E-04	3.40E-03
2.23E-04	5.39E-04	1.23E-03	7.56E-05	7.32E-04	7.32E-04	3.53E-03	2.23E-04	5.39E-04	1.23E-03	7.56E-05	1.46E-04	7.32E-04	2.94E-03
1.88E-04	3.59E-04	8.67E-04	5.11E-05	5.80E-04	5.80E-04	2.63E-03	1.88E-04	3.59E-04	8.67E-04	5.11E-05	1.00E-04	5.80E-04	2.15E-03
1.70E-04	2.78E-04	7.03E-04	4.05E-05	5.10E-04	5.10E-04	2.21E-03	1.70E-04	2.78E-04	7.03E-04	4.05E-05	8.00E-05	5.10E-04	1.78E-03
1.22E-04	4.16E-04	3.24E-04	1.97E-05	2.26E-04	2.26E-04	1.34E-03	1.22E-04	4.16E-04	3.24E-04	1.97E-05	3.51E-05	2.26E-04	1.14E-03
1.28E-04	4.66E-04	3.57E-04	2.17E-05	2.44E-04	2.44E-04	1.46E-03	1.28E-04	4.66E-04	3.57E-04	2.17E-05	3.93E-05	2.44E-04	1.26E-03
1.32E-04	5.01E-04	3.78E-04	2.31E-05	2.54E-04	2.54E-04	1.54E-03	1.32E-04	5.01E-04	3.78E-04	2.31E-05	4.21E-05	2.54E-04	1.33E-03
1.38E-04	5.46E-04	4.07E-04	2.49E-05	2.66E-04	2.66E-04	1.65E-03	1.38E-04	5.46E-04	4.07E-04	2.49E-05	4.56E-05	2.66E-04	1.43E-03
1.41E-04	5.71E-04	4.27E-04	2.63E-05	2.73E-04	2.73E-04	1.71E-03	1.41E-04	5.71E-04	4.27E-04	2.63E-05	4.82E-05	2.73E-04	1.49E-03
1.45E-04	5.98E-04	4.51E-04	2.78E-05	2.81E-04	2.81E-04	1.78E-03	1.45E-04	5.98E-04	4.51E-04	2.78E-05	5.08E-05	2.81E-04	1.55E-03
1.49E-04	6.31E-04	4.85E-04	2.98E-05	2.93E-04	2.93E-04	1.88E-03	1.49E-04	6.31E-04	4.85E-04	2.98E-05	5.41E-05	2.93E-04	1.64E-03
1.53E-04	6.50E-04	5.13E-04	3.17E-05	3.03E-04	3.03E-04	1.95E-03	1.53E-04	6.50E-04	5.13E-04	3.17E-05	5.68E-05	3.03E-04	1.71E-03
1.52E-04	6.10E-04	5.02E-04	3.16E-05	2.96E-04	2.96E-04	1.89E-03	1.52E-04	6.10E-04	5.02E-04	3.16E-05	5.59E-05	2.96E-04	1.65E-03
1.47E-04	4.89E-04	4.38E-04	2.79E-05	2.69E-04	2.69E-04	1.64E-03	1.47E-04	4.89E-04	4.38E-04	2.79E-05	4.88E-05	2.69E-04	1.42E-03
1.42E-04	3.70E-04	3.81E-04	2.37E-05	2.44E-04	2.44E-04	1.41E-03	1.42E-04	3.70E-04	3.81E-04	2.37E-05	4.16E-05	2.44E-04	1.20E-03
1.36E-04	2.43E-04	3.17E-04	1.87E-05	2.16E-04	2.16E-04	1.15E-03	1.36E-04	2.43E-04	3.17E-04	1.87E-05	3.38E-05	2.16E-04	9.65E-04
1.44E-04	2.70E-04	3.46E-04	2.08E-05	2.28E-04	2.28E-04	1.24E-03	1.44E-04	2.70E-04	3.46E-04	2.08E-05	3.73E-05	2.28E-04	1.05E-03
1.54E-04	3.33E-04	3.96E-04	2.45E-05	2.49E-04	2.49E-04	1.41E-03	1.54E-04	3.33E-04	3.96E-04	2.45E-05	4.30E-05	2.49E-04	1.20E-03
1.60E-04	3.52E-04	4.24E-04	2.62E-05	2.61E-04	2.61E-04	1.48E-03	1.60E-04	3.52E-04	4.24E-04	2.62E-05	4.58E-05	2.61E-04	1.27E-03
1.47E-04	2.00E-04	3.32E-04	1.85E-05	2.16E-04	2.16E-04	1.13E-03	1.47E-04	2.00E-04	3.32E-04	1.85E-05	3.34E-05	2.16E-04	9.48E-04
1.67E-04	3.26E-04	4.44E-04	2.60E-05	2.60E-04	2.60E-04	1.48E-03	1.67E-04	3.26E-04	4.44E-04	2.60E-05	4.46E-05	2.60E-04	1.27E-03
2.17E-04	7.49E-04	7.88E-04	5.26E-05	3.82E-04	3.82E-04	2.57E-03	2.17E-04	7.49E-04	7.88E-04	5.26E-05	8.01E-05	3.82E-04	2.27E-03
2.70E-04	1.14E-03	1.19E-03	8.03E-05	4.93E-04	4.93E-04	3.67E-03	2.70E-04	1.14E-03	1.19E-03	8.03E-05	1.15E-04	4.93E-04	3.29E-03
3.66E-04	1.87E-03	2.16E-03	1.25E-04	7.05E-04	7.05E-04	5.93E-03	3.66E-04	1.87E-03	2.16E-03	1.25E-04	1.63E-04	7.05E-04	5.39E-03
4.70E-04	2.42E-03	3.09E-03	1.64E-04	9.32E-04	9.32E-04	8.02E-03	4.70E-04	2.42E-03	3.09E-03	1.64E-04	1.94E-04	9.32E-04	7.28E-03
6.74E-04	3.05E-03	4.45E-03	2.07E-04	1.40E-03	1.40E-03	1.12E-02	6.74E-04	3.05E-03	4.45E-03	2.07E-04	2.21E-04	1.40E-03	1.00E-02
1.14E-03	3.53E-03	6.63E-03	3.15E-04	1.38E-03	1.38E-03	1.44E-02	1.14E-03	3.53E-03	6.63E-03	3.15E-04	2.49E-04	1.38E-03	1.33E-02
1.39E-02	3.71E-03	3.16E-02	1.52E-03	1.26E-03	1.26E-03	5.33E-02	1.39E-02	3.71E-03	3.16E-02	1.52E-03	2.66E-04	1.26E-03	5.23E-02
3.05E-03	3.58E-03	1.21E-02	9.05E-04	1.15E-03	1.15E-03	2.19E-02	3.05E-03	3.58E-03	1.21E-02	9.05E-04	3.56E-04	1.15E-03	2.11E-02
1.70E-03	3.40E-03	8.51E-03	5.95E-04	1.11E-03	1.11E-03	1.64E-02	1.70E-03	3.40E-03	8.51E-03	5.95E-04	3.93E-04	1.11E-03	1.57E-02
1.13E-03	2.87E-03	5.71E-03	4.02E-04	8.64E-04	8.64E-04	1.18E-02	1.13E-03	2.87E-03	5.71E-03	4.02E-04	2.95E-04	8.64E-04	1.13E-02
8.09E-04	2.33E-03	3.94E-03	2.54E-04	6.66E-04	6.66E-04	8.67E-03	8.09E-04	2.33E-03	3.94E-03	2.54E-04	1.87E-04	6.66E-04	8.19E-03
5.81E-04	1.75E-03	2.77E-03	1.53E-04	5.05E-04	5.05E-04	6.26E-03	5.81E-04	1.75E-03	2.77E-03	1.53E-04	9.94E-05	5.05E-04	5.86E-03
5.43E-04	1.78E-03	2.97E-03	1.76E-04	5.92E-04	5.92E-04	6.66E-03	5.43E-04	1.78E-03	2.97E-03	1.76E-04	1.12E-04	5.92E-04	6.18E-03
4.99E-04	1.61E-03	2.90E-03	1.81E-04	6.17E-04	6.17E-04	6.43E-03	4.99E-04	1.61E-03	2.90E-03	1.81E-04	1.15E-04	6.17E-04	5.93E-03
4.64E-04	1.47E-03	2.76E-03	1.78E-04	6.59E-04	6.59E-04	6.19E-03	4.64E-04	1.47E-03	2.76E-03	1.78E-04	1.27E-04	6.59E-04	5.66E-03
4.53E-04	1.45E-03	2.84E-03	1.91E-04	7.39E-04	7.39E-04	6.41E-03	4.53E-04	1.45E-03	2.84E-03	1.91E-04	1.62E-04	7.39E-04	5.83E-03
4.57E-04	1.49E-03	3.09E-03	2.18E-04	8.49E-04	8.49E-04	6.95E-03	4.57E-04	1.49E-03	3.09E-03	2.18E-04	2.18E-04	8.49E-04	6.32E-03
4.44E-04	1.45E-03	3.15E-03	2.26E-04	9.34E-04	9.34E-04	7.14E-03	4.44E-04	1.45E-03	3.15E-03	2.26E-04	2.57E-04	9.34E-04	6.46E-03
4.40E-04	1.43E-03	3.29E-03	2.37E-04	1.05E-03	1.05E-03	7.50E-03	4.40E-04	1.43E-03	3.29E-03	2.37E-04	3.06E-04	1.05E-03	6.76E-03
4.12E-04	1.32E-03	3.08E-03	2.21E-04	1.05E-03	1.05E-03	7.15E-03	4.12E-04	1.32E-03	3.08E-03	2.21E-04	3.10E-04	1.05E-03	6.40E-03
4.02E-04	1.28E-03	3.09E-03	2.20E-04	1.12E-03	1.12E-03	7.24E-03	4.02E-04	1.28E-03	3.09E-03	2.20E-04	3.33E-04	1.12E-03	6.45E-03
3.85E-04	1.21E-03	3.00E-03	2.12E-04	1.14E-03	1.14E-03	7.09E-03	3.85E-04	1.21E-03	3.00E-03	2.12E-04	3.39E-04	1.14E-03	6.29E-03
3.75E-04	1.16E-03	2.97E-03	2.09E-04	1.16E-03	1.16E-03	7.03E-03	3.75E-04	1.16E-03	2.97E-03	2.09E-04	3.50E-04	1.16E-03	6.22E-03
3.67E-04	1.13E-03	2.96E-03	2.06E-04	1.20E-03	1.20E-03	7.05E-03	3.67E-04	1.13E-03	2.96E-03	2.06E-04	3.61E-04	1.20E-03	6.21E-03
3.60E-04	1.09E-03	2.93E-03	2.03E-04	1.24E-03	1.24E-03	7.07E-03	3.60E-04	1.09E-03	2.93E-03	2.03E-04	3.67E-04	1.24E-03	6.19E-03
3.58E-04	1.08E-03	3.00E-03	2.05E-04	1.32E-03	1.32E-03	7.28E-03	3.58E-04	1.08E-03	3.00E-03	2.05E-04	3.81E-04	1.32E-03	6.34E-03
3.53E-04	1.05E-03	3.00E-03	2.02E-04	1.35E-03	1.35E-03	7.29E-03	3.53E-04	1.05E-03	3.00E-03	2.02E-04	3.82E-04	1.35E-03	6.33E-03
3.42E-04	1.01E-03	2.89E-03	1.93E-04	1.32E-03	1.32E-03	7.07E-03	3.42E-04	1.01E-03	2.89E-03	1.93E-04	3.70E-04	1.32E-03	6.12E-03
3.30E-04	9.56E-04	2.75E-03	1.82E-04	1.28E-03	1.28E-03	6.78E-03	3.30E-04	9.56E-04	2.75E-03	1.82E-04	3.51E-04	1.28E-03	5.85E-03
3.20E-04	9.15E-04	2.63E-03	1.73E-04	1.27E-03	1.27E-03	6.58E-03	3.20E-04	9.15E-04	2.63E-03	1.73E-04	3.35E-04	1.27E-03	5.65E-03

3.08E-04	8.64E-04	2.46E-03	1.61E-04	1.23E-03	1.23E-03	6.25E-03	3.08E-04	8.64E-04	2.46E-03	1.61E-04	3.12E-04	1.23E-03	5.33E-03
2.86E-04	7.75E-04	2.14E-03	1.39E-04	1.10E-03	1.10E-03	5.54E-03	2.86E-04	7.75E-04	2.14E-03	1.39E-04	2.68E-04	1.10E-03	4.71E-03
2.68E-04	6.99E-04	1.89E-03	1.22E-04	1.02E-03	1.02E-03	5.01E-03	2.68E-04	6.99E-04	1.89E-03	1.22E-04	2.34E-04	1.02E-03	4.23E-03
2.56E-04	6.47E-04	1.73E-03	1.10E-04	9.71E-04	9.71E-04	4.69E-03	2.56E-04	6.47E-04	1.73E-03	1.10E-04	2.13E-04	9.71E-04	3.93E-03
2.36E-04	5.59E-04	1.48E-03	9.26E-05	8.82E-04	8.82E-04	4.13E-03	2.36E-04	5.59E-04	1.48E-03	9.26E-05	1.80E-04	8.82E-04	3.43E-03
2.20E-04	4.83E-04	1.29E-03	7.88E-05	8.09E-04	8.09E-04	3.69E-03	2.20E-04	4.83E-04	1.29E-03	7.88E-05	1.54E-04	8.09E-04	3.03E-03
1.98E-04	3.82E-04	1.04E-03	6.20E-05	7.09E-04	7.09E-04	3.10E-03	1.98E-04	3.82E-04	1.04E-03	6.20E-05	1.22E-04	7.09E-04	2.51E-03
1.85E-04	3.25E-04	8.98E-04	5.27E-05	6.48E-04	6.48E-04	2.76E-03	1.85E-04	3.25E-04	8.98E-04	5.27E-05	1.04E-04	6.48E-04	2.21E-03
1.18E-04	4.03E-04	3.37E-04	2.02E-05	2.30E-04	2.30E-04	1.34E-03	1.18E-04	4.03E-04	3.37E-04	2.02E-05	3.43E-05	2.30E-04	1.14E-03
1.24E-04	4.46E-04	3.71E-04	2.22E-05	2.49E-04	2.49E-04	1.46E-03	1.24E-04	4.46E-04	3.71E-04	2.22E-05	3.75E-05	2.49E-04	1.25E-03
1.28E-04	4.80E-04	3.96E-04	2.37E-05	2.63E-04	2.63E-04	1.55E-03	1.28E-04	4.80E-04	3.96E-04	2.37E-05	4.03E-05	2.63E-04	1.33E-03
1.31E-04	5.05E-04	4.14E-04	2.51E-05	2.74E-04	2.74E-04	1.62E-03	1.31E-04	5.05E-04	4.14E-04	2.51E-05	4.29E-05	2.74E-04	1.39E-03
1.35E-04	5.38E-04	4.41E-04	2.69E-05	2.88E-04	2.88E-04	1.72E-03	1.35E-04	5.38E-04	4.41E-04	2.69E-05	4.64E-05	2.88E-04	1.48E-03
1.40E-04	5.78E-04	4.76E-04	2.91E-05	3.05E-04	3.05E-04	1.83E-03	1.40E-04	5.78E-04	4.76E-04	2.91E-05	5.07E-05	3.05E-04	1.58E-03
1.45E-04	6.11E-04	5.14E-04	3.14E-05	3.19E-04	3.19E-04	1.94E-03	1.45E-04	6.11E-04	5.14E-04	3.14E-05	5.51E-05	3.19E-04	1.68E-03
1.42E-04	5.74E-04	4.95E-04	3.12E-05	3.09E-04	3.09E-04	1.86E-03	1.42E-04	5.74E-04	4.95E-04	3.12E-05	5.51E-05	3.09E-04	1.61E-03
1.36E-04	4.72E-04	4.32E-04	2.80E-05	2.82E-04	2.82E-04	1.63E-03	1.36E-04	4.72E-04	4.32E-04	2.80E-05	4.98E-05	2.82E-04	1.40E-03
1.22E-04	2.77E-04	3.21E-04	1.96E-05	2.30E-04	2.30E-04	1.20E-03	1.22E-04	2.77E-04	3.21E-04	1.96E-05	3.54E-05	2.30E-04	1.00E-03
1.22E-04	2.25E-04	3.02E-04	1.77E-05	2.21E-04	2.21E-04	1.11E-03	1.22E-04	2.25E-04	3.02E-04	1.77E-05	3.23E-05	2.21E-04	9.20E-04
1.25E-04	2.00E-04	3.01E-04	1.72E-05	2.21E-04	2.21E-04	1.09E-03	1.25E-04	2.00E-04	3.01E-04	1.72E-05	3.15E-05	2.21E-04	8.96E-04
1.29E-04	1.86E-04	3.08E-04	1.72E-05	2.24E-04	2.24E-04	1.09E-03	1.29E-04	1.86E-04	3.08E-04	1.72E-05	3.16E-05	2.24E-04	8.95E-04
1.34E-04	1.81E-04	3.21E-04	1.78E-05	2.29E-04	2.29E-04	1.11E-03	1.34E-04	1.81E-04	3.21E-04	1.78E-05	3.26E-05	2.29E-04	9.16E-04
1.45E-04	2.25E-04	3.74E-04	2.13E-05	2.52E-04	2.52E-04	1.27E-03	1.45E-04	2.25E-04	3.74E-04	2.13E-05	3.86E-05	2.52E-04	1.06E-03
1.51E-04	2.46E-04	4.13E-04	2.37E-05	2.69E-04	2.69E-04	1.37E-03	1.51E-04	2.46E-04	4.13E-04	2.37E-05	4.28E-05	2.69E-04	1.15E-03
1.76E-04	4.57E-04	6.12E-04	3.86E-05	3.55E-04	3.55E-04	1.99E-03	1.76E-04	4.57E-04	6.12E-04	3.86E-05	6.66E-05	3.55E-04	1.70E-03
1.96E-04	6.08E-04	7.99E-04	5.27E-05	4.27E-04	4.27E-04	2.51E-03	1.96E-04	6.08E-04	7.99E-04	5.27E-05	8.83E-05	4.27E-04	2.17E-03
2.34E-04	8.47E-04	1.15E-03	7.85E-05	5.42E-04	5.42E-04	3.40E-03	2.34E-04	8.47E-04	1.15E-03	7.85E-05	1.23E-04	5.42E-04	2.98E-03
3.02E-04	1.25E-03	1.97E-03	1.26E-04	7.41E-04	7.41E-04	5.13E-03	3.02E-04	1.25E-03	1.97E-03	1.26E-04	1.82E-04	7.41E-04	4.57E-03
3.96E-04	1.66E-03	3.32E-03	1.81E-04	9.82E-04	9.82E-04	7.52E-03	3.96E-04	1.66E-03	3.32E-03	1.81E-04	2.32E-04	9.82E-04	6.77E-03
5.77E-04	2.07E-03	5.96E-03	2.43E-04	1.79E-03	1.79E-03	1.24E-02	5.77E-04	2.07E-03	5.96E-03	2.43E-04	2.64E-04	1.79E-03	1.09E-02
8.85E-04	2.14E-03	9.53E-03	3.43E-04	2.05E-03	2.05E-03	1.70E-02	8.85E-04	2.14E-03	9.53E-03	3.43E-04	3.05E-04	2.05E-03	1.52E-02
8.85E-03	2.13E-03	3.80E-02	7.17E-04	1.83E-03	1.83E-03	5.34E-02	8.85E-03	2.13E-03	3.80E-02	7.17E-04	3.81E-04	1.83E-03	5.19E-02
3.72E-03	2.08E-03	4.12E-02	2.08E-03	1.61E-03	1.61E-03	5.23E-02	3.72E-03	2.08E-03	4.12E-02	2.08E-03	4.62E-04	1.61E-03	5.12E-02
4.38E-03	1.89E-03	1.70E-02	1.06E-03	1.48E-03	1.48E-03	2.73E-02	4.38E-03	1.89E-03	1.70E-02	1.06E-03	5.55E-04	1.48E-03	2.64E-02
1.70E-03	1.60E-03	9.80E-03	6.29E-04	1.20E-03	1.20E-03	1.61E-02	1.70E-03	1.60E-03	9.80E-03	6.29E-04	3.93E-04	1.20E-03	1.53E-02
1.02E-03	1.33E-03	6.67E-03	3.96E-04	9.30E-04	9.30E-04	1.13E-02	1.02E-03	1.33E-03	6.67E-03	3.96E-04	2.08E-04	9.30E-04	1.06E-02
9.19E-04	1.52E-03	7.11E-03	5.24E-04	1.10E-03	1.10E-03	1.23E-02	9.19E-04	1.52E-03	7.11E-03	5.24E-04	2.48E-04	1.10E-03	1.14E-02
7.02E-04	1.36E-03	5.55E-03	4.19E-04	1.03E-03	1.03E-03	1.01E-02	7.02E-04	1.36E-03	5.55E-03	4.19E-04	2.18E-04	1.03E-03	9.28E-03
6.30E-04	1.42E-03	5.52E-03	4.39E-04	1.18E-03	1.18E-03	1.04E-02	6.30E-04	1.42E-03	5.52E-03	4.39E-04	2.99E-04	1.18E-03	9.48E-03
5.49E-04	1.33E-03	4.99E-03	3.95E-04	1.25E-03	1.25E-03	9.76E-03	5.49E-04	1.33E-03	4.99E-03	3.95E-04	3.43E-04	1.25E-03	8.86E-03
5.23E-04	1.31E-03	4.96E-03	3.95E-04	1.40E-03	1.40E-03	1.00E-02	5.23E-04	1.31E-03	4.96E-03	3.95E-04	4.19E-04	1.40E-03	9.01E-03
5.18E-04	1.34E-03	5.12E-03	4.06E-04	1.54E-03	1.54E-03	1.05E-02	5.18E-04	1.34E-03	5.12E-03	4.06E-04	5.08E-04	1.54E-03	9.44E-03
5.04E-04	1.34E-03	5.11E-03	3.98E-04	1.65E-03	1.65E-03	1.07E-02	5.04E-04	1.34E-03	5.11E-03	3.98E-04	5.65E-04	1.65E-03	9.57E-03
4.86E-04	1.31E-03	5.05E-03	3.85E-04	1.74E-03	1.74E-03	1.07E-02	4.86E-04	1.31E-03	5.05E-03	3.85E-04	6.03E-04	1.74E-03	9.57E-03
4.66E-04	1.27E-03	4.91E-03	3.68E-04	1.79E-03	1.79E-03	1.06E-02	4.66E-04	1.27E-03	4.91E-03	3.68E-04	6.17E-04	1.79E-03	9.43E-03
4.46E-04	1.22E-03	4.71E-03	3.47E-04	1.82E-03	1.82E-03	1.04E-02	4.46E-04	1.22E-03	4.71E-03	3.47E-04	6.12E-04	1.82E-03	9.16E-03
4.25E-04	1.17E-03	4.46E-03	3.24E-04	1.77E-03	1.77E-03	9.91E-03	4.25E-04	1.17E-03	4.46E-03	3.24E-04	5.94E-04	1.77E-03	8.74E-03
3.79E-04	1.02E-03	3.66E-03	2.65E-04	1.52E-03	1.52E-03	8.36E-03	3.79E-04	1.02E-03	3.66E-03	2.65E-04	4.93E-04	1.52E-03	7.34E-03
3.86E-04	1.05E-03	3.92E-03	2.78E-04	1.68E-03	1.68E-03	8.98E-03	3.86E-04	1.05E-03	3.92E-03	2.78E-04	5.34E-04	1.68E-03	7.83E-03
3.87E-04	1.05E-03	4.06E-03	2.82E-04	1.79E-03	1.79E-03	9.36E-03	3.87E-04	1.05E-03	4.06E-03	2.82E-04	5.54E-04	1.79E-03	8.12E-03
3.81E-04	1.03E-03	4.03E-03	2.74E-04	1.81E-03	1.81E-03	9.34E-03	3.81E-04	1.03E-03	4.03E-03	2.74E-04	5.47E-04	1.81E-03	8.07E-03
3.70E-04	9.92E-04	3.86E-03	2.59E-04	1.76E-03	1.76E-03	9.01E-03	3.70E-04	9.92E-04	3.86E-03	2.59E-04	5.20E-04	1.76E-03	7.77E-03
3.56E-04	9.48E-04	3.63E-03	2.42E-04	1.71E-03	1.71E-03	8.58E-03	3.56E-04	9.48E-04	3.63E-03	2.42E-04	4.84E-04	1.71E-03	7.36E-03
3.43E-04	9.03E-04	3.38E-03	2.24E-04	1.65E-03	1.65E-03	8.16E-03	3.43E-04	9.03E-04	3.38E-03	2.24E-04	4.49E-04	1.65E-03	6.96E-03

3.30E-04	8.61E-04	3.16E-03	2.08E-04	1.59E-03	1.59E-03	7.74E-03	3.30E-04	8.61E-04	3.16E-03	2.08E-04	4.15E-04	1.59E-03	6.57E-03
3.00E-04	7.52E-04	2.59E-03	1.70E-04	1.35E-03	1.35E-03	6.52E-03	3.00E-04	7.52E-04	2.59E-03	1.70E-04	3.36E-04	1.35E-03	5.51E-03
2.67E-04	6.30E-04	2.08E-03	1.34E-04	1.15E-03	1.15E-03	5.41E-03	2.67E-04	6.30E-04	2.08E-03	1.34E-04	2.64E-04	1.15E-03	4.53E-03
2.46E-04	5.45E-04	1.77E-03	1.12E-04	1.03E-03	1.03E-03	4.74E-03	2.46E-04	5.45E-04	1.77E-03	1.12E-04	2.20E-04	1.03E-03	3.92E-03
2.34E-04	5.05E-04	1.61E-03	1.01E-04	9.86E-04	9.86E-04	4.42E-03	2.34E-04	5.05E-04	1.61E-03	1.01E-04	1.98E-04	9.86E-04	3.63E-03
2.21E-04	4.50E-04	1.42E-03	8.72E-05	9.14E-04	9.14E-04	4.01E-03	2.21E-04	4.50E-04	1.42E-03	8.72E-05	1.72E-04	9.14E-04	3.27E-03
2.00E-04	3.60E-04	1.15E-03	6.86E-05	7.99E-04	7.99E-04	3.38E-03	2.00E-04	3.60E-04	1.15E-03	6.86E-05	1.35E-04	7.99E-04	2.71E-03
2.02E-04	3.77E-04	1.16E-03	6.96E-05	8.19E-04	8.19E-04	3.45E-03	2.02E-04	3.77E-04	1.16E-03	6.96E-05	1.37E-04	8.19E-04	2.77E-03
1.91E-04	3.30E-04	1.02E-03	5.98E-05	7.52E-04	7.52E-04	3.10E-03	1.91E-04	3.30E-04	1.02E-03	5.98E-05	1.18E-04	7.52E-04	2.47E-03
1.17E-04	3.97E-04	3.43E-04	2.07E-05	2.35E-04	2.35E-04	1.35E-03	1.17E-04	3.97E-04	3.43E-04	2.07E-05	3.60E-05	2.35E-04	1.15E-03
1.21E-04	4.27E-04	3.71E-04	2.23E-05	2.50E-04	2.50E-04	1.44E-03	1.21E-04	4.27E-04	3.71E-04	2.23E-05	3.87E-05	2.50E-04	1.23E-03
1.24E-04	4.54E-04	3.96E-04	2.38E-05	2.64E-04	2.64E-04	1.53E-03	1.24E-04	4.54E-04	3.96E-04	2.38E-05	4.11E-05	2.64E-04	1.30E-03
1.25E-04	4.63E-04	4.08E-04	2.47E-05	2.71E-04	2.71E-04	1.56E-03	1.25E-04	4.63E-04	4.08E-04	2.47E-05	4.25E-05	2.71E-04	1.33E-03
1.30E-04	5.02E-04	4.48E-04	2.70E-05	2.93E-04	2.93E-04	1.69E-03	1.30E-04	5.02E-04	4.48E-04	2.70E-05	4.63E-05	2.93E-04	1.45E-03
1.34E-04	5.37E-04	4.88E-04	2.93E-05	3.14E-04	3.14E-04	1.82E-03	1.34E-04	5.37E-04	4.88E-04	2.93E-05	5.00E-05	3.14E-04	1.55E-03
1.41E-04	5.82E-04	5.41E-04	3.23E-05	3.42E-04	3.42E-04	1.98E-03	1.41E-04	5.82E-04	5.41E-04	3.23E-05	5.50E-05	3.42E-04	1.69E-03
1.31E-04	4.80E-04	4.53E-04	2.89E-05	3.03E-04	3.03E-04	1.70E-03	1.31E-04	4.80E-04	4.53E-04	2.89E-05	4.97E-05	3.03E-04	1.45E-03
1.21E-04	3.45E-04	3.64E-04	2.33E-05	2.60E-04	2.60E-04	1.37E-03	1.21E-04	3.45E-04	3.64E-04	2.33E-05	4.06E-05	2.60E-04	1.15E-03
1.13E-04	2.23E-04	2.92E-04	1.75E-05	2.25E-04	2.25E-04	1.10E-03	1.13E-04	2.23E-04	2.92E-04	1.75E-05	3.14E-05	2.25E-04	9.02E-04
1.03E-04	1.04E-04	2.10E-04	1.12E-05	1.85E-04	1.85E-04	7.98E-04	1.03E-04	1.04E-04	2.10E-04	1.12E-05	2.13E-05	1.85E-04	6.35E-04
1.05E-04	9.47E-05	2.13E-04	1.12E-05	1.88E-04	1.88E-04	8.00E-04	1.05E-04	9.47E-05	2.13E-04	1.12E-05	2.15E-05	1.88E-04	6.34E-04
1.15E-04	1.24E-04	2.57E-04	1.39E-05	2.12E-04	2.12E-04	9.34E-04	1.15E-04	1.24E-04	2.57E-04	1.39E-05	2.61E-05	2.12E-04	7.48E-04
1.24E-04	1.53E-04	3.01E-04	1.66E-05	2.35E-04	2.35E-04	1.06E-03	1.24E-04	1.53E-04	3.01E-04	1.66E-05	3.07E-05	2.35E-04	8.60E-04
1.40E-04	2.34E-04	3.98E-04	2.30E-05	2.82E-04	2.82E-04	1.36E-03	1.40E-04	2.34E-04	3.98E-04	2.30E-05	4.13E-05	2.82E-04	1.12E-03
1.62E-04	3.69E-04	5.57E-04	3.43E-05	3.51E-04	3.51E-04	1.82E-03	1.62E-04	3.69E-04	5.57E-04	3.43E-05	5.85E-05	3.51E-04	1.53E-03
1.84E-04	5.42E-04	7.87E-04	5.17E-05	4.48E-04	4.48E-04	2.46E-03	1.84E-04	5.42E-04	7.87E-04	5.17E-05	8.63E-05	4.48E-04	2.10E-03
2.11E-04	7.37E-04	1.11E-03	7.59E-05	5.78E-04	5.78E-04	3.29E-03	2.11E-04	7.37E-04	1.11E-03	7.59E-05	1.25E-04	5.78E-04	2.83E-03
2.37E-04	8.88E-04	1.50E-03	1.02E-04	7.22E-04	7.22E-04	4.17E-03	2.37E-04	8.88E-04	1.50E-03	1.02E-04	1.67E-04	7.22E-04	3.61E-03
2.91E-04	1.15E-03	2.43E-03	1.46E-04	9.84E-04	9.84E-04	5.99E-03	2.91E-04	1.15E-03	2.43E-03	1.46E-04	2.30E-04	9.84E-04	5.24E-03
3.51E-04	1.31E-03	3.46E-03	1.90E-04	1.22E-03	1.22E-03	7.75E-03	3.51E-04	1.31E-03	3.46E-03	1.90E-04	2.80E-04	1.22E-03	6.81E-03
3.96E-04	1.24E-03	3.85E-03	2.24E-04	1.31E-03	1.31E-03	8.33E-03	3.96E-04	1.24E-03	3.85E-03	2.24E-04	3.11E-04	1.31E-03	7.33E-03
6.55E-04	1.56E-03	9.93E-03	3.29E-04	3.45E-03	3.45E-03	1.94E-02	6.55E-04	1.56E-03	9.93E-03	3.29E-04	3.93E-04	3.45E-03	1.63E-02
1.30E-03	1.54E-03	2.04E-02	4.93E-04	4.75E-03	4.75E-03	3.32E-02	1.30E-03	1.54E-03	2.04E-02	4.93E-04	5.07E-04	4.75E-03	2.90E-02
5.17E-03	1.54E-03	1.16E-01	8.41E-04	4.91E-03	4.91E-03	1.33E-01	5.17E-03	1.54E-03	1.16E-01	8.41E-04	6.88E-04	4.91E-03	1.29E-01
2.01E-03	1.51E-03	1.02E-01	2.79E-03	4.28E-03	4.28E-03	1.17E-01	2.01E-03	1.51E-03	1.02E-01	2.79E-03	1.02E-03	4.28E-03	1.14E-01
5.82E-03	1.39E-03	3.34E-02	1.09E-02	3.61E-03	3.61E-03	5.87E-02	5.82E-03	1.39E-03	3.34E-02	1.09E-02	1.23E-03	3.61E-03	5.64E-02
3.79E-03	1.34E-03	2.11E-02	4.45E-03	3.07E-03	3.07E-03	3.69E-02	3.79E-03	1.34E-03	2.11E-02	4.45E-03	1.03E-03	3.07E-03	3.48E-02
1.65E-03	1.28E-03	1.58E-02	2.17E-03	3.12E-03	3.12E-03	2.71E-02	1.65E-03	1.28E-03	1.58E-02	2.17E-03	1.22E-03	3.12E-03	2.52E-02
1.10E-03	1.24E-03	1.22E-02	1.39E-03	3.00E-03	3.00E-03	2.20E-02	1.10E-03	1.24E-03	1.22E-02	1.39E-03	1.25E-03	3.00E-03	2.02E-02
8.47E-04	1.21E-03	9.98E-03	1.01E-03	2.83E-03	2.83E-03	1.87E-02	8.47E-04	1.21E-03	9.98E-03	1.01E-03	1.16E-03	2.83E-03	1.70E-02
7.06E-04	1.20E-03	8.62E-03	8.04E-04	2.69E-03	2.69E-03	1.67E-02	7.06E-04	1.20E-03	8.62E-03	8.04E-04	1.09E-03	2.69E-03	1.51E-02
6.36E-04	1.24E-03	8.28E-03	7.32E-04	2.81E-03	2.81E-03	1.65E-02	6.36E-04	1.24E-03	8.28E-03	7.32E-04	1.13E-03	2.81E-03	1.48E-02
5.88E-04	1.24E-03	7.98E-03	6.73E-04	2.83E-03	2.83E-03	1.61E-02	5.88E-04	1.24E-03	7.98E-03	6.73E-04	1.15E-03	2.83E-03	1.45E-02
5.59E-04	1.21E-03	7.73E-03	6.24E-04	2.87E-03	2.87E-03	1.59E-02	5.59E-04	1.21E-03	7.73E-03	6.24E-04	1.15E-03	2.87E-03	1.41E-02
5.41E-04	1.20E-03	7.57E-03	5.85E-04	2.91E-03	2.91E-03	1.57E-02	5.41E-04	1.20E-03	7.57E-03	5.85E-04	1.15E-03	2.91E-03	1.40E-02
5.18E-04	1.17E-03	7.18E-03	5.38E-04	2.88E-03	2.88E-03	1.52E-02	5.18E-04	1.17E-03	7.18E-03	5.38E-04	1.09E-03	2.88E-03	1.34E-02
4.84E-04	1.11E-03	6.48E-03	4.81E-04	2.69E-03	2.69E-03	1.39E-02	4.84E-04	1.11E-03	6.48E-03	4.81E-04	9.88E-04	2.69E-03	1.22E-02
4.13E-04	9.42E-04	4.89E-03	3.65E-04	2.09E-03	2.09E-03	1.08E-02	4.13E-04	9.42E-04	4.89E-03	3.65E-04	7.40E-04	2.09E-03	9.44E-03
3.44E-04	7.39E-04	3.57E-03	2.56E-04	1.62E-03	1.62E-03	8.15E-03	3.44E-04	7.39E-04	3.57E-03	2.56E-04	5.20E-04	1.62E-03	7.05E-03
3.51E-04	7.87E-04	3.76E-03	2.69E-04	1.74E-03	1.74E-03	8.65E-03	3.51E-04	7.87E-04	3.76E-03	2.69E-04	5.50E-04	1.74E-03	7.46E-03
4.11E-04	9.78E-04	5.21E-03	3.57E-04	2.38E-03	2.38E-03	1.17E-02	4.11E-04	9.78E-04	5.21E-03	3.57E-04	7.57E-04	2.38E-03	1.01E-02
4.04E-04	9.65E-04	5.10E-03	3.40E-04	2.37E-03	2.37E-03	1.15E-02	4.04E-04	9.65E-04	5.10E-03	3.40E-04	7.22E-04	2.37E-03	9.90E-03
3.88E-04	9.30E-04	4.76E-03	3.14E-04	2.29E-03	2.29E-03	1.10E-02	3.88E-04	9.30E-04	4.76E-03	3.14E-04	6.63E-04	2.29E-03	9.34E-03
3.70E-04	8.86E-04	4.35E-03	2.87E-04	2.17E-03	2.17E-03	1.02E-02	3.70E-04	8.86E-04	4.35E-03	2.87E-04	5.99E-04	2.17E-03	8.66E-03

3.55E-04	8.48E-04	4.02E-03	2.63E-04	2.06E-03	2.06E-03	9.60E-03	3.55E-04	8.48E-04	4.02E-03	2.63E-04	5.47E-04	2.06E-03	8.09E-03
3.13E-04	7.21E-04	3.11E-03	2.06E-04	1.67E-03	1.67E-03	7.68E-03	3.13E-04	7.21E-04	3.11E-03	2.06E-04	4.19E-04	1.67E-03	6.43E-03
2.69E-04	5.70E-04	2.31E-03	1.49E-04	1.32E-03	1.32E-03	5.94E-03	2.69E-04	5.70E-04	2.31E-03	1.49E-04	3.01E-04	1.32E-03	4.92E-03
2.42E-04	4.70E-04	1.87E-03	1.17E-04	1.14E-03	1.14E-03	4.98E-03	2.42E-04	4.70E-04	1.87E-03	1.17E-04	2.36E-04	1.14E-03	4.08E-03
2.27E-04	4.16E-04	1.63E-03	1.00E-04	1.05E-03	1.05E-03	4.46E-03	2.27E-04	4.16E-04	1.63E-03	1.00E-04	2.01E-04	1.05E-03	3.62E-03
2.07E-04	3.42E-04	1.33E-03	7.99E-05	9.22E-04	9.22E-04	3.80E-03	2.07E-04	3.42E-04	1.33E-03	7.99E-05	1.60E-04	9.22E-04	3.04E-03
1.95E-04	3.01E-04	1.15E-03	6.81E-05	8.42E-04	8.42E-04	3.40E-03	1.95E-04	3.01E-04	1.15E-03	6.81E-05	1.36E-04	8.42E-04	2.69E-03
1.91E-04	2.94E-04	1.09E-03	6.38E-05	8.17E-04	8.17E-04	3.27E-03	1.91E-04	2.94E-04	1.09E-03	6.38E-05	1.27E-04	8.17E-04	2.58E-03
1.98E-04	3.31E-04	1.16E-03	6.86E-05	8.68E-04	8.68E-04	3.49E-03	1.98E-04	3.31E-04	1.16E-03	6.86E-05	1.35E-04	8.68E-04	2.76E-03
1.95E-04	3.30E-04	1.11E-03	6.56E-05	8.54E-04	8.54E-04	3.41E-03	1.95E-04	3.30E-04	1.11E-03	6.56E-05	1.29E-04	8.54E-04	2.69E-03
1.15E-04	3.94E-04	3.48E-04	2.07E-05	2.44E-04	2.44E-04	1.37E-03	1.15E-04	3.94E-04	3.48E-04	2.07E-05	3.70E-05	2.44E-04	1.16E-03
1.17E-04	4.11E-04	3.66E-04	2.18E-05	2.53E-04	2.53E-04	1.42E-03	1.17E-04	4.11E-04	3.66E-04	2.18E-05	3.89E-05	2.53E-04	1.21E-03
1.21E-04	4.43E-04	3.98E-04	2.36E-05	2.71E-04	2.71E-04	1.53E-03	1.21E-04	4.43E-04	3.98E-04	2.36E-05	4.19E-05	2.71E-04	1.30E-03
1.23E-04	4.57E-04	4.17E-04	2.48E-05	2.81E-04	2.81E-04	1.58E-03	1.23E-04	4.57E-04	4.17E-04	2.48E-05	4.40E-05	2.81E-04	1.35E-03
1.28E-04	4.95E-04	4.65E-04	2.72E-05	3.06E-04	3.06E-04	1.73E-03	1.28E-04	4.95E-04	4.65E-04	2.72E-05	4.82E-05	3.06E-04	1.47E-03
1.33E-04	5.26E-04	5.07E-04	2.95E-05	3.28E-04	3.28E-04	1.85E-03	1.33E-04	5.26E-04	5.07E-04	2.95E-05	5.22E-05	3.28E-04	1.58E-03
1.37E-04	5.50E-04	5.46E-04	3.19E-05	3.52E-04	3.52E-04	1.97E-03	1.37E-04	5.50E-04	5.46E-04	3.19E-05	5.62E-05	3.52E-04	1.67E-03
1.28E-04	4.66E-04	4.70E-04	2.90E-05	3.12E-04	3.12E-04	1.72E-03	1.28E-04	4.66E-04	4.70E-04	2.90E-05	5.10E-05	3.12E-04	1.46E-03
1.03E-04	1.80E-04	2.51E-04	1.48E-05	2.07E-04	2.07E-04	9.62E-04	1.03E-04	1.80E-04	2.51E-04	1.48E-05	2.66E-05	2.07E-04	7.82E-04
9.80E-05	1.10E-04	2.03E-04	1.11E-05	1.83E-04	1.83E-04	7.89E-04	9.80E-05	1.10E-04	2.03E-04	1.11E-05	2.05E-05	1.83E-04	6.26E-04
1.04E-04	1.37E-04	2.37E-04	1.33E-05	2.05E-04	2.05E-04	9.01E-04	1.04E-04	1.37E-04	2.37E-04	1.33E-05	2.43E-05	2.05E-04	7.21E-04
1.06E-04	1.23E-04	2.38E-04	1.31E-05	2.08E-04	2.08E-04	8.97E-04	1.06E-04	1.23E-04	2.38E-04	1.31E-05	2.43E-05	2.08E-04	7.13E-04
1.12E-04	1.38E-04	2.66E-04	1.48E-05	2.26E-04	2.26E-04	9.83E-04	1.12E-04	1.38E-04	2.66E-04	1.48E-05	2.73E-05	2.26E-04	7.84E-04
1.24E-04	2.00E-04	3.42E-04	2.00E-05	2.66E-04	2.66E-04	1.22E-03	1.24E-04	2.00E-04	3.42E-04	2.00E-05	3.57E-05	2.66E-04	9.88E-04
1.38E-04	2.78E-04	4.41E-04	2.67E-05	3.15E-04	3.15E-04	1.51E-03	1.38E-04	2.78E-04	4.41E-04	2.67E-05	4.67E-05	3.15E-04	1.25E-03
1.54E-04	3.62E-04	5.59E-04	3.49E-05	3.73E-04	3.73E-04	1.86E-03	1.54E-04	3.62E-04	5.59E-04	3.49E-05	6.01E-05	3.73E-04	1.54E-03
1.73E-04	4.76E-04	7.58E-04	4.95E-05	4.66E-04	4.66E-04	2.39E-03	1.73E-04	4.76E-04	7.58E-04	4.95E-05	8.37E-05	4.66E-04	2.01E-03
1.95E-04	5.82E-04	1.01E-03	6.73E-05	5.72E-04	5.72E-04	2.99E-03	1.95E-04	5.82E-04	1.01E-03	6.73E-05	1.11E-04	5.72E-04	2.53E-03
2.30E-04	7.79E-04	1.55E-03	1.04E-04	7.78E-04	7.78E-04	4.22E-03	2.30E-04	7.79E-04	1.55E-03	1.04E-04	1.69E-04	7.78E-04	3.61E-03
2.79E-04	1.01E-03	2.68E-03	1.54E-04	1.13E-03	1.13E-03	6.39E-03	2.79E-04	1.01E-03	2.68E-03	1.54E-04	2.43E-04	1.13E-03	5.50E-03
3.41E-04	1.18E-03	4.40E-03	2.06E-04	1.73E-03	1.73E-03	9.58E-03	3.41E-04	1.18E-03	4.40E-03	2.06E-04	3.13E-04	1.73E-03	8.17E-03
4.10E-04	1.24E-03	6.37E-03	2.54E-04	2.73E-03	2.73E-03	1.37E-02	4.10E-04	1.24E-03	6.37E-03	2.54E-04	3.78E-04	2.73E-03	1.14E-02
5.00E-04	1.23E-03	8.67E-03	3.06E-04	5.34E-03	5.34E-03	2.14E-02	5.00E-04	1.23E-03	8.67E-03	3.06E-04	4.45E-04	5.34E-03	1.65E-02
6.74E-04	1.23E-03	1.31E-02	4.14E-04	2.14E-02	2.14E-02	5.82E-02	6.74E-04	1.23E-03	1.31E-02	4.14E-04	5.74E-04	2.14E-02	3.74E-02
1.26E-03	1.23E-03	2.19E-02	5.93E-04	2.88E-02	2.88E-02	8.26E-02	1.26E-03	1.23E-03	2.19E-02	5.93E-04	7.81E-04	2.88E-02	5.46E-02
6.76E-03	1.24E-03	9.16E-02	1.00E-03	1.37E-02	1.37E-02	1.28E-01	6.76E-03	1.24E-03	9.16E-02	1.00E-03	1.30E-03	1.37E-02	1.16E-01
1.83E-03	1.23E-03	1.28E-01	2.45E-03	1.01E-02	1.01E-02	1.54E-01	1.83E-03	1.23E-03	1.28E-01	2.45E-03	3.77E-03	1.01E-02	1.48E-01
2.28E-03	1.21E-03	5.83E-02	7.76E-03	4.56E-02	4.56E-02	1.61E-01	2.28E-03	1.21E-03	5.83E-02	7.76E-03	3.72E-02	4.56E-02	1.52E-01
4.06E-03	1.19E-03	3.37E-02	6.14E-03	1.87E-02	1.87E-02	8.24E-02	4.06E-03	1.19E-03	3.37E-02	6.14E-03	1.36E-02	1.87E-02	7.74E-02
1.72E-03	1.13E-03	2.40E-02	2.95E-03	1.04E-02	1.04E-02	5.05E-02	1.72E-03	1.13E-03	2.40E-02	2.95E-03	6.49E-03	1.04E-02	4.67E-02
1.15E-03	1.09E-03	1.75E-02	1.87E-03	7.11E-03	7.11E-03	3.58E-02	1.15E-03	1.09E-03	1.75E-02	1.87E-03	3.93E-03	7.11E-03	3.26E-02
8.93E-04	1.05E-03	1.37E-02	1.34E-03	5.56E-03	5.56E-03	2.81E-02	8.93E-04	1.05E-03	1.37E-02	1.34E-03	2.80E-03	5.56E-03	2.54E-02
7.91E-04	1.09E-03	1.28E-02	1.15E-03	5.30E-03	5.30E-03	2.64E-02	7.91E-04	1.09E-03	1.28E-02	1.15E-03	2.51E-03	5.30E-03	2.36E-02
7.12E-04	1.13E-03	1.19E-02	1.01E-03	4.98E-03	4.98E-03	2.48E-02	7.12E-04	1.13E-03	1.19E-02	1.01E-03	2.27E-03	4.98E-03	2.20E-02
6.50E-04	1.14E-03	1.12E-02	8.98E-04	4.72E-03	4.72E-03	2.34E-02	6.50E-04	1.14E-03	1.12E-02	8.98E-04	2.05E-03	4.72E-03	2.07E-02
6.04E-04	1.12E-03	1.05E-02	8.02E-04	4.49E-03	4.49E-03	2.20E-02	6.04E-04	1.12E-03	1.05E-02	8.02E-04	1.85E-03	4.49E-03	1.94E-02
5.65E-04	1.07E-03	9.74E-03	7.16E-04	4.23E-03	4.23E-03	2.06E-02	5.65E-04	1.07E-03	9.74E-03	7.16E-04	1.66E-03	4.23E-03	1.80E-02
5.30E-04	1.02E-03	8.80E-03	6.35E-04	3.85E-03	3.85E-03	1.87E-02	5.30E-04	1.02E-03	8.80E-03	6.35E-04	1.46E-03	3.85E-03	1.63E-02
5.10E-04	1.00E-03	8.35E-03	5.81E-04	3.73E-03	3.73E-03	1.79E-02	5.10E-04	1.00E-03	8.35E-03	5.81E-04	1.34E-03	3.73E-03	1.55E-02
4.06E-04	7.95E-04	5.40E-03	3.97E-04	2.56E-03	2.56E-03	1.21E-02	4.06E-04	7.95E-04	5.40E-03	3.97E-04	8.69E-04	2.56E-03	1.04E-02
3.70E-04	7.17E-04	4.60E-03	3.29E-04	2.20E-03	2.20E-03	1.04E-02	3.70E-04	7.17E-04	4.60E-03	3.29E-04	7.06E-04	2.20E-03	8.92E-03
4.36E-04	8.98E-04	6.41E-03	4.29E-04	3.03E-03	3.03E-03	1.42E-02	4.36E-04	8.98E-04	6.41E-03	4.29E-04	9.45E-04	3.03E-03	1.22E-02
4.25E-04	8.89E-04	6.12E-03	3.99E-04	3.00E-03	3.00E-03	1.38E-02	4.25E-04	8.89E-04	6.12E-03	3.99E-04	8.71E-04	3.00E-03	1.17E-02
4.06E-04	8.61E-04	5.60E-03	3.63E-04	2.82E-03	2.82E-03	1.29E-02	4.06E-04	8.61E-04	5.60E-03	3.63E-04	7.81E-04	2.82E-03	1.08E-02

3.77E-04	8.06E-04	4.85E-03	3.17E-04	2.53E-03	2.53E-03	1.14E-02	3.77E-04	8.06E-04	4.85E-03	3.17E-04	6.71E-04	2.53E-03	9.55E-03
3.32E-04	6.96E-04	3.74E-03	2.48E-04	2.07E-03	2.07E-03	9.15E-03	3.32E-04	6.96E-04	3.74E-03	2.48E-04	5.14E-04	2.07E-03	7.60E-03
2.86E-04	5.64E-04	2.79E-03	1.81E-04	1.63E-03	1.63E-03	7.07E-03	2.86E-04	5.64E-04	2.79E-03	1.81E-04	3.70E-04	1.63E-03	5.82E-03
2.47E-04	4.33E-04	2.08E-03	1.30E-04	1.31E-03	1.31E-03	5.51E-03	2.47E-04	4.33E-04	2.08E-03	1.30E-04	2.64E-04	1.31E-03	4.46E-03
2.21E-04	3.45E-04	1.64E-03	9.91E-05	1.12E-03	1.12E-03	4.54E-03	2.21E-04	3.45E-04	1.64E-03	9.91E-05	2.01E-04	1.12E-03	3.62E-03
2.04E-04	2.90E-04	1.35E-03	8.02E-05	9.87E-04	9.87E-04	3.90E-03	2.04E-04	2.90E-04	1.35E-03	8.02E-05	1.62E-04	9.87E-04	3.08E-03
2.00E-04	2.86E-04	1.27E-03	7.47E-05	9.57E-04	9.57E-04	3.74E-03	2.00E-04	2.86E-04	1.27E-03	7.47E-05	1.50E-04	9.57E-04	2.94E-03
1.96E-04	2.85E-04	1.20E-03	7.06E-05	9.31E-04	9.31E-04	3.62E-03	1.96E-04	2.85E-04	1.20E-03	7.06E-05	1.41E-04	9.31E-04	2.83E-03
1.96E-04	2.97E-04	1.19E-03	6.94E-05	9.35E-04	9.35E-04	3.62E-03	1.96E-04	2.97E-04	1.19E-03	6.94E-05	1.38E-04	9.35E-04	2.82E-03
2.00E-04	3.20E-04	1.21E-03	7.11E-05	9.59E-04	9.59E-04	3.72E-03	2.00E-04	3.20E-04	1.21E-03	7.11E-05	1.40E-04	9.59E-04	2.90E-03
2.04E-04	3.50E-04	1.25E-03	7.38E-05	9.94E-04	9.94E-04	3.87E-03	2.04E-04	3.50E-04	1.25E-03	7.38E-05	1.45E-04	9.94E-04	3.02E-03
1.12E-04	3.85E-04	3.58E-04	2.12E-05	2.50E-04	2.50E-04	1.38E-03	1.12E-04	3.85E-04	3.58E-04	2.12E-05	3.66E-05	2.50E-04	1.16E-03
1.15E-04	4.02E-04	3.76E-04	2.24E-05	2.60E-04	2.60E-04	1.44E-03	1.15E-04	4.02E-04	3.76E-04	2.24E-05	3.84E-05	2.60E-04	1.21E-03
1.20E-04	4.38E-04	4.16E-04	2.45E-05	2.84E-04	2.84E-04	1.57E-03	1.20E-04	4.38E-04	4.16E-04	2.45E-05	4.19E-05	2.84E-04	1.33E-03
1.21E-04	4.44E-04	4.27E-04	2.55E-05	2.89E-04	2.89E-04	1.60E-03	1.21E-04	4.44E-04	4.27E-04	2.55E-05	4.34E-05	2.89E-04	1.35E-03
1.27E-04	4.87E-04	4.83E-04	2.84E-05	3.21E-04	3.21E-04	1.77E-03	1.27E-04	4.87E-04	4.83E-04	2.84E-05	4.80E-05	3.21E-04	1.49E-03
1.32E-04	5.16E-04	5.28E-04	3.09E-05	3.46E-04	3.46E-04	1.90E-03	1.32E-04	5.16E-04	5.28E-04	3.09E-05	5.19E-05	3.46E-04	1.60E-03
1.35E-04	5.31E-04	5.59E-04	3.31E-05	3.68E-04	3.68E-04	1.99E-03	1.35E-04	5.31E-04	5.59E-04	3.31E-05	5.55E-05	3.68E-04	1.68E-03
1.23E-04	4.25E-04	4.45E-04	2.85E-05	3.03E-04	3.03E-04	1.63E-03	1.23E-04	4.25E-04	4.45E-04	2.85E-05	4.81E-05	3.03E-04	1.37E-03
1.06E-04	2.44E-04	2.97E-04	1.88E-05	2.29E-04	2.29E-04	1.12E-03	1.06E-04	2.44E-04	2.97E-04	1.88E-05	3.27E-05	2.29E-04	9.28E-04
8.79E-05	7.07E-05	1.55E-04	8.18E-06	1.54E-04	1.54E-04	6.30E-04	8.79E-05	7.07E-05	1.55E-04	8.18E-06	1.55E-05	1.54E-04	4.92E-04
9.11E-05	7.43E-05	1.68E-04	8.84E-06	1.65E-04	1.65E-04	6.73E-04	9.11E-05	7.43E-05	1.68E-04	8.84E-06	1.67E-05	1.65E-04	5.24E-04
1.04E-04	1.33E-04	2.41E-04	1.36E-05	2.12E-04	2.12E-04	9.15E-04	1.04E-04	1.33E-04	2.41E-04	1.36E-05	2.47E-05	2.12E-04	7.27E-04
1.13E-04	1.70E-04	2.89E-04	1.69E-05	2.43E-04	2.43E-04	1.07E-03	1.13E-04	1.70E-04	2.89E-04	1.69E-05	3.05E-05	2.43E-04	8.61E-04
1.22E-04	2.18E-04	3.57E-04	2.13E-05	2.79E-04	2.79E-04	1.28E-03	1.22E-04	2.18E-04	3.57E-04	2.13E-05	3.73E-05	2.79E-04	1.03E-03
1.35E-04	2.89E-04	4.49E-04	2.81E-05	3.32E-04	3.32E-04	1.56E-03	1.35E-04	2.89E-04	4.49E-04	2.81E-05	4.88E-05	3.32E-04	1.28E-03
1.51E-04	3.82E-04	5.97E-04	3.85E-05	4.04E-04	4.04E-04	1.98E-03	1.51E-04	3.82E-04	5.97E-04	3.85E-05	6.47E-05	4.04E-04	1.64E-03
1.71E-04	5.00E-04	8.23E-04	5.50E-05	5.11E-04	5.11E-04	2.57E-03	1.71E-04	5.00E-04	8.23E-04	5.50E-05	9.08E-05	5.11E-04	2.15E-03
1.91E-04	5.97E-04	1.12E-03	7.51E-05	6.41E-04	6.41E-04	3.26E-03	1.91E-04	5.97E-04	1.12E-03	7.51E-05	1.23E-04	6.41E-04	2.75E-03
2.20E-04	7.24E-04	1.65E-03	1.06E-04	8.50E-04	8.50E-04	4.40E-03	2.20E-04	7.24E-04	1.65E-03	1.06E-04	1.73E-04	8.50E-04	3.72E-03
2.57E-04	8.59E-04	2.59E-03	1.49E-04	1.18E-03	1.18E-03	6.23E-03	2.57E-04	8.59E-04	2.59E-03	1.49E-04	2.40E-04	1.18E-03	5.28E-03
2.76E-04	8.55E-04	2.99E-03	1.78E-04	1.35E-03	1.35E-03	7.00E-03	2.76E-04	8.55E-04	2.99E-03	1.78E-04	2.81E-04	1.35E-03	5.93E-03
3.55E-04	1.01E-03	5.79E-03	2.47E-04	2.78E-03	2.78E-03	1.30E-02	3.55E-04	1.01E-03	5.79E-03	2.47E-04	3.86E-04	2.78E-03	1.06E-02
4.08E-04	1.02E-03	7.41E-03	2.84E-04	5.71E-03	5.71E-03	2.05E-02	4.08E-04	1.02E-03	7.41E-03	2.84E-04	4.53E-04	5.71E-03	1.53E-02
4.89E-04	1.02E-03	9.96E-03	3.60E-04	1.03E-02	1.03E-02	3.25E-02	4.89E-04	1.02E-03	9.96E-03	3.60E-04	5.96E-04	1.03E-02	2.28E-02
6.42E-04	1.04E-03	1.39E-02	4.70E-04	3.88E-02	3.88E-02	9.37E-02	6.42E-04	1.04E-03	1.39E-02	4.70E-04	8.21E-04	3.88E-02	5.57E-02
1.14E-03	1.04E-03	2.13E-02	6.52E-04	2.85E-02	2.85E-02	8.12E-02	1.14E-03	1.04E-03	2.13E-02	6.52E-04	1.18E-03	2.85E-02	5.38E-02
1.07E-02	1.07E-03	5.81E-02	1.01E-03	1.71E-02	1.71E-02	1.05E-01	1.07E-02	1.07E-03	5.81E-02	1.01E-03	2.10E-03	1.71E-02	9.01E-02
2.12E-03	1.07E-03	1.70E-01	2.06E-03	1.48E-02	1.48E-02	2.05E-01	2.12E-03	1.07E-03	1.70E-01	2.06E-03	4.56E-03	1.48E-02	1.95E-01
2.23E-03	1.05E-03	7.61E-02	8.80E-03	4.50E-02	4.50E-02	1.78E-01	2.23E-03	1.05E-03	7.61E-02	8.80E-03	3.41E-02	4.50E-02	1.67E-01
4.49E-03	1.05E-03	4.17E-02	7.76E-03	2.95E-02	2.95E-02	1.14E-01	4.49E-03	1.05E-03	4.17E-02	7.76E-03	2.15E-02	2.95E-02	1.06E-01
1.72E-03	9.83E-04	2.72E-02	3.15E-03	1.43E-02	1.43E-02	6.17E-02	1.72E-03	9.83E-04	2.72E-02	3.15E-03	8.73E-03	1.43E-02	5.61E-02
1.19E-03	9.53E-04	2.10E-02	2.11E-03	1.03E-02	1.03E-02	4.59E-02	1.19E-03	9.53E-04	2.10E-02	2.11E-03	5.63E-03	1.03E-02	4.12E-02
9.94E-04	9.77E-04	1.89E-02	1.71E-03	8.93E-03	8.93E-03	4.04E-02	9.94E-04	9.77E-04	1.89E-02	1.71E-03	4.51E-03	8.93E-03	3.60E-02
8.70E-04	9.93E-04	1.71E-02	1.42E-03	7.93E-03	7.93E-03	3.63E-02	8.70E-04	9.93E-04	1.71E-02	1.42E-03	3.73E-03	7.93E-03	3.21E-02
7.71E-04	1.02E-03	1.54E-02	1.20E-03	7.04E-03	7.04E-03	3.25E-02	7.71E-04	1.02E-03	1.54E-02	1.20E-03	3.10E-03	7.04E-03	2.85E-02
6.97E-04	1.03E-03	1.40E-02	1.03E-03	6.37E-03	6.37E-03	2.95E-02	6.97E-04	1.03E-03	1.40E-02	1.03E-03	2.63E-03	6.37E-03	2.57E-02
6.36E-04	1.01E-03	1.27E-02	8.96E-04	5.76E-03	5.76E-03	2.67E-02	6.36E-04	1.01E-03	1.27E-02	8.96E-04	2.23E-03	5.76E-03	2.32E-02
5.89E-04	9.79E-04	1.15E-02	7.86E-04	5.24E-03	5.24E-03	2.43E-02	5.89E-04	9.79E-04	1.15E-02	7.86E-04	1.91E-03	5.24E-03	2.10E-02
5.54E-04	9.50E-04	1.05E-02	6.97E-04	4.87E-03	4.87E-03	2.24E-02	5.54E-04	9.50E-04	1.05E-02	6.97E-04	1.65E-03	4.87E-03	1.92E-02
5.18E-04	8.99E-04	9.35E-03	6.18E-04	4.38E-03	4.38E-03	2.01E-02	5.18E-04	8.99E-04	9.35E-03	6.18E-04	1.42E-03	4.38E-03	1.72E-02
4.68E-04	8.22E-04	7.77E-03	5.27E-04	3.76E-03	3.76E-03	1.71E-02	4.68E-04	8.22E-04	7.77E-03	5.27E-04	1.18E-03	3.76E-03	1.45E-02
4.72E-04	8.57E-04	7.84E-03	4.98E-04	3.88E-03	3.88E-03	1.74E-02	4.72E-04	8.57E-04	7.84E-03	4.98E-04	1.10E-03	3.88E-03	1.47E-02
4.45E-04	8.23E-04	7.00E-03	4.45E-04	3.57E-03	3.57E-03	1.59E-02	4.45E-04	8.23E-04	7.00E-03	4.45E-04	9.62E-04	3.57E-03	1.32E-02

4.21E-04	7.95E-04	6.29E-03	3.99E-04	3.33E-03	3.33E-03	1.46E-02	4.21E-04	7.95E-04	6.29E-03	3.99E-04	8.48E-04	3.33E-03	1.21E-02
3.66E-04	6.93E-04	4.80E-03	3.14E-04	2.67E-03	2.67E-03	1.15E-02	3.66E-04	6.93E-04	4.80E-03	3.14E-04	6.53E-04	2.67E-03	9.49E-03
3.10E-04	5.57E-04	3.42E-03	2.21E-04	2.02E-03	2.02E-03	8.55E-03	3.10E-04	5.57E-04	3.42E-03	2.21E-04	4.50E-04	2.02E-03	6.98E-03
2.64E-04	4.24E-04	2.44E-03	1.52E-04	1.58E-03	1.58E-03	6.45E-03	2.64E-04	4.24E-04	2.44E-03	1.52E-04	3.09E-04	1.58E-03	5.17E-03
2.34E-04	3.35E-04	1.87E-03	1.13E-04	1.32E-03	1.32E-03	5.19E-03	2.34E-04	3.35E-04	1.87E-03	1.13E-04	2.27E-04	1.32E-03	4.10E-03
2.04E-04	2.52E-04	1.36E-03	7.97E-05	1.06E-03	1.06E-03	4.02E-03	2.04E-04	2.52E-04	1.36E-03	7.97E-05	1.60E-04	1.06E-03	3.12E-03
2.01E-04	2.55E-04	1.29E-03	7.50E-05	1.03E-03	1.03E-03	3.88E-03	2.01E-04	2.55E-04	1.29E-03	7.50E-05	1.49E-04	1.03E-03	3.00E-03
1.98E-04	2.62E-04	1.24E-03	7.20E-05	1.01E-03	1.01E-03	3.80E-03	1.98E-04	2.62E-04	1.24E-03	7.20E-05	1.42E-04	1.01E-03	2.93E-03
2.00E-04	2.82E-04	1.25E-03	7.23E-05	1.03E-03	1.03E-03	3.86E-03	2.00E-04	2.82E-04	1.25E-03	7.23E-05	1.42E-04	1.03E-03	2.97E-03
2.02E-04	3.05E-04	1.26E-03	7.34E-05	1.05E-03	1.05E-03	3.94E-03	2.02E-04	3.05E-04	1.26E-03	7.34E-05	1.43E-04	1.05E-03	3.04E-03
2.07E-04	3.34E-04	1.30E-03	7.59E-05	1.08E-03	1.08E-03	4.08E-03	2.07E-04	3.34E-04	1.30E-03	7.59E-05	1.48E-04	1.08E-03	3.15E-03
2.18E-04	3.90E-04	1.43E-03	8.45E-05	1.16E-03	1.16E-03	4.45E-03	2.18E-04	3.90E-04	1.43E-03	8.45E-05	1.64E-04	1.16E-03	3.45E-03
1.08E-04	3.70E-04	3.68E-04	2.20E-05	2.54E-04	2.54E-04	1.38E-03	1.08E-04	3.70E-04	3.68E-04	2.20E-05	3.70E-05	2.54E-04	1.16E-03
1.10E-04	3.85E-04	3.83E-04	2.31E-05	2.63E-04	2.63E-04	1.43E-03	1.10E-04	3.85E-04	3.83E-04	2.31E-05	3.89E-05	2.63E-04	1.20E-03
1.15E-04	4.10E-04	4.14E-04	2.48E-05	2.82E-04	2.82E-04	1.53E-03	1.15E-04	4.10E-04	4.14E-04	2.48E-05	4.19E-05	2.82E-04	1.29E-03
1.19E-04	4.37E-04	4.53E-04	2.69E-05	3.06E-04	3.06E-04	1.65E-03	1.19E-04	4.37E-04	4.53E-04	2.69E-05	4.56E-05	3.06E-04	1.39E-03
1.23E-04	4.61E-04	4.88E-04	2.90E-05	3.26E-04	3.26E-04	1.75E-03	1.23E-04	4.61E-04	4.88E-04	2.90E-05	4.91E-05	3.26E-04	1.48E-03
1.30E-04	5.00E-04	5.53E-04	3.21E-05	3.66E-04	3.66E-04	1.95E-03	1.30E-04	5.00E-04	5.53E-04	3.21E-05	5.45E-05	3.66E-04	1.63E-03
1.30E-04	4.90E-04	5.45E-04	3.27E-05	3.58E-04	3.58E-04	1.91E-03	1.30E-04	4.90E-04	5.45E-04	3.27E-05	5.58E-05	3.58E-04	1.61E-03
1.26E-04	4.57E-04	5.11E-04	3.22E-05	3.45E-04	3.45E-04	1.82E-03	1.26E-04	4.57E-04	5.11E-04	3.22E-05	5.52E-05	3.45E-04	1.53E-03
1.17E-04	3.64E-04	4.09E-04	2.71E-05	2.90E-04	2.90E-04	1.50E-03	1.17E-04	3.64E-04	4.09E-04	2.71E-05	4.67E-05	2.90E-04	1.25E-03
1.05E-04	2.29E-04	2.93E-04	1.88E-05	2.32E-04	2.32E-04	1.11E-03	1.05E-04	2.29E-04	2.93E-04	1.88E-05	3.30E-05	2.32E-04	9.11E-04
1.05E-04	2.05E-04	2.83E-04	1.76E-05	2.30E-04	2.30E-04	1.07E-03	1.05E-04	2.05E-04	2.83E-04	1.76E-05	3.12E-05	2.30E-04	8.72E-04
1.08E-04	2.04E-04	2.95E-04	1.82E-05	2.41E-04	2.41E-04	1.11E-03	1.08E-04	2.04E-04	2.95E-04	1.82E-05	3.23E-05	2.41E-04	8.98E-04
1.13E-04	2.12E-04	3.21E-04	1.98E-05	2.59E-04	2.59E-04	1.18E-03	1.13E-04	2.12E-04	3.21E-04	1.98E-05	3.50E-05	2.59E-04	9.60E-04
1.10E-04	1.49E-04	2.75E-04	1.60E-05	2.41E-04	2.41E-04	1.03E-03	1.10E-04	1.49E-04	2.75E-04	1.60E-05	2.86E-05	2.41E-04	8.19E-04
1.11E-04	1.19E-04	2.58E-04	1.44E-05	2.37E-04	2.37E-04	9.76E-04	1.11E-04	1.19E-04	2.58E-04	1.44E-05	2.59E-05	2.37E-04	7.65E-04
1.35E-04	2.84E-04	4.75E-04	3.02E-05	3.54E-04	3.54E-04	1.63E-03	1.35E-04	2.84E-04	4.75E-04	3.02E-05	5.18E-05	3.54E-04	1.33E-03
1.50E-04	3.68E-04	6.25E-04	4.15E-05	4.37E-04	4.37E-04	2.06E-03	1.50E-04	3.68E-04	6.25E-04	4.15E-05	6.92E-05	4.37E-04	1.69E-03
1.79E-04	5.48E-04	1.07E-03	7.42E-05	6.43E-04	6.43E-04	3.16E-03	1.79E-04	5.48E-04	1.07E-03	7.42E-05	1.19E-04	6.43E-04	2.63E-03
2.10E-04	7.03E-04	1.78E-03	1.13E-04	9.14E-04	9.14E-04	4.64E-03	2.10E-04	7.03E-04	1.78E-03	1.13E-04	1.80E-04	9.14E-04	3.90E-03
2.40E-04	7.92E-04	2.61E-03	1.49E-04	1.24E-03	1.24E-03	6.27E-03	2.40E-04	7.92E-04	2.61E-03	1.49E-04	2.37E-04	1.24E-03	5.27E-03
2.76E-04	8.50E-04	3.75E-03	1.89E-04	1.77E-03	1.77E-03	8.62E-03	2.76E-04	8.50E-04	3.75E-03	1.89E-04	3.05E-04	1.77E-03	7.15E-03
3.19E-04	8.84E-04	5.24E-03	2.26E-04	3.05E-03	3.05E-03	1.28E-02	3.19E-04	8.84E-04	5.24E-03	2.26E-04	3.79E-04	3.05E-03	1.01E-02
3.55E-04	8.77E-04	6.39E-03	2.54E-04	5.36E-03	5.36E-03	1.86E-02	3.55E-04	8.77E-04	6.39E-03	2.54E-04	4.47E-04	5.36E-03	1.37E-02
4.04E-04	8.79E-04	8.06E-03	3.10E-04	8.43E-03	8.43E-03	2.65E-02	4.04E-04	8.79E-04	8.06E-03	3.10E-04	5.62E-04	8.43E-03	1.86E-02
4.74E-04	8.98E-04	1.03E-02	3.88E-04	2.67E-02	2.67E-02	6.55E-02	4.74E-04	8.98E-04	1.03E-02	3.88E-04	7.28E-04	2.67E-02	3.95E-02
6.11E-04	9.12E-04	1.39E-02	4.98E-04	5.56E-02	5.56E-02	1.27E-01	6.11E-04	9.12E-04	1.39E-02	4.98E-04	1.00E-03	5.56E-02	7.26E-02
9.96E-04	9.35E-04	2.03E-02	6.52E-04	5.57E-02	5.57E-02	1.34E-01	9.96E-04	9.35E-04	2.03E-02	6.52E-04	1.43E-03	5.57E-02	8.00E-02
8.02E-03	9.61E-04	4.18E-02	9.37E-04	2.80E-02	2.80E-02	1.08E-01	8.02E-03	9.61E-04	4.18E-02	9.37E-04	2.16E-03	2.80E-02	8.18E-02
2.62E-03	9.67E-04	1.57E-01	1.72E-03	2.04E-02	2.04E-02	2.03E-01	2.62E-03	9.67E-04	1.57E-01	1.72E-03	3.97E-03	2.04E-02	1.87E-01
2.20E-03	9.52E-04	9.61E-02	6.53E-03	3.36E-02	3.36E-02	1.73E-01	2.20E-03	9.52E-04	9.61E-02	6.53E-03	2.04E-02	3.36E-02	1.60E-01
5.10E-03	9.35E-04	4.23E-02	8.26E-03	3.40E-02	3.40E-02	1.25E-01	5.10E-03	9.35E-04	4.23E-02	8.26E-03	2.43E-02	3.40E-02	1.15E-01
1.92E-03	9.19E-04	3.24E-02	3.82E-03	1.82E-02	1.82E-02	7.55E-02	1.92E-03	9.19E-04	3.24E-02	3.82E-03	1.08E-02	1.82E-02	6.80E-02
1.33E-03	9.18E-04	2.71E-02	2.54E-03	1.38E-02	1.38E-02	5.95E-02	1.33E-03	9.18E-04	2.71E-02	2.54E-03	7.20E-03	1.38E-02	5.29E-02
1.07E-03	9.28E-04	2.35E-02	1.91E-03	1.14E-02	1.14E-02	5.03E-02	1.07E-03	9.28E-04	2.35E-02	1.91E-03	5.35E-03	1.14E-02	4.42E-02
9.19E-04	9.24E-04	2.04E-02	1.51E-03	9.61E-03	9.61E-03	4.30E-02	9.19E-04	9.24E-04	2.04E-02	1.51E-03	4.12E-03	9.61E-03	3.75E-02
8.11E-04	9.47E-04	1.79E-02	1.24E-03	8.27E-03	8.27E-03	3.74E-02	8.11E-04	9.47E-04	1.79E-02	1.24E-03	3.24E-03	8.27E-03	3.24E-02
7.30E-04	9.51E-04	1.58E-02	1.05E-03	7.27E-03	7.27E-03	3.31E-02	7.30E-04	9.51E-04	1.58E-02	1.05E-03	2.61E-03	7.27E-03	2.84E-02
6.66E-04	9.40E-04	1.40E-02	8.98E-04	6.55E-03	6.55E-03	2.96E-02	6.66E-04	9.40E-04	1.40E-02	8.98E-04	2.15E-03	6.55E-03	2.52E-02
6.11E-04	9.16E-04	1.25E-02	7.80E-04	5.89E-03	5.89E-03	2.65E-02	6.11E-04	9.16E-04	1.25E-02	7.80E-04	1.80E-03	5.89E-03	2.24E-02
5.65E-04	8.82E-04	1.11E-02	6.85E-04	5.38E-03	5.38E-03	2.40E-02	5.65E-04	8.82E-04	1.11E-02	6.85E-04	1.53E-03	5.38E-03	2.01E-02
5.30E-04	8.52E-04	9.93E-03	6.06E-04	4.98E-03	4.98E-03	2.19E-02	5.30E-04	8.52E-04	9.93E-03	6.06E-04	1.31E-03	4.98E-03	1.82E-02
4.98E-04	8.20E-04	8.84E-03	5.38E-04	4.58E-03	4.58E-03	1.99E-02	4.98E-04	8.20E-04	8.84E-03	5.38E-04	1.14E-03	4.58E-03	1.64E-02

4.63E-04	7.78E-04	7.70E-03	4.74E-04	4.12E-03	4.12E-03	1.77E-02	4.63E-04	7.78E-04	7.70E-03	4.74E-04	9.81E-04	4.12E-03	1.45E-02
4.12E-04	7.09E-04	6.15E-03	3.91E-04	3.44E-03	3.44E-03	1.45E-02	4.12E-04	7.09E-04	6.15E-03	3.91E-04	7.94E-04	3.44E-03	1.19E-02
3.30E-04	5.44E-04	3.94E-03	2.52E-04	2.42E-03	2.42E-03	9.91E-03	3.30E-04	5.44E-04	3.94E-03	2.52E-04	5.02E-04	2.42E-03	7.99E-03
2.93E-04	4.59E-04	3.05E-03	1.90E-04	2.01E-03	2.01E-03	8.02E-03	2.93E-04	4.59E-04	3.05E-03	1.90E-04	3.76E-04	2.01E-03	6.39E-03
2.53E-04	3.54E-04	2.24E-03	1.34E-04	1.62E-03	1.62E-03	6.23E-03	2.53E-04	3.54E-04	2.24E-03	1.34E-04	2.64E-04	1.62E-03	4.87E-03
2.25E-04	2.84E-04	1.69E-03	9.85E-05	1.34E-03	1.34E-03	4.98E-03	2.25E-04	2.84E-04	1.69E-03	9.85E-05	1.93E-04	1.34E-03	3.83E-03
2.08E-04	2.48E-04	1.37E-03	7.85E-05	1.15E-03	1.15E-03	4.21E-03	2.08E-04	2.48E-04	1.37E-03	7.85E-05	1.53E-04	1.15E-03	3.21E-03
2.04E-04	2.52E-04	1.28E-03	7.33E-05	1.11E-03	1.11E-03	4.03E-03	2.04E-04	2.52E-04	1.28E-03	7.33E-05	1.42E-04	1.11E-03	3.06E-03
2.04E-04	2.67E-04	1.26E-03	7.18E-05	1.10E-03	1.10E-03	4.01E-03	2.04E-04	2.67E-04	1.26E-03	7.18E-05	1.40E-04	1.10E-03	3.04E-03
2.08E-04	3.01E-04	1.31E-03	7.54E-05	1.15E-03	1.15E-03	4.20E-03	2.08E-04	3.01E-04	1.31E-03	7.54E-05	1.46E-04	1.15E-03	3.19E-03
2.13E-04	3.34E-04	1.36E-03	7.82E-05	1.19E-03	1.19E-03	4.35E-03	2.13E-04	3.34E-04	1.36E-03	7.82E-05	1.51E-04	1.19E-03	3.32E-03
2.20E-04	3.79E-04	1.45E-03	8.42E-05	1.24E-03	1.24E-03	4.61E-03	2.20E-04	3.79E-04	1.45E-03	8.42E-05	1.61E-04	1.24E-03	3.53E-03
2.30E-04	4.36E-04	1.57E-03	9.24E-05	1.32E-03	1.32E-03	4.97E-03	2.30E-04	4.36E-04	1.57E-03	9.24E-05	1.77E-04	1.32E-03	3.83E-03
1.04E-04	3.62E-04	3.83E-04	2.25E-05	2.61E-04	2.61E-04	1.39E-03	1.04E-04	3.62E-04	3.83E-04	2.25E-05	3.80E-05	2.61E-04	1.17E-03
1.06E-04	3.72E-04	3.94E-04	2.34E-05	2.68E-04	2.68E-04	1.43E-03	1.06E-04	3.72E-04	3.94E-04	2.34E-05	3.96E-05	2.68E-04	1.20E-03
1.10E-04	3.92E-04	4.23E-04	2.51E-05	2.85E-04	2.85E-04	1.52E-03	1.10E-04	3.92E-04	4.23E-04	2.51E-05	4.25E-05	2.85E-04	1.28E-03
1.13E-04	4.10E-04	4.55E-04	2.68E-05	3.03E-04	3.03E-04	1.61E-03	1.13E-04	4.10E-04	4.55E-04	2.68E-05	4.56E-05	3.03E-04	1.35E-03
1.19E-04	4.44E-04	5.15E-04	2.98E-05	3.41E-04	3.41E-04	1.79E-03	1.19E-04	4.44E-04	5.15E-04	2.98E-05	5.06E-05	3.41E-04	1.50E-03
1.23E-04	4.64E-04	5.55E-04	3.19E-05	3.62E-04	3.62E-04	1.90E-03	1.23E-04	4.64E-04	5.55E-04	3.19E-05	5.43E-05	3.62E-04	1.59E-03
1.24E-04	4.53E-04	5.41E-04	3.22E-05	3.50E-04	3.50E-04	1.85E-03	1.24E-04	4.53E-04	5.41E-04	3.22E-05	5.49E-05	3.50E-04	1.56E-03
1.21E-04	4.24E-04	5.03E-04	3.14E-05	3.32E-04	3.32E-04	1.74E-03	1.21E-04	4.24E-04	5.03E-04	3.14E-05	5.36E-05	3.32E-04	1.46E-03
1.15E-04	3.61E-04	4.25E-04	2.78E-05	2.94E-04	2.94E-04	1.52E-03	1.15E-04	3.61E-04	4.25E-04	2.78E-05	4.76E-05	2.94E-04	1.27E-03
1.16E-04	3.53E-04	4.28E-04	2.83E-05	2.99E-04	2.99E-04	1.52E-03	1.16E-04	3.53E-04	4.28E-04	2.83E-05	4.84E-05	2.99E-04	1.27E-03
1.11E-04	2.99E-04	3.76E-04	2.50E-05	2.78E-04	2.78E-04	1.37E-03	1.11E-04	2.99E-04	3.76E-04	2.50E-05	4.26E-05	2.78E-04	1.13E-03
1.12E-04	2.80E-04	3.68E-04	2.43E-05	2.77E-04	2.77E-04	1.34E-03	1.12E-04	2.80E-04	3.68E-04	2.43E-05	4.13E-05	2.77E-04	1.10E-03
1.11E-04	2.33E-04	3.35E-04	2.16E-05	2.65E-04	2.65E-04	1.23E-03	1.11E-04	2.33E-04	3.35E-04	2.16E-05	3.68E-05	2.65E-04	1.00E-03
1.04E-04	1.34E-04	2.47E-04	1.46E-05	2.23E-04	2.23E-04	9.46E-04	1.04E-04	1.34E-04	2.47E-04	1.46E-05	2.55E-05	2.23E-04	7.48E-04
1.04E-04	1.06E-04	2.29E-04	1.30E-05	2.19E-04	2.19E-04	8.89E-04	1.04E-04	1.06E-04	2.29E-04	1.30E-05	2.30E-05	2.19E-04	6.93E-04
1.13E-04	1.42E-04	2.89E-04	1.70E-05	2.58E-04	2.58E-04	1.08E-03	1.13E-04	1.42E-04	2.89E-04	1.70E-05	2.97E-05	2.58E-04	8.48E-04
1.26E-04	2.03E-04	3.87E-04	2.36E-05	3.16E-04	3.16E-04	1.37E-03	1.26E-04	2.03E-04	3.87E-04	2.36E-05	4.08E-05	3.16E-04	1.10E-03
1.65E-04	4.78E-04	9.53E-04	6.77E-05	6.06E-04	6.06E-04	2.88E-03	1.65E-04	4.78E-04	9.53E-04	6.77E-05	1.10E-04	6.06E-04	2.38E-03
1.97E-04	6.27E-04	1.70E-03	1.10E-04	9.14E-04	9.14E-04	4.46E-03	1.97E-04	6.27E-04	1.70E-03	1.10E-04	1.80E-04	9.14E-04	3.73E-03
2.31E-04	7.28E-04	2.66E-03	1.44E-04	1.33E-03	1.33E-03	6.43E-03	2.31E-04	7.28E-04	2.66E-03	1.44E-04	2.44E-04	1.33E-03	5.34E-03
2.59E-04	7.75E-04	3.60E-03	1.75E-04	1.92E-03	1.92E-03	8.65E-03	2.59E-04	7.75E-04	3.60E-03	1.75E-04	3.06E-04	1.92E-03	7.04E-03
2.83E-04	8.02E-04	4.48E-03	2.05E-04	2.59E-03	2.59E-03	1.09E-02	2.83E-04	8.02E-04	4.48E-03	2.05E-04	3.68E-04	2.59E-03	8.73E-03
3.17E-04	7.99E-04	5.52E-03	2.28E-04	4.68E-03	4.68E-03	1.62E-02	3.17E-04	7.99E-04	5.52E-03	2.28E-04	4.14E-04	4.68E-03	1.20E-02
3.50E-04	7.96E-04	6.62E-03	2.68E-04	7.08E-03	7.08E-03	2.22E-02	3.50E-04	7.96E-04	6.62E-03	2.68E-04	4.93E-04	7.08E-03	1.56E-02
3.94E-04	8.07E-04	8.12E-03	3.23E-04	1.30E-02	1.30E-02	3.56E-02	3.94E-04	8.07E-04	8.12E-03	3.23E-04	6.16E-04	1.30E-02	2.33E-02
4.61E-04	8.18E-04	1.03E-02	3.95E-04	5.12E-02	5.12E-02	1.14E-01	4.61E-04	8.18E-04	1.03E-02	3.95E-04	7.96E-04	5.12E-02	6.39E-02
5.89E-04	8.33E-04	1.35E-02	4.92E-04	6.64E-02	6.64E-02	1.48E-01	5.89E-04	8.33E-04	1.35E-02	4.92E-04	1.05E-03	6.64E-02	8.29E-02
8.64E-04	8.70E-04	1.89E-02	6.29E-04	7.83E-02	7.83E-02	1.78E-01	8.64E-04	8.70E-04	1.89E-02	6.29E-04	1.37E-03	7.83E-02	1.01E-01
2.64E-03	9.13E-04	3.52E-02	8.88E-04	3.50E-02	3.50E-02	1.10E-01	2.64E-03	9.13E-04	3.52E-02	8.88E-04	1.99E-03	3.50E-02	7.67E-02
3.49E-03	9.31E-04	1.43E-01	1.48E-03	2.35E-02	2.35E-02	1.96E-01	3.49E-03	9.31E-04	1.43E-01	1.48E-03	3.37E-03	2.35E-02	1.76E-01
2.11E-03	8.71E-04	8.93E-02	6.72E-03	2.31E-02	2.31E-02	1.45E-01	2.11E-03	8.71E-04	8.93E-02	6.72E-03	1.16E-02	2.31E-02	1.34E-01
5.91E-03	9.11E-04	5.30E-02	9.95E-03	5.67E-02	5.67E-02	1.83E-01	5.91E-03	9.11E-04	5.30E-02	9.95E-03	4.36E-02	5.67E-02	1.70E-01
2.06E-03	9.36E-04	3.99E-02	3.99E-03	2.08E-02	2.08E-02	8.85E-02	2.06E-03	9.36E-04	3.99E-02	3.99E-03	1.17E-02	2.08E-02	7.94E-02
1.41E-03	9.49E-04	3.17E-02	2.42E-03	1.43E-02	1.43E-02	6.52E-02	1.41E-03	9.49E-04	3.17E-02	2.42E-03	6.43E-03	1.43E-02	5.73E-02
1.13E-03	9.41E-04	2.62E-02	1.78E-03	1.13E-02	1.13E-02	5.26E-02	1.13E-03	9.41E-04	2.62E-02	1.78E-03	4.24E-03	1.13E-02	4.55E-02
9.63E-04	9.27E-04	2.20E-02	1.40E-03	9.45E-03	9.45E-03	4.42E-02	9.63E-04	9.27E-04	2.20E-02	1.40E-03	3.13E-03	9.45E-03	3.78E-02
8.50E-04	9.26E-04	1.88E-02	1.14E-03	8.45E-03	8.45E-03	3.86E-02	8.50E-04	9.26E-04	1.88E-02	1.14E-03	2.44E-03	8.45E-03	3.26E-02
7.62E-04	9.19E-04	1.63E-02	9.60E-04	7.66E-03	7.66E-03	3.42E-02	7.62E-04	9.19E-04	1.63E-02	9.60E-04	2.00E-03	7.66E-03	2.85E-02
6.88E-04	8.99E-04	1.41E-02	8.20E-04	6.94E-03	6.94E-03	3.04E-02	6.88E-04	8.99E-04	1.41E-02	8.20E-04	1.67E-03	6.94E-03	2.51E-02
6.27E-04	8.85E-04	1.23E-02	7.09E-04	6.33E-03	6.33E-03	2.72E-02	6.27E-04	8.85E-04	1.23E-02	7.09E-04	1.42E-03	6.33E-03	2.23E-02
5.76E-04	8.58E-04	1.08E-02	6.21E-04	5.78E-03	5.78E-03	2.45E-02	5.76E-04	8.58E-04	1.08E-02	6.21E-04	1.23E-03	5.78E-03	1.99E-02

5.31E-04	8.30E-04	9.50E-03	5.48E-04	5.27E-03	5.27E-03	2.19E-02	5.31E-04	8.30E-04	9.50E-03	5.48E-04	1.07E-03	5.27E-03	1.77E-02
4.55E-04	7.35E-04	7.45E-03	4.52E-04	4.34E-03	4.34E-03	1.78E-02	4.55E-04	7.35E-04	7.45E-03	4.52E-04	8.80E-04	4.34E-03	1.43E-02
3.96E-04	6.53E-04	5.71E-03	3.55E-04	3.56E-03	3.56E-03	1.42E-02	3.96E-04	6.53E-04	5.71E-03	3.55E-04	6.83E-04	3.56E-03	1.14E-02
3.39E-04	5.47E-04	4.11E-03	2.54E-04	2.76E-03	2.76E-03	1.08E-02	3.39E-04	5.47E-04	4.11E-03	2.54E-04	4.82E-04	2.76E-03	8.49E-03
2.86E-04	4.20E-04	2.81E-03	1.68E-04	2.09E-03	2.09E-03	7.87E-03	2.86E-04	4.20E-04	2.81E-03	1.68E-04	3.18E-04	2.09E-03	6.09E-03
2.49E-04	3.28E-04	2.02E-03	1.17E-04	1.66E-03	1.66E-03	6.03E-03	2.49E-04	3.28E-04	2.02E-03	1.17E-04	2.20E-04	1.66E-03	4.59E-03
2.32E-04	2.99E-04	1.68E-03	9.57E-05	1.46E-03	1.46E-03	5.22E-03	2.32E-04	2.99E-04	1.68E-03	9.57E-05	1.80E-04	1.46E-03	3.94E-03
2.22E-04	2.89E-04	1.48E-03	8.41E-05	1.33E-03	1.33E-03	4.74E-03	2.22E-04	2.89E-04	1.48E-03	8.41E-05	1.58E-04	1.33E-03	3.57E-03
2.19E-04	3.01E-04	1.42E-03	8.02E-05	1.29E-03	1.29E-03	4.59E-03	2.19E-04	3.01E-04	1.42E-03	8.02E-05	1.50E-04	1.29E-03	3.45E-03
2.17E-04	3.15E-04	1.37E-03	7.79E-05	1.26E-03	1.26E-03	4.50E-03	2.17E-04	3.15E-04	1.37E-03	7.79E-05	1.46E-04	1.26E-03	3.39E-03
2.20E-04	3.40E-04	1.38E-03	7.87E-05	1.26E-03	1.26E-03	4.55E-03	2.20E-04	3.40E-04	1.38E-03	7.87E-05	1.46E-04	1.26E-03	3.43E-03
2.25E-04	3.76E-04	1.43E-03	8.22E-05	1.29E-03	1.29E-03	4.70E-03	2.25E-04	3.76E-04	1.43E-03	8.22E-05	1.53E-04	1.29E-03	3.56E-03
2.36E-04	4.41E-04	1.59E-03	9.22E-05	1.39E-03	1.39E-03	5.13E-03	2.36E-04	4.41E-04	1.59E-03	9.22E-05	1.71E-04	1.39E-03	3.91E-03
2.50E-04	5.16E-04	1.77E-03	1.04E-04	1.50E-03	1.50E-03	5.65E-03	2.50E-04	5.16E-04	1.77E-03	1.04E-04	1.93E-04	1.50E-03	4.34E-03
1.02E-04	3.53E-04	3.98E-04	2.29E-05	2.68E-04	2.68E-04	1.41E-03	1.02E-04	3.53E-04	3.98E-04	2.29E-05	3.89E-05	2.68E-04	1.18E-03
1.04E-04	3.61E-04	4.08E-04	2.37E-05	2.73E-04	2.73E-04	1.44E-03	1.04E-04	3.61E-04	4.08E-04	2.37E-05	4.03E-05	2.73E-04	1.21E-03
1.06E-04	3.75E-04	4.33E-04	2.51E-05	2.88E-04	2.88E-04	1.52E-03	1.06E-04	3.75E-04	4.33E-04	2.51E-05	4.27E-05	2.88E-04	1.27E-03
1.10E-04	3.92E-04	4.66E-04	2.69E-05	3.08E-04	3.08E-04	1.61E-03	1.10E-04	3.92E-04	4.66E-04	2.69E-05	4.58E-05	3.08E-04	1.35E-03
1.14E-04	4.15E-04	5.14E-04	2.93E-05	3.37E-04	3.37E-04	1.75E-03	1.14E-04	4.15E-04	5.14E-04	2.93E-05	4.97E-05	3.37E-04	1.46E-03
1.19E-04	4.43E-04	5.75E-04	3.21E-05	3.74E-04	3.74E-04	1.92E-03	1.19E-04	4.43E-04	5.75E-04	3.21E-05	5.43E-05	3.74E-04	1.60E-03
1.16E-04	4.22E-04	5.40E-04	3.17E-05	3.47E-04	3.47E-04	1.81E-03	1.16E-04	4.22E-04	5.40E-04	3.17E-05	5.37E-05	3.47E-04	1.51E-03
1.06E-04	3.36E-04	4.00E-04	2.60E-05	2.76E-04	2.76E-04	1.42E-03	1.06E-04	3.36E-04	4.00E-04	2.60E-05	4.39E-05	2.76E-04	1.19E-03
9.55E-05	2.24E-04	2.79E-04	1.83E-05	2.16E-04	2.16E-04	1.05E-03	9.55E-05	2.24E-04	2.79E-04	1.83E-05	3.10E-05	2.16E-04	8.64E-04
9.47E-05	1.99E-04	2.64E-04	1.71E-05	2.12E-04	2.12E-04	9.98E-04	9.47E-05	1.99E-04	2.64E-04	1.71E-05	2.89E-05	2.12E-04	8.15E-04
1.04E-04	2.64E-04	3.45E-04	2.32E-05	2.58E-04	2.58E-04	1.25E-03	1.04E-04	2.64E-04	3.45E-04	2.32E-05	3.85E-05	2.58E-04	1.03E-03
1.08E-04	2.75E-04	3.76E-04	2.52E-05	2.75E-04	2.75E-04	1.33E-03	1.08E-04	2.75E-04	3.76E-04	2.52E-05	4.12E-05	2.75E-04	1.10E-03
1.06E-04	2.31E-04	3.32E-04	2.20E-05	2.59E-04	2.59E-04	1.21E-03	1.06E-04	2.31E-04	3.32E-04	2.20E-05	3.65E-05	2.59E-04	9.87E-04
1.02E-04	1.56E-04	2.61E-04	1.61E-05	2.27E-04	2.27E-04	9.90E-04	1.02E-04	1.56E-04	2.61E-04	1.61E-05	2.75E-05	2.27E-04	7.90E-04
9.88E-05	1.03E-04	2.13E-04	1.22E-05	2.06E-04	2.06E-04	8.38E-04	9.88E-05	1.03E-04	2.13E-04	1.22E-05	2.11E-05	2.06E-04	6.53E-04
9.72E-05	8.01E-05	1.90E-04	1.04E-05	1.98E-04	1.98E-04	7.74E-04	9.72E-05	8.01E-05	1.90E-04	1.04E-05	1.81E-05	1.98E-04	5.94E-04
1.13E-04	1.46E-04	2.94E-04	1.77E-05	2.64E-04	2.64E-04	1.10E-03	1.13E-04	1.46E-04	2.94E-04	1.77E-05	2.98E-05	2.64E-04	8.64E-04
1.49E-04	3.97E-04	7.65E-04	5.58E-05	5.18E-04	5.18E-04	2.40E-03	1.49E-04	3.97E-04	7.65E-04	5.58E-05	8.97E-05	5.18E-04	1.97E-03
1.45E-04	3.25E-04	6.45E-04	4.48E-05	4.68E-04	4.68E-04	2.09E-03	1.45E-04	3.25E-04	6.45E-04	4.48E-05	7.35E-05	4.68E-04	1.70E-03
2.17E-04	6.66E-04	2.49E-03	1.33E-04	1.33E-03	1.33E-03	6.17E-03	2.17E-04	6.66E-04	2.49E-03	1.33E-04	2.42E-04	1.33E-03	5.08E-03
2.26E-04	6.66E-04	2.82E-03	1.52E-04	1.48E-03	1.48E-03	6.84E-03	2.26E-04	6.66E-04	2.82E-03	1.52E-04	2.75E-04	1.48E-03	5.63E-03
2.52E-04	7.06E-04	3.72E-03	1.82E-04	2.10E-03	2.10E-03	9.06E-03	2.52E-04	7.06E-04	3.72E-03	1.82E-04	3.33E-04	2.10E-03	7.29E-03
2.86E-04	7.39E-04	4.76E-03	2.07E-04	3.79E-03	3.79E-03	1.36E-02	2.86E-04	7.39E-04	4.76E-03	2.07E-04	3.80E-04	3.79E-03	1.02E-02
3.10E-04	7.47E-04	5.51E-03	2.33E-04	5.36E-03	5.36E-03	1.75E-02	3.10E-04	7.47E-04	5.51E-03	2.33E-04	4.34E-04	5.36E-03	1.26E-02
3.40E-04	7.63E-04	6.49E-03	2.70E-04	7.48E-03	7.48E-03	2.28E-02	3.40E-04	7.63E-04	6.49E-03	2.70E-04	5.21E-04	7.48E-03	1.59E-02
3.85E-04	7.81E-04	7.87E-03	3.19E-04	1.10E-02	1.10E-02	3.13E-02	3.85E-04	7.81E-04	7.87E-03	3.19E-04	6.36E-04	1.10E-02	2.10E-02
4.49E-04	7.87E-04	9.68E-03	3.78E-04	1.73E-02	1.73E-02	4.59E-02	4.49E-04	7.87E-04	9.68E-03	3.78E-04	7.75E-04	1.73E-02	2.94E-02
5.62E-04	8.06E-04	1.24E-02	4.61E-04	3.05E-02	3.05E-02	7.52E-02	5.62E-04	8.06E-04	1.24E-02	4.61E-04	9.46E-04	3.05E-02	4.57E-02
7.73E-04	8.40E-04	1.71E-02	5.78E-04	7.30E-02	7.30E-02	1.65E-01	7.73E-04	8.40E-04	1.71E-02	5.78E-04	1.18E-03	7.30E-02	9.34E-02
1.57E-03	8.92E-04	2.77E-02	7.74E-04	4.32E-02	4.32E-02	1.17E-01	1.57E-03	8.92E-04	2.77E-02	7.74E-04	1.52E-03	4.32E-02	7.56E-02
5.04E-03	9.50E-04	1.27E-01	1.27E-03	2.11E-02	2.11E-02	1.76E-01	5.04E-03	9.50E-04	1.27E-01	1.27E-03	2.27E-03	2.11E-02	1.58E-01
2.28E-03	9.16E-04	1.35E-01	4.13E-03	1.46E-02	1.46E-02	1.72E-01	2.28E-03	9.16E-04	1.35E-01	4.13E-03	3.47E-03	1.46E-02	1.61E-01
7.06E-03	9.78E-04	6.53E-02	7.71E-03	1.36E-02	1.36E-02	1.08E-01	7.06E-03	9.78E-04	6.53E-02	7.71E-03	3.60E-03	1.36E-02	9.82E-02
2.25E-03	1.04E-03	4.40E-02	3.01E-03	1.24E-02	1.24E-02	7.51E-02	2.25E-03	1.04E-03	4.40E-02	3.01E-03	3.07E-03	1.24E-02	6.57E-02
1.53E-03	1.06E-03	3.29E-02	1.97E-03	1.10E-02	1.10E-02	5.95E-02	1.53E-03	1.06E-03	3.29E-02	1.97E-03	2.53E-03	1.10E-02	5.10E-02
1.21E-03	1.06E-03	2.60E-02	1.45E-03	1.08E-02	1.08E-02	5.12E-02	1.21E-03	1.06E-03	2.60E-02	1.45E-03	2.10E-03	1.08E-02	4.26E-02
1.02E-03	1.01E-03	2.13E-02	1.15E-03	1.03E-02	1.03E-02	4.50E-02	1.02E-03	1.01E-03	2.13E-02	1.15E-03	1.78E-03	1.03E-02	3.65E-02
8.87E-04	9.62E-04	1.78E-02	9.45E-04	9.20E-03	9.20E-03	3.90E-02	8.87E-04	9.62E-04	1.78E-02	9.45E-04	1.54E-03	9.20E-03	3.14E-02
7.89E-04	9.39E-04	1.51E-02	7.97E-04	8.21E-03	8.21E-03	3.40E-02	7.89E-04	9.39E-04	1.51E-02	7.97E-04	1.34E-03	8.21E-03	2.71E-02
7.11E-04	9.34E-04	1.29E-02	6.85E-04	7.43E-03	7.43E-03	3.01E-02	7.11E-04	9.34E-04	1.29E-02	6.85E-04	1.18E-03	7.43E-03	2.39E-02

6.47E-04	9.41E-04	1.12E-02	5.97E-04	6.80E-03	6.80E-03	2.70E-02	6.47E-04	9.41E-04	1.12E-02	5.97E-04	1.05E-03	6.80E-03	2.12E-02
5.76E-04	9.08E-04	9.55E-03	5.22E-04	6.01E-03	6.01E-03	2.36E-02	5.76E-04	9.08E-04	9.55E-03	5.22E-04	9.27E-04	6.01E-03	1.85E-02
4.63E-04	7.74E-04	6.93E-03	4.07E-04	4.64E-03	4.64E-03	1.79E-02	4.63E-04	7.74E-04	6.93E-03	4.07E-04	7.39E-04	4.64E-03	1.40E-02
3.79E-04	6.45E-04	4.72E-03	2.82E-04	3.42E-03	3.42E-03	1.29E-02	3.79E-04	6.45E-04	4.72E-03	2.82E-04	5.10E-04	3.42E-03	9.95E-03
3.18E-04	5.02E-04	3.23E-03	1.88E-04	2.54E-03	2.54E-03	9.31E-03	3.18E-04	5.02E-04	3.23E-03	1.88E-04	3.40E-04	2.54E-03	7.11E-03
2.93E-04	4.54E-04	2.64E-03	1.52E-04	2.18E-03	2.18E-03	7.90E-03	2.93E-04	4.54E-04	2.64E-03	1.52E-04	2.74E-04	2.18E-03	5.99E-03
2.69E-04	4.06E-04	2.12E-03	1.21E-04	1.85E-03	1.85E-03	6.63E-03	2.69E-04	4.06E-04	2.12E-03	1.21E-04	2.17E-04	1.85E-03	4.99E-03
2.57E-04	3.94E-04	1.87E-03	1.06E-04	1.69E-03	1.69E-03	6.00E-03	2.57E-04	3.94E-04	1.87E-03	1.06E-04	1.90E-04	1.69E-03	4.51E-03
2.47E-04	3.85E-04	1.68E-03	9.47E-05	1.55E-03	1.55E-03	5.51E-03	2.47E-04	3.85E-04	1.68E-03	9.47E-05	1.71E-04	1.55E-03	4.13E-03
2.43E-04	3.97E-04	1.60E-03	9.05E-05	1.49E-03	1.49E-03	5.31E-03	2.43E-04	3.97E-04	1.60E-03	9.05E-05	1.63E-04	1.49E-03	3.98E-03
2.41E-04	4.11E-04	1.55E-03	8.81E-05	1.45E-03	1.45E-03	5.19E-03	2.41E-04	4.11E-04	1.55E-03	8.81E-05	1.59E-04	1.45E-03	3.90E-03
2.40E-04	4.29E-04	1.53E-03	8.72E-05	1.42E-03	1.42E-03	5.13E-03	2.40E-04	4.29E-04	1.53E-03	8.72E-05	1.57E-04	1.42E-03	3.86E-03
2.44E-04	4.63E-04	1.58E-03	9.07E-05	1.45E-03	1.45E-03	5.28E-03	2.44E-04	4.63E-04	1.58E-03	9.07E-05	1.65E-04	1.45E-03	3.99E-03
2.52E-04	5.15E-04	1.69E-03	9.78E-05	1.51E-03	1.51E-03	5.57E-03	2.52E-04	5.15E-04	1.69E-03	9.78E-05	1.77E-04	1.51E-03	4.24E-03
2.76E-04	6.30E-04	2.02E-03	1.18E-04	1.73E-03	1.73E-03	6.51E-03	2.76E-04	6.30E-04	2.02E-03	1.18E-04	2.15E-04	1.73E-03	4.99E-03
9.88E-05	3.39E-04	4.02E-04	2.29E-05	2.76E-04	2.76E-04	1.41E-03	9.88E-05	3.39E-04	4.02E-04	2.29E-05	4.04E-05	2.76E-04	1.18E-03
1.00E-04	3.48E-04	4.17E-04	2.40E-05	2.83E-04	2.83E-04	1.46E-03	1.00E-04	3.48E-04	4.17E-04	2.40E-05	4.21E-05	2.83E-04	1.21E-03
1.03E-04	3.61E-04	4.44E-04	2.55E-05	2.97E-04	2.97E-04	1.53E-03	1.03E-04	3.61E-04	4.44E-04	2.55E-05	4.45E-05	2.97E-04	1.27E-03
1.07E-04	3.82E-04	4.90E-04	2.77E-05	3.24E-04	3.24E-04	1.66E-03	1.07E-04	3.82E-04	4.90E-04	2.77E-05	4.80E-05	3.24E-04	1.38E-03
1.10E-04	3.95E-04	5.23E-04	2.95E-05	3.42E-04	3.42E-04	1.74E-03	1.10E-04	3.95E-04	5.23E-04	2.95E-05	5.10E-05	3.42E-04	1.45E-03
1.14E-04	4.14E-04	5.75E-04	3.22E-05	3.73E-04	3.73E-04	1.88E-03	1.14E-04	4.14E-04	5.75E-04	3.22E-05	5.50E-05	3.73E-04	1.56E-03
1.10E-04	3.87E-04	5.22E-04	3.14E-05	3.38E-04	3.38E-04	1.73E-03	1.10E-04	3.87E-04	5.22E-04	3.14E-05	5.36E-05	3.38E-04	1.44E-03
9.96E-05	2.99E-04	3.69E-04	2.49E-05	2.58E-04	2.58E-04	1.31E-03	9.96E-05	2.99E-04	3.69E-04	2.49E-05	4.19E-05	2.58E-04	1.09E-03
8.38E-05	1.57E-04	2.12E-04	1.37E-05	1.78E-04	1.78E-04	8.24E-04	8.38E-05	1.57E-04	2.12E-04	1.37E-05	2.32E-05	1.78E-04	6.69E-04
7.00E-05	5.48E-05	1.10E-04	6.09E-06	1.21E-04	1.21E-04	4.82E-04	7.00E-05	5.48E-05	1.10E-04	6.09E-06	1.08E-05	1.21E-04	3.72E-04
8.87E-05	1.73E-04	2.45E-04	1.59E-05	2.02E-04	2.02E-04	9.26E-04	8.87E-05	1.73E-04	2.45E-04	1.59E-05	2.68E-05	2.02E-04	7.51E-04
9.64E-05	2.16E-04	3.08E-04	2.04E-05	2.37E-04	2.37E-04	1.11E-03	9.64E-05	2.16E-04	3.08E-04	2.04E-05	3.40E-05	2.37E-04	9.12E-04
9.84E-05	2.06E-04	3.03E-04	2.00E-05	2.42E-04	2.42E-04	1.11E-03	9.84E-05	2.06E-04	3.03E-04	2.00E-05	3.38E-05	2.42E-04	9.03E-04
1.00E-04	1.90E-04	2.98E-04	1.93E-05	2.44E-04	2.44E-04	1.10E-03	1.00E-04	1.90E-04	2.98E-04	1.93E-05	3.23E-05	2.44E-04	8.84E-04
9.03E-05	8.53E-05	1.77E-04	1.03E-05	1.84E-04	1.84E-04	7.31E-04	9.03E-05	8.53E-05	1.77E-04	1.03E-05	1.72E-05	1.84E-04	5.65E-04
8.87E-05	6.43E-05	1.51E-04	8.37E-06	1.71E-04	1.71E-04	6.55E-04	8.87E-05	6.43E-05	1.51E-04	8.37E-06	1.41E-05	1.71E-04	4.98E-04
1.37E-04	3.66E-04	6.92E-04	4.99E-05	4.70E-04	4.70E-04	2.18E-03	1.37E-04	3.66E-04	6.92E-04	4.99E-05	8.42E-05	4.70E-04	1.80E-03
1.72E-04	5.45E-04	1.51E-03	8.99E-05	8.63E-04	8.63E-04	4.05E-03	1.72E-04	5.45E-04	1.51E-03	8.99E-05	1.65E-04	8.63E-04	3.35E-03
1.91E-04	5.98E-04	2.00E-03	1.08E-04	1.15E-03	1.15E-03	5.20E-03	1.91E-04	5.98E-04	2.00E-03	1.08E-04	1.98E-04	1.15E-03	4.25E-03
2.02E-04	6.10E-04	2.31E-03	1.22E-04	1.32E-03	1.32E-03	5.88E-03	2.02E-04	6.10E-04	2.31E-03	1.22E-04	2.24E-04	1.32E-03	4.78E-03
2.12E-04	6.29E-04	2.67E-03	1.39E-04	1.53E-03	1.53E-03	6.72E-03	2.12E-04	6.29E-04	2.67E-03	1.39E-04	2.55E-04	1.53E-03	5.44E-03
2.29E-04	6.50E-04	3.21E-03	1.62E-04	1.89E-03	1.89E-03	8.03E-03	2.29E-04	6.50E-04	3.21E-03	1.62E-04	2.95E-04	1.89E-03	6.43E-03
2.57E-04	6.86E-04	4.02E-03	1.87E-04	2.84E-03	2.84E-03	1.08E-02	2.57E-04	6.86E-04	4.02E-03	1.87E-04	3.44E-04	2.84E-03	8.34E-03
2.79E-04	7.03E-04	4.60E-03	2.01E-04	4.28E-03	4.28E-03	1.43E-02	2.79E-04	7.03E-04	4.60E-03	2.01E-04	3.74E-04	4.28E-03	1.04E-02
3.01E-04	7.25E-04	5.28E-03	2.27E-04	5.21E-03	5.21E-03	1.69E-02	3.01E-04	7.25E-04	5.28E-03	2.27E-04	4.36E-04	5.21E-03	1.22E-02
3.32E-04	7.55E-04	6.16E-03	2.61E-04	6.34E-03	6.34E-03	2.02E-02	3.32E-04	7.55E-04	6.16E-03	2.61E-04	5.08E-04	6.34E-03	1.44E-02
3.71E-04	7.79E-04	7.28E-03	3.00E-04	7.63E-03	7.63E-03	2.40E-02	3.71E-04	7.79E-04	7.28E-03	3.00E-04	5.90E-04	7.63E-03	1.70E-02
4.37E-04	8.10E-04	8.81E-03	3.50E-04	9.50E-03	9.50E-03	2.94E-02	4.37E-04	8.10E-04	8.81E-03	3.50E-04	6.76E-04	9.50E-03	2.06E-02
5.34E-04	8.48E-04	1.10E-02	4.15E-04	1.22E-02	1.22E-02	3.71E-02	5.34E-04	8.48E-04	1.10E-02	4.15E-04	7.61E-04	1.22E-02	2.57E-02
7.01E-04	8.83E-04	1.46E-02	5.08E-04	1.80E-02	1.80E-02	5.26E-02	7.01E-04	8.83E-04	1.46E-02	5.08E-04	8.54E-04	1.80E-02	3.55E-02
1.15E-03	9.35E-04	2.16E-02	6.54E-04	5.85E-02	5.85E-02	1.41E-01	1.15E-03	9.35E-04	2.16E-02	6.54E-04	9.41E-04	5.85E-02	8.38E-02
7.30E-03	1.04E-03	4.82E-02	9.42E-04	2.27E-02	2.27E-02	1.03E-01	7.30E-03	1.04E-03	4.82E-02	9.42E-04	9.67E-04	2.27E-02	8.11E-02
3.73E-03	1.16E-03	1.45E-01	2.14E-03	1.65E-02	1.65E-02	1.85E-01	3.73E-03	1.16E-03	1.45E-01	2.14E-03	1.12E-03	1.65E-02	1.70E-01
8.70E-03	1.24E-03	6.47E-02	3.51E-03	1.45E-02	1.45E-02	1.07E-01	8.70E-03	1.24E-03	6.47E-02	3.51E-03	1.18E-03	1.45E-02	9.38E-02
2.55E-03	1.36E-03	3.96E-02	1.78E-03	2.91E-02	2.91E-02	1.04E-01	2.55E-03	1.36E-03	3.96E-02	1.78E-03	1.38E-03	2.91E-02	7.58E-02
1.70E-03	1.41E-03	2.86E-02	1.26E-03	1.84E-02	1.84E-02	6.97E-02	1.70E-03	1.41E-03	2.86E-02	1.26E-03	1.25E-03	1.84E-02	5.26E-02
1.31E-03	1.29E-03	2.22E-02	1.01E-03	1.33E-02	1.33E-02	5.24E-02	1.31E-03	1.29E-03	2.22E-02	1.01E-03	1.16E-03	1.33E-02	4.03E-02
1.08E-03	1.19E-03	1.78E-02	8.42E-04	1.10E-02	1.10E-02	4.28E-02	1.08E-03	1.19E-03	1.78E-02	8.42E-04	1.07E-03	1.10E-02	3.29E-02
9.36E-04	1.18E-03	1.47E-02	7.16E-04	9.61E-03	9.61E-03	3.67E-02	9.36E-04	1.18E-03	1.47E-02	7.16E-04	9.78E-04	9.61E-03	2.81E-02

8.30E-04	1.22E-03	1.24E-02	6.18E-04	8.60E-03	8.60E-03	3.23E-02	8.30E-04	1.22E-03	1.24E-02	6.18E-04	8.98E-04	8.60E-03	2.46E-02
7.16E-04	1.16E-03	1.04E-02	5.34E-04	7.37E-03	7.37E-03	2.76E-02	7.16E-04	1.16E-03	1.04E-02	5.34E-04	8.23E-04	7.37E-03	2.10E-02
6.07E-04	1.05E-03	8.47E-03	4.55E-04	6.11E-03	6.11E-03	2.28E-02	6.07E-04	1.05E-03	8.47E-03	4.55E-04	7.37E-04	6.11E-03	1.74E-02
4.77E-04	8.65E-04	5.74E-03	3.29E-04	4.43E-03	4.43E-03	1.63E-02	4.77E-04	8.65E-04	5.74E-03	3.29E-04	5.54E-04	4.43E-03	1.24E-02
3.86E-04	7.10E-04	3.85E-03	2.20E-04	3.21E-03	3.21E-03	1.16E-02	3.86E-04	7.10E-04	3.85E-03	2.20E-04	3.71E-04	3.21E-03	8.74E-03
3.47E-04	6.55E-04	3.11E-03	1.77E-04	2.71E-03	2.71E-03	9.72E-03	3.47E-04	6.55E-04	3.11E-03	1.77E-04	3.02E-04	2.71E-03	7.30E-03
3.24E-04	6.33E-04	2.71E-03	1.54E-04	2.44E-03	2.44E-03	8.70E-03	3.24E-04	6.33E-04	2.71E-03	1.54E-04	2.66E-04	2.44E-03	6.53E-03
3.09E-04	6.14E-04	2.43E-03	1.38E-04	2.23E-03	2.23E-03	7.94E-03	3.09E-04	6.14E-04	2.43E-03	1.38E-04	2.41E-04	2.23E-03	5.96E-03
2.88E-04	5.61E-04	2.06E-03	1.16E-04	1.94E-03	1.94E-03	6.91E-03	2.88E-04	5.61E-04	2.06E-03	1.16E-04	2.03E-04	1.94E-03	5.17E-03
2.79E-04	5.53E-04	1.90E-03	1.07E-04	1.82E-03	1.82E-03	6.47E-03	2.79E-04	5.53E-04	1.90E-03	1.07E-04	1.89E-04	1.82E-03	4.85E-03
2.70E-04	5.44E-04	1.77E-03	9.99E-05	1.70E-03	1.70E-03	6.09E-03	2.70E-04	5.44E-04	1.77E-03	9.99E-05	1.78E-04	1.70E-03	4.57E-03
2.69E-04	5.59E-04	1.75E-03	9.93E-05	1.67E-03	1.67E-03	6.02E-03	2.69E-04	5.59E-04	1.75E-03	9.93E-05	1.78E-04	1.67E-03	4.53E-03
2.68E-04	5.76E-04	1.73E-03	9.89E-05	1.64E-03	1.64E-03	5.95E-03	2.68E-04	5.76E-04	1.73E-03	9.89E-05	1.77E-04	1.64E-03	4.49E-03
2.66E-04	5.80E-04	1.69E-03	9.68E-05	1.59E-03	1.59E-03	5.81E-03	2.66E-04	5.80E-04	1.69E-03	9.68E-05	1.73E-04	1.59E-03	4.39E-03
2.81E-04	6.57E-04	1.89E-03	1.10E-04	1.72E-03	1.72E-03	6.38E-03	2.81E-04	6.57E-04	1.89E-03	1.10E-04	1.97E-04	1.72E-03	4.86E-03
2.95E-04	7.30E-04	2.09E-03	1.22E-04	1.87E-03	1.87E-03	6.98E-03	2.95E-04	7.30E-04	2.09E-03	1.22E-04	2.21E-04	1.87E-03	5.33E-03
9.72E-05	3.31E-04	4.20E-04	2.36E-05	2.91E-04	2.91E-04	1.45E-03	9.72E-05	3.31E-04	4.20E-04	2.36E-05	4.09E-05	2.91E-04	1.20E-03
9.88E-05	3.40E-04	4.37E-04	2.48E-05	2.98E-04	2.98E-04	1.50E-03	9.88E-05	3.40E-04	4.37E-04	2.48E-05	4.27E-05	2.98E-04	1.24E-03
1.00E-04	3.48E-04	4.56E-04	2.61E-05	3.07E-04	3.07E-04	1.55E-03	1.00E-04	3.48E-04	4.56E-04	2.61E-05	4.46E-05	3.07E-04	1.28E-03
1.03E-04	3.61E-04	4.94E-04	2.81E-05	3.28E-04	3.28E-04	1.64E-03	1.03E-04	3.61E-04	4.94E-04	2.81E-05	4.76E-05	3.28E-04	1.36E-03
1.08E-04	3.84E-04	5.65E-04	3.12E-05	3.77E-04	3.77E-04	1.84E-03	1.08E-04	3.84E-04	5.65E-04	3.12E-05	5.24E-05	3.77E-04	1.52E-03
1.08E-04	3.84E-04	5.72E-04	3.26E-05	3.71E-04	3.71E-04	1.84E-03	1.08E-04	3.84E-04	5.72E-04	3.26E-05	5.44E-05	3.71E-04	1.52E-03
1.03E-04	3.53E-04	4.97E-04	3.10E-05	3.19E-04	3.19E-04	1.62E-03	1.03E-04	3.53E-04	4.97E-04	3.10E-05	5.14E-05	3.19E-04	1.35E-03
9.64E-05	2.94E-04	3.83E-04	2.61E-05	2.61E-04	2.61E-04	1.32E-03	9.64E-05	2.94E-04	3.83E-04	2.61E-05	4.32E-05	2.61E-04	1.10E-03
8.50E-05	1.96E-04	2.54E-04	1.73E-05	1.98E-04	1.98E-04	9.49E-04	8.50E-05	1.96E-04	2.54E-04	1.73E-05	2.89E-05	1.98E-04	7.79E-04
7.89E-05	1.30E-04	1.89E-04	1.20E-05	1.68E-04	1.68E-04	7.46E-04	7.89E-05	1.30E-04	1.89E-04	1.20E-05	2.04E-05	1.68E-04	5.98E-04
8.14E-05	1.41E-04	2.07E-04	1.32E-05	1.81E-04	1.81E-04	8.05E-04	8.14E-05	1.41E-04	2.07E-04	1.32E-05	2.24E-05	1.81E-04	6.46E-04
8.46E-05	1.53E-04	2.32E-04	1.50E-05	1.97E-04	1.97E-04	8.79E-04	8.46E-05	1.53E-04	2.32E-04	1.50E-05	2.46E-05	1.97E-04	7.06E-04
8.58E-05	1.40E-04	2.22E-04	1.42E-05	1.97E-04	1.97E-04	8.56E-04	8.58E-05	1.40E-04	2.22E-04	1.42E-05	2.34E-05	1.97E-04	6.82E-04
9.43E-05	1.91E-04	2.97E-04	2.01E-05	2.42E-04	2.42E-04	1.09E-03	9.43E-05	1.91E-04	2.97E-04	2.01E-05	3.26E-05	2.42E-04	8.78E-04
9.92E-05	2.01E-04	3.23E-04	2.19E-05	2.62E-04	2.62E-04	1.17E-03	9.92E-05	2.01E-04	3.23E-04	2.19E-05	3.62E-05	2.62E-04	9.44E-04
9.35E-05	1.24E-04	2.26E-04	1.42E-05	2.16E-04	2.16E-04	8.91E-04	9.35E-05	1.24E-04	2.26E-04	1.42E-05	2.37E-05	2.16E-04	6.98E-04
1.30E-04	3.61E-04	7.28E-04	5.19E-05	4.85E-04	4.85E-04	2.24E-03	1.30E-04	3.61E-04	7.28E-04	5.19E-05	9.02E-05	4.85E-04	1.85E-03
1.65E-04	5.17E-04	1.57E-03	8.82E-05	9.21E-04	9.21E-04	4.18E-03	1.65E-04	5.17E-04	1.57E-03	8.82E-05	1.60E-04	9.21E-04	3.42E-03
1.84E-04	5.54E-04	1.96E-03	1.02E-04	1.21E-03	1.21E-03	5.23E-03	1.84E-04	5.54E-04	1.96E-03	1.02E-04	1.86E-04	1.21E-03	4.20E-03
1.94E-04	5.62E-04	2.20E-03	1.14E-04	1.35E-03	1.35E-03	5.78E-03	1.94E-04	5.62E-04	2.20E-03	1.14E-04	2.07E-04	1.35E-03	4.63E-03
2.05E-04	5.82E-04	2.52E-03	1.28E-04	1.57E-03	1.57E-03	6.58E-03	2.05E-04	5.82E-04	2.52E-03	1.28E-04	2.32E-04	1.57E-03	5.24E-03
2.14E-04	5.89E-04	2.83E-03	1.45E-04	1.75E-03	1.75E-03	7.27E-03	2.14E-04	5.89E-04	2.83E-03	1.45E-04	2.63E-04	1.75E-03	5.79E-03
2.30E-04	6.13E-04	3.29E-03	1.65E-04	2.11E-03	2.11E-03	8.52E-03	2.30E-04	6.13E-04	3.29E-03	1.65E-04	3.03E-04	2.11E-03	6.71E-03
2.53E-04	6.55E-04	3.98E-03	1.84E-04	3.06E-03	3.06E-03	1.12E-02	2.53E-04	6.55E-04	3.98E-03	1.84E-04	3.44E-04	3.06E-03	8.47E-03
2.73E-04	6.85E-04	4.42E-03	1.96E-04	4.06E-03	4.06E-03	1.37E-02	2.73E-04	6.85E-04	4.42E-03	1.96E-04	3.69E-04	4.06E-03	1.00E-02
2.93E-04	7.18E-04	4.91E-03	2.15E-04	4.74E-03	4.74E-03	1.56E-02	2.93E-04	7.18E-04	4.91E-03	2.15E-04	4.02E-04	4.74E-03	1.13E-02
3.21E-04	7.57E-04	5.65E-03	2.42E-04	5.51E-03	5.51E-03	1.80E-02	3.21E-04	7.57E-04	5.65E-03	2.42E-04	4.47E-04	5.51E-03	1.29E-02
3.62E-04	8.04E-04	6.53E-03	2.73E-04	6.63E-03	6.63E-03	2.12E-02	3.62E-04	8.04E-04	6.53E-03	2.73E-04	4.84E-04	6.63E-03	1.51E-02
4.21E-04	8.66E-04	7.57E-03	3.09E-04	8.49E-03	8.49E-03	2.61E-02	4.21E-04	8.66E-04	7.57E-03	3.09E-04	5.20E-04	8.49E-03	1.82E-02
5.01E-04	9.46E-04	9.05E-03	3.56E-04	1.29E-02	1.29E-02	3.66E-02	5.01E-04	9.46E-04	9.05E-03	3.56E-04	5.60E-04	1.29E-02	2.43E-02
6.23E-04	1.04E-03	1.11E-02	4.17E-04	5.94E-02	5.94E-02	1.32E-01	6.23E-04	1.04E-03	1.11E-02	4.17E-04	5.65E-04	5.94E-02	7.31E-02
8.53E-04	1.14E-03	1.41E-02	4.95E-04	7.81E-02	7.81E-02	1.73E-01	8.53E-04	1.14E-03	1.41E-02	4.95E-04	5.61E-04	7.81E-02	9.52E-02
1.52E-03	1.28E-03	2.04E-02	6.31E-04	3.68E-02	3.68E-02	9.75E-02	1.52E-03	1.28E-03	2.04E-02	6.31E-04	5.92E-04	3.68E-02	6.13E-02
1.95E-02	1.60E-03	6.53E-02	1.06E-03	2.42E-02	2.42E-02	1.36E-01	1.95E-02	1.60E-03	6.53E-02	1.06E-03	6.51E-04	2.42E-02	1.12E-01
1.22E-02	2.06E-03	4.24E-02	2.69E-03	1.84E-02	1.84E-02	9.61E-02	1.22E-02	2.06E-03	4.24E-02	2.69E-03	6.78E-04	1.84E-02	7.84E-02
3.08E-03	2.32E-03	2.48E-02	1.25E-03	1.57E-02	1.57E-02	6.29E-02	3.08E-03	2.32E-03	2.48E-02	1.25E-03	6.59E-04	1.57E-02	4.78E-02
1.94E-03	2.22E-03	1.85E-02	9.10E-04	1.38E-02	1.38E-02	5.11E-02	1.94E-03	2.22E-03	1.85E-02	9.10E-04	6.91E-04	1.38E-02	3.80E-02
1.46E-03	2.21E-03	1.49E-02	7.37E-04	1.23E-02	1.23E-02	4.38E-02	1.46E-03	2.21E-03	1.49E-02	7.37E-04	7.08E-04	1.23E-02	3.23E-02

1.19E-03	2.28E-03	1.24E-02	6.18E-04	1.09E-02	1.09E-02	3.84E-02	1.19E-03	2.28E-03	1.24E-02	6.18E-04	6.90E-04	1.09E-02	2.81E-02
1.01E-03	2.29E-03	1.06E-02	5.30E-04	9.72E-03	9.72E-03	3.38E-02	1.01E-03	2.29E-03	1.06E-02	5.30E-04	6.56E-04	9.72E-03	2.48E-02
8.30E-04	1.97E-03	8.90E-03	4.55E-04	8.05E-03	8.05E-03	2.83E-02	8.30E-04	1.97E-03	8.90E-03	4.55E-04	6.19E-04	8.05E-03	2.08E-02
6.32E-04	1.45E-03	6.64E-03	3.60E-04	5.91E-03	5.91E-03	2.09E-02	6.32E-04	1.45E-03	6.64E-03	3.60E-04	5.35E-04	5.91E-03	1.55E-02
4.90E-04	1.08E-03	4.18E-03	2.35E-04	4.00E-03	4.00E-03	1.40E-02	4.90E-04	1.08E-03	4.18E-03	2.35E-04	3.60E-04	4.00E-03	1.03E-02
4.83E-04	1.18E-03	4.27E-03	2.43E-04	4.06E-03	4.06E-03	1.43E-02	4.83E-04	1.18E-03	4.27E-03	2.43E-04	3.88E-04	4.06E-03	1.06E-02
4.32E-04	1.10E-03	3.54E-03	2.01E-04	3.42E-03	3.42E-03	1.21E-02	4.32E-04	1.10E-03	3.54E-03	2.01E-04	3.27E-04	3.42E-03	9.01E-03
3.98E-04	1.05E-03	3.14E-03	1.79E-04	3.05E-03	3.05E-03	1.09E-02	3.98E-04	1.05E-03	3.14E-03	1.79E-04	2.97E-04	3.05E-03	8.12E-03
3.67E-04	9.73E-04	2.73E-03	1.56E-04	2.69E-03	2.69E-03	9.60E-03	3.67E-04	9.73E-04	2.73E-03	1.56E-04	2.62E-04	2.69E-03	7.18E-03
3.43E-04	9.03E-04	2.41E-03	1.38E-04	2.40E-03	2.40E-03	8.59E-03	3.43E-04	9.03E-04	2.41E-03	1.38E-04	2.34E-04	2.40E-03	6.43E-03
3.19E-04	8.10E-04	2.09E-03	1.18E-04	2.11E-03	2.11E-03	7.55E-03	3.19E-04	8.10E-04	2.09E-03	1.18E-04	2.04E-04	2.11E-03	5.65E-03
3.10E-04	7.85E-04	2.00E-03	1.14E-04	2.00E-03	2.00E-03	7.22E-03	3.10E-04	7.85E-04	2.00E-03	1.14E-04	1.99E-04	2.00E-03	5.41E-03
3.02E-04	7.56E-04	1.90E-03	1.08E-04	1.90E-03	1.90E-03	6.86E-03	3.02E-04	7.56E-04	1.90E-03	1.08E-04	1.91E-04	1.90E-03	5.15E-03
3.04E-04	7.76E-04	1.95E-03	1.12E-04	1.91E-03	1.91E-03	6.95E-03	3.04E-04	7.76E-04	1.95E-03	1.12E-04	1.99E-04	1.91E-03	5.24E-03
3.01E-04	7.69E-04	1.91E-03	1.10E-04	1.86E-03	1.86E-03	6.82E-03	3.01E-04	7.69E-04	1.91E-03	1.10E-04	1.99E-04	1.86E-03	5.16E-03
3.14E-04	8.33E-04	2.07E-03	1.20E-04	1.96E-03	1.96E-03	7.27E-03	3.14E-04	8.33E-04	2.07E-03	1.20E-04	2.17E-04	1.96E-03	5.52E-03
3.32E-04	9.20E-04	2.30E-03	1.32E-04	2.14E-03	2.14E-03	7.96E-03	3.32E-04	9.20E-04	2.30E-03	1.32E-04	2.39E-04	2.14E-03	6.06E-03
9.47E-05	3.19E-04	4.31E-04	2.39E-05	2.93E-04	2.93E-04	1.46E-03	9.47E-05	3.19E-04	4.31E-04	2.39E-05	4.00E-05	2.93E-04	1.20E-03
9.59E-05	3.25E-04	4.46E-04	2.51E-05	2.99E-04	2.99E-04	1.49E-03	9.59E-05	3.25E-04	4.46E-04	2.51E-05	4.17E-05	2.99E-04	1.23E-03
9.92E-05	3.38E-04	4.86E-04	2.71E-05	3.24E-04	3.24E-04	1.60E-03	9.92E-05	3.38E-04	4.86E-04	2.71E-05	4.47E-05	3.24E-04	1.32E-03
1.02E-04	3.49E-04	5.23E-04	2.91E-05	3.45E-04	3.45E-04	1.69E-03	1.02E-04	3.49E-04	5.23E-04	2.91E-05	4.79E-05	3.45E-04	1.40E-03
1.06E-04	3.66E-04	5.83E-04	3.16E-05	3.86E-04	3.86E-04	1.86E-03	1.06E-04	3.66E-04	5.83E-04	3.16E-05	5.23E-05	3.86E-04	1.53E-03
1.06E-04	3.70E-04	5.98E-04	3.30E-05	3.86E-04	3.86E-04	1.88E-03	1.06E-04	3.70E-04	5.98E-04	3.30E-05	5.51E-05	3.86E-04	1.55E-03
1.02E-04	3.50E-04	5.42E-04	3.22E-05	3.45E-04	3.45E-04	1.72E-03	1.02E-04	3.50E-04	5.42E-04	3.22E-05	5.44E-05	3.45E-04	1.43E-03
8.06E-05	1.93E-04	2.43E-04	1.66E-05	1.88E-04	1.88E-04	9.10E-04	8.06E-05	1.93E-04	2.43E-04	1.66E-05	2.78E-05	1.88E-04	7.50E-04
7.49E-05	1.33E-04	1.83E-04	1.18E-05	1.59E-04	1.59E-04	7.22E-04	7.49E-05	1.33E-04	1.83E-04	1.18E-05	2.00E-05	1.59E-04	5.82E-04
7.81E-05	1.52E-04	2.12E-04	1.40E-05	1.77E-04	1.77E-04	8.09E-04	7.81E-05	1.52E-04	2.12E-04	1.40E-05	2.32E-05	1.77E-04	6.56E-04
7.00E-05	8.23E-05	1.38E-04	8.39E-06	1.39E-04	1.39E-04	5.76E-04	7.00E-05	8.23E-05	1.38E-04	8.39E-06	1.41E-05	1.39E-04	4.52E-04
7.57E-05	1.08E-04	1.75E-04	1.10E-05	1.62E-04	1.62E-04	6.95E-04	7.57E-05	1.08E-04	1.75E-04	1.10E-05	1.80E-05	1.62E-04	5.51E-04
7.77E-05	1.11E-04	1.81E-04	1.14E-05	1.70E-04	1.70E-04	7.21E-04	7.77E-05	1.11E-04	1.81E-04	1.14E-05	1.91E-05	1.70E-04	5.71E-04
8.34E-05	1.42E-04	2.26E-04	1.48E-05	2.00E-04	2.00E-04	8.67E-04	8.34E-05	1.42E-04	2.26E-04	1.48E-05	2.50E-05	2.00E-04	6.92E-04
1.04E-04	2.82E-04	4.76E-04	3.38E-05	3.44E-04	3.44E-04	1.58E-03	1.04E-04	2.82E-04	4.76E-04	3.38E-05	5.86E-05	3.44E-04	1.30E-03
1.01E-04	2.38E-04	3.99E-04	2.85E-05	3.10E-04	3.10E-04	1.39E-03	1.01E-04	2.38E-04	3.99E-04	2.85E-05	4.84E-05	3.10E-04	1.12E-03
9.96E-05	1.89E-04	3.25E-04	2.26E-05	2.71E-04	2.71E-04	1.18E-03	9.96E-05	1.89E-04	3.25E-04	2.26E-05	3.81E-05	2.71E-04	9.45E-04
1.57E-04	4.96E-04	1.58E-03	8.42E-05	9.93E-04	9.93E-04	4.30E-03	1.57E-04	4.96E-04	1.58E-03	8.42E-05	1.55E-04	9.93E-04	3.46E-03
1.69E-04	5.17E-04	1.85E-03	9.46E-05	1.21E-03	1.21E-03	5.06E-03	1.69E-04	5.17E-04	1.85E-03	9.46E-05	1.73E-04	1.21E-03	4.02E-03
1.79E-04	5.33E-04	2.10E-03	1.05E-04	1.41E-03	1.41E-03	5.74E-03	1.79E-04	5.33E-04	2.10E-03	1.05E-04	1.90E-04	1.41E-03	4.52E-03
1.89E-04	5.47E-04	2.33E-03	1.16E-04	1.58E-03	1.58E-03	6.35E-03	1.89E-04	5.47E-04	2.33E-03	1.16E-04	2.09E-04	1.58E-03	4.98E-03
2.00E-04	5.56E-04	2.62E-03	1.30E-04	1.80E-03	1.80E-03	7.10E-03	2.00E-04	5.56E-04	2.62E-03	1.30E-04	2.33E-04	1.80E-03	5.54E-03
2.13E-04	5.69E-04	2.89E-03	1.44E-04	1.96E-03	1.96E-03	7.74E-03	2.13E-04	5.69E-04	2.89E-03	1.44E-04	2.59E-04	1.96E-03	6.04E-03
2.27E-04	5.91E-04	3.26E-03	1.60E-04	2.30E-03	2.30E-03	8.84E-03	2.27E-04	5.91E-04	3.26E-03	1.60E-04	2.91E-04	2.30E-03	6.83E-03
2.55E-04	6.39E-04	3.67E-03	1.66E-04	3.37E-03	3.37E-03	1.15E-02	2.55E-04	6.39E-04	3.67E-03	1.66E-04	2.97E-04	3.37E-03	8.40E-03
2.70E-04	6.73E-04	3.98E-03	1.79E-04	3.88E-03	3.88E-03	1.29E-02	2.70E-04	6.73E-04	3.98E-03	1.79E-04	3.16E-04	3.88E-03	9.30E-03
2.89E-04	7.15E-04	4.43E-03	1.97E-04	4.55E-03	4.55E-03	1.47E-02	2.89E-04	7.15E-04	4.43E-03	1.97E-04	3.45E-04	4.55E-03	1.05E-02
3.13E-04	7.66E-04	4.95E-03	2.16E-04	5.53E-03	5.53E-03	1.73E-02	3.13E-04	7.66E-04	4.95E-03	2.16E-04	3.70E-04	5.53E-03	1.21E-02
3.49E-04	8.37E-04	5.50E-03	2.37E-04	7.24E-03	7.24E-03	2.14E-02	3.49E-04	8.37E-04	5.50E-03	2.37E-04	3.86E-04	7.24E-03	1.46E-02
3.98E-04	9.39E-04	6.20E-03	2.62E-04	1.13E-02	1.13E-02	3.04E-02	3.98E-04	9.39E-04	6.20E-03	2.62E-04	3.98E-04	1.13E-02	1.95E-02
4.62E-04	1.07E-03	6.88E-03	2.88E-04	5.54E-02	5.54E-02	1.20E-01	4.62E-04	1.07E-03	6.88E-03	2.88E-04	3.90E-04	5.54E-02	6.45E-02
5.57E-04	1.26E-03	7.71E-03	3.20E-04	8.04E-02	8.04E-02	1.71E-01	5.57E-04	1.26E-03	7.71E-03	3.20E-04	3.86E-04	8.04E-02	9.06E-02
7.22E-04	1.57E-03	8.89E-03	3.71E-04	8.22E-02	8.22E-02	1.76E-01	7.22E-04	1.57E-03	8.89E-03	3.71E-04	4.24E-04	8.22E-02	9.42E-02
1.04E-03	2.11E-03	9.88E-03	4.42E-04	4.02E-02	4.02E-02	9.39E-02	1.04E-03	2.11E-03	9.88E-03	4.42E-04	4.31E-04	4.02E-02	5.41E-02
2.22E-03	3.53E-03	1.15E-02	6.39E-04	6.80E-02	6.80E-02	1.54E-01	2.22E-03	3.53E-03	1.15E-02	6.39E-04	4.52E-04	6.80E-02	8.63E-02
2.36E-02	1.65E-02	2.46E-02	2.31E-03	3.28E-02	3.28E-02	1.33E-01	2.36E-02	1.65E-02	2.46E-02	2.31E-03	4.71E-04	3.28E-02	1.00E-01
4.45E-03	1.56E-02	1.17E-02	7.95E-04	2.23E-02	2.23E-02	7.72E-02	4.45E-03	1.56E-02	1.17E-02	7.95E-04	4.46E-04	2.23E-02	5.53E-02

2.49E-03	1.01E-02	1.00E-02	5.57E-04	1.71E-02	1.71E-02	5.74E-02	2.49E-03	1.01E-02	1.00E-02	5.57E-04	4.48E-04	1.71E-02	4.07E-02
1.73E-03	7.07E-03	8.91E-03	4.61E-04	1.35E-02	1.35E-02	4.51E-02	1.73E-03	7.07E-03	8.91E-03	4.61E-04	4.77E-04	1.35E-02	3.21E-02
1.23E-03	4.65E-03	7.73E-03	3.93E-04	1.01E-02	1.01E-02	3.42E-02	1.23E-03	4.65E-03	7.73E-03	3.93E-04	4.90E-04	1.01E-02	2.46E-02
8.80E-04	2.97E-03	6.12E-03	3.23E-04	7.21E-03	7.21E-03	2.47E-02	8.80E-04	2.97E-03	6.12E-03	3.23E-04	4.57E-04	7.21E-03	1.80E-02
6.70E-04	2.08E-03	4.32E-03	2.41E-04	5.15E-03	5.15E-03	1.76E-02	6.70E-04	2.08E-03	4.32E-03	2.41E-04	3.58E-04	5.15E-03	1.28E-02
6.55E-04	2.23E-03	4.69E-03	2.55E-04	5.33E-03	5.33E-03	1.85E-02	6.55E-04	2.23E-03	4.69E-03	2.55E-04	3.86E-04	5.33E-03	1.35E-02
6.66E-04	2.48E-03	4.92E-03	2.60E-04	5.52E-03	5.52E-03	1.94E-02	6.66E-04	2.48E-03	4.92E-03	2.60E-04	3.96E-04	5.52E-03	1.42E-02
5.89E-04	2.14E-03	4.34E-03	2.33E-04	4.76E-03	4.76E-03	1.68E-02	5.89E-04	2.14E-03	4.34E-03	2.33E-04	3.67E-04	4.76E-03	1.24E-02
5.04E-04	1.74E-03	3.48E-03	1.94E-04	3.80E-03	3.80E-03	1.35E-02	5.04E-04	1.74E-03	3.48E-03	1.94E-04	3.11E-04	3.80E-03	1.00E-02
4.61E-04	1.57E-03	3.14E-03	1.76E-04	3.41E-03	3.41E-03	1.22E-02	4.61E-04	1.57E-03	3.14E-03	1.76E-04	2.89E-04	3.41E-03	9.05E-03
4.20E-04	1.41E-03	2.77E-03	1.56E-04	2.97E-03	2.97E-03	1.07E-02	4.20E-04	1.41E-03	2.77E-03	1.56E-04	2.60E-04	2.97E-03	7.98E-03
3.86E-04	1.25E-03	2.44E-03	1.39E-04	2.61E-03	2.61E-03	9.43E-03	3.86E-04	1.25E-03	2.44E-03	1.39E-04	2.33E-04	2.61E-03	7.06E-03
3.66E-04	1.15E-03	2.27E-03	1.29E-04	2.40E-03	2.40E-03	8.72E-03	3.66E-04	1.15E-03	2.27E-03	1.29E-04	2.20E-04	2.40E-03	6.54E-03
3.55E-04	1.09E-03	2.20E-03	1.26E-04	2.29E-03	2.29E-03	8.35E-03	3.55E-04	1.09E-03	2.20E-03	1.26E-04	2.17E-04	2.29E-03	6.28E-03
3.46E-04	1.03E-03	2.13E-03	1.22E-04	2.20E-03	2.20E-03	8.03E-03	3.46E-04	1.03E-03	2.13E-03	1.22E-04	2.13E-04	2.20E-03	6.05E-03
3.38E-04	9.81E-04	2.07E-03	1.18E-04	2.11E-03	2.11E-03	7.71E-03	3.38E-04	9.81E-04	2.07E-03	1.18E-04	2.09E-04	2.11E-03	5.82E-03
3.53E-04	1.05E-03	2.26E-03	1.28E-04	2.26E-03	2.26E-03	8.32E-03	3.53E-04	1.05E-03	2.26E-03	1.28E-04	2.29E-04	2.26E-03	6.28E-03
3.71E-04	1.12E-03	2.42E-03	1.34E-04	2.42E-03	2.42E-03	8.90E-03	3.71E-04	1.12E-03	2.42E-03	1.34E-04	2.43E-04	2.42E-03	6.72E-03
9.19E-05	3.03E-04	4.41E-04	2.43E-05	2.95E-04	2.95E-04	1.45E-03	9.19E-05	3.03E-04	4.41E-04	2.43E-05	3.97E-05	2.95E-04	1.19E-03
9.43E-05	3.10E-04	4.66E-04	2.57E-05	3.09E-04	3.09E-04	1.52E-03	9.43E-05	3.10E-04	4.66E-04	2.57E-05	4.22E-05	3.09E-04	1.25E-03
9.68E-05	3.23E-04	5.08E-04	2.76E-05	3.36E-04	3.36E-04	1.63E-03	9.68E-05	3.23E-04	5.08E-04	2.76E-05	4.57E-05	3.36E-04	1.34E-03
9.96E-05	3.34E-04	5.46E-04	2.94E-05	3.59E-04	3.59E-04	1.73E-03	9.96E-05	3.34E-04	5.46E-04	2.94E-05	4.92E-05	3.59E-04	1.42E-03
1.02E-04	3.47E-04	5.93E-04	3.14E-05	3.89E-04	3.89E-04	1.85E-03	1.02E-04	3.47E-04	5.93E-04	3.14E-05	5.31E-05	3.89E-04	1.52E-03
1.04E-04	3.56E-04	6.23E-04	3.32E-05	4.03E-04	4.03E-04	1.92E-03	1.04E-04	3.56E-04	6.23E-04	3.32E-05	5.64E-05	4.03E-04	1.58E-03
9.96E-05	3.36E-04	5.55E-04	3.23E-05	3.54E-04	3.54E-04	1.73E-03	9.96E-05	3.36E-04	5.55E-04	3.23E-05	5.54E-05	3.54E-04	1.43E-03
8.99E-05	2.71E-04	3.89E-04	2.60E-05	2.63E-04	2.63E-04	1.30E-03	8.99E-05	2.71E-04	3.89E-04	2.60E-05	4.39E-05	2.63E-04	1.08E-03
7.89E-05	1.85E-04	2.48E-04	1.73E-05	1.89E-04	1.89E-04	9.06E-04	7.89E-05	1.85E-04	2.48E-04	1.73E-05	2.83E-05	1.89E-04	7.46E-04
7.08E-05	1.11E-04	1.64E-04	1.07E-05	1.47E-04	1.47E-04	6.50E-04	7.08E-05	1.11E-04	1.64E-04	1.07E-05	1.76E-05	1.47E-04	5.21E-04
6.96E-05	9.44E-05	1.50E-04	9.42E-06	1.41E-04	1.41E-04	6.04E-04	6.96E-05	9.44E-05	1.50E-04	9.42E-06	1.59E-05	1.41E-04	4.80E-04
6.68E-05	7.10E-05	1.24E-04	7.53E-06	1.28E-04	1.28E-04	5.25E-04	6.68E-05	7.10E-05	1.24E-04	7.53E-06	1.28E-05	1.28E-04	4.10E-04
6.96E-05	7.80E-05	1.35E-04	8.36E-06	1.38E-04	1.38E-04	5.67E-04	6.96E-05	7.80E-05	1.35E-04	8.36E-06	1.43E-05	1.38E-04	4.43E-04
8.18E-05	1.63E-04	2.49E-04	1.70E-05	2.06E-04	2.06E-04	9.23E-04	8.18E-05	1.63E-04	2.49E-04	1.70E-05	2.91E-05	2.06E-04	7.46E-04
9.43E-05	2.45E-04	4.07E-04	2.94E-05	3.00E-04	3.00E-04	1.38E-03	9.43E-05	2.45E-04	4.07E-04	2.94E-05	5.06E-05	3.00E-04	1.13E-03
1.11E-04	3.36E-04	7.02E-04	4.79E-05	4.65E-04	4.65E-04	2.13E-03	1.11E-04	3.36E-04	7.02E-04	4.79E-05	8.67E-05	4.65E-04	1.75E-03
1.28E-04	4.01E-04	1.05E-03	6.38E-05	6.53E-04	6.53E-04	2.95E-03	1.28E-04	4.01E-04	1.05E-03	6.38E-05	1.18E-04	6.53E-04	2.41E-03
1.42E-04	4.43E-04	1.38E-03	7.61E-05	8.60E-04	8.60E-04	3.76E-03	1.42E-04	4.43E-04	1.38E-03	7.61E-05	1.40E-04	8.60E-04	3.04E-03
1.55E-04	4.75E-04	1.69E-03	8.69E-05	1.11E-03	1.11E-03	4.63E-03	1.55E-04	4.75E-04	1.69E-03	8.69E-05	1.55E-04	1.11E-03	3.67E-03
1.66E-04	4.97E-04	1.91E-03	9.57E-05	1.33E-03	1.33E-03	5.33E-03	1.66E-04	4.97E-04	1.91E-03	9.57E-05	1.68E-04	1.33E-03	4.17E-03
1.75E-04	5.12E-04	2.12E-03	1.05E-04	1.53E-03	1.53E-03	5.97E-03	1.75E-04	5.12E-04	2.12E-03	1.05E-04	1.84E-04	1.53E-03	4.62E-03
1.84E-04	5.23E-04	2.34E-03	1.16E-04	1.73E-03	1.73E-03	6.62E-03	1.84E-04	5.23E-04	2.34E-03	1.16E-04	2.01E-04	1.73E-03	5.09E-03
1.94E-04	5.37E-04	2.56E-03	1.26E-04	1.91E-03	1.91E-03	7.23E-03	1.94E-04	5.37E-04	2.56E-03	1.26E-04	2.20E-04	1.91E-03	5.54E-03
2.06E-04	5.59E-04	2.84E-03	1.37E-04	2.23E-03	2.23E-03	8.20E-03	2.06E-04	5.59E-04	2.84E-03	1.37E-04	2.38E-04	2.23E-03	6.21E-03
2.25E-04	5.97E-04	3.13E-03	1.47E-04	2.79E-03	2.79E-03	9.69E-03	2.25E-04	5.97E-04	3.13E-03	1.47E-04	2.52E-04	2.79E-03	7.14E-03
2.41E-04	6.32E-04	3.25E-03	1.50E-04	3.35E-03	3.35E-03	1.10E-02	2.41E-04	6.32E-04	3.25E-03	1.50E-04	2.60E-04	3.35E-03	7.88E-03
2.60E-04	6.75E-04	3.53E-03	1.62E-04	3.91E-03	3.91E-03	1.24E-02	2.60E-04	6.75E-04	3.53E-03	1.62E-04	2.78E-04	3.91E-03	8.82E-03
2.82E-04	7.26E-04	3.85E-03	1.74E-04	4.69E-03	4.69E-03	1.44E-02	2.82E-04	7.26E-04	3.85E-03	1.74E-04	2.94E-04	4.69E-03	1.00E-02
3.10E-04	7.95E-04	4.14E-03	1.86E-04	5.96E-03	5.96E-03	1.74E-02	3.10E-04	7.95E-04	4.14E-03	1.86E-04	2.96E-04	5.96E-03	1.17E-02
3.42E-04	8.91E-04	4.41E-03	1.99E-04	8.27E-03	8.27E-03	2.24E-02	3.42E-04	8.91E-04	4.41E-03	1.99E-04	2.92E-04	8.27E-03	1.44E-02
3.79E-04	1.03E-03	4.69E-03	2.13E-04	1.34E-02	1.34E-02	3.31E-02	3.79E-04	1.03E-03	4.69E-03	2.13E-04	2.91E-04	1.34E-02	2.00E-02
4.28E-04	1.22E-03	4.95E-03	2.25E-04	5.33E-02	5.33E-02	1.13E-01	4.28E-04	1.22E-03	4.95E-03	2.25E-04	2.84E-04	5.33E-02	6.04E-02
4.99E-04	1.54E-03	5.19E-03	2.39E-04	6.96E-02	6.96E-02	1.47E-01	4.99E-04	1.54E-03	5.19E-03	2.39E-04	2.96E-04	6.96E-02	7.74E-02
6.17E-04	2.17E-03	5.47E-03	2.62E-04	7.46E-02	7.46E-02	1.58E-01	6.17E-04	2.17E-03	5.47E-03	2.62E-04	3.09E-04	7.46E-02	8.34E-02
8.25E-04	3.41E-03	5.77E-03	2.85E-04	8.74E-02	8.74E-02	1.85E-01	8.25E-04	3.41E-03	5.77E-03	2.85E-04	3.31E-04	8.74E-02	9.80E-02
1.31E-03	6.88E-03	5.92E-03	2.99E-04	5.76E-02	5.76E-02	1.30E-01	1.31E-03	6.88E-03	5.92E-03	2.99E-04	3.47E-04	5.76E-02	7.24E-02

3.61E-03	1.86E-02	5.70E-03	3.03E-04	2.88E-02	2.88E-02	8.57E-02	3.61E-03	1.86E-02	5.70E-03	3.03E-04	3.57E-04	2.88E-02	5.73E-02
1.21E-02	6.46E-02	5.86E-03	2.94E-04	2.01E-02	2.01E-02	1.23E-01	1.21E-02	6.46E-02	5.86E-03	2.94E-04	3.35E-04	2.01E-02	1.03E-01
3.83E-03	2.22E-02	5.87E-03	2.84E-04	1.52E-02	1.52E-02	6.25E-02	3.83E-03	2.22E-02	5.87E-03	2.84E-04	3.26E-04	1.52E-02	4.77E-02
2.09E-03	1.09E-02	5.53E-03	2.69E-04	1.10E-02	1.10E-02	4.09E-02	2.09E-03	1.09E-02	5.53E-03	2.69E-04	3.40E-04	1.10E-02	3.02E-02
1.24E-03	5.42E-03	4.45E-03	2.31E-04	7.10E-03	7.10E-03	2.55E-02	1.24E-03	5.42E-03	4.45E-03	2.31E-04	3.40E-04	7.10E-03	1.88E-02
1.17E-03	5.75E-03	4.80E-03	2.44E-04	7.55E-03	7.55E-03	2.71E-02	1.17E-03	5.75E-03	4.80E-03	2.44E-04	3.60E-04	7.55E-03	1.99E-02
9.92E-04	4.90E-03	4.53E-03	2.33E-04	6.72E-03	6.72E-03	2.41E-02	9.92E-04	4.90E-03	4.53E-03	2.33E-04	3.51E-04	6.72E-03	1.77E-02
8.86E-04	4.38E-03	4.31E-03	2.21E-04	6.15E-03	6.15E-03	2.21E-02	8.86E-04	4.38E-03	4.31E-03	2.21E-04	3.37E-04	6.15E-03	1.63E-02
7.45E-04	3.47E-03	3.92E-03	2.04E-04	5.20E-03	5.20E-03	1.87E-02	7.45E-04	3.47E-03	3.92E-03	2.04E-04	3.17E-04	5.20E-03	1.39E-02
6.74E-04	3.05E-03	3.72E-03	1.93E-04	4.74E-03	4.74E-03	1.71E-02	6.74E-04	3.05E-03	3.72E-03	1.93E-04	3.05E-04	4.74E-03	1.27E-02
6.04E-04	2.59E-03	3.43E-03	1.80E-04	4.18E-03	4.18E-03	1.52E-02	6.04E-04	2.59E-03	3.43E-03	1.80E-04	2.90E-04	4.18E-03	1.13E-02
5.19E-04	2.04E-03	2.95E-03	1.60E-04	3.45E-03	3.45E-03	1.26E-02	5.19E-04	2.04E-03	2.95E-03	1.60E-04	2.62E-04	3.45E-03	9.38E-03
4.83E-04	1.83E-03	2.79E-03	1.52E-04	3.18E-03	3.18E-03	1.16E-02	4.83E-04	1.83E-03	2.79E-03	1.52E-04	2.51E-04	3.18E-03	8.69E-03
4.44E-04	1.60E-03	2.57E-03	1.41E-04	2.86E-03	2.86E-03	1.05E-02	4.44E-04	1.60E-03	2.57E-03	1.41E-04	2.35E-04	2.86E-03	7.85E-03
4.28E-04	1.51E-03	2.51E-03	1.37E-04	2.75E-03	2.75E-03	1.01E-02	4.28E-04	1.51E-03	2.51E-03	1.37E-04	2.32E-04	2.75E-03	7.56E-03
3.94E-04	1.29E-03	2.25E-03	1.25E-04	2.42E-03	2.42E-03	8.90E-03	3.94E-04	1.29E-03	2.25E-03	1.25E-04	2.13E-04	2.42E-03	6.69E-03
3.94E-04	1.27E-03	2.29E-03	1.26E-04	2.44E-03	2.44E-03	8.96E-03	3.94E-04	1.27E-03	2.29E-03	1.26E-04	2.18E-04	2.44E-03	6.74E-03
4.09E-04	1.32E-03	2.42E-03	1.30E-04	2.58E-03	2.58E-03	9.43E-03	4.09E-04	1.32E-03	2.42E-03	1.30E-04	2.27E-04	2.58E-03	7.08E-03
4.22E-04	1.35E-03	2.45E-03	1.29E-04	2.64E-03	2.64E-03	9.63E-03	4.22E-04	1.35E-03	2.45E-03	1.29E-04	2.26E-04	2.64E-03	7.22E-03
8.99E-05	2.88E-04	4.57E-04	2.46E-05	3.08E-04	3.08E-04	1.48E-03	8.99E-05	2.88E-04	4.57E-04	2.46E-05	4.14E-05	3.08E-04	1.21E-03
9.23E-05	2.97E-04	4.87E-04	2.61E-05	3.26E-04	3.26E-04	1.56E-03	9.23E-05	2.97E-04	4.87E-04	2.61E-05	4.41E-05	3.26E-04	1.27E-03
9.39E-05	3.06E-04	5.14E-04	2.75E-05	3.41E-04	3.41E-04	1.62E-03	9.39E-05	3.06E-04	5.14E-04	2.75E-05	4.68E-05	3.41E-04	1.33E-03
9.68E-05	3.17E-04	5.55E-04	2.93E-05	3.70E-04	3.70E-04	1.74E-03	9.68E-05	3.17E-04	5.55E-04	2.93E-05	5.01E-05	3.70E-04	1.42E-03
9.92E-05	3.28E-04	5.95E-04	3.13E-05	4.01E-04	4.01E-04	1.86E-03	9.92E-05	3.28E-04	5.95E-04	3.13E-05	5.35E-05	4.01E-04	1.51E-03
1.02E-04	3.38E-04	6.30E-04	3.34E-05	4.25E-04	4.25E-04	1.95E-03	1.02E-04	3.38E-04	6.30E-04	3.34E-05	5.69E-05	4.25E-04	1.58E-03
9.88E-05	3.28E-04	5.92E-04	3.38E-05	3.89E-04	3.89E-04	1.83E-03	9.88E-05	3.28E-04	5.92E-04	3.38E-05	5.77E-05	3.89E-04	1.50E-03
9.31E-05	2.98E-04	5.00E-04	3.17E-05	3.30E-04	3.30E-04	1.58E-03	9.31E-05	2.98E-04	5.00E-04	3.17E-05	5.43E-05	3.30E-04	1.31E-03
8.06E-05	2.11E-04	2.99E-04	2.11E-05	2.15E-04	2.15E-04	1.04E-03	8.06E-05	2.11E-04	2.99E-04	2.11E-05	3.58E-05	2.15E-04	8.62E-04
6.84E-05	1.06E-04	1.58E-04	1.03E-05	1.39E-04	1.39E-04	6.21E-04	6.84E-05	1.06E-04	1.58E-04	1.03E-05	1.73E-05	1.39E-04	4.99E-04
6.07E-05	5.67E-05	1.01E-04	6.05E-06	1.07E-04	1.07E-04	4.38E-04	6.07E-05	5.67E-05	1.01E-04	6.05E-06	1.01E-05	1.07E-04	3.41E-04
6.40E-05	6.76E-05	1.16E-04	7.15E-06	1.21E-04	1.21E-04	4.96E-04	6.40E-05	6.76E-05	1.16E-04	7.15E-06	1.20E-05	1.21E-04	3.87E-04
6.64E-05	7.28E-05	1.24E-04	7.82E-06	1.29E-04	1.29E-04	5.30E-04	6.64E-05	7.28E-05	1.24E-04	7.82E-06	1.32E-05	1.29E-04	4.13E-04
7.69E-05	1.44E-04	2.21E-04	1.53E-05	1.89E-04	1.89E-04	8.36E-04	7.69E-05	1.44E-04	2.21E-04	1.53E-05	2.58E-05	1.89E-04	6.73E-04
9.03E-05	2.35E-04	4.00E-04	2.89E-05	3.00E-04	3.00E-04	1.35E-03	9.03E-05	2.35E-04	4.00E-04	2.89E-05	5.07E-05	3.00E-04	1.11E-03
1.07E-04	3.19E-04	6.88E-04	4.61E-05	4.72E-04	4.72E-04	2.10E-03	1.07E-04	3.19E-04	6.88E-04	4.61E-05	8.36E-05	4.72E-04	1.72E-03
1.25E-04	3.86E-04	1.07E-03	6.20E-05	6.87E-04	6.87E-04	3.01E-03	1.25E-04	3.86E-04	1.07E-03	6.20E-05	1.12E-04	6.87E-04	2.44E-03
1.38E-04	4.22E-04	1.35E-03	7.21E-05	8.89E-04	8.89E-04	3.76E-03	1.38E-04	4.22E-04	1.35E-03	7.21E-05	1.27E-04	8.89E-04	3.00E-03
1.49E-04	4.49E-04	1.58E-03	8.01E-05	1.11E-03	1.11E-03	4.49E-03	1.49E-04	4.49E-04	1.58E-03	8.01E-05	1.38E-04	1.11E-03	3.51E-03
1.58E-04	4.69E-04	1.74E-03	8.70E-05	1.30E-03	1.30E-03	5.05E-03	1.58E-04	4.69E-04	1.74E-03	8.70E-05	1.49E-04	1.30E-03	3.90E-03
1.65E-04	4.83E-04	1.91E-03	9.45E-05	1.46E-03	1.46E-03	5.58E-03	1.65E-04	4.83E-04	1.91E-03	9.45E-05	1.59E-04	1.46E-03	4.28E-03
1.73E-04	4.95E-04	2.07E-03	1.02E-04	1.63E-03	1.63E-03	6.11E-03	1.73E-04	4.95E-04	2.07E-03	1.02E-04	1.71E-04	1.63E-03	4.64E-03
1.82E-04	5.13E-04	2.25E-03	1.10E-04	1.83E-03	1.83E-03	6.71E-03	1.82E-04	5.13E-04	2.25E-03	1.10E-04	1.86E-04	1.83E-03	5.07E-03
1.90E-04	5.33E-04	2.44E-03	1.18E-04	2.07E-03	2.07E-03	7.42E-03	1.90E-04	5.33E-04	2.44E-03	1.18E-04	2.02E-04	2.07E-03	5.55E-03
2.00E-04	5.62E-04	2.62E-03	1.26E-04	2.36E-03	2.36E-03	8.22E-03	2.00E-04	5.62E-04	2.62E-03	1.26E-04	2.17E-04	2.36E-03	6.08E-03
2.15E-04	6.02E-04	2.71E-03	1.28E-04	2.90E-03	2.90E-03	9.46E-03	2.15E-04	6.02E-04	2.71E-03	1.28E-04	2.21E-04	2.90E-03	6.78E-03
2.27E-04	6.40E-04	2.85E-03	1.34E-04	3.34E-03	3.34E-03	1.05E-02	2.27E-04	6.40E-04	2.85E-03	1.34E-04	2.30E-04	3.34E-03	7.42E-03
2.42E-04	6.89E-04	3.03E-03	1.42E-04	3.92E-03	3.92E-03	1.19E-02	2.42E-04	6.89E-04	3.03E-03	1.42E-04	2.36E-04	3.92E-03	8.26E-03
2.63E-04	7.54E-04	3.19E-03	1.50E-04	4.74E-03	4.74E-03	1.38E-02	2.63E-04	7.54E-04	3.19E-03	1.50E-04	2.33E-04	4.74E-03	9.33E-03
2.90E-04	8.45E-04	3.32E-03	1.58E-04	6.00E-03	6.00E-03	1.66E-02	2.90E-04	8.45E-04	3.32E-03	1.58E-04	2.28E-04	6.00E-03	1.08E-02
3.24E-04	9.77E-04	3.44E-03	1.63E-04	7.72E-03	7.72E-03	2.04E-02	3.24E-04	9.77E-04	3.44E-03	1.63E-04	2.26E-04	7.72E-03	1.29E-02
3.64E-04	1.18E-03	3.57E-03	1.69E-04	1.02E-02	1.02E-02	2.58E-02	3.64E-04	1.18E-03	3.57E-03	1.69E-04	2.24E-04	1.02E-02	1.57E-02
4.08E-04	1.44E-03	3.59E-03	1.72E-04	1.50E-02	1.50E-02	3.56E-02	4.08E-04	1.44E-03	3.59E-03	1.72E-04	2.27E-04	1.50E-02	2.08E-02
4.67E-04	1.89E-03	3.73E-03	1.82E-04	6.22E-02	6.22E-02	1.31E-01	4.67E-04	1.89E-03	3.73E-03	1.82E-04	2.40E-04	6.22E-02	6.87E-02
5.39E-04	2.57E-03	3.80E-03	1.84E-04	7.70E-02	7.70E-02	1.61E-01	5.39E-04	2.57E-03	3.80E-03	1.84E-04	2.53E-04	7.70E-02	8.43E-02

6.74E-04	3.78E-03	3.96E-03	1.89E-04	3.37E-02	3.37E-02	7.60E-02	6.74E-04	3.78E-03	3.96E-03	1.89E-04	2.74E-04	3.37E-02	4.26E-02
9.19E-04	5.76E-03	4.00E-03	1.95E-04	2.44E-02	2.44E-02	5.97E-02	9.19E-04	5.76E-03	4.00E-03	1.95E-04	2.70E-04	2.44E-02	3.56E-02
1.46E-03	9.66E-03	3.81E-03	1.96E-04	1.91E-02	1.91E-02	5.33E-02	1.46E-03	9.66E-03	3.81E-03	1.96E-04	2.76E-04	1.91E-02	3.45E-02
3.28E-03	1.88E-02	3.73E-03	1.84E-04	1.55E-02	1.55E-02	5.71E-02	3.28E-03	1.88E-02	3.73E-03	1.84E-04	2.59E-04	1.55E-02	4.18E-02
2.64E-02	9.29E-02	3.92E-03	1.85E-04	1.24E-02	1.24E-02	1.48E-01	2.64E-02	9.29E-02	3.92E-03	1.85E-04	2.50E-04	1.24E-02	1.36E-01
4.85E-03	2.98E-02	3.95E-03	1.85E-04	1.04E-02	1.04E-02	5.97E-02	4.85E-03	2.98E-02	3.95E-03	1.85E-04	2.50E-04	1.04E-02	4.95E-02
2.45E-03	1.55E-02	3.89E-03	1.85E-04	8.84E-03	8.84E-03	3.97E-02	2.45E-03	1.55E-02	3.89E-03	1.85E-04	2.61E-04	8.84E-03	3.11E-02
1.66E-03	1.04E-02	3.77E-03	1.83E-04	7.63E-03	7.63E-03	3.12E-02	1.66E-03	1.04E-02	3.77E-03	1.83E-04	2.74E-04	7.63E-03	2.39E-02
1.22E-03	7.19E-03	3.60E-03	1.79E-04	6.47E-03	6.47E-03	2.51E-02	1.22E-03	7.19E-03	3.60E-03	1.79E-04	2.79E-04	6.47E-03	1.89E-02
1.00E-03	5.54E-03	3.43E-03	1.73E-04	5.69E-03	5.69E-03	2.15E-02	1.00E-03	5.54E-03	3.43E-03	1.73E-04	2.74E-04	5.69E-03	1.61E-02
8.61E-04	4.40E-03	3.27E-03	1.66E-04	5.06E-03	5.06E-03	1.88E-02	8.61E-04	4.40E-03	3.27E-03	1.66E-04	2.65E-04	5.06E-03	1.40E-02
7.41E-04	3.46E-03	3.08E-03	1.58E-04	4.43E-03	4.43E-03	1.63E-02	7.41E-04	3.46E-03	3.08E-03	1.58E-04	2.53E-04	4.43E-03	1.21E-02
6.76E-04	2.94E-03	2.96E-03	1.51E-04	4.06E-03	4.06E-03	1.48E-02	6.76E-04	2.94E-03	2.96E-03	1.51E-04	2.44E-04	4.06E-03	1.10E-02
6.12E-04	2.47E-03	2.80E-03	1.44E-04	3.65E-03	3.65E-03	1.33E-02	6.12E-04	2.47E-03	2.80E-03	1.44E-04	2.35E-04	3.65E-03	9.91E-03
5.57E-04	2.09E-03	2.64E-03	1.37E-04	3.28E-03	3.28E-03	1.20E-02	5.57E-04	2.09E-03	2.64E-03	1.37E-04	2.27E-04	3.28E-03	8.92E-03
4.94E-04	1.70E-03	2.39E-03	1.27E-04	2.83E-03	2.83E-03	1.04E-02	4.94E-04	1.70E-03	2.39E-03	1.27E-04	2.13E-04	2.83E-03	7.75E-03
4.11E-04	1.22E-03	1.85E-03	1.03E-04	2.10E-03	2.10E-03	7.79E-03	4.11E-04	1.22E-03	1.85E-03	1.03E-04	1.73E-04	2.10E-03	5.86E-03
4.35E-04	1.35E-03	2.15E-03	1.15E-04	2.40E-03	2.40E-03	8.86E-03	4.35E-04	1.35E-03	2.15E-03	1.15E-04	1.95E-04	2.40E-03	6.65E-03
4.70E-04	1.47E-03	2.31E-03	1.19E-04	2.64E-03	2.64E-03	9.66E-03	4.70E-04	1.47E-03	2.31E-03	1.19E-04	2.02E-04	2.64E-03	7.22E-03
4.87E-04	1.47E-03	2.29E-03	1.15E-04	2.68E-03	2.68E-03	9.72E-03	4.87E-04	1.47E-03	2.29E-03	1.15E-04	2.00E-04	2.68E-03	7.24E-03
8.79E-05	2.76E-04	4.66E-04	2.47E-05	3.21E-04	3.21E-04	1.50E-03	8.79E-05	2.76E-04	4.66E-04	2.47E-05	4.24E-05	3.21E-04	1.22E-03
8.95E-05	2.84E-04	4.93E-04	2.61E-05	3.40E-04	3.40E-04	1.57E-03	8.95E-05	2.84E-04	4.93E-04	2.61E-05	4.48E-05	3.40E-04	1.28E-03
9.19E-05	2.94E-04	5.25E-04	2.77E-05	3.64E-04	3.64E-04	1.67E-03	9.19E-05	2.94E-04	5.25E-04	2.77E-05	4.76E-05	3.64E-04	1.35E-03
9.43E-05	3.04E-04	5.59E-04	2.95E-05	3.94E-04	3.94E-04	1.77E-03	9.43E-05	3.04E-04	5.59E-04	2.95E-05	5.06E-05	3.94E-04	1.43E-03
9.68E-05	3.13E-04	5.92E-04	3.14E-05	4.21E-04	4.21E-04	1.87E-03	9.68E-05	3.13E-04	5.92E-04	3.14E-05	5.41E-05	4.21E-04	1.51E-03
9.84E-05	3.20E-04	6.20E-04	3.32E-05	4.41E-04	4.41E-04	1.95E-03	9.84E-05	3.20E-04	6.20E-04	3.32E-05	5.81E-05	4.41E-04	1.57E-03
9.88E-05	3.23E-04	6.30E-04	3.46E-05	4.38E-04	4.38E-04	1.96E-03	9.88E-05	3.23E-04	6.30E-04	3.46E-05	6.23E-05	4.38E-04	1.59E-03
9.76E-05	3.17E-04	6.12E-04	3.50E-05	4.24E-04	4.24E-04	1.91E-03	9.76E-05	3.17E-04	6.12E-04	3.50E-05	6.52E-05	4.24E-04	1.55E-03
9.27E-05	2.93E-04	5.36E-04	3.30E-05	3.71E-04	3.71E-04	1.70E-03	9.27E-05	2.93E-04	5.36E-04	3.30E-05	6.20E-05	3.71E-04	1.39E-03
8.79E-05	2.59E-04	4.37E-04	2.90E-05	3.08E-04	3.08E-04	1.43E-03	8.79E-05	2.59E-04	4.37E-04	2.90E-05	5.36E-05	3.08E-04	1.17E-03
8.10E-05	2.14E-04	3.34E-04	2.33E-05	2.46E-04	2.46E-04	1.14E-03	8.10E-05	2.14E-04	3.34E-04	2.33E-05	4.16E-05	2.46E-04	9.40E-04
7.89E-05	1.94E-04	2.98E-04	2.12E-05	2.28E-04	2.28E-04	1.05E-03	7.89E-05	1.94E-04	2.98E-04	2.12E-05	3.69E-05	2.28E-04	8.57E-04
7.00E-05	1.19E-04	1.81E-04	1.23E-05	1.65E-04	1.65E-04	7.11E-04	7.00E-05	1.19E-04	1.81E-04	1.23E-05	2.11E-05	1.65E-04	5.67E-04
7.53E-05	1.50E-04	2.29E-04	1.62E-05	1.96E-04	1.96E-04	8.63E-04	7.53E-05	1.50E-04	2.29E-04	1.62E-05	2.80E-05	1.96E-04	6.95E-04
8.95E-05	2.46E-04	4.47E-04	3.16E-05	3.25E-04	3.25E-04	1.46E-03	8.95E-05	2.46E-04	4.47E-04	3.16E-05	5.58E-05	3.25E-04	1.19E-03
1.04E-04	3.10E-04	7.04E-04	4.53E-05	4.62E-04	4.62E-04	2.09E-03	1.04E-04	3.10E-04	7.04E-04	4.53E-05	8.05E-05	4.62E-04	1.71E-03
1.19E-04	3.65E-04	1.02E-03	5.81E-05	6.52E-04	6.52E-04	2.87E-03	1.19E-04	3.65E-04	1.02E-03	5.81E-05	1.02E-04	6.52E-04	2.32E-03
1.32E-04	4.03E-04	1.29E-03	6.70E-05	8.78E-04	8.78E-04	3.64E-03	1.32E-04	4.03E-04	1.29E-03	6.70E-05	1.15E-04	8.78E-04	2.88E-03
1.42E-04	4.27E-04	1.46E-03	7.29E-05	1.08E-03	1.08E-03	4.26E-03	1.42E-04	4.27E-04	1.46E-03	7.29E-05	1.22E-04	1.08E-03	3.30E-03
1.51E-04	4.45E-04	1.58E-03	7.84E-05	1.24E-03	1.24E-03	4.74E-03	1.51E-04	4.45E-04	1.58E-03	7.84E-05	1.29E-04	1.24E-03	3.63E-03
1.56E-04	4.55E-04	1.70E-03	8.43E-05	1.38E-03	1.38E-03	5.16E-03	1.56E-04	4.55E-04	1.70E-03	8.43E-05	1.37E-04	1.38E-03	3.92E-03
1.65E-04	4.70E-04	1.83E-03	8.99E-05	1.55E-03	1.55E-03	5.66E-03	1.65E-04	4.70E-04	1.83E-03	8.99E-05	1.50E-04	1.55E-03	4.26E-03
1.72E-04	4.86E-04	1.96E-03	9.56E-05	1.71E-03	1.71E-03	6.14E-03	1.72E-04	4.86E-04	1.96E-03	9.56E-05	1.63E-04	1.71E-03	4.59E-03
1.79E-04	5.03E-04	2.08E-03	1.02E-04	1.88E-03	1.88E-03	6.63E-03	1.79E-04	5.03E-04	2.08E-03	1.02E-04	1.74E-04	1.88E-03	4.93E-03
1.89E-04	5.32E-04	2.21E-03	1.08E-04	2.17E-03	2.17E-03	7.37E-03	1.89E-04	5.32E-04	2.21E-03	1.08E-04	1.85E-04	2.17E-03	5.39E-03
1.98E-04	5.69E-04	2.32E-03	1.14E-04	2.42E-03	2.42E-03	8.04E-03	1.98E-04	5.69E-04	2.32E-03	1.14E-04	1.96E-04	2.42E-03	5.82E-03
2.09E-04	6.11E-04	2.35E-03	1.14E-04	2.82E-03	2.82E-03	8.93E-03	2.09E-04	6.11E-04	2.35E-03	1.14E-04	1.93E-04	2.82E-03	6.30E-03
2.19E-04	6.61E-04	2.45E-03	1.19E-04	3.24E-03	3.24E-03	9.93E-03	2.19E-04	6.61E-04	2.45E-03	1.19E-04	1.94E-04	3.24E-03	6.88E-03
2.32E-04	7.24E-04	2.54E-03	1.23E-04	3.77E-03	3.77E-03	1.12E-02	2.32E-04	7.24E-04	2.54E-03	1.23E-04	1.87E-04	3.77E-03	7.58E-03
2.50E-04	8.13E-04	2.62E-03	1.27E-04	4.53E-03	4.53E-03	1.29E-02	2.50E-04	8.13E-04	2.62E-03	1.27E-04	1.85E-04	4.53E-03	8.52E-03
2.72E-04	9.27E-04	2.64E-03	1.29E-04	5.47E-03	5.47E-03	1.49E-02	2.72E-04	9.27E-04	2.64E-03	1.29E-04	1.81E-04	5.47E-03	9.63E-03
2.98E-04	1.07E-03	2.66E-03	1.30E-04	6.88E-03	6.88E-03	1.79E-02	2.98E-04	1.07E-03	2.66E-03	1.30E-04	1.79E-04	6.88E-03	1.12E-02
3.28E-04	1.25E-03	2.67E-03	1.31E-04	1.06E-02	1.06E-02	2.55E-02	3.28E-04	1.25E-03	2.67E-03	1.31E-04	1.81E-04	1.06E-02	1.51E-02
3.70E-04	1.56E-03	2.72E-03	1.35E-04	5.25E-02	5.25E-02	1.10E-01	3.70E-04	1.56E-03	2.72E-03	1.35E-04	1.88E-04	5.25E-02	5.75E-02

4.19E-04	1.97E-03	2.78E-03	1.36E-04	7.47E-02	7.47E-02	1.55E-01	4.19E-04	1.97E-03	2.78E-03	1.36E-04	1.97E-04	7.47E-02	8.02E-02
4.85E-04	2.51E-03	2.85E-03	1.37E-04	8.16E-02	8.16E-02	1.69E-01	4.85E-04	2.51E-03	2.85E-03	1.37E-04	2.08E-04	8.16E-02	8.78E-02
5.73E-04	3.22E-03	2.93E-03	1.40E-04	3.67E-02	3.67E-02	8.03E-02	5.73E-04	3.22E-03	2.93E-03	1.40E-04	2.07E-04	3.67E-02	4.38E-02
6.92E-04	4.26E-03	2.97E-03	1.44E-04	1.92E-02	1.92E-02	4.65E-02	6.92E-04	4.26E-03	2.97E-03	1.44E-04	2.10E-04	1.92E-02	2.75E-02
8.89E-04	5.69E-03	2.82E-03	1.43E-04	1.37E-02	1.37E-02	3.69E-02	8.89E-04	5.69E-03	2.82E-03	1.43E-04	2.17E-04	1.37E-02	2.34E-02
1.35E-03	8.40E-03	2.70E-03	1.36E-04	1.08E-02	1.08E-02	3.41E-02	1.35E-03	8.40E-03	2.70E-03	1.36E-04	2.07E-04	1.08E-02	2.36E-02
4.05E-03	1.86E-02	2.72E-03	1.30E-04	8.87E-03	8.87E-03	4.33E-02	4.05E-03	1.86E-02	2.72E-03	1.30E-04	1.93E-04	8.87E-03	3.46E-02
7.14E-03	3.74E-02	2.83E-03	1.31E-04	7.61E-03	7.61E-03	6.27E-02	7.14E-03	3.74E-02	2.83E-03	1.31E-04	1.92E-04	7.61E-03	5.53E-02
2.84E-03	1.58E-02	2.91E-03	1.36E-04	6.69E-03	6.69E-03	3.50E-02	2.84E-03	1.58E-02	2.91E-03	1.36E-04	1.99E-04	6.69E-03	2.85E-02
1.90E-03	9.29E-03	2.88E-03	1.36E-04	5.95E-03	5.95E-03	2.61E-02	1.90E-03	9.29E-03	2.88E-03	1.36E-04	2.08E-04	5.95E-03	2.04E-02
1.37E-03	6.28E-03	2.85E-03	1.38E-04	5.30E-03	5.30E-03	2.12E-02	1.37E-03	6.28E-03	2.85E-03	1.38E-04	2.20E-04	5.30E-03	1.62E-02
1.17E-03	4.87E-03	2.76E-03	1.35E-04	4.85E-03	4.85E-03	1.86E-02	1.17E-03	4.87E-03	2.76E-03	1.35E-04	2.21E-04	4.85E-03	1.40E-02
9.80E-04	3.85E-03	2.67E-03	1.33E-04	4.38E-03	4.38E-03	1.64E-02	9.80E-04	3.85E-03	2.67E-03	1.33E-04	2.19E-04	4.38E-03	1.22E-02
9.01E-04	3.25E-03	2.57E-03	1.28E-04	4.06E-03	4.06E-03	1.50E-02	9.01E-04	3.25E-03	2.57E-03	1.28E-04	2.11E-04	4.06E-03	1.11E-02
7.96E-04	2.73E-03	2.49E-03	1.24E-04	3.70E-03	3.70E-03	1.35E-02	7.96E-04	2.73E-03	2.49E-03	1.24E-04	2.06E-04	3.70E-03	1.00E-02
6.74E-04	2.18E-03	2.35E-03	1.20E-04	3.23E-03	3.23E-03	1.18E-02	6.74E-04	2.18E-03	2.35E-03	1.20E-04	1.99E-04	3.23E-03	8.76E-03
5.88E-04	1.76E-03	2.19E-03	1.14E-04	2.80E-03	2.80E-03	1.02E-02	5.88E-04	1.76E-03	2.19E-03	1.14E-04	1.91E-04	2.80E-03	7.64E-03
5.33E-04	1.48E-03	2.03E-03	1.08E-04	2.47E-03	2.47E-03	9.10E-03	5.33E-04	1.48E-03	2.03E-03	1.08E-04	1.82E-04	2.47E-03	6.81E-03
4.76E-04	1.23E-03	1.82E-03	9.89E-05	2.14E-03	2.14E-03	7.90E-03	4.76E-04	1.23E-03	1.82E-03	9.89E-05	1.69E-04	2.14E-03	5.94E-03
5.04E-04	1.35E-03	1.99E-03	1.04E-04	2.35E-03	2.35E-03	8.65E-03	5.04E-04	1.35E-03	1.99E-03	1.04E-04	1.76E-04	2.35E-03	6.47E-03
5.36E-04	1.39E-03	2.03E-03	1.02E-04	2.46E-03	2.46E-03	8.97E-03	5.36E-04	1.39E-03	2.03E-03	1.02E-04	1.75E-04	2.46E-03	6.69E-03
8.62E-05	2.68E-04	4.71E-04	2.48E-05	3.38E-04	3.38E-04	1.53E-03	8.62E-05	2.68E-04	4.71E-04	2.48E-05	4.29E-05	3.38E-04	1.23E-03
8.79E-05	2.76E-04	4.97E-04	2.62E-05	3.59E-04	3.59E-04	1.61E-03	8.79E-05	2.76E-04	4.97E-04	2.62E-05	4.53E-05	3.59E-04	1.29E-03
8.99E-05	2.84E-04	5.23E-04	2.77E-05	3.80E-04	3.80E-04	1.68E-03	8.99E-05	2.84E-04	5.23E-04	2.77E-05	4.82E-05	3.80E-04	1.35E-03
9.19E-05	2.93E-04	5.52E-04	2.93E-05	4.06E-04	4.06E-04	1.78E-03	9.19E-05	2.93E-04	5.52E-04	2.93E-05	5.17E-05	4.06E-04	1.42E-03
9.39E-05	3.00E-04	5.79E-04	3.08E-05	4.27E-04	4.27E-04	1.86E-03	9.39E-05	3.00E-04	5.79E-04	3.08E-05	5.56E-05	4.27E-04	1.49E-03
9.55E-05	3.08E-04	6.06E-04	3.22E-05	4.46E-04	4.46E-04	1.93E-03	9.55E-05	3.08E-04	6.06E-04	3.22E-05	5.96E-05	4.46E-04	1.55E-03
9.72E-05	3.14E-04	6.31E-04	3.36E-05	4.62E-04	4.62E-04	2.00E-03	9.72E-05	3.14E-04	6.31E-04	3.36E-05	6.33E-05	4.62E-04	1.60E-03
9.88E-05	3.20E-04	6.60E-04	3.52E-05	4.84E-04	4.84E-04	2.08E-03	9.88E-05	3.20E-04	6.60E-04	3.52E-05	6.64E-05	4.84E-04	1.67E-03
9.84E-05	3.20E-04	6.65E-04	3.63E-05	4.77E-04	4.77E-04	2.07E-03	9.84E-05	3.20E-04	6.65E-04	3.63E-05	6.80E-05	4.77E-04	1.66E-03
9.68E-05	3.11E-04	6.37E-04	3.64E-05	4.44E-04	4.44E-04	1.97E-03	9.68E-05	3.11E-04	6.37E-04	3.64E-05	6.73E-05	4.44E-04	1.59E-03
9.27E-05	2.89E-04	5.69E-04	3.49E-05	3.91E-04	3.91E-04	1.77E-03	9.27E-05	2.89E-04	5.69E-04	3.49E-05	6.32E-05	3.91E-04	1.44E-03
9.11E-05	2.78E-04	5.44E-04	3.46E-05	3.72E-04	3.72E-04	1.69E-03	9.11E-05	2.78E-04	5.44E-04	3.46E-05	6.20E-05	3.72E-04	1.38E-03
9.23E-05	2.80E-04	5.63E-04	3.61E-05	3.81E-04	3.81E-04	1.73E-03	9.23E-05	2.80E-04	5.63E-04	3.61E-05	6.46E-05	3.81E-04	1.42E-03
8.83E-05	2.52E-04	4.78E-04	3.24E-05	3.31E-04	3.31E-04	1.51E-03	8.83E-05	2.52E-04	4.78E-04	3.24E-05	5.77E-05	3.31E-04	1.24E-03
7.69E-05	1.69E-04	2.74E-04	1.96E-05	2.24E-04	2.24E-04	9.88E-04	7.69E-05	1.69E-04	2.74E-04	1.96E-05	3.43E-05	2.24E-04	7.98E-04
9.80E-05	2.88E-04	6.53E-04	4.18E-05	4.30E-04	4.30E-04	1.94E-03	9.80E-05	2.88E-04	6.53E-04	4.18E-05	7.40E-05	4.30E-04	1.59E-03
1.14E-04	3.48E-04	9.79E-04	5.44E-05	6.38E-04	6.38E-04	2.77E-03	1.14E-04	3.48E-04	9.79E-04	5.44E-05	9.26E-05	6.38E-04	2.23E-03
1.26E-04	3.84E-04	1.20E-03	6.15E-05	8.49E-04	8.49E-04	3.46E-03	1.26E-04	3.84E-04	1.20E-03	6.15E-05	1.01E-04	8.49E-04	2.72E-03
1.35E-04	4.07E-04	1.32E-03	6.63E-05	1.04E-03	1.04E-03	4.01E-03	1.35E-04	4.07E-04	1.32E-03	6.63E-05	1.07E-04	1.04E-03	3.08E-03
1.41E-04	4.20E-04	1.42E-03	7.09E-05	1.17E-03	1.17E-03	4.39E-03	1.41E-04	4.20E-04	1.42E-03	7.09E-05	1.15E-04	1.17E-03	3.33E-03
1.47E-04	4.31E-04	1.52E-03	7.53E-05	1.32E-03	1.32E-03	4.80E-03	1.47E-04	4.31E-04	1.52E-03	7.53E-05	1.24E-04	1.32E-03	3.61E-03
1.54E-04	4.45E-04	1.61E-03	7.96E-05	1.44E-03	1.44E-03	5.16E-03	1.54E-04	4.45E-04	1.61E-03	7.96E-05	1.35E-04	1.44E-03	3.86E-03
1.60E-04	4.62E-04	1.70E-03	8.39E-05	1.60E-03	1.60E-03	5.62E-03	1.60E-04	4.62E-04	1.70E-03	8.39E-05	1.43E-04	1.60E-03	4.16E-03
1.66E-04	4.82E-04	1.79E-03	8.91E-05	1.75E-03	1.75E-03	6.04E-03	1.66E-04	4.82E-04	1.79E-03	8.91E-05	1.51E-04	1.75E-03	4.43E-03
1.74E-04	5.09E-04	1.88E-03	9.38E-05	1.92E-03	1.92E-03	6.48E-03	1.74E-04	5.09E-04	1.88E-03	9.38E-05	1.61E-04	1.92E-03	4.73E-03
1.82E-04	5.46E-04	1.95E-03	9.81E-05	2.11E-03	2.11E-03	7.00E-03	1.82E-04	5.46E-04	1.95E-03	9.81E-05	1.67E-04	2.11E-03	5.05E-03
1.92E-04	5.91E-04	2.01E-03	1.00E-04	2.40E-03	2.40E-03	7.69E-03	1.92E-04	5.91E-04	2.01E-03	1.00E-04	1.67E-04	2.40E-03	5.46E-03
2.00E-04	6.34E-04	2.03E-03	1.00E-04	2.71E-03	2.71E-03	8.38E-03	2.00E-04	6.34E-04	2.03E-03	1.00E-04	1.61E-04	2.71E-03	5.83E-03
2.10E-04	6.95E-04	2.09E-03	1.03E-04	3.08E-03	3.08E-03	9.25E-03	2.10E-04	6.95E-04	2.09E-03	1.03E-04	1.56E-04	3.08E-03	6.33E-03
2.24E-04	7.68E-04	2.15E-03	1.06E-04	3.54E-03	3.54E-03	1.03E-02	2.24E-04	7.68E-04	2.15E-03	1.06E-04	1.55E-04	3.54E-03	6.94E-03
2.40E-04	8.44E-04	2.12E-03	1.06E-04	4.07E-03	4.07E-03	1.14E-02	2.40E-04	8.44E-04	2.12E-03	1.06E-04	1.50E-04	4.07E-03	7.53E-03
2.58E-04	9.51E-04	2.10E-03	1.06E-04	4.87E-03	4.87E-03	1.32E-02	2.58E-04	9.51E-04	2.10E-03	1.06E-04	1.48E-04	4.87E-03	8.44E-03
2.78E-04	1.09E-03	2.10E-03	1.05E-04	6.25E-03	6.25E-03	1.61E-02	2.78E-04	1.09E-03	2.10E-03	1.05E-04	1.50E-04	6.25E-03	9.98E-03

3.02E-04	1.28E-03	2.10E-03	1.05E-04	7.90E-03	7.90E-03	1.96E-02	3.02E-04	1.28E-03	2.10E-03	1.05E-04	1.51E-04	7.90E-03	1.18E-02
3.34E-04	1.56E-03	2.19E-03	1.08E-04	9.87E-03	9.87E-03	2.39E-02	3.34E-04	1.56E-03	2.19E-03	1.08E-04	1.56E-04	9.87E-03	1.42E-02
3.67E-04	1.81E-03	2.19E-03	1.06E-04	1.05E-02	1.05E-02	2.54E-02	3.67E-04	1.81E-03	2.19E-03	1.06E-04	1.59E-04	1.05E-02	1.51E-02
4.13E-04	2.18E-03	2.27E-03	1.10E-04	1.04E-02	1.04E-02	2.58E-02	4.13E-04	2.18E-03	2.27E-03	1.10E-04	1.66E-04	1.04E-02	1.56E-02
4.76E-04	2.48E-03	2.27E-03	1.09E-04	9.30E-03	9.30E-03	2.39E-02	4.76E-04	2.48E-03	2.27E-03	1.09E-04	1.65E-04	9.30E-03	1.48E-02
5.73E-04	3.00E-03	2.30E-03	1.11E-04	8.20E-03	8.20E-03	2.24E-02	5.73E-04	3.00E-03	2.30E-03	1.11E-04	1.68E-04	8.20E-03	1.44E-02
7.37E-04	3.68E-03	2.21E-03	1.12E-04	7.21E-03	7.21E-03	2.12E-02	7.37E-04	3.68E-03	2.21E-03	1.12E-04	1.76E-04	7.21E-03	1.41E-02
1.06E-03	4.42E-03	2.10E-03	1.07E-04	6.41E-03	6.41E-03	2.05E-02	1.06E-03	4.42E-03	2.10E-03	1.07E-04	1.70E-04	6.41E-03	1.43E-02
2.31E-03	4.80E-03	2.09E-03	1.03E-04	5.77E-03	5.77E-03	2.09E-02	2.31E-03	4.80E-03	2.09E-03	1.03E-04	1.60E-04	5.77E-03	1.52E-02
1.25E-02	4.65E-03	2.11E-03	9.96E-05	5.13E-03	5.13E-03	2.96E-02	1.25E-02	4.65E-03	2.11E-03	9.96E-05	1.54E-04	5.13E-03	2.47E-02
3.67E-03	4.51E-03	2.19E-03	1.02E-04	4.70E-03	4.70E-03	1.99E-02	3.67E-03	4.51E-03	2.19E-03	1.02E-04	1.56E-04	4.70E-03	1.53E-02
2.32E-03	4.01E-03	2.26E-03	1.05E-04	4.38E-03	4.38E-03	1.75E-02	2.32E-03	4.01E-03	2.26E-03	1.05E-04	1.63E-04	4.38E-03	1.32E-02
1.81E-03	3.40E-03	2.25E-03	1.06E-04	4.05E-03	4.05E-03	1.57E-02	1.81E-03	3.40E-03	2.25E-03	1.06E-04	1.70E-04	4.05E-03	1.18E-02
1.52E-03	2.94E-03	2.21E-03	1.07E-04	3.77E-03	3.77E-03	1.43E-02	1.52E-03	2.94E-03	2.21E-03	1.07E-04	1.77E-04	3.77E-03	1.07E-02
1.30E-03	2.58E-03	2.17E-03	1.06E-04	3.53E-03	3.53E-03	1.32E-02	1.30E-03	2.58E-03	2.17E-03	1.06E-04	1.80E-04	3.53E-03	9.86E-03
1.14E-03	2.29E-03	2.12E-03	1.05E-04	3.30E-03	3.30E-03	1.23E-02	1.14E-03	2.29E-03	2.12E-03	1.05E-04	1.78E-04	3.30E-03	9.13E-03
1.03E-03	2.05E-03	2.06E-03	1.02E-04	3.10E-03	3.10E-03	1.14E-02	1.03E-03	2.05E-03	2.06E-03	1.02E-04	1.73E-04	3.10E-03	8.50E-03
8.79E-04	1.85E-03	2.01E-03	1.00E-04	2.89E-03	2.89E-03	1.06E-02	8.79E-04	1.85E-03	2.01E-03	1.00E-04	1.70E-04	2.89E-03	7.91E-03
7.17E-04	1.57E-03	1.92E-03	9.76E-05	2.57E-03	2.57E-03	9.44E-03	7.17E-04	1.57E-03	1.92E-03	9.76E-05	1.66E-04	2.57E-03	7.04E-03
6.72E-04	1.45E-03	1.86E-03	9.48E-05	2.43E-03	2.43E-03	8.95E-03	6.72E-04	1.45E-03	1.86E-03	9.48E-05	1.62E-04	2.43E-03	6.68E-03
6.16E-04	1.31E-03	1.80E-03	9.21E-05	2.27E-03	2.27E-03	8.35E-03	6.16E-04	1.31E-03	1.80E-03	9.21E-05	1.57E-04	2.27E-03	6.24E-03
6.22E-04	1.29E-03	1.78E-03	8.95E-05	2.26E-03	2.26E-03	8.30E-03	6.22E-04	1.29E-03	1.78E-03	8.95E-05	1.55E-04	2.26E-03	6.20E-03
8.46E-05	2.61E-04	4.70E-04	2.47E-05	3.52E-04	3.52E-04	1.54E-03	8.46E-05	2.61E-04	4.70E-04	2.47E-05	4.33E-05	3.52E-04	1.24E-03
8.62E-05	2.68E-04	4.91E-04	2.60E-05	3.70E-04	3.70E-04	1.61E-03	8.62E-05	2.68E-04	4.91E-04	2.60E-05	4.61E-05	3.70E-04	1.29E-03
8.79E-05	2.75E-04	5.14E-04	2.73E-05	3.89E-04	3.89E-04	1.68E-03	8.79E-05	2.75E-04	5.14E-04	2.73E-05	4.92E-05	3.89E-04	1.34E-03
8.99E-05	2.83E-04	5.40E-04	2.86E-05	4.12E-04	4.12E-04	1.77E-03	8.99E-05	2.83E-04	5.40E-04	2.86E-05	5.25E-05	4.12E-04	1.41E-03
9.15E-05	2.90E-04	5.65E-04	2.98E-05	4.33E-04	4.33E-04	1.84E-03	9.15E-05	2.90E-04	5.65E-04	2.98E-05	5.55E-05	4.33E-04	1.46E-03
9.31E-05	2.96E-04	5.89E-04	3.10E-05	4.49E-04	4.49E-04	1.91E-03	9.31E-05	2.96E-04	5.89E-04	3.10E-05	5.81E-05	4.49E-04	1.52E-03
9.47E-05	3.04E-04	6.21E-04	3.25E-05	4.77E-04	4.77E-04	2.01E-03	9.47E-05	3.04E-04	6.21E-04	3.25E-05	6.02E-05	4.77E-04	1.59E-03
9.64E-05	3.10E-04	6.45E-04	3.40E-05	4.89E-04	4.89E-04	2.06E-03	9.64E-05	3.10E-04	6.45E-04	3.40E-05	6.19E-05	4.89E-04	1.64E-03
9.84E-05	3.17E-04	6.80E-04	3.57E-05	5.18E-04	5.18E-04	2.17E-03	9.84E-05	3.17E-04	6.80E-04	3.57E-05	6.39E-05	5.18E-04	1.71E-03
9.96E-05	3.20E-04	7.01E-04	3.72E-05	5.21E-04	5.21E-04	2.20E-03	9.96E-05	3.20E-04	7.01E-04	3.72E-05	6.60E-05	5.21E-04	1.74E-03
9.92E-05	3.17E-04	7.06E-04	3.83E-05	5.06E-04	5.06E-04	2.17E-03	9.92E-05	3.17E-04	7.06E-04	3.83E-05	6.80E-05	5.06E-04	1.73E-03
9.88E-05	3.14E-04	7.14E-04	3.93E-05	4.97E-04	4.97E-04	2.16E-03	9.88E-05	3.14E-04	7.14E-04	3.93E-05	7.00E-05	4.97E-04	1.73E-03
9.92E-05	3.13E-04	7.25E-04	4.04E-05	4.97E-04	4.97E-04	2.17E-03	9.92E-05	3.13E-04	7.25E-04	4.04E-05	7.21E-05	4.97E-04	1.75E-03
9.27E-05	2.78E-04	6.03E-04	3.70E-05	4.07E-04	4.07E-04	1.83E-03	9.27E-05	2.78E-04	6.03E-04	3.70E-05	6.63E-05	4.07E-04	1.49E-03
7.81E-05	1.94E-04	3.41E-04	2.41E-05	2.58E-04	2.58E-04	1.15E-03	7.81E-05	1.94E-04	3.41E-04	2.41E-05	4.21E-05	2.58E-04	9.37E-04
8.42E-05	2.23E-04	4.41E-04	3.04E-05	3.13E-04	3.13E-04	1.41E-03	8.42E-05	2.23E-04	4.41E-04	3.04E-05	5.14E-05	3.13E-04	1.14E-03
1.07E-04	3.22E-04	8.79E-04	4.92E-05	5.96E-04	5.96E-04	2.55E-03	1.07E-04	3.22E-04	8.79E-04	4.92E-05	8.08E-05	5.96E-04	2.03E-03
1.19E-04	3.63E-04	1.08E-03	5.62E-05	8.11E-04	8.11E-04	3.24E-03	1.19E-04	3.63E-04	1.08E-03	5.62E-05	9.09E-05	8.11E-04	2.52E-03
1.28E-04	3.89E-04	1.20E-03	6.05E-05	1.01E-03	1.01E-03	3.79E-03	1.28E-04	3.89E-04	1.20E-03	6.05E-05	9.77E-05	1.01E-03	2.88E-03
1.34E-04	4.01E-04	1.27E-03	6.39E-05	1.13E-03	1.13E-03	4.14E-03	1.34E-04	4.01E-04	1.27E-03	6.39E-05	1.05E-04	1.13E-03	3.11E-03
1.39E-04	4.13E-04	1.34E-03	6.72E-05	1.25E-03	1.25E-03	4.47E-03	1.39E-04	4.13E-04	1.34E-03	6.72E-05	1.13E-04	1.25E-03	3.33E-03
1.45E-04	4.28E-04	1.41E-03	7.06E-05	1.35E-03	1.35E-03	4.77E-03	1.45E-04	4.28E-04	1.41E-03	7.06E-05	1.21E-04	1.35E-03	3.53E-03
1.50E-04	4.45E-04	1.48E-03	7.44E-05	1.46E-03	1.46E-03	5.07E-03	1.50E-04	4.45E-04	1.48E-03	7.44E-05	1.27E-04	1.46E-03	3.74E-03
1.55E-04	4.64E-04	1.55E-03	7.84E-05	1.57E-03	1.57E-03	5.40E-03	1.55E-04	4.64E-04	1.55E-03	7.84E-05	1.33E-04	1.57E-03	3.96E-03
1.61E-04	4.90E-04	1.62E-03	8.18E-05	1.70E-03	1.70E-03	5.75E-03	1.61E-04	4.90E-04	1.62E-03	8.18E-05	1.40E-04	1.70E-03	4.19E-03
1.67E-04	5.27E-04	1.67E-03	8.46E-05	1.85E-03	1.85E-03	6.15E-03	1.67E-04	5.27E-04	1.67E-03	8.46E-05	1.42E-04	1.85E-03	4.44E-03
1.74E-04	5.68E-04	1.73E-03	8.76E-05	2.02E-03	2.02E-03	6.60E-03	1.74E-04	5.68E-04	1.73E-03	8.76E-05	1.44E-04	2.02E-03	4.72E-03
1.82E-04	6.07E-04	1.74E-03	8.73E-05	2.28E-03	2.28E-03	7.18E-03	1.82E-04	6.07E-04	1.74E-03	8.73E-05	1.39E-04	2.28E-03	5.04E-03
1.88E-04	6.43E-04	1.74E-03	8.68E-05	2.51E-03	2.51E-03	7.68E-03	1.88E-04	6.43E-04	1.74E-03	8.68E-05	1.32E-04	2.51E-03	5.30E-03
1.98E-04	6.98E-04	1.76E-03	8.82E-05	2.79E-03	2.79E-03	8.31E-03	1.98E-04	6.98E-04	1.76E-03	8.82E-05	1.29E-04	2.79E-03	5.66E-03
2.10E-04	7.61E-04	1.75E-03	8.87E-05	3.07E-03	3.07E-03	8.94E-03	2.10E-04	7.61E-04	1.75E-03	8.87E-05	1.26E-04	3.07E-03	6.00E-03
2.24E-04	8.44E-04	1.73E-03	8.85E-05	3.44E-03	3.44E-03	9.76E-03	2.24E-04	8.44E-04	1.73E-03	8.85E-05	1.26E-04	3.44E-03	6.45E-03

2.40E-04	9.49E-04	1.72E-03	8.73E-05	3.88E-03	3.88E-03	1.08E-02	2.40E-04	9.49E-04	1.72E-03	8.73E-05	1.27E-04	3.88E-03	7.00E-03
2.57E-04	1.07E-03	1.72E-03	8.67E-05	4.17E-03	4.17E-03	1.15E-02	2.57E-04	1.07E-03	1.72E-03	8.67E-05	1.28E-04	4.17E-03	7.44E-03
2.77E-04	1.20E-03	1.72E-03	8.61E-05	4.25E-03	4.25E-03	1.18E-02	2.77E-04	1.20E-03	1.72E-03	8.61E-05	1.26E-04	4.25E-03	7.67E-03
3.02E-04	1.37E-03	1.76E-03	8.63E-05	4.42E-03	4.42E-03	1.24E-02	3.02E-04	1.37E-03	1.76E-03	8.63E-05	1.30E-04	4.42E-03	8.07E-03
3.29E-04	1.52E-03	1.78E-03	8.69E-05	4.53E-03	4.53E-03	1.28E-02	3.29E-04	1.52E-03	1.78E-03	8.69E-05	1.34E-04	4.53E-03	8.38E-03
3.66E-04	1.69E-03	1.81E-03	8.84E-05	4.60E-03	4.60E-03	1.32E-02	3.66E-04	1.69E-03	1.81E-03	8.84E-05	1.37E-04	4.60E-03	8.69E-03
4.19E-04	1.83E-03	1.84E-03	8.90E-05	4.50E-03	4.50E-03	1.32E-02	4.19E-04	1.83E-03	1.84E-03	8.90E-05	1.38E-04	4.50E-03	8.82E-03
4.94E-04	2.01E-03	1.86E-03	8.97E-05	4.40E-03	4.40E-03	1.32E-02	4.94E-04	2.01E-03	1.86E-03	8.97E-05	1.40E-04	4.40E-03	8.99E-03
6.15E-04	2.11E-03	1.80E-03	9.07E-05	4.22E-03	4.22E-03	1.31E-02	6.15E-04	2.11E-03	1.80E-03	9.07E-05	1.46E-04	4.22E-03	8.99E-03
8.52E-04	2.08E-03	1.71E-03	8.80E-05	4.03E-03	4.03E-03	1.28E-02	8.52E-04	2.08E-03	1.71E-03	8.80E-05	1.44E-04	4.03E-03	8.90E-03
1.50E-03	2.10E-03	1.67E-03	8.38E-05	3.84E-03	3.84E-03	1.30E-02	1.50E-03	2.10E-03	1.67E-03	8.38E-05	1.35E-04	3.84E-03	9.33E-03
5.20E-03	2.03E-03	1.69E-03	8.15E-05	3.63E-03	3.63E-03	1.63E-02	5.20E-03	2.03E-03	1.69E-03	8.15E-05	1.30E-04	3.63E-03	1.28E-02
2.28E-02	2.09E-03	1.74E-03	8.17E-05	3.43E-03	3.43E-03	3.35E-02	2.28E-02	2.09E-03	1.74E-03	8.17E-05	1.30E-04	3.43E-03	3.02E-02
6.92E-03	2.04E-03	1.78E-03	8.29E-05	3.23E-03	3.23E-03	1.73E-02	6.92E-03	2.04E-03	1.78E-03	8.29E-05	1.31E-04	3.23E-03	1.42E-02
4.02E-03	1.90E-03	1.80E-03	8.43E-05	3.06E-03	3.06E-03	1.39E-02	4.02E-03	1.90E-03	1.80E-03	8.43E-05	1.35E-04	3.06E-03	1.10E-02
2.83E-03	1.78E-03	1.80E-03	8.54E-05	2.90E-03	2.90E-03	1.23E-02	2.83E-03	1.78E-03	1.80E-03	8.54E-05	1.42E-04	2.90E-03	9.54E-03
2.21E-03	1.66E-03	1.78E-03	8.56E-05	2.76E-03	2.76E-03	1.13E-02	2.21E-03	1.66E-03	1.78E-03	8.56E-05	1.46E-04	2.76E-03	8.64E-03
1.84E-03	1.54E-03	1.73E-03	8.46E-05	2.62E-03	2.62E-03	1.04E-02	1.84E-03	1.54E-03	1.73E-03	8.46E-05	1.46E-04	2.62E-03	7.97E-03
1.53E-03	1.46E-03	1.71E-03	8.44E-05	2.52E-03	2.52E-03	9.83E-03	1.53E-03	1.46E-03	1.71E-03	8.44E-05	1.47E-04	2.52E-03	7.45E-03
1.20E-03	1.40E-03	1.70E-03	8.45E-05	2.42E-03	2.42E-03	9.21E-03	1.20E-03	1.40E-03	1.70E-03	8.45E-05	1.46E-04	2.42E-03	6.94E-03
1.05E-03	1.31E-03	1.66E-03	8.26E-05	2.30E-03	2.30E-03	8.71E-03	1.05E-03	1.31E-03	1.66E-03	8.26E-05	1.43E-04	2.30E-03	6.55E-03
9.31E-04	1.24E-03	1.62E-03	8.06E-05	2.20E-03	2.20E-03	8.26E-03	9.31E-04	1.24E-03	1.62E-03	8.06E-05	1.40E-04	2.20E-03	6.20E-03
8.33E-04	1.17E-03	1.58E-03	7.88E-05	2.09E-03	2.09E-03	7.85E-03	8.33E-04	1.17E-03	1.58E-03	7.88E-05	1.37E-04	2.09E-03	5.89E-03
8.22E-05	2.52E-04	4.62E-04	2.44E-05	3.56E-04	3.56E-04	1.53E-03	8.22E-05	2.52E-04	4.62E-04	2.44E-05	4.39E-05	3.56E-04	1.22E-03
8.34E-05	2.58E-04	4.82E-04	2.54E-05	3.73E-04	3.73E-04	1.59E-03	8.34E-05	2.58E-04	4.82E-04	2.54E-05	4.66E-05	3.73E-04	1.27E-03
8.50E-05	2.64E-04	5.03E-04	2.64E-05	3.91E-04	3.91E-04	1.66E-03	8.50E-05	2.64E-04	5.03E-04	2.64E-05	4.90E-05	3.91E-04	1.32E-03
8.70E-05	2.71E-04	5.26E-04	2.75E-05	4.12E-04	4.12E-04	1.74E-03	8.70E-05	2.71E-04	5.26E-04	2.75E-05	5.12E-05	4.12E-04	1.37E-03
8.87E-05	2.78E-04	5.50E-04	2.86E-05	4.33E-04	4.33E-04	1.81E-03	8.87E-05	2.78E-04	5.50E-04	2.86E-05	5.29E-05	4.33E-04	1.43E-03
9.03E-05	2.84E-04	5.74E-04	2.98E-05	4.51E-04	4.51E-04	1.88E-03	9.03E-05	2.84E-04	5.74E-04	2.98E-05	5.44E-05	4.51E-04	1.48E-03
9.19E-05	2.91E-04	6.00E-04	3.11E-05	4.72E-04	4.72E-04	1.96E-03	9.19E-05	2.91E-04	6.00E-04	3.11E-05	5.59E-05	4.72E-04	1.54E-03
9.35E-05	2.97E-04	6.25E-04	3.25E-05	4.89E-04	4.89E-04	2.03E-03	9.35E-05	2.97E-04	6.25E-04	3.25E-05	5.77E-05	4.89E-04	1.59E-03
9.51E-05	3.02E-04	6.53E-04	3.40E-05	5.10E-04	5.10E-04	2.10E-03	9.51E-05	3.02E-04	6.53E-04	3.40E-05	5.99E-05	5.10E-04	1.65E-03
9.76E-05	3.07E-04	6.85E-04	3.55E-05	5.37E-04	5.37E-04	2.20E-03	9.76E-05	3.07E-04	6.85E-04	3.55E-05	6.22E-05	5.37E-04	1.72E-03
9.92E-05	3.12E-04	7.14E-04	3.71E-05	5.55E-04	5.55E-04	2.27E-03	9.92E-05	3.12E-04	7.14E-04	3.71E-05	6.45E-05	5.55E-04	1.78E-03
1.00E-04	3.13E-04	7.35E-04	3.83E-05	5.57E-04	5.57E-04	2.30E-03	1.00E-04	3.13E-04	7.35E-04	3.83E-05	6.66E-05	5.57E-04	1.81E-03
1.00E-04	3.12E-04	7.46E-04	3.94E-05	5.48E-04	5.48E-04	2.29E-03	1.00E-04	3.12E-04	7.46E-04	3.94E-05	6.75E-05	5.48E-04	1.81E-03
9.07E-05	2.70E-04	6.05E-04	3.58E-05	4.21E-04	4.21E-04	1.84E-03	9.07E-05	2.70E-04	6.05E-04	3.58E-05	6.10E-05	4.21E-04	1.48E-03
7.21E-05	1.65E-04	2.78E-04	1.98E-05	2.12E-04	2.12E-04	9.59E-04	7.21E-05	1.65E-04	2.78E-04	1.98E-05	3.30E-05	2.12E-04	7.80E-04
8.50E-05	2.34E-04	5.03E-04	3.29E-05	3.35E-04	3.35E-04	1.53E-03	8.50E-05	2.34E-04	5.03E-04	3.29E-05	5.41E-05	3.35E-04	1.24E-03
8.30E-05	2.17E-04	4.53E-04	3.08E-05	3.09E-04	3.09E-04	1.40E-03	8.30E-05	2.17E-04	4.53E-04	3.08E-05	5.19E-05	3.09E-04	1.14E-03
1.13E-04	3.44E-04	9.81E-04	5.11E-05	7.63E-04	7.63E-04	3.01E-03	1.13E-04	3.44E-04	9.81E-04	5.11E-05	8.43E-05	7.63E-04	2.34E-03
1.23E-04	3.72E-04	1.09E-03	5.50E-05	9.69E-04	9.69E-04	3.57E-03	1.23E-04	3.72E-04	1.09E-03	5.50E-05	9.00E-05	9.69E-04	2.69E-03
1.27E-04	3.82E-04	1.14E-03	5.78E-05	1.07E-03	1.07E-03	3.84E-03	1.27E-04	3.82E-04	1.14E-03	5.78E-05	9.59E-05	1.07E-03	2.87E-03
1.32E-04	3.94E-04	1.19E-03	6.05E-05	1.15E-03	1.15E-03	4.09E-03	1.32E-04	3.94E-04	1.19E-03	6.05E-05	1.02E-04	1.15E-03	3.04E-03
1.37E-04	4.08E-04	1.25E-03	6.33E-05	1.23E-03	1.23E-03	4.31E-03	1.37E-04	4.08E-04	1.25E-03	6.33E-05	1.08E-04	1.23E-03	3.19E-03
1.41E-04	4.24E-04	1.31E-03	6.65E-05	1.31E-03	1.31E-03	4.57E-03	1.41E-04	4.24E-04	1.31E-03	6.65E-05	1.13E-04	1.31E-03	3.37E-03
1.45E-04	4.45E-04	1.37E-03	6.96E-05	1.41E-03	1.41E-03	4.85E-03	1.45E-04	4.45E-04	1.37E-03	6.96E-05	1.18E-04	1.41E-03	3.56E-03
1.50E-04	4.71E-04	1.42E-03	7.19E-05	1.52E-03	1.52E-03	5.14E-03	1.50E-04	4.71E-04	1.42E-03	7.19E-05	1.22E-04	1.52E-03	3.75E-03
1.55E-04	5.00E-04	1.45E-03	7.41E-05	1.62E-03	1.62E-03	5.43E-03	1.55E-04	5.00E-04	1.45E-03	7.41E-05	1.23E-04	1.62E-03	3.93E-03
1.62E-04	5.29E-04	1.47E-03	7.54E-05	1.76E-03	1.76E-03	5.76E-03	1.62E-04	5.29E-04	1.47E-03	7.54E-05	1.22E-04	1.76E-03	4.12E-03
1.68E-04	5.62E-04	1.50E-03	7.66E-05	1.91E-03	1.91E-03	6.13E-03	1.68E-04	5.62E-04	1.50E-03	7.66E-05	1.20E-04	1.91E-03	4.34E-03
1.73E-04	5.97E-04	1.50E-03	7.61E-05	2.06E-03	2.06E-03	6.46E-03	1.73E-04	5.97E-04	1.50E-03	7.61E-05	1.16E-04	2.06E-03	4.52E-03
1.79E-04	6.32E-04	1.48E-03	7.53E-05	2.18E-03	2.18E-03	6.73E-03	1.79E-04	6.32E-04	1.48E-03	7.53E-05	1.10E-04	2.18E-03	4.66E-03
1.89E-04	6.84E-04	1.47E-03	7.58E-05	2.34E-03	2.34E-03	7.10E-03	1.89E-04	6.84E-04	1.47E-03	7.58E-05	1.08E-04	2.34E-03	4.86E-03

2.00E-04	7.48E-04	1.45E-03	7.53E-05	2.53E-03	2.53E-03	7.53E-03	2.00E-04	7.48E-04	1.45E-03	7.53E-05	1.08E-04	2.53E-03	5.11E-03
2.12E-04	8.25E-04	1.44E-03	7.43E-05	2.72E-03	2.72E-03	7.99E-03	2.12E-04	8.25E-04	1.44E-03	7.43E-05	1.09E-04	2.72E-03	5.38E-03
2.25E-04	9.04E-04	1.44E-03	7.35E-05	2.79E-03	2.79E-03	8.23E-03	2.25E-04	9.04E-04	1.44E-03	7.35E-05	1.11E-04	2.79E-03	5.55E-03
2.39E-04	9.86E-04	1.44E-03	7.30E-05	2.75E-03	2.75E-03	8.24E-03	2.39E-04	9.86E-04	1.44E-03	7.30E-05	1.09E-04	2.75E-03	5.60E-03
2.57E-04	1.07E-03	1.45E-03	7.24E-05	2.77E-03	2.77E-03	8.38E-03	2.57E-04	1.07E-03	1.45E-03	7.24E-05	1.09E-04	2.77E-03	5.73E-03
2.77E-04	1.13E-03	1.46E-03	7.21E-05	2.83E-03	2.83E-03	8.61E-03	2.77E-04	1.13E-03	1.46E-03	7.21E-05	1.12E-04	2.83E-03	5.89E-03
3.02E-04	1.21E-03	1.49E-03	7.32E-05	2.90E-03	2.90E-03	8.88E-03	3.02E-04	1.21E-03	1.49E-03	7.32E-05	1.14E-04	2.90E-03	6.09E-03
3.34E-04	1.26E-03	1.49E-03	7.34E-05	2.90E-03	2.90E-03	8.97E-03	3.34E-04	1.26E-03	1.49E-03	7.34E-05	1.16E-04	2.90E-03	6.18E-03
3.77E-04	1.31E-03	1.52E-03	7.39E-05	2.86E-03	2.86E-03	9.00E-03	3.77E-04	1.31E-03	1.52E-03	7.39E-05	1.17E-04	2.86E-03	6.26E-03
4.36E-04	1.32E-03	1.55E-03	7.48E-05	2.85E-03	2.85E-03	9.09E-03	4.36E-04	1.32E-03	1.55E-03	7.48E-05	1.19E-04	2.85E-03	6.35E-03
5.21E-04	1.32E-03	1.52E-03	7.62E-05	2.85E-03	2.85E-03	9.14E-03	5.21E-04	1.32E-03	1.52E-03	7.62E-05	1.25E-04	2.85E-03	6.41E-03
6.47E-04	1.31E-03	1.43E-03	7.39E-05	2.78E-03	2.78E-03	9.01E-03	6.47E-04	1.31E-03	1.43E-03	7.39E-05	1.23E-04	2.78E-03	6.36E-03
8.37E-04	1.31E-03	1.39E-03	7.05E-05	2.71E-03	2.71E-03	9.04E-03	8.37E-04	1.31E-03	1.39E-03	7.05E-05	1.16E-04	2.71E-03	6.44E-03
1.13E-03	1.27E-03	1.39E-03	6.82E-05	2.64E-03	2.64E-03	9.14E-03	1.13E-03	1.27E-03	1.39E-03	6.82E-05	1.11E-04	2.64E-03	6.61E-03
1.68E-03	1.25E-03	1.41E-03	6.75E-05	2.56E-03	2.56E-03	9.51E-03	1.68E-03	1.25E-03	1.41E-03	6.75E-05	1.10E-04	2.56E-03	7.07E-03
3.02E-03	1.30E-03	1.45E-03	6.80E-05	2.46E-03	2.46E-03	1.08E-02	3.02E-03	1.30E-03	1.45E-03	6.80E-05	1.10E-04	2.46E-03	8.40E-03
1.25E-02	1.28E-03	1.49E-03	6.94E-05	2.37E-03	2.37E-03	2.01E-02	1.25E-02	1.28E-03	1.49E-03	6.94E-05	1.13E-04	2.37E-03	1.78E-02
1.43E-02	1.22E-03	1.50E-03	7.06E-05	2.28E-03	2.28E-03	2.16E-02	1.43E-02	1.22E-03	1.50E-03	7.06E-05	1.16E-04	2.28E-03	1.95E-02
5.90E-03	1.16E-03	1.49E-03	7.12E-05	2.19E-03	2.19E-03	1.30E-02	5.90E-03	1.16E-03	1.49E-03	7.12E-05	1.21E-04	2.19E-03	1.09E-02
3.71E-03	1.11E-03	1.48E-03	7.16E-05	2.12E-03	2.12E-03	1.06E-02	3.71E-03	1.11E-03	1.48E-03	7.16E-05	1.25E-04	2.12E-03	8.62E-03
1.92E-03	1.11E-03	1.52E-03	7.54E-05	2.08E-03	2.08E-03	8.79E-03	1.92E-03	1.11E-03	1.52E-03	7.54E-05	1.33E-04	2.08E-03	6.84E-03
2.02E-03	1.05E-03	1.45E-03	7.17E-05	2.00E-03	2.00E-03	8.59E-03	2.02E-03	1.05E-03	1.45E-03	7.17E-05	1.27E-04	2.00E-03	6.72E-03
1.80E-03	9.96E-04	1.41E-03	6.95E-05	1.92E-03	1.92E-03	8.10E-03	1.80E-03	9.96E-04	1.41E-03	6.95E-05	1.22E-04	1.92E-03	6.31E-03
1.57E-03	9.55E-04	1.37E-03	6.78E-05	1.84E-03	1.84E-03	7.65E-03	1.57E-03	9.55E-04	1.37E-03	6.78E-05	1.19E-04	1.84E-03	5.93E-03
8.02E-05	2.41E-04	4.51E-04	2.37E-05	3.55E-04	3.55E-04	1.51E-03	8.02E-05	2.41E-04	4.51E-04	2.37E-05	4.37E-05	3.55E-04	1.19E-03
8.14E-05	2.46E-04	4.69E-04	2.45E-05	3.70E-04	3.70E-04	1.56E-03	8.14E-05	2.46E-04	4.69E-04	2.45E-05	4.55E-05	3.70E-04	1.24E-03
8.30E-05	2.52E-04	4.89E-04	2.54E-05	3.88E-04	3.88E-04	1.63E-03	8.30E-05	2.52E-04	4.89E-04	2.54E-05	4.69E-05	3.88E-04	1.28E-03
8.46E-05	2.58E-04	5.09E-04	2.64E-05	4.06E-04	4.06E-04	1.69E-03	8.46E-05	2.58E-04	5.09E-04	2.64E-05	4.82E-05	4.06E-04	1.33E-03
8.62E-05	2.65E-04	5.31E-04	2.74E-05	4.24E-04	4.24E-04	1.76E-03	8.62E-05	2.65E-04	5.31E-04	2.74E-05	4.93E-05	4.24E-04	1.38E-03
8.74E-05	2.71E-04	5.52E-04	2.85E-05	4.41E-04	4.41E-04	1.82E-03	8.74E-05	2.71E-04	5.52E-04	2.85E-05	5.07E-05	4.41E-04	1.43E-03
8.87E-05	2.77E-04	5.73E-04	2.97E-05	4.55E-04	4.55E-04	1.88E-03	8.87E-05	2.77E-04	5.73E-04	2.97E-05	5.23E-05	4.55E-04	1.48E-03
9.03E-05	2.81E-04	5.92E-04	3.09E-05	4.67E-04	4.67E-04	1.93E-03	9.03E-05	2.81E-04	5.92E-04	3.09E-05	5.41E-05	4.67E-04	1.52E-03
9.27E-05	2.86E-04	6.20E-04	3.22E-05	4.96E-04	4.96E-04	2.02E-03	9.27E-05	2.86E-04	6.20E-04	3.22E-05	5.59E-05	4.96E-04	1.58E-03
9.47E-05	2.91E-04	6.48E-04	3.35E-05	5.22E-04	5.22E-04	2.11E-03	9.47E-05	2.91E-04	6.48E-04	3.35E-05	5.74E-05	5.22E-04	1.65E-03
9.68E-05	2.96E-04	6.76E-04	3.48E-05	5.45E-04	5.45E-04	2.19E-03	9.68E-05	2.96E-04	6.76E-04	3.48E-05	5.87E-05	5.45E-04	1.71E-03
9.84E-05	3.01E-04	7.03E-04	3.61E-05	5.64E-04	5.64E-04	2.27E-03	9.84E-05	3.01E-04	7.03E-04	3.61E-05	5.96E-05	5.64E-04	1.76E-03
9.92E-05	3.03E-04	7.21E-04	3.76E-05	5.62E-04	5.62E-04	2.28E-03	9.92E-05	3.03E-04	7.21E-04	3.76E-05	6.00E-05	5.62E-04	1.78E-03
9.23E-05	2.76E-04	6.46E-04	3.62E-05	4.58E-04	4.58E-04	1.97E-03	9.23E-05	2.76E-04	6.46E-04	3.62E-05	5.86E-05	4.58E-04	1.57E-03
8.46E-05	2.39E-04	5.23E-04	3.25E-05	3.55E-04	3.55E-04	1.59E-03	8.46E-05	2.39E-04	5.23E-04	3.25E-05	5.36E-05	3.55E-04	1.29E-03
8.62E-05	2.46E-04	5.63E-04	3.43E-05	3.75E-04	3.75E-04	1.68E-03	8.62E-05	2.46E-04	5.63E-04	3.43E-05	5.80E-05	3.75E-04	1.36E-03
9.31E-05	2.72E-04	6.82E-04	3.94E-05	4.66E-04	4.66E-04	2.02E-03	9.31E-05	2.72E-04	6.82E-04	3.94E-05	6.76E-05	4.66E-04	1.62E-03
1.10E-04	3.36E-04	9.11E-04	4.74E-05	7.69E-04	7.69E-04	2.94E-03	1.10E-04	3.36E-04	9.11E-04	4.74E-05	7.82E-05	7.69E-04	2.25E-03
1.17E-04	3.56E-04	9.81E-04	5.03E-05	9.16E-04	9.16E-04	3.34E-03	1.17E-04	3.56E-04	9.81E-04	5.03E-05	8.28E-05	9.16E-04	2.50E-03
1.21E-04	3.65E-04	1.03E-03	5.26E-05	9.92E-04	9.92E-04	3.55E-03	1.21E-04	3.65E-04	1.03E-03	5.26E-05	8.78E-05	9.92E-04	2.64E-03
1.25E-04	3.77E-04	1.07E-03	5.47E-05	1.06E-03	1.06E-03	3.75E-03	1.25E-04	3.77E-04	1.07E-03	5.47E-05	9.35E-05	1.06E-03	2.78E-03
1.30E-04	3.93E-04	1.12E-03	5.69E-05	1.13E-03	1.13E-03	3.96E-03	1.30E-04	3.93E-04	1.12E-03	5.69E-05	9.77E-05	1.13E-03	2.93E-03
1.34E-04	4.09E-04	1.17E-03	5.94E-05	1.20E-03	1.20E-03	4.17E-03	1.34E-04	4.09E-04	1.17E-03	5.94E-05	1.01E-04	1.20E-03	3.07E-03
1.37E-04	4.27E-04	1.21E-03	6.18E-05	1.27E-03	1.27E-03	4.38E-03	1.37E-04	4.27E-04	1.21E-03	6.18E-05	1.04E-04	1.27E-03	3.21E-03
1.41E-04	4.45E-04	1.25E-03	6.39E-05	1.33E-03	1.33E-03	4.55E-03	1.41E-04	4.45E-04	1.25E-03	6.39E-05	1.07E-04	1.33E-03	3.33E-03
1.45E-04	4.66E-04	1.27E-03	6.50E-05	1.41E-03	1.41E-03	4.77E-03	1.45E-04	4.66E-04	1.27E-03	6.50E-05	1.07E-04	1.41E-03	3.46E-03
1.51E-04	4.92E-04	1.29E-03	6.66E-05	1.50E-03	1.50E-03	4.99E-03	1.51E-04	4.92E-04	1.29E-03	6.66E-05	1.06E-04	1.50E-03	3.60E-03
1.57E-04	5.18E-04	1.28E-03	6.61E-05	1.58E-03	1.58E-03	5.18E-03	1.57E-04	5.18E-04	1.28E-03	6.61E-05	1.04E-04	1.58E-03	3.71E-03
1.62E-04	5.43E-04	1.28E-03	6.56E-05	1.67E-03	1.67E-03	5.39E-03	1.62E-04	5.43E-04	1.28E-03	6.56E-05	1.01E-04	1.67E-03	3.82E-03
1.67E-04	5.75E-04	1.27E-03	6.58E-05	1.76E-03	1.76E-03	5.61E-03	1.67E-04	5.75E-04	1.27E-03	6.58E-05	9.59E-05	1.76E-03	3.94E-03

1.74E-04	6.11E-04	1.26E-03	6.54E-05	1.87E-03	1.87E-03	5.85E-03	1.74E-04	6.11E-04	1.26E-03	6.54E-05	9.31E-05	1.87E-03	4.07E-03
1.83E-04	6.57E-04	1.24E-03	6.48E-05	1.95E-03	1.95E-03	6.05E-03	1.83E-04	6.57E-04	1.24E-03	6.48E-05	9.30E-05	1.95E-03	4.19E-03
1.93E-04	7.10E-04	1.23E-03	6.40E-05	2.03E-03	2.03E-03	6.26E-03	1.93E-04	7.10E-04	1.23E-03	6.40E-05	9.50E-05	2.03E-03	4.32E-03
2.04E-04	7.61E-04	1.23E-03	6.35E-05	2.06E-03	2.06E-03	6.38E-03	2.04E-04	7.61E-04	1.23E-03	6.35E-05	9.74E-05	2.06E-03	4.42E-03
2.15E-04	8.09E-04	1.23E-03	6.30E-05	2.00E-03	2.00E-03	6.33E-03	2.15E-04	8.09E-04	1.23E-03	6.30E-05	9.55E-05	2.00E-03	4.42E-03
2.29E-04	8.59E-04	1.24E-03	6.27E-05	2.00E-03	2.00E-03	6.40E-03	2.29E-04	8.59E-04	1.24E-03	6.27E-05	9.40E-05	2.00E-03	4.49E-03
2.45E-04	9.07E-04	1.25E-03	6.25E-05	2.05E-03	2.05E-03	6.57E-03	2.45E-04	9.07E-04	1.25E-03	6.25E-05	9.69E-05	2.05E-03	4.61E-03
2.62E-04	9.52E-04	1.27E-03	6.29E-05	2.10E-03	2.10E-03	6.74E-03	2.62E-04	9.52E-04	1.27E-03	6.29E-05	9.99E-05	2.10E-03	4.74E-03
2.83E-04	9.86E-04	1.28E-03	6.37E-05	2.15E-03	2.15E-03	6.92E-03	2.83E-04	9.86E-04	1.28E-03	6.37E-05	1.01E-04	2.15E-03	4.87E-03
3.08E-04	9.85E-04	1.29E-03	6.41E-05	2.15E-03	2.15E-03	6.96E-03	3.08E-04	9.85E-04	1.29E-03	6.41E-05	1.03E-04	2.15E-03	4.91E-03
3.39E-04	9.75E-04	1.31E-03	6.41E-05	2.11E-03	2.11E-03	6.91E-03	3.39E-04	9.75E-04	1.31E-03	6.41E-05	1.02E-04	2.11E-03	4.90E-03
3.75E-04	9.54E-04	1.33E-03	6.42E-05	2.07E-03	2.07E-03	6.87E-03	3.75E-04	9.54E-04	1.33E-03	6.42E-05	1.03E-04	2.07E-03	4.90E-03
4.21E-04	9.64E-04	1.30E-03	6.53E-05	2.09E-03	2.09E-03	6.93E-03	4.21E-04	9.64E-04	1.30E-03	6.53E-05	1.09E-04	2.09E-03	4.95E-03
4.85E-04	9.78E-04	1.24E-03	6.44E-05	2.09E-03	2.09E-03	6.96E-03	4.85E-04	9.78E-04	1.24E-03	6.44E-05	1.09E-04	2.09E-03	4.98E-03
5.64E-04	9.71E-04	1.20E-03	6.16E-05	2.07E-03	2.07E-03	6.94E-03	5.64E-04	9.71E-04	1.20E-03	6.16E-05	1.03E-04	2.07E-03	4.97E-03
6.60E-04	9.37E-04	1.18E-03	5.92E-05	2.04E-03	2.04E-03	6.92E-03	6.60E-04	9.37E-04	1.18E-03	5.92E-05	9.77E-05	2.04E-03	4.98E-03
8.02E-04	9.00E-04	1.19E-03	5.80E-05	2.00E-03	2.00E-03	6.95E-03	8.02E-04	9.00E-04	1.19E-03	5.80E-05	9.60E-05	2.00E-03	5.05E-03
1.01E-03	9.20E-04	1.21E-03	5.81E-05	1.96E-03	1.96E-03	7.11E-03	1.01E-03	9.20E-04	1.21E-03	5.81E-05	9.63E-05	1.96E-03	5.25E-03
1.31E-03	9.35E-04	1.24E-03	5.83E-05	1.89E-03	1.89E-03	7.32E-03	1.31E-03	9.35E-04	1.24E-03	5.83E-05	9.63E-05	1.89E-03	5.53E-03
1.96E-03	9.17E-04	1.26E-03	5.92E-05	1.83E-03	1.83E-03	7.85E-03	1.96E-03	9.17E-04	1.26E-03	5.92E-05	9.80E-05	1.83E-03	6.12E-03
3.87E-03	8.80E-04	1.27E-03	6.00E-05	1.77E-03	1.77E-03	9.63E-03	3.87E-03	8.80E-04	1.27E-03	6.00E-05	1.01E-04	1.77E-03	7.96E-03
3.34E-02	8.59E-04	1.28E-03	6.12E-05	1.74E-03	1.74E-03	3.91E-02	3.34E-02	8.59E-04	1.28E-03	6.12E-05	1.06E-04	1.74E-03	3.74E-02
2.01E-02	8.23E-04	1.25E-03	6.08E-05	1.68E-03	1.68E-03	2.56E-02	2.01E-02	8.23E-04	1.25E-03	6.08E-05	1.08E-04	1.68E-03	2.41E-02
5.47E-02	7.95E-04	1.23E-03	6.03E-05	1.63E-03	1.63E-03	6.00E-02	5.47E-02	7.95E-04	1.23E-03	6.03E-05	1.08E-04	1.63E-03	5.85E-02
6.90E-03	7.67E-04	1.20E-03	5.90E-05	1.58E-03	1.58E-03	1.21E-02	6.90E-03	7.67E-04	1.20E-03	5.90E-05	1.05E-04	1.58E-03	1.06E-02
7.77E-05	2.30E-04	4.38E-04	2.28E-05	3.49E-04	3.49E-04	1.47E-03	7.77E-05	2.30E-04	4.38E-04	2.28E-05	4.20E-05	3.49E-04	1.16E-03
7.93E-05	2.35E-04	4.54E-04	2.35E-05	3.63E-04	3.63E-04	1.52E-03	7.93E-05	2.35E-04	4.54E-04	2.35E-05	4.30E-05	3.63E-04	1.20E-03
8.10E-05	2.40E-04	4.71E-04	2.43E-05	3.80E-04	3.80E-04	1.58E-03	8.10E-05	2.40E-04	4.71E-04	2.43E-05	4.40E-05	3.80E-04	1.24E-03
8.22E-05	2.46E-04	4.89E-04	2.52E-05	3.94E-04	3.94E-04	1.63E-03	8.22E-05	2.46E-04	4.89E-04	2.52E-05	4.50E-05	3.94E-04	1.28E-03
8.38E-05	2.52E-04	5.08E-04	2.61E-05	4.10E-04	4.10E-04	1.69E-03	8.38E-05	2.52E-04	5.08E-04	2.61E-05	4.62E-05	4.10E-04	1.33E-03
8.50E-05	2.58E-04	5.26E-04	2.71E-05	4.26E-04	4.26E-04	1.75E-03	8.50E-05	2.58E-04	5.26E-04	2.71E-05	4.75E-05	4.26E-04	1.37E-03
8.62E-05	2.64E-04	5.43E-04	2.82E-05	4.41E-04	4.41E-04	1.80E-03	8.62E-05	2.64E-04	5.43E-04	2.82E-05	4.89E-05	4.41E-04	1.41E-03
8.79E-05	2.68E-04	5.62E-04	2.92E-05	4.59E-04	4.59E-04	1.86E-03	8.79E-05	2.68E-04	5.62E-04	2.92E-05	5.01E-05	4.59E-04	1.46E-03
9.03E-05	2.72E-04	5.87E-04	3.03E-05	4.81E-04	4.81E-04	1.94E-03	9.03E-05	2.72E-04	5.87E-04	3.03E-05	5.10E-05	4.81E-04	1.51E-03
9.19E-05	2.77E-04	6.11E-04	3.13E-05	5.03E-04	5.03E-04	2.02E-03	9.19E-05	2.77E-04	6.11E-04	3.13E-05	5.16E-05	5.03E-04	1.57E-03
9.39E-05	2.82E-04	6.36E-04	3.25E-05	5.27E-04	5.27E-04	2.10E-03	9.39E-05	2.82E-04	6.36E-04	3.25E-05	5.22E-05	5.27E-04	1.62E-03
9.51E-05	2.88E-04	6.58E-04	3.38E-05	5.48E-04	5.48E-04	2.17E-03	9.51E-05	2.88E-04	6.58E-04	3.38E-05	5.33E-05	5.48E-04	1.68E-03
9.68E-05	2.92E-04	6.82E-04	3.53E-05	5.66E-04	5.66E-04	2.24E-03	9.68E-05	2.92E-04	6.82E-04	3.53E-05	5.53E-05	5.66E-04	1.73E-03
9.47E-05	2.88E-04	6.80E-04	3.59E-05	5.34E-04	5.34E-04	2.17E-03	9.47E-05	2.88E-04	6.80E-04	3.59E-05	5.76E-05	5.34E-04	1.69E-03
8.79E-05	2.57E-04	6.00E-04	3.41E-05	4.24E-04	4.24E-04	1.83E-03	8.79E-05	2.57E-04	6.00E-04	3.41E-05	5.74E-05	4.24E-04	1.46E-03
8.87E-05	2.62E-04	6.32E-04	3.58E-05	4.49E-04	4.49E-04	1.92E-03	8.87E-05	2.62E-04	6.32E-04	3.58E-05	6.13E-05	4.49E-04	1.53E-03
9.11E-05	2.72E-04	6.78E-04	3.83E-05	4.90E-04	4.90E-04	2.06E-03	9.11E-05	2.72E-04	6.78E-04	3.83E-05	6.44E-05	4.90E-04	1.63E-03
1.08E-04	3.31E-04	8.54E-04	4.44E-05	7.91E-04	7.91E-04	2.92E-03	1.08E-04	3.31E-04	8.54E-04	4.44E-05	7.25E-05	7.91E-04	2.20E-03
1.12E-04	3.42E-04	8.91E-04	4.61E-05	8.64E-04	8.64E-04	3.12E-03	1.12E-04	3.42E-04	8.91E-04	4.61E-05	7.64E-05	8.64E-04	2.33E-03
1.15E-04	3.53E-04	9.32E-04	4.80E-05	9.22E-04	9.22E-04	3.29E-03	1.15E-04	3.53E-04	9.32E-04	4.80E-05	8.13E-05	9.22E-04	2.45E-03
1.19E-04	3.64E-04	9.69E-04	4.94E-05	9.77E-04	9.77E-04	3.46E-03	1.19E-04	3.64E-04	9.69E-04	4.94E-05	8.54E-05	9.77E-04	2.56E-03
1.23E-04	3.77E-04	1.01E-03	5.19E-05	1.01E-03	1.01E-03	3.59E-03	1.23E-04	3.77E-04	1.01E-03	5.19E-05	8.87E-05	1.01E-03	2.67E-03
1.26E-04	3.89E-04	1.05E-03	5.34E-05	1.07E-03	1.07E-03	3.75E-03	1.26E-04	3.89E-04	1.05E-03	5.34E-05	8.93E-05	1.07E-03	2.77E-03
1.30E-04	4.02E-04	1.08E-03	5.55E-05	1.12E-03	1.12E-03	3.90E-03	1.30E-04	4.02E-04	1.08E-03	5.55E-05	9.27E-05	1.12E-03	2.88E-03
1.33E-04	4.17E-04	1.11E-03	5.69E-05	1.17E-03	1.17E-03	4.05E-03	1.33E-04	4.17E-04	1.11E-03	5.69E-05	9.45E-05	1.17E-03	2.98E-03
1.37E-04	4.34E-04	1.12E-03	5.79E-05	1.22E-03	1.22E-03	4.19E-03	1.37E-04	4.34E-04	1.12E-03	5.79E-05	9.36E-05	1.22E-03	3.06E-03
1.42E-04	4.54E-04	1.12E-03	5.87E-05	1.26E-03	1.26E-03	4.31E-03	1.42E-04	4.54E-04	1.12E-03	5.87E-05	9.27E-05	1.26E-03	3.13E-03
1.47E-04	4.71E-04	1.11E-03	5.80E-05	1.33E-03	1.33E-03	4.44E-03	1.47E-04	4.71E-04	1.11E-03	5.80E-05	9.14E-05	1.33E-03	3.21E-03
1.52E-04	4.92E-04	1.11E-03	5.78E-05	1.41E-03	1.41E-03	4.63E-03	1.52E-04	4.92E-04	1.11E-03	5.78E-05	8.88E-05	1.41E-03	3.31E-03

1.57E-04	5.16E-04	1.10E-03	5.75E-05	1.48E-03	1.48E-03	4.78E-03	1.57E-04	5.16E-04	1.10E-03	5.75E-05	8.38E-05	1.48E-03	3.39E-03
1.62E-04	5.47E-04	1.10E-03	5.76E-05	1.55E-03	1.55E-03	4.96E-03	1.62E-04	5.47E-04	1.10E-03	5.76E-05	8.21E-05	1.55E-03	3.49E-03
1.69E-04	5.78E-04	1.08E-03	5.66E-05	1.55E-03	1.55E-03	4.98E-03	1.69E-04	5.78E-04	1.08E-03	5.66E-05	8.12E-05	1.55E-03	3.51E-03
1.77E-04	6.10E-04	1.06E-03	5.61E-05	1.59E-03	1.59E-03	5.09E-03	1.77E-04	6.10E-04	1.06E-03	5.61E-05	8.33E-05	1.59E-03	3.58E-03
1.86E-04	6.45E-04	1.06E-03	5.56E-05	1.61E-03	1.61E-03	5.17E-03	1.86E-04	6.45E-04	1.06E-03	5.56E-05	8.60E-05	1.61E-03	3.64E-03
1.95E-04	6.85E-04	1.07E-03	5.53E-05	1.57E-03	1.57E-03	5.13E-03	1.95E-04	6.85E-04	1.07E-03	5.53E-05	8.55E-05	1.57E-03	3.65E-03
2.05E-04	7.21E-04	1.08E-03	5.49E-05	1.55E-03	1.55E-03	5.16E-03	2.05E-04	7.21E-04	1.08E-03	5.49E-05	8.26E-05	1.55E-03	3.69E-03
2.17E-04	7.48E-04	1.08E-03	5.45E-05	1.58E-03	1.58E-03	5.27E-03	2.17E-04	7.48E-04	1.08E-03	5.45E-05	8.35E-05	1.58E-03	3.77E-03
2.31E-04	7.71E-04	1.09E-03	5.47E-05	1.61E-03	1.61E-03	5.37E-03	2.31E-04	7.71E-04	1.09E-03	5.47E-05	8.70E-05	1.61E-03	3.84E-03
2.45E-04	7.82E-04	1.11E-03	5.51E-05	1.65E-03	1.65E-03	5.48E-03	2.45E-04	7.82E-04	1.11E-03	5.51E-05	8.82E-05	1.65E-03	3.92E-03
2.61E-04	7.76E-04	1.11E-03	5.57E-05	1.69E-03	1.69E-03	5.58E-03	2.61E-04	7.76E-04	1.11E-03	5.57E-05	8.87E-05	1.69E-03	3.98E-03
2.79E-04	7.75E-04	1.13E-03	5.66E-05	1.70E-03	1.70E-03	5.65E-03	2.79E-04	7.75E-04	1.13E-03	5.66E-05	9.16E-05	1.70E-03	4.04E-03
3.00E-04	7.53E-04	1.14E-03	5.58E-05	1.65E-03	1.65E-03	5.55E-03	3.00E-04	7.53E-04	1.14E-03	5.58E-05	8.99E-05	1.65E-03	3.99E-03
3.22E-04	7.59E-04	1.16E-03	5.62E-05	1.62E-03	1.62E-03	5.53E-03	3.22E-04	7.59E-04	1.16E-03	5.62E-05	9.13E-05	1.62E-03	4.00E-03
3.51E-04	7.57E-04	1.14E-03	5.71E-05	1.62E-03	1.62E-03	5.55E-03	3.51E-04	7.57E-04	1.14E-03	5.71E-05	9.60E-05	1.62E-03	4.02E-03
3.88E-04	7.73E-04	1.10E-03	5.67E-05	1.64E-03	1.64E-03	5.60E-03	3.88E-04	7.73E-04	1.10E-03	5.67E-05	9.68E-05	1.64E-03	4.05E-03
4.22E-04	7.71E-04	1.06E-03	5.47E-05	1.65E-03	1.65E-03	5.61E-03	4.22E-04	7.71E-04	1.06E-03	5.47E-05	9.27E-05	1.65E-03	4.05E-03
4.67E-04	7.46E-04	1.03E-03	5.24E-05	1.64E-03	1.64E-03	5.58E-03	4.67E-04	7.46E-04	1.03E-03	5.24E-05	8.76E-05	1.64E-03	4.03E-03
5.34E-04	7.06E-04	1.02E-03	5.08E-05	1.61E-03	1.61E-03	5.54E-03	5.34E-04	7.06E-04	1.02E-03	5.08E-05	8.47E-05	1.61E-03	4.01E-03
6.08E-04	6.98E-04	1.03E-03	5.02E-05	1.59E-03	1.59E-03	5.57E-03	6.08E-04	6.98E-04	1.03E-03	5.02E-05	8.44E-05	1.59E-03	4.06E-03
6.87E-04	7.18E-04	1.06E-03	5.05E-05	1.56E-03	1.56E-03	5.64E-03	6.87E-04	7.18E-04	1.06E-03	5.05E-05	8.47E-05	1.56E-03	4.16E-03
7.80E-04	7.29E-04	1.08E-03	5.11E-05	1.52E-03	1.52E-03	5.69E-03	7.80E-04	7.29E-04	1.08E-03	5.11E-05	8.53E-05	1.52E-03	4.25E-03
9.00E-04	7.15E-04	1.10E-03	5.18E-05	1.48E-03	1.48E-03	5.73E-03	9.00E-04	7.15E-04	1.10E-03	5.18E-05	8.71E-05	1.48E-03	4.34E-03
9.79E-04	6.88E-04	1.10E-03	5.23E-05	1.44E-03	1.44E-03	5.69E-03	9.79E-04	6.88E-04	1.10E-03	5.23E-05	8.99E-05	1.44E-03	4.35E-03
9.79E-04	6.66E-04	1.10E-03	5.26E-05	1.40E-03	1.40E-03	5.59E-03	9.79E-04	6.66E-04	1.10E-03	5.26E-05	9.26E-05	1.40E-03	4.28E-03
9.41E-04	6.50E-04	1.08E-03	5.28E-05	1.37E-03	1.37E-03	5.47E-03	9.41E-04	6.50E-04	1.08E-03	5.28E-05	9.46E-05	1.37E-03	4.19E-03
7.61E-05	2.19E-04	4.22E-04	2.18E-05	3.43E-04	3.43E-04	1.43E-03	7.61E-05	2.19E-04	4.22E-04	2.18E-05	3.96E-05	3.43E-04	1.12E-03
7.77E-05	2.24E-04	4.37E-04	2.26E-05	3.56E-04	3.56E-04	1.47E-03	7.77E-05	2.24E-04	4.37E-04	2.26E-05	4.04E-05	3.56E-04	1.16E-03
7.85E-05	2.30E-04	4.52E-04	2.33E-05	3.69E-04	3.69E-04	1.52E-03	7.85E-05	2.30E-04	4.52E-04	2.33E-05	4.13E-05	3.69E-04	1.19E-03
8.02E-05	2.35E-04	4.66E-04	2.41E-05	3.83E-04	3.83E-04	1.57E-03	8.02E-05	2.35E-04	4.66E-04	2.41E-05	4.23E-05	3.83E-04	1.23E-03
8.14E-05	2.41E-04	4.82E-04	2.49E-05	3.98E-04	3.98E-04	1.63E-03	8.14E-05	2.41E-04	4.82E-04	2.49E-05	4.32E-05	3.98E-04	1.27E-03
8.30E-05	2.47E-04	4.97E-04	2.57E-05	4.12E-04	4.12E-04	1.68E-03	8.30E-05	2.47E-04	4.97E-04	2.57E-05	4.41E-05	4.12E-04	1.31E-03
8.42E-05	2.52E-04	5.14E-04	2.66E-05	4.27E-04	4.27E-04	1.73E-03	8.42E-05	2.52E-04	5.14E-04	2.66E-05	4.48E-05	4.27E-04	1.35E-03
8.54E-05	2.57E-04	5.32E-04	2.74E-05	4.46E-04	4.46E-04	1.79E-03	8.54E-05	2.57E-04	5.32E-04	2.74E-05	4.52E-05	4.46E-04	1.39E-03
8.70E-05	2.61E-04	5.52E-04	2.83E-05	4.65E-04	4.65E-04	1.86E-03	8.70E-05	2.61E-04	5.52E-04	2.83E-05	4.57E-05	4.65E-04	1.44E-03
8.87E-05	2.67E-04	5.73E-04	2.92E-05	4.87E-04	4.87E-04	1.93E-03	8.87E-05	2.67E-04	5.73E-04	2.92E-05	4.65E-05	4.87E-04	1.49E-03
9.07E-05	2.72E-04	5.94E-04	3.03E-05	5.14E-04	5.14E-04	2.02E-03	9.07E-05	2.72E-04	5.94E-04	3.03E-05	4.77E-05	5.14E-04	1.55E-03
9.23E-05	2.77E-04	6.17E-04	3.15E-05	5.43E-04	5.43E-04	2.10E-03	9.23E-05	2.77E-04	6.17E-04	3.15E-05	4.96E-05	5.43E-04	1.61E-03
9.39E-05	2.83E-04	6.41E-04	3.29E-05	5.69E-04	5.69E-04	2.19E-03	9.39E-05	2.83E-04	6.41E-04	3.29E-05	5.23E-05	5.69E-04	1.67E-03
9.43E-05	2.85E-04	6.57E-04	3.43E-05	5.79E-04	5.79E-04	2.23E-03	9.43E-05	2.85E-04	6.57E-04	3.43E-05	5.55E-05	5.79E-04	1.71E-03
9.11E-05	2.77E-04	6.53E-04	3.49E-05	5.31E-04	5.31E-04	2.12E-03	9.11E-05	2.77E-04	6.53E-04	3.49E-05	5.81E-05	5.31E-04	1.64E-03
9.31E-05	2.87E-04	6.93E-04	3.70E-05	5.81E-04	5.81E-04	2.27E-03	9.31E-05	2.87E-04	6.93E-04	3.70E-05	6.07E-05	5.81E-04	1.75E-03
9.92E-05	3.08E-04	7.47E-04	3.94E-05	6.81E-04	6.81E-04	2.56E-03	9.92E-05	3.08E-04	7.47E-04	3.94E-05	6.41E-05	6.81E-04	1.94E-03
1.04E-04	3.21E-04	7.84E-04	4.07E-05	7.63E-04	7.63E-04	2.78E-03	1.04E-04	3.21E-04	7.84E-04	4.07E-05	6.69E-05	7.63E-04	2.08E-03
1.07E-04	3.30E-04	8.15E-04	4.22E-05	8.06E-04	8.06E-04	2.91E-03	1.07E-04	3.30E-04	8.15E-04	4.22E-05	7.08E-05	8.06E-04	2.17E-03
1.10E-04	3.39E-04	8.50E-04	4.37E-05	8.43E-04	8.43E-04	3.03E-03	1.10E-04	3.39E-04	8.50E-04	4.37E-05	7.53E-05	8.43E-04	2.26E-03
1.14E-04	3.47E-04	8.80E-04	4.49E-05	8.77E-04	8.77E-04	3.14E-03	1.14E-04	3.47E-04	8.80E-04	4.49E-05	7.76E-05	8.77E-04	2.34E-03
1.17E-04	3.56E-04	9.12E-04	4.67E-05	9.10E-04	9.10E-04	3.25E-03	1.17E-04	3.56E-04	9.12E-04	4.67E-05	7.85E-05	9.10E-04	2.42E-03
1.21E-04	3.64E-04	9.42E-04	4.85E-05	9.48E-04	9.48E-04	3.37E-03	1.21E-04	3.64E-04	9.42E-04	4.85E-05	8.02E-05	9.48E-04	2.50E-03
1.23E-04	3.74E-04	9.66E-04	4.97E-05	9.87E-04	9.87E-04	3.49E-03	1.23E-04	3.74E-04	9.66E-04	4.97E-05	8.27E-05	9.87E-04	2.58E-03
1.27E-04	3.86E-04	9.83E-04	5.08E-05	1.02E-03	1.02E-03	3.59E-03	1.27E-04	3.86E-04	9.83E-04	5.08E-05	8.32E-05	1.02E-03	2.65E-03
1.30E-04	3.99E-04	9.88E-04	5.16E-05	1.05E-03	1.05E-03	3.68E-03	1.30E-04	3.99E-04	9.88E-04	5.16E-05	8.22E-05	1.05E-03	2.70E-03
1.34E-04	4.13E-04	9.84E-04	5.18E-05	1.09E-03	1.09E-03	3.77E-03	1.34E-04	4.13E-04	9.84E-04	5.18E-05	8.15E-05	1.09E-03	2.76E-03
1.39E-04	4.29E-04	9.81E-04	5.17E-05	1.15E-03	1.15E-03	3.91E-03	1.39E-04	4.29E-04	9.81E-04	5.17E-05	8.20E-05	1.15E-03	2.84E-03

1.43E-04	4.45E-04	9.71E-04	5.11E-05	1.21E-03	1.21E-03	4.02E-03	1.43E-04	4.45E-04	9.71E-04	5.11E-05	7.84E-05	1.21E-03	2.89E-03
1.47E-04	4.64E-04	9.65E-04	5.09E-05	1.26E-03	1.26E-03	4.14E-03	1.47E-04	4.64E-04	9.65E-04	5.09E-05	7.43E-05	1.26E-03	2.96E-03
1.51E-04	4.86E-04	9.61E-04	5.06E-05	1.29E-03	1.29E-03	4.22E-03	1.51E-04	4.86E-04	9.61E-04	5.06E-05	7.25E-05	1.29E-03	3.01E-03
1.56E-04	5.09E-04	9.50E-04	5.03E-05	1.28E-03	1.28E-03	4.22E-03	1.56E-04	5.09E-04	9.50E-04	5.03E-05	7.19E-05	1.28E-03	3.01E-03
1.63E-04	5.34E-04	9.37E-04	4.98E-05	1.29E-03	1.29E-03	4.27E-03	1.63E-04	5.34E-04	9.37E-04	4.98E-05	7.38E-05	1.29E-03	3.05E-03
1.70E-04	5.63E-04	9.32E-04	4.92E-05	1.30E-03	1.30E-03	4.32E-03	1.70E-04	5.63E-04	9.32E-04	4.92E-05	7.65E-05	1.30E-03	3.09E-03
1.77E-04	5.91E-04	9.35E-04	4.90E-05	1.27E-03	1.27E-03	4.30E-03	1.77E-04	5.91E-04	9.35E-04	4.90E-05	7.68E-05	1.27E-03	3.10E-03
1.85E-04	6.17E-04	9.43E-04	4.87E-05	1.25E-03	1.25E-03	4.30E-03	1.85E-04	6.17E-04	9.43E-04	4.87E-05	7.42E-05	1.25E-03	3.12E-03
1.93E-04	6.31E-04	9.45E-04	4.82E-05	1.27E-03	1.27E-03	4.37E-03	1.93E-04	6.31E-04	9.45E-04	4.82E-05	7.30E-05	1.27E-03	3.16E-03
2.02E-04	6.38E-04	9.50E-04	4.81E-05	1.29E-03	1.29E-03	4.42E-03	2.02E-04	6.38E-04	9.50E-04	4.81E-05	7.56E-05	1.29E-03	3.21E-03
2.13E-04	6.40E-04	9.63E-04	4.83E-05	1.31E-03	1.31E-03	4.48E-03	2.13E-04	6.40E-04	9.63E-04	4.83E-05	7.83E-05	1.31E-03	3.25E-03
2.23E-04	6.41E-04	9.78E-04	4.90E-05	1.35E-03	1.35E-03	4.58E-03	2.23E-04	6.41E-04	9.78E-04	4.90E-05	7.85E-05	1.35E-03	3.32E-03
2.35E-04	6.26E-04	9.79E-04	4.93E-05	1.38E-03	1.38E-03	4.64E-03	2.35E-04	6.26E-04	9.79E-04	4.93E-05	7.93E-05	1.38E-03	3.34E-03
2.47E-04	6.19E-04	9.83E-04	4.94E-05	1.38E-03	1.38E-03	4.67E-03	2.47E-04	6.19E-04	9.83E-04	4.94E-05	8.09E-05	1.38E-03	3.36E-03
2.57E-04	6.33E-04	1.01E-03	5.00E-05	1.36E-03	1.36E-03	4.68E-03	2.57E-04	6.33E-04	1.01E-03	5.00E-05	8.08E-05	1.36E-03	3.40E-03
2.51E-04	6.43E-04	1.05E-03	5.13E-05	1.34E-03	1.34E-03	4.67E-03	2.51E-04	6.43E-04	1.05E-03	5.13E-05	8.39E-05	1.34E-03	3.41E-03
2.40E-04	6.51E-04	1.05E-03	5.30E-05	1.33E-03	1.33E-03	4.64E-03	2.40E-04	6.51E-04	1.05E-03	5.30E-05	8.95E-05	1.33E-03	3.41E-03
2.56E-04	6.54E-04	1.00E-03	5.25E-05	1.34E-03	1.34E-03	4.65E-03	2.56E-04	6.54E-04	1.00E-03	5.25E-05	9.03E-05	1.34E-03	3.40E-03
2.85E-04	6.47E-04	9.55E-04	5.01E-05	1.36E-03	1.36E-03	4.66E-03	2.85E-04	6.47E-04	9.55E-04	5.01E-05	8.56E-05	1.36E-03	3.38E-03
2.89E-04	6.32E-04	9.34E-04	4.81E-05	1.36E-03	1.36E-03	4.63E-03	2.89E-04	6.32E-04	9.34E-04	4.81E-05	8.11E-05	1.36E-03	3.35E-03
2.84E-04	6.06E-04	9.32E-04	4.71E-05	1.36E-03	1.36E-03	4.59E-03	2.84E-04	6.06E-04	9.32E-04	4.71E-05	7.90E-05	1.36E-03	3.31E-03
2.88E-04	5.94E-04	9.39E-04	4.67E-05	1.36E-03	1.36E-03	4.58E-03	2.88E-04	5.94E-04	9.39E-04	4.67E-05	7.88E-05	1.36E-03	3.30E-03
4.04E-04	5.85E-04	9.27E-04	4.50E-05	1.33E-03	1.33E-03	4.63E-03	4.04E-04	5.85E-04	9.27E-04	4.50E-05	7.64E-05	1.33E-03	3.37E-03
4.17E-04	5.86E-04	9.31E-04	4.44E-05	1.29E-03	1.29E-03	4.55E-03	4.17E-04	5.86E-04	9.31E-04	4.44E-05	7.52E-05	1.29E-03	3.34E-03
4.12E-04	5.90E-04	9.52E-04	4.49E-05	1.26E-03	1.26E-03	4.52E-03	4.12E-04	5.90E-04	9.52E-04	4.49E-05	7.59E-05	1.26E-03	3.33E-03
3.99E-04	5.81E-04	9.69E-04	4.57E-05	1.23E-03	1.23E-03	4.45E-03	3.99E-04	5.81E-04	9.69E-04	4.57E-05	7.80E-05	1.23E-03	3.30E-03
3.96E-04	5.64E-04	9.72E-04	4.63E-05	1.20E-03	1.20E-03	4.38E-03	3.96E-04	5.64E-04	9.72E-04	4.63E-05	8.06E-05	1.20E-03	3.26E-03
7.37E-05	2.11E-04	4.05E-04	2.09E-05	3.36E-04	3.36E-04	1.38E-03	7.37E-05	2.11E-04	4.05E-04	2.09E-05	3.72E-05	3.36E-04	1.08E-03
7.53E-05	2.16E-04	4.16E-04	2.16E-05	3.45E-04	3.45E-04	1.42E-03	7.53E-05	2.16E-04	4.16E-04	2.16E-05	3.80E-05	3.45E-04	1.11E-03
7.61E-05	2.21E-04	4.29E-04	2.23E-05	3.57E-04	3.57E-04	1.46E-03	7.61E-05	2.21E-04	4.29E-04	2.23E-05	3.88E-05	3.57E-04	1.14E-03
7.77E-05	2.27E-04	4.42E-04	2.29E-05	3.69E-04	3.69E-04	1.51E-03	7.77E-05	2.27E-04	4.42E-04	2.29E-05	3.94E-05	3.69E-04	1.18E-03
7.89E-05	2.33E-04	4.55E-04	2.36E-05	3.83E-04	3.83E-04	1.56E-03	7.89E-05	2.33E-04	4.55E-04	2.36E-05	3.97E-05	3.83E-04	1.21E-03
8.06E-05	2.38E-04	4.69E-04	2.43E-05	3.96E-04	3.96E-04	1.60E-03	8.06E-05	2.38E-04	4.69E-04	2.43E-05	4.01E-05	3.96E-04	1.25E-03
8.14E-05	2.43E-04	4.84E-04	2.50E-05	4.12E-04	4.12E-04	1.66E-03	8.14E-05	2.43E-04	4.84E-04	2.50E-05	4.05E-05	4.12E-04	1.29E-03
8.30E-05	2.47E-04	4.99E-04	2.56E-05	4.33E-04	4.33E-04	1.72E-03	8.30E-05	2.47E-04	4.99E-04	2.56E-05	4.09E-05	4.33E-04	1.33E-03
8.46E-05	2.52E-04	5.17E-04	2.64E-05	4.54E-04	4.54E-04	1.79E-03	8.46E-05	2.52E-04	5.17E-04	2.64E-05	4.19E-05	4.54E-04	1.38E-03
8.62E-05	2.57E-04	5.34E-04	2.72E-05	4.80E-04	4.80E-04	1.86E-03	8.62E-05	2.57E-04	5.34E-04	2.72E-05	4.31E-05	4.80E-04	1.43E-03
8.79E-05	2.61E-04	5.53E-04	2.83E-05	5.05E-04	5.05E-04	1.94E-03	8.79E-05	2.61E-04	5.53E-04	2.83E-05	4.49E-05	5.05E-04	1.48E-03
8.95E-05	2.66E-04	5.73E-04	2.95E-05	5.31E-04	5.31E-04	2.02E-03	8.95E-05	2.66E-04	5.73E-04	2.95E-05	4.70E-05	5.31E-04	1.54E-03
9.07E-05	2.71E-04	5.95E-04	3.08E-05	5.55E-04	5.55E-04	2.10E-03	9.07E-05	2.71E-04	5.95E-04	3.08E-05	4.96E-05	5.55E-04	1.59E-03
9.19E-05	2.77E-04	6.19E-04	3.23E-05	5.69E-04	5.69E-04	2.16E-03	9.19E-05	2.77E-04	6.19E-04	3.23E-05	5.24E-05	5.69E-04	1.64E-03
9.03E-05	2.76E-04	6.31E-04	3.36E-05	5.53E-04	5.53E-04	2.14E-03	9.03E-05	2.76E-04	6.31E-04	3.36E-05	5.47E-05	5.53E-04	1.64E-03
9.51E-05	2.92E-04	6.73E-04	3.52E-05	6.26E-04	6.26E-04	2.35E-03	9.51E-05	2.92E-04	6.73E-04	3.52E-05	5.70E-05	6.26E-04	1.78E-03
9.80E-05	3.02E-04	7.00E-04	3.63E-05	6.72E-04	6.72E-04	2.48E-03	9.80E-05	3.02E-04	7.00E-04	3.63E-05	5.95E-05	6.72E-04	1.87E-03
1.01E-04	3.09E-04	7.23E-04	3.76E-05	7.06E-04	7.06E-04	2.58E-03	1.01E-04	3.09E-04	7.23E-04	3.76E-05	6.27E-05	7.06E-04	1.94E-03
1.03E-04	3.15E-04	7.49E-04	3.87E-05	7.36E-04	7.36E-04	2.68E-03	1.03E-04	3.15E-04	7.49E-04	3.87E-05	6.63E-05	7.36E-04	2.01E-03
1.06E-04	3.20E-04	7.78E-04	4.00E-05	7.62E-04	7.62E-04	2.77E-03	1.06E-04	3.20E-04	7.78E-04	4.00E-05	6.93E-05	7.62E-04	2.08E-03
1.09E-04	3.26E-04	8.04E-04	4.13E-05	7.85E-04	7.85E-04	2.85E-03	1.09E-04	3.26E-04	8.04E-04	4.13E-05	7.02E-05	7.85E-04	2.14E-03
1.12E-04	3.32E-04	8.28E-04	4.27E-05	8.11E-04	8.11E-04	2.94E-03	1.12E-04	3.32E-04	8.28E-04	4.27E-05	7.06E-05	8.11E-04	2.20E-03
1.15E-04	3.39E-04	8.52E-04	4.41E-05	8.41E-04	8.41E-04	3.03E-03	1.15E-04	3.39E-04	8.52E-04	4.41E-05	7.27E-05	8.41E-04	2.26E-03
1.17E-04	3.46E-04	8.69E-04	4.49E-05	8.70E-04	8.70E-04	3.12E-03	1.17E-04	3.46E-04	8.69E-04	4.49E-05	7.42E-05	8.70E-04	2.32E-03
1.20E-04	3.54E-04	8.78E-04	4.56E-05	8.99E-04	8.99E-04	3.20E-03	1.20E-04	3.54E-04	8.78E-04	4.56E-05	7.37E-05	8.99E-04	2.37E-03
1.22E-04	3.65E-04	8.80E-04	4.63E-05	9.31E-04	9.31E-04	3.28E-03	1.22E-04	3.65E-04	8.80E-04	4.63E-05	7.29E-05	9.31E-04	2.42E-03
1.26E-04	3.77E-04	8.73E-04	4.63E-05	9.69E-04	9.69E-04	3.36E-03	1.26E-04	3.77E-04	8.73E-04	4.63E-05	7.31E-05	9.69E-04	2.46E-03

1.29E-04	3.91E-04	8.67E-04	4.61E-05	1.01E-03	1.01E-03	3.45E-03	1.29E-04	3.91E-04	8.67E-04	4.61E-05	7.34E-05	1.01E-03	2.51E-03
1.32E-04	4.03E-04	8.60E-04	4.58E-05	1.04E-03	1.04E-03	3.53E-03	1.32E-04	4.03E-04	8.60E-04	4.58E-05	7.00E-05	1.04E-03	2.55E-03
1.36E-04	4.19E-04	8.58E-04	4.57E-05	1.09E-03	1.09E-03	3.63E-03	1.36E-04	4.19E-04	8.58E-04	4.57E-05	6.68E-05	1.09E-03	2.61E-03
1.39E-04	4.36E-04	8.51E-04	4.51E-05	1.08E-03	1.08E-03	3.63E-03	1.39E-04	4.36E-04	8.51E-04	4.51E-05	6.47E-05	1.08E-03	2.62E-03
1.43E-04	4.56E-04	8.41E-04	4.47E-05	1.08E-03	1.08E-03	3.64E-03	1.43E-04	4.56E-04	8.41E-04	4.47E-05	6.38E-05	1.08E-03	2.62E-03
1.48E-04	4.76E-04	8.32E-04	4.44E-05	1.07E-03	1.07E-03	3.65E-03	1.48E-04	4.76E-04	8.32E-04	4.44E-05	6.55E-05	1.07E-03	2.64E-03
1.54E-04	4.97E-04	8.27E-04	4.40E-05	1.08E-03	1.08E-03	3.69E-03	1.54E-04	4.97E-04	8.27E-04	4.40E-05	6.83E-05	1.08E-03	2.67E-03
1.60E-04	5.18E-04	8.29E-04	4.39E-05	1.07E-03	1.07E-03	3.69E-03	1.60E-04	5.18E-04	8.29E-04	4.39E-05	6.94E-05	1.07E-03	2.69E-03
1.66E-04	5.36E-04	8.35E-04	4.37E-05	1.05E-03	1.05E-03	3.67E-03	1.66E-04	5.36E-04	8.35E-04	4.37E-05	6.75E-05	1.05E-03	2.69E-03
1.73E-04	5.42E-04	8.37E-04	4.32E-05	1.06E-03	1.06E-03	3.71E-03	1.73E-04	5.42E-04	8.37E-04	4.32E-05	6.52E-05	1.06E-03	2.72E-03
1.79E-04	5.42E-04	8.40E-04	4.29E-05	1.08E-03	1.08E-03	3.75E-03	1.79E-04	5.42E-04	8.40E-04	4.29E-05	6.62E-05	1.08E-03	2.75E-03
1.86E-04	5.41E-04	8.47E-04	4.29E-05	1.08E-03	1.08E-03	3.78E-03	1.86E-04	5.41E-04	8.47E-04	4.29E-05	6.92E-05	1.08E-03	2.77E-03
1.93E-04	5.40E-04	8.60E-04	4.33E-05	1.10E-03	1.10E-03	3.84E-03	1.93E-04	5.40E-04	8.60E-04	4.33E-05	7.05E-05	1.10E-03	2.81E-03
1.99E-04	5.31E-04	8.68E-04	4.38E-05	1.13E-03	1.13E-03	3.90E-03	1.99E-04	5.31E-04	8.68E-04	4.38E-05	7.00E-05	1.13E-03	2.84E-03
1.98E-04	5.38E-04	8.90E-04	4.53E-05	1.17E-03	1.17E-03	4.02E-03	1.98E-04	5.38E-04	8.90E-04	4.53E-05	7.36E-05	1.17E-03	2.92E-03
1.76E-04	5.35E-04	9.08E-04	4.65E-05	1.18E-03	1.18E-03	4.02E-03	1.76E-04	5.35E-04	9.08E-04	4.65E-05	7.66E-05	1.18E-03	2.92E-03
1.56E-04	5.00E-04	9.14E-04	4.66E-05	1.09E-03	1.09E-03	3.80E-03	1.56E-04	5.00E-04	9.14E-04	4.66E-05	7.58E-05	1.09E-03	2.79E-03
1.61E-04	5.08E-04	9.49E-04	4.67E-05	1.06E-03	1.06E-03	3.79E-03	1.61E-04	5.08E-04	9.49E-04	4.67E-05	7.72E-05	1.06E-03	2.80E-03
1.74E-04	5.26E-04	9.40E-04	4.78E-05	1.07E-03	1.07E-03	3.82E-03	1.74E-04	5.26E-04	9.40E-04	4.78E-05	8.10E-05	1.07E-03	2.84E-03
1.89E-04	5.47E-04	9.03E-04	4.75E-05	1.10E-03	1.10E-03	3.88E-03	1.89E-04	5.47E-04	9.03E-04	4.75E-05	8.18E-05	1.10E-03	2.87E-03
1.95E-04	5.45E-04	8.62E-04	4.57E-05	1.12E-03	1.12E-03	3.89E-03	1.95E-04	5.45E-04	8.62E-04	4.57E-05	7.87E-05	1.12E-03	2.85E-03
2.00E-04	5.40E-04	8.37E-04	4.37E-05	1.13E-03	1.13E-03	3.89E-03	2.00E-04	5.40E-04	8.37E-04	4.37E-05	7.43E-05	1.13E-03	2.83E-03
2.01E-04	5.13E-04	8.29E-04	4.24E-05	1.14E-03	1.14E-03	3.86E-03	2.01E-04	5.13E-04	8.29E-04	4.24E-05	7.14E-05	1.14E-03	2.79E-03
2.28E-04	4.97E-04	8.22E-04	4.12E-05	1.15E-03	1.15E-03	3.88E-03	2.28E-04	4.97E-04	8.22E-04	4.12E-05	6.98E-05	1.15E-03	2.81E-03
2.57E-04	4.90E-04	8.19E-04	4.04E-05	1.14E-03	1.14E-03	3.89E-03	2.57E-04	4.90E-04	8.19E-04	4.04E-05	6.91E-05	1.14E-03	2.82E-03
2.65E-04	4.93E-04	8.25E-04	4.00E-05	1.12E-03	1.12E-03	3.87E-03	2.65E-04	4.93E-04	8.25E-04	4.00E-05	6.85E-05	1.12E-03	2.82E-03
2.61E-04	5.01E-04	8.41E-04	4.01E-05	1.10E-03	1.10E-03	3.85E-03	2.61E-04	5.01E-04	8.41E-04	4.01E-05	6.84E-05	1.10E-03	2.82E-03
2.53E-04	4.99E-04	8.54E-04	4.04E-05	1.08E-03	1.08E-03	3.80E-03	2.53E-04	4.99E-04	8.54E-04	4.04E-05	6.89E-05	1.08E-03	2.79E-03
7.21E-05	2.04E-04	3.86E-04	2.01E-05	3.24E-04	3.24E-04	1.33E-03	7.21E-05	2.04E-04	3.86E-04	2.01E-05	3.50E-05	3.24E-04	1.04E-03
7.29E-05	2.09E-04	3.97E-04	2.06E-05	3.32E-04	3.32E-04	1.36E-03	7.29E-05	2.09E-04	3.97E-04	2.06E-05	3.54E-05	3.32E-04	1.07E-03
7.45E-05	2.15E-04	4.07E-04	2.12E-05	3.43E-04	3.43E-04	1.40E-03	7.45E-05	2.15E-04	4.07E-04	2.12E-05	3.57E-05	3.43E-04	1.10E-03
7.57E-05	2.20E-04	4.18E-04	2.18E-05	3.54E-04	3.54E-04	1.44E-03	7.57E-05	2.20E-04	4.18E-04	2.18E-05	3.59E-05	3.54E-04	1.13E-03
7.69E-05	2.25E-04	4.29E-04	2.23E-05	3.69E-04	3.69E-04	1.49E-03	7.69E-05	2.25E-04	4.29E-04	2.23E-05	3.61E-05	3.69E-04	1.16E-03
7.81E-05	2.30E-04	4.41E-04	2.28E-05	3.85E-04	3.85E-04	1.54E-03	7.81E-05	2.30E-04	4.41E-04	2.28E-05	3.65E-05	3.85E-04	1.19E-03
7.93E-05	2.34E-04	4.55E-04	2.34E-05	4.03E-04	4.03E-04	1.60E-03	7.93E-05	2.34E-04	4.55E-04	2.34E-05	3.73E-05	4.03E-04	1.23E-03
8.06E-05	2.39E-04	4.68E-04	2.40E-05	4.24E-04	4.24E-04	1.66E-03	8.06E-05	2.39E-04	4.68E-04	2.40E-05	3.82E-05	4.24E-04	1.27E-03
8.18E-05	2.43E-04	4.83E-04	2.48E-05	4.45E-04	4.45E-04	1.72E-03	8.18E-05	2.43E-04	4.83E-04	2.48E-05	3.94E-05	4.45E-04	1.32E-03
8.34E-05	2.47E-04	4.98E-04	2.56E-05	4.66E-04	4.66E-04	1.79E-03	8.34E-05	2.47E-04	4.98E-04	2.56E-05	4.09E-05	4.66E-04	1.36E-03
8.46E-05	2.51E-04	5.15E-04	2.67E-05	4.84E-04	4.84E-04	1.85E-03	8.46E-05	2.51E-04	5.15E-04	2.67E-05	4.26E-05	4.84E-04	1.40E-03
8.62E-05	2.56E-04	5.34E-04	2.78E-05	5.03E-04	5.03E-04	1.91E-03	8.62E-05	2.56E-04	5.34E-04	2.78E-05	4.47E-05	5.03E-04	1.45E-03
8.83E-05	2.61E-04	5.55E-04	2.89E-05	5.26E-04	5.26E-04	1.98E-03	8.83E-05	2.61E-04	5.55E-04	2.89E-05	4.68E-05	5.26E-04	1.51E-03
8.99E-05	2.67E-04	5.79E-04	3.00E-05	5.49E-04	5.49E-04	2.06E-03	8.99E-05	2.67E-04	5.79E-04	3.00E-05	4.87E-05	5.49E-04	1.56E-03
9.11E-05	2.74E-04	6.03E-04	3.12E-05	5.75E-04	5.75E-04	2.15E-03	9.11E-05	2.74E-04	6.03E-04	3.12E-05	5.05E-05	5.75E-04	1.62E-03
9.27E-05	2.81E-04	6.26E-04	3.24E-05	6.00E-04	6.00E-04	2.23E-03	9.27E-05	2.81E-04	6.26E-04	3.24E-05	5.28E-05	6.00E-04	1.69E-03
9.43E-05	2.88E-04	6.46E-04	3.35E-05	6.26E-04	6.26E-04	2.31E-03	9.43E-05	2.88E-04	6.46E-04	3.35E-05	5.56E-05	6.26E-04	1.74E-03
9.64E-05	2.92E-04	6.68E-04	3.48E-05	6.48E-04	6.48E-04	2.39E-03	9.64E-05	2.92E-04	6.68E-04	3.48E-05	5.89E-05	6.48E-04	1.80E-03
9.80E-05	2.96E-04	6.93E-04	3.60E-05	6.68E-04	6.68E-04	2.46E-03	9.80E-05	2.96E-04	6.93E-04	3.60E-05	6.20E-05	6.68E-04	1.85E-03
1.00E-04	2.99E-04	7.13E-04	3.68E-05	6.84E-04	6.84E-04	2.52E-03	1.00E-04	2.99E-04	7.13E-04	3.68E-05	6.31E-05	6.84E-04	1.90E-03
1.03E-04	3.04E-04	7.34E-04	3.78E-05	7.00E-04	7.00E-04	2.58E-03	1.03E-04	3.04E-04	7.34E-04	3.78E-05	6.32E-05	7.00E-04	1.94E-03
1.06E-04	3.09E-04	7.55E-04	3.90E-05	7.24E-04	7.24E-04	2.66E-03	1.06E-04	3.09E-04	7.55E-04	3.90E-05	6.42E-05	7.24E-04	2.00E-03
1.08E-04	3.14E-04	7.72E-04	4.00E-05	7.51E-04	7.51E-04	2.74E-03	1.08E-04	3.14E-04	7.72E-04	4.00E-05	6.58E-05	7.51E-04	2.05E-03
1.10E-04	3.19E-04	7.84E-04	4.07E-05	7.78E-04	7.78E-04	2.81E-03	1.10E-04	3.19E-04	7.84E-04	4.07E-05	6.65E-05	7.78E-04	2.10E-03
1.12E-04	3.25E-04	7.88E-04	4.12E-05	8.05E-04	8.05E-04	2.88E-03	1.12E-04	3.25E-04	7.88E-04	4.12E-05	6.56E-05	8.05E-04	2.14E-03
1.15E-04	3.34E-04	7.85E-04	4.15E-05	8.36E-04	8.36E-04	2.95E-03	1.15E-04	3.34E-04	7.85E-04	4.15E-05	6.51E-05	8.36E-04	2.18E-03

1.17E-04	3.44E-04	7.80E-04	4.16E-05	8.62E-04	8.62E-04	3.01E-03	1.17E-04	3.44E-04	7.80E-04	4.16E-05	6.62E-05	8.62E-04	2.21E-03
1.20E-04	3.54E-04	7.71E-04	4.14E-05	8.84E-04	8.84E-04	3.05E-03	1.20E-04	3.54E-04	7.71E-04	4.14E-05	6.58E-05	8.84E-04	2.24E-03
1.23E-04	3.67E-04	7.65E-04	4.12E-05	9.14E-04	9.14E-04	3.12E-03	1.23E-04	3.67E-04	7.65E-04	4.12E-05	6.26E-05	9.14E-04	2.27E-03
1.27E-04	3.82E-04	7.63E-04	4.08E-05	9.36E-04	9.36E-04	3.18E-03	1.27E-04	3.82E-04	7.63E-04	4.08E-05	6.00E-05	9.36E-04	2.31E-03
1.30E-04	3.99E-04	7.60E-04	4.04E-05	9.23E-04	9.23E-04	3.17E-03	1.30E-04	3.99E-04	7.60E-04	4.04E-05	5.82E-05	9.23E-04	2.31E-03
1.33E-04	4.13E-04	7.52E-04	4.02E-05	9.24E-04	9.24E-04	3.19E-03	1.33E-04	4.13E-04	7.52E-04	4.02E-05	5.72E-05	9.24E-04	2.32E-03
1.36E-04	4.28E-04	7.46E-04	4.00E-05	9.15E-04	9.15E-04	3.18E-03	1.36E-04	4.28E-04	7.46E-04	4.00E-05	5.86E-05	9.15E-04	2.32E-03
1.40E-04	4.45E-04	7.42E-04	3.97E-05	9.19E-04	9.19E-04	3.20E-03	1.40E-04	4.45E-04	7.42E-04	3.97E-05	6.14E-05	9.19E-04	2.35E-03
1.45E-04	4.59E-04	7.40E-04	3.95E-05	9.10E-04	9.10E-04	3.20E-03	1.45E-04	4.59E-04	7.40E-04	3.95E-05	6.28E-05	9.10E-04	2.36E-03
1.49E-04	4.70E-04	7.46E-04	3.95E-05	8.95E-04	8.95E-04	3.20E-03	1.49E-04	4.70E-04	7.46E-04	3.95E-05	6.19E-05	8.95E-04	2.36E-03
1.52E-04	4.73E-04	7.49E-04	3.91E-05	8.99E-04	8.99E-04	3.21E-03	1.52E-04	4.73E-04	7.49E-04	3.91E-05	5.94E-05	8.99E-04	2.37E-03
1.56E-04	4.70E-04	7.51E-04	3.88E-05	9.13E-04	9.13E-04	3.24E-03	1.56E-04	4.70E-04	7.51E-04	3.88E-05	5.89E-05	9.13E-04	2.39E-03
1.61E-04	4.69E-04	7.56E-04	3.87E-05	9.19E-04	9.19E-04	3.26E-03	1.61E-04	4.69E-04	7.56E-04	3.87E-05	6.11E-05	9.19E-04	2.40E-03
1.65E-04	4.71E-04	7.69E-04	3.91E-05	9.34E-04	9.34E-04	3.31E-03	1.65E-04	4.71E-04	7.69E-04	3.91E-05	6.41E-05	9.34E-04	2.44E-03
1.57E-04	4.72E-04	8.01E-04	4.10E-05	9.55E-04	9.55E-04	3.38E-03	1.57E-04	4.72E-04	8.01E-04	4.10E-05	6.64E-05	9.55E-04	2.49E-03
9.51E-05	2.19E-04	4.92E-04	2.97E-05	4.14E-04	4.14E-04	1.66E-03	9.51E-05	2.19E-04	4.92E-04	2.97E-05	4.94E-05	4.14E-04	1.30E-03
1.19E-04	3.61E-04	7.51E-04	4.06E-05	7.88E-04	7.88E-04	2.85E-03	1.19E-04	3.61E-04	7.51E-04	4.06E-05	6.89E-05	7.88E-04	2.13E-03
9.88E-05	2.49E-04	5.70E-04	3.46E-05	5.74E-04	5.74E-04	2.10E-03	9.88E-05	2.49E-04	5.70E-04	3.46E-05	6.14E-05	5.74E-04	1.59E-03
1.12E-04	3.36E-04	7.48E-04	3.91E-05	7.69E-04	7.69E-04	2.77E-03	1.12E-04	3.36E-04	7.48E-04	3.91E-05	6.39E-05	7.69E-04	2.07E-03
1.28E-04	4.09E-04	8.41E-04	4.14E-05	8.51E-04	8.51E-04	3.12E-03	1.28E-04	4.09E-04	8.41E-04	4.14E-05	6.83E-05	8.51E-04	2.34E-03
1.42E-04	4.43E-04	8.51E-04	4.30E-05	8.90E-04	8.90E-04	3.26E-03	1.42E-04	4.43E-04	8.51E-04	4.30E-05	7.30E-05	8.90E-04	2.44E-03
1.54E-04	4.69E-04	8.15E-04	4.28E-05	9.22E-04	9.22E-04	3.32E-03	1.54E-04	4.69E-04	8.15E-04	4.28E-05	7.41E-05	9.22E-04	2.48E-03
1.55E-04	4.71E-04	7.78E-04	4.14E-05	9.42E-04	9.42E-04	3.33E-03	1.55E-04	4.71E-04	7.78E-04	4.14E-05	7.17E-05	9.42E-04	2.46E-03
1.55E-04	4.68E-04	7.53E-04	3.96E-05	9.56E-04	9.56E-04	3.33E-03	1.55E-04	4.68E-04	7.53E-04	3.96E-05	6.79E-05	9.56E-04	2.44E-03
1.63E-04	4.47E-04	7.41E-04	3.82E-05	9.68E-04	9.68E-04	3.33E-03	1.63E-04	4.47E-04	7.41E-04	3.82E-05	6.47E-05	9.68E-04	2.42E-03
1.68E-04	4.31E-04	7.37E-04	3.73E-05	9.77E-04	9.77E-04	3.33E-03	1.68E-04	4.31E-04	7.37E-04	3.73E-05	6.34E-05	9.77E-04	2.41E-03
1.83E-04	4.23E-04	7.34E-04	3.66E-05	9.85E-04	9.85E-04	3.35E-03	1.83E-04	4.23E-04	7.34E-04	3.66E-05	6.28E-05	9.85E-04	2.42E-03
1.85E-04	4.27E-04	7.44E-04	3.67E-05	9.89E-04	9.89E-04	3.37E-03	1.85E-04	4.27E-04	7.44E-04	3.67E-05	6.33E-05	9.89E-04	2.45E-03
1.96E-04	4.30E-04	7.48E-04	3.62E-05	9.73E-04	9.73E-04	3.36E-03	1.96E-04	4.30E-04	7.48E-04	3.62E-05	6.23E-05	9.73E-04	2.45E-03
7.00E-05	1.99E-04	3.67E-04	1.91E-05	3.11E-04	3.11E-04	1.28E-03	7.00E-05	1.99E-04	3.67E-04	1.91E-05	3.22E-05	3.11E-04	9.99E-04
7.13E-05	2.04E-04	3.77E-04	1.96E-05	3.20E-04	3.20E-04	1.31E-03	7.13E-05	2.04E-04	3.77E-04	1.96E-05	3.24E-05	3.20E-04	1.02E-03
7.21E-05	2.09E-04	3.85E-04	2.01E-05	3.31E-04	3.31E-04	1.35E-03	7.21E-05	2.09E-04	3.85E-04	2.01E-05	3.25E-05	3.31E-04	1.05E-03
7.37E-05	2.14E-04	3.95E-04	2.05E-05	3.44E-04	3.44E-04	1.39E-03	7.37E-05	2.14E-04	3.95E-04	2.05E-05	3.29E-05	3.44E-04	1.08E-03
7.45E-05	2.18E-04	4.04E-04	2.09E-05	3.61E-04	3.61E-04	1.44E-03	7.45E-05	2.18E-04	4.04E-04	2.09E-05	3.33E-05	3.61E-04	1.11E-03
7.57E-05	2.22E-04	4.14E-04	2.14E-05	3.78E-04	3.78E-04	1.49E-03	7.57E-05	2.22E-04	4.14E-04	2.14E-05	3.41E-05	3.78E-04	1.14E-03
7.65E-05	2.26E-04	4.26E-04	2.19E-05	3.95E-04	3.95E-04	1.54E-03	7.65E-05	2.26E-04	4.26E-04	2.19E-05	3.51E-05	3.95E-04	1.18E-03
7.77E-05	2.30E-04	4.38E-04	2.26E-05	4.12E-04	4.12E-04	1.59E-03	7.77E-05	2.30E-04	4.38E-04	2.26E-05	3.62E-05	4.12E-04	1.22E-03
7.89E-05	2.34E-04	4.51E-04	2.34E-05	4.26E-04	4.26E-04	1.64E-03	7.89E-05	2.34E-04	4.51E-04	2.34E-05	3.74E-05	4.26E-04	1.25E-03
8.06E-05	2.37E-04	4.65E-04	2.42E-05	4.41E-04	4.41E-04	1.69E-03	8.06E-05	2.37E-04	4.65E-04	2.42E-05	3.87E-05	4.41E-04	1.29E-03
8.18E-05	2.41E-04	4.82E-04	2.52E-05	4.56E-04	4.56E-04	1.74E-03	8.18E-05	2.41E-04	4.82E-04	2.52E-05	4.04E-05	4.56E-04	1.33E-03
8.30E-05	2.47E-04	5.02E-04	2.63E-05	4.74E-04	4.74E-04	1.81E-03	8.30E-05	2.47E-04	5.02E-04	2.63E-05	4.24E-05	4.74E-04	1.37E-03
8.46E-05	2.51E-04	5.22E-04	2.71E-05	4.95E-04	4.95E-04	1.87E-03	8.46E-05	2.51E-04	5.22E-04	2.71E-05	4.40E-05	4.95E-04	1.42E-03
8.58E-05	2.56E-04	5.43E-04	2.81E-05	5.16E-04	5.16E-04	1.95E-03	8.58E-05	2.56E-04	5.43E-04	2.81E-05	4.55E-05	5.16E-04	1.48E-03
8.70E-05	2.61E-04	5.63E-04	2.91E-05	5.38E-04	5.38E-04	2.02E-03	8.70E-05	2.61E-04	5.63E-04	2.91E-05	4.73E-05	5.38E-04	1.53E-03
8.87E-05	2.66E-04	5.81E-04	3.02E-05	5.58E-04	5.58E-04	2.08E-03	8.87E-05	2.66E-04	5.81E-04	3.02E-05	4.98E-05	5.58E-04	1.57E-03
9.03E-05	2.71E-04	5.99E-04	3.12E-05	5.74E-04	5.74E-04	2.14E-03	9.03E-05	2.71E-04	5.99E-04	3.12E-05	5.25E-05	5.74E-04	1.62E-03
9.19E-05	2.73E-04	6.17E-04	3.22E-05	5.87E-04	5.87E-04	2.19E-03	9.19E-05	2.73E-04	6.17E-04	3.22E-05	5.51E-05	5.87E-04	1.66E-03
9.35E-05	2.77E-04	6.39E-04	3.32E-05	6.00E-04	6.00E-04	2.24E-03	9.35E-05	2.77E-04	6.39E-04	3.32E-05	5.71E-05	6.00E-04	1.70E-03
9.51E-05	2.80E-04	6.57E-04	3.40E-05	6.13E-04	6.13E-04	2.29E-03	9.51E-05	2.80E-04	6.57E-04	3.40E-05	5.74E-05	6.13E-04	1.74E-03
9.80E-05	2.84E-04	6.74E-04	3.49E-05	6.33E-04	6.33E-04	2.36E-03	9.80E-05	2.84E-04	6.74E-04	3.49E-05	5.76E-05	6.33E-04	1.78E-03
1.00E-04	2.87E-04	6.88E-04	3.57E-05	6.57E-04	6.57E-04	2.42E-03	1.00E-04	2.87E-04	6.88E-04	3.57E-05	5.85E-05	6.57E-04	1.83E-03
1.02E-04	2.91E-04	7.01E-04	3.65E-05	6.79E-04	6.79E-04	2.49E-03	1.02E-04	2.91E-04	7.01E-04	3.65E-05	5.96E-05	6.79E-04	1.87E-03
1.04E-04	2.94E-04	7.10E-04	3.71E-05	7.03E-04	7.03E-04	2.55E-03	1.04E-04	2.94E-04	7.10E-04	3.71E-05	5.98E-05	7.03E-04	1.91E-03
1.06E-04	2.99E-04	7.12E-04	3.75E-05	7.32E-04	7.32E-04	2.62E-03	1.06E-04	2.99E-04	7.12E-04	3.75E-05	5.89E-05	7.32E-04	1.94E-03

1.08E-04	3.05E-04	7.07E-04	3.76E-05	7.54E-04	7.54E-04	2.66E-03	1.08E-04	3.05E-04	7.07E-04	3.76E-05	5.90E-05	7.54E-04	1.97E-03
1.10E-04	3.15E-04	7.01E-04	3.76E-05	7.68E-04	7.68E-04	2.70E-03	1.10E-04	3.15E-04	7.01E-04	3.76E-05	6.02E-05	7.68E-04	1.99E-03
1.13E-04	3.27E-04	6.93E-04	3.75E-05	7.84E-04	7.84E-04	2.74E-03	1.13E-04	3.27E-04	6.93E-04	3.75E-05	5.95E-05	7.84E-04	2.01E-03
1.15E-04	3.41E-04	6.90E-04	3.74E-05	8.08E-04	8.08E-04	2.80E-03	1.15E-04	3.41E-04	6.90E-04	3.74E-05	5.67E-05	8.08E-04	2.05E-03
1.17E-04	3.53E-04	6.86E-04	3.69E-05	8.10E-04	8.10E-04	2.81E-03	1.17E-04	3.53E-04	6.86E-04	3.69E-05	5.45E-05	8.10E-04	2.06E-03
1.19E-04	3.65E-04	6.82E-04	3.66E-05	8.02E-04	8.02E-04	2.81E-03	1.19E-04	3.65E-04	6.82E-04	3.66E-05	5.26E-05	8.02E-04	2.06E-03
1.21E-04	3.75E-04	6.77E-04	3.64E-05	8.05E-04	8.05E-04	2.82E-03	1.21E-04	3.75E-04	6.77E-04	3.64E-05	5.15E-05	8.05E-04	2.07E-03
1.23E-04	3.88E-04	6.72E-04	3.61E-05	7.93E-04	7.93E-04	2.81E-03	1.23E-04	3.88E-04	6.72E-04	3.61E-05	5.26E-05	7.93E-04	2.07E-03
1.26E-04	4.00E-04	6.69E-04	3.59E-05	7.92E-04	7.92E-04	2.82E-03	1.26E-04	4.00E-04	6.69E-04	3.59E-05	5.53E-05	7.92E-04	2.08E-03
1.30E-04	4.09E-04	6.69E-04	3.60E-05	7.86E-04	7.86E-04	2.82E-03	1.30E-04	4.09E-04	6.69E-04	3.60E-05	5.71E-05	7.86E-04	2.09E-03
1.33E-04	4.16E-04	6.72E-04	3.59E-05	7.77E-04	7.77E-04	2.81E-03	1.33E-04	4.16E-04	6.72E-04	3.59E-05	5.69E-05	7.77E-04	2.09E-03
1.35E-04	4.17E-04	6.75E-04	3.56E-05	7.80E-04	7.80E-04	2.82E-03	1.35E-04	4.17E-04	6.75E-04	3.56E-05	5.48E-05	7.80E-04	2.10E-03
1.38E-04	4.14E-04	6.77E-04	3.52E-05	7.88E-04	7.88E-04	2.84E-03	1.38E-04	4.14E-04	6.77E-04	3.52E-05	5.33E-05	7.88E-04	2.10E-03
1.41E-04	4.14E-04	6.80E-04	3.51E-05	7.94E-04	7.94E-04	2.86E-03	1.41E-04	4.14E-04	6.80E-04	3.51E-05	5.43E-05	7.94E-04	2.12E-03
1.22E-04	3.93E-04	7.02E-04	3.69E-05	7.55E-04	7.55E-04	2.76E-03	1.22E-04	3.93E-04	7.02E-04	3.69E-05	6.02E-05	7.55E-04	2.07E-03
1.39E-04	4.14E-04	7.17E-04	3.70E-05	8.18E-04	8.18E-04	2.94E-03	1.39E-04	4.14E-04	7.17E-04	3.70E-05	6.09E-05	8.18E-04	2.19E-03
1.20E-04	3.73E-04	7.14E-04	3.77E-05	7.54E-04	7.54E-04	2.75E-03	1.20E-04	3.73E-04	7.14E-04	3.77E-05	6.09E-05	7.54E-04	2.06E-03
7.57E-05	1.55E-04	2.92E-04	1.84E-05	2.70E-04	2.70E-04	1.08E-03	7.57E-05	1.55E-04	2.92E-04	1.84E-05	3.04E-05	2.70E-04	8.43E-04
8.18E-05	1.89E-04	3.93E-04	2.52E-05	3.73E-04	3.73E-04	1.43E-03	8.18E-05	1.89E-04	3.93E-04	2.52E-05	4.43E-05	3.73E-04	1.11E-03
7.93E-05	1.84E-04	3.76E-04	2.40E-05	3.82E-04	3.82E-04	1.43E-03	7.93E-05	1.84E-04	3.76E-04	2.40E-05	4.21E-05	3.82E-04	1.09E-03
1.02E-04	3.22E-04	6.90E-04	3.58E-05	7.11E-04	7.11E-04	2.57E-03	1.02E-04	3.22E-04	6.90E-04	3.58E-05	5.81E-05	7.11E-04	1.92E-03
1.16E-04	3.79E-04	7.64E-04	3.76E-05	7.74E-04	7.74E-04	2.84E-03	1.16E-04	3.79E-04	7.64E-04	3.76E-05	6.24E-05	7.74E-04	2.13E-03
1.21E-04	3.94E-04	7.70E-04	3.88E-05	7.79E-04	7.79E-04	2.88E-03	1.21E-04	3.94E-04	7.70E-04	3.88E-05	6.62E-05	7.79E-04	2.17E-03
1.27E-04	4.11E-04	7.40E-04	3.88E-05	7.95E-04	7.95E-04	2.91E-03	1.27E-04	4.11E-04	7.40E-04	3.88E-05	6.73E-05	7.95E-04	2.18E-03
1.36E-04	4.13E-04	7.06E-04	3.74E-05	8.16E-04	8.16E-04	2.92E-03	1.36E-04	4.13E-04	7.06E-04	3.74E-05	6.53E-05	8.16E-04	2.17E-03
1.29E-04	4.12E-04	6.82E-04	3.61E-05	8.18E-04	8.18E-04	2.89E-03	1.29E-04	4.12E-04	6.82E-04	3.61E-05	6.23E-05	8.18E-04	2.14E-03
1.30E-04	3.95E-04	6.70E-04	3.49E-05	8.29E-04	8.29E-04	2.89E-03	1.30E-04	3.95E-04	6.70E-04	3.49E-05	5.94E-05	8.29E-04	2.12E-03
1.34E-04	3.80E-04	6.65E-04	3.39E-05	8.42E-04	8.42E-04	2.90E-03	1.34E-04	3.80E-04	6.65E-04	3.39E-05	5.77E-05	8.42E-04	2.11E-03
1.40E-04	3.74E-04	6.64E-04	3.35E-05	8.52E-04	8.52E-04	2.92E-03	1.40E-04	3.74E-04	6.64E-04	3.35E-05	5.74E-05	8.52E-04	2.12E-03
1.51E-04	3.70E-04	6.64E-04	3.31E-05	8.61E-04	8.61E-04	2.94E-03	1.51E-04	3.70E-04	6.64E-04	3.31E-05	5.73E-05	8.61E-04	2.14E-03
6.80E-05	1.93E-04	3.48E-04	1.81E-05	3.01E-04	3.01E-04	1.23E-03	6.80E-05	1.93E-04	3.48E-04	1.81E-05	2.94E-05	3.01E-04	9.58E-04
6.88E-05	1.98E-04	3.56E-04	1.85E-05	3.12E-04	3.12E-04	1.26E-03	6.88E-05	1.98E-04	3.56E-04	1.85E-05	2.96E-05	3.12E-04	9.82E-04
6.96E-05	2.02E-04	3.63E-04	1.89E-05	3.25E-04	3.25E-04	1.30E-03	6.96E-05	2.02E-04	3.63E-04	1.89E-05	3.01E-05	3.25E-04	1.01E-03
7.13E-05	2.07E-04	3.72E-04	1.94E-05	3.38E-04	3.38E-04	1.34E-03	7.13E-05	2.07E-04	3.72E-04	1.94E-05	3.09E-05	3.38E-04	1.04E-03
7.21E-05	2.10E-04	3.79E-04	1.97E-05	3.53E-04	3.53E-04	1.39E-03	7.21E-05	2.10E-04	3.79E-04	1.97E-05	3.16E-05	3.53E-04	1.07E-03
7.29E-05	2.14E-04	3.88E-04	2.02E-05	3.66E-04	3.66E-04	1.43E-03	7.29E-05	2.14E-04	3.88E-04	2.02E-05	3.25E-05	3.66E-04	1.09E-03
7.41E-05	2.17E-04	3.99E-04	2.07E-05	3.78E-04	3.78E-04	1.47E-03	7.41E-05	2.17E-04	3.99E-04	2.07E-05	3.34E-05	3.78E-04	1.12E-03
7.49E-05	2.21E-04	4.10E-04	2.14E-05	3.90E-04	3.90E-04	1.51E-03	7.49E-05	2.21E-04	4.10E-04	2.14E-05	3.44E-05	3.90E-04	1.15E-03
7.65E-05	2.25E-04	4.22E-04	2.21E-05	4.02E-04	4.02E-04	1.55E-03	7.65E-05	2.25E-04	4.22E-04	2.21E-05	3.54E-05	4.02E-04	1.18E-03
7.73E-05	2.28E-04	4.37E-04	2.30E-05	4.15E-04	4.15E-04	1.60E-03	7.73E-05	2.28E-04	4.37E-04	2.30E-05	3.68E-05	4.15E-04	1.22E-03
7.89E-05	2.34E-04	4.58E-04	2.42E-05	4.28E-04	4.28E-04	1.65E-03	7.89E-05	2.34E-04	4.58E-04	2.42E-05	3.89E-05	4.28E-04	1.26E-03
7.73E-05	2.34E-04	4.65E-04	2.50E-05	4.14E-04	4.14E-04	1.63E-03	7.73E-05	2.34E-04	4.65E-04	2.50E-05	4.08E-05	4.14E-04	1.26E-03
8.14E-05	2.41E-04	4.96E-04	2.58E-05	4.64E-04	4.64E-04	1.77E-03	8.14E-05	2.41E-04	4.96E-04	2.58E-05	4.19E-05	4.64E-04	1.35E-03
8.30E-05	2.44E-04	5.11E-04	2.65E-05	4.84E-04	4.84E-04	1.83E-03	8.30E-05	2.44E-04	5.11E-04	2.65E-05	4.29E-05	4.84E-04	1.39E-03
8.38E-05	2.48E-04	5.29E-04	2.74E-05	5.00E-04	5.00E-04	1.89E-03	8.38E-05	2.48E-04	5.29E-04	2.74E-05	4.50E-05	5.00E-04	1.43E-03
8.54E-05	2.51E-04	5.42E-04	2.83E-05	5.12E-04	5.12E-04	1.93E-03	8.54E-05	2.51E-04	5.42E-04	2.83E-05	4.73E-05	5.12E-04	1.47E-03
8.66E-05	2.54E-04	5.57E-04	2.92E-05	5.20E-04	5.20E-04	1.97E-03	8.66E-05	2.54E-04	5.57E-04	2.92E-05	4.95E-05	5.20E-04	1.50E-03
8.79E-05	2.57E-04	5.74E-04	3.01E-05	5.30E-04	5.30E-04	2.01E-03	8.79E-05	2.57E-04	5.74E-04	3.01E-05	5.15E-05	5.30E-04	1.53E-03
8.95E-05	2.59E-04	5.90E-04	3.07E-05	5.43E-04	5.43E-04	2.06E-03	8.95E-05	2.59E-04	5.90E-04	3.07E-05	5.22E-05	5.43E-04	1.56E-03
9.11E-05	2.61E-04	6.05E-04	3.13E-05	5.61E-04	5.61E-04	2.11E-03	9.11E-05	2.61E-04	6.05E-04	3.13E-05	5.23E-05	5.61E-04	1.60E-03
9.31E-05	2.64E-04	6.19E-04	3.21E-05	5.80E-04	5.80E-04	2.17E-03	9.31E-05	2.64E-04	6.19E-04	3.21E-05	5.27E-05	5.80E-04	1.64E-03
9.47E-05	2.67E-04	6.30E-04	3.28E-05	5.98E-04	5.98E-04	2.22E-03	9.47E-05	2.67E-04	6.30E-04	3.28E-05	5.34E-05	5.98E-04	1.68E-03
9.59E-05	2.68E-04	6.39E-04	3.35E-05	6.17E-04	6.17E-04	2.27E-03	9.59E-05	2.68E-04	6.39E-04	3.35E-05	5.42E-05	6.17E-04	1.71E-03
9.76E-05	2.71E-04	6.44E-04	3.39E-05	6.43E-04	6.43E-04	2.33E-03	9.76E-05	2.71E-04	6.44E-04	3.39E-05	5.39E-05	6.43E-04	1.74E-03

9.92E-05	2.76E-04	6.45E-04	3.41E-05	6.69E-04	6.69E-04	2.39E-03	9.92E-05	2.76E-04	6.45E-04	3.41E-05	5.34E-05	6.69E-04	1.78E-03
1.01E-04	2.84E-04	6.41E-04	3.42E-05	6.80E-04	6.80E-04	2.42E-03	1.01E-04	2.84E-04	6.41E-04	3.42E-05	5.41E-05	6.80E-04	1.79E-03
1.02E-04	2.94E-04	6.35E-04	3.43E-05	6.88E-04	6.88E-04	2.44E-03	1.02E-04	2.94E-04	6.35E-04	3.43E-05	5.50E-05	6.88E-04	1.81E-03
1.04E-04	3.05E-04	6.29E-04	3.43E-05	7.03E-04	7.03E-04	2.48E-03	1.04E-04	3.05E-04	6.29E-04	3.43E-05	5.41E-05	7.03E-04	1.83E-03
1.06E-04	3.17E-04	6.25E-04	3.41E-05	7.14E-04	7.14E-04	2.51E-03	1.06E-04	3.17E-04	6.25E-04	3.41E-05	5.17E-05	7.14E-04	1.85E-03
1.08E-04	3.27E-04	6.21E-04	3.36E-05	7.06E-04	7.06E-04	2.50E-03	1.08E-04	3.27E-04	6.21E-04	3.36E-05	4.97E-05	7.06E-04	1.85E-03
1.10E-04	3.36E-04	6.18E-04	3.34E-05	7.08E-04	7.08E-04	2.51E-03	1.10E-04	3.36E-04	6.18E-04	3.34E-05	4.81E-05	7.08E-04	1.85E-03
1.11E-04	3.44E-04	6.14E-04	3.32E-05	7.10E-04	7.10E-04	2.52E-03	1.11E-04	3.44E-04	6.14E-04	3.32E-05	4.68E-05	7.10E-04	1.86E-03
1.13E-04	3.54E-04	6.10E-04	3.30E-05	6.99E-04	6.99E-04	2.51E-03	1.13E-04	3.54E-04	6.10E-04	3.30E-05	4.76E-05	6.99E-04	1.86E-03
1.15E-04	3.62E-04	6.08E-04	3.28E-05	6.95E-04	6.95E-04	2.51E-03	1.15E-04	3.62E-04	6.08E-04	3.28E-05	5.02E-05	6.95E-04	1.86E-03
1.17E-04	3.68E-04	6.09E-04	3.29E-05	6.88E-04	6.88E-04	2.50E-03	1.17E-04	3.68E-04	6.09E-04	3.29E-05	5.21E-05	6.88E-04	1.87E-03
1.20E-04	3.73E-04	6.12E-04	3.29E-05	6.82E-04	6.82E-04	2.50E-03	1.20E-04	3.73E-04	6.12E-04	3.29E-05	5.25E-05	6.82E-04	1.87E-03
1.23E-04	3.74E-04	6.15E-04	3.28E-05	6.88E-04	6.88E-04	2.52E-03	1.23E-04	3.74E-04	6.15E-04	3.28E-05	5.11E-05	6.88E-04	1.88E-03
1.25E-04	3.74E-04	6.20E-04	3.27E-05	6.97E-04	6.97E-04	2.55E-03	1.25E-04	3.74E-04	6.20E-04	3.27E-05	4.96E-05	6.97E-04	1.90E-03
1.13E-04	3.62E-04	6.33E-04	3.36E-05	6.68E-04	6.68E-04	2.48E-03	1.13E-04	3.62E-04	6.33E-04	3.36E-05	5.10E-05	6.68E-04	1.86E-03
1.08E-04	3.45E-04	6.30E-04	3.35E-05	6.47E-04	6.47E-04	2.41E-03	1.08E-04	3.45E-04	6.30E-04	3.35E-05	5.32E-05	6.47E-04	1.82E-03
1.06E-04	3.35E-04	6.31E-04	3.36E-05	6.36E-04	6.36E-04	2.38E-03	1.06E-04	3.35E-04	6.31E-04	3.36E-05	5.60E-05	6.36E-04	1.80E-03
1.08E-04	3.32E-04	6.39E-04	3.41E-05	6.53E-04	6.53E-04	2.42E-03	1.08E-04	3.32E-04	6.39E-04	3.41E-05	5.62E-05	6.53E-04	1.82E-03
9.27E-05	2.64E-04	5.77E-04	3.17E-05	4.98E-04	4.98E-04	1.96E-03	9.27E-05	2.64E-04	5.77E-04	3.17E-05	5.08E-05	4.98E-04	1.51E-03
7.98E-05	2.06E-04	4.57E-04	2.69E-05	3.79E-04	3.79E-04	1.53E-03	7.98E-05	2.06E-04	4.57E-04	2.69E-05	4.58E-05	3.79E-04	1.19E-03
7.29E-05	1.73E-04	3.46E-04	2.24E-05	3.26E-04	3.26E-04	1.27E-03	7.29E-05	1.73E-04	3.46E-04	2.24E-05	3.90E-05	3.26E-04	9.80E-04
8.14E-05	2.33E-04	5.09E-04	3.02E-05	5.16E-04	5.16E-04	1.89E-03	8.14E-05	2.33E-04	5.09E-04	3.02E-05	5.29E-05	5.16E-04	1.42E-03
9.19E-05	3.06E-04	6.35E-04	3.28E-05	6.54E-04	6.54E-04	2.37E-03	9.19E-05	3.06E-04	6.35E-04	3.28E-05	5.30E-05	6.54E-04	1.77E-03
9.96E-05	3.37E-04	6.92E-04	3.41E-05	6.84E-04	6.84E-04	2.53E-03	9.96E-05	3.37E-04	6.92E-04	3.41E-05	5.66E-05	6.84E-04	1.90E-03
1.04E-04	3.51E-04	7.01E-04	3.53E-05	6.85E-04	6.85E-04	2.56E-03	1.04E-04	3.51E-04	7.01E-04	3.53E-05	6.03E-05	6.85E-04	1.94E-03
1.12E-04	3.67E-04	6.75E-04	3.53E-05	7.02E-04	7.02E-04	2.59E-03	1.12E-04	3.67E-04	6.75E-04	3.53E-05	6.14E-05	7.02E-04	1.95E-03
1.06E-04	3.65E-04	6.42E-04	3.46E-05	6.98E-04	6.98E-04	2.54E-03	1.06E-04	3.65E-04	6.42E-04	3.46E-05	6.04E-05	6.98E-04	1.91E-03
1.03E-04	3.63E-04	6.13E-04	3.32E-05	6.97E-04	6.97E-04	2.51E-03	1.03E-04	3.63E-04	6.13E-04	3.32E-05	5.77E-05	6.97E-04	1.87E-03
1.11E-04	3.54E-04	6.10E-04	3.20E-05	7.18E-04	7.18E-04	2.54E-03	1.11E-04	3.54E-04	6.10E-04	3.20E-05	5.47E-05	7.18E-04	1.88E-03
1.13E-04	3.40E-04	6.04E-04	3.11E-05	7.30E-04	7.30E-04	2.55E-03	1.13E-04	3.40E-04	6.04E-04	3.11E-05	5.30E-05	7.30E-04	1.87E-03
1.11E-04	3.34E-04	6.05E-04	3.08E-05	7.36E-04	7.36E-04	2.55E-03	1.11E-04	3.34E-04	6.05E-04	3.08E-05	5.26E-05	7.36E-04	1.87E-03
6.56E-05	1.87E-04	3.29E-04	1.72E-05	2.95E-04	2.95E-04	1.19E-03	6.56E-05	1.87E-04	3.29E-04	1.72E-05	2.73E-05	2.95E-04	9.21E-04
6.72E-05	1.91E-04	3.35E-04	1.75E-05	3.06E-04	3.06E-04	1.22E-03	6.72E-05	1.91E-04	3.35E-04	1.75E-05	2.78E-05	3.06E-04	9.45E-04
6.80E-05	1.96E-04	3.42E-04	1.80E-05	3.17E-04	3.17E-04	1.26E-03	6.80E-05	1.96E-04	3.42E-04	1.80E-05	2.87E-05	3.17E-04	9.69E-04
6.88E-05	1.99E-04	3.48E-04	1.82E-05	3.29E-04	3.29E-04	1.29E-03	6.88E-05	1.99E-04	3.48E-04	1.82E-05	2.94E-05	3.29E-04	9.92E-04
6.96E-05	2.02E-04	3.56E-04	1.86E-05	3.39E-04	3.39E-04	1.32E-03	6.96E-05	2.02E-04	3.56E-04	1.86E-05	3.02E-05	3.39E-04	1.01E-03
7.08E-05	2.06E-04	3.66E-04	1.91E-05	3.49E-04	3.49E-04	1.36E-03	7.08E-05	2.06E-04	3.66E-04	1.91E-05	3.09E-05	3.49E-04	1.04E-03
7.21E-05	2.09E-04	3.76E-04	1.97E-05	3.58E-04	3.58E-04	1.39E-03	7.21E-05	2.09E-04	3.76E-04	1.97E-05	3.17E-05	3.58E-04	1.07E-03
7.33E-05	2.13E-04	3.88E-04	2.04E-05	3.68E-04	3.68E-04	1.43E-03	7.33E-05	2.13E-04	3.88E-04	2.04E-05	3.26E-05	3.68E-04	1.10E-03
7.41E-05	2.16E-04	4.01E-04	2.11E-05	3.80E-04	3.80E-04	1.47E-03	7.41E-05	2.16E-04	4.01E-04	2.11E-05	3.38E-05	3.80E-04	1.13E-03
7.57E-05	2.20E-04	4.16E-04	2.19E-05	3.94E-04	3.94E-04	1.52E-03	7.57E-05	2.20E-04	4.16E-04	2.19E-05	3.52E-05	3.94E-04	1.16E-03
7.61E-05	2.25E-04	4.35E-04	2.30E-05	4.00E-04	4.00E-04	1.56E-03	7.61E-05	2.25E-04	4.35E-04	2.30E-05	3.73E-05	4.00E-04	1.20E-03
7.49E-05	2.22E-04	4.42E-04	2.38E-05	3.90E-04	3.90E-04	1.54E-03	7.49E-05	2.22E-04	4.42E-04	2.38E-05	3.86E-05	3.90E-04	1.19E-03
7.89E-05	2.30E-04	4.71E-04	2.47E-05	4.34E-04	4.34E-04	1.67E-03	7.89E-05	2.30E-04	4.71E-04	2.47E-05	3.98E-05	4.34E-04	1.28E-03
8.02E-05	2.31E-04	4.83E-04	2.52E-05	4.49E-04	4.49E-04	1.72E-03	8.02E-05	2.31E-04	4.83E-04	2.52E-05	4.10E-05	4.49E-04	1.31E-03
8.10E-05	2.34E-04	4.96E-04	2.59E-05	4.59E-04	4.59E-04	1.75E-03	8.10E-05	2.34E-04	4.96E-04	2.59E-05	4.30E-05	4.59E-04	1.34E-03
8.18E-05	2.36E-04	5.07E-04	2.67E-05	4.66E-04	4.66E-04	1.78E-03	8.18E-05	2.36E-04	5.07E-04	2.67E-05	4.49E-05	4.66E-04	1.36E-03
8.26E-05	2.39E-04	5.20E-04	2.74E-05	4.75E-04	4.75E-04	1.82E-03	8.26E-05	2.39E-04	5.20E-04	2.74E-05	4.66E-05	4.75E-04	1.39E-03
8.34E-05	2.41E-04	5.34E-04	2.80E-05	4.87E-04	4.87E-04	1.86E-03	8.34E-05	2.41E-04	5.34E-04	2.80E-05	4.76E-05	4.87E-04	1.42E-03
8.46E-05	2.42E-04	5.48E-04	2.86E-05	5.03E-04	5.03E-04	1.91E-03	8.46E-05	2.42E-04	5.48E-04	2.86E-05	4.81E-05	5.03E-04	1.45E-03
8.58E-05	2.44E-04	5.61E-04	2.91E-05	5.18E-04	5.18E-04	1.96E-03	8.58E-05	2.44E-04	5.61E-04	2.91E-05	4.83E-05	5.18E-04	1.49E-03
8.79E-05	2.46E-04	5.71E-04	2.97E-05	5.32E-04	5.32E-04	2.00E-03	8.79E-05	2.46E-04	5.71E-04	2.97E-05	4.84E-05	5.32E-04	1.51E-03
8.87E-05	2.47E-04	5.79E-04	3.04E-05	5.47E-04	5.47E-04	2.04E-03	8.87E-05	2.47E-04	5.79E-04	3.04E-05	4.90E-05	5.47E-04	1.54E-03
8.99E-05	2.49E-04	5.85E-04	3.08E-05	5.68E-04	5.68E-04	2.09E-03	8.99E-05	2.49E-04	5.85E-04	3.08E-05	4.94E-05	5.68E-04	1.57E-03

9.11E-05	2.53E-04	5.89E-04	3.11E-05	5.94E-04	5.94E-04	2.15E-03	9.11E-05	2.53E-04	5.89E-04	3.11E-05	4.90E-05	5.94E-04	1.61E-03
9.27E-05	2.59E-04	5.89E-04	3.13E-05	6.11E-04	6.11E-04	2.19E-03	9.27E-05	2.59E-04	5.89E-04	3.13E-05	4.90E-05	6.11E-04	1.63E-03
9.39E-05	2.67E-04	5.86E-04	3.15E-05	6.16E-04	6.16E-04	2.21E-03	9.39E-05	2.67E-04	5.86E-04	3.15E-05	5.00E-05	6.16E-04	1.64E-03
9.55E-05	2.76E-04	5.81E-04	3.17E-05	6.23E-04	6.23E-04	2.23E-03	9.55E-05	2.76E-04	5.81E-04	3.17E-05	5.06E-05	6.23E-04	1.66E-03
9.72E-05	2.85E-04	5.74E-04	3.15E-05	6.32E-04	6.32E-04	2.25E-03	9.72E-05	2.85E-04	5.74E-04	3.15E-05	4.93E-05	6.32E-04	1.67E-03
9.84E-05	2.95E-04	5.69E-04	3.12E-05	6.32E-04	6.32E-04	2.26E-03	9.84E-05	2.95E-04	5.69E-04	3.12E-05	4.73E-05	6.32E-04	1.67E-03
9.96E-05	3.03E-04	5.65E-04	3.08E-05	6.22E-04	6.22E-04	2.24E-03	9.96E-05	3.03E-04	5.65E-04	3.08E-05	4.56E-05	6.22E-04	1.67E-03
1.00E-04	3.10E-04	5.62E-04	3.05E-05	6.32E-04	6.32E-04	2.27E-03	1.00E-04	3.10E-04	5.62E-04	3.05E-05	4.40E-05	6.32E-04	1.68E-03
1.02E-04	3.17E-04	5.59E-04	3.04E-05	6.32E-04	6.32E-04	2.27E-03	1.02E-04	3.17E-04	5.59E-04	3.04E-05	4.28E-05	6.32E-04	1.68E-03
1.03E-04	3.24E-04	5.57E-04	3.01E-05	6.22E-04	6.22E-04	2.26E-03	1.03E-04	3.24E-04	5.57E-04	3.01E-05	4.33E-05	6.22E-04	1.68E-03
1.06E-04	3.30E-04	5.58E-04	3.02E-05	6.19E-04	6.19E-04	2.26E-03	1.06E-04	3.30E-04	5.58E-04	3.02E-05	4.57E-05	6.19E-04	1.69E-03
1.08E-04	3.34E-04	5.58E-04	3.03E-05	6.10E-04	6.10E-04	2.25E-03	1.08E-04	3.34E-04	5.58E-04	3.03E-05	4.77E-05	6.10E-04	1.69E-03
1.11E-04	3.37E-04	5.61E-04	3.04E-05	6.04E-04	6.04E-04	2.25E-03	1.11E-04	3.37E-04	5.61E-04	3.04E-05	4.86E-05	6.04E-04	1.69E-03
1.13E-04	3.38E-04	5.65E-04	3.05E-05	6.12E-04	6.12E-04	2.27E-03	1.13E-04	3.38E-04	5.65E-04	3.05E-05	4.80E-05	6.12E-04	1.71E-03
1.13E-04	3.39E-04	5.67E-04	3.03E-05	6.22E-04	6.22E-04	2.29E-03	1.13E-04	3.39E-04	5.67E-04	3.03E-05	4.63E-05	6.22E-04	1.72E-03
1.09E-04	3.38E-04	5.74E-04	3.05E-05	6.15E-04	6.15E-04	2.28E-03	1.09E-04	3.38E-04	5.74E-04	3.05E-05	4.60E-05	6.15E-04	1.71E-03
1.02E-04	3.20E-04	5.79E-04	3.06E-05	5.87E-04	5.87E-04	2.21E-03	1.02E-04	3.20E-04	5.79E-04	3.06E-05	4.73E-05	5.87E-04	1.67E-03
9.47E-05	2.98E-04	5.68E-04	3.05E-05	5.50E-04	5.50E-04	2.09E-03	9.47E-05	2.98E-04	5.68E-04	3.05E-05	5.01E-05	5.50E-04	1.59E-03
9.51E-05	2.89E-04	5.68E-04	3.07E-05	5.48E-04	5.48E-04	2.08E-03	9.51E-05	2.89E-04	5.68E-04	3.07E-05	5.23E-05	5.48E-04	1.58E-03
9.11E-05	2.73E-04	5.56E-04	3.05E-05	5.13E-04	5.13E-04	1.98E-03	9.11E-05	2.73E-04	5.56E-04	3.05E-05	4.97E-05	5.13E-04	1.51E-03
7.65E-05	2.07E-04	4.50E-04	2.57E-05	3.58E-04	3.58E-04	1.48E-03	7.65E-05	2.07E-04	4.50E-04	2.57E-05	4.19E-05	3.58E-04	1.16E-03
7.37E-05	2.02E-04	4.48E-04	2.61E-05	3.74E-04	3.74E-04	1.50E-03	7.37E-05	2.02E-04	4.48E-04	2.61E-05	4.49E-05	3.74E-04	1.17E-03
7.69E-05	2.31E-04	4.95E-04	2.91E-05	4.69E-04	4.69E-04	1.77E-03	7.69E-05	2.31E-04	4.95E-04	2.91E-05	5.11E-05	4.69E-04	1.35E-03
8.22E-05	2.67E-04	5.41E-04	3.04E-05	5.77E-04	5.77E-04	2.07E-03	8.22E-05	2.67E-04	5.41E-04	3.04E-05	5.15E-05	5.77E-04	1.55E-03
9.19E-05	3.12E-04	6.01E-04	3.09E-05	6.50E-04	6.50E-04	2.34E-03	9.19E-05	3.12E-04	6.01E-04	3.09E-05	5.11E-05	6.50E-04	1.74E-03
9.31E-05	3.14E-04	6.34E-04	3.13E-05	6.35E-04	6.35E-04	2.34E-03	9.31E-05	3.14E-04	6.34E-04	3.13E-05	5.26E-05	6.35E-04	1.76E-03
9.27E-05	3.17E-04	6.41E-04	3.23E-05	6.09E-04	6.09E-04	2.30E-03	9.27E-05	3.17E-04	6.41E-04	3.23E-05	5.52E-05	6.09E-04	1.75E-03
9.03E-05	3.18E-04	6.21E-04	3.27E-05	5.95E-04	5.95E-04	2.25E-03	9.03E-05	3.18E-04	6.21E-04	3.27E-05	5.70E-05	5.95E-04	1.71E-03
8.74E-05	3.14E-04	5.81E-04	3.21E-05	5.86E-04	5.86E-04	2.19E-03	8.74E-05	3.14E-04	5.81E-04	3.21E-05	5.61E-05	5.86E-04	1.66E-03
8.99E-05	3.24E-04	5.57E-04	3.06E-05	6.06E-04	6.06E-04	2.21E-03	8.99E-05	3.24E-04	5.57E-04	3.06E-05	5.34E-05	6.06E-04	1.66E-03
9.31E-05	3.16E-04	5.49E-04	2.95E-05	6.19E-04	6.19E-04	2.23E-03	9.31E-05	3.16E-04	5.49E-04	2.95E-05	5.08E-05	6.19E-04	1.66E-03
8.58E-05	2.95E-04	5.43E-04	2.86E-05	6.05E-04	6.05E-04	2.16E-03	8.58E-05	2.95E-04	5.43E-04	2.86E-05	4.83E-05	6.05E-04	1.60E-03
6.44E-05	1.81E-04	3.10E-04	1.63E-05	2.89E-04	2.89E-04	1.15E-03	6.44E-05	1.81E-04	3.10E-04	1.63E-05	2.60E-05	2.89E-04	8.86E-04
6.52E-05	1.85E-04	3.16E-04	1.66E-05	2.98E-04	2.98E-04	1.18E-03	6.52E-05	1.85E-04	3.16E-04	1.66E-05	2.68E-05	2.98E-04	9.07E-04
6.64E-05	1.89E-04	3.22E-04	1.70E-05	3.06E-04	3.06E-04	1.21E-03	6.64E-05	1.89E-04	3.22E-04	1.70E-05	2.76E-05	3.06E-04	9.27E-04
6.72E-05	1.91E-04	3.28E-04	1.73E-05	3.14E-04	3.14E-04	1.23E-03	6.72E-05	1.91E-04	3.28E-04	1.73E-05	2.81E-05	3.14E-04	9.46E-04
6.80E-05	1.95E-04	3.37E-04	1.77E-05	3.22E-04	3.22E-04	1.26E-03	6.80E-05	1.95E-04	3.37E-04	1.77E-05	2.88E-05	3.22E-04	9.68E-04
6.92E-05	1.98E-04	3.46E-04	1.82E-05	3.30E-04	3.30E-04	1.29E-03	6.92E-05	1.98E-04	3.46E-04	1.82E-05	2.93E-05	3.30E-04	9.91E-04
7.04E-05	2.02E-04	3.57E-04	1.88E-05	3.39E-04	3.39E-04	1.33E-03	7.04E-05	2.02E-04	3.57E-04	1.88E-05	3.01E-05	3.39E-04	1.02E-03
7.13E-05	2.05E-04	3.69E-04	1.95E-05	3.50E-04	3.50E-04	1.36E-03	7.13E-05	2.05E-04	3.69E-04	1.95E-05	3.11E-05	3.50E-04	1.05E-03
7.21E-05	2.08E-04	3.82E-04	2.01E-05	3.61E-04	3.61E-04	1.40E-03	7.21E-05	2.08E-04	3.82E-04	2.01E-05	3.22E-05	3.61E-04	1.07E-03
7.29E-05	2.10E-04	3.95E-04	2.07E-05	3.73E-04	3.73E-04	1.44E-03	7.29E-05	2.10E-04	3.95E-04	2.07E-05	3.35E-05	3.73E-04	1.11E-03
7.37E-05	2.14E-04	4.15E-04	2.19E-05	3.83E-04	3.83E-04	1.49E-03	7.37E-05	2.14E-04	4.15E-04	2.19E-05	3.54E-05	3.83E-04	1.14E-03
7.04E-05	2.08E-04	4.16E-04	2.25E-05	3.58E-04	3.58E-04	1.43E-03	7.04E-05	2.08E-04	4.16E-04	2.25E-05	3.65E-05	3.58E-04	1.11E-03
7.41E-05	2.16E-04	4.44E-04	2.36E-05	3.93E-04	3.93E-04	1.54E-03	7.41E-05	2.16E-04	4.44E-04	2.36E-05	3.83E-05	3.93E-04	1.19E-03
7.65E-05	2.19E-04	4.57E-04	2.40E-05	4.15E-04	4.15E-04	1.61E-03	7.65E-05	2.19E-04	4.57E-04	2.40E-05	3.95E-05	4.15E-04	1.23E-03
7.69E-05	2.21E-04	4.66E-04	2.45E-05	4.21E-04	4.21E-04	1.63E-03	7.69E-05	2.21E-04	4.66E-04	2.45E-05	4.09E-05	4.21E-04	1.25E-03
7.77E-05	2.23E-04	4.76E-04	2.52E-05	4.30E-04	4.30E-04	1.66E-03	7.77E-05	2.23E-04	4.76E-04	2.52E-05	4.24E-05	4.30E-04	1.27E-03
7.85E-05	2.25E-04	4.89E-04	2.59E-05	4.42E-04	4.42E-04	1.70E-03	7.85E-05	2.25E-04	4.89E-04	2.59E-05	4.38E-05	4.42E-04	1.30E-03
7.93E-05	2.27E-04	5.03E-04	2.64E-05	4.56E-04	4.56E-04	1.75E-03	7.93E-05	2.27E-04	5.03E-04	2.64E-05	4.47E-05	4.56E-04	1.34E-03
8.02E-05	2.28E-04	5.15E-04	2.69E-05	4.69E-04	4.69E-04	1.79E-03	8.02E-05	2.28E-04	5.15E-04	2.69E-05	4.50E-05	4.69E-04	1.36E-03
8.14E-05	2.29E-04	5.24E-04	2.73E-05	4.80E-04	4.80E-04	1.82E-03	8.14E-05	2.29E-04	5.24E-04	2.73E-05	4.49E-05	4.80E-04	1.39E-03
8.30E-05	2.30E-04	5.31E-04	2.79E-05	4.91E-04	4.91E-04	1.85E-03	8.30E-05	2.30E-04	5.31E-04	2.79E-05	4.49E-05	4.91E-04	1.41E-03
8.38E-05	2.31E-04	5.35E-04	2.82E-05	5.07E-04	5.07E-04	1.89E-03	8.38E-05	2.31E-04	5.35E-04	2.82E-05	4.51E-05	5.07E-04	1.43E-03

8.46E-05	2.34E-04	5.39E-04	2.85E-05	5.30E-04	5.30E-04	1.95E-03	8.46E-05	2.34E-04	5.39E-04	2.85E-05	4.52E-05	5.30E-04	1.46E-03
8.58E-05	2.39E-04	5.42E-04	2.87E-05	5.50E-04	5.50E-04	2.00E-03	8.58E-05	2.39E-04	5.42E-04	2.87E-05	4.50E-05	5.50E-04	1.49E-03
8.66E-05	2.44E-04	5.41E-04	2.89E-05	5.58E-04	5.58E-04	2.02E-03	8.66E-05	2.44E-04	5.41E-04	2.89E-05	4.54E-05	5.58E-04	1.50E-03
8.83E-05	2.51E-04	5.38E-04	2.91E-05	5.60E-04	5.60E-04	2.03E-03	8.83E-05	2.51E-04	5.38E-04	2.91E-05	4.64E-05	5.60E-04	1.51E-03
8.87E-05	2.59E-04	5.32E-04	2.92E-05	5.65E-04	5.65E-04	2.04E-03	8.87E-05	2.59E-04	5.32E-04	2.92E-05	4.64E-05	5.65E-04	1.52E-03
8.99E-05	2.68E-04	5.27E-04	2.91E-05	5.72E-04	5.72E-04	2.06E-03	8.99E-05	2.68E-04	5.27E-04	2.91E-05	4.54E-05	5.72E-04	1.53E-03
9.11E-05	2.75E-04	5.21E-04	2.87E-05	5.62E-04	5.62E-04	2.04E-03	9.11E-05	2.75E-04	5.21E-04	2.87E-05	4.36E-05	5.62E-04	1.52E-03
9.27E-05	2.82E-04	5.16E-04	2.83E-05	5.55E-04	5.55E-04	2.03E-03	9.27E-05	2.82E-04	5.16E-04	2.83E-05	4.20E-05	5.55E-04	1.52E-03
9.43E-05	2.88E-04	5.13E-04	2.81E-05	5.69E-04	5.69E-04	2.06E-03	9.43E-05	2.88E-04	5.13E-04	2.81E-05	4.04E-05	5.69E-04	1.53E-03
9.59E-05	2.93E-04	5.13E-04	2.80E-05	5.68E-04	5.68E-04	2.07E-03	9.59E-05	2.93E-04	5.13E-04	2.80E-05	3.93E-05	5.68E-04	1.54E-03
9.76E-05	3.02E-04	5.21E-04	2.84E-05	5.65E-04	5.65E-04	2.08E-03	9.76E-05	3.02E-04	5.21E-04	2.84E-05	4.04E-05	5.65E-04	1.55E-03
9.76E-05	3.07E-04	5.25E-04	2.88E-05	5.60E-04	5.60E-04	2.08E-03	9.76E-05	3.07E-04	5.25E-04	2.88E-05	4.31E-05	5.60E-04	1.56E-03
9.92E-05	3.10E-04	5.25E-04	2.88E-05	5.51E-04	5.51E-04	2.07E-03	9.92E-05	3.10E-04	5.25E-04	2.88E-05	4.50E-05	5.51E-04	1.56E-03
9.59E-05	3.07E-04	5.28E-04	2.91E-05	5.33E-04	5.33E-04	2.03E-03	9.59E-05	3.07E-04	5.28E-04	2.91E-05	4.64E-05	5.33E-04	1.54E-03
9.35E-05	3.01E-04	5.27E-04	2.90E-05	5.30E-04	5.30E-04	2.01E-03	9.35E-05	3.01E-04	5.27E-04	2.90E-05	4.61E-05	5.30E-04	1.53E-03
8.91E-05	2.89E-04	5.15E-04	2.88E-05	5.15E-04	5.15E-04	1.95E-03	8.91E-05	2.89E-04	5.15E-04	2.88E-05	4.46E-05	5.15E-04	1.48E-03
9.96E-05	3.07E-04	5.25E-04	2.82E-05	5.56E-04	5.56E-04	2.07E-03	9.96E-05	3.07E-04	5.25E-04	2.82E-05	4.26E-05	5.56E-04	1.56E-03
1.02E-04	3.04E-04	5.27E-04	2.79E-05	5.48E-04	5.48E-04	2.06E-03	1.02E-04	3.04E-04	5.27E-04	2.79E-05	4.22E-05	5.48E-04	1.55E-03
9.76E-05	2.98E-04	5.34E-04	2.81E-05	5.47E-04	5.47E-04	2.05E-03	9.76E-05	2.98E-04	5.34E-04	2.81E-05	4.43E-05	5.47E-04	1.55E-03
8.18E-05	2.51E-04	5.06E-04	2.77E-05	4.57E-04	4.57E-04	1.78E-03	8.18E-05	2.51E-04	5.06E-04	2.77E-05	4.76E-05	4.57E-04	1.37E-03
8.30E-05	2.55E-04	5.10E-04	2.82E-05	4.69E-04	4.69E-04	1.81E-03	8.30E-05	2.55E-04	5.10E-04	2.82E-05	4.78E-05	4.69E-04	1.39E-03
7.69E-05	2.25E-04	4.73E-04	2.66E-05	4.01E-04	4.01E-04	1.60E-03	7.69E-05	2.25E-04	4.73E-04	2.66E-05	4.28E-05	4.01E-04	1.24E-03
7.65E-05	2.35E-04	4.97E-04	2.68E-05	4.28E-04	4.28E-04	1.69E-03	7.65E-05	2.35E-04	4.97E-04	2.68E-05	4.35E-05	4.28E-04	1.31E-03
7.77E-05	2.50E-04	5.20E-04	2.81E-05	4.79E-04	4.79E-04	1.83E-03	7.77E-05	2.50E-04	5.20E-04	2.81E-05	4.76E-05	4.79E-04	1.40E-03
8.22E-05	2.71E-04	5.29E-04	2.90E-05	5.57E-04	5.57E-04	2.03E-03	8.22E-05	2.71E-04	5.29E-04	2.90E-05	4.93E-05	5.57E-04	1.52E-03
8.10E-05	2.70E-04	5.19E-04	2.85E-05	5.70E-04	5.70E-04	2.04E-03	8.10E-05	2.70E-04	5.19E-04	2.85E-05	4.75E-05	5.70E-04	1.52E-03
7.77E-05	2.67E-04	5.38E-04	2.76E-05	5.52E-04	5.52E-04	2.02E-03	7.77E-05	2.67E-04	5.38E-04	2.76E-05	4.46E-05	5.52E-04	1.51E-03
7.61E-05	2.64E-04	5.67E-04	2.82E-05	5.25E-04	5.25E-04	1.99E-03	7.61E-05	2.64E-04	5.67E-04	2.82E-05	4.69E-05	5.25E-04	1.51E-03
7.61E-05	2.69E-04	5.73E-04	2.98E-05	5.08E-04	5.08E-04	1.96E-03	7.61E-05	2.69E-04	5.73E-04	2.98E-05	5.17E-05	5.08E-04	1.51E-03
7.53E-05	2.66E-04	5.51E-04	3.01E-05	4.86E-04	4.86E-04	1.89E-03	7.53E-05	2.66E-04	5.51E-04	3.01E-05	5.23E-05	4.86E-04	1.46E-03
7.69E-05	2.72E-04	5.25E-04	2.96E-05	4.96E-04	4.96E-04	1.90E-03	7.69E-05	2.72E-04	5.25E-04	2.96E-05	5.15E-05	4.96E-04	1.45E-03
7.81E-05	2.83E-04	5.02E-04	2.84E-05	5.17E-04	5.17E-04	1.92E-03	7.81E-05	2.83E-04	5.02E-04	2.84E-05	4.95E-05	5.17E-04	1.46E-03
7.13E-05	2.47E-04	4.53E-04	2.59E-05	4.58E-04	4.58E-04	1.71E-03	7.13E-05	2.47E-04	4.53E-04	2.59E-05	4.49E-05	4.58E-04	1.30E-03
2.78E-02	9.24E-02	3.09E-04	1.88E-05	1.70E-04	1.70E-04	1.21E-01	2.78E-02	9.24E-02	3.09E-04	1.88E-05	3.05E-05	1.70E-04	1.21E-01
3.29E-02	1.02E-01	3.53E-04	2.15E-05	1.89E-04	1.89E-04	1.36E-01	3.29E-02	1.02E-01	3.53E-04	2.15E-05	3.47E-05	1.89E-04	1.36E-01
2.56E-02	1.05E-01	3.59E-04	2.19E-05	1.92E-04	1.92E-04	1.31E-01	2.56E-02	1.05E-01	3.59E-04	2.19E-05	3.53E-05	1.92E-04	1.31E-01
2.97E-02	1.05E-01	3.55E-04	2.19E-05	1.89E-04	1.89E-04	1.35E-01	2.97E-02	1.05E-01	3.55E-04	2.19E-05	3.53E-05	1.89E-04	1.35E-01
2.19E-02	8.17E-02	3.51E-04	2.17E-05	1.88E-04	1.88E-04	1.04E-01	2.19E-02	8.17E-02	3.51E-04	2.17E-05	3.52E-05	1.88E-04	1.04E-01
2.23E-02	8.08E-02	3.54E-04	2.19E-05	1.90E-04	1.90E-04	1.04E-01	2.23E-02	8.08E-02	3.54E-04	2.19E-05	3.54E-05	1.90E-04	1.04E-01
3.28E-02	1.08E-01	3.69E-04	2.28E-05	2.03E-04	2.03E-04	1.42E-01	3.28E-02	1.08E-01	3.69E-04	2.28E-05	3.65E-05	2.03E-04	1.42E-01
2.97E-02	1.23E-01	3.76E-04	2.40E-05	2.36E-04	2.36E-04	1.54E-01	2.97E-02	1.23E-01	3.76E-04	2.40E-05	3.77E-05	2.36E-04	1.54E-01
4.13E-02	1.18E-01	3.79E-04	2.41E-05	2.36E-04	2.36E-04	1.60E-01	4.13E-02	1.18E-01	3.79E-04	2.41E-05	3.79E-05	2.36E-04	1.60E-01
3.69E-02	1.15E-01	3.79E-04	2.42E-05	2.41E-04	2.41E-04	1.53E-01	3.69E-02	1.15E-01	3.79E-04	2.42E-05	3.80E-05	2.41E-04	1.53E-01
3.71E-02	1.18E-01	3.77E-04	2.42E-05	2.44E-04	2.44E-04	1.56E-01	3.71E-02	1.18E-01	3.77E-04	2.42E-05	3.81E-05	2.44E-04	1.56E-01
4.44E-02	1.27E-01	3.81E-04	2.46E-05	2.54E-04	2.54E-04	1.72E-01	4.44E-02	1.27E-01	3.81E-04	2.46E-05	3.85E-05	2.54E-04	1.72E-01
3.82E-02	1.30E-01	3.85E-04	2.49E-05	2.63E-04	2.63E-04	1.69E-01	3.82E-02	1.30E-01	3.85E-04	2.49E-05	3.89E-05	2.63E-04	1.68E-01
3.80E-02	1.18E-01	3.98E-04	2.59E-05	2.81E-04	2.81E-04	1.57E-01	3.80E-02	1.18E-01	3.98E-04	2.59E-05	3.99E-05	2.81E-04	1.57E-01
3.71E-02	8.36E-02	4.65E-04	2.96E-05	3.49E-04	3.49E-04	1.22E-01	3.71E-02	8.36E-02	4.65E-04	2.96E-05	4.36E-05	3.49E-04	1.22E-01
2.63E-02	1.17E-01	4.64E-04	2.92E-05	3.46E-04	3.46E-04	1.45E-01	2.63E-02	1.17E-01	4.64E-04	2.92E-05	4.33E-05	3.46E-04	1.44E-01
2.73E-02	1.09E-01	5.79E-04	3.18E-05	3.64E-04	3.64E-04	1.37E-01	2.73E-02	1.09E-01	5.79E-04	3.18E-05	4.60E-05	3.64E-04	1.37E-01
2.11E-02	1.01E-01	5.84E-04	3.17E-05	3.62E-04	3.62E-04	1.23E-01	2.11E-02	1.01E-01	5.84E-04	3.17E-05	4.57E-05	3.62E-04	1.23E-01
1.93E-02	9.40E-02	7.90E-04	3.84E-05	4.00E-04	4.00E-04	1.15E-01	1.93E-02	9.40E-02	7.90E-04	3.84E-05	5.22E-05	4.00E-04	1.15E-01
7.83E-03	4.61E-02	8.03E-04	3.82E-05	3.85E-04	3.85E-04	5.55E-02	7.83E-03	4.61E-02	8.03E-04	3.82E-05	5.19E-05	3.85E-04	5.52E-02
8.12E-03	4.89E-02	9.36E-04	4.55E-05	3.93E-04	3.93E-04	5.88E-02	8.12E-03	4.89E-02	9.36E-04	4.55E-05	6.12E-05	3.93E-04	5.85E-02

7.04E-03	4.37E-02	9.74E-04	5.01E-05	4.05E-04	4.05E-04	5.25E-02	7.04E-03	4.37E-02	9.74E-04	5.01E-05	6.99E-05	4.05E-04	5.22E-02
1.81E-02	9.51E-02	1.01E-03	4.93E-05	4.22E-04	4.22E-04	1.15E-01	1.81E-02	9.51E-02	1.01E-03	4.93E-05	6.67E-05	4.22E-04	1.15E-01
1.89E-02	1.02E-01	1.12E-03	6.06E-05	4.75E-04	4.75E-04	1.23E-01	1.89E-02	1.02E-01	1.12E-03	6.06E-05	8.62E-05	4.75E-04	1.23E-01
1.79E-02	9.78E-02	1.15E-03	6.54E-05	4.98E-04	4.98E-04	1.18E-01	1.79E-02	9.78E-02	1.15E-03	6.54E-05	9.59E-05	4.98E-04	1.17E-01
1.74E-02	9.77E-02	1.19E-03	7.16E-05	5.23E-04	5.23E-04	1.17E-01	1.74E-02	9.77E-02	1.19E-03	7.16E-05	1.09E-04	5.23E-04	1.17E-01
1.31E-02	7.57E-02	1.18E-03	7.22E-05	5.20E-04	5.20E-04	9.11E-02	1.31E-02	7.57E-02	1.18E-03	7.22E-05	1.11E-04	5.20E-04	9.07E-02
1.07E-02	6.38E-02	1.16E-03	7.18E-05	5.14E-04	5.14E-04	7.68E-02	1.07E-02	6.38E-02	1.16E-03	7.18E-05	1.11E-04	5.14E-04	7.63E-02
2.00E-02	9.33E-02	2.01E-03	1.22E-04	7.49E-04	7.49E-04	1.17E-01	2.00E-02	9.33E-02	2.01E-03	1.22E-04	1.73E-04	7.49E-04	1.16E-01
2.04E-02	9.64E-02	2.04E-03	1.24E-04	7.57E-04	7.57E-04	1.20E-01	2.04E-02	9.64E-02	2.04E-03	1.24E-04	1.75E-04	7.57E-04	1.20E-01
1.63E-02	7.98E-02	2.71E-03	1.66E-04	9.03E-04	9.03E-04	1.01E-01	1.63E-02	7.98E-02	2.71E-03	1.66E-04	2.14E-04	9.03E-04	1.00E-01
7.66E-03	3.92E-03	1.87E-02	1.74E-03	1.19E-03	1.19E-03	3.44E-02	7.66E-03	3.92E-03	1.87E-02	1.74E-03	2.79E-04	1.19E-03	3.35E-02
6.96E-03	3.49E-03	2.05E-02	1.64E-03	1.21E-03	1.21E-03	3.50E-02	6.96E-03	3.49E-03	2.05E-02	1.64E-03	2.93E-04	1.21E-03	3.41E-02
2.65E-03	3.45E-03	1.21E-02	8.34E-04	1.21E-03	1.21E-03	2.14E-02	2.65E-03	3.45E-03	1.21E-02	8.34E-04	3.95E-04	1.21E-03	2.06E-02
6.37E-03	2.43E-03	2.22E-02	1.15E-03	1.38E-03	1.38E-03	3.49E-02	6.37E-03	2.43E-03	2.22E-02	1.15E-03	4.17E-04	1.38E-03	3.40E-02
1.04E-02	1.43E-03	2.13E-02	2.35E-03	2.07E-03	2.07E-03	3.96E-02	1.04E-02	1.43E-03	2.13E-02	2.35E-03	6.55E-04	2.07E-03	3.82E-02
9.22E-03	1.38E-03	2.51E-02	8.91E-03	3.38E-03	3.38E-03	5.14E-02	9.22E-03	1.38E-03	2.51E-02	8.91E-03	1.20E-03	3.38E-03	4.92E-02
9.22E-03	1.36E-03	2.69E-02	8.54E-03	4.07E-03	4.07E-03	5.42E-02	9.22E-03	1.36E-03	2.69E-02	8.54E-03	1.60E-03	4.07E-03	5.17E-02
3.74E-03	9.19E-04	4.28E-02	8.19E-03	3.09E-02	3.09E-02	1.17E-01	3.74E-03	9.19E-04	4.28E-02	8.19E-03	2.11E-02	3.09E-02	1.08E-01
3.58E-03	9.41E-04	5.04E-02	7.73E-03	3.35E-02	3.35E-02	1.30E-01	3.58E-03	9.41E-04	5.04E-02	7.73E-03	2.25E-02	3.35E-02	1.19E-01
2.82E-03	9.43E-04	4.59E-02	5.88E-03	2.74E-02	2.74E-02	1.10E-01	2.82E-03	9.43E-04	4.59E-02	5.88E-03	1.72E-02	2.74E-02	1.00E-01
2.53E-03	9.40E-04	4.35E-02	5.20E-03	2.50E-02	2.50E-02	1.02E-01	2.53E-03	9.40E-04	4.35E-02	5.20E-03	1.53E-02	2.50E-02	9.25E-02
1.70E-03	9.33E-04	3.58E-02	3.11E-03	1.73E-02	1.73E-02	7.62E-02	1.70E-03	9.33E-04	3.58E-02	3.11E-03	8.88E-03	1.73E-02	6.77E-02
1.81E-03	9.41E-04	3.77E-02	3.20E-03	1.77E-02	1.77E-02	7.90E-02	1.81E-03	9.41E-04	3.77E-02	3.20E-03	8.93E-03	1.77E-02	7.03E-02
1.54E-03	9.49E-04	3.39E-02	2.62E-03	1.51E-02	1.51E-02	6.92E-02	1.54E-03	9.49E-04	3.39E-02	2.62E-03	6.87E-03	1.51E-02	6.10E-02
1.36E-03	9.37E-04	3.04E-02	2.46E-03	1.45E-02	1.45E-02	6.42E-02	1.36E-03	9.37E-04	3.04E-02	2.46E-03	6.90E-03	1.45E-02	5.66E-02
1.27E-03	9.41E-04	2.89E-02	2.23E-03	1.35E-02	1.35E-02	6.04E-02	1.27E-03	9.41E-04	2.89E-02	2.23E-03	6.13E-03	1.35E-02	5.30E-02
1.44E-03	9.61E-04	3.25E-02	2.38E-03	1.39E-02	1.39E-02	6.51E-02	1.44E-03	9.61E-04	3.25E-02	2.38E-03	5.87E-03	1.39E-02	5.71E-02
1.48E-03	9.64E-04	3.32E-02	2.40E-03	1.37E-02	1.37E-02	6.54E-02	1.48E-03	9.64E-04	3.32E-02	2.40E-03	5.61E-03	1.37E-02	5.73E-02
1.50E-03	9.69E-04	3.36E-02	2.39E-03	1.33E-02	1.33E-02	6.51E-02	1.50E-03	9.69E-04	3.36E-02	2.39E-03	5.23E-03	1.33E-02	5.70E-02
1.50E-03	9.76E-04	3.35E-02	2.33E-03	1.28E-02	1.28E-02	6.40E-02	1.50E-03	9.76E-04	3.35E-02	2.33E-03	4.73E-03	1.28E-02	5.59E-02
1.50E-03	9.93E-04	3.36E-02	2.24E-03	1.20E-02	1.20E-02	6.24E-02	1.50E-03	9.93E-04	3.36E-02	2.24E-03	3.97E-03	1.20E-02	5.43E-02
1.53E-03	1.01E-03	3.38E-02	2.19E-03	1.17E-02	1.17E-02	6.19E-02	1.53E-03	1.01E-03	3.38E-02	2.19E-03	3.46E-03	1.17E-02	5.37E-02
1.59E-03	1.03E-03	3.46E-02	2.19E-03	1.15E-02	1.15E-02	6.24E-02	1.59E-03	1.03E-03	3.46E-02	2.19E-03	3.09E-03	1.15E-02	5.40E-02
2.26E-03	1.18E-03	4.11E-02	2.37E-03	1.20E-02	1.20E-02	7.09E-02	2.26E-03	1.18E-03	4.11E-02	2.37E-03	1.68E-03	1.20E-02	6.06E-02
2.72E-03	1.21E-03	4.49E-02	2.57E-03	1.26E-02	1.26E-02	7.66E-02	2.72E-03	1.21E-03	4.49E-02	2.57E-03	1.46E-03	1.26E-02	6.55E-02
2.72E-03	1.23E-03	4.46E-02	2.48E-03	1.27E-02	1.27E-02	7.64E-02	2.72E-03	1.23E-03	4.46E-02	2.48E-03	1.42E-03	1.27E-02	6.52E-02
2.76E-03	1.23E-03	4.50E-02	2.49E-03	1.27E-02	1.27E-02	7.69E-02	2.76E-03	1.23E-03	4.50E-02	2.49E-03	1.40E-03	1.27E-02	6.56E-02
2.86E-03	1.41E-03	4.12E-02	1.75E-03	3.84E-02	3.84E-02	1.24E-01	2.86E-03	1.41E-03	4.12E-02	1.75E-03	1.40E-03	3.84E-02	8.70E-02
2.78E-03	1.43E-03	4.02E-02	1.69E-03	3.78E-02	3.78E-02	1.22E-01	2.78E-03	1.43E-03	4.02E-02	1.69E-03	1.38E-03	3.78E-02	8.53E-02
1.84E-03	1.47E-03	2.93E-02	1.26E-03	1.91E-02	1.91E-02	7.21E-02	1.84E-03	1.47E-03	2.93E-02	1.26E-03	1.17E-03	1.91E-02	5.41E-02
1.88E-03	1.50E-03	2.93E-02	1.24E-03	1.90E-02	1.90E-02	7.19E-02	1.88E-03	1.50E-03	2.93E-02	1.24E-03	1.14E-03	1.90E-02	5.40E-02
2.96E-03	1.44E-03	4.11E-02	1.69E-03	4.05E-02	4.05E-02	1.28E-01	2.96E-03	1.44E-03	4.11E-02	1.69E-03	1.38E-03	4.05E-02	8.91E-02
3.01E-03	1.42E-03	4.21E-02	1.76E-03	4.12E-02	4.12E-02	1.31E-01	3.01E-03	1.42E-03	4.21E-02	1.76E-03	1.42E-03	4.12E-02	9.10E-02
2.90E-03	1.23E-03	4.60E-02	2.52E-03	1.29E-02	1.29E-02	7.84E-02	2.90E-03	1.23E-03	4.60E-02	2.52E-03	1.36E-03	1.29E-02	6.69E-02
3.73E-03	1.27E-03	5.08E-02	2.60E-03	1.38E-02	1.38E-02	8.60E-02	3.73E-03	1.27E-03	5.08E-02	2.60E-03	1.23E-03	1.38E-02	7.34E-02
3.87E-03	1.56E-03	4.43E-02	1.67E-03	2.52E-02	2.52E-02	1.02E-01	3.87E-03	1.56E-03	4.43E-02	1.67E-03	1.03E-03	2.52E-02	7.76E-02
3.65E-03	1.75E-03	3.93E-02	1.53E-03	1.87E-02	1.87E-02	8.37E-02	3.65E-03	1.75E-03	3.93E-02	1.53E-03	8.53E-04	1.87E-02	6.58E-02
3.83E-03	1.96E-03	3.48E-02	1.50E-03	1.71E-02	1.71E-02	7.62E-02	3.83E-03	1.96E-03	3.48E-02	1.50E-03	7.45E-04	1.71E-02	5.99E-02
1.82E-03	1.57E-03	2.70E-02	1.14E-03	1.65E-02	1.65E-02	6.44E-02	1.82E-03	1.57E-03	2.70E-02	1.14E-03	1.03E-03	1.65E-02	4.90E-02
1.54E-03	1.46E-03	2.45E-02	1.07E-03	1.50E-02	1.50E-02	5.86E-02	1.54E-03	1.46E-03	2.45E-02	1.07E-03	1.10E-03	1.50E-02	4.47E-02
1.37E-03	1.35E-03	2.23E-02	1.00E-03	1.35E-02	1.35E-02	5.30E-02	1.37E-03	1.35E-03	2.23E-02	1.00E-03	1.10E-03	1.35E-02	4.06E-02
1.11E-03	1.24E-03	1.76E-02	8.30E-04	1.10E-02	1.10E-02	4.29E-02	1.11E-03	1.24E-03	1.76E-02	8.30E-04	1.03E-03	1.10E-02	3.29E-02
1.06E-03	1.20E-03	1.70E-02	8.10E-04	1.07E-02	1.07E-02	4.15E-02	1.06E-03	1.20E-03	1.70E-02	8.10E-04	1.03E-03	1.07E-02	3.18E-02
1.00E-03	1.17E-03	1.64E-02	7.89E-04	1.03E-02	1.03E-02	4.00E-02	1.00E-03	1.17E-03	1.64E-02	7.89E-04	1.05E-03	1.03E-02	3.07E-02

1.03E-03	1.23E-03	1.60E-02	7.64E-04	1.03E-02	1.03E-02	3.97E-02	1.03E-03	1.23E-03	1.60E-02	7.64E-04	9.80E-04	1.03E-02	3.03E-02
1.15E-03	1.33E-03	1.72E-02	8.04E-04	1.11E-02	1.11E-02	4.27E-02	1.15E-03	1.33E-03	1.72E-02	8.04E-04	9.53E-04	1.11E-02	3.25E-02
1.47E-03	1.47E-03	2.21E-02	9.77E-04	1.35E-02	1.35E-02	5.31E-02	1.47E-03	1.47E-03	2.21E-02	9.77E-04	1.01E-03	1.35E-02	4.06E-02
1.68E-03	1.57E-03	2.45E-02	1.05E-03	1.47E-02	1.47E-02	5.81E-02	1.68E-03	1.57E-03	2.45E-02	1.05E-03	9.88E-04	1.47E-02	4.44E-02
2.10E-03	1.74E-03	2.69E-02	1.13E-03	1.56E-02	1.56E-02	6.31E-02	2.10E-03	1.74E-03	2.69E-02	1.13E-03	8.82E-04	1.56E-02	4.83E-02
3.91E-03	2.13E-03	3.12E-02	1.49E-03	1.67E-02	1.67E-02	7.21E-02	3.91E-03	2.13E-03	3.12E-02	1.49E-03	6.93E-04	1.67E-02	5.61E-02
3.92E-03	2.19E-03	2.99E-02	1.48E-03	1.66E-02	1.66E-02	7.07E-02	3.92E-03	2.19E-03	2.99E-02	1.48E-03	6.78E-04	1.66E-02	5.48E-02
3.72E-03	2.20E-03	2.91E-02	1.43E-03	1.64E-02	1.64E-02	6.93E-02	3.72E-03	2.20E-03	2.91E-02	1.43E-03	6.78E-04	1.64E-02	5.36E-02
3.63E-03	2.16E-03	2.94E-02	1.41E-03	1.64E-02	1.64E-02	6.94E-02	3.63E-03	2.16E-03	2.94E-02	1.41E-03	6.86E-04	1.64E-02	5.37E-02
3.52E-03	2.16E-03	2.90E-02	1.39E-03	1.63E-02	1.63E-02	6.87E-02	3.52E-03	2.16E-03	2.90E-02	1.39E-03	6.86E-04	1.63E-02	5.30E-02
3.75E-03	2.26E-03	2.82E-02	1.43E-03	1.64E-02	1.64E-02	6.84E-02	3.75E-03	2.26E-03	2.82E-02	1.43E-03	6.66E-04	1.64E-02	5.27E-02
3.94E-03	2.31E-03	2.79E-02	1.47E-03	1.65E-02	1.65E-02	6.86E-02	3.94E-03	2.31E-03	2.79E-02	1.47E-03	6.56E-04	1.65E-02	5.28E-02
6.88E-03	2.68E-03	2.68E-02	2.08E-03	1.80E-02	1.80E-02	7.45E-02	6.88E-03	2.68E-03	2.68E-02	2.08E-03	6.12E-04	1.80E-02	5.71E-02
9.24E-03	2.97E-03	2.49E-02	2.54E-03	1.90E-02	1.90E-02	7.76E-02	9.24E-03	2.97E-03	2.49E-02	2.54E-03	5.86E-04	1.90E-02	5.92E-02
6.55E-03	3.07E-03	2.33E-02	2.01E-03	1.84E-02	1.84E-02	7.18E-02	6.55E-03	3.07E-03	2.33E-02	2.01E-03	5.81E-04	1.84E-02	5.39E-02
4.27E-03	2.63E-03	2.45E-02	1.51E-03	1.68E-02	1.68E-02	6.65E-02	4.27E-03	2.63E-03	2.45E-02	1.51E-03	6.13E-04	1.68E-02	5.03E-02
4.69E-03	3.10E-03	2.16E-02	1.58E-03	1.76E-02	1.76E-02	6.62E-02	4.69E-03	3.10E-03	2.16E-02	1.58E-03	5.75E-04	1.76E-02	4.91E-02
4.98E-03	4.20E-03	1.82E-02	1.57E-03	1.96E-02	1.96E-02	6.82E-02	4.98E-03	4.20E-03	1.82E-02	1.57E-03	5.27E-04	1.96E-02	4.91E-02
5.99E-03	1.34E-02	1.42E-02	1.26E-03	2.40E-02	2.40E-02	8.29E-02	5.99E-03	1.34E-02	1.42E-02	1.26E-03	4.68E-04	2.40E-02	5.94E-02
6.45E-03	2.12E-02	1.26E-02	9.81E-04	2.52E-02	2.52E-02	9.16E-02	6.45E-03	2.12E-02	1.26E-02	9.81E-04	4.52E-04	2.52E-02	6.68E-02
6.64E-03	2.81E-02	1.07E-02	7.12E-04	2.56E-02	2.56E-02	9.73E-02	6.64E-03	2.81E-02	1.07E-02	7.12E-04	4.32E-04	2.56E-02	7.21E-02
7.90E-03	3.56E-02	9.97E-03	6.39E-04	2.67E-02	2.67E-02	1.08E-01	7.90E-03	3.56E-02	9.97E-03	6.39E-04	4.25E-04	2.67E-02	8.13E-02
7.42E-03	2.68E-02	1.21E-02	9.20E-04	2.64E-02	2.64E-02	1.00E-01	7.42E-03	2.68E-02	1.21E-02	9.20E-04	4.48E-04	2.64E-02	7.41E-02
5.28E-03	3.83E-03	1.94E-02	1.68E-03	1.92E-02	1.92E-02	6.85E-02	5.28E-03	3.83E-03	1.94E-02	1.68E-03	5.42E-04	1.92E-02	4.98E-02
6.38E-03	4.22E-03	1.94E-02	1.93E-03	2.04E-02	2.04E-02	7.27E-02	6.38E-03	4.22E-03	1.94E-02	1.93E-03	5.33E-04	2.04E-02	5.28E-02
6.44E-03	4.40E-03	1.91E-02	1.93E-03	2.07E-02	2.07E-02	7.32E-02	6.44E-03	4.40E-03	1.91E-02	1.93E-03	5.29E-04	2.07E-02	5.31E-02
9.95E-03	5.32E-03	2.01E-02	2.71E-03	2.34E-02	2.34E-02	8.49E-02	9.95E-03	5.32E-03	2.01E-02	2.71E-03	5.16E-04	2.34E-02	6.20E-02
2.01E-02	8.24E-03	2.29E-02	4.51E-03	2.84E-02	2.84E-02	1.13E-01	2.01E-02	8.24E-03	2.29E-02	4.51E-03	4.93E-04	2.84E-02	8.47E-02
2.18E-02	7.56E-02	1.30E-02	1.05E-03	3.30E-02	3.30E-02	1.77E-01	2.18E-02	7.56E-02	1.30E-02	1.05E-03	4.52E-04	3.30E-02	1.45E-01
2.01E-02	8.48E-02	9.79E-03	6.29E-04	3.19E-02	3.19E-02	1.79E-01	2.01E-02	8.48E-02	9.79E-03	6.29E-04	4.30E-04	3.19E-02	1.48E-01
3.14E-02	7.49E-02	9.07E-03	5.51E-04	3.30E-02	3.30E-02	1.82E-01	3.14E-02	7.49E-02	9.07E-03	5.51E-04	4.24E-04	3.30E-02	1.49E-01
2.97E-02	9.54E-02	8.42E-03	4.90E-04	3.16E-02	3.16E-02	1.97E-01	2.97E-02	9.54E-02	8.42E-03	4.90E-04	4.13E-04	3.16E-02	1.66E-01
2.92E-02	1.03E-01	7.71E-03	4.30E-04	2.98E-02	2.98E-02	2.00E-01	2.92E-02	1.03E-01	7.71E-03	4.30E-04	3.99E-04	2.98E-02	1.70E-01
6.63E-03	2.81E-02	1.06E-02	7.11E-04	2.56E-02	2.56E-02	9.72E-02	6.63E-03	2.81E-02	1.06E-02	7.11E-04	4.32E-04	2.56E-02	7.21E-02
6.98E-03	3.33E-02	9.15E-03	5.45E-04	2.52E-02	2.52E-02	1.00E-01	6.98E-03	3.33E-02	9.15E-03	5.45E-04	4.10E-04	2.52E-02	7.56E-02
1.09E-02	5.13E-02	8.41E-03	4.84E-04	2.70E-02	2.70E-02	1.25E-01	1.09E-02	5.13E-02	8.41E-03	4.84E-04	4.03E-04	2.70E-02	9.85E-02
1.11E-02	5.24E-02	8.24E-03	4.69E-04	2.68E-02	2.68E-02	1.26E-01	1.11E-02	5.24E-02	8.24E-03	4.69E-04	4.00E-04	2.68E-02	9.93E-02
1.25E-02	5.84E-02	8.09E-03	4.57E-04	2.71E-02	2.71E-02	1.34E-01	1.25E-02	5.84E-02	8.09E-03	4.57E-04	3.99E-04	2.71E-02	1.07E-01
1.24E-02	5.76E-02	8.25E-03	4.71E-04	2.74E-02	2.74E-02	1.33E-01	1.24E-02	5.76E-02	8.25E-03	4.71E-04	4.02E-04	2.74E-02	1.06E-01
2.07E-02	8.87E-02	7.76E-03	4.33E-04	2.86E-02	2.86E-02	1.75E-01	2.07E-02	8.87E-02	7.76E-03	4.33E-04	3.97E-04	2.86E-02	1.47E-01
2.14E-02	9.36E-02	7.50E-03	4.11E-04	2.80E-02	2.80E-02	1.79E-01	2.14E-02	9.36E-02	7.50E-03	4.11E-04	3.91E-04	2.80E-02	1.51E-01
1.12E-02	5.31E-02	8.09E-03	4.56E-04	2.66E-02	2.66E-02	1.26E-01	1.12E-02	5.31E-02	8.09E-03	4.56E-04	3.97E-04	2.66E-02	9.98E-02
1.14E-02	5.48E-02	7.88E-03	4.38E-04	2.62E-02	2.62E-02	1.27E-01	1.14E-02	5.48E-02	7.88E-03	4.38E-04	3.93E-04	2.62E-02	1.01E-01
7.24E-03	3.57E-02	8.54E-03	4.87E-04	2.47E-02	2.47E-02	1.01E-01	7.24E-03	3.57E-02	8.54E-03	4.87E-04	4.00E-04	2.47E-02	7.70E-02
7.84E-03	4.09E-02	7.51E-03	4.02E-04	2.33E-02	2.33E-02	1.03E-01	7.84E-03	4.09E-02	7.51E-03	4.02E-04	3.78E-04	2.33E-02	8.03E-02
1.47E-02	7.26E-02	6.88E-03	3.62E-04	2.44E-02	2.44E-02	1.43E-01	1.47E-02	7.26E-02	6.88E-03	3.62E-04	3.71E-04	2.44E-02	1.19E-01
1.57E-02	7.81E-02	6.54E-03	3.39E-04	2.35E-02	2.35E-02	1.48E-01	1.57E-02	7.81E-02	6.54E-03	3.39E-04	3.61E-04	2.35E-02	1.25E-01
8.12E-03	4.32E-02	7.12E-03	3.74E-04	2.25E-02	2.25E-02	1.04E-01	8.12E-03	4.32E-02	7.12E-03	3.74E-04	3.68E-04	2.25E-02	8.17E-02
8.70E-03	4.73E-02	6.48E-03	3.30E-04	2.10E-02	2.10E-02	1.05E-01	8.70E-03	4.73E-02	6.48E-03	3.30E-04	3.50E-04	2.10E-02	8.42E-02
1.53E-02	7.79E-02	6.05E-03	3.07E-04	2.15E-02	2.15E-02	1.43E-01	1.53E-02	7.79E-02	6.05E-03	3.07E-04	3.45E-04	2.15E-02	1.21E-01
1.65E-02	8.40E-02	5.79E-03	2.91E-04	2.07E-02	2.07E-02	1.48E-01	1.65E-02	8.40E-02	5.79E-03	2.91E-04	3.36E-04	2.07E-02	1.28E-01
9.19E-03	5.03E-02	6.17E-03	3.11E-04	2.02E-02	2.02E-02	1.06E-01	9.19E-03	5.03E-02	6.17E-03	3.11E-04	3.41E-04	2.02E-02	8.65E-02
9.65E-03	5.33E-02	5.73E-03	2.84E-04	1.89E-02	1.89E-02	1.07E-01	9.65E-03	5.33E-02	5.73E-03	2.84E-04	3.26E-04	1.89E-02	8.82E-02
8.79E-03	4.95E-02	5.28E-03	2.57E-04	1.71E-02	1.71E-02	9.81E-02	8.79E-03	4.95E-02	5.28E-03	2.57E-04	3.07E-04	1.71E-02	8.13E-02

2.19E-02	1.15E-01	4.85E-03	2.37E-04	1.74E-02	1.74E-02	1.77E-01	2.19E-02	1.15E-01	4.85E-03	2.37E-04	2.98E-04	1.74E-02	1.60E-01
2.22E-02	1.17E-01	4.76E-03	2.32E-04	1.69E-02	1.69E-02	1.78E-01	2.22E-02	1.17E-01	4.76E-03	2.32E-04	2.93E-04	1.69E-02	1.61E-01
9.13E-03	5.13E-02	5.14E-03	2.49E-04	1.67E-02	1.67E-02	9.91E-02	9.13E-03	5.13E-02	5.14E-03	2.49E-04	3.02E-04	1.67E-02	8.27E-02
1.36E-02	7.59E-02	4.11E-03	1.94E-04	1.26E-02	1.26E-02	1.19E-01	1.36E-02	7.59E-02	4.11E-03	1.94E-04	2.57E-04	1.26E-02	1.07E-01
1.26E-02	7.04E-02	4.04E-03	1.90E-04	1.21E-02	1.21E-02	1.11E-01	1.26E-02	7.04E-02	4.04E-03	1.90E-04	2.53E-04	1.21E-02	9.96E-02
8.62E-03	5.11E-02	3.90E-03	1.82E-04	1.12E-02	1.12E-02	8.62E-02	8.62E-03	5.11E-02	3.90E-03	1.82E-04	2.46E-04	1.12E-02	7.52E-02
6.55E-03	3.83E-02	3.71E-03	1.73E-04	1.04E-02	1.04E-02	6.95E-02	6.55E-03	3.83E-02	3.71E-03	1.73E-04	2.37E-04	1.04E-02	5.94E-02
1.21E-02	6.05E-02	3.43E-03	1.60E-04	1.03E-02	1.03E-02	9.67E-02	1.21E-02	6.05E-02	3.43E-03	1.60E-04	2.23E-04	1.03E-02	8.67E-02
6.65E-03	3.84E-02	3.21E-03	1.49E-04	8.91E-03	8.91E-03	6.63E-02	6.65E-03	3.84E-02	3.21E-03	1.49E-04	2.12E-04	8.91E-03	5.76E-02
7.70E-03	4.34E-02	3.16E-03	1.47E-04	8.88E-03	8.88E-03	7.22E-02	7.70E-03	4.34E-02	3.16E-03	1.47E-04	2.09E-04	8.88E-03	6.35E-02
5.78E-03	3.38E-02	3.04E-03	1.41E-04	8.15E-03	8.15E-03	5.91E-02	5.78E-03	3.38E-02	3.04E-03	1.41E-04	2.03E-04	8.15E-03	5.12E-02
3.08E-02	5.89E-02	2.74E-03	1.29E-04	7.98E-03	7.98E-03	1.08E-01	3.08E-02	5.89E-02	2.74E-03	1.29E-04	1.90E-04	7.98E-03	1.01E-01
5.52E-03	2.01E-02	2.54E-03	1.21E-04	7.68E-03	7.68E-03	4.36E-02	5.52E-03	2.01E-02	2.54E-03	1.21E-04	1.82E-04	7.68E-03	3.61E-02
9.24E-03	3.09E-02	2.76E-03	1.31E-04	8.58E-03	8.58E-03	6.02E-02	9.24E-03	3.09E-02	2.76E-03	1.31E-04	1.92E-04	8.58E-03	5.18E-02
1.03E-02	3.39E-02	2.81E-03	1.33E-04	8.80E-03	8.80E-03	6.48E-02	1.03E-02	3.39E-02	2.81E-03	1.33E-04	1.95E-04	8.80E-03	5.62E-02
1.06E-02	3.55E-02	2.88E-03	1.36E-04	9.11E-03	9.11E-03	6.74E-02	1.06E-02	3.55E-02	2.88E-03	1.36E-04	1.98E-04	9.11E-03	5.85E-02
5.35E-03	2.40E-02	2.98E-03	1.41E-04	9.96E-03	9.96E-03	5.24E-02	5.35E-03	2.40E-02	2.98E-03	1.41E-04	2.05E-04	9.96E-03	4.27E-02
1.03E-02	3.79E-02	3.12E-03	1.47E-04	1.02E-02	1.02E-02	7.20E-02	1.03E-02	3.79E-02	3.12E-03	1.47E-04	2.11E-04	1.02E-02	6.19E-02
1.03E-02	3.89E-02	3.26E-03	1.54E-04	1.08E-02	1.08E-02	7.43E-02	1.03E-02	3.89E-02	3.26E-03	1.54E-04	2.18E-04	1.08E-02	6.37E-02
9.07E-03	3.71E-02	3.62E-03	1.72E-04	1.25E-02	1.25E-02	7.51E-02	9.07E-03	3.71E-02	3.62E-03	1.72E-04	2.38E-04	1.25E-02	6.28E-02
1.95E-02	5.90E-02	3.74E-03	1.77E-04	1.26E-02	1.26E-02	1.08E-01	1.95E-02	5.90E-02	3.74E-03	1.77E-04	2.42E-04	1.26E-02	9.53E-02
1.39E-02	4.55E-02	4.57E-03	2.26E-04	1.79E-02	1.79E-02	1.00E-01	1.39E-02	4.55E-02	4.57E-03	2.26E-04	2.96E-04	1.79E-02	8.24E-02
1.43E-02	4.55E-02	4.71E-03	2.34E-04	1.86E-02	1.86E-02	1.02E-01	1.43E-02	4.55E-02	4.71E-03	2.34E-04	3.04E-04	1.86E-02	8.37E-02
1.55E-02	4.84E-02	4.97E-03	2.49E-04	1.97E-02	1.97E-02	1.09E-01	1.55E-02	4.84E-02	4.97E-03	2.49E-04	3.17E-04	1.97E-02	8.91E-02
1.00E-02	3.73E-02	4.94E-03	2.49E-04	2.01E-02	2.01E-02	9.27E-02	1.00E-02	3.73E-02	4.94E-03	2.49E-04	3.19E-04	2.01E-02	7.29E-02
9.69E-03	3.59E-02	6.20E-03	3.27E-04	2.78E-02	2.78E-02	1.08E-01	9.69E-03	3.59E-02	6.20E-03	3.27E-04	3.68E-04	2.78E-02	8.03E-02
1.24E-02	4.23E-02	6.33E-03	3.35E-04	2.79E-02	2.79E-02	1.17E-01	1.24E-02	4.23E-02	6.33E-03	3.35E-04	3.71E-04	2.79E-02	8.96E-02
8.22E-03	1.69E-02	1.15E-02	8.05E-04	4.74E-02	4.74E-02	1.32E-01	8.22E-03	1.69E-02	1.15E-02	8.05E-04	4.46E-04	4.74E-02	8.53E-02
9.45E-04	5.13E-03	5.11E-03	2.49E-04	5.54E-02	5.54E-02	1.22E-01	9.45E-04	5.13E-03	5.11E-03	2.49E-04	3.22E-04	5.54E-02	6.72E-02
1.36E-03	8.03E-03	5.03E-03	2.54E-04	3.09E-02	3.09E-02	7.64E-02	1.36E-03	8.03E-03	5.03E-03	2.54E-04	3.23E-04	3.09E-02	4.59E-02
1.44E-03	8.46E-03	5.13E-03	2.61E-04	3.16E-02	3.16E-02	7.84E-02	1.44E-03	8.46E-03	5.13E-03	2.61E-04	3.28E-04	3.16E-02	4.72E-02
1.54E-03	9.09E-03	5.11E-03	2.62E-04	3.02E-02	3.02E-02	7.64E-02	1.54E-03	9.09E-03	5.11E-03	2.62E-04	3.30E-04	3.02E-02	4.65E-02
9.70E-04	5.89E-03	4.32E-03	2.10E-04	2.64E-02	2.64E-02	6.43E-02	9.70E-04	5.89E-03	4.32E-03	2.10E-04	2.87E-04	2.64E-02	3.81E-02
5.88E-04	2.83E-03	4.13E-03	2.00E-04	7.35E-02	7.35E-02	1.55E-01	5.88E-04	2.83E-03	4.13E-03	2.00E-04	3.03E-04	7.35E-02	8.16E-02
5.23E-04	2.52E-03	3.58E-03	1.73E-04	7.39E-02	7.39E-02	1.55E-01	5.23E-04	2.52E-03	3.58E-03	1.73E-04	2.43E-04	7.39E-02	8.09E-02
7.51E-04	4.52E-03	3.80E-03	1.82E-04	2.82E-02	2.82E-02	6.57E-02	7.51E-04	4.52E-03	3.80E-03	1.82E-04	2.58E-04	2.82E-02	3.77E-02
4.40E-04	2.32E-03	2.46E-03	1.19E-04	1.98E-02	1.98E-02	4.50E-02	4.40E-04	2.32E-03	2.46E-03	1.19E-04	1.78E-04	1.98E-02	2.54E-02
3.61E-04	1.71E-03	2.38E-03	1.17E-04	1.92E-02	1.92E-02	4.30E-02	3.61E-04	1.71E-03	2.38E-03	1.17E-04	1.69E-04	1.92E-02	2.40E-02
3.51E-04	1.67E-03	2.31E-03	1.14E-04	1.42E-02	1.42E-02	3.29E-02	3.51E-04	1.67E-03	2.31E-03	1.14E-04	1.64E-04	1.42E-02	1.88E-02
2.96E-04	1.20E-03	2.21E-03	1.10E-04	8.10E-03	8.10E-03	2.00E-02	2.96E-04	1.20E-03	2.21E-03	1.10E-04	1.57E-04	8.10E-03	1.21E-02
4.83E-04	1.70E-03	4.52E-03	2.14E-04	3.22E-02	3.22E-02	7.13E-02	4.83E-04	1.70E-03	4.52E-03	2.14E-04	2.71E-04	3.22E-02	3.94E-02
3.31E-04	8.92E-04	3.98E-03	1.84E-04	7.73E-03	7.73E-03	2.09E-02	3.31E-04	8.92E-04	3.98E-03	1.84E-04	2.65E-04	7.73E-03	1.34E-02
7.06E-04	9.01E-04	1.46E-02	5.08E-04	1.78E-02	1.78E-02	5.23E-02	7.06E-04	9.01E-04	1.46E-02	5.08E-04	8.29E-04	1.78E-02	3.53E-02
4.08E-04	8.02E-04	8.08E-03	3.27E-04	8.44E-03	8.44E-03	2.65E-02	4.08E-04	8.02E-04	8.08E-03	3.27E-04	6.30E-04	8.44E-03	1.87E-02
4.86E-04	7.98E-04	1.04E-02	4.01E-04	1.51E-02	1.51E-02	4.23E-02	4.86E-04	7.98E-04	1.04E-02	4.01E-04	8.11E-04	1.51E-02	2.80E-02
3.55E-04	7.69E-04	6.95E-03	2.88E-04	8.12E-03	8.12E-03	2.46E-02	3.55E-04	7.69E-04	6.95E-03	2.88E-04	5.67E-04	8.12E-03	1.70E-02
4.03E-04	7.92E-04	8.44E-03	3.37E-04	1.49E-02	1.49E-02	3.97E-02	4.03E-04	7.92E-04	8.44E-03	3.37E-04	6.69E-04	1.49E-02	2.55E-02
3.47E-04	7.77E-04	6.65E-03	2.73E-04	7.60E-03	7.60E-03	2.32E-02	3.47E-04	7.77E-04	6.65E-03	2.73E-04	5.14E-04	7.60E-03	1.62E-02
5.34E-04	1.02E-03	1.14E-02	4.01E-04	1.55E-02	1.55E-02	4.44E-02	5.34E-04	1.02E-03	1.14E-02	4.01E-04	6.94E-04	1.55E-02	2.95E-02
4.51E-04	1.01E-03	8.89E-03	3.29E-04	8.13E-03	8.13E-03	2.69E-02	4.51E-04	1.01E-03	8.89E-03	3.29E-04	5.44E-04	8.13E-03	1.94E-02
4.29E-03	1.01E-02	5.79E-03	3.55E-04	1.08E-03	1.08E-03	2.27E-02	4.29E-03	1.01E-02	5.79E-03	3.55E-04	2.03E-04	1.08E-03	2.19E-02
5.53E-03	2.03E-02	3.29E-03	1.89E-04	9.54E-04	9.54E-04	3.12E-02	5.53E-03	2.03E-02	3.29E-03	1.89E-04	1.95E-04	9.54E-04	3.05E-02
7.85E-03	2.78E-02	2.59E-03	1.51E-04	8.56E-04	8.56E-04	4.01E-02	7.85E-03	2.78E-02	2.59E-03	1.51E-04	1.87E-04	8.56E-04	3.95E-02
1.02E-02	3.22E-02	2.36E-03	1.38E-04	8.11E-04	8.11E-04	4.65E-02	1.02E-02	3.22E-02	2.36E-03	1.38E-04	1.78E-04	8.11E-04	4.58E-02

8.40E-03	3.22E-02	1.41E-03	8.12E-05	5.84E-04	5.84E-04	4.33E-02	8.40E-03	3.22E-02	1.41E-03	8.12E-05	1.19E-04	5.84E-04	4.28E-02
7.18E-03	3.40E-02	1.32E-03	7.51E-05	5.60E-04	5.60E-04	4.36E-02	7.18E-03	3.40E-02	1.32E-03	7.51E-05	1.09E-04	5.60E-04	4.32E-02
6.53E-03	3.17E-02	1.30E-03	7.26E-05	5.51E-04	5.51E-04	4.07E-02	6.53E-03	3.17E-02	1.30E-03	7.26E-05	1.05E-04	5.51E-04	4.03E-02
6.76E-03	3.18E-02	1.20E-03	6.11E-05	5.00E-04	5.00E-04	4.08E-02	6.76E-03	3.18E-02	1.20E-03	6.11E-05	8.23E-05	5.00E-04	4.04E-02
9.16E-03	3.74E-02	1.19E-03	6.13E-05	4.98E-04	4.98E-04	4.88E-02	9.16E-03	3.74E-02	1.19E-03	6.13E-05	8.33E-05	4.98E-04	4.83E-02
8.01E-03	3.95E-02	4.21E-04	2.74E-05	2.92E-04	2.92E-04	4.86E-02	8.01E-03	3.95E-02	4.21E-04	2.74E-05	4.14E-05	2.92E-04	4.83E-02
9.61E-03	5.26E-02	3.99E-04	2.55E-05	2.57E-04	2.57E-04	6.32E-02	9.61E-03	5.26E-02	3.99E-04	2.55E-05	3.94E-05	2.57E-04	6.30E-02
1.03E-02	5.39E-02	3.98E-04	2.52E-05	2.49E-04	2.49E-04	6.51E-02	1.03E-02	5.39E-02	3.98E-04	2.52E-05	3.91E-05	2.49E-04	6.49E-02
9.00E-03	5.15E-02	4.00E-04	2.50E-05	2.39E-04	2.39E-04	6.14E-02	9.00E-03	5.15E-02	4.00E-04	2.50E-05	3.89E-05	2.39E-04	6.12E-02
7.28E-03	4.54E-02	3.92E-04	2.39E-05	2.11E-04	2.11E-04	5.35E-02	7.28E-03	4.54E-02	3.92E-04	2.39E-05	3.78E-05	2.11E-04	5.33E-02
5.84E-03	3.74E-02	3.95E-04	2.40E-05	2.12E-04	2.12E-04	4.41E-02	5.84E-03	3.74E-02	3.95E-04	2.40E-05	3.81E-05	2.12E-04	4.39E-02
4.08E-03	2.38E-02	3.48E-04	2.18E-05	1.83E-04	1.83E-04	2.86E-02	4.08E-03	2.38E-02	3.48E-04	2.18E-05	3.55E-05	1.83E-04	2.85E-02
9.59E-03	5.81E-02	3.61E-04	2.23E-05	1.91E-04	1.91E-04	6.85E-02	9.59E-03	5.81E-02	3.61E-04	2.23E-05	3.61E-05	1.91E-04	6.83E-02
7.32E-03	3.97E-02	3.75E-04	2.28E-05	1.99E-04	1.99E-04	4.78E-02	7.32E-03	3.97E-02	3.75E-04	2.28E-05	3.68E-05	1.99E-04	4.76E-02
7.06E-03	3.42E-02	3.75E-04	2.27E-05	2.00E-04	2.00E-04	4.21E-02	7.06E-03	3.42E-02	3.75E-04	2.27E-05	3.66E-05	2.00E-04	4.19E-02
9.22E-03	3.94E-02	3.68E-04	2.23E-05	1.96E-04	1.96E-04	4.94E-02	9.22E-03	3.94E-02	3.68E-04	2.23E-05	3.59E-05	1.96E-04	4.92E-02
1.32E-02	4.49E-02	3.18E-04	1.93E-05	1.74E-04	1.74E-04	5.87E-02	1.32E-02	4.49E-02	3.18E-04	1.93E-05	3.10E-05	1.74E-04	5.86E-02
2.84E-02	8.58E-02	3.14E-04	1.92E-05	1.72E-04	1.72E-04	1.15E-01	2.84E-02	8.58E-02	3.14E-04	1.92E-05	3.09E-05	1.72E-04	1.15E-01
2.88E-02	7.92E-02	3.20E-04	1.95E-05	1.75E-04	1.75E-04	1.09E-01	2.88E-02	7.92E-02	3.20E-04	1.95E-05	3.14E-05	1.75E-04	1.09E-01
2.93E-02	1.03E-01	3.25E-04	1.98E-05	1.77E-04	1.77E-04	1.33E-01	2.93E-02	1.03E-01	3.25E-04	1.98E-05	3.19E-05	1.77E-04	1.33E-01
2.99E-02	8.82E-02	3.27E-04	1.99E-05	1.78E-04	1.78E-04	1.19E-01	2.99E-02	8.82E-02	3.27E-04	1.99E-05	3.22E-05	1.78E-04	1.19E-01
3.00E-02	1.02E-01	3.27E-04	2.00E-05	1.77E-04	1.77E-04	1.33E-01	3.00E-02	1.02E-01	3.27E-04	2.00E-05	3.24E-05	1.77E-04	1.33E-01
3.06E-02	1.02E-01	3.29E-04	2.02E-05	1.78E-04	1.78E-04	1.33E-01	3.06E-02	1.02E-01	3.29E-04	2.02E-05	3.28E-05	1.78E-04	1.33E-01
3.16E-02	1.03E-01	3.36E-04	2.06E-05	1.81E-04	1.81E-04	1.35E-01	3.16E-02	1.03E-01	3.36E-04	2.06E-05	3.34E-05	1.81E-04	1.35E-01
3.22E-02	1.03E-01	3.45E-04	2.11E-05	1.85E-04	1.85E-04	1.36E-01	3.22E-02	1.03E-01	3.45E-04	2.11E-05	3.40E-05	1.85E-04	1.35E-01
2.72E-02	9.88E-02	3.56E-04	2.17E-05	1.91E-04	1.91E-04	1.27E-01	2.72E-02	9.88E-02	3.56E-04	2.17E-05	3.50E-05	1.91E-04	1.27E-01
2.83E-02	1.01E-01	3.59E-04	2.20E-05	1.92E-04	1.92E-04	1.30E-01	2.83E-02	1.01E-01	3.59E-04	2.20E-05	3.55E-05	1.92E-04	1.30E-01
2.35E-02	8.51E-02	3.58E-04	2.22E-05	1.93E-04	1.93E-04	1.09E-01	2.35E-02	8.51E-02	3.58E-04	2.22E-05	3.57E-05	1.93E-04	1.09E-01
2.70E-02	9.43E-02	3.67E-04	2.26E-05	2.00E-04	2.00E-04	1.22E-01	2.70E-02	9.43E-02	3.67E-04	2.26E-05	3.63E-05	2.00E-04	1.22E-01
3.34E-02	1.13E-01	3.75E-04	2.32E-05	2.10E-04	2.10E-04	1.47E-01	3.34E-02	1.13E-01	3.75E-04	2.32E-05	3.69E-05	2.10E-04	1.47E-01
3.07E-02	1.08E-01	3.83E-04	2.37E-05	2.19E-04	2.19E-04	1.40E-01	3.07E-02	1.08E-01	3.83E-04	2.37E-05	3.74E-05	2.19E-04	1.39E-01
3.06E-02	1.10E-01	3.87E-04	2.41E-05	2.28E-04	2.28E-04	1.41E-01	3.06E-02	1.10E-01	3.87E-04	2.41E-05	3.77E-05	2.28E-04	1.41E-01
3.20E-02	1.24E-01	3.80E-04	2.38E-05	2.27E-04	2.27E-04	1.56E-01	3.20E-02	1.24E-01	3.80E-04	2.38E-05	3.75E-05	2.27E-04	1.56E-01
3.16E-02	1.29E-01	3.78E-04	2.39E-05	2.31E-04	2.31E-04	1.61E-01	3.16E-02	1.29E-01	3.78E-04	2.39E-05	3.76E-05	2.31E-04	1.61E-01
4.14E-02	1.20E-01	3.79E-04	2.44E-05	2.49E-04	2.49E-04	1.62E-01	4.14E-02	1.20E-01	3.79E-04	2.44E-05	3.83E-05	2.49E-04	1.62E-01
4.12E-02	1.28E-01	3.84E-04	2.48E-05	2.59E-04	2.59E-04	1.70E-01	4.12E-02	1.28E-01	3.84E-04	2.48E-05	3.87E-05	2.59E-04	1.70E-01
3.80E-02	9.96E-02	3.90E-04	2.53E-05	2.69E-04	2.69E-04	1.38E-01	3.80E-02	9.96E-02	3.90E-04	2.53E-05	3.92E-05	2.69E-04	1.38E-01
3.79E-02	1.05E-01	3.94E-04	2.56E-05	2.76E-04	2.76E-04	1.43E-01	3.79E-02	1.05E-01	3.94E-04	2.56E-05	3.96E-05	2.76E-04	1.43E-01
3.78E-02	1.14E-01	4.04E-04	2.63E-05	2.90E-04	2.90E-04	1.52E-01	3.78E-02	1.14E-01	4.04E-04	2.63E-05	4.03E-05	2.90E-04	1.52E-01
3.83E-02	1.07E-01	4.07E-04	2.65E-05	2.94E-04	2.94E-04	1.46E-01	3.83E-02	1.07E-01	4.07E-04	2.65E-05	4.06E-05	2.94E-04	1.46E-01
3.81E-02	1.05E-01	4.12E-04	2.69E-05	3.01E-04	3.01E-04	1.44E-01	3.81E-02	1.05E-01	4.12E-04	2.69E-05	4.10E-05	3.01E-04	1.43E-01
3.82E-02	1.02E-01	4.16E-04	2.71E-05	3.05E-04	3.05E-04	1.41E-01	3.82E-02	1.02E-01	4.16E-04	2.71E-05	4.14E-05	3.05E-04	1.41E-01
3.59E-02	9.51E-02	4.13E-04	2.68E-05	3.02E-04	3.02E-04	1.32E-01	3.59E-02	9.51E-02	4.13E-04	2.68E-05	4.15E-05	3.02E-04	1.32E-01
3.81E-02	9.24E-02	4.27E-04	2.78E-05	3.18E-04	3.18E-04	1.32E-01	3.81E-02	9.24E-02	4.27E-04	2.78E-05	4.21E-05	3.18E-04	1.31E-01
3.81E-02	9.41E-02	4.32E-04	2.79E-05	3.23E-04	3.23E-04	1.33E-01	3.81E-02	9.41E-02	4.32E-04	2.79E-05	4.24E-05	3.23E-04	1.33E-01
3.92E-02	9.01E-02	4.45E-04	2.87E-05	3.35E-04	3.35E-04	1.30E-01	3.92E-02	9.01E-02	4.45E-04	2.87E-05	4.29E-05	3.35E-04	1.30E-01
3.90E-02	8.96E-02	4.52E-04	2.90E-05	3.40E-04	3.40E-04	1.30E-01	3.90E-02	8.96E-02	4.52E-04	2.90E-05	4.32E-05	3.40E-04	1.29E-01
2.57E-02	1.13E-01	4.78E-04	2.98E-05	3.54E-04	3.54E-04	1.40E-01	2.57E-02	1.13E-01	4.78E-04	2.98E-05	4.37E-05	3.54E-04	1.39E-01
2.63E-02	1.21E-01	4.77E-04	2.93E-05	3.47E-04	3.47E-04	1.48E-01	2.63E-02	1.21E-01	4.77E-04	2.93E-05	4.38E-05	3.47E-04	1.48E-01
2.64E-02	1.17E-01	4.93E-04	3.00E-05	3.55E-04	3.55E-04	1.45E-01	2.64E-02	1.17E-01	4.93E-04	3.00E-05	4.42E-05	3.55E-04	1.45E-01
2.66E-02	1.22E-01	4.98E-04	2.98E-05	3.51E-04	3.51E-04	1.50E-01	2.66E-02	1.22E-01	4.98E-04	2.98E-05	4.43E-05	3.51E-04	1.50E-01
2.67E-02	1.09E-01	5.05E-04	2.96E-05	3.47E-04	3.47E-04	1.37E-01	2.67E-02	1.09E-01	5.05E-04	2.96E-05	4.45E-05	3.47E-04	1.37E-01
2.70E-02	1.10E-01	5.20E-04	3.01E-05	3.51E-04	3.51E-04	1.38E-01	2.70E-02	1.10E-01	5.20E-04	3.01E-05	4.48E-05	3.51E-04	1.38E-01
2.71E-02	1.09E-01	5.39E-04	3.06E-05	3.55E-04	3.55E-04	1.38E-01	2.71E-02	1.09E-01	5.39E-04	3.06E-05	4.51E-05	3.55E-04	1.37E-01

2.71E-02	1.09E-01	5.58E-04	3.12E-05	3.59E-04	3.59E-04	1.37E-01	2.71E-02	1.09E-01	5.58E-04	3.12E-05	4.56E-05	3.59E-04	1.37E-01
2.07E-02	9.96E-02	6.11E-04	3.25E-05	3.67E-04	3.67E-04	1.22E-01	2.07E-02	9.96E-02	6.11E-04	3.25E-05	4.62E-05	3.67E-04	1.21E-01
2.05E-02	9.89E-02	6.38E-04	3.34E-05	3.72E-04	3.72E-04	1.21E-01	2.05E-02	9.89E-02	6.38E-04	3.34E-05	4.68E-05	3.72E-04	1.20E-01
2.03E-02	9.79E-02	6.67E-04	3.43E-05	3.77E-04	3.77E-04	1.20E-01	2.03E-02	9.79E-02	6.67E-04	3.43E-05	4.75E-05	3.77E-04	1.19E-01
1.99E-02	9.57E-02	6.99E-04	3.53E-05	3.84E-04	3.84E-04	1.17E-01	1.99E-02	9.57E-02	6.99E-04	3.53E-05	4.84E-05	3.84E-04	1.17E-01
1.94E-02	9.25E-02	7.32E-04	3.65E-05	3.92E-04	3.92E-04	1.13E-01	1.94E-02	9.25E-02	7.32E-04	3.65E-05	5.04E-05	3.92E-04	1.13E-01
1.96E-02	9.59E-02	7.58E-04	3.73E-05	3.92E-04	3.92E-04	1.17E-01	1.96E-02	9.59E-02	7.58E-04	3.73E-05	5.02E-05	3.92E-04	1.17E-01
1.12E-02	6.07E-02	7.99E-04	3.83E-05	3.94E-04	3.94E-04	7.35E-02	1.12E-02	6.07E-02	7.99E-04	3.83E-05	5.19E-05	3.94E-04	7.31E-02
7.88E-03	4.62E-02	8.29E-04	3.93E-05	3.91E-04	3.91E-04	5.58E-02	7.88E-03	4.62E-02	8.29E-04	3.93E-05	5.31E-05	3.91E-04	5.54E-02
7.96E-03	4.70E-02	8.51E-04	4.04E-05	3.94E-04	3.94E-04	5.66E-02	7.96E-03	4.70E-02	8.51E-04	4.04E-05	5.44E-05	3.94E-04	5.63E-02
8.03E-03	4.80E-02	8.69E-04	4.12E-05	3.93E-04	3.93E-04	5.77E-02	8.03E-03	4.80E-02	8.69E-04	4.12E-05	5.58E-05	3.93E-04	5.73E-02
8.02E-03	4.82E-02	8.85E-04	4.20E-05	3.89E-04	3.89E-04	5.79E-02	8.02E-03	4.82E-02	8.85E-04	4.20E-05	5.59E-05	3.89E-04	5.76E-02
8.02E-03	4.83E-02	9.02E-04	4.31E-05	3.89E-04	3.89E-04	5.81E-02	8.02E-03	4.83E-02	9.02E-04	4.31E-05	5.74E-05	3.89E-04	5.77E-02
8.09E-03	4.87E-02	9.20E-04	4.43E-05	3.91E-04	3.91E-04	5.85E-02	8.09E-03	4.87E-02	9.20E-04	4.43E-05	5.93E-05	3.91E-04	5.82E-02
7.70E-03	4.69E-02	9.49E-04	4.69E-05	3.95E-04	3.95E-04	5.64E-02	7.70E-03	4.69E-02	9.49E-04	4.69E-05	6.38E-05	3.95E-04	5.60E-02
7.36E-03	4.53E-02	9.63E-04	4.85E-05	3.99E-04	3.99E-04	5.44E-02	7.36E-03	4.53E-02	9.63E-04	4.85E-05	6.68E-05	3.99E-04	5.41E-02
1.02E-02	5.91E-02	9.94E-04	4.97E-05	4.11E-04	4.11E-04	7.12E-02	1.02E-02	5.91E-02	9.94E-04	4.97E-05	6.76E-05	4.11E-04	7.08E-02
1.82E-02	9.44E-02	1.03E-03	5.10E-05	4.31E-04	4.31E-04	1.15E-01	1.82E-02	9.44E-02	1.03E-03	5.10E-05	6.90E-05	4.31E-04	1.14E-01
1.82E-02	9.42E-02	1.05E-03	5.26E-05	4.41E-04	4.41E-04	1.14E-01	1.82E-02	9.42E-02	1.05E-03	5.26E-05	7.15E-05	4.41E-04	1.14E-01
1.83E-02	9.38E-02	1.07E-03	5.42E-05	4.50E-04	4.50E-04	1.14E-01	1.83E-02	9.38E-02	1.07E-03	5.42E-05	7.42E-05	4.50E-04	1.14E-01
1.82E-02	9.28E-02	1.09E-03	5.58E-05	4.59E-04	4.59E-04	1.13E-01	1.82E-02	9.28E-02	1.09E-03	5.58E-05	7.69E-05	4.59E-04	1.13E-01
1.84E-02	9.39E-02	1.10E-03	5.74E-05	4.65E-04	4.65E-04	1.14E-01	1.84E-02	9.39E-02	1.10E-03	5.74E-05	7.98E-05	4.65E-04	1.14E-01
1.88E-02	9.88E-02	1.11E-03	5.90E-05	4.69E-04	4.69E-04	1.20E-01	1.88E-02	9.88E-02	1.11E-03	5.90E-05	8.29E-05	4.69E-04	1.19E-01
1.86E-02	1.01E-01	1.13E-03	6.22E-05	4.81E-04	4.81E-04	1.22E-01	1.86E-02	1.01E-01	1.13E-03	6.22E-05	8.94E-05	4.81E-04	1.21E-01
1.82E-02	9.98E-02	1.14E-03	6.38E-05	4.89E-04	4.89E-04	1.20E-01	1.82E-02	9.98E-02	1.14E-03	6.38E-05	9.26E-05	4.89E-04	1.20E-01
1.78E-02	9.87E-02	1.16E-03	6.69E-05	5.05E-04	5.05E-04	1.19E-01	1.78E-02	9.87E-02	1.16E-03	6.69E-05	9.92E-05	5.05E-04	1.18E-01
1.77E-02	9.92E-02	1.17E-03	6.85E-05	5.11E-04	5.11E-04	1.19E-01	1.77E-02	9.92E-02	1.17E-03	6.85E-05	1.03E-04	5.11E-04	1.19E-01
1.76E-02	9.90E-02	1.18E-03	7.01E-05	5.17E-04	5.17E-04	1.19E-01	1.76E-02	9.90E-02	1.18E-03	7.01E-05	1.06E-04	5.17E-04	1.18E-01
1.41E-02	7.44E-02	1.20E-03	7.37E-05	5.26E-04	5.26E-04	9.08E-02	1.41E-02	7.44E-02	1.20E-03	7.37E-05	1.14E-04	5.26E-04	9.04E-02
1.75E-02	8.23E-02	1.23E-03	7.56E-05	5.36E-04	5.36E-04	1.02E-01	1.75E-02	8.23E-02	1.23E-03	7.56E-05	1.16E-04	5.36E-04	1.02E-01
2.01E-02	9.12E-02	1.27E-03	7.77E-05	5.45E-04	5.45E-04	1.14E-01	2.01E-02	9.12E-02	1.27E-03	7.77E-05	1.19E-04	5.45E-04	1.13E-01
1.92E-02	9.30E-02	1.30E-03	7.99E-05	5.54E-04	5.54E-04	1.15E-01	1.92E-02	9.30E-02	1.30E-03	7.99E-05	1.22E-04	5.54E-04	1.14E-01
1.90E-02	9.72E-02	1.34E-03	8.22E-05	5.63E-04	5.63E-04	1.19E-01	1.90E-02	9.72E-02	1.34E-03	8.22E-05	1.25E-04	5.63E-04	1.18E-01
1.90E-02	9.77E-02	1.38E-03	8.47E-05	5.71E-04	5.71E-04	1.19E-01	1.90E-02	9.77E-02	1.38E-03	8.47E-05	1.29E-04	5.71E-04	1.19E-01
1.89E-02	9.67E-02	1.42E-03	8.73E-05	5.80E-04	5.80E-04	1.18E-01	1.89E-02	9.67E-02	1.42E-03	8.73E-05	1.32E-04	5.80E-04	1.18E-01
1.90E-02	9.66E-02	1.46E-03	9.01E-05	5.91E-04	5.91E-04	1.18E-01	1.90E-02	9.66E-02	1.46E-03	9.01E-05	1.35E-04	5.91E-04	1.18E-01
1.89E-02	9.59E-02	1.50E-03	9.31E-05	5.97E-04	5.97E-04	1.18E-01	1.89E-02	9.59E-02	1.50E-03	9.31E-05	1.39E-04	5.97E-04	1.17E-01
1.91E-02	9.62E-02	1.56E-03	9.62E-05	6.11E-04	6.11E-04	1.18E-01	1.91E-02	9.62E-02	1.56E-03	9.62E-05	1.43E-04	6.11E-04	1.18E-01
1.93E-02	9.63E-02	1.62E-03	9.94E-05	6.28E-04	6.28E-04	1.19E-01	1.93E-02	9.63E-02	1.62E-03	9.94E-05	1.47E-04	6.28E-04	1.18E-01
1.95E-02	9.57E-02	1.68E-03	1.03E-04	6.48E-04	6.48E-04	1.18E-01	1.95E-02	9.57E-02	1.68E-03	1.03E-04	1.51E-04	6.48E-04	1.18E-01
1.97E-02	9.08E-02	1.74E-03	1.06E-04	6.69E-04	6.69E-04	1.14E-01	1.97E-02	9.08E-02	1.74E-03	1.06E-04	1.55E-04	6.69E-04	1.13E-01
1.98E-02	9.25E-02	1.80E-03	1.09E-04	6.88E-04	6.88E-04	1.16E-01	1.98E-02	9.25E-02	1.80E-03	1.09E-04	1.59E-04	6.88E-04	1.15E-01
1.98E-02	8.90E-02	1.87E-03	1.13E-04	7.10E-04	7.10E-04	1.12E-01	1.98E-02	8.90E-02	1.87E-03	1.13E-04	1.63E-04	7.10E-04	1.12E-01
2.01E-02	9.22E-02	1.93E-03	1.18E-04	7.28E-04	7.28E-04	1.16E-01	2.01E-02	9.22E-02	1.93E-03	1.18E-04	1.68E-04	7.28E-04	1.15E-01
2.05E-02	9.38E-02	2.11E-03	1.29E-04	7.80E-04	7.80E-04	1.18E-01	2.05E-02	9.38E-02	2.11E-03	1.29E-04	1.81E-04	7.80E-04	1.18E-01
2.04E-02	9.32E-02	2.20E-03	1.35E-04	8.05E-04	8.05E-04	1.18E-01	2.04E-02	9.32E-02	2.20E-03	1.35E-04	1.87E-04	8.05E-04	1.17E-01
2.05E-02	9.43E-02	2.30E-03	1.41E-04	8.30E-04	8.30E-04	1.19E-01	2.05E-02	9.43E-02	2.30E-03	1.41E-04	1.93E-04	8.30E-04	1.18E-01
2.05E-02	9.36E-02	2.42E-03	1.48E-04	8.53E-04	8.53E-04	1.18E-01	2.05E-02	9.36E-02	2.42E-03	1.48E-04	2.00E-04	8.53E-04	1.18E-01
2.00E-02	8.70E-02	2.55E-03	1.56E-04	8.78E-04	8.78E-04	1.11E-01	2.00E-02	8.70E-02	2.55E-03	1.56E-04	2.07E-04	8.78E-04	1.11E-01
1.63E-02	8.12E-02	2.94E-03	1.79E-04	9.29E-04	9.29E-04	1.02E-01	1.63E-02	8.12E-02	2.94E-03	1.79E-04	2.20E-04	9.29E-04	1.02E-01
1.65E-02	8.22E-02	3.21E-03	1.95E-04	9.62E-04	9.62E-04	1.04E-01	1.65E-02	8.22E-02	3.21E-03	1.95E-04	2.25E-04	9.62E-04	1.03E-01
1.57E-02	7.61E-02	3.56E-03	2.15E-04	9.97E-04	9.97E-04	9.75E-02	1.57E-02	7.61E-02	3.56E-03	2.15E-04	2.29E-04	9.97E-04	9.68E-02
1.36E-02	6.86E-02	4.06E-03	2.43E-04	1.03E-03	1.03E-03	8.86E-02	1.36E-02	6.86E-02	4.06E-03	2.43E-04	2.33E-04	1.03E-03	8.78E-02
1.20E-02	5.73E-02	6.25E-03	2.89E-04	1.07E-03	1.07E-03	7.80E-02	1.20E-02	5.73E-02	6.25E-03	2.89E-04	2.37E-04	1.07E-03	7.71E-02

1.09E-02	1.59E-02	1.18E-02	4.60E-04	1.09E-03	1.09E-03	4.12E-02	1.09E-02	1.59E-02	1.18E-02	4.60E-04	2.43E-04	1.09E-03	4.04E-02
9.77E-03	8.20E-03	1.18E-02	1.41E-03	1.12E-03	1.12E-03	3.34E-02	9.77E-03	8.20E-03	1.18E-02	1.41E-03	2.49E-04	1.12E-03	3.25E-02
8.88E-03	5.90E-03	1.25E-02	1.75E-03	1.15E-03	1.15E-03	3.13E-02	8.88E-03	5.90E-03	1.25E-02	1.75E-03	2.57E-04	1.15E-03	3.04E-02
8.21E-03	4.72E-03	1.47E-02	1.77E-03	1.17E-03	1.17E-03	3.17E-02	8.21E-03	4.72E-03	1.47E-02	1.77E-03	2.66E-04	1.17E-03	3.08E-02
4.59E-03	3.42E-03	1.60E-02	1.20E-03	1.16E-03	1.16E-03	2.75E-02	4.59E-03	3.42E-03	1.60E-02	1.20E-03	3.13E-04	1.16E-03	2.67E-02
3.66E-03	3.46E-03	1.44E-02	1.04E-03	1.19E-03	1.19E-03	2.50E-02	3.66E-03	3.46E-03	1.44E-02	1.04E-03	3.38E-04	1.19E-03	2.41E-02
3.04E-03	3.45E-03	1.30E-02	9.18E-04	1.20E-03	1.20E-03	2.28E-02	3.04E-03	3.45E-03	1.30E-02	9.18E-04	3.68E-04	1.20E-03	2.20E-02
3.12E-03	3.03E-03	1.51E-02	9.24E-04	1.27E-03	1.27E-03	2.47E-02	3.12E-03	3.03E-03	1.51E-02	9.24E-04	4.01E-04	1.27E-03	2.38E-02
4.12E-03	2.72E-03	1.87E-02	1.02E-03	1.34E-03	1.34E-03	2.92E-02	4.12E-03	2.72E-03	1.87E-02	1.02E-03	4.05E-04	1.34E-03	2.83E-02
6.62E-03	2.26E-03	2.18E-02	1.14E-03	1.41E-03	1.41E-03	3.47E-02	6.62E-03	2.26E-03	2.18E-02	1.14E-03	4.51E-04	1.41E-03	3.37E-02
6.89E-03	2.11E-03	2.12E-02	1.15E-03	1.43E-03	1.43E-03	3.43E-02	6.89E-03	2.11E-03	2.12E-02	1.15E-03	4.81E-04	1.43E-03	3.33E-02
7.20E-03	1.96E-03	2.06E-02	1.18E-03	1.48E-03	1.48E-03	3.39E-02	7.20E-03	1.96E-03	2.06E-02	1.18E-03	5.15E-04	1.48E-03	3.29E-02
7.62E-03	1.83E-03	2.00E-02	1.24E-03	1.55E-03	1.55E-03	3.38E-02	7.62E-03	1.83E-03	2.00E-02	1.24E-03	5.48E-04	1.55E-03	3.28E-02
8.11E-03	1.70E-03	1.96E-02	1.33E-03	1.65E-03	1.65E-03	3.41E-02	8.11E-03	1.70E-03	1.96E-02	1.33E-03	5.75E-04	1.65E-03	3.30E-02
8.62E-03	1.59E-03	1.97E-02	1.47E-03	1.76E-03	1.76E-03	3.49E-02	8.62E-03	1.59E-03	1.97E-02	1.47E-03	5.95E-04	1.76E-03	3.37E-02
9.45E-03	1.51E-03	2.06E-02	1.77E-03	1.92E-03	1.92E-03	3.71E-02	9.45E-03	1.51E-03	2.06E-02	1.77E-03	6.26E-04	1.92E-03	3.58E-02
9.69E-03	1.42E-03	2.22E-02	3.05E-03	2.25E-03	2.25E-03	4.08E-02	9.69E-03	1.42E-03	2.22E-02	3.05E-03	7.17E-04	2.25E-03	3.93E-02
9.84E-03	1.42E-03	2.34E-02	3.97E-03	2.49E-03	2.49E-03	4.36E-02	9.84E-03	1.42E-03	2.34E-02	3.97E-03	8.10E-04	2.49E-03	4.19E-02
9.66E-03	1.40E-03	2.36E-02	4.79E-03	2.66E-03	2.66E-03	4.47E-02	9.66E-03	1.40E-03	2.36E-02	4.79E-03	8.70E-04	2.66E-03	4.29E-02
9.61E-03	1.40E-03	2.45E-02	6.20E-03	2.92E-03	2.92E-03	4.75E-02	9.61E-03	1.40E-03	2.45E-02	6.20E-03	9.80E-04	2.92E-03	4.56E-02
9.24E-03	1.38E-03	2.42E-02	7.48E-03	3.07E-03	3.07E-03	4.85E-02	9.24E-03	1.38E-03	2.42E-02	7.48E-03	1.05E-03	3.07E-03	4.64E-02
9.69E-03	1.37E-03	2.61E-02	9.22E-03	3.70E-03	3.70E-03	5.38E-02	9.69E-03	1.37E-03	2.61E-02	9.22E-03	1.38E-03	3.70E-03	5.15E-02
8.28E-03	1.34E-03	2.88E-02	8.59E-03	5.72E-03	5.72E-03	5.84E-02	8.28E-03	1.34E-03	2.88E-02	8.59E-03	2.90E-03	5.72E-03	5.56E-02
7.71E-03	1.34E-03	3.18E-02	8.61E-03	1.08E-02	1.08E-02	7.10E-02	7.71E-03	1.34E-03	3.18E-02	8.61E-03	7.23E-03	1.08E-02	6.74E-02
7.34E-03	1.31E-03	3.38E-02	8.57E-03	1.56E-02	1.56E-02	8.23E-02	7.34E-03	1.31E-03	3.38E-02	8.57E-03	1.14E-02	1.56E-02	7.81E-02
6.97E-03	1.28E-03	3.49E-02	8.46E-03	1.88E-02	1.88E-02	8.92E-02	6.97E-03	1.28E-03	3.49E-02	8.46E-03	1.41E-02	1.88E-02	8.45E-02
6.50E-03	1.25E-03	3.46E-02	8.19E-03	1.98E-02	1.98E-02	9.01E-02	6.50E-03	1.25E-03	3.46E-02	8.19E-03	1.49E-02	1.98E-02	8.52E-02
6.42E-03	1.23E-03	3.65E-02	8.34E-03	2.25E-02	2.25E-02	9.76E-02	6.42E-03	1.23E-03	3.65E-02	8.34E-03	1.71E-02	2.25E-02	9.22E-02
6.13E-03	1.20E-03	3.71E-02	8.29E-03	2.37E-02	2.37E-02	1.00E-01	6.13E-03	1.20E-03	3.71E-02	8.29E-03	1.80E-02	2.37E-02	9.43E-02
5.93E-03	1.18E-03	3.83E-02	8.32E-03	2.53E-02	2.53E-02	1.04E-01	5.93E-03	1.18E-03	3.83E-02	8.32E-03	1.92E-02	2.53E-02	9.82E-02
5.68E-03	1.16E-03	3.87E-02	8.25E-03	2.60E-02	2.60E-02	1.06E-01	5.68E-03	1.16E-03	3.87E-02	8.25E-03	1.96E-02	2.60E-02	9.93E-02
5.48E-03	1.13E-03	3.92E-02	8.21E-03	2.67E-02	2.67E-02	1.07E-01	5.48E-03	1.13E-03	3.92E-02	8.21E-03	2.01E-02	2.67E-02	1.01E-01
5.37E-03	1.12E-03	4.07E-02	8.30E-03	2.85E-02	2.85E-02	1.12E-01	5.37E-03	1.12E-03	4.07E-02	8.30E-03	2.14E-02	2.85E-02	1.05E-01
5.25E-03	1.10E-03	4.22E-02	8.35E-03	3.01E-02	3.01E-02	1.17E-01	5.25E-03	1.10E-03	4.22E-02	8.35E-03	2.25E-02	3.01E-02	1.09E-01
5.07E-03	1.08E-03	4.26E-02	8.33E-03	3.11E-02	3.11E-02	1.19E-01	5.07E-03	1.08E-03	4.26E-02	8.33E-03	2.32E-02	3.11E-02	1.11E-01
4.87E-03	1.06E-03	4.25E-02	8.24E-03	3.07E-02	3.07E-02	1.18E-01	4.87E-03	1.06E-03	4.25E-02	8.24E-03	2.27E-02	3.07E-02	1.10E-01
4.74E-03	1.05E-03	4.28E-02	8.25E-03	3.16E-02	3.16E-02	1.20E-01	4.74E-03	1.05E-03	4.28E-02	8.25E-03	2.32E-02	3.16E-02	1.12E-01
4.61E-03	1.03E-03	4.28E-02	8.20E-03	3.13E-02	3.13E-02	1.19E-01	4.61E-03	1.03E-03	4.28E-02	8.20E-03	2.27E-02	3.13E-02	1.11E-01
4.44E-03	1.01E-03	4.21E-02	8.08E-03	3.08E-02	3.08E-02	1.17E-01	4.44E-03	1.01E-03	4.21E-02	8.08E-03	2.21E-02	3.08E-02	1.09E-01
4.45E-03	1.01E-03	4.40E-02	8.26E-03	3.27E-02	3.27E-02	1.23E-01	4.45E-03	1.01E-03	4.40E-02	8.26E-03	2.34E-02	3.27E-02	1.14E-01
4.25E-03	9.89E-04	4.29E-02	8.09E-03	3.17E-02	3.17E-02	1.20E-01	4.25E-03	9.89E-04	4.29E-02	8.09E-03	2.25E-02	3.17E-02	1.10E-01
4.01E-03	9.64E-04	4.03E-02	7.70E-03	2.93E-02	2.93E-02	1.12E-01	4.01E-03	9.64E-04	4.03E-02	7.70E-03	2.05E-02	2.93E-02	1.03E-01
3.89E-03	9.41E-04	3.84E-02	7.62E-03	2.73E-02	2.73E-02	1.05E-01	3.89E-03	9.41E-04	3.84E-02	7.62E-03	1.88E-02	2.73E-02	9.69E-02
3.93E-03	9.35E-04	3.92E-02	7.90E-03	2.81E-02	2.81E-02	1.08E-01	3.93E-03	9.35E-04	3.92E-02	7.90E-03	1.93E-02	2.81E-02	9.93E-02
3.87E-03	9.25E-04	3.93E-02	7.97E-03	2.82E-02	2.82E-02	1.08E-01	3.87E-03	9.25E-04	3.93E-02	7.97E-03	1.92E-02	2.82E-02	9.95E-02
3.85E-03	9.22E-04	4.04E-02	8.11E-03	2.90E-02	2.90E-02	1.11E-01	3.85E-03	9.22E-04	4.04E-02	8.11E-03	1.98E-02	2.90E-02	1.02E-01
3.81E-03	9.19E-04	4.15E-02	8.17E-03	2.99E-02	2.99E-02	1.14E-01	3.81E-03	9.19E-04	4.15E-02	8.17E-03	2.04E-02	2.99E-02	1.05E-01
3.70E-03	9.22E-04	4.45E-02	8.23E-03	3.21E-02	3.21E-02	1.22E-01	3.70E-03	9.22E-04	4.45E-02	8.23E-03	2.20E-02	3.21E-02	1.11E-01
3.67E-03	9.23E-04	4.57E-02	8.30E-03	3.31E-02	3.31E-02	1.25E-01	3.67E-03	9.23E-04	4.57E-02	8.30E-03	2.27E-02	3.31E-02	1.14E-01
3.64E-03	9.27E-04	4.72E-02	8.30E-03	3.37E-02	3.37E-02	1.27E-01	3.64E-03	9.27E-04	4.72E-02	8.30E-03	2.30E-02	3.37E-02	1.17E-01
3.61E-03	9.30E-04	4.83E-02	8.28E-03	3.40E-02	3.40E-02	1.29E-01	3.61E-03	9.30E-04	4.83E-02	8.28E-03	2.31E-02	3.40E-02	1.18E-01
3.59E-03	9.35E-04	4.94E-02	8.20E-03	3.41E-02	3.41E-02	1.30E-01	3.59E-03	9.35E-04	4.94E-02	8.20E-03	2.31E-02	3.41E-02	1.19E-01
2.23E-03	9.37E-04	4.11E-02	4.46E-03	2.24E-02	2.24E-02	9.36E-02	2.23E-03	9.37E-04	4.11E-02	4.46E-03	1.31E-02	2.24E-02	8.43E-02
2.00E-03	9.34E-04	3.91E-02	3.89E-03	2.04E-02	2.04E-02	8.68E-02	2.00E-03	9.34E-04	3.91E-02	3.89E-03	1.14E-02	2.04E-02	7.78E-02

1.83E-03	9.34E-04	3.74E-02	3.45E-03	1.88E-02	1.88E-02	8.12E-02	1.83E-03	9.34E-04	3.74E-02	3.45E-03	1.00E-02	1.88E-02	7.24E-02
1.71E-03	9.41E-04	3.63E-02	2.98E-03	1.66E-02	1.66E-02	7.52E-02	1.71E-03	9.41E-04	3.63E-02	2.98E-03	8.13E-03	1.66E-02	6.67E-02
1.62E-03	9.45E-04	3.51E-02	2.78E-03	1.58E-02	1.58E-02	7.21E-02	1.62E-03	9.45E-04	3.51E-02	2.78E-03	7.45E-03	1.58E-02	6.37E-02
1.44E-03	9.42E-04	3.21E-02	2.55E-03	1.49E-02	1.49E-02	6.68E-02	1.44E-03	9.42E-04	3.21E-02	2.55E-03	6.99E-03	1.49E-02	5.89E-02
1.31E-03	9.39E-04	2.96E-02	2.34E-03	1.40E-02	1.40E-02	6.22E-02	1.31E-03	9.39E-04	2.96E-02	2.34E-03	6.50E-03	1.40E-02	5.47E-02
1.32E-03	9.48E-04	3.00E-02	2.28E-03	1.38E-02	1.38E-02	6.22E-02	1.32E-03	9.48E-04	3.00E-02	2.28E-03	6.15E-03	1.38E-02	5.45E-02
1.38E-03	9.55E-04	3.13E-02	2.33E-03	1.39E-02	1.39E-02	6.38E-02	1.38E-03	9.55E-04	3.13E-02	2.33E-03	6.07E-03	1.39E-02	5.59E-02
1.50E-03	9.85E-04	3.35E-02	2.28E-03	1.24E-02	1.24E-02	6.31E-02	1.50E-03	9.85E-04	3.35E-02	2.28E-03	4.33E-03	1.24E-02	5.50E-02
1.71E-03	1.06E-03	3.61E-02	2.23E-03	1.14E-02	1.14E-02	6.40E-02	1.71E-03	1.06E-03	3.61E-02	2.23E-03	2.67E-03	1.14E-02	5.52E-02
1.86E-03	1.09E-03	3.77E-02	2.28E-03	1.15E-02	1.15E-02	6.59E-02	1.86E-03	1.09E-03	3.77E-02	2.28E-03	2.28E-03	1.15E-02	5.67E-02
2.04E-03	1.13E-03	3.94E-02	2.33E-03	1.16E-02	1.16E-02	6.82E-02	2.04E-03	1.13E-03	3.94E-02	2.33E-03	1.95E-03	1.16E-02	5.85E-02
2.47E-03	1.20E-03	4.29E-02	2.47E-03	1.23E-02	1.23E-02	7.36E-02	2.47E-03	1.20E-03	4.29E-02	2.47E-03	1.56E-03	1.23E-02	6.29E-02
2.80E-03	1.28E-03	4.38E-02	2.19E-03	1.46E-02	1.46E-02	7.92E-02	2.80E-03	1.28E-03	4.38E-02	2.19E-03	1.29E-03	1.46E-02	6.59E-02
2.82E-03	1.33E-03	4.26E-02	1.94E-03	2.45E-02	2.45E-02	9.78E-02	2.82E-03	1.33E-03	4.26E-02	1.94E-03	1.32E-03	2.45E-02	7.45E-02
2.51E-03	1.44E-03	3.74E-02	1.57E-03	3.19E-02	3.19E-02	1.07E-01	2.51E-03	1.44E-03	3.74E-02	1.57E-03	1.31E-03	3.19E-02	7.61E-02
2.29E-03	1.45E-03	3.50E-02	1.48E-03	2.71E-02	2.71E-02	9.44E-02	2.29E-03	1.45E-03	3.50E-02	1.48E-03	1.26E-03	2.71E-02	6.86E-02
2.11E-03	1.45E-03	3.28E-02	1.39E-03	2.36E-02	2.36E-02	8.50E-02	2.11E-03	1.45E-03	3.28E-02	1.39E-03	1.22E-03	2.36E-02	6.26E-02
1.97E-03	1.46E-03	3.10E-02	1.32E-03	2.10E-02	2.10E-02	7.78E-02	1.97E-03	1.46E-03	3.10E-02	1.32E-03	1.19E-03	2.10E-02	5.79E-02
2.02E-03	1.49E-03	3.11E-02	1.31E-03	2.10E-02	2.10E-02	7.78E-02	2.02E-03	1.49E-03	3.11E-02	1.31E-03	1.16E-03	2.10E-02	5.80E-02
2.18E-03	1.48E-03	3.31E-02	1.39E-03	2.37E-02	2.37E-02	8.55E-02	2.18E-03	1.48E-03	3.31E-02	1.39E-03	1.19E-03	2.37E-02	6.30E-02
2.38E-03	1.47E-03	3.54E-02	1.47E-03	2.75E-02	2.75E-02	9.58E-02	2.38E-03	1.47E-03	3.54E-02	1.47E-03	1.23E-03	2.75E-02	6.95E-02
2.63E-03	1.46E-03	3.81E-02	1.57E-03	3.31E-02	3.31E-02	1.10E-01	2.63E-03	1.46E-03	3.81E-02	1.57E-03	1.29E-03	3.31E-02	7.81E-02
2.97E-03	1.34E-03	4.35E-02	1.95E-03	2.62E-02	2.62E-02	1.02E-01	2.97E-03	1.34E-03	4.35E-02	1.95E-03	1.31E-03	2.62E-02	7.73E-02
2.94E-03	1.29E-03	4.48E-02	2.21E-03	1.47E-02	1.47E-02	8.07E-02	2.94E-03	1.29E-03	4.48E-02	2.21E-03	1.26E-03	1.47E-02	6.72E-02
3.79E-03	1.33E-03	4.91E-02	2.20E-03	1.56E-02	1.56E-02	8.76E-02	3.79E-03	1.33E-03	4.91E-02	2.20E-03	1.14E-03	1.56E-02	7.32E-02
3.82E-03	1.40E-03	4.75E-02	1.94E-03	3.99E-02	3.99E-02	1.34E-01	3.82E-03	1.40E-03	4.75E-02	1.94E-03	1.37E-03	3.99E-02	9.59E-02
3.85E-03	1.48E-03	4.59E-02	1.77E-03	4.02E-02	4.02E-02	1.33E-01	3.85E-03	1.48E-03	4.59E-02	1.77E-03	1.30E-03	4.02E-02	9.45E-02
3.75E-03	1.65E-03	4.19E-02	1.59E-03	2.09E-02	2.09E-02	9.07E-02	3.75E-03	1.65E-03	4.19E-02	1.59E-03	9.24E-04	2.09E-02	7.07E-02
3.77E-03	1.86E-03	3.71E-02	1.52E-03	1.77E-02	1.77E-02	7.96E-02	3.77E-03	1.86E-03	3.71E-02	1.52E-03	7.91E-04	1.77E-02	6.27E-02
3.09E-03	1.86E-03	3.28E-02	1.36E-03	1.70E-02	1.70E-02	7.31E-02	3.09E-03	1.86E-03	3.28E-02	1.36E-03	7.89E-04	1.70E-02	5.69E-02
2.62E-03	1.78E-03	3.11E-02	1.27E-03	1.69E-02	1.69E-02	7.06E-02	2.62E-03	1.78E-03	3.11E-02	1.27E-03	8.43E-04	1.69E-02	5.45E-02
2.28E-03	1.71E-03	2.95E-02	1.21E-03	1.69E-02	1.69E-02	6.85E-02	2.28E-03	1.71E-03	2.95E-02	1.21E-03	9.06E-04	1.69E-02	5.25E-02
2.03E-03	1.64E-03	2.82E-02	1.17E-03	1.68E-02	1.68E-02	6.66E-02	2.03E-03	1.64E-03	2.82E-02	1.17E-03	9.71E-04	1.68E-02	5.08E-02
1.67E-03	1.51E-03	2.57E-02	1.10E-03	1.57E-02	1.57E-02	6.14E-02	1.67E-03	1.51E-03	2.57E-02	1.10E-03	1.07E-03	1.57E-02	4.68E-02
1.45E-03	1.39E-03	2.34E-02	1.04E-03	1.41E-02	1.41E-02	5.55E-02	1.45E-03	1.39E-03	2.34E-02	1.04E-03	1.10E-03	1.41E-02	4.25E-02
1.32E-03	1.32E-03	2.14E-02	9.68E-04	1.29E-02	1.29E-02	5.09E-02	1.32E-03	1.32E-03	2.14E-02	9.68E-04	1.09E-03	1.29E-02	3.90E-02
1.27E-03	1.29E-03	2.05E-02	9.37E-04	1.25E-02	1.25E-02	4.90E-02	1.27E-03	1.29E-03	2.05E-02	9.37E-04	1.08E-03	1.25E-02	3.76E-02
1.22E-03	1.27E-03	1.97E-02	9.08E-04	1.21E-02	1.21E-02	4.72E-02	1.22E-03	1.27E-03	1.97E-02	9.08E-04	1.07E-03	1.21E-02	3.63E-02
1.18E-03	1.26E-03	1.90E-02	8.81E-04	1.17E-02	1.17E-02	4.57E-02	1.18E-03	1.26E-03	1.90E-02	8.81E-04	1.06E-03	1.17E-02	3.51E-02
1.14E-03	1.25E-03	1.83E-02	8.54E-04	1.14E-02	1.14E-02	4.42E-02	1.14E-03	1.25E-03	1.83E-02	8.54E-04	1.04E-03	1.14E-02	3.39E-02
1.03E-03	1.17E-03	1.67E-02	7.99E-04	1.04E-02	1.04E-02	4.06E-02	1.03E-03	1.17E-03	1.67E-02	7.99E-04	1.04E-03	1.04E-02	3.12E-02
1.07E-03	1.26E-03	1.63E-02	7.77E-04	1.06E-02	1.06E-02	4.06E-02	1.07E-03	1.26E-03	1.63E-02	7.77E-04	9.72E-04	1.06E-02	3.10E-02
1.11E-03	1.31E-03	1.68E-02	7.90E-04	1.09E-02	1.09E-02	4.18E-02	1.11E-03	1.31E-03	1.68E-02	7.90E-04	9.61E-04	1.09E-02	3.18E-02
1.19E-03	1.34E-03	1.78E-02	8.28E-04	1.14E-02	1.14E-02	4.40E-02	1.19E-03	1.34E-03	1.78E-02	8.28E-04	9.65E-04	1.14E-02	3.36E-02
1.24E-03	1.36E-03	1.86E-02	8.55E-04	1.18E-02	1.18E-02	4.56E-02	1.24E-03	1.36E-03	1.86E-02	8.55E-04	9.75E-04	1.18E-02	3.48E-02
1.29E-03	1.38E-03	1.94E-02	8.83E-04	1.21E-02	1.21E-02	4.72E-02	1.29E-03	1.38E-03	1.94E-02	8.83E-04	9.84E-04	1.21E-02	3.60E-02
1.34E-03	1.41E-03	2.02E-02	9.12E-04	1.26E-02	1.26E-02	4.90E-02	1.34E-03	1.41E-03	2.02E-02	9.12E-04	9.92E-04	1.26E-02	3.74E-02
1.41E-03	1.44E-03	2.11E-02	9.43E-04	1.30E-02	1.30E-02	5.10E-02	1.41E-03	1.44E-03	2.11E-02	9.43E-04	9.99E-04	1.30E-02	3.90E-02
1.56E-03	1.50E-03	2.33E-02	1.01E-03	1.40E-02	1.40E-02	5.54E-02	1.56E-03	1.50E-03	2.33E-02	1.01E-03	1.00E-03	1.40E-02	4.24E-02
1.80E-03	1.63E-03	2.52E-02	1.07E-03	1.50E-02	1.50E-02	5.98E-02	1.80E-03	1.63E-03	2.52E-02	1.07E-03	9.54E-04	1.50E-02	4.57E-02
1.93E-03	1.69E-03	2.60E-02	1.09E-03	1.53E-02	1.53E-02	6.14E-02	1.93E-03	1.69E-03	2.60E-02	1.09E-03	9.19E-04	1.53E-02	4.70E-02
2.35E-03	1.82E-03	2.80E-02	1.17E-03	1.57E-02	1.57E-02	6.48E-02	2.35E-03	1.82E-03	2.80E-02	1.17E-03	8.27E-04	1.57E-02	4.99E-02
2.70E-03	1.92E-03	2.90E-02	1.24E-03	1.60E-02	1.60E-02	6.69E-02	2.70E-03	1.92E-03	2.90E-02	1.24E-03	7.72E-04	1.60E-02	5.16E-02
3.17E-03	2.01E-03	3.02E-02	1.33E-03	1.63E-02	1.63E-02	6.93E-02	3.17E-03	2.01E-03	3.02E-02	1.33E-03	7.30E-04	1.63E-02	5.37E-02

4.98E-03	2.49E-03	2.75E-02	1.69E-03	1.71E-02	1.71E-02	7.09E-02	4.98E-03	2.49E-03	2.75E-02	1.69E-03	6.31E-04	1.71E-02	5.44E-02
5.16E-03	2.83E-03	2.38E-02	1.71E-03	1.75E-02	1.75E-02	6.86E-02	5.16E-03	2.83E-03	2.38E-02	1.71E-03	5.96E-04	1.75E-02	5.17E-02
4.81E-03	3.57E-03	1.97E-02	1.58E-03	1.85E-02	1.85E-02	6.66E-02	4.81E-03	3.57E-03	1.97E-02	1.58E-03	5.50E-04	1.85E-02	4.86E-02
5.25E-03	5.23E-03	1.69E-02	1.56E-03	2.10E-02	2.10E-02	7.11E-02	5.25E-03	5.23E-03	1.69E-02	1.56E-03	5.06E-04	2.10E-02	5.05E-02
5.59E-03	7.59E-03	1.58E-02	1.49E-03	2.25E-02	2.25E-02	7.55E-02	5.59E-03	7.59E-03	1.58E-02	1.49E-03	4.87E-04	2.25E-02	5.34E-02
6.53E-03	2.50E-02	1.15E-02	8.26E-04	2.55E-02	2.55E-02	9.48E-02	6.53E-03	2.50E-02	1.15E-02	8.26E-04	4.42E-04	2.55E-02	6.98E-02
7.64E-03	3.18E-02	1.09E-02	7.53E-04	2.66E-02	2.66E-02	1.04E-01	7.64E-03	3.18E-02	1.09E-02	7.53E-04	4.36E-04	2.66E-02	7.81E-02
6.83E-03	1.73E-02	1.40E-02	1.24E-03	2.52E-02	2.52E-02	8.98E-02	6.83E-03	1.73E-02	1.40E-02	1.24E-03	4.64E-04	2.52E-02	6.50E-02
6.32E-03	9.31E-03	1.57E-02	1.55E-03	2.37E-02	2.37E-02	8.03E-02	6.32E-03	9.31E-03	1.57E-02	1.55E-03	4.81E-04	2.37E-02	5.71E-02
5.87E-03	5.88E-03	1.69E-02	1.67E-03	2.20E-02	2.20E-02	7.44E-02	5.87E-03	5.88E-03	1.69E-02	1.67E-03	5.00E-04	2.20E-02	5.28E-02
5.52E-03	4.59E-03	1.80E-02	1.68E-03	2.05E-02	2.05E-02	7.08E-02	5.52E-03	4.59E-03	1.80E-02	1.68E-03	5.20E-04	2.05E-02	5.08E-02
2.06E-02	1.40E-02	2.22E-02	4.08E-03	3.03E-02	3.03E-02	1.21E-01	2.06E-02	1.40E-02	2.22E-02	4.08E-03	4.79E-04	3.03E-02	9.16E-02
2.12E-02	4.82E-02	1.75E-02	1.97E-03	3.20E-02	3.20E-02	1.53E-01	2.12E-02	4.82E-02	1.75E-02	1.97E-03	4.65E-04	3.20E-02	1.21E-01
2.09E-02	8.22E-02	1.10E-02	7.71E-04	3.28E-02	3.28E-02	1.80E-01	2.09E-02	8.22E-02	1.10E-02	7.71E-04	4.41E-04	3.28E-02	1.48E-01
2.95E-02	9.92E-02	8.05E-03	4.57E-04	3.06E-02	3.06E-02	1.98E-01	2.95E-02	9.92E-02	8.05E-03	4.57E-04	4.06E-04	3.06E-02	1.68E-01
1.10E-02	5.11E-02	9.04E-03	5.46E-04	2.81E-02	2.81E-02	1.28E-01	1.10E-02	5.11E-02	9.04E-03	5.46E-04	4.14E-04	2.81E-02	1.00E-01
6.78E-03	3.10E-02	9.83E-03	6.15E-04	2.55E-02	2.55E-02	9.91E-02	6.78E-03	3.10E-02	9.83E-03	6.15E-04	4.21E-04	2.55E-02	7.41E-02
7.52E-03	3.82E-02	7.99E-03	4.40E-04	2.40E-02	2.40E-02	1.02E-01	7.52E-03	3.82E-02	7.99E-03	4.40E-04	3.89E-04	2.40E-02	7.85E-02
8.40E-03	4.53E-02	6.78E-03	3.50E-04	2.18E-02	2.18E-02	1.04E-01	8.40E-03	4.53E-02	6.78E-03	3.50E-04	3.59E-04	2.18E-02	8.29E-02
9.34E-03	5.14E-02	5.95E-03	2.97E-04	1.94E-02	1.94E-02	1.06E-01	9.34E-03	5.14E-02	5.95E-03	2.97E-04	3.34E-04	1.94E-02	8.68E-02
9.27E-03	5.17E-02	5.57E-03	2.74E-04	1.83E-02	1.83E-02	1.03E-01	9.27E-03	5.17E-02	5.57E-03	2.74E-04	3.20E-04	1.83E-02	8.54E-02
8.96E-03	5.04E-02	5.42E-03	2.66E-04	1.77E-02	1.77E-02	1.00E-01	8.96E-03	5.04E-02	5.42E-03	2.66E-04	3.13E-04	1.77E-02	8.30E-02
9.68E-03	5.41E-02	4.96E-03	2.39E-04	1.60E-02	1.60E-02	1.01E-01	9.68E-03	5.41E-02	4.96E-03	2.39E-04	2.94E-04	1.60E-02	8.53E-02
1.03E-02	5.74E-02	4.79E-03	2.30E-04	1.54E-02	1.54E-02	1.03E-01	1.03E-02	5.74E-02	4.79E-03	2.30E-04	2.87E-04	1.54E-02	8.84E-02
1.10E-02	6.09E-02	4.63E-03	2.21E-04	1.48E-02	1.48E-02	1.06E-01	1.10E-02	6.09E-02	4.63E-03	2.21E-04	2.80E-04	1.48E-02	9.18E-02
1.16E-02	6.44E-02	4.49E-03	2.13E-04	1.42E-02	1.42E-02	1.09E-01	1.16E-02	6.44E-02	4.49E-03	2.13E-04	2.74E-04	1.42E-02	9.52E-02
1.20E-02	6.64E-02	4.36E-03	2.07E-04	1.36E-02	1.36E-02	1.10E-01	1.20E-02	6.64E-02	4.36E-03	2.07E-04	2.69E-04	1.36E-02	9.68E-02
1.31E-02	7.24E-02	4.23E-03	2.00E-04	1.31E-02	1.31E-02	1.16E-01	1.31E-02	7.24E-02	4.23E-03	2.00E-04	2.62E-04	1.31E-02	1.03E-01
1.14E-02	6.53E-02	3.99E-03	1.87E-04	1.19E-02	1.19E-02	1.05E-01	1.14E-02	6.53E-02	3.99E-03	1.87E-04	2.50E-04	1.19E-02	9.30E-02
9.99E-03	5.82E-02	3.94E-03	1.84E-04	1.15E-02	1.15E-02	9.54E-02	9.99E-03	5.82E-02	3.94E-03	1.84E-04	2.48E-04	1.15E-02	8.41E-02
7.95E-03	4.70E-02	3.83E-03	1.79E-04	1.09E-02	1.09E-02	8.08E-02	7.95E-03	4.70E-02	3.83E-03	1.79E-04	2.43E-04	1.09E-02	7.01E-02
7.24E-03	4.24E-02	3.77E-03	1.76E-04	1.06E-02	1.06E-02	7.48E-02	7.24E-03	4.24E-02	3.77E-03	1.76E-04	2.40E-04	1.06E-02	6.44E-02
8.61E-03	4.70E-02	3.57E-03	1.66E-04	1.03E-02	1.03E-02	8.00E-02	8.61E-03	4.70E-02	3.57E-03	1.66E-04	2.29E-04	1.03E-02	6.99E-02
1.01E-02	5.30E-02	3.37E-03	1.57E-04	9.91E-03	9.91E-03	8.64E-02	1.01E-02	5.30E-02	3.37E-03	1.57E-04	2.20E-04	9.91E-03	7.67E-02
8.60E-03	4.72E-02	3.31E-03	1.54E-04	9.56E-03	9.56E-03	7.84E-02	8.60E-03	4.72E-02	3.31E-03	1.54E-04	2.17E-04	9.56E-03	6.91E-02
7.53E-03	4.25E-02	3.26E-03	1.51E-04	9.23E-03	9.23E-03	7.18E-02	7.53E-03	4.25E-02	3.26E-03	1.51E-04	2.14E-04	9.23E-03	6.28E-02
5.49E-03	2.93E-02	3.16E-03	1.47E-04	8.40E-03	8.40E-03	5.49E-02	5.49E-03	2.93E-02	3.16E-03	1.47E-04	2.11E-04	8.40E-03	4.67E-02
7.91E-03	4.23E-02	2.92E-03	1.36E-04	8.08E-03	8.08E-03	6.94E-02	7.91E-03	4.23E-02	2.92E-03	1.36E-04	1.97E-04	8.08E-03	6.15E-02
1.28E-02	6.05E-02	2.83E-03	1.32E-04	8.03E-03	8.03E-03	9.23E-02	1.28E-02	6.05E-02	2.83E-03	1.32E-04	1.93E-04	8.03E-03	8.44E-02
1.30E-02	3.58E-02	2.63E-03	1.25E-04	7.83E-03	7.83E-03	6.71E-02	1.30E-02	3.58E-02	2.63E-03	1.25E-04	1.85E-04	7.83E-03	5.95E-02
5.56E-03	2.05E-02	2.73E-03	1.30E-04	8.15E-03	8.15E-03	4.52E-02	5.56E-03	2.05E-02	2.73E-03	1.30E-04	1.93E-04	8.15E-03	3.72E-02
7.03E-03	2.77E-02	2.92E-03	1.38E-04	9.51E-03	9.51E-03	5.68E-02	7.03E-03	2.77E-02	2.92E-03	1.38E-04	2.01E-04	9.51E-03	4.75E-02
1.03E-02	3.86E-02	3.19E-03	1.51E-04	1.05E-02	1.05E-02	7.32E-02	1.03E-02	3.86E-02	3.19E-03	1.51E-04	2.14E-04	1.05E-02	6.29E-02
8.90E-03	3.58E-02	3.35E-03	1.58E-04	1.12E-02	1.12E-02	7.07E-02	8.90E-03	3.58E-02	3.35E-03	1.58E-04	2.23E-04	1.12E-02	5.96E-02
8.22E-03	3.35E-02	3.43E-03	1.62E-04	1.17E-02	1.17E-02	6.87E-02	8.22E-03	3.35E-02	3.43E-03	1.62E-04	2.27E-04	1.17E-02	5.73E-02
8.24E-03	3.37E-02	3.52E-03	1.67E-04	1.21E-02	1.21E-02	6.99E-02	8.24E-03	3.37E-02	3.52E-03	1.67E-04	2.32E-04	1.21E-02	5.80E-02
1.89E-02	5.79E-02	3.81E-03	1.82E-04	1.31E-02	1.31E-02	1.07E-01	1.89E-02	5.79E-02	3.81E-03	1.82E-04	2.47E-04	1.31E-02	9.41E-02
1.78E-02	5.54E-02	3.89E-03	1.86E-04	1.36E-02	1.36E-02	1.05E-01	1.78E-02	5.54E-02	3.89E-03	1.86E-04	2.52E-04	1.36E-02	9.12E-02
1.74E-02	5.53E-02	3.97E-03	1.90E-04	1.42E-02	1.42E-02	1.05E-01	1.74E-02	5.53E-02	3.97E-03	1.90E-04	2.57E-04	1.42E-02	9.13E-02
1.63E-02	5.27E-02	4.05E-03	1.95E-04	1.48E-02	1.48E-02	1.03E-01	1.63E-02	5.27E-02	4.05E-03	1.95E-04	2.62E-04	1.48E-02	8.82E-02
1.54E-02	5.08E-02	4.13E-03	2.00E-04	1.54E-02	1.54E-02	1.01E-01	1.54E-02	5.08E-02	4.13E-03	2.00E-04	2.67E-04	1.54E-02	8.62E-02
1.51E-02	5.04E-02	4.23E-03	2.05E-04	1.60E-02	1.60E-02	1.02E-01	1.51E-02	5.04E-02	4.23E-03	2.05E-04	2.74E-04	1.60E-02	8.62E-02
1.49E-02	4.97E-02	4.33E-03	2.12E-04	1.66E-02	1.66E-02	1.02E-01	1.49E-02	4.97E-02	4.33E-03	2.12E-04	2.81E-04	1.66E-02	8.60E-02
1.46E-02	4.86E-02	4.45E-03	2.19E-04	1.72E-02	1.72E-02	1.02E-01	1.46E-02	4.86E-02	4.45E-03	2.19E-04	2.89E-04	1.72E-02	8.54E-02

1.51E-02	4.75E-02	4.84E-03	2.41E-04	1.91E-02	1.91E-02	1.06E-01	1.51E-02	4.75E-02	4.84E-03	2.41E-04	3.11E-04	1.91E-02	8.71E-02
9.98E-03	3.70E-02	5.15E-03	2.61E-04	2.12E-02	2.12E-02	9.49E-02	9.98E-03	3.70E-02	5.15E-03	2.61E-04	3.28E-04	2.12E-02	7.40E-02
9.94E-03	3.67E-02	5.38E-03	2.75E-04	2.26E-02	2.26E-02	9.74E-02	9.94E-03	3.67E-02	5.38E-03	2.75E-04	3.38E-04	2.26E-02	7.52E-02
9.91E-03	3.65E-02	5.62E-03	2.90E-04	2.41E-02	2.41E-02	1.01E-01	9.91E-03	3.65E-02	5.62E-03	2.90E-04	3.48E-04	2.41E-02	7.68E-02
9.82E-03	3.61E-02	5.89E-03	3.07E-04	2.59E-02	2.59E-02	1.04E-01	9.82E-03	3.61E-02	5.89E-03	3.07E-04	3.58E-04	2.59E-02	7.83E-02
1.19E-02	4.10E-02	6.68E-03	3.60E-04	3.00E-02	3.00E-02	1.20E-01	1.19E-02	4.10E-02	6.68E-03	3.60E-04	3.82E-04	3.00E-02	9.03E-02
1.15E-02	3.99E-02	7.10E-03	3.92E-04	3.21E-02	3.21E-02	1.23E-01	1.15E-02	3.99E-02	7.10E-03	3.92E-04	3.93E-04	3.21E-02	9.13E-02
1.06E-02	3.51E-02	7.57E-03	4.30E-04	3.49E-02	3.49E-02	1.24E-01	1.06E-02	3.51E-02	7.57E-03	4.30E-04	4.03E-04	3.49E-02	8.91E-02
1.01E-02	3.21E-02	8.15E-03	4.82E-04	3.77E-02	3.77E-02	1.26E-01	1.01E-02	3.21E-02	8.15E-03	4.82E-04	4.14E-04	3.77E-02	8.89E-02
9.43E-03	2.88E-02	8.91E-03	5.53E-04	4.07E-02	4.07E-02	1.29E-01	9.43E-03	2.88E-02	8.91E-03	5.53E-04	4.26E-04	4.07E-02	8.88E-02
8.71E-03	2.35E-02	9.91E-03	6.47E-04	4.55E-02	4.55E-02	1.34E-01	8.71E-03	2.35E-02	9.91E-03	6.47E-04	4.35E-04	4.55E-02	8.86E-02
3.42E-03	1.21E-02	8.77E-03	5.33E-04	5.97E-02	5.97E-02	1.44E-01	3.42E-03	1.21E-02	8.77E-03	5.33E-04	4.19E-04	5.97E-02	8.50E-02
2.19E-03	9.44E-03	7.54E-03	4.20E-04	6.27E-02	6.27E-02	1.45E-01	2.19E-03	9.44E-03	7.54E-03	4.20E-04	3.95E-04	6.27E-02	8.27E-02
1.62E-03	7.76E-03	6.71E-03	3.53E-04	6.51E-02	6.51E-02	1.47E-01	1.62E-03	7.76E-03	6.71E-03	3.53E-04	3.72E-04	6.51E-02	8.19E-02
1.30E-03	6.60E-03	6.07E-03	3.08E-04	6.66E-02	6.66E-02	1.48E-01	1.30E-03	6.60E-03	6.07E-03	3.08E-04	3.51E-04	6.66E-02	8.13E-02
1.09E-03	5.78E-03	5.55E-03	2.75E-04	6.65E-02	6.65E-02	1.46E-01	1.09E-03	5.78E-03	5.55E-03	2.75E-04	3.33E-04	6.65E-02	7.95E-02
1.02E-03	5.67E-03	5.10E-03	2.49E-04	4.41E-02	4.41E-02	1.00E-01	1.02E-03	5.67E-03	5.10E-03	2.49E-04	3.21E-04	4.41E-02	5.64E-02
1.11E-03	6.33E-03	5.09E-03	2.51E-04	3.81E-02	3.81E-02	8.91E-02	1.11E-03	6.33E-03	5.09E-03	2.51E-04	3.21E-04	3.81E-02	5.12E-02
1.22E-03	7.12E-03	5.07E-03	2.52E-04	3.38E-02	3.38E-02	8.13E-02	1.22E-03	7.12E-03	5.07E-03	2.52E-04	3.22E-04	3.38E-02	4.78E-02
1.28E-03	7.66E-03	4.82E-03	2.42E-04	2.85E-02	2.85E-02	7.11E-02	1.28E-03	7.66E-03	4.82E-03	2.42E-04	3.15E-04	2.85E-02	4.29E-02
1.10E-03	6.67E-03	4.56E-03	2.25E-04	2.72E-02	2.72E-02	6.70E-02	1.10E-03	6.67E-03	4.56E-03	2.25E-04	3.01E-04	2.72E-02	4.01E-02
9.03E-04	5.40E-03	4.33E-03	2.09E-04	2.78E-02	2.78E-02	6.65E-02	9.03E-04	5.40E-03	4.33E-03	2.09E-04	2.87E-04	2.78E-02	3.89E-02
8.45E-04	4.95E-03	4.33E-03	2.08E-04	2.94E-02	2.94E-02	6.91E-02	8.45E-04	4.95E-03	4.33E-03	2.08E-04	2.89E-04	2.94E-02	4.00E-02
7.94E-04	4.55E-03	4.32E-03	2.07E-04	3.12E-02	3.12E-02	7.23E-02	7.94E-04	4.55E-03	4.32E-03	2.07E-04	2.91E-04	3.12E-02	4.14E-02
7.51E-04	4.21E-03	4.31E-03	2.06E-04	3.34E-02	3.34E-02	7.62E-02	7.51E-04	4.21E-03	4.31E-03	2.06E-04	2.95E-04	3.34E-02	4.31E-02
7.10E-04	3.87E-03	4.27E-03	2.05E-04	3.63E-02	3.63E-02	8.16E-02	7.10E-04	3.87E-03	4.27E-03	2.05E-04	3.00E-04	3.63E-02	4.57E-02
6.75E-04	3.58E-03	4.24E-03	2.04E-04	4.03E-02	4.03E-02	8.93E-02	6.75E-04	3.58E-03	4.24E-03	2.04E-04	3.10E-04	4.03E-02	4.93E-02
6.42E-04	3.30E-03	4.20E-03	2.03E-04	4.62E-02	4.62E-02	1.01E-01	6.42E-04	3.30E-03	4.20E-03	2.03E-04	3.24E-04	4.62E-02	5.49E-02
6.15E-04	3.06E-03	4.17E-03	2.02E-04	5.54E-02	5.54E-02	1.19E-01	6.15E-04	3.06E-03	4.17E-03	2.02E-04	3.38E-04	5.54E-02	6.37E-02
5.64E-04	2.73E-03	3.94E-03	1.91E-04	7.13E-02	7.13E-02	1.50E-01	5.64E-04	2.73E-03	3.94E-03	1.91E-04	2.75E-04	7.13E-02	7.90E-02
5.41E-04	2.62E-03	3.75E-03	1.81E-04	7.10E-02	7.10E-02	1.49E-01	5.41E-04	2.62E-03	3.75E-03	1.81E-04	2.53E-04	7.10E-02	7.84E-02
5.41E-04	2.70E-03	3.61E-03	1.74E-04	5.99E-02	5.99E-02	1.27E-01	5.41E-04	2.70E-03	3.61E-03	1.74E-04	2.51E-04	5.99E-02	6.72E-02
5.62E-04	2.89E-03	3.63E-03	1.75E-04	5.39E-02	5.39E-02	1.15E-01	5.62E-04	2.89E-03	3.63E-03	1.75E-04	2.56E-04	5.39E-02	6.14E-02
5.85E-04	3.11E-03	3.67E-03	1.76E-04	4.90E-02	4.90E-02	1.05E-01	5.85E-04	3.11E-03	3.67E-03	1.76E-04	2.59E-04	4.90E-02	5.68E-02
6.12E-04	3.35E-03	3.70E-03	1.77E-04	4.35E-02	4.35E-02	9.49E-02	6.12E-04	3.35E-03	3.70E-03	1.77E-04	2.60E-04	4.35E-02	5.16E-02
6.42E-04	3.61E-03	3.74E-03	1.79E-04	3.80E-02	3.80E-02	8.41E-02	6.42E-04	3.61E-03	3.74E-03	1.79E-04	2.60E-04	3.80E-02	4.64E-02
6.74E-04	3.88E-03	3.77E-03	1.80E-04	3.38E-02	3.38E-02	7.61E-02	6.74E-04	3.88E-03	3.77E-03	1.80E-04	2.59E-04	3.38E-02	4.26E-02
7.10E-04	4.18E-03	3.78E-03	1.81E-04	3.07E-02	3.07E-02	7.02E-02	7.10E-04	4.18E-03	3.78E-03	1.81E-04	2.58E-04	3.07E-02	3.98E-02
6.88E-04	4.10E-03	3.59E-03	1.71E-04	3.00E-02	3.00E-02	6.85E-02	6.88E-04	4.10E-03	3.59E-03	1.71E-04	2.46E-04	3.00E-02	3.88E-02
6.38E-04	3.72E-03	3.38E-03	1.61E-04	3.21E-02	3.21E-02	7.21E-02	6.38E-04	3.72E-03	3.38E-03	1.61E-04	2.34E-04	3.21E-02	4.02E-02
5.98E-04	3.41E-03	3.20E-03	1.53E-04	3.82E-02	3.82E-02	8.37E-02	5.98E-04	3.41E-03	3.20E-03	1.53E-04	2.24E-04	3.82E-02	4.58E-02
5.63E-04	3.13E-03	3.02E-03	1.45E-04	5.59E-02	5.59E-02	1.19E-01	5.63E-04	3.13E-03	3.02E-03	1.45E-04	2.14E-04	5.59E-02	6.29E-02
5.31E-04	2.89E-03	2.87E-03	1.38E-04	5.83E-02	5.83E-02	1.23E-01	5.31E-04	2.89E-03	2.87E-03	1.38E-04	2.04E-04	5.83E-02	6.50E-02
4.98E-04	2.67E-03	2.71E-03	1.31E-04	5.33E-02	5.33E-02	1.13E-01	4.98E-04	2.67E-03	2.71E-03	1.31E-04	1.94E-04	5.33E-02	5.95E-02
4.68E-04	2.49E-03	2.58E-03	1.25E-04	3.48E-02	3.48E-02	7.53E-02	4.68E-04	2.49E-03	2.58E-03	1.25E-04	1.86E-04	3.48E-02	4.07E-02
4.27E-04	2.23E-03	2.44E-03	1.18E-04	2.04E-02	2.04E-02	4.59E-02	4.27E-04	2.23E-03	2.44E-03	1.18E-04	1.77E-04	2.04E-02	2.58E-02
4.15E-04	2.14E-03	2.42E-03	1.17E-04	2.07E-02	2.07E-02	4.65E-02	4.15E-04	2.14E-03	2.42E-03	1.17E-04	1.76E-04	2.07E-02	2.60E-02
4.04E-04	2.06E-03	2.41E-03	1.17E-04	2.08E-02	2.08E-02	4.66E-02	4.04E-04	2.06E-03	2.41E-03	1.17E-04	1.75E-04	2.08E-02	2.60E-02
3.94E-04	1.98E-03	2.40E-03	1.16E-04	2.06E-02	2.06E-02	4.61E-02	3.94E-04	1.98E-03	2.40E-03	1.16E-04	1.73E-04	2.06E-02	2.57E-02
3.85E-04	1.91E-03	2.39E-03	1.16E-04	2.04E-02	2.04E-02	4.55E-02	3.85E-04	1.91E-03	2.39E-03	1.16E-04	1.71E-04	2.04E-02	2.53E-02
3.75E-04	1.82E-03	2.38E-03	1.15E-04	1.97E-02	1.97E-02	4.40E-02	3.75E-04	1.82E-03	2.38E-03	1.15E-04	1.69E-04	1.97E-02	2.45E-02
3.68E-04	1.77E-03	2.38E-03	1.16E-04	1.94E-02	1.94E-02	4.34E-02	3.68E-04	1.77E-03	2.38E-03	1.16E-04	1.68E-04	1.94E-02	2.42E-02
3.45E-04	1.61E-03	2.31E-03	1.14E-04	1.37E-02	1.37E-02	3.17E-02	3.45E-04	1.61E-03	2.31E-03	1.14E-04	1.64E-04	1.37E-02	1.82E-02
3.38E-04	1.55E-03	2.28E-03	1.14E-04	1.30E-02	1.30E-02	3.02E-02	3.38E-04	1.55E-03	2.28E-03	1.14E-04	1.62E-04	1.30E-02	1.74E-02

3.31E-04	1.48E-03	2.26E-03	1.12E-04	1.21E-02	1.21E-02	2.83E-02	3.31E-04	1.48E-03	2.26E-03	1.12E-04	1.61E-04	1.21E-02	1.64E-02
3.24E-04	1.42E-03	2.23E-03	1.11E-04	1.11E-02	1.11E-02	2.64E-02	3.24E-04	1.42E-03	2.23E-03	1.11E-04	1.59E-04	1.11E-02	1.54E-02
3.17E-04	1.36E-03	2.22E-03	1.10E-04	1.03E-02	1.03E-02	2.47E-02	3.17E-04	1.36E-03	2.22E-03	1.10E-04	1.58E-04	1.03E-02	1.45E-02
3.11E-04	1.31E-03	2.20E-03	1.10E-04	9.63E-03	9.63E-03	2.32E-02	3.11E-04	1.31E-03	2.20E-03	1.10E-04	1.58E-04	9.63E-03	1.37E-02
3.05E-04	1.27E-03	2.20E-03	1.10E-04	9.06E-03	9.06E-03	2.20E-02	3.05E-04	1.27E-03	2.20E-03	1.10E-04	1.57E-04	9.06E-03	1.31E-02
3.00E-04	1.23E-03	2.20E-03	1.10E-04	8.57E-03	8.57E-03	2.10E-02	3.00E-04	1.23E-03	2.20E-03	1.10E-04	1.57E-04	8.57E-03	1.26E-02
3.04E-04	1.23E-03	2.30E-03	1.14E-04	9.35E-03	9.35E-03	2.27E-02	3.04E-04	1.23E-03	2.30E-03	1.14E-04	1.62E-04	9.35E-03	1.35E-02
3.14E-04	1.26E-03	2.39E-03	1.19E-04	1.09E-02	1.09E-02	2.58E-02	3.14E-04	1.26E-03	2.39E-03	1.19E-04	1.67E-04	1.09E-02	1.51E-02
3.24E-04	1.29E-03	2.51E-03	1.24E-04	1.27E-02	1.27E-02	2.96E-02	3.24E-04	1.29E-03	2.51E-03	1.24E-04	1.74E-04	1.27E-02	1.71E-02
3.37E-04	1.33E-03	2.63E-03	1.30E-04	1.41E-02	1.41E-02	3.27E-02	3.37E-04	1.33E-03	2.63E-03	1.30E-04	1.81E-04	1.41E-02	1.88E-02
3.51E-04	1.37E-03	2.76E-03	1.36E-04	1.52E-02	1.52E-02	3.50E-02	3.51E-04	1.37E-03	2.76E-03	1.36E-04	1.88E-04	1.52E-02	2.00E-02
3.67E-04	1.41E-03	2.91E-03	1.43E-04	1.61E-02	1.61E-02	3.71E-02	3.67E-04	1.41E-03	2.91E-03	1.43E-04	1.96E-04	1.61E-02	2.12E-02
3.85E-04	1.46E-03	3.09E-03	1.51E-04	1.73E-02	1.73E-02	3.97E-02	3.85E-04	1.46E-03	3.09E-03	1.51E-04	2.05E-04	1.73E-02	2.26E-02
4.02E-04	1.51E-03	3.28E-03	1.59E-04	1.83E-02	1.83E-02	4.20E-02	4.02E-04	1.51E-03	3.28E-03	1.59E-04	2.15E-04	1.83E-02	2.39E-02
4.16E-04	1.54E-03	3.45E-03	1.67E-04	1.91E-02	1.91E-02	4.37E-02	4.16E-04	1.54E-03	3.45E-03	1.67E-04	2.24E-04	1.91E-02	2.49E-02
4.32E-04	1.59E-03	3.69E-03	1.78E-04	2.05E-02	2.05E-02	4.68E-02	4.32E-04	1.59E-03	3.69E-03	1.78E-04	2.35E-04	2.05E-02	2.66E-02
4.46E-04	1.63E-03	3.92E-03	1.88E-04	2.21E-02	2.21E-02	5.05E-02	4.46E-04	1.63E-03	3.92E-03	1.88E-04	2.46E-04	2.21E-02	2.86E-02
4.62E-04	1.67E-03	4.19E-03	1.99E-04	2.50E-02	2.50E-02	5.66E-02	4.62E-04	1.67E-03	4.19E-03	1.99E-04	2.58E-04	2.50E-02	3.18E-02
4.67E-04	1.60E-03	4.46E-03	2.10E-04	2.87E-02	2.87E-02	6.41E-02	4.67E-04	1.60E-03	4.46E-03	2.10E-04	2.68E-04	2.87E-02	3.57E-02
4.55E-04	1.52E-03	4.45E-03	2.09E-04	2.65E-02	2.65E-02	5.97E-02	4.55E-04	1.52E-03	4.45E-03	2.09E-04	2.66E-04	2.65E-02	3.34E-02
4.44E-04	1.44E-03	4.43E-03	2.07E-04	2.47E-02	2.47E-02	5.59E-02	4.44E-04	1.44E-03	4.43E-03	2.07E-04	2.63E-04	2.47E-02	3.15E-02
4.32E-04	1.38E-03	4.41E-03	2.05E-04	2.28E-02	2.28E-02	5.19E-02	4.32E-04	1.38E-03	4.41E-03	2.05E-04	2.60E-04	2.28E-02	2.94E-02
4.23E-04	1.32E-03	4.39E-03	2.04E-04	2.09E-02	2.09E-02	4.81E-02	4.23E-04	1.32E-03	4.39E-03	2.04E-04	2.59E-04	2.09E-02	2.75E-02
4.13E-04	1.27E-03	4.37E-03	2.02E-04	1.90E-02	1.90E-02	4.43E-02	4.13E-04	1.27E-03	4.37E-03	2.02E-04	2.58E-04	1.90E-02	2.55E-02
4.04E-04	1.22E-03	4.34E-03	2.01E-04	1.73E-02	1.73E-02	4.07E-02	4.04E-04	1.22E-03	4.34E-03	2.01E-04	2.58E-04	1.73E-02	2.37E-02
3.95E-04	1.17E-03	4.31E-03	2.00E-04	1.57E-02	1.57E-02	3.74E-02	3.95E-04	1.17E-03	4.31E-03	2.00E-04	2.58E-04	1.57E-02	2.20E-02
3.87E-04	1.13E-03	4.28E-03	1.98E-04	1.42E-02	1.42E-02	3.44E-02	3.87E-04	1.13E-03	4.28E-03	1.98E-04	2.59E-04	1.42E-02	2.05E-02
3.80E-04	1.09E-03	4.25E-03	1.97E-04	1.30E-02	1.30E-02	3.19E-02	3.80E-04	1.09E-03	4.25E-03	1.97E-04	2.60E-04	1.30E-02	1.91E-02
3.72E-04	1.06E-03	4.20E-03	1.95E-04	1.18E-02	1.18E-02	2.95E-02	3.72E-04	1.06E-03	4.20E-03	1.95E-04	2.61E-04	1.18E-02	1.79E-02
3.64E-04	1.02E-03	4.17E-03	1.93E-04	1.09E-02	1.09E-02	2.76E-02	3.64E-04	1.02E-03	4.17E-03	1.93E-04	2.62E-04	1.09E-02	1.69E-02
3.58E-04	9.95E-04	4.14E-03	1.92E-04	1.01E-02	1.01E-02	2.60E-02	3.58E-04	9.95E-04	4.14E-03	1.92E-04	2.64E-04	1.01E-02	1.61E-02
3.51E-04	9.66E-04	4.09E-03	1.90E-04	9.43E-03	9.43E-03	2.45E-02	3.51E-04	9.66E-04	4.09E-03	1.90E-04	2.65E-04	9.43E-03	1.53E-02
3.45E-04	9.40E-04	4.06E-03	1.88E-04	8.81E-03	8.81E-03	2.32E-02	3.45E-04	9.40E-04	4.06E-03	1.88E-04	2.65E-04	8.81E-03	1.46E-02
3.38E-04	9.15E-04	4.02E-03	1.86E-04	8.24E-03	8.24E-03	2.19E-02	3.38E-04	9.15E-04	4.02E-03	1.86E-04	2.65E-04	8.24E-03	1.40E-02
3.40E-04	9.01E-04	4.21E-03	1.93E-04	8.29E-03	8.29E-03	2.22E-02	3.40E-04	9.01E-04	4.21E-03	1.93E-04	2.78E-04	8.29E-03	1.42E-02
3.49E-04	9.11E-04	4.48E-03	2.02E-04	8.93E-03	8.93E-03	2.38E-02	3.49E-04	9.11E-04	4.48E-03	2.02E-04	2.93E-04	8.93E-03	1.52E-02
3.57E-04	9.21E-04	4.77E-03	2.13E-04	9.65E-03	9.65E-03	2.56E-02	3.57E-04	9.21E-04	4.77E-03	2.13E-04	3.09E-04	9.65E-03	1.62E-02
3.66E-04	9.29E-04	5.08E-03	2.24E-04	1.04E-02	1.04E-02	2.75E-02	3.66E-04	9.29E-04	5.08E-03	2.24E-04	3.27E-04	1.04E-02	1.74E-02
3.77E-04	9.40E-04	5.44E-03	2.37E-04	1.13E-02	1.13E-02	2.96E-02	3.77E-04	9.40E-04	5.44E-03	2.37E-04	3.47E-04	1.13E-02	1.86E-02
3.90E-04	9.48E-04	5.81E-03	2.49E-04	1.21E-02	1.21E-02	3.15E-02	3.90E-04	9.48E-04	5.81E-03	2.49E-04	3.68E-04	1.21E-02	1.98E-02
4.04E-04	9.56E-04	6.21E-03	2.63E-04	1.27E-02	1.27E-02	3.31E-02	4.04E-04	9.56E-04	6.21E-03	2.63E-04	3.91E-04	1.27E-02	2.09E-02
4.22E-04	9.63E-04	6.68E-03	2.79E-04	1.30E-02	1.30E-02	3.44E-02	4.22E-04	9.63E-04	6.68E-03	2.79E-04	4.18E-04	1.30E-02	2.18E-02
4.39E-04	9.65E-04	7.13E-03	2.94E-04	1.33E-02	1.33E-02	3.54E-02	4.39E-04	9.65E-04	7.13E-03	2.94E-04	4.43E-04	1.33E-02	2.26E-02
4.60E-04	9.67E-04	7.70E-03	3.13E-04	1.35E-02	1.35E-02	3.65E-02	4.60E-04	9.67E-04	7.70E-03	3.13E-04	4.74E-04	1.35E-02	2.35E-02
4.82E-04	9.67E-04	8.32E-03	3.33E-04	1.38E-02	1.38E-02	3.78E-02	4.82E-04	9.67E-04	8.32E-03	3.33E-04	5.08E-04	1.38E-02	2.45E-02
5.05E-04	9.62E-04	8.99E-03	3.54E-04	1.43E-02	1.43E-02	3.93E-02	5.05E-04	9.62E-04	8.99E-03	3.54E-04	5.44E-04	1.43E-02	2.56E-02
5.34E-04	9.55E-04	9.81E-03	3.78E-04	1.48E-02	1.48E-02	4.12E-02	5.34E-04	9.55E-04	9.81E-03	3.78E-04	5.88E-04	1.48E-02	2.70E-02
5.64E-04	9.43E-04	1.07E-02	4.04E-04	1.53E-02	1.53E-02	4.32E-02	5.64E-04	9.43E-04	1.07E-02	4.04E-04	6.34E-04	1.53E-02	2.85E-02
6.00E-04	9.28E-04	1.16E-02	4.32E-04	1.58E-02	1.58E-02	4.53E-02	6.00E-04	9.28E-04	1.16E-02	4.32E-04	6.85E-04	1.58E-02	3.01E-02
6.47E-04	9.14E-04	1.30E-02	4.67E-04	1.65E-02	1.65E-02	4.80E-02	6.47E-04	9.14E-04	1.30E-02	4.67E-04	7.51E-04	1.65E-02	3.23E-02
6.58E-04	8.91E-04	1.35E-02	4.80E-04	1.61E-02	1.61E-02	4.77E-02	6.58E-04	8.91E-04	1.35E-02	4.80E-04	7.98E-04	1.61E-02	3.24E-02
6.23E-04	8.83E-04	1.27E-02	4.62E-04	1.47E-02	1.47E-02	4.41E-02	6.23E-04	8.83E-04	1.27E-02	4.62E-04	7.81E-04	1.47E-02	3.02E-02
5.94E-04	8.77E-04	1.21E-02	4.46E-04	1.36E-02	1.36E-02	4.13E-02	5.94E-04	8.77E-04	1.21E-02	4.46E-04	7.67E-04	1.36E-02	2.84E-02
5.66E-04	8.69E-04	1.15E-02	4.30E-04	1.27E-02	1.27E-02	3.89E-02	5.66E-04	8.69E-04	1.15E-02	4.30E-04	7.49E-04	1.27E-02	2.69E-02

5.42E-04	8.62E-04	1.10E-02	4.16E-04	1.20E-02	1.20E-02	3.69E-02	5.42E-04	8.62E-04	1.10E-02	4.16E-04	7.35E-04	1.20E-02	2.56E-02
5.21E-04	8.54E-04	1.06E-02	4.02E-04	1.14E-02	1.14E-02	3.51E-02	5.21E-04	8.54E-04	1.06E-02	4.02E-04	7.21E-04	1.14E-02	2.44E-02
5.01E-04	8.47E-04	1.01E-02	3.90E-04	1.08E-02	1.08E-02	3.35E-02	5.01E-04	8.47E-04	1.01E-02	3.90E-04	7.08E-04	1.08E-02	2.34E-02
4.84E-04	8.39E-04	9.77E-03	3.79E-04	1.03E-02	1.03E-02	3.22E-02	4.84E-04	8.39E-04	9.77E-03	3.79E-04	6.98E-04	1.03E-02	2.25E-02
4.66E-04	8.31E-04	9.38E-03	3.67E-04	9.91E-03	9.91E-03	3.09E-02	4.66E-04	8.31E-04	9.38E-03	3.67E-04	6.84E-04	9.91E-03	2.16E-02
4.50E-04	8.23E-04	9.00E-03	3.56E-04	9.52E-03	9.52E-03	2.97E-02	4.50E-04	8.23E-04	9.00E-03	3.56E-04	6.69E-04	9.52E-03	2.08E-02
4.34E-04	8.15E-04	8.64E-03	3.45E-04	9.15E-03	9.15E-03	2.85E-02	4.34E-04	8.15E-04	8.64E-03	3.45E-04	6.54E-04	9.15E-03	2.00E-02
4.20E-04	8.08E-04	8.34E-03	3.35E-04	8.79E-03	8.79E-03	2.75E-02	4.20E-04	8.08E-04	8.34E-03	3.35E-04	6.41E-04	8.79E-03	1.93E-02
4.20E-04	8.00E-04	8.44E-03	3.38E-04	9.17E-03	9.17E-03	2.83E-02	4.20E-04	8.00E-04	8.44E-03	3.38E-04	6.61E-04	9.17E-03	1.98E-02
4.35E-04	8.00E-04	8.90E-03	3.53E-04	1.01E-02	1.01E-02	3.06E-02	4.35E-04	8.00E-04	8.90E-03	3.53E-04	6.97E-04	1.01E-02	2.13E-02
4.51E-04	7.99E-04	9.38E-03	3.69E-04	1.12E-02	1.12E-02	3.35E-02	4.51E-04	7.99E-04	9.38E-03	3.69E-04	7.34E-04	1.12E-02	2.30E-02
4.68E-04	7.98E-04	9.87E-03	3.84E-04	1.28E-02	1.28E-02	3.72E-02	4.68E-04	7.98E-04	9.87E-03	3.84E-04	7.71E-04	1.28E-02	2.51E-02
4.68E-04	7.94E-04	1.00E-02	3.88E-04	1.41E-02	1.41E-02	3.98E-02	4.68E-04	7.94E-04	1.00E-02	3.88E-04	7.87E-04	1.41E-02	2.65E-02
4.51E-04	7.91E-04	9.58E-03	3.75E-04	1.32E-02	1.32E-02	3.77E-02	4.51E-04	7.91E-04	9.58E-03	3.75E-04	7.60E-04	1.32E-02	2.52E-02
4.36E-04	7.88E-04	9.22E-03	3.64E-04	1.25E-02	1.25E-02	3.58E-02	4.36E-04	7.88E-04	9.22E-03	3.64E-04	7.37E-04	1.25E-02	2.40E-02
4.22E-04	7.85E-04	8.88E-03	3.53E-04	1.18E-02	1.18E-02	3.41E-02	4.22E-04	7.85E-04	8.88E-03	3.53E-04	7.14E-04	1.18E-02	2.30E-02
4.10E-04	7.83E-04	8.56E-03	3.43E-04	1.12E-02	1.12E-02	3.24E-02	4.10E-04	7.83E-04	8.56E-03	3.43E-04	6.91E-04	1.12E-02	2.20E-02
3.98E-04	7.81E-04	8.25E-03	3.33E-04	1.06E-02	1.06E-02	3.10E-02	3.98E-04	7.81E-04	8.25E-03	3.33E-04	6.69E-04	1.06E-02	2.10E-02
3.88E-04	7.80E-04	7.98E-03	3.24E-04	9.96E-03	9.96E-03	2.94E-02	3.88E-04	7.80E-04	7.98E-03	3.24E-04	6.48E-04	9.96E-03	2.01E-02
3.79E-04	7.77E-04	7.69E-03	3.14E-04	9.48E-03	9.48E-03	2.81E-02	3.79E-04	7.77E-04	7.69E-03	3.14E-04	6.25E-04	9.48E-03	1.93E-02
3.70E-04	7.74E-04	7.39E-03	3.04E-04	9.11E-03	9.11E-03	2.71E-02	3.70E-04	7.74E-04	7.39E-03	3.04E-04	6.02E-04	9.11E-03	1.86E-02
3.62E-04	7.71E-04	7.14E-03	2.95E-04	8.65E-03	8.65E-03	2.59E-02	3.62E-04	7.71E-04	7.14E-03	2.95E-04	5.81E-04	8.65E-03	1.78E-02
3.63E-04	7.72E-04	7.17E-03	2.95E-04	9.04E-03	9.04E-03	2.67E-02	3.63E-04	7.72E-04	7.17E-03	2.95E-04	5.83E-04	9.04E-03	1.82E-02
3.72E-04	7.78E-04	7.49E-03	3.06E-04	9.90E-03	9.90E-03	2.87E-02	3.72E-04	7.78E-04	7.49E-03	3.06E-04	6.06E-04	9.90E-03	1.95E-02
3.82E-04	7.83E-04	7.80E-03	3.16E-04	1.11E-02	1.11E-02	3.15E-02	3.82E-04	7.83E-04	7.80E-03	3.16E-04	6.27E-04	1.11E-02	2.10E-02
3.92E-04	7.88E-04	8.11E-03	3.26E-04	1.27E-02	1.27E-02	3.49E-02	3.92E-04	7.88E-04	8.11E-03	3.26E-04	6.48E-04	1.27E-02	2.29E-02
3.94E-04	7.92E-04	8.16E-03	3.27E-04	1.30E-02	1.30E-02	3.56E-02	3.94E-04	7.92E-04	8.16E-03	3.27E-04	6.46E-04	1.30E-02	2.33E-02
3.84E-04	7.90E-04	7.88E-03	3.17E-04	1.16E-02	1.16E-02	3.26E-02	3.84E-04	7.90E-04	7.88E-03	3.17E-04	6.21E-04	1.16E-02	2.16E-02
3.75E-04	7.86E-04	7.55E-03	3.06E-04	1.07E-02	1.07E-02	3.04E-02	3.75E-04	7.86E-04	7.55E-03	3.06E-04	5.93E-04	1.07E-02	2.03E-02
3.67E-04	7.84E-04	7.33E-03	2.98E-04	9.71E-03	9.71E-03	2.82E-02	3.67E-04	7.84E-04	7.33E-03	2.98E-04	5.73E-04	9.71E-03	1.91E-02
3.60E-04	7.81E-04	7.08E-03	2.89E-04	8.94E-03	8.94E-03	2.64E-02	3.60E-04	7.81E-04	7.08E-03	2.89E-04	5.51E-04	8.94E-03	1.80E-02
3.52E-04	7.78E-04	6.83E-03	2.79E-04	8.28E-03	8.28E-03	2.48E-02	3.52E-04	7.78E-04	6.83E-03	2.79E-04	5.29E-04	8.28E-03	1.70E-02
3.55E-04	7.84E-04	6.87E-03	2.80E-04	8.24E-03	8.24E-03	2.48E-02	3.55E-04	7.84E-04	6.87E-03	2.80E-04	5.25E-04	8.24E-03	1.70E-02
3.64E-04	7.94E-04	7.17E-03	2.89E-04	8.78E-03	8.78E-03	2.62E-02	3.64E-04	7.94E-04	7.17E-03	2.89E-04	5.42E-04	8.78E-03	1.79E-02
3.74E-04	8.05E-04	7.48E-03	3.00E-04	9.30E-03	9.30E-03	2.76E-02	3.74E-04	8.05E-04	7.48E-03	3.00E-04	5.60E-04	9.30E-03	1.88E-02
3.84E-04	8.16E-04	7.75E-03	3.08E-04	9.98E-03	9.98E-03	2.92E-02	3.84E-04	8.16E-04	7.75E-03	3.08E-04	5.73E-04	9.98E-03	1.98E-02
3.95E-04	8.30E-04	8.04E-03	3.16E-04	1.06E-02	1.06E-02	3.08E-02	3.95E-04	8.30E-04	8.04E-03	3.16E-04	5.86E-04	1.06E-02	2.08E-02
4.06E-04	8.46E-04	8.36E-03	3.26E-04	1.11E-02	1.11E-02	3.21E-02	4.06E-04	8.46E-04	8.36E-03	3.26E-04	6.02E-04	1.11E-02	2.16E-02
4.19E-04	8.65E-04	8.72E-03	3.36E-04	1.14E-02	1.14E-02	3.32E-02	4.19E-04	8.65E-04	8.72E-03	3.36E-04	6.20E-04	1.14E-02	2.24E-02
4.33E-04	8.85E-04	9.08E-03	3.46E-04	1.19E-02	1.19E-02	3.45E-02	4.33E-04	8.85E-04	9.08E-03	3.46E-04	6.37E-04	1.19E-02	2.32E-02
4.48E-04	9.07E-04	9.47E-03	3.56E-04	1.23E-02	1.23E-02	3.57E-02	4.48E-04	9.07E-04	9.47E-03	3.56E-04	6.53E-04	1.23E-02	2.41E-02
4.64E-04	9.31E-04	9.85E-03	3.66E-04	1.29E-02	1.29E-02	3.75E-02	4.64E-04	9.31E-04	9.85E-03	3.66E-04	6.66E-04	1.29E-02	2.52E-02
4.85E-04	9.58E-04	1.04E-02	3.78E-04	1.31E-02	1.31E-02	3.84E-02	4.85E-04	9.58E-04	1.04E-02	3.78E-04	6.83E-04	1.31E-02	2.60E-02
5.08E-04	9.86E-04	1.08E-02	3.89E-04	1.40E-02	1.40E-02	4.06E-02	5.08E-04	9.86E-04	1.08E-02	3.89E-04	6.92E-04	1.40E-02	2.74E-02
5.14E-04	1.01E-03	1.08E-02	3.86E-04	1.27E-02	1.27E-02	3.81E-02	5.14E-04	1.01E-03	1.08E-02	3.86E-04	6.62E-04	1.27E-02	2.61E-02
4.96E-04	1.01E-03	1.03E-02	3.70E-04	1.11E-02	1.11E-02	3.44E-02	4.96E-04	1.01E-03	1.03E-02	3.70E-04	6.28E-04	1.11E-02	2.39E-02
4.79E-04	1.01E-03	9.77E-03	3.55E-04	1.00E-02	1.00E-02	3.17E-02	4.79E-04	1.01E-03	9.77E-03	3.55E-04	5.96E-04	1.00E-02	2.23E-02
4.65E-04	1.01E-03	9.33E-03	3.42E-04	8.98E-03	8.98E-03	2.91E-02	4.65E-04	1.01E-03	9.33E-03	3.42E-04	5.70E-04	8.98E-03	2.07E-02
4.70E-04	1.04E-03	9.25E-03	3.38E-04	8.64E-03	8.64E-03	2.84E-02	4.70E-04	1.04E-03	9.25E-03	3.38E-04	5.42E-04	8.64E-03	2.03E-02
4.93E-04	1.08E-03	9.69E-03	3.48E-04	9.15E-03	9.15E-03	2.99E-02	4.93E-04	1.08E-03	9.69E-03	3.48E-04	5.42E-04	9.15E-03	2.13E-02
5.19E-04	1.12E-03	1.01E-02	3.56E-04	9.86E-03	9.86E-03	3.18E-02	5.19E-04	1.12E-03	1.01E-02	3.56E-04	5.39E-04	9.86E-03	2.25E-02
5.49E-04	1.17E-03	1.07E-02	3.65E-04	9.59E-03	9.59E-03	3.19E-02	5.49E-04	1.17E-03	1.07E-02	3.65E-04	5.38E-04	9.59E-03	2.29E-02
5.84E-04	1.21E-03	1.11E-02	3.71E-04	9.37E-03	9.37E-03	3.21E-02	5.84E-04	1.21E-03	1.11E-02	3.71E-04	5.30E-04	9.37E-03	2.32E-02
6.24E-04	1.26E-03	1.17E-02	3.77E-04	8.84E-03	8.84E-03	3.16E-02	6.24E-04	1.26E-03	1.17E-02	3.77E-04	5.20E-04	8.84E-03	2.33E-02

6.72E-04	1.31E-03	1.24E-02	3.86E-04	7.88E-03	7.88E-03	3.05E-02	6.72E-04	1.31E-03	1.24E-02	3.86E-04	5.10E-04	7.88E-03	2.31E-02
7.28E-04	1.37E-03	1.30E-02	3.94E-04	7.33E-03	7.33E-03	3.02E-02	7.28E-04	1.37E-03	1.30E-02	3.94E-04	4.97E-04	7.33E-03	2.33E-02
8.00E-04	1.44E-03	1.40E-02	4.07E-04	6.12E-03	6.12E-03	2.89E-02	8.00E-04	1.44E-03	1.40E-02	4.07E-04	4.87E-04	6.12E-03	2.32E-02
8.85E-04	1.51E-03	1.48E-02	4.18E-04	4.79E-03	4.79E-03	2.72E-02	8.85E-04	1.51E-03	1.48E-02	4.18E-04	4.69E-04	4.79E-03	2.29E-02
9.94E-04	1.60E-03	1.59E-02	4.34E-04	3.59E-03	3.59E-03	2.61E-02	9.94E-04	1.60E-03	1.59E-02	4.34E-04	4.50E-04	3.59E-03	2.29E-02
1.12E-03	1.69E-03	1.67E-02	4.46E-04	2.97E-03	2.97E-03	2.59E-02	1.12E-03	1.69E-03	1.67E-02	4.46E-04	4.25E-04	2.97E-03	2.34E-02
1.29E-03	1.80E-03	1.77E-02	4.66E-04	2.49E-03	2.49E-03	2.63E-02	1.29E-03	1.80E-03	1.77E-02	4.66E-04	4.01E-04	2.49E-03	2.42E-02
1.47E-03	1.93E-03	1.82E-02	4.83E-04	2.19E-03	2.19E-03	2.64E-02	1.47E-03	1.93E-03	1.82E-02	4.83E-04	3.77E-04	2.19E-03	2.46E-02
1.68E-03	2.07E-03	1.79E-02	5.01E-04	1.99E-03	1.99E-03	2.62E-02	1.68E-03	2.07E-03	1.79E-02	5.01E-04	3.57E-04	1.99E-03	2.45E-02
1.88E-03	2.25E-03	1.72E-02	5.14E-04	1.83E-03	1.83E-03	2.55E-02	1.88E-03	2.25E-03	1.72E-02	5.14E-04	3.40E-04	1.83E-03	2.40E-02
2.07E-03	2.46E-03	1.67E-02	5.43E-04	1.65E-03	1.65E-03	2.50E-02	2.07E-03	2.46E-03	1.67E-02	5.43E-04	3.28E-04	1.65E-03	2.37E-02
2.22E-03	2.72E-03	1.50E-02	5.41E-04	1.57E-03	1.57E-03	2.36E-02	2.22E-03	2.72E-03	1.50E-02	5.41E-04	3.09E-04	1.57E-03	2.24E-02
2.40E-03	3.05E-03	1.34E-02	5.42E-04	1.48E-03	1.48E-03	2.23E-02	2.40E-03	3.05E-03	1.34E-02	5.42E-04	2.89E-04	1.48E-03	2.12E-02
2.59E-03	3.47E-03	1.17E-02	5.41E-04	1.39E-03	1.39E-03	2.10E-02	2.59E-03	3.47E-03	1.17E-02	5.41E-04	2.67E-04	1.39E-03	1.99E-02
2.84E-03	4.11E-03	1.01E-02	5.48E-04	1.30E-03	1.30E-03	2.02E-02	2.84E-03	4.11E-03	1.01E-02	5.48E-04	2.46E-04	1.30E-03	1.92E-02
3.16E-03	5.11E-03	8.49E-03	5.39E-04	1.21E-03	1.21E-03	1.97E-02	3.16E-03	5.11E-03	8.49E-03	5.39E-04	2.27E-04	1.21E-03	1.87E-02
3.58E-03	6.79E-03	6.97E-03	4.78E-04	1.14E-03	1.14E-03	2.01E-02	3.58E-03	6.79E-03	6.97E-03	4.78E-04	2.12E-04	1.14E-03	1.92E-02
4.39E-03	1.32E-02	4.82E-03	2.77E-04	1.05E-03	1.05E-03	2.48E-02	4.39E-03	1.32E-02	4.82E-03	2.77E-04	1.99E-04	1.05E-03	2.40E-02
4.53E-03	1.58E-02	4.10E-03	2.34E-04	1.01E-03	1.01E-03	2.67E-02	4.53E-03	1.58E-02	4.10E-03	2.34E-04	1.96E-04	1.01E-03	2.59E-02
4.83E-03	1.79E-02	3.64E-03	2.07E-04	9.83E-04	9.83E-04	2.86E-02	4.83E-03	1.79E-02	3.64E-03	2.07E-04	1.95E-04	9.83E-04	2.78E-02
5.57E-03	2.15E-02	3.01E-03	1.73E-04	9.19E-04	9.19E-04	3.21E-02	5.57E-03	2.15E-02	3.01E-03	1.73E-04	1.92E-04	9.19E-04	3.14E-02
6.01E-03	2.40E-02	2.78E-03	1.62E-04	8.85E-04	8.85E-04	3.47E-02	6.01E-03	2.40E-02	2.78E-03	1.62E-04	1.90E-04	8.85E-04	3.40E-02
8.92E-03	2.99E-02	2.47E-03	1.44E-04	8.33E-04	8.33E-04	4.31E-02	8.92E-03	2.99E-02	2.47E-03	1.44E-04	1.82E-04	8.33E-04	4.24E-02
1.01E-02	3.19E-02	2.26E-03	1.32E-04	7.88E-04	7.88E-04	4.59E-02	1.01E-02	3.19E-02	2.26E-03	1.32E-04	1.73E-04	7.88E-04	4.53E-02
9.97E-03	3.19E-02	2.17E-03	1.26E-04	7.66E-04	7.66E-04	4.57E-02	9.97E-03	3.19E-02	2.17E-03	1.26E-04	1.67E-04	7.66E-04	4.51E-02
9.79E-03	3.21E-02	2.09E-03	1.21E-04	7.45E-04	7.45E-04	4.55E-02	9.79E-03	3.21E-02	2.09E-03	1.21E-04	1.63E-04	7.45E-04	4.50E-02
9.69E-03	3.18E-02	2.02E-03	1.16E-04	7.26E-04	7.26E-04	4.51E-02	9.69E-03	3.18E-02	2.02E-03	1.16E-04	1.58E-04	7.26E-04	4.45E-02
9.52E-03	3.12E-02	1.94E-03	1.12E-04	7.08E-04	7.08E-04	4.42E-02	9.52E-03	3.12E-02	1.94E-03	1.12E-04	1.53E-04	7.08E-04	4.37E-02
9.25E-03	3.05E-02	1.88E-03	1.08E-04	6.93E-04	6.93E-04	4.31E-02	9.25E-03	3.05E-02	1.88E-03	1.08E-04	1.49E-04	6.93E-04	4.26E-02
9.19E-03	3.03E-02	1.81E-03	1.04E-04	6.76E-04	6.76E-04	4.28E-02	9.19E-03	3.03E-02	1.81E-03	1.04E-04	1.45E-04	6.76E-04	4.22E-02
8.95E-03	3.02E-02	1.75E-03	1.01E-04	6.60E-04	6.60E-04	4.23E-02	8.95E-03	3.02E-02	1.75E-03	1.01E-04	1.42E-04	6.60E-04	4.18E-02
8.78E-03	3.00E-02	1.69E-03	9.76E-05	6.46E-04	6.46E-04	4.19E-02	8.78E-03	3.00E-02	1.69E-03	9.76E-05	1.38E-04	6.46E-04	4.14E-02
8.78E-03	3.06E-02	1.64E-03	9.47E-05	6.32E-04	6.32E-04	4.24E-02	8.78E-03	3.06E-02	1.64E-03	9.47E-05	1.35E-04	6.32E-04	4.19E-02
8.60E-03	3.03E-02	1.58E-03	9.16E-05	6.22E-04	6.22E-04	4.18E-02	8.60E-03	3.03E-02	1.58E-03	9.16E-05	1.31E-04	6.22E-04	4.13E-02
8.54E-03	3.00E-02	1.54E-03	8.87E-05	6.13E-04	6.13E-04	4.14E-02	8.54E-03	3.00E-02	1.54E-03	8.87E-05	1.28E-04	6.13E-04	4.10E-02
8.48E-03	3.02E-02	1.49E-03	8.60E-05	6.04E-04	6.04E-04	4.15E-02	8.48E-03	3.02E-02	1.49E-03	8.60E-05	1.24E-04	6.04E-04	4.10E-02
8.45E-03	3.12E-02	1.45E-03	8.36E-05	5.93E-04	5.93E-04	4.23E-02	8.45E-03	3.12E-02	1.45E-03	8.36E-05	1.21E-04	5.93E-04	4.19E-02
7.42E-03	3.18E-02	1.38E-03	7.90E-05	5.77E-04	5.77E-04	4.19E-02	7.42E-03	3.18E-02	1.38E-03	7.90E-05	1.15E-04	5.77E-04	4.14E-02
6.92E-03	3.24E-02	1.35E-03	7.70E-05	5.69E-04	5.69E-04	4.19E-02	6.92E-03	3.24E-02	1.35E-03	7.70E-05	1.12E-04	5.69E-04	4.15E-02
6.70E-03	3.25E-02	1.31E-03	7.38E-05	5.56E-04	5.56E-04	4.17E-02	6.70E-03	3.25E-02	1.31E-03	7.38E-05	1.07E-04	5.56E-04	4.13E-02
6.48E-03	3.10E-02	1.28E-03	7.07E-05	5.42E-04	5.42E-04	3.99E-02	6.48E-03	3.10E-02	1.28E-03	7.07E-05	1.01E-04	5.42E-04	3.95E-02
6.52E-03	3.09E-02	1.27E-03	6.87E-05	5.32E-04	5.32E-04	3.98E-02	6.52E-03	3.09E-02	1.27E-03	6.87E-05	9.66E-05	5.32E-04	3.94E-02
6.61E-03	3.13E-02	1.25E-03	6.68E-05	5.22E-04	5.22E-04	4.03E-02	6.61E-03	3.13E-02	1.25E-03	6.68E-05	9.28E-05	5.22E-04	3.99E-02
6.70E-03	3.19E-02	1.24E-03	6.49E-05	5.13E-04	5.13E-04	4.09E-02	6.70E-03	3.19E-02	1.24E-03	6.49E-05	8.91E-05	5.13E-04	4.05E-02
6.73E-03	3.18E-02	1.22E-03	6.29E-05	5.06E-04	5.06E-04	4.08E-02	6.73E-03	3.18E-02	1.22E-03	6.29E-05	8.57E-05	5.06E-04	4.04E-02
9.17E-03	3.76E-02	1.18E-03	5.94E-05	4.90E-04	4.90E-04	4.90E-02	9.17E-03	3.76E-02	1.18E-03	5.94E-05	8.01E-05	4.90E-04	4.86E-02
9.07E-03	3.74E-02	1.16E-03	5.76E-05	4.84E-04	4.84E-04	4.87E-02	9.07E-03	3.74E-02	1.16E-03	5.76E-05	7.70E-05	4.84E-04	4.83E-02
8.97E-03	3.73E-02	1.14E-03	5.58E-05	4.78E-04	4.78E-04	4.85E-02	8.97E-03	3.73E-02	1.14E-03	5.58E-05	7.41E-05	4.78E-04	4.81E-02
8.89E-03	3.73E-02	1.12E-03	5.41E-05	4.71E-04	4.71E-04	4.83E-02	8.89E-03	3.73E-02	1.12E-03	5.41E-05	7.15E-05	4.71E-04	4.79E-02
8.80E-03	3.74E-02	1.09E-03	5.24E-05	4.65E-04	4.65E-04	4.82E-02	8.80E-03	3.74E-02	1.09E-03	5.24E-05	6.91E-05	4.65E-04	4.78E-02
8.75E-03	3.75E-02	1.07E-03	5.08E-05	4.58E-04	4.58E-04	4.83E-02	8.75E-03	3.75E-02	1.07E-03	5.08E-05	6.69E-05	4.58E-04	4.79E-02
8.91E-03	3.92E-02	1.04E-03	4.91E-05	4.44E-04	4.44E-04	5.01E-02	8.91E-03	3.92E-02	1.04E-03	4.91E-05	6.49E-05	4.44E-04	4.97E-02
8.84E-03	3.91E-02	1.01E-03	4.77E-05	4.38E-04	4.38E-04	4.99E-02	8.84E-03	3.91E-02	1.01E-03	4.77E-05	6.30E-05	4.38E-04	4.95E-02
8.78E-03	3.92E-02	9.77E-04	4.62E-05	4.34E-04	4.34E-04	4.99E-02	8.78E-03	3.92E-02	9.77E-04	4.62E-05	6.14E-05	4.34E-04	4.95E-02

8.75E-03	3.92E-02	9.46E-04	4.49E-05	4.30E-04	4.30E-04	4.99E-02	8.75E-03	3.92E-02	9.46E-04	4.49E-05	5.99E-05	4.30E-04	4.95E-02
8.68E-03	3.89E-02	9.17E-04	4.37E-05	4.28E-04	4.28E-04	4.94E-02	8.68E-03	3.89E-02	9.17E-04	4.37E-05	5.85E-05	4.28E-04	4.90E-02
8.76E-03	3.99E-02	8.83E-04	4.24E-05	4.21E-04	4.21E-04	5.04E-02	8.76E-03	3.99E-02	8.83E-04	4.24E-05	5.73E-05	4.21E-04	5.00E-02
8.67E-03	3.94E-02	8.54E-04	4.15E-05	4.21E-04	4.21E-04	4.99E-02	8.67E-03	3.94E-02	8.54E-04	4.15E-05	5.62E-05	4.21E-04	4.95E-02
8.52E-03	3.83E-02	8.29E-04	4.08E-05	4.24E-04	4.24E-04	4.86E-02	8.52E-03	3.83E-02	8.29E-04	4.08E-05	5.52E-05	4.24E-04	4.82E-02
8.41E-03	3.75E-02	8.03E-04	4.00E-05	4.25E-04	4.25E-04	4.76E-02	8.41E-03	3.75E-02	8.03E-04	4.00E-05	5.44E-05	4.25E-04	4.72E-02
8.12E-03	3.59E-02	7.78E-04	3.94E-05	4.28E-04	4.28E-04	4.57E-02	8.12E-03	3.59E-02	7.78E-04	3.94E-05	5.36E-05	4.28E-04	4.53E-02
7.88E-03	3.50E-02	7.52E-04	3.87E-05	4.27E-04	4.27E-04	4.45E-02	7.88E-03	3.50E-02	7.52E-04	3.87E-05	5.28E-05	4.27E-04	4.41E-02
8.01E-03	3.57E-02	7.21E-04	3.78E-05	4.21E-04	4.21E-04	4.53E-02	8.01E-03	3.57E-02	7.21E-04	3.78E-05	5.21E-05	4.21E-04	4.50E-02
8.55E-03	3.94E-02	6.79E-04	3.65E-05	4.03E-04	4.03E-04	4.95E-02	8.55E-03	3.94E-02	6.79E-04	3.65E-05	5.08E-05	4.03E-04	4.92E-02
8.57E-03	4.01E-02	6.48E-04	3.55E-05	3.96E-04	3.96E-04	5.02E-02	8.57E-03	4.01E-02	6.48E-04	3.55E-05	5.00E-05	3.96E-04	4.98E-02
8.55E-03	4.01E-02	6.21E-04	3.47E-05	3.90E-04	3.90E-04	5.01E-02	8.55E-03	4.01E-02	6.21E-04	3.47E-05	4.94E-05	3.90E-04	4.98E-02
8.55E-03	4.05E-02	5.95E-04	3.39E-05	3.84E-04	3.84E-04	5.04E-02	8.55E-03	4.05E-02	5.95E-04	3.39E-05	4.88E-05	3.84E-04	5.01E-02
8.52E-03	4.03E-02	5.73E-04	3.33E-05	3.79E-04	3.79E-04	5.02E-02	8.52E-03	4.03E-02	5.73E-04	3.33E-05	4.83E-05	3.79E-04	4.99E-02
8.43E-03	3.99E-02	5.55E-04	3.28E-05	3.76E-04	3.76E-04	4.96E-02	8.43E-03	3.99E-02	5.55E-04	3.28E-05	4.80E-05	3.76E-04	4.93E-02
8.47E-03	4.04E-02	5.34E-04	3.20E-05	3.69E-04	3.69E-04	5.02E-02	8.47E-03	4.04E-02	5.34E-04	3.20E-05	4.75E-05	3.69E-04	4.99E-02
8.47E-03	4.07E-02	5.17E-04	3.15E-05	3.63E-04	3.63E-04	5.05E-02	8.47E-03	4.07E-02	5.17E-04	3.15E-05	4.70E-05	3.63E-04	5.01E-02
8.45E-03	4.09E-02	5.02E-04	3.10E-05	3.58E-04	3.58E-04	5.06E-02	8.45E-03	4.09E-02	5.02E-04	3.10E-05	4.66E-05	3.58E-04	5.03E-02
8.41E-03	4.11E-02	4.89E-04	3.06E-05	3.53E-04	3.53E-04	5.07E-02	8.41E-03	4.11E-02	4.89E-04	3.06E-05	4.62E-05	3.53E-04	5.04E-02
8.19E-03	3.90E-02	4.92E-04	3.12E-05	3.62E-04	3.62E-04	4.84E-02	8.19E-03	3.90E-02	4.92E-04	3.12E-05	4.61E-05	3.62E-04	4.81E-02
8.15E-03	3.87E-02	4.85E-04	3.10E-05	3.60E-04	3.60E-04	4.80E-02	8.15E-03	3.87E-02	4.85E-04	3.10E-05	4.58E-05	3.60E-04	4.77E-02
8.02E-03	3.78E-02	4.81E-04	3.09E-05	3.60E-04	3.60E-04	4.71E-02	8.02E-03	3.78E-02	4.81E-04	3.09E-05	4.55E-05	3.60E-04	4.68E-02
8.04E-03	3.80E-02	4.74E-04	3.06E-05	3.55E-04	3.55E-04	4.73E-02	8.04E-03	3.80E-02	4.74E-04	3.06E-05	4.51E-05	3.55E-04	4.69E-02
8.03E-03	3.79E-02	4.67E-04	3.03E-05	3.50E-04	3.50E-04	4.71E-02	8.03E-03	3.79E-02	4.67E-04	3.03E-05	4.47E-05	3.50E-04	4.68E-02
7.91E-03	3.72E-02	4.62E-04	3.01E-05	3.46E-04	3.46E-04	4.63E-02	7.91E-03	3.72E-02	4.62E-04	3.01E-05	4.44E-05	3.46E-04	4.60E-02
7.87E-03	3.71E-02	4.56E-04	2.98E-05	3.39E-04	3.39E-04	4.61E-02	7.87E-03	3.71E-02	4.56E-04	2.98E-05	4.39E-05	3.39E-04	4.59E-02
7.79E-03	3.69E-02	4.50E-04	2.94E-05	3.32E-04	3.32E-04	4.59E-02	7.79E-03	3.69E-02	4.50E-04	2.94E-05	4.35E-05	3.32E-04	4.56E-02
7.66E-03	3.68E-02	4.45E-04	2.91E-05	3.25E-04	3.25E-04	4.56E-02	7.66E-03	3.68E-02	4.45E-04	2.91E-05	4.31E-05	3.25E-04	4.53E-02
7.63E-03	3.66E-02	4.41E-04	2.88E-05	3.19E-04	3.19E-04	4.54E-02	7.63E-03	3.66E-02	4.41E-04	2.88E-05	4.27E-05	3.19E-04	4.51E-02
7.71E-03	3.71E-02	4.35E-04	2.85E-05	3.12E-04	3.12E-04	4.59E-02	7.71E-03	3.71E-02	4.35E-04	2.85E-05	4.23E-05	3.12E-04	4.56E-02
7.95E-03	3.87E-02	4.27E-04	2.79E-05	3.01E-04	3.01E-04	4.77E-02	7.95E-03	3.87E-02	4.27E-04	2.79E-05	4.18E-05	3.01E-04	4.74E-02
8.00E-03	3.98E-02	4.18E-04	2.72E-05	2.86E-04	2.86E-04	4.88E-02	8.00E-03	3.98E-02	4.18E-04	2.72E-05	4.10E-05	2.86E-04	4.85E-02
7.99E-03	4.01E-02	4.15E-04	2.69E-05	2.81E-04	2.81E-04	4.91E-02	7.99E-03	4.01E-02	4.15E-04	2.69E-05	4.07E-05	2.81E-04	4.89E-02
8.18E-03	4.19E-02	4.11E-04	2.65E-05	2.74E-04	2.74E-04	5.10E-02	8.18E-03	4.19E-02	4.11E-04	2.65E-05	4.03E-05	2.74E-04	5.08E-02
8.59E-03	4.54E-02	4.06E-04	2.60E-05	2.67E-04	2.67E-04	5.50E-02	8.59E-03	4.54E-02	4.06E-04	2.60E-05	3.99E-05	2.67E-04	5.47E-02
9.89E-03	5.43E-02	3.96E-04	2.52E-05	2.50E-04	2.50E-04	6.52E-02	9.89E-03	5.43E-02	3.96E-04	2.52E-05	3.92E-05	2.50E-04	6.49E-02
9.48E-03	5.16E-02	4.00E-04	2.52E-05	2.45E-04	2.45E-04	6.20E-02	9.48E-03	5.16E-02	4.00E-04	2.52E-05	3.90E-05	2.45E-04	6.18E-02
8.61E-03	5.08E-02	4.01E-04	2.49E-05	2.35E-04	2.35E-04	6.03E-02	8.61E-03	5.08E-02	4.01E-04	2.49E-05	3.87E-05	2.35E-04	6.01E-02
8.30E-03	4.98E-02	4.02E-04	2.49E-05	2.31E-04	2.31E-04	5.90E-02	8.30E-03	4.98E-02	4.02E-04	2.49E-05	3.87E-05	2.31E-04	5.88E-02
8.41E-03	5.17E-02	3.98E-04	2.44E-05	2.23E-04	2.23E-04	6.10E-02	8.41E-03	5.17E-02	3.98E-04	2.44E-05	3.84E-05	2.23E-04	6.08E-02
7.96E-03	4.97E-02	3.97E-04	2.43E-05	2.20E-04	2.20E-04	5.86E-02	7.96E-03	4.97E-02	3.97E-04	2.43E-05	3.83E-05	2.20E-04	5.84E-02
7.62E-03	4.79E-02	3.96E-04	2.41E-05	2.15E-04	2.15E-04	5.64E-02	7.62E-03	4.79E-02	3.96E-04	2.41E-05	3.81E-05	2.15E-04	5.62E-02
4.45E-03	2.61E-02	3.48E-04	2.18E-05	1.84E-04	1.84E-04	3.13E-02	4.45E-03	2.61E-02	3.48E-04	2.18E-05	3.55E-05	1.84E-04	3.11E-02
8.77E-03	4.94E-02	3.72E-04	2.27E-05	1.98E-04	1.98E-04	5.90E-02	8.77E-03	4.94E-02	3.72E-04	2.27E-05	3.67E-05	1.98E-04	5.88E-02
7.30E-03	3.73E-02	3.76E-04	2.28E-05	2.00E-04	2.00E-04	4.54E-02	7.30E-03	3.73E-02	3.76E-04	2.28E-05	3.67E-05	2.00E-04	4.52E-02
8.58E-03	3.74E-02	3.71E-04	2.25E-05	1.98E-04	1.98E-04	4.68E-02	8.58E-03	3.74E-02	3.71E-04	2.25E-05	3.62E-05	1.98E-04	4.66E-02
9.93E-03	4.47E-02	3.62E-04	2.19E-05	1.93E-04	1.93E-04	5.54E-02	9.93E-03	4.47E-02	3.62E-04	2.19E-05	3.53E-05	1.93E-04	5.52E-02
1.04E-02	4.65E-02	3.53E-04	2.14E-05	1.89E-04	1.89E-04	5.76E-02	1.04E-02	4.65E-02	3.53E-04	2.14E-05	3.46E-05	1.89E-04	5.75E-02
1.08E-02	4.80E-02	3.45E-04	2.10E-05	1.85E-04	1.85E-04	5.96E-02	1.08E-02	4.80E-02	3.45E-04	2.10E-05	3.40E-05	1.85E-04	5.95E-02
1.11E-02	4.79E-02	3.39E-04	2.07E-05	1.83E-04	1.83E-04	5.97E-02	1.11E-02	4.79E-02	3.39E-04	2.07E-05	3.34E-05	1.83E-04	5.96E-02
1.15E-02	4.83E-02	3.35E-04	2.04E-05	1.81E-04	1.81E-04	6.06E-02	1.15E-02	4.83E-02	3.35E-04	2.04E-05	3.30E-05	1.81E-04	6.04E-02
1.11E-02	4.36E-02	3.37E-04	2.04E-05	1.83E-04	1.83E-04	5.55E-02	1.11E-02	4.36E-02	3.37E-04	2.04E-05	3.29E-05	1.83E-04	5.54E-02
1.14E-02	4.30E-02	3.35E-04	2.03E-05	1.82E-04	1.82E-04	5.51E-02	1.14E-02	4.30E-02	3.35E-04	2.03E-05	3.25E-05	1.82E-04	5.50E-02
1.21E-02	4.42E-02	3.28E-04	1.99E-05	1.79E-04	1.79E-04	5.71E-02	1.21E-02	4.42E-02	3.28E-04	1.99E-05	3.20E-05	1.79E-04	5.69E-02

Chronic Hazard

1.25E-02	4.40E-02	3.24E-04	1.96E-05	1.77E-04	1.77E-04	5.72E-02	1.25E-02	4.40E-02	3.24E-04	1.96E-05	3.16E-05	1.77E-04	5.71E-02

Chronic Noncancer Hazard

Hazard Index = C_i/REL_i

Concentration (µg/m^3)

	Ci (Annual)	Chronic REL	Chronic HI
Max Unmitig	0.63	5	0.13
Max Mitigat	0.63	5	0.13

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Unmitigated PM10 Annual Concentration

Mains	Leads	BSY	IMF	CHE-WHS	Roads	Total
1.07E-03	5.58E-03	1.99E-02	1.23E-03	2.57E-03	2.57E-03	3.29E-02
1.03E-03	5.55E-03	1.93E-02	1.17E-03	2.53E-03	2.53E-03	3.22E-02
1.00E-03	5.53E-03	1.89E-02	1.13E-03	2.51E-03	2.51E-03	3.16E-02
9.66E-04	5.46E-03	1.82E-02	1.07E-03	2.45E-03	2.45E-03	3.06E-02
9.46E-04	5.48E-03	1.80E-02	1.05E-03	2.46E-03	2.46E-03	3.04E-02
9.19E-04	5.44E-03	1.75E-02	1.01E-03	2.43E-03	2.43E-03	2.98E-02
8.96E-04	5.42E-03	1.72E-02	9.78E-04	2.41E-03	2.41E-03	2.93E-02
8.75E-04	5.40E-03	1.68E-02	9.49E-04	2.39E-03	2.39E-03	2.88E-02
1.11E-03	5.52E-03	2.12E-02	1.32E-03	2.83E-03	2.83E-03	3.48E-02
1.07E-03	5.50E-03	2.07E-02	1.27E-03	2.79E-03	2.79E-03	3.41E-02
1.04E-03	5.46E-03	2.01E-02	1.22E-03	2.75E-03	2.75E-03	3.33E-02
1.00E-03	5.42E-03	1.95E-02	1.17E-03	2.70E-03	2.70E-03	3.25E-02
9.78E-04	5.42E-03	1.91E-02	1.13E-03	2.69E-03	2.69E-03	3.20E-02
9.48E-04	5.38E-03	1.86E-02	1.08E-03	2.64E-03	2.64E-03	3.13E-02
9.18E-04	5.33E-03	1.80E-02	1.04E-03	2.60E-03	2.60E-03	3.05E-02
9.04E-04	5.35E-03	1.79E-02	1.02E-03	2.60E-03	2.60E-03	3.04E-02
1.15E-03	5.46E-03	2.27E-02	1.43E-03	3.13E-03	3.13E-03	3.70E-02
1.11E-03	5.44E-03	2.20E-02	1.37E-03	3.07E-03	3.07E-03	3.61E-02
1.07E-03	5.38E-03	2.12E-02	1.30E-03	3.00E-03	3.00E-03	3.50E-02
1.03E-03	5.35E-03	2.06E-02	1.25E-03	2.95E-03	2.95E-03	3.42E-02
1.01E-03	5.35E-03	2.03E-02	1.21E-03	2.93E-03	2.93E-03	3.37E-02
9.75E-04	5.30E-03	1.96E-02	1.15E-03	2.86E-03	2.86E-03	3.27E-02
9.54E-04	5.31E-03	1.93E-02	1.12E-03	2.85E-03	2.85E-03	3.24E-02
9.27E-04	5.27E-03	1.88E-02	1.08E-03	2.81E-03	2.81E-03	3.17E-02
1.19E-03	5.40E-03	2.41E-02	1.53E-03	3.45E-03	3.45E-03	3.91E-02
1.15E-03	5.38E-03	2.35E-02	1.47E-03	3.39E-03	3.39E-03	3.83E-02
1.11E-03	5.33E-03	2.26E-02	1.40E-03	3.29E-03	3.29E-03	3.70E-02
1.07E-03	5.32E-03	2.21E-02	1.35E-03	3.24E-03	3.24E-03	3.63E-02
1.04E-03	5.27E-03	2.13E-02	1.28E-03	3.17E-03	3.17E-03	3.53E-02
1.01E-03	5.26E-03	2.08E-02	1.24E-03	3.13E-03	3.13E-03	3.46E-02
1.24E-03	5.35E-03	2.58E-02	1.65E-03	3.81E-03	3.81E-03	4.16E-02
1.19E-03	5.32E-03	2.50E-02	1.58E-03	3.72E-03	3.72E-03	4.05E-02
1.15E-03	5.29E-03	2.41E-02	1.50E-03	3.62E-03	3.62E-03	3.93E-02
1.11E-03	5.26E-03	2.34E-02	1.44E-03	3.55E-03	3.55E-03	3.83E-02
1.08E-03	5.23E-03	2.27E-02	1.38E-03	3.47E-03	3.47E-03	3.73E-02
1.04E-03	5.20E-03	2.21E-02	1.32E-03	3.40E-03	3.40E-03	3.64E-02
1.29E-03	5.30E-03	2.75E-02	1.77E-03	4.21E-03	4.21E-03	4.43E-02
1.24E-03	5.27E-03	2.67E-02	1.69E-03	4.10E-03	4.10E-03	4.31E-02
1.19E-03	5.23E-03	2.56E-02	1.61E-03	3.97E-03	3.97E-03	4.16E-02
1.15E-03	5.19E-03	2.47E-02	1.53E-03	3.85E-03	3.85E-03	4.02E-02
1.11E-03	5.16E-03	2.40E-02	1.46E-03	3.76E-03	3.76E-03	3.92E-02
1.07E-03	5.13E-03	2.33E-02	1.40E-03	3.68E-03	3.68E-03	3.82E-02
1.04E-03	5.10E-03	2.26E-02	1.34E-03	3.59E-03	3.59E-03	3.72E-02
1.02E-03	5.14E-03	2.25E-02	1.32E-03	3.60E-03	3.60E-03	3.71E-02

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Mitigated PM10 Annual Concentration

Mains	Leads	BSY	IMF	CHE-WHS	Roads	Total
1.07E-03	5.58E-03	1.99E-02	1.23E-03	6.91E-04	2.57E-03	3.11E-02
1.03E-03	5.55E-03	1.93E-02	1.17E-03	6.75E-04	2.53E-03	3.03E-02
1.00E-03	5.53E-03	1.89E-02	1.13E-03	6.67E-04	2.51E-03	2.98E-02
9.66E-04	5.46E-03	1.82E-02	1.07E-03	6.42E-04	2.45E-03	2.88E-02
9.46E-04	5.48E-03	1.80E-02	1.05E-03	6.44E-04	2.46E-03	2.86E-02
9.19E-04	5.44E-03	1.75E-02	1.01E-03	6.30E-04	2.43E-03	2.80E-02
8.96E-04	5.42E-03	1.72E-02	9.78E-04	6.21E-04	2.41E-03	2.75E-02
8.75E-04	5.40E-03	1.68E-02	9.49E-04	6.13E-04	2.39E-03	2.71E-02
1.11E-03	5.52E-03	2.12E-02	1.32E-03	8.21E-04	2.83E-03	3.28E-02
1.07E-03	5.50E-03	2.07E-02	1.27E-03	8.04E-04	2.79E-03	3.21E-02
1.04E-03	5.46E-03	2.01E-02	1.22E-03	7.81E-04	2.75E-03	3.13E-02
1.00E-03	5.42E-03	1.95E-02	1.17E-03	7.60E-04	2.70E-03	3.05E-02
9.78E-04	5.42E-03	1.91E-02	1.13E-03	7.51E-04	2.69E-03	3.01E-02
9.48E-04	5.38E-03	1.86E-02	1.08E-03	7.30E-04	2.64E-03	2.94E-02
9.18E-04	5.33E-03	1.80E-02	1.04E-03	7.08E-04	2.60E-03	2.86E-02
9.04E-04	5.35E-03	1.79E-02	1.02E-03	7.09E-04	2.60E-03	2.85E-02
1.15E-03	5.46E-03	2.27E-02	1.43E-03	9.76E-04	3.13E-03	3.48E-02
1.11E-03	5.44E-03	2.20E-02	1.37E-03	9.45E-04	3.07E-03	3.39E-02
1.07E-03	5.38E-03	2.12E-02	1.30E-03	9.08E-04	3.00E-03	3.29E-02
1.03E-03	5.35E-03	2.06E-02	1.25E-03	8.81E-04	2.95E-03	3.21E-02
1.01E-03	5.35E-03	2.03E-02	1.21E-03	8.68E-04	2.93E-03	3.16E-02
9.75E-04	5.30E-03	1.96E-02	1.15E-03	8.35E-04	2.86E-03	3.07E-02
9.54E-04	5.31E-03	1.93E-02	1.12E-03	8.26E-04	2.85E-03	3.04E-02
9.27E-04	5.27E-03	1.88E-02	1.08E-03	8.04E-04	2.81E-03	2.97E-02
1.19E-03	5.40E-03	2.41E-02	1.53E-03	1.14E-03	3.45E-03	3.68E-02
1.15E-03	5.38E-03	2.35E-02	1.47E-03	1.11E-03	3.39E-03	3.60E-02
1.11E-03	5.33E-03	2.26E-02	1.40E-03	1.06E-03	3.29E-03	3.48E-02
1.07E-03	5.32E-03	2.21E-02	1.35E-03	1.03E-03	3.24E-03	3.41E-02
1.04E-03	5.27E-03	2.13E-02	1.28E-03	9.90E-04	3.17E-03	3.31E-02
1.01E-03	5.26E-03	2.08E-02	1.24E-03	9.64E-04	3.13E-03	3.24E-02
1.24E-03	5.35E-03	2.58E-02	1.65E-03	1.34E-03	3.81E-03	3.92E-02
1.19E-03	5.32E-03	2.50E-02	1.58E-03	1.29E-03	3.72E-03	3.81E-02
1.15E-03	5.29E-03	2.41E-02	1.50E-03	1.23E-03	3.62E-03	3.69E-02
1.11E-03	5.26E-03	2.34E-02	1.44E-03	1.19E-03	3.55E-03	3.60E-02
1.08E-03	5.23E-03	2.27E-02	1.38E-03	1.14E-03	3.47E-03	3.50E-02
1.04E-03	5.20E-03	2.21E-02	1.32E-03	1.10E-03	3.40E-03	3.41E-02
1.29E-03	5.30E-03	2.75E-02	1.77E-03	1.56E-03	4.21E-03	4.17E-02
1.24E-03	5.27E-03	2.67E-02	1.69E-03	1.49E-03	4.10E-03	4.05E-02
1.19E-03	5.23E-03	2.56E-02	1.61E-03	1.41E-03	3.97E-03	3.91E-02
1.15E-03	5.19E-03	2.47E-02	1.53E-03	1.34E-03	3.85E-03	3.77E-02
1.11E-03	5.16E-03	2.40E-02	1.46E-03	1.29E-03	3.76E-03	3.67E-02
1.07E-03	5.13E-03	2.33E-02	1.40E-03	1.24E-03	3.68E-03	3.58E-02
1.04E-03	5.10E-03	2.26E-02	1.34E-03	1.19E-03	3.59E-03	3.48E-02
1.02E-03	5.14E-03	2.25E-02	1.32E-03	1.18E-03	3.60E-03	3.47E-02

1.34E-03	5.24E-03	2.93E-02	1.89E-03	4.63E-03	4.63E-03	4.71E-02	1.34E-03	5.24E-03	2.93E-02	1.89E-03	1.79E-03	4.63E-03	4.42E-02
1.29E-03	5.20E-03	2.82E-02	1.79E-03	4.47E-03	4.47E-03	4.54E-02	1.29E-03	5.20E-03	2.82E-02	1.79E-03	1.69E-03	4.47E-03	4.26E-02
1.23E-03	5.15E-03	2.70E-02	1.70E-03	4.31E-03	4.31E-03	4.37E-02	1.23E-03	5.15E-03	2.70E-02	1.70E-03	1.59E-03	4.31E-03	4.10E-02
1.19E-03	5.12E-03	2.61E-02	1.62E-03	4.19E-03	4.19E-03	4.24E-02	1.19E-03	5.12E-03	2.61E-02	1.62E-03	1.52E-03	4.19E-03	3.98E-02
1.15E-03	5.10E-03	2.53E-02	1.55E-03	4.08E-03	4.08E-03	4.13E-02	1.15E-03	5.10E-03	2.53E-02	1.55E-03	1.46E-03	4.08E-03	3.87E-02
1.11E-03	5.07E-03	2.45E-02	1.48E-03	3.97E-03	3.97E-03	4.01E-02	1.11E-03	5.07E-03	2.45E-02	1.48E-03	1.39E-03	3.97E-03	3.75E-02
1.06E-03	5.01E-03	2.35E-02	1.40E-03	3.83E-03	3.83E-03	3.86E-02	1.06E-03	5.01E-03	2.35E-02	1.40E-03	1.31E-03	3.83E-03	3.61E-02
1.05E-03	5.08E-03	2.37E-02	1.39E-03	3.88E-03	3.88E-03	3.89E-02	1.05E-03	5.08E-03	2.37E-02	1.39E-03	1.32E-03	3.88E-03	3.64E-02
1.40E-03	5.18E-03	3.11E-02	2.02E-03	5.07E-03	5.07E-03	4.99E-02	1.40E-03	5.18E-03	3.11E-02	2.02E-03	2.04E-03	5.07E-03	4.68E-02
1.34E-03	5.14E-03	2.98E-02	1.91E-03	4.87E-03	4.87E-03	4.79E-02	1.34E-03	5.14E-03	2.98E-02	1.91E-03	1.91E-03	4.87E-03	4.50E-02
1.28E-03	5.10E-03	2.87E-02	1.81E-03	4.70E-03	4.70E-03	4.63E-02	1.28E-03	5.10E-03	2.87E-02	1.81E-03	1.81E-03	4.70E-03	4.34E-02
1.23E-03	5.06E-03	2.76E-02	1.72E-03	4.53E-03	4.53E-03	4.46E-02	1.23E-03	5.06E-03	2.76E-02	1.72E-03	1.70E-03	4.53E-03	4.18E-02
1.18E-03	5.02E-03	2.66E-02	1.63E-03	4.39E-03	4.39E-03	4.32E-02	1.18E-03	5.02E-03	2.66E-02	1.63E-03	1.62E-03	4.39E-03	4.04E-02
1.14E-03	5.01E-03	2.58E-02	1.57E-03	4.29E-03	4.29E-03	4.21E-02	1.14E-03	5.01E-03	2.58E-02	1.57E-03	1.55E-03	4.29E-03	3.94E-02
1.27E-03	4.99E-03	2.90E-02	1.81E-03	4.90E-03	4.90E-03	4.69E-02	1.27E-03	4.99E-03	2.90E-02	1.81E-03	1.90E-03	4.90E-03	4.39E-02
1.23E-03	4.97E-03	2.81E-02	1.73E-03	4.75E-03	4.75E-03	4.55E-02	1.23E-03	4.97E-03	2.81E-02	1.73E-03	1.81E-03	4.75E-03	4.26E-02
1.18E-03	4.94E-03	2.72E-02	1.65E-03	4.62E-03	4.62E-03	4.42E-02	1.18E-03	4.94E-03	2.72E-02	1.65E-03	1.72E-03	4.62E-03	4.13E-02
1.32E-03	4.94E-03	3.06E-02	1.92E-03	5.29E-03	5.29E-03	4.93E-02	1.32E-03	4.94E-03	3.06E-02	1.92E-03	2.11E-03	5.29E-03	4.62E-02
1.27E-03	4.91E-03	2.96E-02	1.83E-03	5.13E-03	5.13E-03	4.78E-02	1.27E-03	4.91E-03	2.96E-02	1.83E-03	2.01E-03	5.13E-03	4.47E-02
1.22E-03	4.89E-03	2.87E-02	1.75E-03	4.99E-03	4.99E-03	4.65E-02	1.22E-03	4.89E-03	2.87E-02	1.75E-03	1.91E-03	4.99E-03	4.34E-02
1.05E-03	4.75E-03	2.58E-02	1.47E-03	4.71E-03	4.71E-03	4.25E-02	1.05E-03	4.75E-03	2.58E-02	1.47E-03	1.67E-03	4.71E-03	3.95E-02
1.02E-03	4.73E-03	2.51E-02	1.42E-03	4.60E-03	4.60E-03	4.15E-02	1.02E-03	4.73E-03	2.51E-02	1.42E-03	1.60E-03	4.60E-03	3.85E-02
9.94E-04	4.71E-03	2.45E-02	1.37E-03	4.50E-03	4.50E-03	4.06E-02	9.94E-04	4.71E-03	2.45E-02	1.37E-03	1.54E-03	4.50E-03	3.76E-02
9.72E-04	4.70E-03	2.40E-02	1.33E-03	4.43E-03	4.43E-03	3.99E-02	9.72E-04	4.70E-03	2.40E-02	1.33E-03	1.50E-03	4.43E-03	3.70E-02
1.08E-03	4.69E-03	2.70E-02	1.54E-03	5.01E-03	5.01E-03	4.43E-02	1.08E-03	4.69E-03	2.70E-02	1.54E-03	1.81E-03	5.01E-03	4.11E-02
1.05E-03	4.68E-03	2.63E-02	1.48E-03	4.90E-03	4.90E-03	4.34E-02	1.05E-03	4.68E-03	2.63E-02	1.48E-03	1.74E-03	4.90E-03	4.02E-02
1.02E-03	4.66E-03	2.57E-02	1.43E-03	4.79E-03	4.79E-03	4.24E-02	1.02E-03	4.66E-03	2.57E-02	1.43E-03	1.67E-03	4.79E-03	3.92E-02
9.95E-04	4.64E-03	2.50E-02	1.38E-03	4.69E-03	4.69E-03	4.14E-02	9.95E-04	4.64E-03	2.50E-02	1.38E-03	1.61E-03	4.69E-03	3.83E-02
1.12E-03	4.65E-03	2.83E-02	1.62E-03	5.34E-03	5.34E-03	4.64E-02	1.12E-03	4.65E-03	2.83E-02	1.62E-03	1.96E-03	5.34E-03	4.30E-02
1.08E-03	4.62E-03	2.74E-02	1.55E-03	5.19E-03	5.19E-03	4.50E-02	1.08E-03	4.62E-03	2.74E-02	1.55E-03	1.87E-03	5.19E-03	4.17E-02
1.05E-03	4.60E-03	2.67E-02	1.49E-03	5.08E-03	5.08E-03	4.40E-02	1.05E-03	4.60E-03	2.67E-02	1.49E-03	1.80E-03	5.08E-03	4.07E-02
1.02E-03	4.57E-03	2.58E-02	1.43E-03	4.93E-03	4.93E-03	4.27E-02	1.02E-03	4.57E-03	2.58E-02	1.43E-03	1.72E-03	4.93E-03	3.95E-02
1.15E-03	4.59E-03	2.95E-02	1.69E-03	5.67E-03	5.67E-03	4.83E-02	1.15E-03	4.59E-03	2.95E-02	1.69E-03	2.12E-03	5.67E-03	4.48E-02
1.11E-03	4.57E-03	2.86E-02	1.62E-03	5.52E-03	5.52E-03	4.70E-02	1.11E-03	4.57E-03	2.86E-02	1.62E-03	2.02E-03	5.52E-03	4.35E-02
1.08E-03	4.55E-03	2.78E-02	1.56E-03	5.38E-03	5.38E-03	4.58E-02	1.08E-03	4.55E-03	2.78E-02	1.56E-03	1.94E-03	5.38E-03	4.23E-02
1.05E-03	4.54E-03	2.72E-02	1.51E-03	5.27E-03	5.27E-03	4.48E-02	1.05E-03	4.54E-03	2.72E-02	1.51E-03	1.87E-03	5.27E-03	4.14E-02
1.19E-03	4.54E-03	3.09E-02	1.77E-03	6.02E-03	6.02E-03	5.04E-02	1.19E-03	4.54E-03	3.09E-02	1.77E-03	2.28E-03	6.02E-03	4.67E-02
1.15E-03	4.52E-03	3.00E-02	1.70E-03	5.86E-03	5.86E-03	4.91E-02	1.15E-03	4.52E-03	3.00E-02	1.70E-03	2.18E-03	5.86E-03	4.54E-02
1.11E-03	4.50E-03	2.91E-02	1.63E-03	5.71E-03	5.71E-03	4.77E-02	1.11E-03	4.50E-03	2.91E-02	1.63E-03	2.08E-03	5.71E-03	4.41E-02
1.08E-03	4.48E-03	2.83E-02	1.58E-03	5.57E-03	5.57E-03	4.66E-02	1.08E-03	4.48E-03	2.83E-02	1.58E-03	2.00E-03	5.57E-03	4.30E-02
1.23E-03	4.50E-03	3.24E-02	1.87E-03	6.42E-03	6.42E-03	5.29E-02	1.23E-03	4.50E-03	3.24E-02	1.87E-03	2.47E-03	6.42E-03	4.89E-02
1.18E-03	4.47E-03	3.12E-02	1.78E-03	6.20E-03	6.20E-03	5.10E-02	1.18E-03	4.47E-03	3.12E-02	1.78E-03	2.33E-03	6.20E-03	4.72E-02
1.14E-03	4.43E-03	3.00E-02	1.69E-03	5.98E-03	5.98E-03	4.92E-02	1.14E-03	4.43E-03	3.00E-02	1.69E-03	2.20E-03	5.98E-03	4.55E-02
1.11E-03	4.43E-03	2.95E-02	1.65E-03	5.89E-03	5.89E-03	4.84E-02	1.11E-03	4.43E-03	2.95E-02	1.65E-03	2.14E-03	5.89E-03	4.47E-02
1.09E-03	4.45E-03	2.92E-02	1.61E-03	5.84E-03	5.84E-03	4.80E-02	1.09E-03	4.45E-03	2.92E-02	1.61E-03	2.10E-03	5.84E-03	4.43E-02
1.07E-03	4.47E-03	2.90E-02	1.59E-03	5.81E-03	5.81E-03	4.78E-02	1.07E-03	4.47E-03	2.90E-02	1.59E-03	2.06E-03	5.81E-03	4.40E-02
1.28E-03	4.46E-03	3.38E-02	1.96E-03	6.81E-03	6.81E-03	5.52E-02	1.28E-03	4.46E-03	3.38E-02	1.96E-03	2.64E-03	6.81E-03	5.10E-02
1.22E-03	4.41E-03	3.23E-02	1.86E-03	6.52E-03	6.52E-03	5.29E-02	1.22E-03	4.41E-03	3.23E-02	1.86E-03	2.48E-03	6.52E-03	4.88E-02
1.18E-03	4.39E-03	3.13E-02	1.78E-03	6.33E-03	6.33E-03	5.13E-02	1.18E-03	4.39E-03	3.13E-02	1.78E-03	2.36E-03	6.33E-03	4.73E-02
1.15E-03	4.40E-03	3.09E-02	1.73E-03	6.25E-03	6.25E-03	5.07E-02	1.15E-03	4.40E-03	3.09E-02	1.73E-03	2.30E-03	6.25E-03	4.67E-02
1.12E-03	4.40E-03	3.03E-02	1.68E-03	6.14E-03	6.14E-03	4.98E-02	1.12E-03	4.40E-03	3.03E-02	1.68E-03	2.23E-03	6.14E-03	4.59E-02
1.11E-03	4.43E-03	3.03E-02	1.66E-03	6.14E-03	6.14E-03	4.98E-02	1.11E-03	4.43E-03	3.03E-02	1.66E-03	2.21E-03	6.14E-03	4.58E-02
1.33E-03	4.42E-03	3.54E-02	2.07E-03	7.23E-03	7.23E-03	5.76E-02	1.33E-03	4.42E-03	3.54E-02	2.07E-03	2.84E-03	7.23E-03	5.32E-02
1.26E-03	4.35E-03	3.34E-02	1.93E-03	6.84E-03	6.84E-03	5.46E-02	1.26E-03	4.35E-03	3.34E-02	1.93E-03	2.62E-03	6.84E-03	5.04E-02

1.22E-03	4.36E-03	3.29E-02	1.88E-03	6.74E-03	6.74E-03	5.38E-02	1.22E-03	4.36E-03	3.29E-02	1.88E-03	2.55E-03	6.74E-03	4.96E-02
1.20E-03	4.37E-03	3.25E-02	1.83E-03	6.66E-03	6.66E-03	5.32E-02	1.20E-03	4.37E-03	3.25E-02	1.83E-03	2.48E-03	6.66E-03	4.90E-02
1.17E-03	4.37E-03	3.19E-02	1.78E-03	6.55E-03	6.55E-03	5.23E-02	1.17E-03	4.37E-03	3.19E-02	1.78E-03	2.41E-03	6.55E-03	4.82E-02
1.14E-03	4.38E-03	3.15E-02	1.74E-03	6.47E-03	6.47E-03	5.17E-02	1.14E-03	4.38E-03	3.15E-02	1.74E-03	2.35E-03	6.47E-03	4.76E-02
1.38E-03	4.37E-03	3.65E-02	2.16E-03	7.59E-03	7.59E-03	5.96E-02	1.38E-03	4.37E-03	3.65E-02	2.16E-03	3.01E-03	7.59E-03	5.51E-02
1.31E-03	4.32E-03	3.49E-02	2.04E-03	7.25E-03	7.25E-03	5.71E-02	1.31E-03	4.32E-03	3.49E-02	2.04E-03	2.81E-03	7.25E-03	5.26E-02
1.27E-03	4.33E-03	3.44E-02	1.98E-03	7.14E-03	7.14E-03	5.62E-02	1.27E-03	4.33E-03	3.44E-02	1.98E-03	2.73E-03	7.14E-03	5.18E-02
1.24E-03	4.33E-03	3.39E-02	1.93E-03	7.04E-03	7.04E-03	5.55E-02	1.24E-03	4.33E-03	3.39E-02	1.93E-03	2.66E-03	7.04E-03	5.11E-02
1.21E-03	4.34E-03	3.34E-02	1.88E-03	6.95E-03	6.95E-03	5.48E-02	1.21E-03	4.34E-03	3.34E-02	1.88E-03	2.58E-03	6.95E-03	5.04E-02
1.18E-03	4.35E-03	3.29E-02	1.83E-03	6.85E-03	6.85E-03	5.40E-02	1.18E-03	4.35E-03	3.29E-02	1.83E-03	2.51E-03	6.85E-03	4.96E-02
1.42E-03	4.30E-03	3.73E-02	2.23E-03	7.87E-03	7.87E-03	6.10E-02	1.42E-03	4.30E-03	3.73E-02	2.23E-03	3.14E-03	7.87E-03	5.63E-02
1.37E-03	4.30E-03	3.66E-02	2.16E-03	7.72E-03	7.72E-03	5.99E-02	1.37E-03	4.30E-03	3.66E-02	2.16E-03	3.03E-03	7.72E-03	5.52E-02
1.33E-03	4.30E-03	3.59E-02	2.09E-03	7.57E-03	7.57E-03	5.88E-02	1.33E-03	4.30E-03	3.59E-02	2.09E-03	2.92E-03	7.57E-03	5.41E-02
1.29E-03	4.30E-03	3.54E-02	2.03E-03	7.45E-03	7.45E-03	5.79E-02	1.29E-03	4.30E-03	3.54E-02	2.03E-03	2.84E-03	7.45E-03	5.33E-02
1.26E-03	4.31E-03	3.49E-02	1.98E-03	7.34E-03	7.34E-03	5.71E-02	1.26E-03	4.31E-03	3.49E-02	1.98E-03	2.76E-03	7.34E-03	5.25E-02
1.23E-03	4.32E-03	3.45E-02	1.93E-03	7.26E-03	7.26E-03	5.65E-02	1.23E-03	4.32E-03	3.45E-02	1.93E-03	2.69E-03	7.26E-03	5.19E-02
1.49E-03	4.27E-03	3.88E-02	2.36E-03	8.30E-03	8.30E-03	6.35E-02	1.49E-03	4.27E-03	3.88E-02	2.36E-03	3.35E-03	8.30E-03	5.86E-02
1.44E-03	4.28E-03	3.84E-02	2.30E-03	8.21E-03	8.21E-03	6.29E-02	1.44E-03	4.28E-03	3.84E-02	2.30E-03	3.27E-03	8.21E-03	5.79E-02
1.39E-03	4.27E-03	3.76E-02	2.21E-03	8.01E-03	8.01E-03	6.15E-02	1.39E-03	4.27E-03	3.76E-02	2.21E-03	3.13E-03	8.01E-03	5.66E-02
1.35E-03	4.28E-03	3.71E-02	2.16E-03	7.90E-03	7.90E-03	6.07E-02	1.35E-03	4.28E-03	3.71E-02	2.16E-03	3.05E-03	7.90E-03	5.59E-02
1.31E-03	4.28E-03	3.64E-02	2.09E-03	7.75E-03	7.75E-03	5.96E-02	1.31E-03	4.28E-03	3.64E-02	2.09E-03	2.94E-03	7.75E-03	5.48E-02
1.28E-03	4.29E-03	3.61E-02	2.04E-03	7.67E-03	7.67E-03	5.90E-02	1.28E-03	4.29E-03	3.61E-02	2.04E-03	2.87E-03	7.67E-03	5.42E-02
1.58E-03	4.26E-03	4.07E-02	2.52E-03	8.83E-03	8.83E-03	6.67E-02	1.58E-03	4.26E-03	4.07E-02	2.52E-03	3.62E-03	8.83E-03	6.15E-02
1.52E-03	4.26E-03	4.00E-02	2.43E-03	8.66E-03	8.66E-03	6.55E-02	1.52E-03	4.26E-03	4.00E-02	2.43E-03	3.49E-03	8.66E-03	6.04E-02
1.46E-03	4.25E-03	3.93E-02	2.35E-03	8.48E-03	8.48E-03	6.43E-02	1.46E-03	4.25E-03	3.93E-02	2.35E-03	3.36E-03	8.48E-03	5.92E-02
1.42E-03	4.25E-03	3.88E-02	2.28E-03	8.35E-03	8.35E-03	6.34E-02	1.42E-03	4.25E-03	3.88E-02	2.28E-03	3.26E-03	8.35E-03	5.83E-02
1.37E-03	4.25E-03	3.81E-02	2.21E-03	8.20E-03	8.20E-03	6.23E-02	1.37E-03	4.25E-03	3.81E-02	2.21E-03	3.15E-03	8.20E-03	5.73E-02
1.33E-03	4.26E-03	3.76E-02	2.15E-03	8.07E-03	8.07E-03	6.14E-02	1.33E-03	4.26E-03	3.76E-02	2.15E-03	3.05E-03	8.07E-03	5.64E-02
1.67E-03	4.25E-03	4.25E-02	2.69E-03	9.37E-03	9.37E-03	6.99E-02	1.67E-03	4.25E-03	4.25E-02	2.69E-03	3.89E-03	9.37E-03	6.44E-02
1.61E-03	4.25E-03	4.19E-02	2.60E-03	9.20E-03	9.20E-03	6.88E-02	1.61E-03	4.25E-03	4.19E-02	2.60E-03	3.76E-03	9.20E-03	6.34E-02
1.54E-03	4.23E-03	4.11E-02	2.50E-03	8.98E-03	8.98E-03	6.73E-02	1.54E-03	4.23E-03	4.11E-02	2.50E-03	3.60E-03	8.98E-03	6.19E-02
1.49E-03	4.23E-03	4.06E-02	2.43E-03	8.84E-03	8.84E-03	6.64E-02	1.49E-03	4.23E-03	4.06E-02	2.43E-03	3.49E-03	8.84E-03	6.10E-02
1.44E-03	4.23E-03	3.98E-02	2.34E-03	8.65E-03	8.65E-03	6.51E-02	1.44E-03	4.23E-03	3.98E-02	2.34E-03	3.36E-03	8.65E-03	5.98E-02
1.40E-03	4.24E-03	3.93E-02	2.28E-03	8.54E-03	8.54E-03	6.43E-02	1.40E-03	4.24E-03	3.93E-02	2.28E-03	3.27E-03	8.54E-03	5.91E-02
1.79E-03	4.25E-03	4.47E-02	2.91E-03	9.99E-03	9.99E-03	7.36E-02	1.79E-03	4.25E-03	4.47E-02	2.91E-03	4.23E-03	9.99E-03	6.79E-02
1.70E-03	4.24E-03	4.38E-02	2.79E-03	9.75E-03	9.75E-03	7.21E-02	1.70E-03	4.24E-03	4.38E-02	2.79E-03	4.05E-03	9.75E-03	6.64E-02
1.63E-03	4.22E-03	4.30E-02	2.68E-03	9.52E-03	9.52E-03	7.05E-02	1.63E-03	4.22E-03	4.30E-02	2.68E-03	3.88E-03	9.52E-03	6.49E-02
1.57E-03	4.22E-03	4.23E-02	2.59E-03	9.34E-03	9.34E-03	6.94E-02	1.57E-03	4.22E-03	4.23E-02	2.59E-03	3.74E-03	9.34E-03	6.38E-02
1.51E-03	4.21E-03	4.16E-02	2.50E-03	9.14E-03	9.14E-03	6.81E-02	1.51E-03	4.21E-03	4.16E-02	2.50E-03	3.60E-03	9.14E-03	6.25E-02
1.46E-03	4.21E-03	4.10E-02	2.42E-03	8.99E-03	8.99E-03	6.71E-02	1.46E-03	4.21E-03	4.10E-02	2.42E-03	3.48E-03	8.99E-03	6.16E-02
1.91E-03	4.24E-03	4.68E-02	3.15E-03	1.06E-02	1.06E-02	7.73E-02	1.91E-03	4.24E-03	4.68E-02	3.15E-03	4.57E-03	1.06E-02	7.13E-02
1.82E-03	4.22E-03	4.57E-02	3.00E-03	1.03E-02	1.03E-02	7.53E-02	1.82E-03	4.22E-03	4.57E-02	3.00E-03	4.35E-03	1.03E-02	6.94E-02
1.74E-03	4.22E-03	4.50E-02	2.88E-03	1.01E-02	1.01E-02	7.40E-02	1.74E-03	4.22E-03	4.50E-02	2.88E-03	4.17E-03	1.01E-02	6.80E-02
1.66E-03	4.21E-03	4.42E-02	2.77E-03	9.86E-03	9.86E-03	7.25E-02	1.66E-03	4.21E-03	4.42E-02	2.77E-03	4.01E-03	9.86E-03	6.67E-02
1.60E-03	4.20E-03	4.34E-02	2.67E-03	9.65E-03	9.65E-03	7.12E-02	1.60E-03	4.20E-03	4.34E-02	2.67E-03	3.85E-03	9.65E-03	6.54E-02
1.55E-03	4.21E-03	4.30E-02	2.59E-03	9.52E-03	9.52E-03	7.04E-02	1.55E-03	4.21E-03	4.30E-02	2.59E-03	3.74E-03	9.52E-03	6.46E-02
2.08E-03	4.24E-03	4.92E-02	3.46E-03	1.13E-02	1.13E-02	8.16E-02	2.08E-03	4.24E-03	4.92E-02	3.46E-03	4.98E-03	1.13E-02	7.53E-02
1.95E-03	4.22E-03	4.78E-02	3.26E-03	1.09E-02	1.09E-02	7.91E-02	1.95E-03	4.22E-03	4.78E-02	3.26E-03	4.70E-03	1.09E-02	7.29E-02
1.86E-03	4.21E-03	4.70E-02	3.11E-03	1.07E-02	1.07E-02	7.75E-02	1.86E-03	4.21E-03	4.70E-02	3.11E-03	4.50E-03	1.07E-02	7.13E-02
1.78E-03	4.21E-03	4.64E-02	2.99E-03	1.05E-02	1.05E-02	7.63E-02	1.78E-03	4.21E-03	4.64E-02	2.99E-03	4.33E-03	1.05E-02	7.02E-02
1.70E-03	4.20E-03	4.55E-02	2.86E-03	1.02E-02	1.02E-02	7.46E-02	1.70E-03	4.20E-03	4.55E-02	2.86E-03	4.14E-03	1.02E-02	6.86E-02
1.64E-03	4.20E-03	4.50E-02	2.77E-03	1.01E-02	1.01E-02	7.37E-02	1.64E-03	4.20E-03	4.50E-02	2.77E-03	4.00E-03	1.01E-02	6.77E-02
2.27E-03	4.24E-03	5.15E-02	3.82E-03	1.21E-02	1.21E-02	8.60E-02	2.27E-03	4.24E-03	5.15E-02	3.82E-03	5.43E-03	1.21E-02	7.93E-02
2.13E-03	4.23E-03	5.03E-02	3.59E-03	1.17E-02	1.17E-02	8.36E-02	2.13E-03	4.23E-03	5.03E-02	3.59E-03	5.13E-03	1.17E-02	7.71E-02

2.00E-03	4.21E-03	4.93E-02	3.39E-03	1.14E-02	1.14E-02	8.16E-02	2.00E-03	4.21E-03	4.93E-02	3.39E-03	4.87E-03	1.14E-02	7.51E-02
1.90E-03	4.20E-03	4.84E-02	3.23E-03	1.11E-02	1.11E-02	7.99E-02	1.90E-03	4.20E-03	4.84E-02	3.23E-03	4.65E-03	1.11E-02	7.35E-02
1.81E-03	4.20E-03	4.77E-02	3.09E-03	1.08E-02	1.08E-02	7.85E-02	1.81E-03	4.20E-03	4.77E-02	3.09E-03	4.47E-03	1.08E-02	7.22E-02
1.73E-03	4.19E-03	4.69E-02	2.96E-03	1.06E-02	1.06E-02	7.70E-02	1.73E-03	4.19E-03	4.69E-02	2.96E-03	4.28E-03	1.06E-02	7.07E-02
2.50E-03	4.24E-03	5.41E-02	4.27E-03	1.29E-02	1.29E-02	9.10E-02	2.50E-03	4.24E-03	5.41E-02	4.27E-03	5.98E-03	1.29E-02	8.40E-02
2.32E-03	4.22E-03	5.28E-02	3.96E-03	1.25E-02	1.25E-02	8.82E-02	2.32E-03	4.22E-03	5.28E-02	3.96E-03	5.60E-03	1.25E-02	8.13E-02
2.17E-03	4.22E-03	5.17E-02	3.72E-03	1.21E-02	1.21E-02	8.59E-02	2.17E-03	4.22E-03	5.17E-02	3.72E-03	5.30E-03	1.21E-02	7.92E-02
2.04E-03	4.21E-03	5.07E-02	3.51E-03	1.17E-02	1.17E-02	8.40E-02	2.04E-03	4.21E-03	5.07E-02	3.51E-03	5.04E-03	1.17E-02	7.72E-02
1.94E-03	4.20E-03	5.00E-02	3.34E-03	1.15E-02	1.15E-02	8.25E-02	1.94E-03	4.20E-03	5.00E-02	3.34E-03	4.82E-03	1.15E-02	7.58E-02
1.85E-03	4.19E-03	4.91E-02	3.18E-03	1.12E-02	1.12E-02	8.07E-02	1.85E-03	4.19E-03	4.91E-02	3.18E-03	4.60E-03	1.12E-02	7.41E-02
1.98E-03	4.20E-03	5.17E-02	3.44E-03	1.19E-02	1.19E-02	8.51E-02	1.98E-03	4.20E-03	5.17E-02	3.44E-03	4.98E-03	1.19E-02	7.82E-02
1.88E-03	4.20E-03	5.08E-02	3.26E-03	1.16E-02	1.16E-02	8.34E-02	1.88E-03	4.20E-03	5.08E-02	3.26E-03	4.75E-03	1.16E-02	7.65E-02
1.79E-03	4.19E-03	5.00E-02	3.11E-03	1.14E-02	1.14E-02	8.18E-02	1.79E-03	4.19E-03	5.00E-02	3.11E-03	4.54E-03	1.14E-02	7.49E-02
2.12E-03	4.20E-03	5.39E-02	3.72E-03	1.26E-02	1.26E-02	8.91E-02	2.12E-03	4.20E-03	5.39E-02	3.72E-03	5.37E-03	1.26E-02	8.19E-02
2.00E-03	4.20E-03	5.30E-02	3.51E-03	1.23E-02	1.23E-02	8.72E-02	2.00E-03	4.20E-03	5.30E-02	3.51E-03	5.11E-03	1.23E-02	8.01E-02
1.90E-03	4.19E-03	5.19E-02	3.32E-03	1.19E-02	1.19E-02	8.52E-02	1.90E-03	4.19E-03	5.19E-02	3.32E-03	4.85E-03	1.19E-02	7.81E-02
2.49E-03	4.29E-03	7.01E-02	4.47E-03	1.59E-02	1.59E-02	1.13E-01	2.49E-03	4.29E-03	7.01E-02	4.47E-03	6.79E-03	1.59E-02	1.04E-01
2.33E-03	4.29E-03	6.81E-02	4.09E-03	1.52E-02	1.52E-02	1.09E-01	2.33E-03	4.29E-03	6.81E-02	4.09E-03	6.23E-03	1.52E-02	1.00E-01
2.19E-03	4.28E-03	6.62E-02	3.77E-03	1.46E-02	1.46E-02	1.06E-01	2.19E-03	4.28E-03	6.62E-02	3.77E-03	5.74E-03	1.46E-02	9.68E-02
2.07E-03	4.27E-03	6.44E-02	3.50E-03	1.40E-02	1.40E-02	1.02E-01	2.07E-03	4.27E-03	6.44E-02	3.50E-03	5.32E-03	1.40E-02	9.36E-02
2.72E-03	4.31E-03	7.35E-02	4.76E-03	1.67E-02	1.67E-02	1.19E-01	2.72E-03	4.31E-03	7.35E-02	4.76E-03	7.32E-03	1.67E-02	1.09E-01
2.52E-03	4.31E-03	7.13E-02	4.27E-03	1.58E-02	1.58E-02	1.14E-01	2.52E-03	4.31E-03	7.13E-02	4.27E-03	6.61E-03	1.58E-02	1.05E-01
2.35E-03	4.31E-03	6.93E-02	3.89E-03	1.51E-02	1.51E-02	1.10E-01	2.35E-03	4.31E-03	6.93E-02	3.89E-03	6.00E-03	1.51E-02	1.01E-01
2.21E-03	4.30E-03	6.73E-02	3.58E-03	1.44E-02	1.44E-02	1.06E-01	2.21E-03	4.30E-03	6.73E-02	3.58E-03	5.48E-03	1.44E-02	9.73E-02
3.00E-03	4.33E-03	7.72E-02	4.78E-03	1.74E-02	1.74E-02	1.24E-01	3.00E-03	4.33E-03	7.72E-02	4.78E-03	7.78E-03	1.74E-02	1.15E-01
2.74E-03	4.34E-03	7.49E-02	4.27E-03	1.63E-02	1.63E-02	1.19E-01	2.74E-03	4.34E-03	7.49E-02	4.27E-03	6.84E-03	1.63E-02	1.09E-01
2.54E-03	4.34E-03	7.25E-02	3.90E-03	1.54E-02	1.54E-02	1.14E-01	2.54E-03	4.34E-03	7.25E-02	3.90E-03	6.10E-03	1.54E-02	1.05E-01
2.37E-03	4.34E-03	7.04E-02	3.60E-03	1.47E-02	1.47E-02	1.10E-01	2.37E-03	4.34E-03	7.04E-02	3.60E-03	5.50E-03	1.47E-02	1.01E-01
3.35E-03	4.34E-03	8.13E-02	4.56E-03	1.76E-02	1.76E-02	1.29E-01	3.35E-03	4.34E-03	8.13E-02	4.56E-03	7.76E-03	1.76E-02	1.19E-01
3.03E-03	4.36E-03	7.86E-02	4.17E-03	1.64E-02	1.64E-02	1.23E-01	3.03E-03	4.36E-03	7.86E-02	4.17E-03	6.69E-03	1.64E-02	1.13E-01
2.77E-03	4.37E-03	7.62E-02	3.85E-03	1.54E-02	1.54E-02	1.18E-01	2.77E-03	4.37E-03	7.62E-02	3.85E-03	5.89E-03	1.54E-02	1.08E-01
2.56E-03	4.38E-03	7.38E-02	3.59E-03	1.47E-02	1.47E-02	1.14E-01	2.56E-03	4.38E-03	7.38E-02	3.59E-03	5.27E-03	1.47E-02	1.04E-01
1.91E-03	4.27E-03	6.19E-02	3.17E-03	1.34E-02	1.34E-02	9.79E-02	1.91E-03	4.27E-03	6.19E-02	3.17E-03	4.79E-03	1.34E-02	8.93E-02
1.83E-03	4.26E-03	6.04E-02	2.98E-03	1.29E-02	1.29E-02	9.53E-02	1.83E-03	4.26E-03	6.04E-02	2.98E-03	4.47E-03	1.29E-02	8.68E-02
1.75E-03	4.26E-03	5.89E-02	2.82E-03	1.25E-02	1.25E-02	9.28E-02	1.75E-03	4.26E-03	5.89E-02	2.82E-03	4.19E-03	1.25E-02	8.45E-02
2.02E-03	4.29E-03	6.45E-02	3.24E-03	1.37E-02	1.37E-02	1.01E-01	2.02E-03	4.29E-03	6.45E-02	3.24E-03	4.88E-03	1.37E-02	9.26E-02
1.93E-03	4.29E-03	6.27E-02	3.04E-03	1.32E-02	1.32E-02	9.83E-02	1.93E-03	4.29E-03	6.27E-02	3.04E-03	4.53E-03	1.32E-02	8.97E-02
1.84E-03	4.29E-03	6.12E-02	2.87E-03	1.28E-02	1.28E-02	9.57E-02	1.84E-03	4.29E-03	6.12E-02	2.87E-03	4.21E-03	1.28E-02	8.72E-02
1.76E-03	4.29E-03	5.97E-02	2.72E-03	1.24E-02	1.24E-02	9.32E-02	1.76E-03	4.29E-03	5.97E-02	2.72E-03	3.94E-03	1.24E-02	8.48E-02
1.69E-03	4.29E-03	5.82E-02	2.59E-03	1.20E-02	1.20E-02	9.08E-02	1.69E-03	4.29E-03	5.82E-02	2.59E-03	3.69E-03	1.20E-02	8.25E-02
1.63E-03	4.30E-03	5.69E-02	2.47E-03	1.17E-02	1.17E-02	8.87E-02	1.63E-03	4.30E-03	5.69E-02	2.47E-03	3.47E-03	1.17E-02	8.05E-02
1.58E-03	4.31E-03	5.56E-02	2.37E-03	1.15E-02	1.15E-02	8.68E-02	1.58E-03	4.31E-03	5.56E-02	2.37E-03	3.27E-03	1.15E-02	7.86E-02
1.52E-03	4.32E-03	5.44E-02	2.27E-03	1.12E-02	1.12E-02	8.49E-02	1.52E-03	4.32E-03	5.44E-02	2.27E-03	3.10E-03	1.12E-02	7.68E-02
2.15E-03	4.32E-03	6.72E-02	3.27E-03	1.38E-02	1.38E-02	1.05E-01	2.15E-03	4.32E-03	6.72E-02	3.27E-03	4.86E-03	1.38E-02	9.56E-02
2.04E-03	4.32E-03	6.54E-02	3.07E-03	1.33E-02	1.33E-02	1.01E-01	2.04E-03	4.32E-03	6.54E-02	3.07E-03	4.47E-03	1.33E-02	9.26E-02
1.94E-03	4.32E-03	6.37E-02	2.90E-03	1.29E-02	1.29E-02	9.86E-02	1.94E-03	4.32E-03	6.37E-02	2.90E-03	4.14E-03	1.29E-02	8.99E-02
1.85E-03	4.32E-03	6.20E-02	2.76E-03	1.25E-02	1.25E-02	9.59E-02	1.85E-03	4.32E-03	6.20E-02	2.76E-03	3.85E-03	1.25E-02	8.73E-02
1.77E-03	4.32E-03	6.04E-02	2.63E-03	1.21E-02	1.21E-02	9.33E-02	1.77E-03	4.32E-03	6.04E-02	2.63E-03	3.61E-03	1.21E-02	8.48E-02
1.71E-03	4.32E-03	5.89E-02	2.51E-03	1.18E-02	1.18E-02	9.11E-02	1.71E-03	4.32E-03	5.89E-02	2.51E-03	3.38E-03	1.18E-02	8.27E-02
1.64E-03	4.32E-03	5.73E-02	2.40E-03	1.15E-02	1.15E-02	8.87E-02	1.64E-03	4.32E-03	5.73E-02	2.40E-03	3.19E-03	1.15E-02	8.04E-02
1.59E-03	4.35E-03	5.63E-02	2.30E-03	1.13E-02	1.13E-02	8.71E-02	1.59E-03	4.35E-03	5.63E-02	2.30E-03	3.00E-03	1.13E-02	7.88E-02
2.30E-03	4.37E-03	7.03E-02	3.28E-03	1.38E-02	1.38E-02	1.08E-01	2.30E-03	4.37E-03	7.03E-02	3.28E-03	4.67E-03	1.38E-02	9.87E-02
2.17E-03	4.36E-03	6.82E-02	3.10E-03	1.33E-02	1.33E-02	1.05E-01	2.17E-03	4.36E-03	6.82E-02	3.10E-03	4.28E-03	1.33E-02	9.55E-02
2.06E-03	4.36E-03	6.63E-02	2.93E-03	1.29E-02	1.29E-02	1.01E-01	2.06E-03	4.36E-03	6.63E-02	2.93E-03	3.96E-03	1.29E-02	9.25E-02

1.96E-03	4.36E-03	6.45E-02	2.79E-03	1.25E-02	1.25E-02	9.86E-02	1.96E-03	4.36E-03	6.45E-02	2.79E-03	3.68E-03	1.25E-02	8.98E-02
1.87E-03	4.35E-03	6.27E-02	2.66E-03	1.21E-02	1.21E-02	9.58E-02	1.87E-03	4.35E-03	6.27E-02	2.66E-03	3.44E-03	1.21E-02	8.71E-02
1.79E-03	4.35E-03	6.11E-02	2.54E-03	1.18E-02	1.18E-02	9.34E-02	1.79E-03	4.35E-03	6.11E-02	2.54E-03	3.23E-03	1.18E-02	8.48E-02
1.72E-03	4.37E-03	5.96E-02	2.43E-03	1.16E-02	1.16E-02	9.13E-02	1.72E-03	4.37E-03	5.96E-02	2.43E-03	3.03E-03	1.16E-02	8.27E-02
1.66E-03	4.38E-03	5.82E-02	2.33E-03	1.13E-02	1.13E-02	8.92E-02	1.66E-03	4.38E-03	5.82E-02	2.33E-03	2.87E-03	1.13E-02	8.07E-02
2.48E-03	4.41E-03	7.35E-02	3.32E-03	1.36E-02	1.36E-02	1.11E-01	2.48E-03	4.41E-03	7.35E-02	3.32E-03	4.29E-03	1.36E-02	1.02E-01
2.32E-03	4.40E-03	7.12E-02	3.14E-03	1.32E-02	1.32E-02	1.07E-01	2.32E-03	4.40E-03	7.12E-02	3.14E-03	3.95E-03	1.32E-02	9.82E-02
2.19E-03	4.40E-03	6.91E-02	2.98E-03	1.28E-02	1.28E-02	1.04E-01	2.19E-03	4.40E-03	6.91E-02	2.98E-03	3.66E-03	1.28E-02	9.51E-02
2.07E-03	4.40E-03	6.71E-02	2.83E-03	1.24E-02	1.24E-02	1.01E-01	2.07E-03	4.40E-03	6.71E-02	2.83E-03	3.42E-03	1.24E-02	9.22E-02
1.97E-03	4.39E-03	6.52E-02	2.71E-03	1.21E-02	1.21E-02	9.84E-02	1.97E-03	4.39E-03	6.52E-02	2.71E-03	3.20E-03	1.21E-02	8.95E-02
1.88E-03	4.39E-03	6.34E-02	2.58E-03	1.18E-02	1.18E-02	9.58E-02	1.88E-03	4.39E-03	6.34E-02	2.58E-03	3.01E-03	1.18E-02	8.71E-02
1.80E-03	4.40E-03	6.18E-02	2.47E-03	1.15E-02	1.15E-02	9.35E-02	1.80E-03	4.40E-03	6.18E-02	2.47E-03	2.84E-03	1.15E-02	8.48E-02
1.73E-03	4.40E-03	6.01E-02	2.37E-03	1.13E-02	1.13E-02	9.12E-02	1.73E-03	4.40E-03	6.01E-02	2.37E-03	2.69E-03	1.13E-02	8.26E-02
2.70E-03	4.45E-03	7.70E-02	3.43E-03	1.33E-02	1.33E-02	1.14E-01	2.70E-03	4.45E-03	7.70E-02	3.43E-03	3.79E-03	1.33E-02	1.05E-01
2.50E-03	4.45E-03	7.44E-02	3.24E-03	1.29E-02	1.29E-02	1.10E-01	2.50E-03	4.45E-03	7.44E-02	3.24E-03	3.53E-03	1.29E-02	1.01E-01
2.34E-03	4.44E-03	7.20E-02	3.07E-03	1.25E-02	1.25E-02	1.07E-01	2.34E-03	4.44E-03	7.20E-02	3.07E-03	3.30E-03	1.25E-02	9.77E-02
2.21E-03	4.44E-03	6.98E-02	2.91E-03	1.22E-02	1.22E-02	1.04E-01	2.21E-03	4.44E-03	6.98E-02	2.91E-03	3.09E-03	1.22E-02	9.47E-02
2.09E-03	4.44E-03	6.78E-02	2.77E-03	1.19E-02	1.19E-02	1.01E-01	2.09E-03	4.44E-03	6.78E-02	2.77E-03	2.91E-03	1.19E-02	9.20E-02
1.98E-03	4.43E-03	6.58E-02	2.65E-03	1.17E-02	1.17E-02	9.82E-02	1.98E-03	4.43E-03	6.58E-02	2.65E-03	2.76E-03	1.17E-02	8.93E-02
1.90E-03	4.44E-03	6.41E-02	2.53E-03	1.15E-02	1.15E-02	9.59E-02	1.90E-03	4.44E-03	6.41E-02	2.53E-03	2.61E-03	1.15E-02	8.70E-02
1.82E-03	4.44E-03	6.23E-02	2.42E-03	1.12E-02	1.12E-02	9.35E-02	1.82E-03	4.44E-03	6.23E-02	2.42E-03	2.48E-03	1.12E-02	8.47E-02
1.07E-03	4.21E-03	3.90E-02	1.63E-03	8.73E-03	8.73E-03	6.34E-02	1.07E-03	4.21E-03	3.90E-02	1.63E-03	2.35E-03	8.73E-03	5.70E-02
1.05E-03	4.19E-03	3.83E-02	1.59E-03	8.57E-03	8.57E-03	6.23E-02	1.05E-03	4.19E-03	3.83E-02	1.59E-03	2.27E-03	8.57E-03	5.60E-02
1.03E-03	4.19E-03	3.77E-02	1.55E-03	8.44E-03	8.44E-03	6.14E-02	1.03E-03	4.19E-03	3.77E-02	1.55E-03	2.21E-03	8.44E-03	5.52E-02
1.09E-03	4.22E-03	4.02E-02	1.66E-03	8.96E-03	8.96E-03	6.50E-02	1.09E-03	4.22E-03	4.02E-02	1.66E-03	2.39E-03	8.96E-03	5.85E-02
1.07E-03	4.20E-03	3.95E-02	1.62E-03	8.80E-03	8.80E-03	6.39E-02	1.07E-03	4.20E-03	3.95E-02	1.62E-03	2.32E-03	8.80E-03	5.75E-02
1.05E-03	4.19E-03	3.88E-02	1.58E-03	8.65E-03	8.65E-03	6.29E-02	1.05E-03	4.19E-03	3.88E-02	1.58E-03	2.24E-03	8.65E-03	5.65E-02
1.04E-03	4.18E-03	3.81E-02	1.54E-03	8.49E-03	8.49E-03	6.18E-02	1.04E-03	4.18E-03	3.81E-02	1.54E-03	2.17E-03	8.49E-03	5.55E-02
1.02E-03	4.19E-03	3.76E-02	1.50E-03	8.41E-03	8.41E-03	6.11E-02	1.02E-03	4.19E-03	3.76E-02	1.50E-03	2.11E-03	8.41E-03	5.48E-02
1.12E-03	4.23E-03	4.13E-02	1.70E-03	9.17E-03	9.17E-03	6.67E-02	1.12E-03	4.23E-03	4.13E-02	1.70E-03	2.43E-03	9.17E-03	5.99E-02
1.10E-03	4.21E-03	4.05E-02	1.65E-03	9.00E-03	9.00E-03	6.55E-02	1.10E-03	4.21E-03	4.05E-02	1.65E-03	2.35E-03	9.00E-03	5.88E-02
1.08E-03	4.20E-03	3.98E-02	1.61E-03	8.84E-03	8.84E-03	6.44E-02	1.08E-03	4.20E-03	3.98E-02	1.61E-03	2.27E-03	8.84E-03	5.78E-02
1.06E-03	4.20E-03	3.92E-02	1.56E-03	8.71E-03	8.71E-03	6.34E-02	1.06E-03	4.20E-03	3.92E-02	1.56E-03	2.20E-03	8.71E-03	5.69E-02
1.04E-03	4.19E-03	3.86E-02	1.52E-03	8.57E-03	8.57E-03	6.25E-02	1.04E-03	4.19E-03	3.86E-02	1.52E-03	2.13E-03	8.57E-03	5.60E-02
1.02E-03	4.18E-03	3.80E-02	1.49E-03	8.45E-03	8.45E-03	6.15E-02	1.02E-03	4.18E-03	3.80E-02	1.49E-03	2.06E-03	8.45E-03	5.52E-02
1.01E-03	4.17E-03	3.73E-02	1.45E-03	8.31E-03	8.31E-03	6.06E-02	1.01E-03	4.17E-03	3.73E-02	1.45E-03	2.00E-03	8.31E-03	5.43E-02
9.93E-04	4.17E-03	3.68E-02	1.41E-03	8.22E-03	8.22E-03	5.98E-02	9.93E-04	4.17E-03	3.68E-02	1.41E-03	1.94E-03	8.22E-03	5.35E-02
1.12E-03	4.23E-03	4.17E-02	1.68E-03	9.20E-03	9.20E-03	6.71E-02	1.12E-03	4.23E-03	4.17E-02	1.68E-03	2.37E-03	9.20E-03	6.03E-02
1.10E-03	4.22E-03	4.09E-02	1.64E-03	9.03E-03	9.03E-03	6.59E-02	1.10E-03	4.22E-03	4.09E-02	1.64E-03	2.29E-03	9.03E-03	5.92E-02
1.08E-03	4.21E-03	4.03E-02	1.59E-03	8.89E-03	8.89E-03	6.49E-02	1.08E-03	4.21E-03	4.03E-02	1.59E-03	2.21E-03	8.89E-03	5.82E-02
1.06E-03	4.20E-03	3.95E-02	1.55E-03	8.73E-03	8.73E-03	6.38E-02	1.06E-03	4.20E-03	3.95E-02	1.55E-03	2.14E-03	8.73E-03	5.72E-02
1.05E-03	4.20E-03	3.89E-02	1.51E-03	8.62E-03	8.62E-03	6.29E-02	1.05E-03	4.20E-03	3.89E-02	1.51E-03	2.07E-03	8.62E-03	5.64E-02
1.03E-03	4.19E-03	3.83E-02	1.47E-03	8.48E-03	8.48E-03	6.19E-02	1.03E-03	4.19E-03	3.83E-02	1.47E-03	2.00E-03	8.48E-03	5.55E-02
1.01E-03	4.17E-03	3.76E-02	1.44E-03	8.32E-03	8.32E-03	6.08E-02	1.01E-03	4.17E-03	3.76E-02	1.44E-03	1.94E-03	8.32E-03	5.45E-02
1.15E-03	4.26E-03	4.29E-02	1.71E-03	9.39E-03	9.39E-03	6.88E-02	1.15E-03	4.26E-03	4.29E-02	1.71E-03	2.38E-03	9.39E-03	6.18E-02
1.13E-03	4.24E-03	4.20E-02	1.66E-03	9.20E-03	9.20E-03	6.75E-02	1.13E-03	4.24E-03	4.20E-02	1.66E-03	2.30E-03	9.20E-03	6.06E-02
1.11E-03	4.24E-03	4.14E-02	1.62E-03	9.07E-03	9.07E-03	6.65E-02	1.11E-03	4.24E-03	4.14E-02	1.62E-03	2.21E-03	9.07E-03	5.96E-02
1.09E-03	4.22E-03	4.06E-02	1.57E-03	8.90E-03	8.90E-03	6.53E-02	1.09E-03	4.22E-03	4.06E-02	1.57E-03	2.14E-03	8.90E-03	5.85E-02
1.07E-03	4.20E-03	3.98E-02	1.53E-03	8.72E-03	8.72E-03	6.41E-02	1.07E-03	4.20E-03	3.98E-02	1.53E-03	2.07E-03	8.72E-03	5.74E-02
1.05E-03	4.20E-03	3.92E-02	1.49E-03	8.63E-03	8.63E-03	6.32E-02	1.05E-03	4.20E-03	3.92E-02	1.49E-03	2.00E-03	8.63E-03	5.66E-02
1.04E-03	4.21E-03	3.87E-02	1.45E-03	8.54E-03	8.54E-03	6.24E-02	1.04E-03	4.21E-03	3.87E-02	1.45E-03	1.93E-03	8.54E-03	5.58E-02
1.23E-03	4.30E-03	4.57E-02	1.85E-03	9.88E-03	9.88E-03	7.28E-02	1.23E-03	4.30E-03	4.57E-02	1.85E-03	2.58E-03	9.88E-03	6.55E-02
1.21E-03	4.29E-03	4.48E-02	1.79E-03	9.69E-03	9.69E-03	7.15E-02	1.21E-03	4.29E-03	4.48E-02	1.79E-03	2.47E-03	9.69E-03	6.43E-02
1.18E-03	4.28E-03	4.40E-02	1.74E-03	9.54E-03	9.54E-03	7.03E-02	1.18E-03	4.28E-03	4.40E-02	1.74E-03	2.38E-03	9.54E-03	6.32E-02

1.16E-03	4.27E-03	4.32E-02	1.69E-03	9.36E-03	9.36E-03	6.90E-02	1.16E-03	4.27E-03	4.32E-02	1.69E-03	2.29E-03	9.36E-03	6.20E-02
1.14E-03	4.26E-03	4.24E-02	1.64E-03	9.21E-03	9.21E-03	6.79E-02	1.14E-03	4.26E-03	4.24E-02	1.64E-03	2.20E-03	9.21E-03	6.09E-02
1.11E-03	4.25E-03	4.16E-02	1.60E-03	9.05E-03	9.05E-03	6.67E-02	1.11E-03	4.25E-03	4.16E-02	1.60E-03	2.13E-03	9.05E-03	5.98E-02
1.09E-03	4.23E-03	4.09E-02	1.55E-03	8.87E-03	8.87E-03	6.55E-02	1.09E-03	4.23E-03	4.09E-02	1.55E-03	2.05E-03	8.87E-03	5.87E-02
1.08E-03	4.23E-03	4.02E-02	1.51E-03	8.78E-03	8.78E-03	6.46E-02	1.08E-03	4.23E-03	4.02E-02	1.51E-03	1.98E-03	8.78E-03	5.78E-02
1.06E-03	4.23E-03	3.96E-02	1.47E-03	8.67E-03	8.67E-03	6.37E-02	1.06E-03	4.23E-03	3.96E-02	1.47E-03	1.91E-03	8.67E-03	5.69E-02
1.30E-03	4.32E-03	4.79E-02	1.94E-03	1.02E-02	1.02E-02	7.59E-02	1.30E-03	4.32E-03	4.79E-02	1.94E-03	2.68E-03	1.02E-02	6.84E-02
1.27E-03	4.32E-03	4.69E-02	1.88E-03	1.00E-02	1.00E-02	7.45E-02	1.27E-03	4.32E-03	4.69E-02	1.88E-03	2.56E-03	1.00E-02	6.70E-02
1.24E-03	4.31E-03	4.60E-02	1.82E-03	9.83E-03	9.83E-03	7.31E-02	1.24E-03	4.31E-03	4.60E-02	1.82E-03	2.46E-03	9.83E-03	6.57E-02
1.21E-03	4.30E-03	4.52E-02	1.76E-03	9.66E-03	9.66E-03	7.18E-02	1.21E-03	4.30E-03	4.52E-02	1.76E-03	2.36E-03	9.66E-03	6.45E-02
1.19E-03	4.30E-03	4.44E-02	1.71E-03	9.50E-03	9.50E-03	7.06E-02	1.19E-03	4.30E-03	4.44E-02	1.71E-03	2.27E-03	9.50E-03	6.33E-02
1.17E-03	4.29E-03	4.36E-02	1.66E-03	9.34E-03	9.34E-03	6.94E-02	1.17E-03	4.29E-03	4.36E-02	1.66E-03	2.18E-03	9.34E-03	6.22E-02
1.34E-03	4.34E-03	4.92E-02	1.97E-03	1.03E-02	1.03E-02	7.76E-02	1.34E-03	4.34E-03	4.92E-02	1.97E-03	2.65E-03	1.03E-02	6.99E-02
1.31E-03	4.35E-03	4.83E-02	1.91E-03	1.02E-02	1.02E-02	7.62E-02	1.31E-03	4.35E-03	4.83E-02	1.91E-03	2.53E-03	1.02E-02	6.86E-02
1.28E-03	4.34E-03	4.73E-02	1.85E-03	9.94E-03	9.94E-03	7.46E-02	1.28E-03	4.34E-03	4.73E-02	1.85E-03	2.42E-03	9.94E-03	6.71E-02
1.25E-03	4.34E-03	4.64E-02	1.79E-03	9.78E-03	9.78E-03	7.34E-02	1.25E-03	4.34E-03	4.64E-02	1.79E-03	2.32E-03	9.78E-03	6.59E-02
2.00E-03	6.37E-03	5.28E-02	1.24E-03	2.34E-02	2.34E-02	1.09E-01	2.00E-03	6.37E-03	5.28E-02	1.24E-03	6.70E-04	2.34E-02	8.65E-02
1.37E-03	5.91E-03	3.96E-02	9.83E-04	1.44E-02	1.44E-02	7.67E-02	1.37E-03	5.91E-03	3.96E-02	9.83E-04	6.12E-04	1.44E-02	6.29E-02
1.95E-03	6.21E-03	5.31E-02	1.27E-03	2.29E-02	2.29E-02	1.08E-01	1.95E-03	6.21E-03	5.31E-02	1.27E-03	6.91E-04	2.29E-02	8.61E-02
1.88E-03	6.22E-03	5.15E-02	1.23E-03	2.17E-02	2.17E-02	1.04E-01	1.88E-03	6.22E-03	5.15E-02	1.23E-03	6.77E-04	2.17E-02	8.32E-02
1.81E-03	6.25E-03	5.00E-02	1.20E-03	2.06E-02	2.06E-02	1.00E-01	1.81E-03	6.25E-03	5.00E-02	1.20E-03	6.64E-04	2.06E-02	8.05E-02
1.76E-03	6.30E-03	4.85E-02	1.16E-03	1.96E-02	1.96E-02	9.69E-02	1.76E-03	6.30E-03	4.85E-02	1.16E-03	6.50E-04	1.96E-02	7.79E-02
2.06E-03	6.44E-03	5.36E-02	1.24E-03	2.43E-02	2.43E-02	1.12E-01	2.06E-03	6.44E-03	5.36E-02	1.24E-03	6.70E-04	2.43E-02	8.83E-02
1.98E-03	6.50E-03	5.18E-02	1.20E-03	2.27E-02	2.27E-02	1.07E-01	1.98E-03	6.50E-03	5.18E-02	1.20E-03	6.50E-04	2.27E-02	8.49E-02
1.91E-03	6.47E-03	5.03E-02	1.17E-03	2.13E-02	2.13E-02	1.03E-01	1.91E-03	6.47E-03	5.03E-02	1.17E-03	6.36E-04	2.13E-02	8.18E-02
1.84E-03	6.54E-03	4.87E-02	1.13E-03	2.02E-02	2.02E-02	9.86E-02	1.84E-03	6.54E-03	4.87E-02	1.13E-03	6.21E-04	2.02E-02	7.91E-02
2.67E-03	6.62E-03	6.27E-02	1.39E-03	3.52E-02	3.52E-02	1.44E-01	2.67E-03	6.62E-03	6.27E-02	1.39E-03	7.65E-04	3.52E-02	1.09E-01
2.52E-03	6.65E-03	6.03E-02	1.34E-03	3.17E-02	3.17E-02	1.34E-01	2.52E-03	6.65E-03	6.03E-02	1.34E-03	7.21E-04	3.17E-02	1.03E-01
2.40E-03	6.67E-03	5.80E-02	1.30E-03	2.88E-02	2.88E-02	1.26E-01	2.40E-03	6.67E-03	5.80E-02	1.30E-03	6.85E-04	2.88E-02	9.79E-02
2.28E-03	6.69E-03	5.59E-02	1.25E-03	2.64E-02	2.64E-02	1.19E-01	2.28E-03	6.69E-03	5.59E-02	1.25E-03	6.56E-04	2.64E-02	9.32E-02
2.18E-03	6.70E-03	5.40E-02	1.21E-03	2.44E-02	2.44E-02	1.13E-01	2.18E-03	6.70E-03	5.40E-02	1.21E-03	6.33E-04	2.44E-02	8.91E-02
2.09E-03	6.73E-03	5.22E-02	1.18E-03	2.27E-02	2.27E-02	1.08E-01	2.09E-03	6.73E-03	5.22E-02	1.18E-03	6.14E-04	2.27E-02	8.55E-02
2.01E-03	6.76E-03	5.05E-02	1.14E-03	2.13E-02	2.13E-02	1.03E-01	2.01E-03	6.76E-03	5.05E-02	1.14E-03	5.98E-04	2.13E-02	8.23E-02
1.94E-03	6.78E-03	4.89E-02	1.11E-03	2.01E-02	2.01E-02	9.90E-02	1.94E-03	6.78E-03	4.89E-02	1.11E-03	5.84E-04	2.01E-02	7.95E-02
2.88E-03	6.89E-03	6.37E-02	1.36E-03	3.29E-02	3.29E-02	1.41E-01	2.88E-03	6.89E-03	6.37E-02	1.36E-03	6.98E-04	3.29E-02	1.08E-01
2.72E-03	6.93E-03	6.10E-02	1.31E-03	2.97E-02	2.97E-02	1.31E-01	2.72E-03	6.93E-03	6.10E-02	1.31E-03	6.57E-04	2.97E-02	1.02E-01
2.57E-03	6.95E-03	5.86E-02	1.27E-03	2.70E-02	2.70E-02	1.23E-01	2.57E-03	6.95E-03	5.86E-02	1.27E-03	6.25E-04	2.70E-02	9.71E-02
2.44E-03	6.97E-03	5.64E-02	1.23E-03	2.49E-02	2.49E-02	1.17E-01	2.44E-03	6.97E-03	5.64E-02	1.23E-03	5.99E-04	2.49E-02	9.25E-02
2.32E-03	6.97E-03	5.44E-02	1.19E-03	2.32E-02	2.32E-02	1.11E-01	2.32E-03	6.97E-03	5.44E-02	1.19E-03	5.80E-04	2.32E-02	8.86E-02
2.22E-03	6.99E-03	5.25E-02	1.16E-03	2.17E-02	2.17E-02	1.06E-01	2.22E-03	6.99E-03	5.25E-02	1.16E-03	5.65E-04	2.17E-02	8.52E-02
2.13E-03	7.02E-03	5.07E-02	1.12E-03	2.05E-02	2.05E-02	1.02E-01	2.13E-03	7.02E-03	5.07E-02	1.12E-03	5.52E-04	2.05E-02	8.20E-02
2.04E-03	7.04E-03	4.91E-02	1.09E-03	1.95E-02	1.95E-02	9.81E-02	2.04E-03	7.04E-03	4.91E-02	1.09E-03	5.42E-04	1.95E-02	7.92E-02
3.15E-03	7.19E-03	6.46E-02	1.35E-03	2.73E-02	2.73E-02	1.31E-01	3.15E-03	7.19E-03	6.46E-02	1.35E-03	5.91E-04	2.73E-02	1.04E-01
2.95E-03	7.23E-03	6.17E-02	1.30E-03	2.55E-02	2.55E-02	1.24E-01	2.95E-03	7.23E-03	6.17E-02	1.30E-03	5.67E-04	2.55E-02	9.92E-02
2.77E-03	7.25E-03	5.91E-02	1.26E-03	2.38E-02	2.38E-02	1.18E-01	2.77E-03	7.25E-03	5.91E-02	1.26E-03	5.48E-04	2.38E-02	9.48E-02
2.62E-03	7.27E-03	5.68E-02	1.22E-03	2.24E-02	2.24E-02	1.13E-01	2.62E-03	7.27E-03	5.68E-02	1.22E-03	5.32E-04	2.24E-02	9.08E-02
2.49E-03	7.28E-03	5.46E-02	1.18E-03	2.12E-02	2.12E-02	1.08E-01	2.49E-03	7.28E-03	5.46E-02	1.18E-03	5.20E-04	2.12E-02	8.73E-02
2.37E-03	7.30E-03	5.26E-02	1.14E-03	2.02E-02	2.02E-02	1.04E-01	2.37E-03	7.30E-03	5.26E-02	1.14E-03	5.10E-04	2.02E-02	8.41E-02
3.45E-03	7.48E-03	6.57E-02	1.35E-03	2.26E-02	2.26E-02	1.23E-01	3.45E-03	7.48E-03	6.57E-02	1.35E-03	4.99E-04	2.26E-02	1.01E-01
3.21E-03	7.54E-03	6.25E-02	1.30E-03	2.18E-02	2.18E-02	1.18E-01	3.21E-03	7.54E-03	6.25E-02	1.30E-03	4.89E-04	2.18E-02	9.68E-02
3.01E-03	7.58E-03	5.96E-02	1.26E-03	2.09E-02	2.09E-02	1.13E-01	3.01E-03	7.58E-03	5.96E-02	1.26E-03	4.79E-04	2.09E-02	9.29E-02
2.83E-03	7.60E-03	5.71E-02	1.22E-03	2.01E-02	2.01E-02	1.09E-01	2.83E-03	7.60E-03	5.71E-02	1.22E-03	4.71E-04	2.01E-02	8.94E-02
2.68E-03	7.62E-03	5.47E-02	1.18E-03	1.94E-02	1.94E-02	1.05E-01	2.68E-03	7.62E-03	5.47E-02	1.18E-03	4.64E-04	1.94E-02	8.60E-02
2.53E-03	7.63E-03	5.26E-02	1.14E-03	1.87E-02	1.87E-02	1.01E-01	2.53E-03	7.63E-03	5.26E-02	1.14E-03	4.60E-04	1.87E-02	8.31E-02

4.02E-03	1.18E-02	3.85E-02	1.27E-03	1.71E-02	1.71E-02	8.97E-02	4.02E-03	1.18E-02	3.85E-02	1.27E-03	2.87E-04	1.71E-02	7.29E-02
3.69E-03	1.18E-02	3.71E-02	1.20E-03	1.69E-02	1.69E-02	8.76E-02	3.69E-03	1.18E-02	3.71E-02	1.20E-03	2.86E-04	1.69E-02	7.10E-02
4.13E-03	1.30E-02	3.47E-02	1.28E-03	1.75E-02	1.75E-02	8.81E-02	4.13E-03	1.30E-02	3.47E-02	1.28E-03	2.74E-04	1.75E-02	7.08E-02
3.79E-03	1.30E-02	3.36E-02	1.20E-03	1.73E-02	1.73E-02	8.62E-02	3.79E-03	1.30E-02	3.36E-02	1.20E-03	2.73E-04	1.73E-02	6.92E-02
4.26E-03	1.44E-02	3.15E-02	1.28E-03	1.81E-02	1.81E-02	8.76E-02	4.26E-03	1.44E-02	3.15E-02	1.28E-03	2.63E-04	1.81E-02	6.98E-02
1.82E-03	5.11E-02	7.54E-03	2.17E-04	2.61E-02	2.61E-02	1.13E-01	1.82E-03	5.11E-02	7.54E-03	2.17E-04	1.53E-04	2.61E-02	8.69E-02
2.00E-03	5.56E-02	7.51E-03	2.16E-04	2.53E-02	2.53E-02	1.16E-01	2.00E-03	5.56E-02	7.51E-03	2.16E-04	1.53E-04	2.53E-02	9.08E-02
2.21E-03	6.09E-02	7.47E-03	2.15E-04	2.45E-02	2.45E-02	1.20E-01	2.21E-03	6.09E-02	7.47E-03	2.15E-04	1.52E-04	2.45E-02	9.55E-02
2.47E-03	6.67E-02	7.44E-03	2.14E-04	2.39E-02	2.39E-02	1.25E-01	2.47E-03	6.67E-02	7.44E-03	2.14E-04	1.51E-04	2.39E-02	1.01E-01
1.58E-03	4.49E-02	7.29E-03	2.07E-04	2.56E-02	2.56E-02	1.05E-01	1.58E-03	4.49E-02	7.29E-03	2.07E-04	1.49E-04	2.56E-02	7.97E-02
1.70E-03	4.84E-02	7.25E-03	2.07E-04	2.48E-02	2.48E-02	1.07E-01	1.70E-03	4.84E-02	7.25E-03	2.07E-04	1.49E-04	2.48E-02	8.25E-02
1.85E-03	5.24E-02	7.21E-03	2.06E-04	2.41E-02	2.41E-02	1.10E-01	1.85E-03	5.24E-02	7.21E-03	2.06E-04	1.48E-04	2.41E-02	8.60E-02
2.03E-03	5.73E-02	7.18E-03	2.06E-04	2.34E-02	2.34E-02	1.14E-01	2.03E-03	5.73E-02	7.18E-03	2.06E-04	1.48E-04	2.34E-02	9.03E-02
1.11E-03	3.13E-02	7.18E-03	1.96E-04	2.83E-02	2.83E-02	9.64E-02	1.11E-03	3.13E-02	7.18E-03	1.96E-04	1.45E-04	2.83E-02	6.82E-02
1.17E-03	3.31E-02	7.15E-03	1.97E-04	2.75E-02	2.75E-02	9.66E-02	1.17E-03	3.31E-02	7.15E-03	1.97E-04	1.45E-04	2.75E-02	6.92E-02
1.24E-03	3.52E-02	7.13E-03	1.98E-04	2.67E-02	2.67E-02	9.70E-02	1.24E-03	3.52E-02	7.13E-03	1.98E-04	1.45E-04	2.67E-02	7.05E-02
1.31E-03	3.77E-02	7.10E-03	1.98E-04	2.58E-02	2.58E-02	9.79E-02	1.31E-03	3.77E-02	7.10E-03	1.98E-04	1.45E-04	2.58E-02	7.22E-02
1.39E-03	4.01E-02	7.06E-03	1.98E-04	2.51E-02	2.51E-02	9.90E-02	1.39E-03	4.01E-02	7.06E-03	1.98E-04	1.45E-04	2.51E-02	7.40E-02
1.49E-03	4.32E-02	7.03E-03	1.99E-04	2.44E-02	2.44E-02	1.01E-01	1.49E-03	4.32E-02	7.03E-03	1.99E-04	1.45E-04	2.44E-02	7.64E-02
1.60E-03	4.65E-02	6.99E-03	1.99E-04	2.37E-02	2.37E-02	1.03E-01	1.60E-03	4.65E-02	6.99E-03	1.99E-04	1.45E-04	2.37E-02	7.91E-02
1.73E-03	5.02E-02	6.96E-03	1.98E-04	2.30E-02	2.30E-02	1.05E-01	1.73E-03	5.02E-02	6.96E-03	1.98E-04	1.45E-04	2.30E-02	8.23E-02
1.03E-03	2.89E-02	6.95E-03	1.88E-04	2.78E-02	2.78E-02	9.26E-02	1.03E-03	2.89E-02	6.95E-03	1.88E-04	1.41E-04	2.78E-02	6.50E-02
1.08E-03	3.06E-02	6.94E-03	1.89E-04	2.68E-02	2.68E-02	9.24E-02	1.08E-03	3.06E-02	6.94E-03	1.89E-04	1.41E-04	2.68E-02	6.58E-02
1.13E-03	3.24E-02	6.91E-03	1.90E-04	2.61E-02	2.61E-02	9.28E-02	1.13E-03	3.24E-02	6.91E-03	1.90E-04	1.41E-04	2.61E-02	6.68E-02
1.19E-03	3.43E-02	6.88E-03	1.90E-04	2.54E-02	2.54E-02	9.33E-02	1.19E-03	3.43E-02	6.88E-03	1.90E-04	1.41E-04	2.54E-02	6.81E-02
1.25E-03	3.64E-02	6.85E-03	1.90E-04	2.47E-02	2.47E-02	9.41E-02	1.25E-03	3.64E-02	6.85E-03	1.90E-04	1.41E-04	2.47E-02	6.95E-02
1.33E-03	3.89E-02	6.82E-03	1.91E-04	2.40E-02	2.40E-02	9.53E-02	1.33E-03	3.89E-02	6.82E-03	1.91E-04	1.41E-04	2.40E-02	7.14E-02
1.41E-03	4.17E-02	6.79E-03	1.91E-04	2.33E-02	2.33E-02	9.67E-02	1.41E-03	4.17E-02	6.79E-03	1.91E-04	1.41E-04	2.33E-02	7.35E-02
1.51E-03	4.46E-02	6.75E-03	1.91E-04	2.27E-02	2.27E-02	9.86E-02	1.51E-03	4.46E-02	6.75E-03	1.91E-04	1.41E-04	2.27E-02	7.60E-02
9.53E-04	2.69E-02	6.72E-03	1.81E-04	2.74E-02	2.74E-02	8.95E-02	9.53E-04	2.69E-02	6.72E-03	1.81E-04	1.37E-04	2.74E-02	6.23E-02
9.95E-04	2.84E-02	6.72E-03	1.81E-04	2.65E-02	2.65E-02	8.92E-02	9.95E-04	2.84E-02	6.72E-03	1.81E-04	1.37E-04	2.65E-02	6.29E-02
1.04E-03	2.98E-02	6.70E-03	1.82E-04	2.58E-02	2.58E-02	8.93E-02	1.04E-03	2.98E-02	6.70E-03	1.82E-04	1.37E-04	2.58E-02	6.37E-02
1.09E-03	3.15E-02	6.68E-03	1.83E-04	2.51E-02	2.51E-02	8.97E-02	1.09E-03	3.15E-02	6.68E-03	1.83E-04	1.37E-04	2.51E-02	6.47E-02
1.14E-03	3.32E-02	6.64E-03	1.83E-04	2.45E-02	2.45E-02	9.02E-02	1.14E-03	3.32E-02	6.64E-03	1.83E-04	1.37E-04	2.45E-02	6.58E-02
1.20E-03	3.54E-02	6.63E-03	1.84E-04	2.38E-02	2.38E-02	9.10E-02	1.20E-03	3.54E-02	6.63E-03	1.84E-04	1.37E-04	2.38E-02	6.73E-02
1.27E-03	3.77E-02	6.60E-03	1.84E-04	2.31E-02	2.31E-02	9.20E-02	1.27E-03	3.77E-02	6.60E-03	1.84E-04	1.37E-04	2.31E-02	6.90E-02
1.34E-03	4.01E-02	6.56E-03	1.84E-04	2.25E-02	2.25E-02	9.33E-02	1.34E-03	4.01E-02	6.56E-03	1.84E-04	1.37E-04	2.25E-02	7.09E-02
8.90E-04	2.51E-02	6.51E-03	1.74E-04	2.74E-02	2.74E-02	8.74E-02	8.90E-04	2.51E-02	6.51E-03	1.74E-04	1.33E-04	2.74E-02	6.01E-02
9.25E-04	2.64E-02	6.51E-03	1.74E-04	2.64E-02	2.64E-02	8.69E-02	9.25E-04	2.64E-02	6.51E-03	1.74E-04	1.33E-04	2.64E-02	6.06E-02
9.62E-04	2.77E-02	6.49E-03	1.75E-04	2.57E-02	2.57E-02	8.68E-02	9.62E-04	2.77E-02	6.49E-03	1.75E-04	1.33E-04	2.57E-02	6.12E-02
1.00E-03	2.91E-02	6.48E-03	1.76E-04	2.51E-02	2.51E-02	8.69E-02	1.00E-03	2.91E-02	6.48E-03	1.76E-04	1.33E-04	2.51E-02	6.20E-02
1.05E-03	3.08E-02	6.47E-03	1.76E-04	2.43E-02	2.43E-02	8.71E-02	1.05E-03	3.08E-02	6.47E-03	1.76E-04	1.33E-04	2.43E-02	6.29E-02
1.10E-03	3.25E-02	6.45E-03	1.77E-04	2.36E-02	2.36E-02	8.75E-02	1.10E-03	3.25E-02	6.45E-03	1.77E-04	1.33E-04	2.36E-02	6.40E-02
1.15E-03	3.44E-02	6.43E-03	1.78E-04	2.30E-02	2.30E-02	8.81E-02	1.15E-03	3.44E-02	6.43E-03	1.78E-04	1.34E-04	2.30E-02	6.53E-02
1.21E-03	3.64E-02	6.39E-03	1.78E-04	2.24E-02	2.24E-02	8.89E-02	1.21E-03	3.64E-02	6.39E-03	1.78E-04	1.34E-04	2.24E-02	6.67E-02
8.35E-04	2.35E-02	6.30E-03	1.67E-04	2.77E-02	2.77E-02	8.62E-02	8.35E-04	2.35E-02	6.30E-03	1.67E-04	1.30E-04	2.77E-02	5.86E-02
8.65E-04	2.46E-02	6.30E-03	1.68E-04	2.68E-02	2.68E-02	8.57E-02	8.65E-04	2.46E-02	6.30E-03	1.68E-04	1.29E-04	2.68E-02	5.89E-02
8.97E-04	2.58E-02	6.30E-03	1.69E-04	2.59E-02	2.59E-02	8.50E-02	8.97E-04	2.58E-02	6.30E-03	1.69E-04	1.29E-04	2.59E-02	5.92E-02
9.32E-04	2.71E-02	6.30E-03	1.69E-04	2.51E-02	2.51E-02	8.48E-02	9.32E-04	2.71E-02	6.30E-03	1.69E-04	1.29E-04	2.51E-02	5.98E-02
9.71E-04	2.86E-02	6.30E-03	1.70E-04	2.43E-02	2.43E-02	8.47E-02	9.71E-04	2.86E-02	6.30E-03	1.70E-04	1.30E-04	2.43E-02	6.05E-02
1.01E-03	3.01E-02	6.29E-03	1.71E-04	2.34E-02	2.34E-02	8.44E-02	1.01E-03	3.01E-02	6.29E-03	1.71E-04	1.30E-04	2.34E-02	6.11E-02
1.05E-03	3.16E-02	6.26E-03	1.72E-04	2.29E-02	2.29E-02	8.49E-02	1.05E-03	3.16E-02	6.26E-03	1.72E-04	1.30E-04	2.29E-02	6.21E-02
1.10E-03	3.32E-02	6.23E-03	1.72E-04	2.23E-02	2.23E-02	8.53E-02	1.10E-03	3.32E-02	6.23E-03	1.72E-04	1.30E-04	2.23E-02	6.31E-02
7.89E-04	2.22E-02	6.11E-03	1.62E-04	2.82E-02	2.82E-02	8.57E-02	7.89E-04	2.22E-02	6.11E-03	1.62E-04	1.26E-04	2.82E-02	5.76E-02

8.15E-04	2.33E-02	6.12E-03	1.62E-04	2.71E-02	2.71E-02	8.45E-02	8.15E-04	2.33E-02	6.12E-03	1.62E-04	1.26E-04	2.71E-02	5.76E-02
8.43E-04	2.43E-02	6.13E-03	1.63E-04	2.62E-02	2.62E-02	8.38E-02	8.43E-04	2.43E-02	6.13E-03	1.63E-04	1.26E-04	2.62E-02	5.77E-02
8.73E-04	2.55E-02	6.13E-03	1.64E-04	2.53E-02	2.53E-02	8.32E-02	8.73E-04	2.55E-02	6.13E-03	1.64E-04	1.26E-04	2.53E-02	5.80E-02
9.03E-04	2.67E-02	6.14E-03	1.65E-04	2.42E-02	2.42E-02	8.24E-02	9.03E-04	2.67E-02	6.14E-03	1.65E-04	1.26E-04	2.42E-02	5.82E-02
9.34E-04	2.78E-02	6.13E-03	1.66E-04	2.35E-02	2.35E-02	8.20E-02	9.34E-04	2.78E-02	6.13E-03	1.66E-04	1.27E-04	2.35E-02	5.87E-02
9.69E-04	2.91E-02	6.11E-03	1.66E-04	2.29E-02	2.29E-02	8.20E-02	9.69E-04	2.91E-02	6.11E-03	1.66E-04	1.27E-04	2.29E-02	5.93E-02
1.00E-03	3.03E-02	6.09E-03	1.67E-04	2.21E-02	2.21E-02	8.18E-02	1.00E-03	3.03E-02	6.09E-03	1.67E-04	1.27E-04	2.21E-02	5.98E-02
7.49E-04	2.10E-02	5.93E-03	1.56E-04	2.88E-02	2.88E-02	8.54E-02	7.49E-04	2.10E-02	5.93E-03	1.56E-04	1.23E-04	2.88E-02	5.68E-02
7.71E-04	2.19E-02	5.94E-03	1.57E-04	2.77E-02	2.77E-02	8.41E-02	7.71E-04	2.19E-02	5.94E-03	1.57E-04	1.23E-04	2.77E-02	5.66E-02
7.95E-04	2.29E-02	5.95E-03	1.58E-04	2.66E-02	2.66E-02	8.30E-02	7.95E-04	2.29E-02	5.95E-03	1.58E-04	1.23E-04	2.66E-02	5.65E-02
8.20E-04	2.39E-02	5.97E-03	1.59E-04	2.54E-02	2.54E-02	8.17E-02	8.20E-04	2.39E-02	5.97E-03	1.59E-04	1.23E-04	2.54E-02	5.64E-02
8.40E-04	2.47E-02	5.99E-03	1.60E-04	2.42E-02	2.42E-02	8.01E-02	8.40E-04	2.47E-02	5.99E-03	1.60E-04	1.23E-04	2.42E-02	5.60E-02
8.54E-04	2.50E-02	5.99E-03	1.61E-04	2.28E-02	2.28E-02	7.77E-02	8.54E-04	2.50E-02	5.99E-03	1.61E-04	1.24E-04	2.28E-02	5.50E-02
8.67E-04	2.54E-02	5.99E-03	1.61E-04	2.18E-02	2.18E-02	7.60E-02	8.67E-04	2.54E-02	5.99E-03	1.61E-04	1.24E-04	2.18E-02	5.44E-02
8.82E-04	2.58E-02	5.97E-03	1.62E-04	2.10E-02	2.10E-02	7.47E-02	8.82E-04	2.58E-02	5.97E-03	1.62E-04	1.25E-04	2.10E-02	5.39E-02
3.11E-03	1.28E-02	2.64E-02	7.92E-04	1.10E-03	1.10E-03	4.53E-02	3.11E-03	1.28E-02	2.64E-02	7.92E-04	1.95E-04	1.10E-03	4.44E-02
2.86E-03	1.27E-02	2.51E-02	7.60E-04	1.09E-03	1.09E-03	4.36E-02	2.86E-03	1.27E-02	2.51E-02	7.60E-04	2.03E-04	1.09E-03	4.27E-02
2.64E-03	1.27E-02	2.37E-02	7.30E-04	1.07E-03	1.07E-03	4.19E-02	2.64E-03	1.27E-02	2.37E-02	7.30E-04	2.10E-04	1.07E-03	4.10E-02
2.46E-03	1.26E-02	2.25E-02	7.03E-04	1.06E-03	1.06E-03	4.03E-02	2.46E-03	1.26E-02	2.25E-02	7.03E-04	2.15E-04	1.06E-03	3.95E-02
2.28E-03	1.24E-02	2.09E-02	6.73E-04	1.03E-03	1.03E-03	3.83E-02	2.28E-03	1.24E-02	2.09E-02	6.73E-04	2.18E-04	1.03E-03	3.75E-02
3.56E-03	1.21E-02	2.94E-02	8.37E-04	1.13E-03	1.13E-03	4.82E-02	3.56E-03	1.21E-02	2.94E-02	8.37E-04	1.97E-04	1.13E-03	4.73E-02
3.21E-03	1.20E-02	2.75E-02	8.00E-04	1.11E-03	1.11E-03	4.58E-02	3.21E-03	1.20E-02	2.75E-02	8.00E-04	2.05E-04	1.11E-03	4.49E-02
2.92E-03	1.19E-02	2.55E-02	7.64E-04	1.08E-03	1.08E-03	4.33E-02	2.92E-03	1.19E-02	2.55E-02	7.64E-04	2.13E-04	1.08E-03	4.24E-02
2.66E-03	1.17E-02	2.36E-02	7.29E-04	1.06E-03	1.06E-03	4.09E-02	2.66E-03	1.17E-02	2.36E-02	7.29E-04	2.20E-04	1.06E-03	4.00E-02
2.47E-03	1.16E-02	2.23E-02	7.02E-04	1.04E-03	1.04E-03	3.91E-02	2.47E-03	1.16E-02	2.23E-02	7.02E-04	2.26E-04	1.04E-03	3.83E-02
4.17E-03	1.14E-02	3.17E-02	8.79E-04	1.13E-03	1.13E-03	5.04E-02	4.17E-03	1.14E-02	3.17E-02	8.79E-04	1.98E-04	1.13E-03	4.95E-02
3.66E-03	1.12E-02	2.91E-02	8.34E-04	1.10E-03	1.10E-03	4.70E-02	3.66E-03	1.12E-02	2.91E-02	8.34E-04	2.07E-04	1.10E-03	4.61E-02
3.27E-03	1.11E-02	2.70E-02	7.97E-04	1.09E-03	1.09E-03	4.43E-02	3.27E-03	1.11E-02	2.70E-02	7.97E-04	2.15E-04	1.09E-03	4.35E-02
2.97E-03	1.10E-02	2.53E-02	7.65E-04	1.07E-03	1.07E-03	4.22E-02	2.97E-03	1.10E-02	2.53E-02	7.65E-04	2.24E-04	1.07E-03	4.14E-02
2.71E-03	1.09E-02	2.36E-02	7.35E-04	1.06E-03	1.06E-03	4.01E-02	2.71E-03	1.09E-02	2.36E-02	7.35E-04	2.31E-04	1.06E-03	3.93E-02
2.46E-03	1.07E-02	2.17E-02	6.99E-04	1.03E-03	1.03E-03	3.76E-02	2.46E-03	1.07E-02	2.17E-02	6.99E-04	2.35E-04	1.03E-03	3.68E-02
2.29E-03	1.06E-02	2.05E-02	6.73E-04	1.01E-03	1.01E-03	3.61E-02	2.29E-03	1.06E-02	2.05E-02	6.73E-04	2.36E-04	1.01E-03	3.53E-02
3.40E-03	1.04E-02	2.72E-02	8.09E-04	1.09E-03	1.09E-03	4.40E-02	3.40E-03	1.04E-02	2.72E-02	8.09E-04	2.26E-04	1.09E-03	4.31E-02
3.05E-03	1.03E-02	2.53E-02	7.76E-04	1.08E-03	1.08E-03	4.15E-02	3.05E-03	1.03E-02	2.53E-02	7.76E-04	2.34E-04	1.08E-03	4.07E-02
2.81E-03	1.03E-02	2.42E-02	7.58E-04	1.08E-03	1.08E-03	4.03E-02	2.81E-03	1.03E-02	2.42E-02	7.58E-04	2.42E-04	1.08E-03	3.94E-02
2.56E-03	1.01E-02	2.25E-02	7.23E-04	1.06E-03	1.06E-03	3.80E-02	2.56E-03	1.01E-02	2.25E-02	7.23E-04	2.45E-04	1.06E-03	3.72E-02
4.13E-03	2.68E-02	2.28E-02	1.07E-03	2.09E-02	2.09E-02	9.65E-02	4.13E-03	2.68E-02	2.28E-02	1.07E-03	2.28E-04	2.09E-02	7.59E-02
3.82E-03	2.75E-02	2.23E-02	9.97E-04	2.05E-02	2.05E-02	9.56E-02	3.82E-03	2.75E-02	2.23E-02	9.97E-04	2.28E-04	2.05E-02	7.53E-02
4.76E-03	3.75E-02	2.16E-02	1.09E-03	2.26E-02	2.26E-02	1.10E-01	4.76E-03	3.75E-02	2.16E-02	1.09E-03	2.22E-04	2.26E-02	8.79E-02
4.35E-03	3.82E-02	2.11E-02	9.97E-04	2.20E-02	2.20E-02	1.09E-01	4.35E-03	3.82E-02	2.11E-02	9.97E-04	2.21E-04	2.20E-02	8.70E-02
7.96E-04	4.31E-03	2.84E-02	1.06E-03	6.48E-03	6.48E-03	4.75E-02	7.96E-04	4.31E-03	2.84E-02	1.06E-03	1.43E-03	6.48E-03	4.24E-02
8.09E-04	4.28E-03	2.90E-02	1.08E-03	6.62E-03	6.62E-03	4.84E-02	8.09E-04	4.28E-03	2.90E-02	1.08E-03	1.44E-03	6.62E-03	4.32E-02
7.99E-04	4.28E-03	2.86E-02	1.06E-03	6.54E-03	6.54E-03	4.78E-02	7.99E-04	4.28E-03	2.86E-02	1.06E-03	1.41E-03	6.54E-03	4.27E-02
8.22E-04	4.26E-03	2.96E-02	1.09E-03	6.76E-03	6.76E-03	4.93E-02	8.22E-04	4.26E-03	2.96E-02	1.09E-03	1.45E-03	6.76E-03	4.40E-02
8.12E-04	4.26E-03	2.92E-02	1.07E-03	6.69E-03	6.69E-03	4.87E-02	8.12E-04	4.26E-03	2.92E-02	1.07E-03	1.41E-03	6.69E-03	4.35E-02
8.35E-04	4.24E-03	3.03E-02	1.10E-03	6.91E-03	6.91E-03	5.03E-02	8.35E-04	4.24E-03	3.03E-02	1.10E-03	1.45E-03	6.91E-03	4.48E-02
8.25E-04	4.24E-03	2.98E-02	1.08E-03	6.82E-03	6.82E-03	4.96E-02	8.25E-04	4.24E-03	2.98E-02	1.08E-03	1.42E-03	6.82E-03	4.42E-02
8.70E-04	4.22E-03	3.18E-02	1.16E-03	7.21E-03	7.21E-03	5.25E-02	8.70E-04	4.22E-03	3.18E-02	1.16E-03	1.53E-03	7.21E-03	4.68E-02
8.59E-04	4.22E-03	3.13E-02	1.14E-03	7.12E-03	7.12E-03	5.18E-02	8.59E-04	4.22E-03	3.13E-02	1.14E-03	1.49E-03	7.12E-03	4.62E-02
8.49E-04	4.22E-03	3.09E-02	1.12E-03	7.04E-03	7.04E-03	5.12E-02	8.49E-04	4.22E-03	3.09E-02	1.12E-03	1.45E-03	7.04E-03	4.56E-02
8.85E-04	4.20E-03	3.25E-02	1.18E-03	7.34E-03	7.34E-03	5.34E-02	8.85E-04	4.20E-03	3.25E-02	1.18E-03	1.53E-03	7.34E-03	4.76E-02
8.74E-04	4.21E-03	3.20E-02	1.15E-03	7.25E-03	7.25E-03	5.27E-02	8.74E-04	4.21E-03	3.20E-02	1.15E-03	1.49E-03	7.25E-03	4.70E-02
9.01E-04	4.20E-03	3.32E-02	1.19E-03	7.47E-03	7.47E-03	5.44E-02	9.01E-04	4.20E-03	3.32E-02	1.19E-03	1.52E-03	7.47E-03	4.84E-02
8.89E-04	4.20E-03	3.27E-02	1.17E-03	7.37E-03	7.37E-03	5.37E-02	8.89E-04	4.20E-03	3.27E-02	1.17E-03	1.48E-03	7.37E-03	4.78E-02

9.17E-04	4.20E-03	3.38E-02	1.20E-03	7.59E-03	7.59E-03	5.53E-02	9.17E-04	4.20E-03	3.38E-02	1.20E-03	1.50E-03	7.59E-03	4.93E-02
9.05E-04	4.20E-03	3.33E-02	1.18E-03	7.50E-03	7.50E-03	5.46E-02	9.05E-04	4.20E-03	3.33E-02	1.18E-03	1.46E-03	7.50E-03	4.86E-02
1.03E-03	4.34E-03	3.81E-02	1.26E-03	8.32E-03	8.32E-03	6.14E-02	1.03E-03	4.34E-03	3.81E-02	1.26E-03	1.30E-03	8.32E-03	5.44E-02
1.02E-03	4.33E-03	3.75E-02	1.23E-03	8.27E-03	8.27E-03	6.06E-02	1.02E-03	4.33E-03	3.75E-02	1.23E-03	1.26E-03	8.27E-03	5.36E-02
1.00E-03	4.32E-03	3.68E-02	1.20E-03	8.21E-03	8.21E-03	5.97E-02	1.00E-03	4.32E-03	3.68E-02	1.20E-03	1.23E-03	8.21E-03	5.28E-02
1.06E-03	4.39E-03	3.88E-02	1.27E-03	8.47E-03	8.47E-03	6.25E-02	1.06E-03	4.39E-03	3.88E-02	1.27E-03	1.25E-03	8.47E-03	5.52E-02
1.04E-03	4.38E-03	3.81E-02	1.24E-03	8.41E-03	8.41E-03	6.16E-02	1.04E-03	4.38E-03	3.81E-02	1.24E-03	1.22E-03	8.41E-03	5.44E-02
1.02E-03	4.37E-03	3.74E-02	1.21E-03	8.38E-03	8.38E-03	6.08E-02	1.02E-03	4.37E-03	3.74E-02	1.21E-03	1.19E-03	8.38E-03	5.36E-02
1.08E-03	4.45E-03	3.95E-02	1.27E-03	8.63E-03	8.63E-03	6.36E-02	1.08E-03	4.45E-03	3.95E-02	1.27E-03	1.20E-03	8.63E-03	5.61E-02
1.06E-03	4.44E-03	3.88E-02	1.24E-03	8.59E-03	8.59E-03	6.27E-02	1.06E-03	4.44E-03	3.88E-02	1.24E-03	1.17E-03	8.59E-03	5.53E-02
1.05E-03	4.42E-03	3.80E-02	1.21E-03	8.55E-03	8.55E-03	6.18E-02	1.05E-03	4.42E-03	3.80E-02	1.21E-03	1.14E-03	8.55E-03	5.44E-02
1.03E-03	4.41E-03	3.73E-02	1.18E-03	8.51E-03	8.51E-03	6.10E-02	1.03E-03	4.41E-03	3.73E-02	1.18E-03	1.12E-03	8.51E-03	5.36E-02
1.11E-03	4.52E-03	4.02E-02	1.28E-03	8.82E-03	8.82E-03	6.47E-02	1.11E-03	4.52E-03	4.02E-02	1.28E-03	1.15E-03	8.82E-03	5.71E-02
1.09E-03	4.51E-03	3.94E-02	1.24E-03	8.80E-03	8.80E-03	6.38E-02	1.09E-03	4.51E-03	3.94E-02	1.24E-03	1.12E-03	8.80E-03	5.62E-02
1.07E-03	4.49E-03	3.87E-02	1.21E-03	8.76E-03	8.76E-03	6.30E-02	1.07E-03	4.49E-03	3.87E-02	1.21E-03	1.10E-03	8.76E-03	5.53E-02
1.05E-03	4.47E-03	3.79E-02	1.19E-03	8.72E-03	8.72E-03	6.21E-02	1.05E-03	4.47E-03	3.79E-02	1.19E-03	1.07E-03	8.72E-03	5.44E-02
1.14E-03	4.60E-03	4.09E-02	1.28E-03	9.04E-03	9.04E-03	6.60E-02	1.14E-03	4.60E-03	4.09E-02	1.28E-03	1.10E-03	9.04E-03	5.80E-02
1.12E-03	4.58E-03	4.00E-02	1.25E-03	9.02E-03	9.02E-03	6.50E-02	1.12E-03	4.58E-03	4.00E-02	1.25E-03	1.07E-03	9.02E-03	5.71E-02
1.10E-03	4.56E-03	3.93E-02	1.22E-03	9.00E-03	9.00E-03	6.41E-02	1.10E-03	4.56E-03	3.93E-02	1.22E-03	1.05E-03	9.00E-03	5.62E-02
1.08E-03	4.54E-03	3.85E-02	1.19E-03	8.98E-03	8.98E-03	6.33E-02	1.08E-03	4.54E-03	3.85E-02	1.19E-03	1.03E-03	8.98E-03	5.53E-02
1.17E-03	4.69E-03	4.15E-02	1.28E-03	9.31E-03	9.31E-03	6.73E-02	1.17E-03	4.69E-03	4.15E-02	1.28E-03	1.04E-03	9.31E-03	5.90E-02
1.14E-03	4.67E-03	4.07E-02	1.25E-03	9.30E-03	9.30E-03	6.63E-02	1.14E-03	4.67E-03	4.07E-02	1.25E-03	1.02E-03	9.30E-03	5.81E-02
1.12E-03	4.65E-03	3.98E-02	1.22E-03	9.30E-03	9.30E-03	6.54E-02	1.12E-03	4.65E-03	3.98E-02	1.22E-03	1.00E-03	9.30E-03	5.71E-02
1.27E-03	5.00E-03	4.34E-02	1.27E-03	1.05E-02	1.05E-02	7.20E-02	1.27E-03	5.00E-03	4.34E-02	1.27E-03	8.98E-04	1.05E-02	6.23E-02
1.24E-03	4.98E-03	4.24E-02	1.24E-03	1.06E-02	1.06E-02	7.10E-02	1.24E-03	4.98E-03	4.24E-02	1.24E-03	8.86E-04	1.06E-02	6.13E-02
1.22E-03	4.96E-03	4.14E-02	1.20E-03	1.06E-02	1.06E-02	7.01E-02	1.22E-03	4.96E-03	4.14E-02	1.20E-03	8.72E-04	1.06E-02	6.03E-02
1.30E-03	5.11E-03	4.39E-02	1.27E-03	1.12E-02	1.12E-02	7.40E-02	1.30E-03	5.11E-03	4.39E-02	1.27E-03	8.54E-04	1.12E-02	6.37E-02
1.28E-03	5.10E-03	4.29E-02	1.23E-03	1.12E-02	1.12E-02	7.30E-02	1.28E-03	5.10E-03	4.29E-02	1.23E-03	8.43E-04	1.12E-02	6.26E-02
1.25E-03	5.09E-03	4.19E-02	1.20E-03	1.12E-02	1.12E-02	7.20E-02	1.25E-03	5.09E-03	4.19E-02	1.20E-03	8.32E-04	1.12E-02	6.16E-02
1.35E-03	5.24E-03	4.45E-02	1.26E-03	1.20E-02	1.20E-02	7.63E-02	1.35E-03	5.24E-03	4.45E-02	1.26E-03	8.14E-04	1.20E-02	6.51E-02
1.32E-03	5.23E-03	4.34E-02	1.22E-03	1.20E-02	1.20E-02	7.52E-02	1.32E-03	5.23E-03	4.34E-02	1.22E-03	8.05E-04	1.20E-02	6.40E-02
1.29E-03	5.22E-03	4.24E-02	1.19E-03	1.20E-02	1.20E-02	7.41E-02	1.29E-03	5.22E-03	4.24E-02	1.19E-03	7.95E-04	1.20E-02	6.29E-02
4.35E-04	1.04E-02	3.50E-03	9.25E-05	9.66E-03	9.66E-03	3.37E-02	4.35E-04	1.04E-02	3.50E-03	9.25E-05	7.41E-05	9.66E-03	2.41E-02
4.56E-04	1.09E-02	3.53E-03	9.30E-05	9.42E-03	9.42E-03	3.38E-02	4.56E-04	1.09E-02	3.53E-03	9.30E-05	7.45E-05	9.42E-03	2.45E-02
4.63E-04	1.11E-02	3.54E-03	9.31E-05	9.31E-03	9.31E-03	3.38E-02	4.63E-04	1.11E-02	3.54E-03	9.31E-05	7.46E-05	9.31E-03	2.46E-02
4.71E-04	1.13E-02	3.55E-03	9.34E-05	9.24E-03	9.24E-03	3.39E-02	4.71E-04	1.13E-02	3.55E-03	9.34E-05	7.48E-05	9.24E-03	2.48E-02
4.79E-04	1.15E-02	3.56E-03	9.35E-05	9.13E-03	9.13E-03	3.39E-02	4.79E-04	1.15E-02	3.56E-03	9.35E-05	7.48E-05	9.13E-03	2.48E-02
4.88E-04	1.18E-02	3.57E-03	9.39E-05	9.06E-03	9.06E-03	3.40E-02	4.88E-04	1.18E-02	3.57E-03	9.39E-05	7.50E-05	9.06E-03	2.50E-02
4.97E-04	1.20E-02	3.58E-03	9.41E-05	8.96E-03	8.96E-03	3.41E-02	4.97E-04	1.20E-02	3.58E-03	9.41E-05	7.51E-05	8.96E-03	2.52E-02
4.23E-04	1.00E-02	3.42E-03	9.05E-05	8.79E-03	8.79E-03	3.15E-02	4.23E-04	1.00E-02	3.42E-03	9.05E-05	7.26E-05	8.79E-03	2.28E-02
4.43E-04	1.05E-02	3.45E-03	9.10E-05	8.62E-03	8.62E-03	3.17E-02	4.43E-04	1.05E-02	3.45E-03	9.10E-05	7.30E-05	8.62E-03	2.32E-02
4.49E-04	1.06E-02	3.45E-03	9.10E-05	8.54E-03	8.54E-03	3.17E-02	4.49E-04	1.06E-02	3.45E-03	9.10E-05	7.30E-05	8.54E-03	2.32E-02
4.57E-04	1.08E-02	3.46E-03	9.12E-05	8.49E-03	8.49E-03	3.18E-02	4.57E-04	1.08E-02	3.46E-03	9.12E-05	7.32E-05	8.49E-03	2.34E-02
4.64E-04	1.10E-02	3.47E-03	9.13E-05	8.42E-03	8.42E-03	3.19E-02	4.64E-04	1.10E-02	3.47E-03	9.13E-05	7.33E-05	8.42E-03	2.35E-02
4.72E-04	1.12E-02	3.48E-03	9.16E-05	8.36E-03	8.36E-03	3.20E-02	4.72E-04	1.12E-02	3.48E-03	9.16E-05	7.34E-05	8.36E-03	2.37E-02
4.80E-04	1.14E-02	3.49E-03	9.18E-05	8.29E-03	8.29E-03	3.21E-02	4.80E-04	1.14E-02	3.49E-03	9.18E-05	7.35E-05	8.29E-03	2.39E-02
3.96E-04	9.23E-03	3.32E-03	8.84E-05	8.16E-03	8.16E-03	2.94E-02	3.96E-04	9.23E-03	3.32E-03	8.84E-05	7.07E-05	8.16E-03	2.13E-02
4.01E-04	9.36E-03	3.32E-03	8.84E-05	8.12E-03	8.12E-03	2.94E-02	4.01E-04	9.36E-03	3.32E-03	8.84E-05	7.08E-05	8.12E-03	2.14E-02
4.07E-04	9.51E-03	3.33E-03	8.85E-05	8.09E-03	8.09E-03	2.95E-02	4.07E-04	9.51E-03	3.33E-03	8.85E-05	7.10E-05	8.09E-03	2.15E-02
4.12E-04	9.65E-03	3.34E-03	8.86E-05	8.05E-03	8.05E-03	2.96E-02	4.12E-04	9.65E-03	3.34E-03	8.86E-05	7.11E-05	8.05E-03	2.16E-02
4.18E-04	9.78E-03	3.34E-03	8.86E-05	8.00E-03	8.00E-03	2.96E-02	4.18E-04	9.78E-03	3.34E-03	8.86E-05	7.12E-05	8.00E-03	2.17E-02
4.24E-04	9.93E-03	3.35E-03	8.87E-05	7.96E-03	7.96E-03	2.97E-02	4.24E-04	9.93E-03	3.35E-03	8.87E-05	7.14E-05	7.96E-03	2.18E-02
4.31E-04	1.01E-02	3.37E-03	8.90E-05	7.93E-03	7.93E-03	2.99E-02	4.31E-04	1.01E-02	3.37E-03	8.90E-05	7.16E-05	7.93E-03	2.20E-02
4.37E-04	1.02E-02	3.37E-03	8.90E-05	7.87E-03	7.87E-03	2.99E-02	4.37E-04	1.02E-02	3.37E-03	8.90E-05	7.16E-05	7.87E-03	2.21E-02

4.44E-04	1.04E-02	3.38E-03	8.92E-05	7.84E-03	7.84E-03	3.00E-02	4.44E-04	1.04E-02	3.38E-03	8.92E-05	7.18E-05	7.84E-03	2.22E-02
4.50E-04	1.05E-02	3.39E-03	8.93E-05	7.78E-03	7.78E-03	3.00E-02	4.50E-04	1.05E-02	3.39E-03	8.93E-05	7.18E-05	7.78E-03	2.23E-02
4.58E-04	1.07E-02	3.40E-03	8.95E-05	7.73E-03	7.73E-03	3.01E-02	4.58E-04	1.07E-02	3.40E-03	8.95E-05	7.19E-05	7.73E-03	2.25E-02
4.65E-04	1.09E-02	3.41E-03	8.97E-05	7.68E-03	7.68E-03	3.02E-02	4.65E-04	1.09E-02	3.41E-03	8.97E-05	7.20E-05	7.68E-03	2.26E-02
3.87E-04	8.95E-03	3.25E-03	8.67E-05	7.50E-03	7.50E-03	2.77E-02	3.87E-04	8.95E-03	3.25E-03	8.67E-05	6.94E-05	7.50E-03	2.02E-02
3.92E-04	9.06E-03	3.25E-03	8.67E-05	7.47E-03	7.47E-03	2.77E-02	3.92E-04	9.06E-03	3.25E-03	8.67E-05	6.95E-05	7.47E-03	2.03E-02
3.97E-04	9.22E-03	3.26E-03	8.69E-05	7.46E-03	7.46E-03	2.79E-02	3.97E-04	9.22E-03	3.26E-03	8.69E-05	6.97E-05	7.46E-03	2.05E-02
4.02E-04	9.32E-03	3.26E-03	8.68E-05	7.42E-03	7.42E-03	2.79E-02	4.02E-04	9.32E-03	3.26E-03	8.68E-05	6.97E-05	7.42E-03	2.06E-02
4.07E-04	9.43E-03	3.27E-03	8.68E-05	7.38E-03	7.38E-03	2.79E-02	4.07E-04	9.43E-03	3.27E-03	8.68E-05	6.98E-05	7.38E-03	2.06E-02
4.13E-04	9.57E-03	3.28E-03	8.69E-05	7.35E-03	7.35E-03	2.80E-02	4.13E-04	9.57E-03	3.28E-03	8.69E-05	7.00E-05	7.35E-03	2.08E-02
4.19E-04	9.72E-03	3.29E-03	8.70E-05	7.32E-03	7.32E-03	2.81E-02	4.19E-04	9.72E-03	3.29E-03	8.70E-05	7.02E-05	7.32E-03	2.09E-02
4.25E-04	9.85E-03	3.29E-03	8.71E-05	7.28E-03	7.28E-03	2.82E-02	4.25E-04	9.85E-03	3.29E-03	8.71E-05	7.02E-05	7.28E-03	2.10E-02
4.31E-04	9.99E-03	3.30E-03	8.72E-05	7.24E-03	7.24E-03	2.83E-02	4.31E-04	9.99E-03	3.30E-03	8.72E-05	7.03E-05	7.24E-03	2.11E-02
4.38E-04	1.01E-02	3.31E-03	8.73E-05	7.21E-03	7.21E-03	2.84E-02	4.38E-04	1.01E-02	3.31E-03	8.73E-05	7.04E-05	7.21E-03	2.12E-02
4.45E-04	1.03E-02	3.32E-03	8.76E-05	7.18E-03	7.18E-03	2.85E-02	4.45E-04	1.03E-02	3.32E-03	8.76E-05	7.06E-05	7.18E-03	2.14E-02
4.52E-04	1.05E-02	3.33E-03	8.77E-05	7.14E-03	7.14E-03	2.86E-02	4.52E-04	1.05E-02	3.33E-03	8.77E-05	7.06E-05	7.14E-03	2.15E-02
3.79E-04	8.70E-03	3.19E-03	8.52E-05	6.94E-03	6.94E-03	2.62E-02	3.79E-04	8.70E-03	3.19E-03	8.52E-05	6.83E-05	6.94E-03	1.94E-02
3.83E-04	8.77E-03	3.18E-03	8.49E-05	6.90E-03	6.90E-03	2.62E-02	3.83E-04	8.77E-03	3.18E-03	8.49E-05	6.82E-05	6.90E-03	1.94E-02
3.87E-04	8.84E-03	3.18E-03	8.47E-05	6.85E-03	6.85E-03	2.62E-02	3.87E-04	8.84E-03	3.18E-03	8.47E-05	6.81E-05	6.85E-03	1.94E-02
3.92E-04	8.96E-03	3.19E-03	8.48E-05	6.84E-03	6.84E-03	2.63E-02	3.92E-04	8.96E-03	3.19E-03	8.48E-05	6.82E-05	6.84E-03	1.95E-02
3.97E-04	9.08E-03	3.19E-03	8.49E-05	6.82E-03	6.82E-03	2.64E-02	3.97E-04	9.08E-03	3.19E-03	8.49E-05	6.84E-05	6.82E-03	1.96E-02
4.03E-04	9.21E-03	3.20E-03	8.50E-05	6.80E-03	6.80E-03	2.65E-02	4.03E-04	9.21E-03	3.20E-03	8.50E-05	6.85E-05	6.80E-03	1.98E-02
4.08E-04	9.34E-03	3.21E-03	8.51E-05	6.78E-03	6.78E-03	2.66E-02	4.08E-04	9.34E-03	3.21E-03	8.51E-05	6.87E-05	6.78E-03	1.99E-02
4.14E-04	9.50E-03	3.22E-03	8.54E-05	6.76E-03	6.76E-03	2.67E-02	4.14E-04	9.50E-03	3.22E-03	8.54E-05	6.90E-05	6.76E-03	2.00E-02
4.20E-04	9.60E-03	3.22E-03	8.54E-05	6.73E-03	6.73E-03	2.68E-02	4.20E-04	9.60E-03	3.22E-03	8.54E-05	6.90E-05	6.73E-03	2.01E-02
4.26E-04	9.73E-03	3.23E-03	8.55E-05	6.70E-03	6.70E-03	2.69E-02	4.26E-04	9.73E-03	3.23E-03	8.55E-05	6.91E-05	6.70E-03	2.02E-02
4.32E-04	9.84E-03	3.24E-03	8.56E-05	6.67E-03	6.67E-03	2.69E-02	4.32E-04	9.84E-03	3.24E-03	8.56E-05	6.91E-05	6.67E-03	2.03E-02
4.39E-04	9.98E-03	3.25E-03	8.57E-05	6.64E-03	6.64E-03	2.70E-02	4.39E-04	9.98E-03	3.25E-03	8.57E-05	6.92E-05	6.64E-03	2.05E-02
3.87E-04	8.76E-03	3.12E-03	8.31E-05	6.33E-03	6.33E-03	2.50E-02	3.87E-04	8.76E-03	3.12E-03	8.31E-05	6.70E-05	6.33E-03	1.88E-02
3.93E-04	8.88E-03	3.13E-03	8.32E-05	6.32E-03	6.32E-03	2.51E-02	3.93E-04	8.88E-03	3.13E-03	8.32E-05	6.72E-05	6.32E-03	1.89E-02
3.98E-04	9.00E-03	3.14E-03	8.34E-05	6.31E-03	6.31E-03	2.52E-02	3.98E-04	9.00E-03	3.14E-03	8.34E-05	6.74E-05	6.31E-03	1.90E-02
4.03E-04	9.11E-03	3.14E-03	8.35E-05	6.29E-03	6.29E-03	2.53E-02	4.03E-04	9.11E-03	3.14E-03	8.35E-05	6.75E-05	6.29E-03	1.91E-02
4.09E-04	9.22E-03	3.15E-03	8.36E-05	6.27E-03	6.27E-03	2.54E-02	4.09E-04	9.22E-03	3.15E-03	8.36E-05	6.76E-05	6.27E-03	1.92E-02
4.15E-04	9.32E-03	3.16E-03	8.36E-05	6.24E-03	6.24E-03	2.55E-02	4.15E-04	9.32E-03	3.16E-03	8.36E-05	6.77E-05	6.24E-03	1.93E-02
4.21E-04	9.43E-03	3.16E-03	8.37E-05	6.21E-03	6.21E-03	2.55E-02	4.21E-04	9.43E-03	3.16E-03	8.37E-05	6.77E-05	6.21E-03	1.94E-02
4.27E-04	9.56E-03	3.17E-03	8.38E-05	6.20E-03	6.20E-03	2.56E-02	4.27E-04	9.56E-03	3.17E-03	8.38E-05	6.79E-05	6.20E-03	1.95E-02
3.69E-04	8.24E-03	3.04E-03	8.12E-05	5.91E-03	5.91E-03	2.36E-02	3.69E-04	8.24E-03	3.04E-03	8.12E-05	6.54E-05	5.91E-03	1.77E-02
3.74E-04	8.34E-03	3.05E-03	8.13E-05	5.91E-03	5.91E-03	2.37E-02	3.74E-04	8.34E-03	3.05E-03	8.13E-05	6.56E-05	5.91E-03	1.78E-02
3.78E-04	8.45E-03	3.05E-03	8.14E-05	5.91E-03	5.91E-03	2.38E-02	3.78E-04	8.45E-03	3.05E-03	8.14E-05	6.57E-05	5.91E-03	1.79E-02
3.83E-04	8.56E-03	3.06E-03	8.15E-05	5.90E-03	5.90E-03	2.39E-02	3.83E-04	8.56E-03	3.06E-03	8.15E-05	6.59E-05	5.90E-03	1.81E-02
3.88E-04	8.67E-03	3.07E-03	8.17E-05	5.89E-03	5.89E-03	2.40E-02	3.88E-04	8.67E-03	3.07E-03	8.17E-05	6.61E-05	5.89E-03	1.82E-02
3.94E-04	8.79E-03	3.08E-03	8.19E-05	5.89E-03	5.89E-03	2.41E-02	3.94E-04	8.79E-03	3.08E-03	8.19E-05	6.63E-05	5.89E-03	1.83E-02
3.99E-04	8.88E-03	3.08E-03	8.19E-05	5.87E-03	5.87E-03	2.42E-02	3.99E-04	8.88E-03	3.08E-03	8.19E-05	6.64E-05	5.87E-03	1.84E-02
4.04E-04	8.96E-03	3.09E-03	8.19E-05	5.84E-03	5.84E-03	2.42E-02	4.04E-04	8.96E-03	3.09E-03	8.19E-05	6.64E-05	5.84E-03	1.84E-02
4.10E-04	9.07E-03	3.09E-03	8.20E-05	5.82E-03	5.82E-03	2.43E-02	4.10E-04	9.07E-03	3.09E-03	8.20E-05	6.65E-05	5.82E-03	1.85E-02
4.16E-04	9.16E-03	3.10E-03	8.21E-05	5.80E-03	5.80E-03	2.44E-02	4.16E-04	9.16E-03	3.10E-03	8.21E-05	6.66E-05	5.80E-03	1.86E-02
3.53E-04	7.76E-03	2.96E-03	7.94E-05	5.52E-03	5.52E-03	2.22E-02	3.53E-04	7.76E-03	2.96E-03	7.94E-05	6.39E-05	5.52E-03	1.67E-02
3.57E-04	7.87E-03	2.97E-03	7.96E-05	5.53E-03	5.53E-03	2.23E-02	3.57E-04	7.87E-03	2.97E-03	7.96E-05	6.41E-05	5.53E-03	1.69E-02
3.61E-04	7.97E-03	2.98E-03	7.97E-05	5.54E-03	5.54E-03	2.25E-02	3.61E-04	7.97E-03	2.98E-03	7.97E-05	6.42E-05	5.54E-03	1.70E-02
3.66E-04	8.06E-03	2.98E-03	7.97E-05	5.53E-03	5.53E-03	2.26E-02	3.66E-04	8.06E-03	2.98E-03	7.97E-05	6.43E-05	5.53E-03	1.71E-02
3.70E-04	8.16E-03	2.99E-03	7.98E-05	5.53E-03	5.53E-03	2.27E-02	3.70E-04	8.16E-03	2.99E-03	7.98E-05	6.45E-05	5.53E-03	1.72E-02
3.74E-04	8.26E-03	2.99E-03	7.99E-05	5.53E-03	5.53E-03	2.28E-02	3.74E-04	8.26E-03	2.99E-03	7.99E-05	6.47E-05	5.53E-03	1.73E-02
3.79E-04	8.36E-03	3.00E-03	8.00E-05	5.52E-03	5.52E-03	2.29E-02	3.79E-04	8.36E-03	3.00E-03	8.00E-05	6.48E-05	5.52E-03	1.74E-02
3.84E-04	8.45E-03	3.01E-03	8.01E-05	5.52E-03	5.52E-03	2.30E-02	3.84E-04	8.45E-03	3.01E-03	8.01E-05	6.50E-05	5.52E-03	1.75E-02

3.89E-04	8.55E-03	3.01E-03	8.03E-05	5.51E-03	5.51E-03	2.31E-02	3.89E-04	8.55E-03	3.01E-03	8.03E-05	6.51E-05	5.51E-03	1.76E-02
3.94E-04	8.64E-03	3.02E-03	8.04E-05	5.49E-03	5.49E-03	2.31E-02	3.94E-04	8.64E-03	3.02E-03	8.04E-05	6.53E-05	5.49E-03	1.77E-02
3.99E-04	8.73E-03	3.03E-03	8.04E-05	5.48E-03	5.48E-03	2.32E-02	3.99E-04	8.73E-03	3.03E-03	8.04E-05	6.54E-05	5.48E-03	1.78E-02
4.05E-04	8.79E-03	3.03E-03	8.04E-05	5.45E-03	5.45E-03	2.32E-02	4.05E-04	8.79E-03	3.03E-03	8.04E-05	6.54E-05	5.45E-03	1.78E-02
3.46E-04	7.50E-03	2.89E-03	7.76E-05	5.12E-03	5.12E-03	2.11E-02	3.46E-04	7.50E-03	2.89E-03	7.76E-05	6.26E-05	5.12E-03	1.60E-02
3.49E-04	7.59E-03	2.90E-03	7.77E-05	5.13E-03	5.13E-03	2.12E-02	3.49E-04	7.59E-03	2.90E-03	7.77E-05	6.27E-05	5.13E-03	1.61E-02
3.53E-04	7.68E-03	2.90E-03	7.78E-05	5.14E-03	5.14E-03	2.13E-02	3.53E-04	7.68E-03	2.90E-03	7.78E-05	6.28E-05	5.14E-03	1.62E-02
3.57E-04	7.77E-03	2.91E-03	7.79E-05	5.14E-03	5.14E-03	2.14E-02	3.57E-04	7.77E-03	2.91E-03	7.79E-05	6.30E-05	5.14E-03	1.63E-02
3.62E-04	7.86E-03	2.92E-03	7.81E-05	5.15E-03	5.15E-03	2.15E-02	3.62E-04	7.86E-03	2.92E-03	7.81E-05	6.31E-05	5.15E-03	1.64E-02
3.66E-04	7.94E-03	2.92E-03	7.81E-05	5.14E-03	5.14E-03	2.16E-02	3.66E-04	7.94E-03	2.92E-03	7.81E-05	6.33E-05	5.14E-03	1.65E-02
3.50E-04	7.51E-03	2.85E-03	7.64E-05	4.85E-03	4.85E-03	2.05E-02	3.50E-04	7.51E-03	2.85E-03	7.64E-05	6.18E-05	4.85E-03	1.57E-02
3.53E-04	7.59E-03	2.86E-03	7.65E-05	4.85E-03	4.85E-03	2.06E-02	3.53E-04	7.59E-03	2.86E-03	7.65E-05	6.20E-05	4.85E-03	1.58E-02
3.31E-04	7.02E-03	2.77E-03	7.45E-05	4.55E-03	4.55E-03	1.93E-02	3.31E-04	7.02E-03	2.77E-03	7.45E-05	6.03E-05	4.55E-03	1.48E-02
3.35E-04	7.10E-03	2.78E-03	7.47E-05	4.56E-03	4.56E-03	1.94E-02	3.35E-04	7.10E-03	2.78E-03	7.47E-05	6.05E-05	4.56E-03	1.49E-02
3.38E-04	7.19E-03	2.79E-03	7.49E-05	4.58E-03	4.58E-03	1.96E-02	3.38E-04	7.19E-03	2.79E-03	7.49E-05	6.07E-05	4.58E-03	1.50E-02
3.42E-04	7.26E-03	2.79E-03	7.50E-05	4.58E-03	4.58E-03	1.96E-02	3.42E-04	7.26E-03	2.79E-03	7.50E-05	6.07E-05	4.58E-03	1.51E-02
3.46E-04	7.33E-03	2.80E-03	7.50E-05	4.58E-03	4.58E-03	1.97E-02	3.46E-04	7.33E-03	2.80E-03	7.50E-05	6.08E-05	4.58E-03	1.52E-02
3.25E-04	6.81E-03	2.72E-03	7.32E-05	4.31E-03	4.31E-03	1.85E-02	3.25E-04	6.81E-03	2.72E-03	7.32E-05	5.93E-05	4.31E-03	1.43E-02
3.28E-04	6.88E-03	2.73E-03	7.33E-05	4.32E-03	4.32E-03	1.87E-02	3.28E-04	6.88E-03	2.73E-03	7.33E-05	5.95E-05	4.32E-03	1.44E-02
3.32E-04	6.95E-03	2.73E-03	7.34E-05	4.33E-03	4.33E-03	1.88E-02	3.32E-04	6.95E-03	2.73E-03	7.34E-05	5.96E-05	4.33E-03	1.45E-02
3.35E-04	7.01E-03	2.74E-03	7.35E-05	4.34E-03	4.34E-03	1.88E-02	3.35E-04	7.01E-03	2.74E-03	7.35E-05	5.96E-05	4.34E-03	1.46E-02
3.38E-04	7.06E-03	2.74E-03	7.35E-05	4.34E-03	4.34E-03	1.89E-02	3.38E-04	7.06E-03	2.74E-03	7.35E-05	5.97E-05	4.34E-03	1.46E-02
3.18E-04	6.60E-03	2.67E-03	7.18E-05	4.10E-03	4.10E-03	1.78E-02	3.18E-04	6.60E-03	2.67E-03	7.18E-05	5.83E-05	4.10E-03	1.38E-02
3.22E-04	6.66E-03	2.67E-03	7.19E-05	4.10E-03	4.10E-03	1.79E-02	3.22E-04	6.66E-03	2.67E-03	7.19E-05	5.84E-05	4.10E-03	1.39E-02
3.25E-04	6.72E-03	2.68E-03	7.20E-05	4.11E-03	4.11E-03	1.80E-02	3.25E-04	6.72E-03	2.68E-03	7.20E-05	5.85E-05	4.11E-03	1.40E-02
3.28E-04	6.77E-03	2.68E-03	7.21E-05	4.11E-03	4.11E-03	1.81E-02	3.28E-04	6.77E-03	2.68E-03	7.21E-05	5.86E-05	4.11E-03	1.40E-02
3.32E-04	6.82E-03	2.68E-03	7.21E-05	4.11E-03	4.11E-03	1.81E-02	3.32E-04	6.82E-03	2.68E-03	7.21E-05	5.86E-05	4.11E-03	1.41E-02
3.19E-04	6.51E-03	2.63E-03	7.08E-05	3.91E-03	3.91E-03	1.74E-02	3.19E-04	6.51E-03	2.63E-03	7.08E-05	5.76E-05	3.91E-03	1.35E-02
3.22E-04	6.58E-03	2.63E-03	7.09E-05	3.92E-03	3.92E-03	1.74E-02	3.22E-04	6.58E-03	2.63E-03	7.09E-05	5.77E-05	3.92E-03	1.36E-02
3.26E-04	6.62E-03	2.64E-03	7.09E-05	3.93E-03	3.93E-03	1.75E-02	3.26E-04	6.62E-03	2.64E-03	7.09E-05	5.77E-05	3.93E-03	1.36E-02
3.79E-04	8.74E-03	3.28E-03	8.76E-05	8.00E-03	8.00E-03	2.85E-02	3.79E-04	8.74E-03	3.28E-03	8.76E-05	7.00E-05	8.00E-03	2.06E-02
3.83E-04	8.85E-03	3.28E-03	8.76E-05	7.97E-03	7.97E-03	2.85E-02	3.83E-04	8.85E-03	3.28E-03	8.76E-05	7.00E-05	7.97E-03	2.06E-02
3.87E-04	8.97E-03	3.28E-03	8.76E-05	7.95E-03	7.95E-03	2.86E-02	3.87E-04	8.97E-03	3.28E-03	8.76E-05	7.01E-05	7.95E-03	2.07E-02
3.71E-04	8.48E-03	3.21E-03	8.59E-05	7.33E-03	7.33E-03	2.68E-02	3.71E-04	8.48E-03	3.21E-03	8.59E-05	6.87E-05	7.33E-03	1.95E-02
3.74E-04	8.57E-03	3.21E-03	8.58E-05	7.31E-03	7.31E-03	2.69E-02	3.74E-04	8.57E-03	3.21E-03	8.58E-05	6.87E-05	7.31E-03	1.96E-02
3.79E-04	8.69E-03	3.21E-03	8.59E-05	7.30E-03	7.30E-03	2.70E-02	3.79E-04	8.69E-03	3.21E-03	8.59E-05	6.87E-05	7.30E-03	1.97E-02
3.63E-04	8.21E-03	3.14E-03	8.41E-05	6.75E-03	6.75E-03	2.53E-02	3.63E-04	8.21E-03	3.14E-03	8.41E-05	6.73E-05	6.75E-03	1.86E-02
3.67E-04	8.33E-03	3.14E-03	8.42E-05	6.75E-03	6.75E-03	2.54E-02	3.67E-04	8.33E-03	3.14E-03	8.42E-05	6.74E-05	6.75E-03	1.87E-02
3.71E-04	8.44E-03	3.15E-03	8.43E-05	6.75E-03	6.75E-03	2.55E-02	3.71E-04	8.44E-03	3.15E-03	8.43E-05	6.76E-05	6.75E-03	1.89E-02
3.59E-04	8.09E-03	3.08E-03	8.26E-05	6.27E-03	6.27E-03	2.41E-02	3.59E-04	8.09E-03	3.08E-03	8.26E-05	6.63E-05	6.27E-03	1.79E-02
3.63E-04	8.17E-03	3.08E-03	8.26E-05	6.26E-03	6.26E-03	2.42E-02	3.63E-04	8.17E-03	3.08E-03	8.26E-05	6.63E-05	6.26E-03	1.80E-02
3.51E-04	7.78E-03	3.00E-03	8.06E-05	5.80E-03	5.80E-03	2.28E-02	3.51E-04	7.78E-03	3.00E-03	8.06E-05	6.48E-05	5.80E-03	1.71E-02
3.54E-04	7.87E-03	3.01E-03	8.06E-05	5.80E-03	5.80E-03	2.29E-02	3.54E-04	7.87E-03	3.01E-03	8.06E-05	6.48E-05	5.80E-03	1.72E-02
3.43E-04	7.48E-03	2.93E-03	7.86E-05	5.39E-03	5.39E-03	2.16E-02	3.43E-04	7.48E-03	2.93E-03	7.86E-05	6.33E-05	5.39E-03	1.63E-02
3.46E-04	7.58E-03	2.93E-03	7.87E-05	5.40E-03	5.40E-03	2.17E-02	3.46E-04	7.58E-03	2.93E-03	7.87E-05	6.34E-05	5.40E-03	1.64E-02
3.60E-04	8.13E-03	3.14E-03	8.41E-05	6.81E-03	6.81E-03	2.53E-02	3.60E-04	8.13E-03	3.14E-03	8.41E-05	6.73E-05	6.81E-03	1.86E-02
3.36E-04	7.25E-03	2.87E-03	7.70E-05	5.06E-03	5.06E-03	2.06E-02	3.36E-04	7.25E-03	2.87E-03	7.70E-05	6.21E-05	5.06E-03	1.56E-02
3.39E-04	7.34E-03	2.87E-03	7.72E-05	5.07E-03	5.07E-03	2.08E-02	3.39E-04	7.34E-03	2.87E-03	7.72E-05	6.23E-05	5.07E-03	1.58E-02
3.47E-04	7.84E-03	3.27E-03	8.76E-05	8.22E-03	8.22E-03	2.80E-02	3.47E-04	7.84E-03	3.27E-03	8.76E-05	6.93E-05	8.22E-03	1.98E-02
3.51E-04	7.98E-03	3.28E-03	8.79E-05	8.26E-03	8.26E-03	2.82E-02	3.51E-04	7.98E-03	3.28E-03	8.79E-05	6.98E-05	8.26E-03	2.00E-02
3.42E-04	7.76E-03	3.25E-03	8.72E-05	7.59E-03	7.59E-03	2.66E-02	3.42E-04	7.76E-03	3.25E-03	8.72E-05	6.90E-05	7.59E-03	1.91E-02
3.44E-04	7.82E-03	3.23E-03	8.67E-05	7.60E-03	7.60E-03	2.67E-02	3.44E-04	7.82E-03	3.23E-03	8.67E-05	6.88E-05	7.60E-03	1.91E-02
3.48E-04	7.97E-03	3.25E-03	8.72E-05	7.62E-03	7.62E-03	2.69E-02	3.48E-04	7.97E-03	3.25E-03	8.72E-05	6.93E-05	7.62E-03	1.93E-02
3.28E-04	7.28E-03	3.15E-03	8.47E-05	6.89E-03	6.89E-03	2.46E-02	3.28E-04	7.28E-03	3.15E-03	8.47E-05	6.66E-05	6.89E-03	1.78E-02

3.32E-04	7.40E-03	3.16E-03	8.50E-05	6.92E-03	6.92E-03	2.48E-02	3.32E-04	7.40E-03	3.16E-03	8.50E-05	6.71E-05	6.92E-03	1.80E-02
3.34E-04	7.41E-03	3.13E-03	8.40E-05	6.87E-03	6.87E-03	2.47E-02	3.34E-04	7.41E-03	3.13E-03	8.40E-05	6.65E-05	6.87E-03	1.79E-02
3.37E-04	7.47E-03	3.12E-03	8.37E-05	6.85E-03	6.85E-03	2.47E-02	3.37E-04	7.47E-03	3.12E-03	8.37E-05	6.65E-05	6.85E-03	1.79E-02
3.40E-04	7.58E-03	3.13E-03	8.38E-05	6.87E-03	6.87E-03	2.49E-02	3.40E-04	7.58E-03	3.13E-03	8.38E-05	6.68E-05	6.87E-03	1.81E-02
3.21E-04	6.95E-03	3.03E-03	8.17E-05	6.23E-03	6.23E-03	2.28E-02	3.21E-04	6.95E-03	3.03E-03	8.17E-05	6.44E-05	6.23E-03	1.67E-02
3.24E-04	7.03E-03	3.03E-03	8.15E-05	6.23E-03	6.23E-03	2.29E-02	3.24E-04	7.03E-03	3.03E-03	8.15E-05	6.45E-05	6.23E-03	1.68E-02
3.36E-04	7.37E-03	3.00E-03	8.06E-05	5.96E-03	5.96E-03	2.27E-02	3.36E-04	7.37E-03	3.00E-03	8.06E-05	6.46E-05	5.96E-03	1.68E-02
3.39E-04	7.45E-03	3.01E-03	8.07E-05	5.97E-03	5.97E-03	2.28E-02	3.39E-04	7.45E-03	3.01E-03	8.07E-05	6.47E-05	5.97E-03	1.69E-02
3.15E-04	6.78E-03	2.97E-03	8.01E-05	5.78E-03	5.78E-03	2.17E-02	3.15E-04	6.78E-03	2.97E-03	8.01E-05	6.31E-05	5.78E-03	1.60E-02
3.18E-04	6.82E-03	2.96E-03	7.97E-05	5.75E-03	5.75E-03	2.17E-02	3.18E-04	6.82E-03	2.96E-03	7.97E-05	6.30E-05	5.75E-03	1.60E-02
3.29E-04	7.19E-03	2.95E-03	7.92E-05	5.57E-03	5.57E-03	2.17E-02	3.29E-04	7.19E-03	2.95E-03	7.92E-05	6.35E-05	5.57E-03	1.62E-02
3.32E-04	7.24E-03	2.94E-03	7.91E-05	5.56E-03	5.56E-03	2.17E-02	3.32E-04	7.24E-03	2.94E-03	7.91E-05	6.35E-05	5.56E-03	1.62E-02
3.10E-04	6.62E-03	2.91E-03	7.86E-05	5.39E-03	5.39E-03	2.07E-02	3.10E-04	6.62E-03	2.91E-03	7.86E-05	6.20E-05	5.39E-03	1.54E-02
3.12E-04	6.65E-03	2.90E-03	7.82E-05	5.36E-03	5.36E-03	2.07E-02	3.12E-04	6.65E-03	2.90E-03	7.82E-05	6.19E-05	5.36E-03	1.54E-02
3.03E-04	6.44E-03	2.85E-03	7.70E-05	5.03E-03	5.03E-03	1.97E-02	3.03E-04	6.44E-03	2.85E-03	7.70E-05	6.07E-05	5.03E-03	1.48E-02
3.06E-04	6.49E-03	2.84E-03	7.67E-05	5.02E-03	5.02E-03	1.98E-02	3.06E-04	6.49E-03	2.84E-03	7.67E-05	6.07E-05	5.02E-03	1.48E-02
2.50E-03	6.78E-02	4.80E-03	1.27E-04	1.19E-02	1.19E-02	9.90E-02	2.50E-03	6.78E-02	4.80E-03	1.27E-04	9.90E-05	1.19E-02	8.73E-02
2.82E-03	7.44E-02	4.81E-03	1.27E-04	1.16E-02	1.16E-02	1.05E-01	2.82E-03	7.44E-02	4.81E-03	1.27E-04	9.84E-05	1.16E-02	9.39E-02
3.27E-03	8.27E-02	4.83E-03	1.27E-04	1.14E-02	1.14E-02	1.14E-01	3.27E-03	8.27E-02	4.83E-03	1.27E-04	9.78E-05	1.14E-02	1.02E-01
3.90E-03	9.30E-02	4.84E-03	1.27E-04	1.12E-02	1.12E-02	1.24E-01	3.90E-03	9.30E-02	4.84E-03	1.27E-04	9.72E-05	1.12E-02	1.13E-01
2.11E-03	5.88E-02	4.64E-03	1.24E-04	1.17E-02	1.17E-02	8.90E-02	2.11E-03	5.88E-02	4.64E-03	1.24E-04	9.75E-05	1.17E-02	7.74E-02
2.34E-03	6.46E-02	4.66E-03	1.24E-04	1.14E-02	1.14E-02	9.45E-02	2.34E-03	6.46E-02	4.66E-03	1.24E-04	9.70E-05	1.14E-02	8.32E-02
2.63E-03	7.02E-02	4.66E-03	1.23E-04	1.12E-02	1.12E-02	1.00E-01	2.63E-03	7.02E-02	4.66E-03	1.23E-04	9.62E-05	1.12E-02	8.89E-02
3.03E-03	7.71E-02	4.67E-03	1.23E-04	1.10E-02	1.10E-02	1.07E-01	3.03E-03	7.71E-02	4.67E-03	1.23E-04	9.55E-05	1.10E-02	9.60E-02
1.83E-03	5.17E-02	4.49E-03	1.21E-04	1.14E-02	1.14E-02	8.10E-02	1.83E-03	5.17E-02	4.49E-03	1.21E-04	9.60E-05	1.14E-02	6.97E-02
2.00E-03	5.61E-02	4.50E-03	1.21E-04	1.12E-02	1.12E-02	8.51E-02	2.00E-03	5.61E-02	4.50E-03	1.21E-04	9.55E-05	1.12E-02	7.40E-02
2.21E-03	6.06E-02	4.51E-03	1.20E-04	1.09E-02	1.09E-02	8.93E-02	2.21E-03	6.06E-02	4.51E-03	1.20E-04	9.47E-05	1.09E-02	7.85E-02
2.48E-03	6.59E-02	4.52E-03	1.20E-04	1.07E-02	1.07E-02	9.44E-02	2.48E-03	6.59E-02	4.52E-03	1.20E-04	9.41E-05	1.07E-02	8.38E-02
1.61E-03	4.59E-02	4.36E-03	1.18E-04	1.11E-02	1.11E-02	7.42E-02	1.61E-03	4.59E-02	4.36E-03	1.18E-04	9.46E-05	1.11E-02	6.32E-02
1.74E-03	4.88E-02	4.36E-03	1.18E-04	1.09E-02	1.09E-02	7.68E-02	1.74E-03	4.88E-02	4.36E-03	1.18E-04	9.39E-05	1.09E-02	6.60E-02
1.90E-03	5.23E-02	4.36E-03	1.17E-04	1.07E-02	1.07E-02	8.00E-02	1.90E-03	5.23E-02	4.36E-03	1.17E-04	9.31E-05	1.07E-02	6.94E-02
2.10E-03	5.64E-02	4.37E-03	1.17E-04	1.05E-02	1.05E-02	8.39E-02	2.10E-03	5.64E-02	4.37E-03	1.17E-04	9.25E-05	1.05E-02	7.35E-02
1.60E-03	4.88E-02	5.65E-03	1.59E-04	1.82E-02	1.82E-02	9.27E-02	1.60E-03	4.88E-02	5.65E-03	1.59E-04	1.23E-04	1.82E-02	7.46E-02
1.70E-03	5.16E-02	5.63E-03	1.58E-04	1.78E-02	1.78E-02	9.47E-02	1.70E-03	5.16E-02	5.63E-03	1.58E-04	1.22E-04	1.78E-02	7.70E-02
1.81E-03	5.46E-02	5.62E-03	1.57E-04	1.74E-02	1.74E-02	9.71E-02	1.81E-03	5.46E-02	5.62E-03	1.57E-04	1.21E-04	1.74E-02	7.98E-02
1.95E-03	5.80E-02	5.61E-03	1.56E-04	1.70E-02	1.70E-02	9.98E-02	1.95E-03	5.80E-02	5.61E-03	1.56E-04	1.20E-04	1.70E-02	8.29E-02
2.10E-03	6.15E-02	5.60E-03	1.55E-04	1.67E-02	1.67E-02	1.03E-01	2.10E-03	6.15E-02	5.60E-03	1.55E-04	1.19E-04	1.67E-02	8.62E-02
2.27E-03	6.54E-02	5.60E-03	1.54E-04	1.63E-02	1.63E-02	1.06E-01	2.27E-03	6.54E-02	5.60E-03	1.54E-04	1.18E-04	1.63E-02	8.98E-02
2.48E-03	7.00E-02	5.61E-03	1.53E-04	1.60E-02	1.60E-02	1.10E-01	2.48E-03	7.00E-02	5.61E-03	1.53E-04	1.17E-04	1.60E-02	9.43E-02
2.74E-03	7.50E-02	5.62E-03	1.52E-04	1.56E-02	1.56E-02	1.15E-01	2.74E-03	7.50E-02	5.62E-03	1.52E-04	1.16E-04	1.56E-02	9.93E-02
3.05E-03	8.12E-02	5.63E-03	1.52E-04	1.53E-02	1.53E-02	1.21E-01	3.05E-03	8.12E-02	5.63E-03	1.52E-04	1.15E-04	1.53E-02	1.05E-01
3.48E-03	9.01E-02	5.66E-03	1.52E-04	1.50E-02	1.50E-02	1.29E-01	3.48E-03	9.01E-02	5.66E-03	1.52E-04	1.14E-04	1.50E-02	1.14E-01
4.05E-03	1.02E-01	5.70E-03	1.52E-04	1.46E-02	1.46E-02	1.41E-01	4.05E-03	1.02E-01	5.70E-03	1.52E-04	1.14E-04	1.46E-02	1.26E-01
4.78E-03	1.14E-01	5.72E-03	1.52E-04	1.43E-02	1.43E-02	1.53E-01	4.78E-03	1.14E-01	5.72E-03	1.52E-04	1.13E-04	1.43E-02	1.39E-01
5.91E-03	1.33E-01	5.77E-03	1.52E-04	1.40E-02	1.40E-02	1.73E-01	5.91E-03	1.33E-01	5.77E-03	1.52E-04	1.13E-04	1.40E-02	1.59E-01
7.52E-03	1.57E-01	5.80E-03	1.52E-04	1.37E-02	1.37E-02	1.98E-01	7.52E-03	1.57E-01	5.80E-03	1.52E-04	1.13E-04	1.37E-02	1.84E-01
1.40E-03	4.33E-02	5.50E-03	1.55E-04	1.82E-02	1.82E-02	8.68E-02	1.40E-03	4.33E-02	5.50E-03	1.55E-04	1.20E-04	1.82E-02	6.87E-02
1.48E-03	4.54E-02	5.47E-03	1.54E-04	1.78E-02	1.78E-02	8.81E-02	1.48E-03	4.54E-02	5.47E-03	1.54E-04	1.20E-04	1.78E-02	7.05E-02
1.56E-03	4.79E-02	5.45E-03	1.53E-04	1.74E-02	1.74E-02	8.99E-02	1.56E-03	4.79E-02	5.45E-03	1.53E-04	1.19E-04	1.74E-02	7.26E-02
1.66E-03	5.07E-02	5.44E-03	1.52E-04	1.70E-02	1.70E-02	9.20E-02	1.66E-03	5.07E-02	5.44E-03	1.52E-04	1.18E-04	1.70E-02	7.51E-02
1.76E-03	5.35E-02	5.43E-03	1.51E-04	1.66E-02	1.66E-02	9.40E-02	1.76E-03	5.35E-02	5.43E-03	1.51E-04	1.17E-04	1.66E-02	7.75E-02
1.88E-03	5.64E-02	5.42E-03	1.50E-04	1.62E-02	1.62E-02	9.63E-02	1.88E-03	5.64E-02	5.42E-03	1.50E-04	1.16E-04	1.62E-02	8.02E-02
2.02E-03	5.92E-02	5.41E-03	1.49E-04	1.59E-02	1.59E-02	9.86E-02	2.02E-03	5.92E-02	5.41E-03	1.49E-04	1.15E-04	1.59E-02	8.28E-02
2.18E-03	6.27E-02	5.41E-03	1.48E-04	1.55E-02	1.55E-02	1.02E-01	2.18E-03	6.27E-02	5.41E-03	1.48E-04	1.14E-04	1.55E-02	8.61E-02

2.37E-03	6.69E-02	5.42E-03	1.47E-04	1.52E-02	1.52E-02	1.05E-01	2.37E-03	6.69E-02	5.42E-03	1.47E-04	1.13E-04	1.52E-02	9.02E-02
2.61E-03	7.23E-02	5.44E-03	1.47E-04	1.49E-02	1.49E-02	1.10E-01	2.61E-03	7.23E-02	5.44E-03	1.47E-04	1.12E-04	1.49E-02	9.55E-02
2.91E-03	7.91E-02	5.46E-03	1.47E-04	1.46E-02	1.46E-02	1.17E-01	2.91E-03	7.91E-02	5.46E-03	1.47E-04	1.12E-04	1.46E-02	1.02E-01
3.29E-03	8.75E-02	5.50E-03	1.47E-04	1.42E-02	1.42E-02	1.25E-01	3.29E-03	8.75E-02	5.50E-03	1.47E-04	1.11E-04	1.42E-02	1.11E-01
3.81E-03	9.92E-02	5.54E-03	1.47E-04	1.39E-02	1.39E-02	1.36E-01	3.81E-03	9.92E-02	5.54E-03	1.47E-04	1.11E-04	1.39E-02	1.23E-01
4.44E-03	1.10E-01	5.56E-03	1.47E-04	1.36E-02	1.36E-02	1.48E-01	4.44E-03	1.10E-01	5.56E-03	1.47E-04	1.10E-04	1.36E-02	1.34E-01
5.33E-03	1.24E-01	5.58E-03	1.47E-04	1.33E-02	1.33E-02	1.62E-01	5.33E-03	1.24E-01	5.58E-03	1.47E-04	1.10E-04	1.33E-02	1.49E-01
1.25E-03	3.89E-02	5.36E-03	1.51E-04	1.82E-02	1.82E-02	8.21E-02	1.25E-03	3.89E-02	5.36E-03	1.51E-04	1.18E-04	1.82E-02	6.40E-02
1.31E-03	4.06E-02	5.33E-03	1.50E-04	1.78E-02	1.78E-02	8.30E-02	1.31E-03	4.06E-02	5.33E-03	1.50E-04	1.17E-04	1.78E-02	6.53E-02
1.38E-03	4.25E-02	5.30E-03	1.49E-04	1.74E-02	1.74E-02	8.41E-02	1.38E-03	4.25E-02	5.30E-03	1.49E-04	1.17E-04	1.74E-02	6.68E-02
1.45E-03	4.46E-02	5.28E-03	1.48E-04	1.69E-02	1.69E-02	8.54E-02	1.45E-03	4.46E-02	5.28E-03	1.48E-04	1.16E-04	1.69E-02	6.86E-02
1.53E-03	4.68E-02	5.26E-03	1.47E-04	1.66E-02	1.66E-02	8.68E-02	1.53E-03	4.68E-02	5.26E-03	1.47E-04	1.15E-04	1.66E-02	7.04E-02
1.62E-03	4.93E-02	5.25E-03	1.46E-04	1.62E-02	1.62E-02	8.87E-02	1.62E-03	4.93E-02	5.25E-03	1.46E-04	1.15E-04	1.62E-02	7.26E-02
1.71E-03	5.15E-02	5.24E-03	1.45E-04	1.58E-02	1.58E-02	9.02E-02	1.71E-03	5.15E-02	5.24E-03	1.45E-04	1.13E-04	1.58E-02	7.45E-02
1.82E-03	5.41E-02	5.23E-03	1.44E-04	1.54E-02	1.54E-02	9.22E-02	1.82E-03	5.41E-02	5.23E-03	1.44E-04	1.12E-04	1.54E-02	7.69E-02
1.95E-03	5.71E-02	5.23E-03	1.43E-04	1.51E-02	1.51E-02	9.47E-02	1.95E-03	5.71E-02	5.23E-03	1.43E-04	1.11E-04	1.51E-02	7.97E-02
2.10E-03	6.09E-02	5.24E-03	1.43E-04	1.48E-02	1.48E-02	9.79E-02	2.10E-03	6.09E-02	5.24E-03	1.43E-04	1.11E-04	1.48E-02	8.33E-02
2.29E-03	6.52E-02	5.26E-03	1.42E-04	1.44E-02	1.44E-02	1.02E-01	2.29E-03	6.52E-02	5.26E-03	1.42E-04	1.10E-04	1.44E-02	8.74E-02
2.50E-03	6.97E-02	5.27E-03	1.42E-04	1.41E-02	1.41E-02	1.06E-01	2.50E-03	6.97E-02	5.27E-03	1.42E-04	1.09E-04	1.41E-02	9.18E-02
2.78E-03	7.61E-02	5.29E-03	1.41E-04	1.38E-02	1.38E-02	1.12E-01	2.78E-03	7.61E-02	5.29E-03	1.41E-04	1.08E-04	1.38E-02	9.82E-02
3.15E-03	8.52E-02	5.34E-03	1.42E-04	1.35E-02	1.35E-02	1.21E-01	3.15E-03	8.52E-02	5.34E-03	1.42E-04	1.08E-04	1.35E-02	1.07E-01
3.58E-03	9.36E-02	5.36E-03	1.42E-04	1.32E-02	1.32E-02	1.29E-01	3.58E-03	9.36E-02	5.36E-03	1.42E-04	1.07E-04	1.32E-02	1.16E-01
4.15E-03	1.04E-01	5.38E-03	1.42E-04	1.30E-02	1.30E-02	1.39E-01	4.15E-03	1.04E-01	5.38E-03	1.42E-04	1.07E-04	1.30E-02	1.26E-01
1.14E-03	3.55E-02	5.25E-03	1.48E-04	1.81E-02	1.81E-02	7.83E-02	1.14E-03	3.55E-02	5.25E-03	1.48E-04	1.16E-04	1.81E-02	6.03E-02
1.18E-03	3.66E-02	5.20E-03	1.46E-04	1.77E-02	1.77E-02	7.87E-02	1.18E-03	3.66E-02	5.20E-03	1.46E-04	1.15E-04	1.77E-02	6.10E-02
1.24E-03	3.84E-02	5.18E-03	1.46E-04	1.73E-02	1.73E-02	7.95E-02	1.24E-03	3.84E-02	5.18E-03	1.46E-04	1.15E-04	1.73E-02	6.24E-02
1.29E-03	4.00E-02	5.15E-03	1.45E-04	1.69E-02	1.69E-02	8.04E-02	1.29E-03	4.00E-02	5.15E-03	1.45E-04	1.14E-04	1.69E-02	6.36E-02
1.35E-03	4.18E-02	5.12E-03	1.44E-04	1.65E-02	1.65E-02	8.13E-02	1.35E-03	4.18E-02	5.12E-03	1.44E-04	1.13E-04	1.65E-02	6.50E-02
1.42E-03	4.36E-02	5.10E-03	1.43E-04	1.61E-02	1.61E-02	8.24E-02	1.42E-03	4.36E-02	5.10E-03	1.43E-04	1.13E-04	1.61E-02	6.64E-02
1.49E-03	4.55E-02	5.09E-03	1.42E-04	1.57E-02	1.57E-02	8.36E-02	1.49E-03	4.55E-02	5.09E-03	1.42E-04	1.12E-04	1.57E-02	6.80E-02
1.57E-03	4.76E-02	5.07E-03	1.41E-04	1.53E-02	1.53E-02	8.50E-02	1.57E-03	4.76E-02	5.07E-03	1.41E-04	1.11E-04	1.53E-02	6.98E-02
1.66E-03	4.98E-02	5.06E-03	1.40E-04	1.50E-02	1.50E-02	8.66E-02	1.66E-03	4.98E-02	5.06E-03	1.40E-04	1.10E-04	1.50E-02	7.17E-02
1.77E-03	5.26E-02	5.07E-03	1.39E-04	1.46E-02	1.46E-02	8.88E-02	1.77E-03	5.26E-02	5.07E-03	1.39E-04	1.09E-04	1.46E-02	7.43E-02
1.90E-03	5.58E-02	5.07E-03	1.38E-04	1.43E-02	1.43E-02	9.15E-02	1.90E-03	5.58E-02	5.07E-03	1.38E-04	1.08E-04	1.43E-02	7.73E-02
2.04E-03	5.91E-02	5.08E-03	1.37E-04	1.40E-02	1.40E-02	9.43E-02	2.04E-03	5.91E-02	5.08E-03	1.37E-04	1.07E-04	1.40E-02	8.05E-02
2.22E-03	6.35E-02	5.09E-03	1.37E-04	1.37E-02	1.37E-02	9.83E-02	2.22E-03	6.35E-02	5.09E-03	1.37E-04	1.06E-04	1.37E-02	8.47E-02
2.44E-03	6.89E-02	5.12E-03	1.37E-04	1.34E-02	1.34E-02	1.03E-01	2.44E-03	6.89E-02	5.12E-03	1.37E-04	1.06E-04	1.34E-02	9.01E-02
2.71E-03	7.52E-02	5.14E-03	1.37E-04	1.31E-02	1.31E-02	1.09E-01	2.71E-03	7.52E-02	5.14E-03	1.37E-04	1.05E-04	1.31E-02	9.64E-02
3.04E-03	8.19E-02	5.16E-03	1.37E-04	1.28E-02	1.28E-02	1.16E-01	3.04E-03	8.19E-02	5.16E-03	1.37E-04	1.05E-04	1.28E-02	1.03E-01
1.04E-03	3.19E-02	5.11E-03	1.43E-04	1.82E-02	1.82E-02	7.46E-02	1.04E-03	3.19E-02	5.11E-03	1.43E-04	1.12E-04	1.82E-02	5.65E-02
1.08E-03	3.33E-02	5.08E-03	1.42E-04	1.77E-02	1.77E-02	7.49E-02	1.08E-03	3.33E-02	5.08E-03	1.42E-04	1.12E-04	1.77E-02	5.74E-02
1.12E-03	3.47E-02	5.05E-03	1.42E-04	1.72E-02	1.72E-02	7.55E-02	1.12E-03	3.47E-02	5.05E-03	1.42E-04	1.12E-04	1.72E-02	5.83E-02
1.17E-03	3.61E-02	5.02E-03	1.41E-04	1.68E-02	1.68E-02	7.59E-02	1.17E-03	3.61E-02	5.02E-03	1.41E-04	1.12E-04	1.68E-02	5.93E-02
1.22E-03	3.76E-02	4.99E-03	1.40E-04	1.63E-02	1.63E-02	7.66E-02	1.22E-03	3.76E-02	4.99E-03	1.40E-04	1.11E-04	1.63E-02	6.04E-02
1.27E-03	3.91E-02	4.97E-03	1.39E-04	1.59E-02	1.59E-02	7.74E-02	1.27E-03	3.91E-02	4.97E-03	1.39E-04	1.11E-04	1.59E-02	6.16E-02
1.33E-03	4.07E-02	4.95E-03	1.38E-04	1.55E-02	1.55E-02	7.82E-02	1.33E-03	4.07E-02	4.95E-03	1.38E-04	1.10E-04	1.55E-02	6.28E-02
1.39E-03	4.23E-02	4.93E-03	1.37E-04	1.52E-02	1.52E-02	7.91E-02	1.39E-03	4.23E-02	4.93E-03	1.37E-04	1.09E-04	1.52E-02	6.41E-02
1.46E-03	4.42E-02	4.91E-03	1.36E-04	1.48E-02	1.48E-02	8.03E-02	1.46E-03	4.42E-02	4.91E-03	1.36E-04	1.08E-04	1.48E-02	6.56E-02
1.54E-03	4.64E-02	4.91E-03	1.36E-04	1.45E-02	1.45E-02	8.20E-02	1.54E-03	4.64E-02	4.91E-03	1.36E-04	1.07E-04	1.45E-02	6.76E-02
1.64E-03	4.88E-02	4.91E-03	1.35E-04	1.41E-02	1.41E-02	8.38E-02	1.64E-03	4.88E-02	4.91E-03	1.35E-04	1.06E-04	1.41E-02	6.97E-02
1.74E-03	5.15E-02	4.91E-03	1.34E-04	1.38E-02	1.38E-02	8.59E-02	1.74E-03	5.15E-02	4.91E-03	1.34E-04	1.05E-04	1.38E-02	7.22E-02
1.87E-03	5.44E-02	4.91E-03	1.33E-04	1.35E-02	1.35E-02	8.83E-02	1.87E-03	5.44E-02	4.91E-03	1.33E-04	1.05E-04	1.35E-02	7.49E-02
2.02E-03	5.81E-02	4.92E-03	1.33E-04	1.32E-02	1.32E-02	9.16E-02	2.02E-03	5.81E-02	4.92E-03	1.33E-04	1.04E-04	1.32E-02	7.85E-02
2.20E-03	6.28E-02	4.95E-03	1.33E-04	1.29E-02	1.29E-02	9.60E-02	2.20E-03	6.28E-02	4.95E-03	1.33E-04	1.03E-04	1.29E-02	8.31E-02

2.41E-03	6.76E-02	4.96E-03	1.32E-04	1.27E-02	1.27E-02	1.00E-01	2.41E-03	6.76E-02	4.96E-03	1.32E-04	1.03E-04	1.27E-02	8.79E-02
9.55E-04	2.92E-02	4.99E-03	1.39E-04	1.81E-02	1.81E-02	7.15E-02	9.55E-04	2.92E-02	4.99E-03	1.39E-04	1.09E-04	1.81E-02	5.35E-02
9.90E-04	3.04E-02	4.96E-03	1.39E-04	1.76E-02	1.76E-02	7.17E-02	9.90E-04	3.04E-02	4.96E-03	1.39E-04	1.10E-04	1.76E-02	5.42E-02
1.03E-03	3.17E-02	4.94E-03	1.38E-04	1.71E-02	1.71E-02	7.19E-02	1.03E-03	3.17E-02	4.94E-03	1.38E-04	1.10E-04	1.71E-02	5.49E-02
1.07E-03	3.28E-02	4.90E-03	1.38E-04	1.66E-02	1.66E-02	7.22E-02	1.07E-03	3.28E-02	4.90E-03	1.38E-04	1.09E-04	1.66E-02	5.57E-02
1.11E-03	3.41E-02	4.87E-03	1.37E-04	1.62E-02	1.62E-02	7.25E-02	1.11E-03	3.41E-02	4.87E-03	1.37E-04	1.09E-04	1.62E-02	5.65E-02
1.15E-03	3.54E-02	4.85E-03	1.36E-04	1.58E-02	1.58E-02	7.30E-02	1.15E-03	3.54E-02	4.85E-03	1.36E-04	1.08E-04	1.58E-02	5.74E-02
1.20E-03	3.67E-02	4.82E-03	1.35E-04	1.54E-02	1.54E-02	7.36E-02	1.20E-03	3.67E-02	4.82E-03	1.35E-04	1.08E-04	1.54E-02	5.83E-02
1.25E-03	3.82E-02	4.80E-03	1.34E-04	1.50E-02	1.50E-02	7.43E-02	1.25E-03	3.82E-02	4.80E-03	1.34E-04	1.07E-04	1.50E-02	5.94E-02
1.31E-03	3.97E-02	4.78E-03	1.33E-04	1.46E-02	1.46E-02	7.51E-02	1.31E-03	3.97E-02	4.78E-03	1.33E-04	1.06E-04	1.46E-02	6.06E-02
1.37E-03	4.14E-02	4.77E-03	1.32E-04	1.43E-02	1.43E-02	7.62E-02	1.37E-03	4.14E-02	4.77E-03	1.32E-04	1.06E-04	1.43E-02	6.21E-02
1.45E-03	4.35E-02	4.76E-03	1.32E-04	1.39E-02	1.39E-02	7.77E-02	1.45E-03	4.35E-02	4.76E-03	1.32E-04	1.05E-04	1.39E-02	6.39E-02
1.53E-03	4.56E-02	4.76E-03	1.31E-04	1.36E-02	1.36E-02	7.92E-02	1.53E-03	4.56E-02	4.76E-03	1.31E-04	1.04E-04	1.36E-02	6.57E-02
1.62E-03	4.81E-02	4.76E-03	1.30E-04	1.33E-02	1.33E-02	8.12E-02	1.62E-03	4.81E-02	4.76E-03	1.30E-04	1.03E-04	1.33E-02	6.80E-02
1.73E-03	5.06E-02	4.76E-03	1.29E-04	1.30E-02	1.30E-02	8.32E-02	1.73E-03	5.06E-02	4.76E-03	1.29E-04	1.02E-04	1.30E-02	7.03E-02
1.86E-03	5.40E-02	4.77E-03	1.29E-04	1.27E-02	1.27E-02	8.61E-02	1.86E-03	5.40E-02	4.77E-03	1.29E-04	1.01E-04	1.27E-02	7.35E-02
2.02E-03	5.78E-02	4.78E-03	1.28E-04	1.24E-02	1.24E-02	8.96E-02	2.02E-03	5.78E-02	4.78E-03	1.28E-04	1.01E-04	1.24E-02	7.73E-02
8.88E-04	2.69E-02	4.88E-03	1.35E-04	1.80E-02	1.80E-02	6.87E-02	8.88E-04	2.69E-02	4.88E-03	1.35E-04	1.07E-04	1.80E-02	5.09E-02
9.18E-04	2.79E-02	4.86E-03	1.35E-04	1.74E-02	1.74E-02	6.87E-02	9.18E-04	2.79E-02	4.86E-03	1.35E-04	1.07E-04	1.74E-02	5.14E-02
9.50E-04	2.90E-02	4.83E-03	1.35E-04	1.69E-02	1.69E-02	6.87E-02	9.50E-04	2.90E-02	4.83E-03	1.35E-04	1.07E-04	1.69E-02	5.19E-02
9.83E-04	3.00E-02	4.80E-03	1.34E-04	1.64E-02	1.64E-02	6.88E-02	9.83E-04	3.00E-02	4.80E-03	1.34E-04	1.07E-04	1.64E-02	5.25E-02
1.02E-03	3.11E-02	4.77E-03	1.34E-04	1.59E-02	1.59E-02	6.89E-02	1.02E-03	3.11E-02	4.77E-03	1.34E-04	1.07E-04	1.59E-02	5.31E-02
1.06E-03	3.23E-02	4.74E-03	1.33E-04	1.55E-02	1.55E-02	6.92E-02	1.06E-03	3.23E-02	4.74E-03	1.33E-04	1.06E-04	1.55E-02	5.38E-02
1.10E-03	3.34E-02	4.71E-03	1.32E-04	1.51E-02	1.51E-02	6.96E-02	1.10E-03	3.34E-02	4.71E-03	1.32E-04	1.06E-04	1.51E-02	5.46E-02
1.14E-03	3.47E-02	4.69E-03	1.31E-04	1.47E-02	1.47E-02	7.01E-02	1.14E-03	3.47E-02	4.69E-03	1.31E-04	1.05E-04	1.47E-02	5.55E-02
1.19E-03	3.60E-02	4.66E-03	1.30E-04	1.44E-02	1.44E-02	7.07E-02	1.19E-03	3.60E-02	4.66E-03	1.30E-04	1.05E-04	1.44E-02	5.64E-02
1.24E-03	3.75E-02	4.65E-03	1.30E-04	1.40E-02	1.40E-02	7.15E-02	1.24E-03	3.75E-02	4.65E-03	1.30E-04	1.04E-04	1.40E-02	5.76E-02
1.30E-03	3.91E-02	4.63E-03	1.29E-04	1.37E-02	1.37E-02	7.25E-02	1.30E-03	3.91E-02	4.63E-03	1.29E-04	1.03E-04	1.37E-02	5.90E-02
1.37E-03	4.09E-02	4.62E-03	1.28E-04	1.33E-02	1.33E-02	7.38E-02	1.37E-03	4.09E-02	4.62E-03	1.28E-04	1.02E-04	1.33E-02	6.05E-02
1.44E-03	4.30E-02	4.62E-03	1.27E-04	1.30E-02	1.30E-02	7.52E-02	1.44E-03	4.30E-02	4.62E-03	1.27E-04	1.02E-04	1.30E-02	6.23E-02
1.53E-03	4.52E-02	4.62E-03	1.26E-04	1.27E-02	1.27E-02	7.69E-02	1.53E-03	4.52E-02	4.62E-03	1.26E-04	1.01E-04	1.27E-02	6.43E-02
1.63E-03	4.76E-02	4.61E-03	1.26E-04	1.25E-02	1.25E-02	7.89E-02	1.63E-03	4.76E-02	4.61E-03	1.26E-04	9.99E-05	1.25E-02	6.66E-02
8.32E-04	2.49E-02	4.78E-03	1.31E-04	1.77E-02	1.77E-02	6.61E-02	8.32E-04	2.49E-02	4.78E-03	1.31E-04	1.04E-04	1.77E-02	4.85E-02
8.58E-04	2.58E-02	4.75E-03	1.31E-04	1.71E-02	1.71E-02	6.58E-02	8.58E-04	2.58E-02	4.75E-03	1.31E-04	1.04E-04	1.71E-02	4.88E-02
8.84E-04	2.67E-02	4.72E-03	1.31E-04	1.66E-02	1.66E-02	6.57E-02	8.84E-04	2.67E-02	4.72E-03	1.31E-04	1.04E-04	1.66E-02	4.92E-02
9.14E-04	2.77E-02	4.70E-03	1.31E-04	1.61E-02	1.61E-02	6.56E-02	9.14E-04	2.77E-02	4.70E-03	1.31E-04	1.04E-04	1.61E-02	4.96E-02
9.44E-04	2.86E-02	4.66E-03	1.30E-04	1.57E-02	1.57E-02	6.56E-02	9.44E-04	2.86E-02	4.66E-03	1.30E-04	1.04E-04	1.57E-02	5.01E-02
9.77E-04	2.95E-02	4.63E-03	1.30E-04	1.52E-02	1.52E-02	6.57E-02	9.77E-04	2.95E-02	4.63E-03	1.30E-04	1.04E-04	1.52E-02	5.06E-02
1.01E-03	3.06E-02	4.61E-03	1.29E-04	1.48E-02	1.48E-02	6.60E-02	1.01E-03	3.06E-02	4.61E-03	1.29E-04	1.04E-04	1.48E-02	5.13E-02
1.05E-03	3.17E-02	4.58E-03	1.29E-04	1.44E-02	1.44E-02	6.63E-02	1.05E-03	3.17E-02	4.58E-03	1.29E-04	1.03E-04	1.44E-02	5.20E-02
1.09E-03	3.29E-02	4.56E-03	1.28E-04	1.41E-02	1.41E-02	6.68E-02	1.09E-03	3.29E-02	4.56E-03	1.28E-04	1.03E-04	1.41E-02	5.28E-02
1.14E-03	3.41E-02	4.53E-03	1.27E-04	1.37E-02	1.37E-02	6.73E-02	1.14E-03	3.41E-02	4.53E-03	1.27E-04	1.02E-04	1.37E-02	5.37E-02
1.19E-03	3.54E-02	4.51E-03	1.26E-04	1.34E-02	1.34E-02	6.80E-02	1.19E-03	3.54E-02	4.51E-03	1.26E-04	1.01E-04	1.34E-02	5.47E-02
1.24E-03	3.70E-02	4.50E-03	1.25E-04	1.30E-02	1.30E-02	6.89E-02	1.24E-03	3.70E-02	4.50E-03	1.25E-04	1.01E-04	1.30E-02	5.60E-02
1.31E-03	3.87E-02	4.49E-03	1.24E-04	1.27E-02	1.27E-02	7.02E-02	1.31E-03	3.87E-02	4.49E-03	1.24E-04	1.00E-04	1.27E-02	5.75E-02
1.38E-03	4.06E-02	4.48E-03	1.24E-04	1.25E-02	1.25E-02	7.15E-02	1.38E-03	4.06E-02	4.48E-03	1.24E-04	9.93E-05	1.25E-02	5.91E-02
1.46E-03	4.28E-02	4.48E-03	1.23E-04	1.22E-02	1.22E-02	7.32E-02	1.46E-03	4.28E-02	4.48E-03	1.23E-04	9.85E-05	1.22E-02	6.11E-02
7.85E-04	2.31E-02	4.67E-03	1.27E-04	1.73E-02	1.73E-02	6.34E-02	7.85E-04	2.31E-02	4.67E-03	1.27E-04	1.01E-04	1.73E-02	4.62E-02
8.07E-04	2.40E-02	4.65E-03	1.27E-04	1.68E-02	1.68E-02	6.31E-02	8.07E-04	2.40E-02	4.65E-03	1.27E-04	1.01E-04	1.68E-02	4.64E-02
8.30E-04	2.47E-02	4.63E-03	1.27E-04	1.62E-02	1.62E-02	6.28E-02	8.30E-04	2.47E-02	4.63E-03	1.27E-04	1.01E-04	1.62E-02	4.67E-02
8.56E-04	2.56E-02	4.60E-03	1.27E-04	1.57E-02	1.57E-02	6.27E-02	8.56E-04	2.56E-02	4.60E-03	1.27E-04	1.02E-04	1.57E-02	4.70E-02
8.82E-04	2.64E-02	4.57E-03	1.27E-04	1.53E-02	1.53E-02	6.26E-02	8.82E-04	2.64E-02	4.57E-03	1.27E-04	1.02E-04	1.53E-02	4.74E-02
9.11E-04	2.72E-02	4.54E-03	1.27E-04	1.49E-02	1.49E-02	6.25E-02	9.11E-04	2.72E-02	4.54E-03	1.27E-04	1.02E-04	1.49E-02	4.78E-02
9.42E-04	2.82E-02	4.51E-03	1.26E-04	1.44E-02	1.44E-02	6.26E-02	9.42E-04	2.82E-02	4.51E-03	1.26E-04	1.02E-04	1.44E-02	4.83E-02

9.75E-04	2.91E-02	4.48E-03	1.26E-04	1.41E-02	1.41E-02	6.28E-02	9.75E-04	2.91E-02	4.48E-03	1.26E-04	1.01E-04	1.41E-02	4.89E-02
1.01E-03	3.01E-02	4.46E-03	1.25E-04	1.37E-02	1.37E-02	6.31E-02	1.01E-03	3.01E-02	4.46E-03	1.25E-04	1.01E-04	1.37E-02	4.95E-02
1.05E-03	3.13E-02	4.43E-03	1.24E-04	1.34E-02	1.34E-02	6.36E-02	1.05E-03	3.13E-02	4.43E-03	1.24E-04	1.00E-04	1.34E-02	5.04E-02
1.09E-03	3.24E-02	4.41E-03	1.23E-04	1.30E-02	1.30E-02	6.41E-02	1.09E-03	3.24E-02	4.41E-03	1.23E-04	9.99E-05	1.30E-02	5.12E-02
1.14E-03	3.37E-02	4.39E-03	1.23E-04	1.27E-02	1.27E-02	6.48E-02	1.14E-03	3.37E-02	4.39E-03	1.23E-04	9.93E-05	1.27E-02	5.22E-02
1.19E-03	3.52E-02	4.38E-03	1.22E-04	1.24E-02	1.24E-02	6.57E-02	1.19E-03	3.52E-02	4.38E-03	1.22E-04	9.86E-05	1.24E-02	5.34E-02
1.25E-03	3.68E-02	4.37E-03	1.21E-04	1.21E-02	1.21E-02	6.68E-02	1.25E-03	3.68E-02	4.37E-03	1.21E-04	9.78E-05	1.21E-02	5.47E-02
1.32E-03	3.87E-02	4.36E-03	1.20E-04	1.19E-02	1.19E-02	6.83E-02	1.32E-03	3.87E-02	4.36E-03	1.20E-04	9.72E-05	1.19E-02	5.65E-02
7.45E-04	2.16E-02	4.57E-03	1.24E-04	1.69E-02	1.69E-02	6.08E-02	7.45E-04	2.16E-02	4.57E-03	1.24E-04	9.78E-05	1.69E-02	4.40E-02
7.65E-04	2.23E-02	4.56E-03	1.24E-04	1.63E-02	1.63E-02	6.04E-02	7.65E-04	2.23E-02	4.56E-03	1.24E-04	9.83E-05	1.63E-02	4.42E-02
7.85E-04	2.30E-02	4.53E-03	1.24E-04	1.58E-02	1.58E-02	6.00E-02	7.85E-04	2.30E-02	4.53E-03	1.24E-04	9.86E-05	1.58E-02	4.43E-02
8.06E-04	2.37E-02	4.51E-03	1.24E-04	1.53E-02	1.53E-02	5.97E-02	8.06E-04	2.37E-02	4.51E-03	1.24E-04	9.90E-05	1.53E-02	4.46E-02
8.30E-04	2.45E-02	4.48E-03	1.24E-04	1.48E-02	1.48E-02	5.96E-02	8.30E-04	2.45E-02	4.48E-03	1.24E-04	9.92E-05	1.48E-02	4.48E-02
8.54E-04	2.52E-02	4.45E-03	1.24E-04	1.44E-02	1.44E-02	5.95E-02	8.54E-04	2.52E-02	4.45E-03	1.24E-04	9.93E-05	1.44E-02	4.52E-02
8.82E-04	2.60E-02	4.42E-03	1.23E-04	1.40E-02	1.40E-02	5.95E-02	8.82E-04	2.60E-02	4.42E-03	1.23E-04	9.93E-05	1.40E-02	4.56E-02
9.11E-04	2.69E-02	4.39E-03	1.23E-04	1.36E-02	1.36E-02	5.96E-02	9.11E-04	2.69E-02	4.39E-03	1.23E-04	9.92E-05	1.36E-02	4.61E-02
9.43E-04	2.78E-02	4.37E-03	1.22E-04	1.33E-02	1.33E-02	5.98E-02	9.43E-04	2.78E-02	4.37E-03	1.22E-04	9.90E-05	1.33E-02	4.66E-02
9.77E-04	2.88E-02	4.34E-03	1.22E-04	1.30E-02	1.30E-02	6.02E-02	9.77E-04	2.88E-02	4.34E-03	1.22E-04	9.87E-05	1.30E-02	4.73E-02
1.01E-03	2.98E-02	4.32E-03	1.21E-04	1.27E-02	1.27E-02	6.06E-02	1.01E-03	2.98E-02	4.32E-03	1.21E-04	9.82E-05	1.27E-02	4.80E-02
1.06E-03	3.09E-02	4.29E-03	1.20E-04	1.23E-02	1.23E-02	6.11E-02	1.06E-03	3.09E-02	4.29E-03	1.20E-04	9.77E-05	1.23E-02	4.88E-02
1.10E-03	3.22E-02	4.28E-03	1.20E-04	1.21E-02	1.21E-02	6.18E-02	1.10E-03	3.22E-02	4.28E-03	1.20E-04	9.71E-05	1.21E-02	4.98E-02
1.15E-03	3.35E-02	4.26E-03	1.19E-04	1.18E-02	1.18E-02	6.26E-02	1.15E-03	3.35E-02	4.26E-03	1.19E-04	9.64E-05	1.18E-02	5.09E-02
1.21E-03	3.50E-02	4.25E-03	1.18E-04	1.15E-02	1.15E-02	6.36E-02	1.21E-03	3.50E-02	4.25E-03	1.18E-04	9.57E-05	1.15E-02	5.22E-02
7.29E-04	2.08E-02	4.46E-03	1.20E-04	1.57E-02	1.57E-02	5.76E-02	7.29E-04	2.08E-02	4.46E-03	1.20E-04	9.55E-05	1.57E-02	4.19E-02
7.47E-04	2.15E-02	4.44E-03	1.21E-04	1.52E-02	1.52E-02	5.72E-02	7.47E-04	2.15E-02	4.44E-03	1.21E-04	9.59E-05	1.52E-02	4.21E-02
7.65E-04	2.21E-02	4.42E-03	1.21E-04	1.48E-02	1.48E-02	5.69E-02	7.65E-04	2.21E-02	4.42E-03	1.21E-04	9.63E-05	1.48E-02	4.23E-02
7.85E-04	2.28E-02	4.39E-03	1.21E-04	1.43E-02	1.43E-02	5.67E-02	7.85E-04	2.28E-02	4.39E-03	1.21E-04	9.66E-05	1.43E-02	4.25E-02
8.07E-04	2.34E-02	4.36E-03	1.20E-04	1.39E-02	1.39E-02	5.65E-02	8.07E-04	2.34E-02	4.36E-03	1.20E-04	9.68E-05	1.39E-02	4.27E-02
8.31E-04	2.42E-02	4.33E-03	1.20E-04	1.35E-02	1.35E-02	5.65E-02	8.31E-04	2.42E-02	4.33E-03	1.20E-04	9.69E-05	1.35E-02	4.31E-02
8.56E-04	2.49E-02	4.31E-03	1.20E-04	1.32E-02	1.32E-02	5.66E-02	8.56E-04	2.49E-02	4.31E-03	1.20E-04	9.70E-05	1.32E-02	4.35E-02
8.84E-04	2.57E-02	4.28E-03	1.20E-04	1.28E-02	1.28E-02	5.67E-02	8.84E-04	2.57E-02	4.28E-03	1.20E-04	9.69E-05	1.28E-02	4.39E-02
9.15E-04	2.66E-02	4.25E-03	1.19E-04	1.25E-02	1.25E-02	5.69E-02	9.15E-04	2.66E-02	4.25E-03	1.19E-04	9.67E-05	1.25E-02	4.45E-02
9.48E-04	2.75E-02	4.23E-03	1.19E-04	1.22E-02	1.22E-02	5.72E-02	9.48E-04	2.75E-02	4.23E-03	1.19E-04	9.64E-05	1.22E-02	4.51E-02
9.83E-04	2.84E-02	4.20E-03	1.18E-04	1.19E-02	1.19E-02	5.76E-02	9.83E-04	2.84E-02	4.20E-03	1.18E-04	9.60E-05	1.19E-02	4.58E-02
1.02E-03	2.95E-02	4.18E-03	1.17E-04	1.17E-02	1.17E-02	5.82E-02	1.02E-03	2.95E-02	4.18E-03	1.17E-04	9.55E-05	1.17E-02	4.66E-02
1.07E-03	3.07E-02	4.17E-03	1.16E-04	1.14E-02	1.14E-02	5.89E-02	1.07E-03	3.07E-02	4.17E-03	1.16E-04	9.50E-05	1.14E-02	4.76E-02
1.12E-03	3.20E-02	4.15E-03	1.16E-04	1.12E-02	1.12E-02	5.97E-02	1.12E-03	3.20E-02	4.15E-03	1.16E-04	9.44E-05	1.12E-02	4.86E-02
6.99E-04	1.96E-02	4.37E-03	1.17E-04	1.51E-02	1.51E-02	5.49E-02	6.99E-04	1.96E-02	4.37E-03	1.17E-04	9.29E-05	1.51E-02	3.99E-02
7.15E-04	2.01E-02	4.35E-03	1.17E-04	1.46E-02	1.46E-02	5.45E-02	7.15E-04	2.01E-02	4.35E-03	1.17E-04	9.33E-05	1.46E-02	4.00E-02
7.31E-04	2.07E-02	4.33E-03	1.17E-04	1.41E-02	1.41E-02	5.41E-02	7.31E-04	2.07E-02	4.33E-03	1.17E-04	9.37E-05	1.41E-02	4.01E-02
7.49E-04	2.13E-02	4.30E-03	1.17E-04	1.37E-02	1.37E-02	5.39E-02	7.49E-04	2.13E-02	4.30E-03	1.17E-04	9.41E-05	1.37E-02	4.03E-02
7.68E-04	2.19E-02	4.28E-03	1.17E-04	1.34E-02	1.34E-02	5.38E-02	7.68E-04	2.19E-02	4.28E-03	1.17E-04	9.43E-05	1.34E-02	4.05E-02
7.89E-04	2.25E-02	4.25E-03	1.17E-04	1.30E-02	1.30E-02	5.37E-02	7.89E-04	2.25E-02	4.25E-03	1.17E-04	9.46E-05	1.30E-02	4.08E-02
8.12E-04	2.32E-02	4.23E-03	1.17E-04	1.27E-02	1.27E-02	5.38E-02	8.12E-04	2.32E-02	4.23E-03	1.17E-04	9.48E-05	1.27E-02	4.12E-02
8.36E-04	2.39E-02	4.20E-03	1.17E-04	1.24E-02	1.24E-02	5.38E-02	8.36E-04	2.39E-02	4.20E-03	1.17E-04	9.48E-05	1.24E-02	4.15E-02
8.62E-04	2.46E-02	4.17E-03	1.16E-04	1.21E-02	1.21E-02	5.39E-02	8.62E-04	2.46E-02	4.17E-03	1.16E-04	9.47E-05	1.21E-02	4.19E-02
8.90E-04	2.54E-02	4.14E-03	1.16E-04	1.18E-02	1.18E-02	5.41E-02	8.90E-04	2.54E-02	4.14E-03	1.16E-04	9.45E-05	1.18E-02	4.24E-02
9.22E-04	2.63E-02	4.12E-03	1.15E-04	1.15E-02	1.15E-02	5.45E-02	9.22E-04	2.63E-02	4.12E-03	1.15E-04	9.43E-05	1.15E-02	4.31E-02
9.56E-04	2.72E-02	4.10E-03	1.15E-04	1.13E-02	1.13E-02	5.48E-02	9.56E-04	2.72E-02	4.10E-03	1.15E-04	9.39E-05	1.13E-02	4.37E-02
9.95E-04	2.82E-02	4.08E-03	1.14E-04	1.10E-02	1.10E-02	5.54E-02	9.95E-04	2.82E-02	4.08E-03	1.14E-04	9.34E-05	1.10E-02	4.45E-02
1.04E-03	2.93E-02	4.06E-03	1.14E-04	1.08E-02	1.08E-02	5.61E-02	1.04E-03	2.93E-02	4.06E-03	1.14E-04	9.29E-05	1.08E-02	4.54E-02
6.74E-04	1.84E-02	4.27E-03	1.14E-04	1.43E-02	1.43E-02	5.21E-02	6.74E-04	1.84E-02	4.27E-03	1.14E-04	9.04E-05	1.43E-02	3.79E-02
6.88E-04	1.90E-02	4.27E-03	1.15E-04	1.39E-02	1.39E-02	5.19E-02	6.88E-04	1.90E-02	4.27E-03	1.15E-04	9.10E-05	1.39E-02	3.81E-02
7.03E-04	1.94E-02	4.24E-03	1.14E-04	1.35E-02	1.35E-02	5.15E-02	7.03E-04	1.94E-02	4.24E-03	1.14E-04	9.12E-05	1.35E-02	3.81E-02

7.18E-04	1.99E-02	4.22E-03	1.14E-04	1.31E-02	1.31E-02	5.12E-02	7.18E-04	1.99E-02	4.22E-03	1.14E-04	9.15E-05	1.31E-02	3.82E-02
7.35E-04	2.05E-02	4.20E-03	1.14E-04	1.28E-02	1.28E-02	5.11E-02	7.35E-04	2.05E-02	4.20E-03	1.14E-04	9.19E-05	1.28E-02	3.84E-02
7.54E-04	2.11E-02	4.18E-03	1.14E-04	1.25E-02	1.25E-02	5.10E-02	7.54E-04	2.11E-02	4.18E-03	1.14E-04	9.23E-05	1.25E-02	3.87E-02
7.74E-04	2.17E-02	4.15E-03	1.14E-04	1.21E-02	1.21E-02	5.11E-02	7.74E-04	2.17E-02	4.15E-03	1.14E-04	9.26E-05	1.21E-02	3.90E-02
7.95E-04	2.24E-02	4.13E-03	1.14E-04	1.19E-02	1.19E-02	5.11E-02	7.95E-04	2.24E-02	4.13E-03	1.14E-04	9.28E-05	1.19E-02	3.94E-02
8.19E-04	2.32E-02	4.11E-03	1.14E-04	1.16E-02	1.16E-02	5.14E-02	8.19E-04	2.32E-02	4.11E-03	1.14E-04	9.31E-05	1.16E-02	3.99E-02
8.43E-04	2.36E-02	4.07E-03	1.14E-04	1.13E-02	1.13E-02	5.13E-02	8.43E-04	2.36E-02	4.07E-03	1.14E-04	9.27E-05	1.13E-02	4.01E-02
8.70E-04	2.43E-02	4.04E-03	1.13E-04	1.11E-02	1.11E-02	5.15E-02	8.70E-04	2.43E-02	4.04E-03	1.13E-04	9.25E-05	1.11E-02	4.05E-02
9.00E-04	2.52E-02	4.02E-03	1.13E-04	1.08E-02	1.08E-02	5.19E-02	9.00E-04	2.52E-02	4.02E-03	1.13E-04	9.22E-05	1.08E-02	4.11E-02
9.33E-04	2.60E-02	3.99E-03	1.12E-04	1.06E-02	1.06E-02	5.22E-02	9.33E-04	2.60E-02	3.99E-03	1.12E-04	9.19E-05	1.06E-02	4.17E-02
9.71E-04	2.69E-02	3.97E-03	1.11E-04	1.04E-02	1.04E-02	5.28E-02	9.71E-04	2.69E-02	3.97E-03	1.11E-04	9.15E-05	1.04E-02	4.25E-02
6.50E-04	1.75E-02	4.19E-03	1.11E-04	1.36E-02	1.36E-02	4.95E-02	6.50E-04	1.75E-02	4.19E-03	1.11E-04	8.81E-05	1.36E-02	3.61E-02
6.62E-04	1.77E-02	4.16E-03	1.11E-04	1.32E-02	1.32E-02	4.89E-02	6.62E-04	1.77E-02	4.16E-03	1.11E-04	8.80E-05	1.32E-02	3.59E-02
6.76E-04	1.82E-02	4.15E-03	1.11E-04	1.28E-02	1.28E-02	4.88E-02	6.76E-04	1.82E-02	4.15E-03	1.11E-04	8.86E-05	1.28E-02	3.60E-02
6.91E-04	1.87E-02	4.14E-03	1.11E-04	1.25E-02	1.25E-02	4.86E-02	6.91E-04	1.87E-02	4.14E-03	1.11E-04	8.91E-05	1.25E-02	3.62E-02
7.07E-04	1.92E-02	4.12E-03	1.12E-04	1.22E-02	1.22E-02	4.85E-02	7.07E-04	1.92E-02	4.12E-03	1.12E-04	8.95E-05	1.22E-02	3.64E-02
7.23E-04	1.97E-02	4.09E-03	1.12E-04	1.19E-02	1.19E-02	4.84E-02	7.23E-04	1.97E-02	4.09E-03	1.12E-04	8.98E-05	1.19E-02	3.66E-02
7.42E-04	2.04E-02	4.08E-03	1.12E-04	1.16E-02	1.16E-02	4.86E-02	7.42E-04	2.04E-02	4.08E-03	1.12E-04	9.04E-05	1.16E-02	3.70E-02
7.61E-04	2.11E-02	4.07E-03	1.12E-04	1.14E-02	1.14E-02	4.87E-02	7.61E-04	2.11E-02	4.07E-03	1.12E-04	9.09E-05	1.14E-02	3.75E-02
7.82E-04	2.16E-02	4.04E-03	1.12E-04	1.11E-02	1.11E-02	4.88E-02	7.82E-04	2.16E-02	4.04E-03	1.12E-04	9.10E-05	1.11E-02	3.78E-02
8.03E-04	2.20E-02	3.99E-03	1.11E-04	1.08E-02	1.08E-02	4.85E-02	8.03E-04	2.20E-02	3.99E-03	1.11E-04	9.06E-05	1.08E-02	3.78E-02
8.27E-04	2.26E-02	3.97E-03	1.11E-04	1.06E-02	1.06E-02	4.88E-02	8.27E-04	2.26E-02	3.97E-03	1.11E-04	9.06E-05	1.06E-02	3.82E-02
8.53E-04	2.33E-02	3.94E-03	1.10E-04	1.04E-02	1.04E-02	4.90E-02	8.53E-04	2.33E-02	3.94E-03	1.10E-04	9.05E-05	1.04E-02	3.87E-02
8.82E-04	2.40E-02	3.92E-03	1.10E-04	1.02E-02	1.02E-02	4.93E-02	8.82E-04	2.40E-02	3.92E-03	1.10E-04	9.02E-05	1.02E-02	3.92E-02
9.14E-04	2.48E-02	3.90E-03	1.09E-04	9.99E-03	9.99E-03	4.97E-02	9.14E-04	2.48E-02	3.90E-03	1.09E-04	8.99E-05	9.99E-03	3.98E-02
6.26E-04	1.66E-02	4.11E-03	1.09E-04	1.28E-02	1.28E-02	4.70E-02	6.26E-04	1.66E-02	4.11E-03	1.09E-04	8.62E-05	1.28E-02	3.43E-02
6.39E-04	1.69E-02	4.09E-03	1.09E-04	1.24E-02	1.24E-02	4.66E-02	6.39E-04	1.69E-02	4.09E-03	1.09E-04	8.62E-05	1.24E-02	3.43E-02
6.52E-04	1.72E-02	4.06E-03	1.08E-04	1.21E-02	1.21E-02	4.62E-02	6.52E-04	1.72E-02	4.06E-03	1.08E-04	8.63E-05	1.21E-02	3.42E-02
6.66E-04	1.76E-02	4.05E-03	1.08E-04	1.18E-02	1.18E-02	4.60E-02	6.66E-04	1.76E-02	4.05E-03	1.08E-04	8.66E-05	1.18E-02	3.43E-02
6.81E-04	1.80E-02	4.03E-03	1.09E-04	1.15E-02	1.15E-02	4.60E-02	6.81E-04	1.80E-02	4.03E-03	1.09E-04	8.71E-05	1.15E-02	3.45E-02
6.96E-04	1.85E-02	4.02E-03	1.09E-04	1.13E-02	1.13E-02	4.59E-02	6.96E-04	1.85E-02	4.02E-03	1.09E-04	8.75E-05	1.13E-02	3.47E-02
7.13E-04	1.90E-02	4.00E-03	1.09E-04	1.10E-02	1.10E-02	4.59E-02	7.13E-04	1.90E-02	4.00E-03	1.09E-04	8.79E-05	1.10E-02	3.49E-02
7.31E-04	1.95E-02	3.98E-03	1.09E-04	1.08E-02	1.08E-02	4.59E-02	7.31E-04	1.95E-02	3.98E-03	1.09E-04	8.82E-05	1.08E-02	3.52E-02
7.50E-04	2.01E-02	3.96E-03	1.09E-04	1.06E-02	1.06E-02	4.61E-02	7.50E-04	2.01E-02	3.96E-03	1.09E-04	8.86E-05	1.06E-02	3.56E-02
7.69E-04	2.05E-02	3.93E-03	1.09E-04	1.04E-02	1.04E-02	4.61E-02	7.69E-04	2.05E-02	3.93E-03	1.09E-04	8.86E-05	1.04E-02	3.58E-02
7.91E-04	2.11E-02	3.90E-03	1.08E-04	1.02E-02	1.02E-02	4.62E-02	7.91E-04	2.11E-02	3.90E-03	1.08E-04	8.87E-05	1.02E-02	3.62E-02
8.14E-04	2.17E-02	3.88E-03	1.08E-04	9.96E-03	9.96E-03	4.64E-02	8.14E-04	2.17E-02	3.88E-03	1.08E-04	8.87E-05	9.96E-03	3.66E-02
8.39E-04	2.23E-02	3.85E-03	1.08E-04	9.76E-03	9.76E-03	4.66E-02	8.39E-04	2.23E-02	3.85E-03	1.08E-04	8.85E-05	9.76E-03	3.69E-02
8.67E-04	2.30E-02	3.83E-03	1.07E-04	9.58E-03	9.58E-03	4.69E-02	8.67E-04	2.30E-02	3.83E-03	1.07E-04	8.83E-05	9.58E-03	3.74E-02
6.03E-04	1.57E-02	4.01E-03	1.06E-04	1.20E-02	1.20E-02	4.44E-02	6.03E-04	1.57E-02	4.01E-03	1.06E-04	8.39E-05	1.20E-02	3.25E-02
6.15E-04	1.62E-02	4.02E-03	1.07E-04	1.17E-02	1.17E-02	4.43E-02	6.15E-04	1.62E-02	4.02E-03	1.07E-04	8.46E-05	1.17E-02	3.27E-02
6.28E-04	1.64E-02	3.99E-03	1.06E-04	1.14E-02	1.14E-02	4.40E-02	6.28E-04	1.64E-02	3.99E-03	1.06E-04	8.44E-05	1.14E-02	3.27E-02
6.41E-04	1.65E-02	3.96E-03	1.06E-04	1.12E-02	1.12E-02	4.36E-02	6.41E-04	1.65E-02	3.96E-03	1.06E-04	8.43E-05	1.12E-02	3.25E-02
6.55E-04	1.70E-02	3.96E-03	1.06E-04	1.09E-02	1.09E-02	4.36E-02	6.55E-04	1.70E-02	3.96E-03	1.06E-04	8.48E-05	1.09E-02	3.27E-02
6.70E-04	1.74E-02	3.94E-03	1.06E-04	1.07E-02	1.07E-02	4.35E-02	6.70E-04	1.74E-02	3.94E-03	1.06E-04	8.52E-05	1.07E-02	3.29E-02
6.85E-04	1.78E-02	3.92E-03	1.06E-04	1.05E-02	1.05E-02	4.35E-02	6.85E-04	1.78E-02	3.92E-03	1.06E-04	8.56E-05	1.05E-02	3.31E-02
7.02E-04	1.82E-02	3.90E-03	1.06E-04	1.03E-02	1.03E-02	4.34E-02	7.02E-04	1.82E-02	3.90E-03	1.06E-04	8.58E-05	1.03E-02	3.32E-02
7.19E-04	1.87E-02	3.88E-03	1.06E-04	1.01E-02	1.01E-02	4.35E-02	7.19E-04	1.87E-02	3.88E-03	1.06E-04	8.62E-05	1.01E-02	3.35E-02
7.38E-04	1.92E-02	3.85E-03	1.06E-04	9.87E-03	9.87E-03	4.36E-02	7.38E-04	1.92E-02	3.85E-03	1.06E-04	8.65E-05	9.87E-03	3.38E-02
7.59E-04	1.97E-02	3.83E-03	1.06E-04	9.69E-03	9.69E-03	4.38E-02	7.59E-04	1.97E-02	3.83E-03	1.06E-04	8.68E-05	9.69E-03	3.42E-02
7.80E-04	2.03E-02	3.81E-03	1.06E-04	9.52E-03	9.52E-03	4.40E-02	7.80E-04	2.03E-02	3.81E-03	1.06E-04	8.69E-05	9.52E-03	3.46E-02
8.03E-04	2.08E-02	3.79E-03	1.05E-04	9.34E-03	9.34E-03	4.42E-02	8.03E-04	2.08E-02	3.79E-03	1.05E-04	8.69E-05	9.34E-03	3.49E-02
8.28E-04	2.15E-02	3.77E-03	1.05E-04	9.19E-03	9.19E-03	4.46E-02	8.28E-04	2.15E-02	3.77E-03	1.05E-04	8.69E-05	9.19E-03	3.55E-02
5.79E-04	1.47E-02	3.90E-03	1.03E-04	1.12E-02	1.12E-02	4.17E-02	5.79E-04	1.47E-02	3.90E-03	1.03E-04	8.14E-05	1.12E-02	3.06E-02

5.90E-04	1.50E-02	3.89E-03	1.03E-04	1.09E-02	1.09E-02	4.14E-02	5.90E-04	1.50E-02	3.89E-03	1.03E-04	8.15E-05	1.09E-02	3.06E-02
6.03E-04	1.53E-02	3.89E-03	1.03E-04	1.07E-02	1.07E-02	4.13E-02	6.03E-04	1.53E-02	3.89E-03	1.03E-04	8.18E-05	1.07E-02	3.07E-02
6.16E-04	1.56E-02	3.88E-03	1.03E-04	1.05E-02	1.05E-02	4.12E-02	6.16E-04	1.56E-02	3.88E-03	1.03E-04	8.21E-05	1.05E-02	3.08E-02
6.29E-04	1.60E-02	3.87E-03	1.03E-04	1.03E-02	1.03E-02	4.12E-02	6.29E-04	1.60E-02	3.87E-03	1.03E-04	8.25E-05	1.03E-02	3.10E-02
6.44E-04	1.64E-02	3.86E-03	1.03E-04	1.01E-02	1.01E-02	4.12E-02	6.44E-04	1.64E-02	3.86E-03	1.03E-04	8.30E-05	1.01E-02	3.12E-02
6.59E-04	1.69E-02	3.86E-03	1.04E-04	9.93E-03	9.93E-03	4.14E-02	6.59E-04	1.69E-02	3.86E-03	1.04E-04	8.36E-05	9.93E-03	3.15E-02
6.75E-04	1.72E-02	3.83E-03	1.04E-04	9.74E-03	9.74E-03	4.13E-02	6.75E-04	1.72E-02	3.83E-03	1.04E-04	8.39E-05	9.74E-03	3.17E-02
6.90E-04	1.75E-02	3.80E-03	1.03E-04	9.54E-03	9.54E-03	4.12E-02	6.90E-04	1.75E-02	3.80E-03	1.03E-04	8.40E-05	9.54E-03	3.17E-02
7.08E-04	1.79E-02	3.78E-03	1.03E-04	9.37E-03	9.37E-03	4.12E-02	7.08E-04	1.79E-02	3.78E-03	1.03E-04	8.43E-05	9.37E-03	3.19E-02
7.27E-04	1.83E-02	3.76E-03	1.03E-04	9.21E-03	9.21E-03	4.13E-02	7.27E-04	1.83E-02	3.76E-03	1.03E-04	8.46E-05	9.21E-03	3.22E-02
7.47E-04	1.89E-02	3.74E-03	1.03E-04	9.07E-03	9.07E-03	4.16E-02	7.47E-04	1.89E-02	3.74E-03	1.03E-04	8.49E-05	9.07E-03	3.26E-02
7.69E-04	1.94E-02	3.73E-03	1.03E-04	8.93E-03	8.93E-03	4.19E-02	7.69E-04	1.94E-02	3.73E-03	1.03E-04	8.51E-05	8.93E-03	3.31E-02
5.56E-04	1.38E-02	3.80E-03	9.98E-05	1.04E-02	1.04E-02	3.91E-02	5.56E-04	1.38E-02	3.80E-03	9.98E-05	7.92E-05	1.04E-02	2.88E-02
5.67E-04	1.41E-02	3.80E-03	9.99E-05	1.02E-02	1.02E-02	3.90E-02	5.67E-04	1.41E-02	3.80E-03	9.99E-05	7.94E-05	1.02E-02	2.89E-02
5.78E-04	1.44E-02	3.79E-03	1.00E-04	1.00E-02	1.00E-02	3.90E-02	5.78E-04	1.44E-02	3.79E-03	1.00E-04	7.96E-05	1.00E-02	2.90E-02
5.90E-04	1.47E-02	3.79E-03	1.00E-04	9.85E-03	9.85E-03	3.89E-02	5.90E-04	1.47E-02	3.79E-03	1.00E-04	7.99E-05	9.85E-03	2.91E-02
6.04E-04	1.50E-02	3.78E-03	1.00E-04	9.68E-03	9.68E-03	3.89E-02	6.04E-04	1.50E-02	3.78E-03	1.00E-04	8.03E-05	9.68E-03	2.93E-02
6.17E-04	1.54E-02	3.78E-03	1.01E-04	9.53E-03	9.53E-03	3.90E-02	6.17E-04	1.54E-02	3.78E-03	1.01E-04	8.08E-05	9.53E-03	2.96E-02
6.32E-04	1.58E-02	3.77E-03	1.01E-04	9.36E-03	9.36E-03	3.90E-02	6.32E-04	1.58E-02	3.77E-03	1.01E-04	8.12E-05	9.36E-03	2.97E-02
6.47E-04	1.62E-02	3.76E-03	1.01E-04	9.22E-03	9.22E-03	3.91E-02	6.47E-04	1.62E-02	3.76E-03	1.01E-04	8.17E-05	9.22E-03	3.00E-02
6.62E-04	1.65E-02	3.74E-03	1.01E-04	9.06E-03	9.06E-03	3.91E-02	6.62E-04	1.65E-02	3.74E-03	1.01E-04	8.20E-05	9.06E-03	3.01E-02
6.78E-04	1.67E-02	3.71E-03	1.01E-04	8.89E-03	8.89E-03	3.90E-02	6.78E-04	1.67E-02	3.71E-03	1.01E-04	8.21E-05	8.89E-03	3.02E-02
6.96E-04	1.71E-02	3.69E-03	1.01E-04	8.74E-03	8.74E-03	3.91E-02	6.96E-04	1.71E-02	3.69E-03	1.01E-04	8.24E-05	8.74E-03	3.04E-02
7.15E-04	1.75E-02	3.67E-03	1.01E-04	8.61E-03	8.61E-03	3.92E-02	7.15E-04	1.75E-02	3.67E-03	1.01E-04	8.28E-05	8.61E-03	3.07E-02
7.36E-04	1.80E-02	3.66E-03	1.01E-04	8.49E-03	8.49E-03	3.95E-02	7.36E-04	1.80E-02	3.66E-03	1.01E-04	8.31E-05	8.49E-03	3.11E-02
5.24E-04	1.29E-02	3.70E-03	9.71E-05	9.83E-03	9.83E-03	3.68E-02	5.24E-04	1.29E-02	3.70E-03	9.71E-05	7.72E-05	9.83E-03	2.71E-02
5.34E-04	1.32E-02	3.71E-03	9.74E-05	9.69E-03	9.69E-03	3.69E-02	5.34E-04	1.32E-02	3.71E-03	9.74E-05	7.74E-05	9.69E-03	2.73E-02
5.44E-04	1.34E-02	3.71E-03	9.74E-05	9.53E-03	9.53E-03	3.68E-02	5.44E-04	1.34E-02	3.71E-03	9.74E-05	7.75E-05	9.53E-03	2.73E-02
5.56E-04	1.36E-02	3.71E-03	9.75E-05	9.37E-03	9.37E-03	3.68E-02	5.56E-04	1.36E-02	3.71E-03	9.75E-05	7.77E-05	9.37E-03	2.75E-02
5.67E-04	1.39E-02	3.71E-03	9.77E-05	9.23E-03	9.23E-03	3.68E-02	5.67E-04	1.39E-02	3.71E-03	9.77E-05	7.79E-05	9.23E-03	2.76E-02
5.79E-04	1.42E-02	3.70E-03	9.78E-05	9.08E-03	9.08E-03	3.67E-02	5.79E-04	1.42E-02	3.70E-03	9.78E-05	7.82E-05	9.08E-03	2.77E-02
5.92E-04	1.45E-02	3.69E-03	9.79E-05	8.94E-03	8.94E-03	3.68E-02	5.92E-04	1.45E-02	3.69E-03	9.79E-05	7.85E-05	8.94E-03	2.79E-02
6.05E-04	1.48E-02	3.69E-03	9.82E-05	8.82E-03	8.82E-03	3.69E-02	6.05E-04	1.48E-02	3.69E-03	9.82E-05	7.90E-05	8.82E-03	2.81E-02
6.19E-04	1.52E-02	3.68E-03	9.84E-05	8.69E-03	8.69E-03	3.70E-02	6.19E-04	1.52E-02	3.68E-03	9.84E-05	7.95E-05	8.69E-03	2.83E-02
6.34E-04	1.55E-02	3.67E-03	9.85E-05	8.56E-03	8.56E-03	3.70E-02	6.34E-04	1.55E-02	3.67E-03	9.85E-05	7.98E-05	8.56E-03	2.85E-02
6.50E-04	1.58E-02	3.65E-03	9.84E-05	8.42E-03	8.42E-03	3.70E-02	6.50E-04	1.58E-02	3.65E-03	9.84E-05	8.01E-05	8.42E-03	2.87E-02
6.66E-04	1.60E-02	3.63E-03	9.84E-05	8.29E-03	8.29E-03	3.70E-02	6.66E-04	1.60E-02	3.63E-03	9.84E-05	8.04E-05	8.29E-03	2.88E-02
6.83E-04	1.64E-02	3.61E-03	9.85E-05	8.18E-03	8.18E-03	3.71E-02	6.83E-04	1.64E-02	3.61E-03	9.85E-05	8.08E-05	8.18E-03	2.90E-02
7.03E-04	1.68E-02	3.59E-03	9.86E-05	8.07E-03	8.07E-03	3.74E-02	7.03E-04	1.68E-02	3.59E-03	9.86E-05	8.12E-05	8.07E-03	2.94E-02
5.06E-04	1.23E-02	3.61E-03	9.48E-05	9.12E-03	9.12E-03	3.47E-02	5.06E-04	1.23E-02	3.61E-03	9.48E-05	7.56E-05	9.12E-03	2.57E-02
5.15E-04	1.25E-02	3.62E-03	9.50E-05	9.00E-03	9.00E-03	3.47E-02	5.15E-04	1.25E-02	3.62E-03	9.50E-05	7.57E-05	9.00E-03	2.58E-02
5.25E-04	1.27E-02	3.62E-03	9.51E-05	8.88E-03	8.88E-03	3.47E-02	5.25E-04	1.27E-02	3.62E-03	9.51E-05	7.58E-05	8.88E-03	2.59E-02
5.35E-04	1.30E-02	3.62E-03	9.52E-05	8.76E-03	8.76E-03	3.47E-02	5.35E-04	1.30E-02	3.62E-03	9.52E-05	7.59E-05	8.76E-03	2.60E-02
5.45E-04	1.32E-02	3.62E-03	9.53E-05	8.64E-03	8.64E-03	3.47E-02	5.45E-04	1.32E-02	3.62E-03	9.53E-05	7.61E-05	8.64E-03	2.62E-02
5.56E-04	1.34E-02	3.62E-03	9.53E-05	8.52E-03	8.52E-03	3.47E-02	5.56E-04	1.34E-02	3.62E-03	9.53E-05	7.62E-05	8.52E-03	2.63E-02
5.68E-04	1.37E-02	3.62E-03	9.55E-05	8.41E-03	8.41E-03	3.48E-02	5.68E-04	1.37E-02	3.62E-03	9.55E-05	7.66E-05	8.41E-03	2.65E-02
5.80E-04	1.40E-02	3.61E-03	9.58E-05	8.30E-03	8.30E-03	3.49E-02	5.80E-04	1.40E-02	3.61E-03	9.58E-05	7.70E-05	8.30E-03	2.67E-02
5.94E-04	1.43E-02	3.61E-03	9.59E-05	8.19E-03	8.19E-03	3.50E-02	5.94E-04	1.43E-02	3.61E-03	9.59E-05	7.74E-05	8.19E-03	2.69E-02
6.08E-04	1.46E-02	3.60E-03	9.60E-05	8.08E-03	8.08E-03	3.50E-02	6.08E-04	1.46E-02	3.60E-03	9.60E-05	7.78E-05	8.08E-03	2.70E-02
6.22E-04	1.48E-02	3.58E-03	9.61E-05	7.97E-03	7.97E-03	3.51E-02	6.22E-04	1.48E-02	3.58E-03	9.61E-05	7.81E-05	7.97E-03	2.72E-02
6.37E-04	1.51E-02	3.56E-03	9.61E-05	7.86E-03	7.86E-03	3.51E-02	6.37E-04	1.51E-02	3.56E-03	9.61E-05	7.84E-05	7.86E-03	2.73E-02
6.53E-04	1.54E-02	3.55E-03	9.61E-05	7.75E-03	7.75E-03	3.52E-02	6.53E-04	1.54E-02	3.55E-03	9.61E-05	7.88E-05	7.75E-03	2.75E-02
6.71E-04	1.57E-02	3.53E-03	9.62E-05	7.65E-03	7.65E-03	3.53E-02	6.71E-04	1.57E-02	3.53E-03	9.62E-05	7.91E-05	7.65E-03	2.77E-02
4.89E-04	1.17E-02	3.52E-03	9.25E-05	8.44E-03	8.44E-03	3.27E-02	4.89E-04	1.17E-02	3.52E-03	9.25E-05	7.39E-05	8.44E-03	2.43E-02

4.97E-04	1.18E-02	3.53E-03	9.25E-05	8.35E-03	8.35E-03	3.27E-02	4.97E-04	1.18E-02	3.53E-03	9.25E-05	7.39E-05	8.35E-03	2.44E-02
5.06E-04	1.21E-02	3.53E-03	9.27E-05	8.26E-03	8.26E-03	3.27E-02	5.06E-04	1.21E-02	3.53E-03	9.27E-05	7.40E-05	8.26E-03	2.45E-02
5.16E-04	1.23E-02	3.54E-03	9.28E-05	8.17E-03	8.17E-03	3.28E-02	5.16E-04	1.23E-02	3.54E-03	9.28E-05	7.42E-05	8.17E-03	2.47E-02
5.26E-04	1.25E-02	3.54E-03	9.30E-05	8.09E-03	8.09E-03	3.29E-02	5.26E-04	1.25E-02	3.54E-03	9.30E-05	7.43E-05	8.09E-03	2.49E-02
5.36E-04	1.27E-02	3.54E-03	9.30E-05	7.99E-03	7.99E-03	3.29E-02	5.36E-04	1.27E-02	3.54E-03	9.30E-05	7.45E-05	7.99E-03	2.50E-02
5.46E-04	1.30E-02	3.54E-03	9.33E-05	7.90E-03	7.90E-03	3.30E-02	5.46E-04	1.30E-02	3.54E-03	9.33E-05	7.48E-05	7.90E-03	2.51E-02
5.58E-04	1.33E-02	3.54E-03	9.35E-05	7.81E-03	7.81E-03	3.31E-02	5.58E-04	1.33E-02	3.54E-03	9.35E-05	7.51E-05	7.81E-03	2.53E-02
5.70E-04	1.35E-02	3.53E-03	9.36E-05	7.72E-03	7.72E-03	3.31E-02	5.70E-04	1.35E-02	3.53E-03	9.36E-05	7.54E-05	7.72E-03	2.55E-02
5.83E-04	1.37E-02	3.53E-03	9.37E-05	7.63E-03	7.63E-03	3.32E-02	5.83E-04	1.37E-02	3.53E-03	9.37E-05	7.58E-05	7.63E-03	2.56E-02
5.96E-04	1.40E-02	3.51E-03	9.38E-05	7.53E-03	7.53E-03	3.32E-02	5.96E-04	1.40E-02	3.51E-03	9.38E-05	7.61E-05	7.53E-03	2.58E-02
6.10E-04	1.42E-02	3.50E-03	9.38E-05	7.44E-03	7.44E-03	3.33E-02	6.10E-04	1.42E-02	3.50E-03	9.38E-05	7.65E-05	7.44E-03	2.59E-02
6.25E-04	1.44E-02	3.48E-03	9.39E-05	7.35E-03	7.35E-03	3.33E-02	6.25E-04	1.44E-02	3.48E-03	9.39E-05	7.68E-05	7.35E-03	2.60E-02
6.41E-04	1.47E-02	3.47E-03	9.39E-05	7.26E-03	7.26E-03	3.34E-02	6.41E-04	1.47E-02	3.47E-03	9.39E-05	7.72E-05	7.26E-03	2.62E-02
6.58E-04	1.49E-02	3.45E-03	9.40E-05	7.17E-03	7.17E-03	3.35E-02	6.58E-04	1.49E-02	3.45E-03	9.40E-05	7.75E-05	7.17E-03	2.64E-02
6.77E-04	1.53E-02	3.44E-03	9.41E-05	7.10E-03	7.10E-03	3.37E-02	6.77E-04	1.53E-02	3.44E-03	9.41E-05	7.79E-05	7.10E-03	2.67E-02
4.74E-04	1.12E-02	3.44E-03	9.04E-05	7.84E-03	7.84E-03	3.08E-02	4.74E-04	1.12E-02	3.44E-03	9.04E-05	7.25E-05	7.84E-03	2.31E-02
4.81E-04	1.13E-02	3.44E-03	9.05E-05	7.77E-03	7.77E-03	3.09E-02	4.81E-04	1.13E-02	3.44E-03	9.05E-05	7.25E-05	7.77E-03	2.32E-02
4.90E-04	1.15E-02	3.45E-03	9.07E-05	7.71E-03	7.71E-03	3.10E-02	4.90E-04	1.15E-02	3.45E-03	9.07E-05	7.26E-05	7.71E-03	2.34E-02
4.98E-04	1.17E-02	3.46E-03	9.07E-05	7.63E-03	7.63E-03	3.10E-02	4.98E-04	1.17E-02	3.46E-03	9.07E-05	7.26E-05	7.63E-03	2.34E-02
5.07E-04	1.19E-02	3.46E-03	9.08E-05	7.56E-03	7.56E-03	3.11E-02	5.07E-04	1.19E-02	3.46E-03	9.08E-05	7.27E-05	7.56E-03	2.36E-02
5.17E-04	1.21E-02	3.46E-03	9.09E-05	7.49E-03	7.49E-03	3.11E-02	5.17E-04	1.21E-02	3.46E-03	9.09E-05	7.28E-05	7.49E-03	2.37E-02
5.27E-04	1.23E-02	3.46E-03	9.10E-05	7.41E-03	7.41E-03	3.12E-02	5.27E-04	1.23E-02	3.46E-03	9.10E-05	7.30E-05	7.41E-03	2.39E-02
5.38E-04	1.26E-02	3.47E-03	9.13E-05	7.35E-03	7.35E-03	3.14E-02	5.38E-04	1.26E-02	3.47E-03	9.13E-05	7.34E-05	7.35E-03	2.41E-02
5.49E-04	1.28E-02	3.46E-03	9.14E-05	7.27E-03	7.27E-03	3.14E-02	5.49E-04	1.28E-02	3.46E-03	9.14E-05	7.36E-05	7.27E-03	2.42E-02
5.60E-04	1.30E-02	3.45E-03	9.15E-05	7.19E-03	7.19E-03	3.14E-02	5.60E-04	1.30E-02	3.45E-03	9.15E-05	7.39E-05	7.19E-03	2.43E-02
5.72E-04	1.32E-02	3.45E-03	9.15E-05	7.11E-03	7.11E-03	3.15E-02	5.72E-04	1.32E-02	3.45E-03	9.15E-05	7.42E-05	7.11E-03	2.44E-02
5.85E-04	1.34E-02	3.44E-03	9.17E-05	7.04E-03	7.04E-03	3.16E-02	5.85E-04	1.34E-02	3.44E-03	9.17E-05	7.46E-05	7.04E-03	2.46E-02
5.99E-04	1.36E-02	3.42E-03	9.17E-05	6.96E-03	6.96E-03	3.16E-02	5.99E-04	1.36E-02	3.42E-03	9.17E-05	7.49E-05	6.96E-03	2.47E-02
6.13E-04	1.38E-02	3.41E-03	9.18E-05	6.88E-03	6.88E-03	3.16E-02	6.13E-04	1.38E-02	3.41E-03	9.18E-05	7.53E-05	6.88E-03	2.48E-02
6.29E-04	1.40E-02	3.39E-03	9.18E-05	6.81E-03	6.81E-03	3.17E-02	6.29E-04	1.40E-02	3.39E-03	9.18E-05	7.56E-05	6.81E-03	2.50E-02
6.46E-04	1.42E-02	3.38E-03	9.20E-05	6.74E-03	6.74E-03	3.18E-02	6.46E-04	1.42E-02	3.38E-03	9.20E-05	7.60E-05	6.74E-03	2.52E-02
4.59E-04	1.07E-02	3.36E-03	8.83E-05	7.28E-03	7.28E-03	2.91E-02	4.59E-04	1.07E-02	3.36E-03	8.83E-05	7.10E-05	7.28E-03	2.19E-02
4.67E-04	1.08E-02	3.36E-03	8.85E-05	7.23E-03	7.23E-03	2.92E-02	4.67E-04	1.08E-02	3.36E-03	8.85E-05	7.11E-05	7.23E-03	2.20E-02
4.75E-04	1.10E-02	3.37E-03	8.85E-05	7.18E-03	7.18E-03	2.93E-02	4.75E-04	1.10E-02	3.37E-03	8.85E-05	7.11E-05	7.18E-03	2.22E-02
4.83E-04	1.12E-02	3.38E-03	8.87E-05	7.13E-03	7.13E-03	2.94E-02	4.83E-04	1.12E-02	3.38E-03	8.87E-05	7.12E-05	7.13E-03	2.23E-02
4.91E-04	1.13E-02	3.38E-03	8.87E-05	7.07E-03	7.07E-03	2.94E-02	4.91E-04	1.13E-02	3.38E-03	8.87E-05	7.12E-05	7.07E-03	2.24E-02
5.00E-04	1.15E-02	3.38E-03	8.88E-05	7.01E-03	7.01E-03	2.95E-02	5.00E-04	1.15E-02	3.38E-03	8.88E-05	7.12E-05	7.01E-03	2.25E-02
5.10E-04	1.17E-02	3.39E-03	8.90E-05	6.97E-03	6.97E-03	2.96E-02	5.10E-04	1.17E-02	3.39E-03	8.90E-05	7.15E-05	6.97E-03	2.27E-02
5.19E-04	1.19E-02	3.39E-03	8.92E-05	6.92E-03	6.92E-03	2.97E-02	5.19E-04	1.19E-02	3.39E-03	8.92E-05	7.17E-05	6.92E-03	2.29E-02
5.29E-04	1.21E-02	3.39E-03	8.93E-05	6.86E-03	6.86E-03	2.98E-02	5.29E-04	1.21E-02	3.39E-03	8.93E-05	7.20E-05	6.86E-03	2.30E-02
5.40E-04	1.23E-02	3.39E-03	8.94E-05	6.79E-03	6.79E-03	2.99E-02	5.40E-04	1.23E-02	3.39E-03	8.94E-05	7.22E-05	6.79E-03	2.31E-02
5.51E-04	1.24E-02	3.38E-03	8.95E-05	6.72E-03	6.72E-03	2.99E-02	5.51E-04	1.24E-02	3.38E-03	8.95E-05	7.25E-05	6.72E-03	2.32E-02
5.63E-04	1.26E-02	3.37E-03	8.95E-05	6.65E-03	6.65E-03	2.99E-02	5.63E-04	1.26E-02	3.37E-03	8.95E-05	7.28E-05	6.65E-03	2.33E-02
5.75E-04	1.27E-02	3.36E-03	8.96E-05	6.59E-03	6.59E-03	2.99E-02	5.75E-04	1.27E-02	3.36E-03	8.96E-05	7.31E-05	6.59E-03	2.34E-02
5.88E-04	1.29E-02	3.35E-03	8.96E-05	6.52E-03	6.52E-03	3.00E-02	5.88E-04	1.29E-02	3.35E-03	8.96E-05	7.34E-05	6.52E-03	2.35E-02
6.02E-04	1.31E-02	3.33E-03	8.97E-05	6.46E-03	6.46E-03	3.00E-02	6.02E-04	1.31E-02	3.33E-03	8.97E-05	7.38E-05	6.46E-03	2.37E-02
6.18E-04	1.33E-02	3.32E-03	8.99E-05	6.40E-03	6.40E-03	3.01E-02	6.18E-04	1.33E-02	3.32E-03	8.99E-05	7.42E-05	6.40E-03	2.38E-02
4.46E-04	1.02E-02	3.28E-03	8.64E-05	6.77E-03	6.77E-03	2.76E-02	4.46E-04	1.02E-02	3.28E-03	8.64E-05	6.96E-05	6.77E-03	2.08E-02
4.53E-04	1.04E-02	3.29E-03	8.66E-05	6.75E-03	6.75E-03	2.77E-02	4.53E-04	1.04E-02	3.29E-03	8.66E-05	6.98E-05	6.75E-03	2.10E-02
4.61E-04	1.05E-02	3.30E-03	8.68E-05	6.73E-03	6.73E-03	2.78E-02	4.61E-04	1.05E-02	3.30E-03	8.68E-05	6.99E-05	6.73E-03	2.12E-02
4.69E-04	1.07E-02	3.30E-03	8.68E-05	6.68E-03	6.68E-03	2.79E-02	4.69E-04	1.07E-02	3.30E-03	8.68E-05	6.98E-05	6.68E-03	2.13E-02
4.76E-04	1.08E-02	3.31E-03	8.68E-05	6.63E-03	6.63E-03	2.79E-02	4.76E-04	1.08E-02	3.31E-03	8.68E-05	6.98E-05	6.63E-03	2.14E-02
4.84E-04	1.09E-02	3.31E-03	8.69E-05	6.59E-03	6.59E-03	2.80E-02	4.84E-04	1.09E-02	3.31E-03	8.69E-05	6.98E-05	6.59E-03	2.15E-02
4.93E-04	1.11E-02	3.31E-03	8.70E-05	6.55E-03	6.55E-03	2.81E-02	4.93E-04	1.11E-02	3.31E-03	8.70E-05	7.00E-05	6.55E-03	2.16E-02

5.02E-04	1.13E-02	3.32E-03	8.72E-05	6.51E-03	6.51E-03	2.82E-02	5.02E-04	1.13E-02	3.32E-03	8.72E-05	7.01E-05	6.51E-03	2.18E-02
5.12E-04	1.14E-02	3.32E-03	8.73E-05	6.46E-03	6.46E-03	2.83E-02	5.12E-04	1.14E-02	3.32E-03	8.73E-05	7.03E-05	6.46E-03	2.19E-02
5.22E-04	1.16E-02	3.32E-03	8.75E-05	6.41E-03	6.41E-03	2.84E-02	5.22E-04	1.16E-02	3.32E-03	8.75E-05	7.06E-05	6.41E-03	2.20E-02
5.32E-04	1.18E-02	3.31E-03	8.75E-05	6.36E-03	6.36E-03	2.84E-02	5.32E-04	1.18E-02	3.31E-03	8.75E-05	7.08E-05	6.36E-03	2.21E-02
5.42E-04	1.19E-02	3.30E-03	8.74E-05	6.29E-03	6.29E-03	2.84E-02	5.42E-04	1.19E-02	3.30E-03	8.74E-05	7.10E-05	6.29E-03	2.22E-02
5.54E-04	1.20E-02	3.30E-03	8.75E-05	6.24E-03	6.24E-03	2.84E-02	5.54E-04	1.20E-02	3.30E-03	8.75E-05	7.13E-05	6.24E-03	2.22E-02
5.66E-04	1.21E-02	3.29E-03	8.76E-05	6.18E-03	6.18E-03	2.84E-02	5.66E-04	1.21E-02	3.29E-03	8.76E-05	7.17E-05	6.18E-03	2.23E-02
5.78E-04	1.23E-02	3.28E-03	8.77E-05	6.13E-03	6.13E-03	2.85E-02	5.78E-04	1.23E-02	3.28E-03	8.77E-05	7.20E-05	6.13E-03	2.24E-02
5.92E-04	1.25E-02	3.26E-03	8.78E-05	6.08E-03	6.08E-03	2.86E-02	5.92E-04	1.25E-02	3.26E-03	8.78E-05	7.24E-05	6.08E-03	2.26E-02
4.34E-04	9.75E-03	3.20E-03	8.45E-05	6.32E-03	6.32E-03	2.61E-02	4.34E-04	9.75E-03	3.20E-03	8.45E-05	6.83E-05	6.32E-03	1.99E-02
4.41E-04	9.90E-03	3.21E-03	8.47E-05	6.30E-03	6.30E-03	2.62E-02	4.41E-04	9.90E-03	3.21E-03	8.47E-05	6.84E-05	6.30E-03	2.00E-02
4.48E-04	1.01E-02	3.22E-03	8.49E-05	6.28E-03	6.28E-03	2.64E-02	4.48E-04	1.01E-02	3.22E-03	8.49E-05	6.85E-05	6.28E-03	2.02E-02
4.55E-04	1.02E-02	3.23E-03	8.50E-05	6.26E-03	6.26E-03	2.65E-02	4.55E-04	1.02E-02	3.23E-03	8.50E-05	6.85E-05	6.26E-03	2.03E-02
4.62E-04	1.03E-02	3.23E-03	8.50E-05	6.23E-03	6.23E-03	2.66E-02	4.62E-04	1.03E-02	3.23E-03	8.50E-05	6.86E-05	6.23E-03	2.04E-02
4.70E-04	1.04E-02	3.24E-03	8.51E-05	6.19E-03	6.19E-03	2.66E-02	4.70E-04	1.04E-02	3.24E-03	8.51E-05	6.85E-05	6.19E-03	2.05E-02
4.78E-04	1.06E-02	3.24E-03	8.52E-05	6.16E-03	6.16E-03	2.67E-02	4.78E-04	1.06E-02	3.24E-03	8.52E-05	6.86E-05	6.16E-03	2.06E-02
4.87E-04	1.07E-02	3.25E-03	8.53E-05	6.13E-03	6.13E-03	2.68E-02	4.87E-04	1.07E-02	3.25E-03	8.53E-05	6.87E-05	6.13E-03	2.07E-02
4.95E-04	1.09E-02	3.25E-03	8.54E-05	6.09E-03	6.09E-03	2.69E-02	4.95E-04	1.09E-02	3.25E-03	8.54E-05	6.88E-05	6.09E-03	2.08E-02
5.05E-04	1.10E-02	3.25E-03	8.55E-05	6.05E-03	6.05E-03	2.69E-02	5.05E-04	1.10E-02	3.25E-03	8.55E-05	6.90E-05	6.05E-03	2.10E-02
5.14E-04	1.11E-02	3.25E-03	8.55E-05	6.01E-03	6.01E-03	2.70E-02	5.14E-04	1.11E-02	3.25E-03	8.55E-05	6.92E-05	6.01E-03	2.10E-02
5.24E-04	1.12E-02	3.24E-03	8.55E-05	5.96E-03	5.96E-03	2.70E-02	5.24E-04	1.12E-02	3.24E-03	8.55E-05	6.94E-05	5.96E-03	2.11E-02
5.34E-04	1.13E-02	3.23E-03	8.56E-05	5.91E-03	5.91E-03	2.70E-02	5.34E-04	1.13E-02	3.23E-03	8.56E-05	6.97E-05	5.91E-03	2.12E-02
5.45E-04	1.15E-02	3.23E-03	8.57E-05	5.87E-03	5.87E-03	2.71E-02	5.45E-04	1.15E-02	3.23E-03	8.57E-05	7.00E-05	5.87E-03	2.13E-02
5.57E-04	1.16E-02	3.22E-03	8.58E-05	5.83E-03	5.83E-03	2.71E-02	5.57E-04	1.16E-02	3.22E-03	8.58E-05	7.04E-05	5.83E-03	2.13E-02
5.70E-04	1.17E-02	3.21E-03	8.59E-05	5.78E-03	5.78E-03	2.71E-02	5.70E-04	1.17E-02	3.21E-03	8.59E-05	7.07E-05	5.78E-03	2.14E-02
4.22E-04	9.34E-03	3.12E-03	8.27E-05	5.91E-03	5.91E-03	2.48E-02	4.22E-04	9.34E-03	3.12E-03	8.27E-05	6.70E-05	5.91E-03	1.89E-02
4.28E-04	9.43E-03	3.13E-03	8.27E-05	5.89E-03	5.89E-03	2.49E-02	4.28E-04	9.43E-03	3.13E-03	8.27E-05	6.70E-05	5.89E-03	1.90E-02
4.35E-04	9.56E-03	3.14E-03	8.29E-05	5.87E-03	5.87E-03	2.50E-02	4.35E-04	9.56E-03	3.14E-03	8.29E-05	6.71E-05	5.87E-03	1.92E-02
4.42E-04	9.69E-03	3.15E-03	8.30E-05	5.86E-03	5.86E-03	2.51E-02	4.42E-04	9.69E-03	3.15E-03	8.30E-05	6.71E-05	5.86E-03	1.93E-02
4.49E-04	9.84E-03	3.16E-03	8.32E-05	5.85E-03	5.85E-03	2.52E-02	4.49E-04	9.84E-03	3.16E-03	8.32E-05	6.72E-05	5.85E-03	1.94E-02
4.56E-04	9.91E-03	3.16E-03	8.31E-05	5.81E-03	5.81E-03	2.52E-02	4.56E-04	9.91E-03	3.16E-03	8.31E-05	6.71E-05	5.81E-03	1.95E-02
4.64E-04	1.00E-02	3.17E-03	8.32E-05	5.79E-03	5.79E-03	2.53E-02	4.64E-04	1.00E-02	3.17E-03	8.32E-05	6.72E-05	5.79E-03	1.96E-02
4.72E-04	1.02E-02	3.17E-03	8.34E-05	5.77E-03	5.77E-03	2.55E-02	4.72E-04	1.02E-02	3.17E-03	8.34E-05	6.73E-05	5.77E-03	1.97E-02
4.80E-04	1.03E-02	3.18E-03	8.35E-05	5.74E-03	5.74E-03	2.55E-02	4.80E-04	1.03E-02	3.18E-03	8.35E-05	6.74E-05	5.74E-03	1.98E-02
4.89E-04	1.05E-02	3.19E-03	8.37E-05	5.73E-03	5.73E-03	2.57E-02	4.89E-04	1.05E-02	3.19E-03	8.37E-05	6.77E-05	5.73E-03	2.00E-02
4.98E-04	1.05E-02	3.18E-03	8.37E-05	5.69E-03	5.69E-03	2.57E-02	4.98E-04	1.05E-02	3.18E-03	8.37E-05	6.78E-05	5.69E-03	2.01E-02
5.07E-04	1.06E-02	3.18E-03	8.36E-05	5.64E-03	5.64E-03	2.57E-02	5.07E-04	1.06E-02	3.18E-03	8.36E-05	6.79E-05	5.64E-03	2.01E-02
5.16E-04	1.07E-02	3.17E-03	8.37E-05	5.61E-03	5.61E-03	2.57E-02	5.16E-04	1.07E-02	3.17E-03	8.37E-05	6.81E-05	5.61E-03	2.01E-02
5.27E-04	1.08E-02	3.17E-03	8.39E-05	5.57E-03	5.57E-03	2.58E-02	5.27E-04	1.08E-02	3.17E-03	8.39E-05	6.84E-05	5.57E-03	2.03E-02
5.37E-04	1.10E-02	3.16E-03	8.40E-05	5.54E-03	5.54E-03	2.58E-02	5.37E-04	1.10E-02	3.16E-03	8.40E-05	6.88E-05	5.54E-03	2.04E-02
5.49E-04	1.11E-02	3.16E-03	8.41E-05	5.50E-03	5.50E-03	2.59E-02	5.49E-04	1.11E-02	3.16E-03	8.41E-05	6.91E-05	5.50E-03	2.04E-02
4.11E-04	8.94E-03	3.05E-03	8.09E-05	5.54E-03	5.54E-03	2.36E-02	4.11E-04	8.94E-03	3.05E-03	8.09E-05	6.57E-05	5.54E-03	1.81E-02
4.17E-04	9.03E-03	3.06E-03	8.10E-05	5.53E-03	5.53E-03	2.36E-02	4.17E-04	9.03E-03	3.06E-03	8.10E-05	6.58E-05	5.53E-03	1.82E-02
4.23E-04	9.14E-03	3.07E-03	8.11E-05	5.52E-03	5.52E-03	2.37E-02	4.23E-04	9.14E-03	3.07E-03	8.11E-05	6.59E-05	5.52E-03	1.83E-02
4.29E-04	9.23E-03	3.07E-03	8.11E-05	5.50E-03	5.50E-03	2.38E-02	4.29E-04	9.23E-03	3.07E-03	8.11E-05	6.58E-05	5.50E-03	1.84E-02
4.50E-04	9.53E-03	3.09E-03	8.14E-05	5.45E-03	5.45E-03	2.40E-02	4.50E-04	9.53E-03	3.09E-03	8.14E-05	6.59E-05	5.45E-03	1.87E-02
4.57E-04	9.62E-03	3.10E-03	8.14E-05	5.43E-03	5.43E-03	2.41E-02	4.57E-04	9.62E-03	3.10E-03	8.14E-05	6.59E-05	5.43E-03	1.88E-02
4.65E-04	9.72E-03	3.10E-03	8.15E-05	5.41E-03	5.41E-03	2.42E-02	4.65E-04	9.72E-03	3.10E-03	8.15E-05	6.60E-05	5.41E-03	1.88E-02
4.74E-04	9.90E-03	3.12E-03	8.19E-05	5.41E-03	5.41E-03	2.44E-02	4.74E-04	9.90E-03	3.12E-03	8.19E-05	6.62E-05	5.41E-03	1.90E-02
4.82E-04	1.00E-02	3.12E-03	8.21E-05	5.39E-03	5.39E-03	2.45E-02	4.82E-04	1.00E-02	3.12E-03	8.21E-05	6.65E-05	5.39E-03	1.92E-02
4.90E-04	1.01E-02	3.11E-03	8.18E-05	5.35E-03	5.35E-03	2.44E-02	4.90E-04	1.01E-02	3.11E-03	8.18E-05	6.64E-05	5.35E-03	1.91E-02
4.99E-04	1.02E-02	3.11E-03	8.19E-05	5.32E-03	5.32E-03	2.45E-02	4.99E-04	1.02E-02	3.11E-03	8.19E-05	6.66E-05	5.32E-03	1.92E-02
5.09E-04	1.03E-02	3.11E-03	8.21E-05	5.29E-03	5.29E-03	2.46E-02	5.09E-04	1.03E-02	3.11E-03	8.21E-05	6.69E-05	5.29E-03	1.93E-02
5.19E-04	1.04E-02	3.11E-03	8.23E-05	5.27E-03	5.27E-03	2.47E-02	5.19E-04	1.04E-02	3.11E-03	8.23E-05	6.73E-05	5.27E-03	1.95E-02

5.30E-04	1.05E-02	3.10E-03	8.24E-05	5.24E-03	5.24E-03	2.47E-02	5.30E-04	1.05E-02	3.10E-03	8.24E-05	6.76E-05	5.24E-03	1.95E-02
4.00E-04	8.59E-03	2.99E-03	7.93E-05	5.22E-03	5.22E-03	2.25E-02	4.00E-04	8.59E-03	2.99E-03	7.93E-05	6.46E-05	5.22E-03	1.73E-02
4.06E-04	8.70E-03	3.00E-03	7.95E-05	5.22E-03	5.22E-03	2.26E-02	4.06E-04	8.70E-03	3.00E-03	7.95E-05	6.47E-05	5.22E-03	1.75E-02
4.11E-04	8.76E-03	3.00E-03	7.95E-05	5.20E-03	5.20E-03	2.26E-02	4.11E-04	8.76E-03	3.00E-03	7.95E-05	6.47E-05	5.20E-03	1.75E-02
4.18E-04	8.83E-03	3.01E-03	7.95E-05	5.18E-03	5.18E-03	2.27E-02	4.18E-04	8.83E-03	3.01E-03	7.95E-05	6.47E-05	5.18E-03	1.76E-02
4.37E-04	9.09E-03	3.02E-03	7.97E-05	5.14E-03	5.14E-03	2.29E-02	4.37E-04	9.09E-03	3.02E-03	7.97E-05	6.47E-05	5.14E-03	1.78E-02
4.44E-04	9.19E-03	3.03E-03	7.98E-05	5.13E-03	5.13E-03	2.30E-02	4.44E-04	9.19E-03	3.03E-03	7.98E-05	6.47E-05	5.13E-03	1.79E-02
4.51E-04	9.26E-03	3.04E-03	7.98E-05	5.11E-03	5.11E-03	2.31E-02	4.51E-04	9.26E-03	3.04E-03	7.98E-05	6.47E-05	5.11E-03	1.80E-02
4.59E-04	9.37E-03	3.04E-03	7.99E-05	5.10E-03	5.10E-03	2.31E-02	4.59E-04	9.37E-03	3.04E-03	7.99E-05	6.48E-05	5.10E-03	1.81E-02
4.67E-04	9.48E-03	3.05E-03	8.01E-05	5.09E-03	5.09E-03	2.33E-02	4.67E-04	9.48E-03	3.05E-03	8.01E-05	6.50E-05	5.09E-03	1.82E-02
4.75E-04	9.53E-03	3.05E-03	8.00E-05	5.06E-03	5.06E-03	2.33E-02	4.75E-04	9.53E-03	3.05E-03	8.00E-05	6.50E-05	5.06E-03	1.83E-02
4.83E-04	9.63E-03	3.05E-03	8.01E-05	5.04E-03	5.04E-03	2.33E-02	4.83E-04	9.63E-03	3.05E-03	8.01E-05	6.52E-05	5.04E-03	1.84E-02
4.93E-04	9.79E-03	3.05E-03	8.04E-05	5.03E-03	5.03E-03	2.35E-02	4.93E-04	9.79E-03	3.05E-03	8.04E-05	6.55E-05	5.03E-03	1.85E-02
5.02E-04	9.89E-03	3.05E-03	8.05E-05	5.01E-03	5.01E-03	2.35E-02	5.02E-04	9.89E-03	3.05E-03	8.05E-05	6.58E-05	5.01E-03	1.86E-02
5.11E-04	9.96E-03	3.04E-03	8.05E-05	4.98E-03	4.98E-03	2.36E-02	5.11E-04	9.96E-03	3.04E-03	8.05E-05	6.60E-05	4.98E-03	1.86E-02
4.34E-03	1.04E-01	6.59E-03	1.82E-04	1.85E-02	1.85E-02	1.52E-01	4.34E-03	1.04E-01	6.59E-03	1.82E-04	1.33E-04	1.85E-02	1.34E-01
5.27E-03	1.19E-01	6.61E-03	1.81E-04	1.81E-02	1.81E-02	1.67E-01	5.27E-03	1.19E-01	6.61E-03	1.81E-04	1.32E-04	1.81E-02	1.49E-01
6.60E-03	1.38E-01	6.62E-03	1.80E-04	1.77E-02	1.77E-02	1.87E-01	6.60E-03	1.38E-01	6.62E-03	1.80E-04	1.31E-04	1.77E-02	1.69E-01
8.61E-03	1.62E-01	6.64E-03	1.79E-04	1.74E-02	1.74E-02	2.12E-01	8.61E-03	1.62E-01	6.64E-03	1.79E-04	1.30E-04	1.74E-02	1.95E-01
3.05E-03	8.22E-02	6.34E-03	1.76E-04	1.84E-02	1.84E-02	1.29E-01	3.05E-03	8.22E-02	6.34E-03	1.76E-04	1.31E-04	1.84E-02	1.10E-01
3.48E-03	9.06E-02	6.34E-03	1.75E-04	1.81E-02	1.81E-02	1.37E-01	3.48E-03	9.06E-02	6.34E-03	1.75E-04	1.30E-04	1.81E-02	1.19E-01
4.02E-03	1.00E-01	6.35E-03	1.74E-04	1.77E-02	1.77E-02	1.46E-01	4.02E-03	1.00E-01	6.35E-03	1.74E-04	1.29E-04	1.77E-02	1.29E-01
4.77E-03	1.12E-01	6.36E-03	1.73E-04	1.74E-02	1.74E-02	1.58E-01	4.77E-03	1.12E-01	6.36E-03	1.73E-04	1.27E-04	1.74E-02	1.41E-01
2.35E-03	6.77E-02	6.11E-03	1.71E-04	1.84E-02	1.84E-02	1.13E-01	2.35E-03	6.77E-02	6.11E-03	1.71E-04	1.29E-04	1.84E-02	9.48E-02
2.59E-03	7.30E-02	6.10E-03	1.69E-04	1.81E-02	1.81E-02	1.18E-01	2.59E-03	7.30E-02	6.10E-03	1.69E-04	1.28E-04	1.81E-02	1.00E-01
2.89E-03	7.93E-02	6.10E-03	1.68E-04	1.77E-02	1.77E-02	1.24E-01	2.89E-03	7.93E-02	6.10E-03	1.68E-04	1.27E-04	1.77E-02	1.06E-01
3.25E-03	8.64E-02	6.11E-03	1.67E-04	1.73E-02	1.73E-02	1.31E-01	3.25E-03	8.64E-02	6.11E-03	1.67E-04	1.25E-04	1.73E-02	1.13E-01
1.92E-03	5.75E-02	5.91E-03	1.66E-04	1.84E-02	1.84E-02	1.02E-01	1.92E-03	5.75E-02	5.91E-03	1.66E-04	1.27E-04	1.84E-02	8.40E-02
2.08E-03	6.14E-02	5.89E-03	1.65E-04	1.80E-02	1.80E-02	1.06E-01	2.08E-03	6.14E-02	5.89E-03	1.65E-04	1.26E-04	1.80E-02	8.76E-02
2.26E-03	6.58E-02	5.89E-03	1.63E-04	1.77E-02	1.77E-02	1.09E-01	2.26E-03	6.58E-02	5.89E-03	1.63E-04	1.25E-04	1.77E-02	9.19E-02
2.48E-03	7.07E-02	5.89E-03	1.62E-04	1.73E-02	1.73E-02	1.14E-01	2.48E-03	7.07E-02	5.89E-03	1.62E-04	1.24E-04	1.73E-02	9.66E-02
1.63E-03	4.98E-02	5.72E-03	1.61E-04	1.84E-02	1.84E-02	9.41E-02	1.63E-03	4.98E-02	5.72E-03	1.61E-04	1.24E-04	1.84E-02	7.58E-02
1.74E-03	5.28E-02	5.71E-03	1.60E-04	1.80E-02	1.80E-02	9.65E-02	1.74E-03	5.28E-02	5.71E-03	1.60E-04	1.23E-04	1.80E-02	7.86E-02
1.87E-03	5.61E-02	5.69E-03	1.59E-04	1.76E-02	1.76E-02	9.91E-02	1.87E-03	5.61E-02	5.69E-03	1.59E-04	1.23E-04	1.76E-02	8.16E-02
2.01E-03	5.96E-02	5.68E-03	1.58E-04	1.73E-02	1.73E-02	1.02E-01	2.01E-03	5.96E-02	5.68E-03	1.58E-04	1.21E-04	1.73E-02	8.48E-02
3.43E-03	9.00E-02	6.12E-03	1.67E-04	1.72E-02	1.72E-02	1.34E-01	3.43E-03	9.00E-02	6.12E-03	1.67E-04	1.25E-04	1.72E-02	1.17E-01
3.95E-03	9.87E-02	6.13E-03	1.66E-04	1.68E-02	1.68E-02	1.43E-01	3.95E-03	9.87E-02	6.13E-03	1.66E-04	1.24E-04	1.68E-02	1.26E-01
4.63E-03	1.09E-01	6.14E-03	1.66E-04	1.65E-02	1.65E-02	1.53E-01	4.63E-03	1.09E-01	6.14E-03	1.66E-04	1.23E-04	1.65E-02	1.37E-01
5.62E-03	1.24E-01	6.16E-03	1.65E-04	1.61E-02	1.61E-02	1.68E-01	5.62E-03	1.24E-01	6.16E-03	1.65E-04	1.22E-04	1.61E-02	1.52E-01
7.15E-03	1.46E-01	6.20E-03	1.65E-04	1.58E-02	1.58E-02	1.91E-01	7.15E-03	1.46E-01	6.20E-03	1.65E-04	1.21E-04	1.58E-02	1.75E-01
2.58E-03	7.29E-02	5.89E-03	1.62E-04	1.71E-02	1.71E-02	1.16E-01	2.58E-03	7.29E-02	5.89E-03	1.62E-04	1.23E-04	1.71E-02	9.88E-02
2.86E-03	7.85E-02	5.89E-03	1.61E-04	1.68E-02	1.68E-02	1.21E-01	2.86E-03	7.85E-02	5.89E-03	1.61E-04	1.22E-04	1.68E-02	1.04E-01
3.20E-03	8.49E-02	5.90E-03	1.60E-04	1.64E-02	1.64E-02	1.27E-01	3.20E-03	8.49E-02	5.90E-03	1.60E-04	1.21E-04	1.64E-02	1.11E-01
3.65E-03	9.29E-02	5.92E-03	1.60E-04	1.61E-02	1.61E-02	1.35E-01	3.65E-03	9.29E-02	5.92E-03	1.60E-04	1.20E-04	1.61E-02	1.19E-01
4.24E-03	1.03E-01	5.94E-03	1.59E-04	1.58E-02	1.58E-02	1.45E-01	4.24E-03	1.03E-01	5.94E-03	1.59E-04	1.19E-04	1.58E-02	1.29E-01
2.07E-03	6.12E-02	5.68E-03	1.58E-04	1.71E-02	1.71E-02	1.03E-01	2.07E-03	6.12E-02	5.68E-03	1.58E-04	1.21E-04	1.71E-02	8.63E-02
2.24E-03	6.49E-02	5.68E-03	1.57E-04	1.67E-02	1.67E-02	1.07E-01	2.24E-03	6.49E-02	5.68E-03	1.57E-04	1.20E-04	1.67E-02	8.99E-02
2.45E-03	6.94E-02	5.68E-03	1.56E-04	1.64E-02	1.64E-02	1.10E-01	2.45E-03	6.94E-02	5.68E-03	1.56E-04	1.19E-04	1.64E-02	9.42E-02
2.70E-03	7.46E-02	5.69E-03	1.55E-04	1.60E-02	1.60E-02	1.15E-01	2.70E-03	7.46E-02	5.69E-03	1.55E-04	1.18E-04	1.60E-02	9.93E-02
3.00E-03	8.05E-02	5.70E-03	1.54E-04	1.57E-02	1.57E-02	1.21E-01	3.00E-03	8.05E-02	5.70E-03	1.54E-04	1.17E-04	1.57E-02	1.05E-01
4.28E-03	1.04E-01	5.91E-03	1.58E-04	1.56E-02	1.56E-02	1.45E-01	4.28E-03	1.04E-01	5.91E-03	1.58E-04	1.18E-04	1.56E-02	1.30E-01
5.13E-03	1.18E-01	5.94E-03	1.58E-04	1.53E-02	1.53E-02	1.59E-01	5.13E-03	1.18E-01	5.94E-03	1.58E-04	1.17E-04	1.53E-02	1.44E-01
6.45E-03	1.38E-01	5.98E-03	1.59E-04	1.49E-02	1.49E-02	1.81E-01	6.45E-03	1.38E-01	5.98E-03	1.59E-04	1.17E-04	1.49E-02	1.66E-01
8.52E-03	1.66E-01	6.02E-03	1.59E-04	1.46E-02	1.46E-02	2.10E-01	8.52E-03	1.66E-01	6.02E-03	1.59E-04	1.17E-04	1.46E-02	1.96E-01

3.03E-03	8.09E-02	5.67E-03	1.53E-04	1.55E-02	1.55E-02	1.21E-01	3.03E-03	8.09E-02	5.67E-03	1.53E-04	1.16E-04	1.55E-02	1.05E-01
3.43E-03	8.86E-02	5.69E-03	1.53E-04	1.52E-02	1.52E-02	1.28E-01	3.43E-03	8.86E-02	5.69E-03	1.53E-04	1.15E-04	1.52E-02	1.13E-01
3.97E-03	9.92E-02	5.73E-03	1.53E-04	1.49E-02	1.49E-02	1.39E-01	3.97E-03	9.92E-02	5.73E-03	1.53E-04	1.15E-04	1.49E-02	1.24E-01
4.73E-03	1.13E-01	5.77E-03	1.53E-04	1.46E-02	1.46E-02	1.53E-01	4.73E-03	1.13E-01	5.77E-03	1.53E-04	1.14E-04	1.46E-02	1.39E-01
5.72E-03	1.70E-01	2.44E-03	8.96E-05	5.64E-04	5.64E-04	1.80E-01	5.72E-03	1.70E-01	2.44E-03	8.96E-05	7.05E-05	5.64E-04	1.79E-01
1.07E-02	2.77E-01	2.62E-03	9.11E-05	5.85E-04	5.85E-04	2.92E-01	1.07E-02	2.77E-01	2.62E-03	9.11E-05	7.07E-05	5.85E-04	2.91E-01
8.28E-03	2.28E-01	2.59E-03	9.15E-05	5.83E-04	5.83E-04	2.40E-01	8.28E-03	2.28E-01	2.59E-03	9.15E-05	7.14E-05	5.83E-04	2.40E-01
6.73E-03	1.94E-01	2.55E-03	9.18E-05	5.78E-04	5.78E-04	2.04E-01	6.73E-03	1.94E-01	2.55E-03	9.18E-05	7.18E-05	5.78E-04	2.04E-01
5.60E-03	1.67E-01	2.49E-03	9.18E-05	5.71E-04	5.71E-04	1.76E-01	5.60E-03	1.67E-01	2.49E-03	9.18E-05	7.20E-05	5.71E-04	1.76E-01
4.74E-03	1.44E-01	2.43E-03	9.15E-05	5.60E-04	5.60E-04	1.52E-01	4.74E-03	1.44E-01	2.43E-03	9.15E-05	7.20E-05	5.60E-04	1.51E-01
1.47E-02	3.49E-01	2.71E-03	9.26E-05	6.00E-04	6.00E-04	3.68E-01	1.47E-02	3.49E-01	2.71E-03	9.26E-05	7.10E-05	6.00E-04	3.67E-01
1.06E-02	2.75E-01	2.68E-03	9.33E-05	5.97E-04	5.97E-04	2.89E-01	1.06E-02	2.75E-01	2.68E-03	9.33E-05	7.21E-05	5.97E-04	2.89E-01
8.21E-03	2.26E-01	2.64E-03	9.38E-05	5.94E-04	5.94E-04	2.38E-01	8.21E-03	2.26E-01	2.64E-03	9.38E-05	7.29E-05	5.94E-04	2.38E-01
6.65E-03	1.92E-01	2.61E-03	9.41E-05	5.89E-04	5.89E-04	2.02E-01	6.65E-03	1.92E-01	2.61E-03	9.41E-05	7.34E-05	5.89E-04	2.02E-01
6.28E-03	1.81E-01	2.68E-03	9.62E-05	6.11E-04	6.11E-04	1.92E-01	6.28E-03	1.81E-01	2.68E-03	9.62E-05	7.50E-05	6.11E-04	1.91E-01
5.19E-03	1.55E-01	2.62E-03	9.67E-05	5.96E-04	5.96E-04	1.64E-01	5.19E-03	1.55E-01	2.62E-03	9.67E-05	7.53E-05	5.96E-04	1.64E-01
9.39E-03	2.45E-01	2.81E-03	9.81E-05	6.30E-04	6.30E-04	2.59E-01	9.39E-03	2.45E-01	2.81E-03	9.81E-05	7.56E-05	6.30E-04	2.58E-01
7.49E-03	2.08E-01	2.78E-03	9.85E-05	6.26E-04	6.26E-04	2.20E-01	7.49E-03	2.08E-01	2.78E-03	9.85E-05	7.63E-05	6.26E-04	2.19E-01
6.12E-03	1.78E-01	2.74E-03	9.92E-05	6.16E-04	6.16E-04	1.89E-01	6.12E-03	1.78E-01	2.74E-03	9.92E-05	7.69E-05	6.16E-04	1.88E-01
1.24E-02	2.97E-01	2.91E-03	1.00E-04	6.44E-04	6.44E-04	3.14E-01	1.24E-02	2.97E-01	2.91E-03	1.00E-04	7.62E-05	6.44E-04	3.13E-01
9.31E-03	2.46E-01	2.88E-03	1.01E-04	6.41E-04	6.41E-04	2.59E-01	9.31E-03	2.46E-01	2.88E-03	1.01E-04	7.74E-05	6.41E-04	2.59E-01
7.37E-03	2.06E-01	2.85E-03	1.01E-04	6.35E-04	6.35E-04	2.18E-01	7.37E-03	2.06E-01	2.85E-03	1.01E-04	7.82E-05	6.35E-04	2.17E-01
8.77E-03	2.35E-01	2.89E-03	1.02E-04	6.43E-04	6.43E-04	2.48E-01	8.77E-03	2.35E-01	2.89E-03	1.02E-04	7.81E-05	6.43E-04	2.48E-01
7.04E-03	1.98E-01	2.86E-03	1.02E-04	6.38E-04	6.38E-04	2.10E-01	7.04E-03	1.98E-01	2.86E-03	1.02E-04	7.88E-05	6.38E-04	2.09E-01
1.14E-02	2.82E-01	3.00E-03	1.04E-04	6.61E-04	6.61E-04	2.97E-01	1.14E-02	2.82E-01	3.00E-03	1.04E-04	7.87E-05	6.61E-04	2.97E-01
8.73E-03	2.33E-01	2.97E-03	1.04E-04	6.59E-04	6.59E-04	2.46E-01	8.73E-03	2.33E-01	2.97E-03	1.04E-04	7.97E-05	6.59E-04	2.46E-01
7.05E-03	1.97E-01	2.94E-03	1.05E-04	6.56E-04	6.56E-04	2.09E-01	7.05E-03	1.97E-01	2.94E-03	1.05E-04	8.04E-05	6.56E-04	2.08E-01
1.58E-02	3.63E-01	3.11E-03	1.06E-04	6.73E-04	6.73E-04	3.83E-01	1.58E-02	3.63E-01	3.11E-03	1.06E-04	7.93E-05	6.73E-04	3.82E-01
1.13E-02	2.81E-01	3.08E-03	1.07E-04	6.74E-04	6.74E-04	2.97E-01	1.13E-02	2.81E-01	3.08E-03	1.07E-04	8.06E-05	6.74E-04	2.96E-01
8.67E-03	2.31E-01	3.05E-03	1.07E-04	6.75E-04	6.75E-04	2.44E-01	8.67E-03	2.31E-01	3.05E-03	1.07E-04	8.14E-05	6.75E-04	2.43E-01
3.94E-03	1.20E-01	2.90E-03	1.09E-04	6.29E-04	6.29E-04	1.28E-01	3.94E-03	1.20E-01	2.90E-03	1.09E-04	8.14E-05	6.29E-04	1.28E-01
3.52E-03	1.09E-01	2.88E-03	1.09E-04	6.22E-04	6.22E-04	1.17E-01	3.52E-03	1.09E-01	2.88E-03	1.09E-04	8.05E-05	6.22E-04	1.17E-01
3.09E-03	9.63E-02	2.82E-03	1.09E-04	5.99E-04	5.99E-04	1.03E-01	3.09E-03	9.63E-02	2.82E-03	1.09E-04	7.95E-05	5.99E-04	1.03E-01
5.19E-03	1.54E-01	3.07E-03	1.12E-04	6.63E-04	6.63E-04	1.64E-01	5.19E-03	1.54E-01	3.07E-03	1.12E-04	8.41E-05	6.63E-04	1.64E-01
4.48E-03	1.34E-01	3.03E-03	1.13E-04	6.54E-04	6.54E-04	1.43E-01	4.48E-03	1.34E-01	3.03E-03	1.13E-04	8.38E-05	6.54E-04	1.42E-01
3.96E-03	1.21E-01	3.02E-03	1.13E-04	6.48E-04	6.48E-04	1.29E-01	3.96E-03	1.21E-01	3.02E-03	1.13E-04	8.31E-05	6.48E-04	1.29E-01
3.55E-03	1.11E-01	3.00E-03	1.13E-04	6.40E-04	6.40E-04	1.19E-01	3.55E-03	1.11E-01	3.00E-03	1.13E-04	8.22E-05	6.40E-04	1.18E-01
6.10E-03	1.75E-01	3.19E-03	1.15E-04	6.84E-04	6.84E-04	1.86E-01	6.10E-03	1.75E-01	3.19E-03	1.15E-04	8.61E-05	6.84E-04	1.85E-01
5.22E-03	1.54E-01	3.19E-03	1.16E-04	6.80E-04	6.80E-04	1.64E-01	5.22E-03	1.54E-01	3.19E-03	1.16E-04	8.60E-05	6.80E-04	1.64E-01
4.62E-03	1.40E-01	3.18E-03	1.16E-04	6.82E-04	6.82E-04	1.49E-01	4.62E-03	1.40E-01	3.18E-03	1.16E-04	8.52E-05	6.82E-04	1.48E-01
4.03E-03	1.26E-01	3.17E-03	1.17E-04	6.72E-04	6.72E-04	1.34E-01	4.03E-03	1.26E-01	3.17E-03	1.17E-04	8.47E-05	6.72E-04	1.34E-01
1.23E-02	3.02E-01	3.35E-03	1.16E-04	7.14E-04	7.14E-04	3.19E-01	1.23E-02	3.02E-01	3.35E-03	1.16E-04	8.57E-05	7.14E-04	3.19E-01
8.35E-03	2.25E-01	3.32E-03	1.17E-04	7.09E-04	7.09E-04	2.38E-01	8.35E-03	2.25E-01	3.32E-03	1.17E-04	8.72E-05	7.09E-04	2.37E-01
6.79E-03	1.90E-01	3.31E-03	1.18E-04	7.05E-04	7.05E-04	2.02E-01	6.79E-03	1.90E-01	3.31E-03	1.18E-04	8.78E-05	7.05E-04	2.01E-01
1.07E-02	2.72E-01	3.45E-03	1.20E-04	7.30E-04	7.30E-04	2.88E-01	1.07E-02	2.72E-01	3.45E-03	1.20E-04	8.82E-05	7.30E-04	2.87E-01
8.32E-03	2.23E-01	3.44E-03	1.21E-04	7.27E-04	7.27E-04	2.36E-01	8.32E-03	2.23E-01	3.44E-03	1.21E-04	8.92E-05	7.27E-04	2.36E-01
6.75E-03	1.89E-01	3.44E-03	1.22E-04	7.22E-04	7.22E-04	2.01E-01	6.75E-03	1.89E-01	3.44E-03	1.22E-04	8.98E-05	7.22E-04	2.00E-01
1.06E-02	2.68E-01	3.58E-03	1.24E-04	7.44E-04	7.44E-04	2.84E-01	1.06E-02	2.68E-01	3.58E-03	1.24E-04	9.05E-05	7.44E-04	2.84E-01
8.17E-03	2.20E-01	3.58E-03	1.26E-04	7.38E-04	7.38E-04	2.33E-01	8.17E-03	2.20E-01	3.58E-03	1.26E-04	9.16E-05	7.38E-04	2.33E-01
1.40E-02	3.30E-01	3.73E-03	1.28E-04	7.60E-04	7.60E-04	3.49E-01	1.40E-02	3.30E-01	3.73E-03	1.28E-04	9.17E-05	7.60E-04	3.49E-01
1.01E-02	2.59E-01	3.73E-03	1.30E-04	7.54E-04	7.54E-04	2.75E-01	1.01E-02	2.59E-01	3.73E-03	1.30E-04	9.33E-05	7.54E-04	2.74E-01
1.37E-02	3.22E-01	3.90E-03	1.35E-04	7.74E-04	7.74E-04	3.41E-01	1.37E-02	3.22E-01	3.90E-03	1.35E-04	9.44E-05	7.74E-04	3.40E-01
9.81E-03	2.51E-01	3.90E-03	1.37E-04	7.69E-04	7.69E-04	2.66E-01	9.81E-03	2.51E-01	3.90E-03	1.37E-04	9.61E-05	7.69E-04	2.66E-01
7.28E-03	2.03E-01	4.15E-03	1.49E-04	7.85E-04	7.85E-04	2.16E-01	7.28E-03	2.03E-01	4.15E-03	1.49E-04	1.01E-04	7.85E-04	2.16E-01

5.87E-03	1.70E-01	4.10E-03	1.50E-04	7.76E-04	7.76E-04	1.81E-01	5.87E-03	1.70E-01	4.10E-03	1.50E-04	1.02E-04	7.76E-04	1.81E-01
4.87E-03	1.45E-01	4.04E-03	1.50E-04	7.67E-04	7.67E-04	1.55E-01	4.87E-03	1.45E-01	4.04E-03	1.50E-04	1.03E-04	7.67E-04	1.54E-01
8.23E-03	2.24E-01	4.36E-03	1.55E-04	8.06E-04	8.06E-04	2.38E-01	8.23E-03	2.24E-01	4.36E-03	1.55E-04	1.03E-04	8.06E-04	2.37E-01
6.46E-03	1.84E-01	4.31E-03	1.56E-04	7.98E-04	7.98E-04	1.96E-01	6.46E-03	1.84E-01	4.31E-03	1.56E-04	1.04E-04	7.98E-04	1.96E-01
5.33E-03	1.56E-01	4.25E-03	1.56E-04	7.90E-04	7.90E-04	1.67E-01	5.33E-03	1.56E-01	4.25E-03	1.56E-04	1.05E-04	7.90E-04	1.67E-01
9.59E-03	2.50E-01	4.59E-03	1.61E-04	8.30E-04	8.30E-04	2.66E-01	9.59E-03	2.50E-01	4.59E-03	1.61E-04	1.03E-04	8.30E-04	2.65E-01
7.26E-03	2.01E-01	4.54E-03	1.62E-04	8.22E-04	8.22E-04	2.14E-01	7.26E-03	2.01E-01	4.54E-03	1.62E-04	1.06E-04	8.22E-04	2.13E-01
5.87E-03	1.69E-01	4.48E-03	1.63E-04	8.17E-04	8.17E-04	1.81E-01	5.87E-03	1.69E-01	4.48E-03	1.63E-04	1.07E-04	8.17E-04	1.80E-01
8.33E-03	2.22E-01	4.80E-03	1.70E-04	8.47E-04	8.47E-04	2.37E-01	8.33E-03	2.22E-01	4.80E-03	1.70E-04	1.06E-04	8.47E-04	2.37E-01
6.52E-03	1.83E-01	4.73E-03	1.70E-04	8.42E-04	8.42E-04	1.96E-01	6.52E-03	1.83E-01	4.73E-03	1.70E-04	1.09E-04	8.42E-04	1.95E-01
1.83E-03	8.98E-03	1.72E-02	5.95E-04	9.71E-04	9.71E-04	3.05E-02	1.83E-03	8.98E-03	1.72E-02	5.95E-04	2.15E-04	9.71E-04	2.97E-02
1.74E-03	8.90E-03	1.66E-02	5.77E-04	9.62E-04	9.62E-04	2.98E-02	1.74E-03	8.90E-03	1.66E-02	5.77E-04	2.07E-04	9.62E-04	2.90E-02
1.96E-03	8.49E-03	1.78E-02	6.17E-04	9.97E-04	9.97E-04	3.08E-02	1.96E-03	8.49E-03	1.78E-02	6.17E-04	2.20E-04	9.97E-04	3.00E-02
1.87E-03	8.46E-03	1.74E-02	6.08E-04	9.99E-04	9.99E-04	3.04E-02	1.87E-03	8.46E-03	1.74E-02	6.08E-04	2.15E-04	9.99E-04	2.96E-02
4.29E-03	7.10E-03	2.59E-02	9.95E-04	1.32E-03	1.32E-03	4.09E-02	4.29E-03	7.10E-03	2.59E-02	9.95E-04	2.55E-04	1.32E-03	3.99E-02
3.68E-03	7.04E-03	2.46E-02	9.46E-04	1.30E-03	1.30E-03	3.89E-02	3.68E-03	7.04E-03	2.46E-02	9.46E-04	2.52E-04	1.30E-03	3.78E-02
5.77E-03	6.84E-03	2.85E-02	1.19E-03	1.43E-03	1.43E-03	4.52E-02	5.77E-03	6.84E-03	2.85E-02	1.19E-03	2.61E-04	1.43E-03	4.40E-02
4.66E-03	6.74E-03	2.67E-02	1.11E-03	1.41E-03	1.41E-03	4.21E-02	4.66E-03	6.74E-03	2.67E-02	1.11E-03	2.55E-04	1.41E-03	4.09E-02
3.49E-03	5.69E-03	4.48E-02	4.54E-03	7.12E-03	7.12E-03	7.28E-02	3.49E-03	5.69E-03	4.48E-02	4.54E-03	3.78E-03	7.12E-03	6.94E-02
3.04E-03	5.61E-03	4.23E-02	4.06E-03	6.58E-03	6.58E-03	6.82E-02	3.04E-03	5.61E-03	4.23E-02	4.06E-03	3.35E-03	6.58E-03	6.49E-02
3.97E-03	5.60E-03	4.66E-02	4.98E-03	8.07E-03	8.07E-03	7.73E-02	3.97E-03	5.60E-03	4.66E-02	4.98E-03	4.54E-03	8.07E-03	7.38E-02
3.43E-03	5.56E-03	4.50E-02	4.49E-03	7.60E-03	7.60E-03	7.37E-02	3.43E-03	5.56E-03	4.50E-02	4.49E-03	4.13E-03	7.60E-03	7.02E-02
5.04E-03	5.61E-03	5.21E-02	6.08E-03	1.00E-02	1.00E-02	8.89E-02	5.04E-03	5.61E-03	5.21E-02	6.08E-03	6.10E-03	1.00E-02	8.50E-02
4.12E-03	5.56E-03	4.96E-02	5.26E-03	9.14E-03	9.14E-03	8.28E-02	4.12E-03	5.56E-03	4.96E-02	5.26E-03	5.31E-03	9.14E-03	7.90E-02
5.16E-03	5.55E-03	5.47E-02	6.30E-03	1.11E-02	1.11E-02	9.38E-02	5.16E-03	5.55E-03	5.47E-02	6.30E-03	6.84E-03	1.11E-02	8.96E-02
4.22E-03	5.50E-03	5.17E-02	5.44E-03	1.00E-02	1.00E-02	8.68E-02	4.22E-03	5.50E-03	5.17E-02	5.44E-03	5.92E-03	1.00E-02	8.28E-02
2.44E-03	4.96E-03	5.04E-02	3.78E-03	1.02E-02	1.02E-02	8.18E-02	2.44E-03	4.96E-03	5.04E-02	3.78E-03	5.21E-03	1.02E-02	7.69E-02
2.24E-03	4.92E-03	4.80E-02	3.48E-03	9.56E-03	9.56E-03	7.77E-02	2.24E-03	4.92E-03	4.80E-02	3.48E-03	4.76E-03	9.56E-03	7.29E-02
2.68E-03	4.93E-03	5.30E-02	4.13E-03	1.11E-02	1.11E-02	8.69E-02	2.68E-03	4.93E-03	5.30E-02	4.13E-03	5.81E-03	1.11E-02	8.17E-02
2.43E-03	4.88E-03	5.04E-02	3.77E-03	1.04E-02	1.04E-02	8.22E-02	2.43E-03	4.88E-03	5.04E-02	3.77E-03	5.28E-03	1.04E-02	7.71E-02
2.98E-03	4.90E-03	5.60E-02	4.56E-03	1.21E-02	1.21E-02	9.26E-02	2.98E-03	4.90E-03	5.60E-02	4.56E-03	6.53E-03	1.21E-02	8.70E-02
2.68E-03	4.86E-03	5.36E-02	4.15E-03	1.14E-02	1.14E-02	8.80E-02	2.68E-03	4.86E-03	5.36E-02	4.15E-03	5.94E-03	1.14E-02	8.26E-02
3.39E-03	4.87E-03	5.97E-02	5.19E-03	1.35E-02	1.35E-02	1.00E-01	3.39E-03	4.87E-03	5.97E-02	5.19E-03	7.49E-03	1.35E-02	9.41E-02
2.97E-03	4.83E-03	5.63E-02	4.57E-03	1.24E-02	1.24E-02	9.34E-02	2.97E-03	4.83E-03	5.63E-02	4.57E-03	6.63E-03	1.24E-02	8.76E-02
2.28E-03	4.21E-03	5.72E-02	4.06E-03	1.35E-02	1.35E-02	9.47E-02	2.28E-03	4.21E-03	5.72E-02	4.06E-03	5.89E-03	1.35E-02	8.71E-02
2.14E-03	4.20E-03	5.60E-02	3.80E-03	1.31E-02	1.31E-02	9.23E-02	2.14E-03	4.20E-03	5.60E-02	3.80E-03	5.55E-03	1.31E-02	8.48E-02
2.02E-03	4.19E-03	5.47E-02	3.57E-03	1.27E-02	1.27E-02	8.98E-02	2.02E-03	4.19E-03	5.47E-02	3.57E-03	5.23E-03	1.27E-02	8.24E-02
2.47E-03	4.22E-03	5.99E-02	4.44E-03	1.43E-02	1.43E-02	9.98E-02	2.47E-03	4.22E-03	5.99E-02	4.44E-03	6.44E-03	1.43E-02	9.18E-02
2.30E-03	4.21E-03	5.88E-02	4.12E-03	1.39E-02	1.39E-02	9.72E-02	2.30E-03	4.21E-03	5.88E-02	4.12E-03	6.04E-03	1.39E-02	8.94E-02
2.16E-03	4.21E-03	5.76E-02	3.85E-03	1.34E-02	1.34E-02	9.46E-02	2.16E-03	4.21E-03	5.76E-02	3.85E-03	5.67E-03	1.34E-02	8.69E-02
1.67E-03	4.17E-03	4.86E-02	2.89E-03	1.10E-02	1.10E-02	7.92E-02	1.67E-03	4.17E-03	4.86E-02	2.89E-03	4.22E-03	1.10E-02	7.25E-02
1.60E-03	4.17E-03	4.77E-02	2.77E-03	1.07E-02	1.07E-02	7.76E-02	1.60E-03	4.17E-03	4.77E-02	2.77E-03	4.05E-03	1.07E-02	7.10E-02
1.76E-03	4.17E-03	5.07E-02	3.07E-03	1.15E-02	1.15E-02	8.28E-02	1.76E-03	4.17E-03	5.07E-02	3.07E-03	4.51E-03	1.15E-02	7.58E-02
1.68E-03	4.17E-03	4.97E-02	2.93E-03	1.12E-02	1.12E-02	8.10E-02	1.68E-03	4.17E-03	4.97E-02	2.93E-03	4.31E-03	1.12E-02	7.40E-02
1.30E-03	4.18E-03	4.39E-02	2.19E-03	9.77E-03	9.77E-03	7.11E-02	1.30E-03	4.18E-03	4.39E-02	2.19E-03	3.22E-03	9.77E-03	6.46E-02
1.27E-03	4.19E-03	4.32E-02	2.12E-03	9.62E-03	9.62E-03	7.00E-02	1.27E-03	4.19E-03	4.32E-02	2.12E-03	3.11E-03	9.62E-03	6.35E-02
1.24E-03	4.20E-03	4.26E-02	2.05E-03	9.47E-03	9.47E-03	6.90E-02	1.24E-03	4.20E-03	4.26E-02	2.05E-03	3.01E-03	9.47E-03	6.25E-02
1.35E-03	4.18E-03	4.55E-02	2.27E-03	1.01E-02	1.01E-02	7.36E-02	1.35E-03	4.18E-03	4.55E-02	2.27E-03	3.36E-03	1.01E-02	6.68E-02
1.31E-03	4.19E-03	4.48E-02	2.20E-03	9.96E-03	9.96E-03	7.24E-02	1.31E-03	4.19E-03	4.48E-02	2.20E-03	3.25E-03	9.96E-03	6.57E-02
1.28E-03	4.20E-03	4.41E-02	2.13E-03	9.82E-03	9.82E-03	7.13E-02	1.28E-03	4.20E-03	4.41E-02	2.13E-03	3.15E-03	9.82E-03	6.46E-02
1.40E-03	4.18E-03	4.72E-02	2.37E-03	1.05E-02	1.05E-02	7.62E-02	1.40E-03	4.18E-03	4.72E-02	2.37E-03	3.53E-03	1.05E-02	6.92E-02
1.36E-03	4.18E-03	4.64E-02	2.28E-03	1.03E-02	1.03E-02	7.48E-02	1.36E-03	4.18E-03	4.64E-02	2.28E-03	3.39E-03	1.03E-02	6.79E-02
1.32E-03	4.20E-03	4.56E-02	2.20E-03	1.02E-02	1.02E-02	7.37E-02	1.32E-03	4.20E-03	4.56E-02	2.20E-03	3.27E-03	1.02E-02	6.68E-02
4.33E-03	5.48E-02	1.92E-02	8.29E-04	2.27E-02	2.27E-02	1.25E-01	4.33E-03	5.48E-02	1.92E-02	8.29E-04	2.13E-04	2.27E-02	1.02E-01

4.00E-03	5.32E-02	1.88E-02	7.74E-04	2.21E-02	2.21E-02	1.21E-01	4.00E-03	5.32E-02	1.88E-02	7.74E-04	2.12E-04	2.21E-02	9.91E-02
3.72E-03	5.15E-02	1.85E-02	7.27E-04	2.15E-02	2.15E-02	1.17E-01	3.72E-03	5.15E-02	1.85E-02	7.27E-04	2.12E-04	2.15E-02	9.61E-02
3.48E-03	4.99E-02	1.82E-02	6.89E-04	2.10E-02	2.10E-02	1.14E-01	3.48E-03	4.99E-02	1.82E-02	6.89E-04	2.11E-04	2.10E-02	9.34E-02
3.27E-03	4.83E-02	1.79E-02	6.56E-04	2.04E-02	2.04E-02	1.11E-01	3.27E-03	4.83E-02	1.79E-02	6.56E-04	2.11E-04	2.04E-02	9.08E-02
3.09E-03	4.68E-02	1.77E-02	6.28E-04	1.99E-02	1.99E-02	1.08E-01	3.09E-03	4.68E-02	1.77E-02	6.28E-04	2.11E-04	1.99E-02	8.83E-02
2.93E-03	4.54E-02	1.74E-02	6.03E-04	1.95E-02	1.95E-02	1.05E-01	2.93E-03	4.54E-02	1.74E-02	6.03E-04	2.11E-04	1.95E-02	8.60E-02
2.78E-03	4.40E-02	1.72E-02	5.82E-04	1.90E-02	1.90E-02	1.03E-01	2.78E-03	4.40E-02	1.72E-02	5.82E-04	2.12E-04	1.90E-02	8.38E-02
2.65E-03	4.27E-02	1.70E-02	5.63E-04	1.85E-02	1.85E-02	1.00E-01	2.65E-03	4.27E-02	1.70E-02	5.63E-04	2.13E-04	1.85E-02	8.17E-02
2.54E-03	4.15E-02	1.68E-02	5.45E-04	1.81E-02	1.81E-02	9.75E-02	2.54E-03	4.15E-02	1.68E-02	5.45E-04	2.13E-04	1.81E-02	7.97E-02
2.43E-03	4.04E-02	1.66E-02	5.30E-04	1.77E-02	1.77E-02	9.53E-02	2.43E-03	4.04E-02	1.66E-02	5.30E-04	2.14E-04	1.77E-02	7.79E-02
2.33E-03	3.93E-02	1.64E-02	5.15E-04	1.73E-02	1.73E-02	9.31E-02	2.33E-03	3.93E-02	1.64E-02	5.15E-04	2.15E-04	1.73E-02	7.60E-02
2.25E-03	3.83E-02	1.62E-02	5.02E-04	1.69E-02	1.69E-02	9.12E-02	2.25E-03	3.83E-02	1.62E-02	5.02E-04	2.16E-04	1.69E-02	7.44E-02
2.17E-03	3.74E-02	1.60E-02	4.90E-04	1.66E-02	1.66E-02	8.92E-02	2.17E-03	3.74E-02	1.60E-02	4.90E-04	2.18E-04	1.66E-02	7.28E-02
2.09E-03	3.64E-02	1.58E-02	4.79E-04	1.62E-02	1.62E-02	8.72E-02	2.09E-03	3.64E-02	1.58E-02	4.79E-04	2.19E-04	1.62E-02	7.12E-02
2.01E-03	3.50E-02	1.56E-02	4.69E-04	1.59E-02	1.59E-02	8.49E-02	2.01E-03	3.50E-02	1.56E-02	4.69E-04	2.20E-04	1.59E-02	6.92E-02
5.02E-03	7.80E-02	1.79E-02	7.58E-04	2.43E-02	2.43E-02	1.50E-01	5.02E-03	7.80E-02	1.79E-02	7.58E-04	2.07E-04	2.43E-02	1.26E-01
4.58E-03	7.32E-02	1.76E-02	7.11E-04	2.36E-02	2.36E-02	1.43E-01	4.58E-03	7.32E-02	1.76E-02	7.11E-04	2.06E-04	2.36E-02	1.20E-01
4.22E-03	6.91E-02	1.73E-02	6.73E-04	2.29E-02	2.29E-02	1.37E-01	4.22E-03	6.91E-02	1.73E-02	6.73E-04	2.05E-04	2.29E-02	1.14E-01
3.91E-03	6.54E-02	1.71E-02	6.40E-04	2.22E-02	2.22E-02	1.31E-01	3.91E-03	6.54E-02	1.71E-02	6.40E-04	2.05E-04	2.22E-02	1.09E-01
3.64E-03	6.21E-02	1.69E-02	6.11E-04	2.16E-02	2.16E-02	1.26E-01	3.64E-03	6.21E-02	1.69E-02	6.11E-04	2.04E-04	2.16E-02	1.05E-01
3.42E-03	5.92E-02	1.67E-02	5.87E-04	2.10E-02	2.10E-02	1.22E-01	3.42E-03	5.92E-02	1.67E-02	5.87E-04	2.04E-04	2.10E-02	1.01E-01
3.21E-03	5.65E-02	1.65E-02	5.65E-04	2.04E-02	2.04E-02	1.17E-01	3.21E-03	5.65E-02	1.65E-02	5.65E-04	2.04E-04	2.04E-02	9.73E-02
3.04E-03	5.41E-02	1.63E-02	5.46E-04	1.99E-02	1.99E-02	1.14E-01	3.04E-03	5.41E-02	1.63E-02	5.46E-04	2.04E-04	1.99E-02	9.40E-02
2.89E-03	5.19E-02	1.61E-02	5.30E-04	1.93E-02	1.93E-02	1.10E-01	2.89E-03	5.19E-02	1.61E-02	5.30E-04	2.05E-04	1.93E-02	9.10E-02
2.75E-03	4.99E-02	1.59E-02	5.14E-04	1.88E-02	1.88E-02	1.07E-01	2.75E-03	4.99E-02	1.59E-02	5.14E-04	2.05E-04	1.88E-02	8.81E-02
2.63E-03	4.82E-02	1.57E-02	5.01E-04	1.84E-02	1.84E-02	1.04E-01	2.63E-03	4.82E-02	1.57E-02	5.01E-04	2.06E-04	1.84E-02	8.56E-02
2.51E-03	4.65E-02	1.56E-02	4.88E-04	1.79E-02	1.79E-02	1.01E-01	2.51E-03	4.65E-02	1.56E-02	4.88E-04	2.07E-04	1.79E-02	8.32E-02
2.41E-03	4.51E-02	1.54E-02	4.77E-04	1.76E-02	1.76E-02	9.85E-02	2.41E-03	4.51E-02	1.54E-02	4.77E-04	2.07E-04	1.76E-02	8.12E-02
2.32E-03	4.36E-02	1.52E-02	4.66E-04	1.71E-02	1.71E-02	9.60E-02	2.32E-03	4.36E-02	1.52E-02	4.66E-04	2.08E-04	1.71E-02	7.90E-02
2.23E-03	4.21E-02	1.51E-02	4.56E-04	1.67E-02	1.67E-02	9.34E-02	2.23E-03	4.21E-02	1.51E-02	4.56E-04	2.10E-04	1.67E-02	7.69E-02
2.14E-03	4.05E-02	1.49E-02	4.47E-04	1.63E-02	1.63E-02	9.07E-02	2.14E-03	4.05E-02	1.49E-02	4.47E-04	2.11E-04	1.63E-02	7.46E-02
5.99E-03	1.09E-01	1.66E-02	6.71E-04	2.60E-02	2.60E-02	1.85E-01	5.99E-03	1.09E-01	1.66E-02	6.71E-04	2.02E-04	2.60E-02	1.59E-01
5.37E-03	9.96E-02	1.64E-02	6.38E-04	2.51E-02	2.51E-02	1.72E-01	5.37E-03	9.96E-02	1.64E-02	6.38E-04	2.01E-04	2.51E-02	1.47E-01
4.87E-03	9.14E-02	1.62E-02	6.09E-04	2.42E-02	2.42E-02	1.62E-01	4.87E-03	9.14E-02	1.62E-02	6.09E-04	2.00E-04	2.42E-02	1.38E-01
4.46E-03	8.47E-02	1.60E-02	5.84E-04	2.34E-02	2.34E-02	1.53E-01	4.46E-03	8.47E-02	1.60E-02	5.84E-04	1.99E-04	2.34E-02	1.29E-01
4.12E-03	7.90E-02	1.58E-02	5.62E-04	2.27E-02	2.27E-02	1.45E-01	4.12E-03	7.90E-02	1.58E-02	5.62E-04	1.98E-04	2.27E-02	1.22E-01
3.83E-03	7.41E-02	1.57E-02	5.42E-04	2.20E-02	2.20E-02	1.38E-01	3.83E-03	7.41E-02	1.57E-02	5.42E-04	1.98E-04	2.20E-02	1.16E-01
3.58E-03	6.98E-02	1.55E-02	5.24E-04	2.13E-02	2.13E-02	1.32E-01	3.58E-03	6.98E-02	1.55E-02	5.24E-04	1.98E-04	2.13E-02	1.11E-01
3.36E-03	6.61E-02	1.54E-02	5.09E-04	2.07E-02	2.07E-02	1.27E-01	3.36E-03	6.61E-02	1.54E-02	5.09E-04	1.97E-04	2.07E-02	1.06E-01
3.17E-03	6.27E-02	1.52E-02	4.95E-04	2.01E-02	2.01E-02	1.22E-01	3.17E-03	6.27E-02	1.52E-02	4.95E-04	1.98E-04	2.01E-02	1.02E-01
3.01E-03	5.98E-02	1.51E-02	4.82E-04	1.96E-02	1.96E-02	1.18E-01	3.01E-03	5.98E-02	1.51E-02	4.82E-04	1.98E-04	1.96E-02	9.81E-02
2.86E-03	5.72E-02	1.49E-02	4.71E-04	1.91E-02	1.91E-02	1.14E-01	2.86E-03	5.72E-02	1.49E-02	4.71E-04	1.98E-04	1.91E-02	9.47E-02
2.72E-03	5.47E-02	1.48E-02	4.60E-04	1.86E-02	1.86E-02	1.10E-01	2.72E-03	5.47E-02	1.48E-02	4.60E-04	1.99E-04	1.86E-02	9.15E-02
2.61E-03	5.27E-02	1.46E-02	4.50E-04	1.81E-02	1.81E-02	1.07E-01	2.61E-03	5.27E-02	1.46E-02	4.50E-04	1.99E-04	1.81E-02	8.87E-02
2.50E-03	5.07E-02	1.45E-02	4.41E-04	1.77E-02	1.77E-02	1.04E-01	2.50E-03	5.07E-02	1.45E-02	4.41E-04	2.00E-04	1.77E-02	8.60E-02
2.39E-03	4.88E-02	1.44E-02	4.32E-04	1.72E-02	1.72E-02	1.00E-01	2.39E-03	4.88E-02	1.44E-02	4.32E-04	2.01E-04	1.72E-02	8.34E-02
2.28E-03	4.63E-02	1.43E-02	4.24E-04	1.68E-02	1.68E-02	9.67E-02	2.28E-03	4.63E-02	1.43E-02	4.24E-04	2.02E-04	1.68E-02	8.02E-02
6.49E-03	1.33E-01	1.52E-02	5.63E-04	2.65E-02	2.65E-02	2.09E-01	6.49E-03	1.33E-01	1.52E-02	5.63E-04	1.97E-04	2.65E-02	1.82E-01
5.78E-03	1.20E-01	1.51E-02	5.44E-04	2.55E-02	2.55E-02	1.92E-01	5.78E-03	1.20E-01	1.51E-02	5.44E-04	1.95E-04	2.55E-02	1.67E-01
5.22E-03	1.09E-01	1.50E-02	5.27E-04	2.46E-02	2.46E-02	1.79E-01	5.22E-03	1.09E-01	1.50E-02	5.27E-04	1.94E-04	2.46E-02	1.54E-01
4.75E-03	9.96E-02	1.48E-02	5.11E-04	2.37E-02	2.37E-02	1.67E-01	4.75E-03	9.96E-02	1.48E-02	5.11E-04	1.93E-04	2.37E-02	1.44E-01
4.37E-03	9.20E-02	1.47E-02	4.97E-04	2.29E-02	2.29E-02	1.57E-01	4.37E-03	9.20E-02	1.47E-02	4.97E-04	1.92E-04	2.29E-02	1.35E-01
4.05E-03	8.57E-02	1.46E-02	4.83E-04	2.22E-02	2.22E-02	1.49E-01	4.05E-03	8.57E-02	1.46E-02	4.83E-04	1.92E-04	2.22E-02	1.27E-01
3.77E-03	8.02E-02	1.45E-02	4.71E-04	2.15E-02	2.15E-02	1.42E-01	3.77E-03	8.02E-02	1.45E-02	4.71E-04	1.91E-04	2.15E-02	1.21E-01

3.53E-03	7.54E-02	1.44E-02	4.59E-04	2.09E-02	2.09E-02	1.35E-01	3.53E-03	7.54E-02	1.44E-02	4.59E-04	1.91E-04	2.09E-02	1.15E-01
3.32E-03	7.12E-02	1.43E-02	4.49E-04	2.03E-02	2.03E-02	1.30E-01	3.32E-03	7.12E-02	1.43E-02	4.49E-04	1.91E-04	2.03E-02	1.10E-01
3.14E-03	6.76E-02	1.41E-02	4.40E-04	1.97E-02	1.97E-02	1.25E-01	3.14E-03	6.76E-02	1.41E-02	4.40E-04	1.91E-04	1.97E-02	1.05E-01
2.98E-03	6.44E-02	1.40E-02	4.31E-04	1.92E-02	1.92E-02	1.20E-01	2.98E-03	6.44E-02	1.40E-02	4.31E-04	1.91E-04	1.92E-02	1.01E-01
2.83E-03	6.12E-02	1.39E-02	4.23E-04	1.87E-02	1.87E-02	1.16E-01	2.83E-03	6.12E-02	1.39E-02	4.23E-04	1.92E-04	1.87E-02	9.73E-02
2.70E-03	5.85E-02	1.38E-02	4.16E-04	1.82E-02	1.82E-02	1.12E-01	2.70E-03	5.85E-02	1.38E-02	4.16E-04	1.92E-04	1.82E-02	9.38E-02
2.58E-03	5.61E-02	1.37E-02	4.09E-04	1.77E-02	1.77E-02	1.08E-01	2.58E-03	5.61E-02	1.37E-02	4.09E-04	1.93E-04	1.77E-02	9.06E-02
2.43E-03	5.22E-02	1.36E-02	4.01E-04	1.70E-02	1.70E-02	1.03E-01	2.43E-03	5.22E-02	1.36E-02	4.01E-04	1.95E-04	1.70E-02	8.58E-02
7.12E-03	1.56E-01	1.40E-02	4.84E-04	2.67E-02	2.67E-02	2.31E-01	7.12E-03	1.56E-01	1.40E-02	4.84E-04	1.91E-04	2.67E-02	2.04E-01
6.29E-03	1.39E-01	1.40E-02	4.73E-04	2.56E-02	2.56E-02	2.11E-01	6.29E-03	1.39E-01	1.40E-02	4.73E-04	1.90E-04	2.56E-02	1.85E-01
5.63E-03	1.25E-01	1.39E-02	4.63E-04	2.47E-02	2.47E-02	1.94E-01	5.63E-03	1.25E-01	1.39E-02	4.63E-04	1.89E-04	2.47E-02	1.70E-01
5.10E-03	1.14E-01	1.38E-02	4.53E-04	2.38E-02	2.38E-02	1.81E-01	5.10E-03	1.14E-01	1.38E-02	4.53E-04	1.88E-04	2.38E-02	1.57E-01
4.66E-03	1.05E-01	1.37E-02	4.43E-04	2.30E-02	2.30E-02	1.70E-01	4.66E-03	1.05E-01	1.37E-02	4.43E-04	1.87E-04	2.30E-02	1.47E-01
4.30E-03	9.71E-02	1.37E-02	4.34E-04	2.23E-02	2.23E-02	1.60E-01	4.30E-03	9.71E-02	1.37E-02	4.34E-04	1.86E-04	2.23E-02	1.38E-01
3.99E-03	9.05E-02	1.36E-02	4.25E-04	2.16E-02	2.16E-02	1.52E-01	3.99E-03	9.05E-02	1.36E-02	4.25E-04	1.86E-04	2.16E-02	1.30E-01
3.73E-03	8.48E-02	1.35E-02	4.17E-04	2.09E-02	2.09E-02	1.44E-01	3.73E-03	8.48E-02	1.35E-02	4.17E-04	1.85E-04	2.09E-02	1.24E-01
3.50E-03	7.98E-02	1.34E-02	4.10E-04	2.03E-02	2.03E-02	1.38E-01	3.50E-03	7.98E-02	1.34E-02	4.10E-04	1.85E-04	2.03E-02	1.18E-01
3.29E-03	7.53E-02	1.33E-02	4.03E-04	1.97E-02	1.97E-02	1.32E-01	3.29E-03	7.53E-02	1.33E-02	4.03E-04	1.85E-04	1.97E-02	1.12E-01
3.11E-03	7.12E-02	1.32E-02	3.97E-04	1.92E-02	1.92E-02	1.26E-01	3.11E-03	7.12E-02	1.32E-02	3.97E-04	1.85E-04	1.92E-02	1.07E-01
2.95E-03	6.76E-02	1.31E-02	3.91E-04	1.86E-02	1.86E-02	1.21E-01	2.95E-03	6.76E-02	1.31E-02	3.91E-04	1.86E-04	1.86E-02	1.03E-01
2.80E-03	6.42E-02	1.30E-02	3.85E-04	1.81E-02	1.81E-02	1.17E-01	2.80E-03	6.42E-02	1.30E-02	3.85E-04	1.86E-04	1.81E-02	9.88E-02
2.62E-03	5.92E-02	1.30E-02	3.79E-04	1.73E-02	1.73E-02	1.10E-01	2.62E-03	5.92E-02	1.30E-02	3.79E-04	1.88E-04	1.73E-02	9.26E-02
6.92E-03	1.58E-01	1.30E-02	4.19E-04	2.55E-02	2.55E-02	2.29E-01	6.92E-03	1.58E-01	1.30E-02	4.19E-04	1.85E-04	2.55E-02	2.04E-01
6.13E-03	1.42E-01	1.30E-02	4.12E-04	2.45E-02	2.45E-02	2.10E-01	6.13E-03	1.42E-01	1.30E-02	4.12E-04	1.84E-04	2.45E-02	1.86E-01
5.50E-03	1.29E-01	1.29E-02	4.06E-04	2.37E-02	2.37E-02	1.95E-01	5.50E-03	1.29E-01	1.29E-02	4.06E-04	1.83E-04	2.37E-02	1.71E-01
5.01E-03	1.18E-01	1.29E-02	3.99E-04	2.29E-02	2.29E-02	1.82E-01	5.01E-03	1.18E-01	1.29E-02	3.99E-04	1.82E-04	2.29E-02	1.59E-01
4.59E-03	1.09E-01	1.28E-02	3.93E-04	2.22E-02	2.22E-02	1.71E-01	4.59E-03	1.09E-01	1.28E-02	3.93E-04	1.81E-04	2.22E-02	1.49E-01
4.24E-03	1.01E-01	1.27E-02	3.87E-04	2.15E-02	2.15E-02	1.61E-01	4.24E-03	1.01E-01	1.27E-02	3.87E-04	1.80E-04	2.15E-02	1.40E-01
3.95E-03	9.44E-02	1.27E-02	3.82E-04	2.09E-02	2.09E-02	1.53E-01	3.95E-03	9.44E-02	1.27E-02	3.82E-04	1.80E-04	2.09E-02	1.32E-01
3.68E-03	8.84E-02	1.26E-02	3.76E-04	2.02E-02	2.02E-02	1.45E-01	3.68E-03	8.84E-02	1.26E-02	3.76E-04	1.79E-04	2.02E-02	1.25E-01
3.46E-03	8.30E-02	1.26E-02	3.71E-04	1.96E-02	1.96E-02	1.39E-01	3.46E-03	8.30E-02	1.26E-02	3.71E-04	1.79E-04	1.96E-02	1.19E-01
3.26E-03	7.84E-02	1.25E-02	3.66E-04	1.90E-02	1.90E-02	1.33E-01	3.26E-03	7.84E-02	1.25E-02	3.66E-04	1.80E-04	1.90E-02	1.14E-01
3.08E-03	7.40E-02	1.24E-02	3.62E-04	1.85E-02	1.85E-02	1.27E-01	3.08E-03	7.40E-02	1.24E-02	3.62E-04	1.80E-04	1.85E-02	1.08E-01
2.87E-03	6.81E-02	1.24E-02	3.57E-04	1.77E-02	1.77E-02	1.19E-01	2.87E-03	6.81E-02	1.24E-02	3.57E-04	1.81E-04	1.77E-02	1.02E-01
6.74E-03	1.61E-01	1.21E-02	3.72E-04	2.43E-02	2.43E-02	2.29E-01	6.74E-03	1.61E-01	1.21E-02	3.72E-04	1.79E-04	2.43E-02	2.04E-01
6.00E-03	1.45E-01	1.21E-02	3.68E-04	2.35E-02	2.35E-02	2.10E-01	6.00E-03	1.45E-01	1.21E-02	3.68E-04	1.77E-04	2.35E-02	1.87E-01
5.41E-03	1.32E-01	1.21E-02	3.64E-04	2.27E-02	2.27E-02	1.95E-01	5.41E-03	1.32E-01	1.21E-02	3.64E-04	1.76E-04	2.27E-02	1.73E-01
4.93E-03	1.21E-01	1.20E-02	3.59E-04	2.20E-02	2.20E-02	1.82E-01	4.93E-03	1.21E-01	1.20E-02	3.59E-04	1.76E-04	2.20E-02	1.61E-01
4.53E-03	1.12E-01	1.20E-02	3.55E-04	2.13E-02	2.13E-02	1.72E-01	4.53E-03	1.12E-01	1.20E-02	3.55E-04	1.75E-04	2.13E-02	1.50E-01
4.19E-03	1.04E-01	1.20E-02	3.51E-04	2.06E-02	2.06E-02	1.62E-01	4.19E-03	1.04E-01	1.20E-02	3.51E-04	1.74E-04	2.06E-02	1.41E-01
3.89E-03	9.70E-02	1.19E-02	3.47E-04	2.00E-02	2.00E-02	1.53E-01	3.89E-03	9.70E-02	1.19E-02	3.47E-04	1.74E-04	2.00E-02	1.33E-01
3.64E-03	9.09E-02	1.19E-02	3.43E-04	1.94E-02	1.94E-02	1.46E-01	3.64E-03	9.09E-02	1.19E-02	3.43E-04	1.74E-04	1.94E-02	1.26E-01
3.40E-03	8.48E-02	1.18E-02	3.39E-04	1.87E-02	1.87E-02	1.38E-01	3.40E-03	8.48E-02	1.18E-02	3.39E-04	1.74E-04	1.87E-02	1.19E-01
3.18E-03	7.85E-02	1.18E-02	3.36E-04	1.81E-02	1.81E-02	1.30E-01	3.18E-03	7.85E-02	1.18E-02	3.36E-04	1.75E-04	1.81E-02	1.12E-01
8.66E-03	2.07E-01	1.14E-02	3.42E-04	2.47E-02	2.47E-02	2.77E-01	8.66E-03	2.07E-01	1.14E-02	3.42E-04	1.75E-04	2.47E-02	2.52E-01
7.48E-03	1.82E-01	1.14E-02	3.40E-04	2.38E-02	2.38E-02	2.49E-01	7.48E-03	1.82E-01	1.14E-02	3.40E-04	1.74E-04	2.38E-02	2.26E-01
6.59E-03	1.63E-01	1.14E-02	3.37E-04	2.31E-02	2.31E-02	2.28E-01	6.59E-03	1.63E-01	1.14E-02	3.37E-04	1.73E-04	2.31E-02	2.05E-01
5.90E-03	1.48E-01	1.14E-02	3.34E-04	2.23E-02	2.23E-02	2.10E-01	5.90E-03	1.48E-01	1.14E-02	3.34E-04	1.72E-04	2.23E-02	1.88E-01
5.32E-03	1.34E-01	1.14E-02	3.31E-04	2.16E-02	2.16E-02	1.95E-01	5.32E-03	1.34E-01	1.14E-02	3.31E-04	1.71E-04	2.16E-02	1.73E-01
4.86E-03	1.24E-01	1.13E-02	3.28E-04	2.09E-02	2.09E-02	1.82E-01	4.86E-03	1.24E-01	1.13E-02	3.28E-04	1.70E-04	2.09E-02	1.61E-01
4.46E-03	1.14E-01	1.13E-02	3.25E-04	2.03E-02	2.03E-02	1.71E-01	4.46E-03	1.14E-01	1.13E-02	3.25E-04	1.70E-04	2.03E-02	1.51E-01
4.13E-03	1.06E-01	1.13E-02	3.22E-04	1.97E-02	1.97E-02	1.61E-01	4.13E-03	1.06E-01	1.13E-02	3.22E-04	1.69E-04	1.97E-02	1.42E-01
3.82E-03	9.82E-02	1.13E-02	3.19E-04	1.90E-02	1.90E-02	1.52E-01	3.82E-03	9.82E-02	1.13E-02	3.19E-04	1.69E-04	1.90E-02	1.33E-01
3.58E-03	9.21E-02	1.12E-02	3.16E-04	1.85E-02	1.85E-02	1.44E-01	3.58E-03	9.21E-02	1.12E-02	3.16E-04	1.69E-04	1.85E-02	1.26E-01

8.41E-03	2.07E-01	1.07E-02	3.13E-04	2.33E-02	2.33E-02	2.73E-01	8.41E-03	2.07E-01	1.07E-02	3.13E-04	1.69E-04	2.33E-02	2.50E-01
7.32E-03	1.83E-01	1.07E-02	3.11E-04	2.26E-02	2.26E-02	2.47E-01	7.32E-03	1.83E-01	1.07E-02	3.11E-04	1.68E-04	2.26E-02	2.25E-01
6.46E-03	1.64E-01	1.07E-02	3.09E-04	2.18E-02	2.18E-02	2.26E-01	6.46E-03	1.64E-01	1.07E-02	3.09E-04	1.67E-04	2.18E-02	2.04E-01
5.78E-03	1.49E-01	1.07E-02	3.07E-04	2.11E-02	2.11E-02	2.08E-01	5.78E-03	1.49E-01	1.07E-02	3.07E-04	1.66E-04	2.11E-02	1.87E-01
5.23E-03	1.36E-01	1.07E-02	3.05E-04	2.05E-02	2.05E-02	1.93E-01	5.23E-03	1.36E-01	1.07E-02	3.05E-04	1.65E-04	2.05E-02	1.73E-01
4.77E-03	1.25E-01	1.07E-02	3.03E-04	1.98E-02	1.98E-02	1.80E-01	4.77E-03	1.25E-01	1.07E-02	3.03E-04	1.65E-04	1.98E-02	1.61E-01
4.36E-03	1.14E-01	1.07E-02	3.00E-04	1.91E-02	1.91E-02	1.67E-01	4.36E-03	1.14E-01	1.07E-02	3.00E-04	1.65E-04	1.91E-02	1.48E-01
4.05E-03	1.06E-01	1.07E-02	2.98E-04	1.86E-02	1.86E-02	1.58E-01	4.05E-03	1.06E-01	1.07E-02	2.98E-04	1.64E-04	1.86E-02	1.40E-01
9.64E-03	2.38E-01	1.01E-02	2.90E-04	2.27E-02	2.27E-02	3.03E-01	9.64E-03	2.38E-01	1.01E-02	2.90E-04	1.65E-04	2.27E-02	2.81E-01
8.22E-03	2.07E-01	1.02E-02	2.89E-04	2.20E-02	2.20E-02	2.70E-01	8.22E-03	2.07E-01	1.02E-02	2.89E-04	1.64E-04	2.20E-02	2.48E-01
7.14E-03	1.83E-01	1.02E-02	2.88E-04	2.12E-02	2.12E-02	2.43E-01	7.14E-03	1.83E-01	1.02E-02	2.88E-04	1.63E-04	2.12E-02	2.22E-01
6.32E-03	1.64E-01	1.02E-02	2.86E-04	2.06E-02	2.06E-02	2.22E-01	6.32E-03	1.64E-01	1.02E-02	2.86E-04	1.62E-04	2.06E-02	2.02E-01
5.66E-03	1.49E-01	1.02E-02	2.85E-04	1.99E-02	1.99E-02	2.05E-01	5.66E-03	1.49E-01	1.02E-02	2.85E-04	1.61E-04	1.99E-02	1.85E-01
5.07E-03	1.34E-01	1.02E-02	2.83E-04	1.92E-02	1.92E-02	1.87E-01	5.07E-03	1.34E-01	1.02E-02	2.83E-04	1.61E-04	1.92E-02	1.68E-01
4.68E-03	1.24E-01	1.02E-02	2.81E-04	1.88E-02	1.88E-02	1.77E-01	4.68E-03	1.24E-01	1.02E-02	2.81E-04	1.60E-04	1.88E-02	1.58E-01
7.98E-03	2.10E-01	7.62E-03	2.01E-04	1.56E-02	1.56E-02	2.57E-01	7.98E-03	2.10E-01	7.62E-03	2.01E-04	1.33E-04	1.56E-02	2.42E-01
7.06E-03	1.88E-01	7.65E-03	2.01E-04	1.52E-02	1.52E-02	2.33E-01	7.06E-03	1.88E-01	7.65E-03	2.01E-04	1.33E-04	1.52E-02	2.18E-01
6.29E-03	1.67E-01	7.67E-03	2.01E-04	1.48E-02	1.48E-02	2.11E-01	6.29E-03	1.67E-01	7.67E-03	2.01E-04	1.33E-04	1.48E-02	1.96E-01
5.65E-03	1.50E-01	7.68E-03	2.01E-04	1.45E-02	1.45E-02	1.93E-01	5.65E-03	1.50E-01	7.68E-03	2.01E-04	1.34E-04	1.45E-02	1.78E-01
5.12E-03	1.36E-01	7.69E-03	2.01E-04	1.41E-02	1.41E-02	1.77E-01	5.12E-03	1.36E-01	7.69E-03	2.01E-04	1.34E-04	1.41E-02	1.63E-01
4.66E-03	1.24E-01	7.70E-03	2.00E-04	1.37E-02	1.37E-02	1.63E-01	4.66E-03	1.24E-01	7.70E-03	2.00E-04	1.34E-04	1.37E-02	1.50E-01
4.26E-03	1.12E-01	7.70E-03	2.00E-04	1.33E-02	1.33E-02	1.51E-01	4.26E-03	1.12E-01	7.70E-03	2.00E-04	1.34E-04	1.33E-02	1.38E-01
3.93E-03	1.03E-01	7.69E-03	1.99E-04	1.29E-02	1.29E-02	1.41E-01	3.93E-03	1.03E-01	7.69E-03	1.99E-04	1.35E-04	1.29E-02	1.28E-01
3.64E-03	9.50E-02	7.68E-03	1.99E-04	1.26E-02	1.26E-02	1.32E-01	3.64E-03	9.50E-02	7.68E-03	1.99E-04	1.35E-04	1.26E-02	1.19E-01
1.16E-02	2.94E-01	7.28E-03	1.92E-04	1.56E-02	1.56E-02	3.44E-01	1.16E-02	2.94E-01	7.28E-03	1.92E-04	1.30E-04	1.56E-02	3.28E-01
9.84E-03	2.55E-01	7.31E-03	1.92E-04	1.53E-02	1.53E-02	3.03E-01	9.84E-03	2.55E-01	7.31E-03	1.92E-04	1.30E-04	1.53E-02	2.87E-01
8.53E-03	2.23E-01	7.34E-03	1.92E-04	1.49E-02	1.49E-02	2.69E-01	8.53E-03	2.23E-01	7.34E-03	1.92E-04	1.30E-04	1.49E-02	2.55E-01
7.41E-03	1.95E-01	7.37E-03	1.92E-04	1.45E-02	1.45E-02	2.39E-01	7.41E-03	1.95E-01	7.37E-03	1.92E-04	1.30E-04	1.45E-02	2.25E-01
6.49E-03	1.70E-01	7.39E-03	1.93E-04	1.41E-02	1.41E-02	2.12E-01	6.49E-03	1.70E-01	7.39E-03	1.93E-04	1.30E-04	1.41E-02	1.98E-01
5.80E-03	1.52E-01	7.40E-03	1.92E-04	1.38E-02	1.38E-02	1.93E-01	5.80E-03	1.52E-01	7.40E-03	1.92E-04	1.30E-04	1.38E-02	1.79E-01
5.21E-03	1.36E-01	7.41E-03	1.92E-04	1.34E-02	1.34E-02	1.76E-01	5.21E-03	1.36E-01	7.41E-03	1.92E-04	1.30E-04	1.34E-02	1.63E-01
4.76E-03	1.25E-01	7.41E-03	1.92E-04	1.30E-02	1.30E-02	1.63E-01	4.76E-03	1.25E-01	7.41E-03	1.92E-04	1.31E-04	1.30E-02	1.50E-01
4.38E-03	1.15E-01	7.41E-03	1.92E-04	1.27E-02	1.27E-02	1.53E-01	4.38E-03	1.15E-01	7.41E-03	1.92E-04	1.31E-04	1.27E-02	1.40E-01
1.05E-02	2.71E-01	7.06E-03	1.84E-04	1.46E-02	1.46E-02	3.18E-01	1.05E-02	2.71E-01	7.06E-03	1.84E-04	1.27E-04	1.46E-02	3.04E-01
8.83E-03	2.28E-01	7.09E-03	1.85E-04	1.42E-02	1.42E-02	2.72E-01	8.83E-03	2.28E-01	7.09E-03	1.85E-04	1.27E-04	1.42E-02	2.58E-01
7.63E-03	1.97E-01	7.11E-03	1.85E-04	1.38E-02	1.38E-02	2.39E-01	7.63E-03	1.97E-01	7.11E-03	1.85E-04	1.27E-04	1.38E-02	2.25E-01
6.67E-03	1.72E-01	7.13E-03	1.85E-04	1.34E-02	1.34E-02	2.13E-01	6.67E-03	1.72E-01	7.13E-03	1.85E-04	1.27E-04	1.34E-02	1.99E-01
5.94E-03	1.54E-01	7.14E-03	1.85E-04	1.31E-02	1.31E-02	1.93E-01	5.94E-03	1.54E-01	7.14E-03	1.85E-04	1.27E-04	1.31E-02	1.80E-01
5.43E-03	1.43E-01	7.14E-03	1.85E-04	1.29E-02	1.29E-02	1.81E-01	5.43E-03	1.43E-01	7.14E-03	1.85E-04	1.27E-04	1.29E-02	1.68E-01
1.11E-02	2.85E-01	6.82E-03	1.77E-04	1.39E-02	1.39E-02	3.30E-01	1.11E-02	2.85E-01	6.82E-03	1.77E-04	1.23E-04	1.39E-02	3.17E-01
9.41E-03	2.43E-01	6.84E-03	1.78E-04	1.36E-02	1.36E-02	2.86E-01	9.41E-03	2.43E-01	6.84E-03	1.78E-04	1.23E-04	1.36E-02	2.73E-01
8.11E-03	2.10E-01	6.86E-03	1.78E-04	1.33E-02	1.33E-02	2.51E-01	8.11E-03	2.10E-01	6.86E-03	1.78E-04	1.23E-04	1.33E-02	2.38E-01
7.15E-03	1.87E-01	6.87E-03	1.78E-04	1.30E-02	1.30E-02	2.27E-01	7.15E-03	1.87E-01	6.87E-03	1.78E-04	1.23E-04	1.30E-02	2.14E-01
9.21E-03	2.39E-01	6.80E-03	1.76E-04	1.34E-02	1.34E-02	2.82E-01	9.21E-03	2.39E-01	6.80E-03	1.76E-04	1.23E-04	1.34E-02	2.69E-01
7.97E-03	2.07E-01	6.82E-03	1.76E-04	1.31E-02	1.31E-02	2.48E-01	7.97E-03	2.07E-01	6.82E-03	1.76E-04	1.23E-04	1.31E-02	2.35E-01
1.48E-02	3.75E-01	6.53E-03	1.69E-04	1.35E-02	1.35E-02	4.23E-01	1.48E-02	3.75E-01	6.53E-03	1.69E-04	1.19E-04	1.35E-02	4.10E-01
1.19E-02	3.08E-01	6.55E-03	1.69E-04	1.32E-02	1.32E-02	3.53E-01	1.19E-02	3.08E-01	6.55E-03	1.69E-04	1.19E-04	1.32E-02	3.40E-01
3.83E-04	4.63E-03	6.88E-03	2.54E-04	1.65E-03	1.65E-03	1.54E-02	3.83E-04	4.63E-03	6.88E-03	2.54E-04	2.69E-04	1.65E-03	1.41E-02
7.65E-04	5.77E-03	1.36E-02	7.12E-04	1.82E-03	1.82E-03	2.45E-02	7.65E-04	5.77E-03	1.36E-02	7.12E-04	3.79E-04	1.82E-03	2.30E-02
3.20E-05	3.71E-04	2.25E-04	6.83E-06	1.22E-04	1.22E-04	8.79E-04	3.20E-05	3.71E-04	2.25E-04	6.83E-06	5.74E-06	1.22E-04	7.63E-04
7.03E-05	9.52E-04	6.85E-04	2.12E-05	3.59E-04	3.59E-04	2.45E-03	7.03E-05	9.52E-04	6.85E-04	2.12E-05	1.82E-05	3.59E-04	2.11E-03
3.08E-03	5.87E-03	2.51E-03	6.54E-05	2.39E-03	2.39E-03	1.63E-02	3.08E-03	5.87E-03	2.51E-03	6.54E-05	5.92E-05	2.39E-03	1.40E-02
5.79E-05	2.11E-04	7.01E-05	2.24E-06	4.10E-05	4.10E-05	4.23E-04	5.79E-05	2.11E-04	7.01E-05	2.24E-06	2.20E-06	4.10E-05	3.84E-04
1.07E-03	3.28E-03	1.78E-03	4.57E-05	1.51E-03	1.51E-03	9.20E-03	1.07E-03	3.28E-03	1.78E-03	4.57E-05	4.07E-05	1.51E-03	7.73E-03

1.18E-03	2.49E-02	4.56E-03	1.22E-04	5.25E-03	5.25E-03	4.13E-02	1.18E-03	2.49E-02	4.56E-03	1.22E-04	1.04E-04	5.25E-03	3.62E-02
1.15E-03	2.43E-02	4.55E-03	1.21E-04	5.19E-03	5.19E-03	4.05E-02	1.15E-03	2.43E-02	4.55E-03	1.21E-04	1.04E-04	5.19E-03	3.54E-02
1.13E-03	2.37E-02	4.53E-03	1.21E-04	5.14E-03	5.14E-03	3.97E-02	1.13E-03	2.37E-02	4.53E-03	1.21E-04	1.04E-04	5.14E-03	3.47E-02
1.11E-03	2.31E-02	4.52E-03	1.21E-04	5.08E-03	5.08E-03	3.90E-02	1.11E-03	2.31E-02	4.52E-03	1.21E-04	1.04E-04	5.08E-03	3.40E-02
1.10E-03	2.25E-02	4.50E-03	1.21E-04	5.03E-03	5.03E-03	3.83E-02	1.10E-03	2.25E-02	4.50E-03	1.21E-04	1.04E-04	5.03E-03	3.34E-02
1.08E-03	2.20E-02	4.49E-03	1.20E-04	4.99E-03	4.99E-03	3.77E-02	1.08E-03	2.20E-02	4.49E-03	1.20E-04	1.04E-04	4.99E-03	3.28E-02
1.05E-03	2.14E-02	4.48E-03	1.20E-04	4.92E-03	4.92E-03	3.69E-02	1.05E-03	2.14E-02	4.48E-03	1.20E-04	1.04E-04	4.92E-03	3.20E-02
1.03E-03	2.08E-02	4.46E-03	1.20E-04	4.86E-03	4.86E-03	3.61E-02	1.03E-03	2.08E-02	4.46E-03	1.20E-04	1.04E-04	4.86E-03	3.14E-02
1.21E-03	2.46E-02	4.47E-03	1.19E-04	5.18E-03	5.18E-03	4.08E-02	1.21E-03	2.46E-02	4.47E-03	1.19E-04	1.02E-04	5.18E-03	3.57E-02
1.19E-03	2.40E-02	4.46E-03	1.19E-04	5.13E-03	5.13E-03	4.00E-02	1.19E-03	2.40E-02	4.46E-03	1.19E-04	1.02E-04	5.13E-03	3.50E-02
1.18E-03	2.34E-02	4.44E-03	1.18E-04	5.08E-03	5.08E-03	3.93E-02	1.18E-03	2.34E-02	4.44E-03	1.18E-04	1.02E-04	5.08E-03	3.43E-02
1.16E-03	2.28E-02	4.43E-03	1.18E-04	5.03E-03	5.03E-03	3.86E-02	1.16E-03	2.28E-02	4.43E-03	1.18E-04	1.02E-04	5.03E-03	3.37E-02
1.13E-03	2.22E-02	4.42E-03	1.18E-04	4.98E-03	4.98E-03	3.79E-02	1.13E-03	2.22E-02	4.42E-03	1.18E-04	1.02E-04	4.98E-03	3.30E-02
1.11E-03	2.17E-02	4.41E-03	1.18E-04	4.92E-03	4.92E-03	3.72E-02	1.11E-03	2.17E-02	4.41E-03	1.18E-04	1.02E-04	4.92E-03	3.23E-02
1.08E-03	2.11E-02	4.39E-03	1.18E-04	4.86E-03	4.86E-03	3.64E-02	1.08E-03	2.11E-02	4.39E-03	1.18E-04	1.02E-04	4.86E-03	3.17E-02
1.07E-03	2.06E-02	4.38E-03	1.18E-04	4.82E-03	4.82E-03	3.58E-02	1.07E-03	2.06E-02	4.38E-03	1.18E-04	1.02E-04	4.82E-03	3.11E-02
1.26E-03	2.42E-02	4.38E-03	1.16E-04	5.11E-03	5.11E-03	4.01E-02	1.26E-03	2.42E-02	4.38E-03	1.16E-04	9.95E-05	5.11E-03	3.51E-02
1.24E-03	2.36E-02	4.37E-03	1.16E-04	5.06E-03	5.06E-03	3.94E-02	1.24E-03	2.36E-02	4.37E-03	1.16E-04	9.95E-05	5.06E-03	3.44E-02
1.21E-03	2.29E-02	4.36E-03	1.16E-04	5.00E-03	5.00E-03	3.86E-02	1.21E-03	2.29E-02	4.36E-03	1.16E-04	9.98E-05	5.00E-03	3.37E-02
1.19E-03	2.24E-02	4.34E-03	1.15E-04	4.96E-03	4.96E-03	3.80E-02	1.19E-03	2.24E-02	4.34E-03	1.15E-04	9.97E-05	4.96E-03	3.31E-02
1.17E-03	2.19E-02	4.33E-03	1.15E-04	4.91E-03	4.91E-03	3.73E-02	1.17E-03	2.19E-02	4.33E-03	1.15E-04	9.96E-05	4.91E-03	3.25E-02
1.14E-03	2.13E-02	4.32E-03	1.15E-04	4.86E-03	4.86E-03	3.66E-02	1.14E-03	2.13E-02	4.32E-03	1.15E-04	9.98E-05	4.86E-03	3.18E-02
1.12E-03	2.08E-02	4.31E-03	1.15E-04	4.80E-03	4.80E-03	3.59E-02	1.12E-03	2.08E-02	4.31E-03	1.15E-04	1.00E-04	4.80E-03	3.12E-02
1.10E-03	2.03E-02	4.30E-03	1.15E-04	4.76E-03	4.76E-03	3.53E-02	1.10E-03	2.03E-02	4.30E-03	1.15E-04	9.98E-05	4.76E-03	3.07E-02
1.30E-03	2.36E-02	4.30E-03	1.13E-04	5.02E-03	5.02E-03	3.94E-02	1.30E-03	2.36E-02	4.30E-03	1.13E-04	9.71E-05	5.02E-03	3.44E-02
1.29E-03	2.31E-02	4.28E-03	1.13E-04	4.98E-03	4.98E-03	3.87E-02	1.29E-03	2.31E-02	4.28E-03	1.13E-04	9.70E-05	4.98E-03	3.38E-02
1.27E-03	2.25E-02	4.26E-03	1.13E-04	4.93E-03	4.93E-03	3.80E-02	1.27E-03	2.25E-02	4.26E-03	1.13E-04	9.71E-05	4.93E-03	3.32E-02
1.24E-03	2.19E-02	4.26E-03	1.13E-04	4.89E-03	4.89E-03	3.73E-02	1.24E-03	2.19E-02	4.26E-03	1.13E-04	9.73E-05	4.89E-03	3.25E-02
1.21E-03	2.14E-02	4.25E-03	1.13E-04	4.84E-03	4.84E-03	3.66E-02	1.21E-03	2.14E-02	4.25E-03	1.13E-04	9.75E-05	4.84E-03	3.19E-02
1.18E-03	2.08E-02	4.24E-03	1.13E-04	4.78E-03	4.78E-03	3.59E-02	1.18E-03	2.08E-02	4.24E-03	1.13E-04	9.78E-05	4.78E-03	3.12E-02
1.16E-03	2.03E-02	4.23E-03	1.13E-04	4.74E-03	4.74E-03	3.53E-02	1.16E-03	2.03E-02	4.23E-03	1.13E-04	9.78E-05	4.74E-03	3.07E-02
1.14E-03	1.99E-02	4.22E-03	1.12E-04	4.70E-03	4.70E-03	3.48E-02	1.14E-03	1.99E-02	4.22E-03	1.12E-04	9.77E-05	4.70E-03	3.02E-02
1.35E-03	2.29E-02	4.21E-03	1.11E-04	4.94E-03	4.94E-03	3.85E-02	1.35E-03	2.29E-02	4.21E-03	1.11E-04	9.46E-05	4.94E-03	3.36E-02
1.33E-03	2.24E-02	4.19E-03	1.10E-04	4.90E-03	4.90E-03	3.78E-02	1.33E-03	2.24E-02	4.19E-03	1.10E-04	9.46E-05	4.90E-03	3.30E-02
1.31E-03	2.19E-02	4.18E-03	1.10E-04	4.85E-03	4.85E-03	3.72E-02	1.31E-03	2.19E-02	4.18E-03	1.10E-04	9.48E-05	4.85E-03	3.24E-02
1.28E-03	2.13E-02	4.17E-03	1.10E-04	4.81E-03	4.81E-03	3.65E-02	1.28E-03	2.13E-02	4.17E-03	1.10E-04	9.50E-05	4.81E-03	3.18E-02
1.25E-03	2.08E-02	4.16E-03	1.10E-04	4.76E-03	4.76E-03	3.59E-02	1.25E-03	2.08E-02	4.16E-03	1.10E-04	9.52E-05	4.76E-03	3.12E-02
1.22E-03	2.03E-02	4.16E-03	1.10E-04	4.71E-03	4.71E-03	3.53E-02	1.22E-03	2.03E-02	4.16E-03	1.10E-04	9.55E-05	4.71E-03	3.06E-02
1.21E-03	1.99E-02	4.15E-03	1.10E-04	4.67E-03	4.67E-03	3.47E-02	1.21E-03	1.99E-02	4.15E-03	1.10E-04	9.55E-05	4.67E-03	3.01E-02
1.19E-03	1.95E-02	4.14E-03	1.10E-04	4.63E-03	4.63E-03	3.41E-02	1.19E-03	1.95E-02	4.14E-03	1.10E-04	9.56E-05	4.63E-03	2.96E-02
1.43E-03	2.27E-02	4.13E-03	1.08E-04	4.90E-03	4.90E-03	3.82E-02	1.43E-03	2.27E-02	4.13E-03	1.08E-04	9.18E-05	4.90E-03	3.34E-02
1.41E-03	2.22E-02	4.12E-03	1.08E-04	4.86E-03	4.86E-03	3.75E-02	1.41E-03	2.22E-02	4.12E-03	1.08E-04	9.20E-05	4.86E-03	3.28E-02
1.39E-03	2.17E-02	4.11E-03	1.08E-04	4.82E-03	4.82E-03	3.69E-02	1.39E-03	2.17E-02	4.11E-03	1.08E-04	9.21E-05	4.82E-03	3.22E-02
1.36E-03	2.12E-02	4.10E-03	1.08E-04	4.77E-03	4.77E-03	3.63E-02	1.36E-03	2.12E-02	4.10E-03	1.08E-04	9.24E-05	4.77E-03	3.16E-02
1.33E-03	2.07E-02	4.09E-03	1.08E-04	4.73E-03	4.73E-03	3.57E-02	1.33E-03	2.07E-02	4.09E-03	1.08E-04	9.27E-05	4.73E-03	3.10E-02
1.31E-03	2.02E-02	4.08E-03	1.07E-04	4.69E-03	4.69E-03	3.51E-02	1.31E-03	2.02E-02	4.08E-03	1.07E-04	9.28E-05	4.69E-03	3.05E-02
1.28E-03	1.98E-02	4.07E-03	1.08E-04	4.64E-03	4.64E-03	3.45E-02	1.28E-03	1.98E-02	4.07E-03	1.08E-04	9.31E-05	4.64E-03	3.00E-02
1.25E-03	1.93E-02	4.07E-03	1.08E-04	4.60E-03	4.60E-03	3.40E-02	1.25E-03	1.93E-02	4.07E-03	1.08E-04	9.33E-05	4.60E-03	2.95E-02
1.23E-03	1.89E-02	4.05E-03	1.07E-04	4.56E-03	4.56E-03	3.35E-02	1.23E-03	1.89E-02	4.05E-03	1.07E-04	9.34E-05	4.56E-03	2.90E-02
1.49E-03	2.19E-02	4.05E-03	1.05E-04	4.82E-03	4.82E-03	3.72E-02	1.49E-03	2.19E-02	4.05E-03	1.05E-04	8.93E-05	4.82E-03	3.24E-02
1.45E-03	2.08E-02	4.02E-03	1.05E-04	4.73E-03	4.73E-03	3.59E-02	1.45E-03	2.08E-02	4.02E-03	1.05E-04	8.95E-05	4.73E-03	3.12E-02
1.41E-03	2.04E-02	4.01E-03	1.05E-04	4.69E-03	4.69E-03	3.53E-02	1.41E-03	2.04E-02	4.01E-03	1.05E-04	9.00E-05	4.69E-03	3.07E-02
1.38E-03	2.00E-02	4.01E-03	1.05E-04	4.65E-03	4.65E-03	3.47E-02	1.38E-03	2.00E-02	4.01E-03	1.05E-04	9.02E-05	4.65E-03	3.02E-02
1.35E-03	1.96E-02	4.00E-03	1.05E-04	4.61E-03	4.61E-03	3.42E-02	1.35E-03	1.96E-02	4.00E-03	1.05E-04	9.06E-05	4.61E-03	2.97E-02

1.33E-03	1.91E-02	4.00E-03	1.05E-04	4.57E-03	4.57E-03	3.37E-02	1.33E-03	1.91E-02	4.00E-03	1.05E-04	9.08E-05	4.57E-03	2.92E-02
1.30E-03	1.88E-02	3.99E-03	1.05E-04	4.52E-03	4.52E-03	3.32E-02	1.30E-03	1.88E-02	3.99E-03	1.05E-04	9.11E-05	4.52E-03	2.88E-02
1.28E-03	1.84E-02	3.97E-03	1.05E-04	4.49E-03	4.49E-03	3.27E-02	1.28E-03	1.84E-02	3.97E-03	1.05E-04	9.11E-05	4.49E-03	2.83E-02
1.55E-03	2.10E-02	3.96E-03	1.03E-04	4.73E-03	4.73E-03	3.60E-02	1.55E-03	2.10E-02	3.96E-03	1.03E-04	8.67E-05	4.73E-03	3.14E-02
1.51E-03	2.00E-02	3.93E-03	1.02E-04	4.64E-03	4.64E-03	3.48E-02	1.51E-03	2.00E-02	3.93E-03	1.02E-04	8.70E-05	4.64E-03	3.02E-02
1.47E-03	1.96E-02	3.93E-03	1.02E-04	4.60E-03	4.60E-03	3.43E-02	1.47E-03	1.96E-02	3.93E-03	1.02E-04	8.74E-05	4.60E-03	2.98E-02
1.44E-03	1.92E-02	3.93E-03	1.03E-04	4.56E-03	4.56E-03	3.38E-02	1.44E-03	1.92E-02	3.93E-03	1.03E-04	8.78E-05	4.56E-03	2.93E-02
1.41E-03	1.88E-02	3.92E-03	1.03E-04	4.52E-03	4.52E-03	3.33E-02	1.41E-03	1.88E-02	3.92E-03	1.03E-04	8.83E-05	4.52E-03	2.89E-02
1.38E-03	1.85E-02	3.92E-03	1.03E-04	4.49E-03	4.49E-03	3.28E-02	1.38E-03	1.85E-02	3.92E-03	1.03E-04	8.85E-05	4.49E-03	2.84E-02
1.36E-03	1.81E-02	3.91E-03	1.03E-04	4.45E-03	4.45E-03	3.24E-02	1.36E-03	1.81E-02	3.91E-03	1.03E-04	8.88E-05	4.45E-03	2.80E-02
1.33E-03	1.78E-02	3.90E-03	1.03E-04	4.41E-03	4.41E-03	3.19E-02	1.33E-03	1.78E-02	3.90E-03	1.03E-04	8.91E-05	4.41E-03	2.76E-02
3.69E-04	4.59E-03	4.44E-03	1.38E-04	2.71E-03	2.71E-03	1.50E-02	3.69E-04	4.59E-03	4.44E-03	1.38E-04	1.24E-04	2.71E-03	1.24E-02
3.66E-04	4.54E-03	4.36E-03	1.35E-04	2.67E-03	2.67E-03	1.47E-02	3.66E-04	4.54E-03	4.36E-03	1.35E-04	1.22E-04	2.67E-03	1.22E-02
3.63E-04	4.50E-03	4.31E-03	1.34E-04	2.64E-03	2.64E-03	1.46E-02	3.63E-04	4.50E-03	4.31E-03	1.34E-04	1.20E-04	2.64E-03	1.21E-02
3.61E-04	4.49E-03	4.28E-03	1.33E-04	2.62E-03	2.62E-03	1.45E-02	3.61E-04	4.49E-03	4.28E-03	1.33E-04	1.20E-04	2.62E-03	1.20E-02
3.58E-04	4.46E-03	4.22E-03	1.31E-04	2.59E-03	2.59E-03	1.43E-02	3.58E-04	4.46E-03	4.22E-03	1.31E-04	1.18E-04	2.59E-03	1.19E-02
3.57E-04	4.44E-03	4.20E-03	1.30E-04	2.57E-03	2.57E-03	1.43E-02	3.57E-04	4.44E-03	4.20E-03	1.30E-04	1.18E-04	2.57E-03	1.18E-02
3.54E-04	4.40E-03	4.14E-03	1.28E-04	2.54E-03	2.54E-03	1.41E-02	3.54E-04	4.40E-03	4.14E-03	1.28E-04	1.16E-04	2.54E-03	1.17E-02
3.52E-04	4.37E-03	4.09E-03	1.27E-04	2.51E-03	2.51E-03	1.40E-02	3.52E-04	4.37E-03	4.09E-03	1.27E-04	1.15E-04	2.51E-03	1.16E-02
3.48E-04	4.32E-03	4.01E-03	1.24E-04	2.47E-03	2.47E-03	1.37E-02	3.48E-04	4.32E-03	4.01E-03	1.24E-04	1.13E-04	2.47E-03	1.14E-02
3.47E-04	4.29E-03	3.97E-03	1.23E-04	2.44E-03	2.44E-03	1.36E-02	3.47E-04	4.29E-03	3.97E-03	1.23E-04	1.12E-04	2.44E-03	1.13E-02
3.44E-04	4.25E-03	3.92E-03	1.21E-04	2.41E-03	2.41E-03	1.35E-02	3.44E-04	4.25E-03	3.92E-03	1.21E-04	1.10E-04	2.41E-03	1.12E-02
3.42E-04	4.22E-03	3.87E-03	1.20E-04	2.38E-03	2.38E-03	1.33E-02	3.42E-04	4.22E-03	3.87E-03	1.20E-04	1.09E-04	2.38E-03	1.10E-02
3.40E-04	4.18E-03	3.82E-03	1.18E-04	2.36E-03	2.36E-03	1.32E-02	3.40E-04	4.18E-03	3.82E-03	1.18E-04	1.08E-04	2.36E-03	1.09E-02
3.37E-04	4.14E-03	3.77E-03	1.17E-04	2.33E-03	2.33E-03	1.30E-02	3.37E-04	4.14E-03	3.77E-03	1.17E-04	1.07E-04	2.33E-03	1.08E-02
3.34E-04	4.09E-03	3.71E-03	1.15E-04	2.29E-03	2.29E-03	1.28E-02	3.34E-04	4.09E-03	3.71E-03	1.15E-04	1.05E-04	2.29E-03	1.06E-02
3.32E-04	4.05E-03	3.66E-03	1.13E-04	2.26E-03	2.26E-03	1.27E-02	3.32E-04	4.05E-03	3.66E-03	1.13E-04	1.03E-04	2.26E-03	1.05E-02
3.28E-04	3.97E-03	3.56E-03	1.10E-04	2.22E-03	2.22E-03	1.24E-02	3.28E-04	3.97E-03	3.56E-03	1.10E-04	1.01E-04	2.22E-03	1.03E-02
3.27E-04	3.95E-03	3.54E-03	1.10E-04	2.20E-03	2.20E-03	1.23E-02	3.27E-04	3.95E-03	3.54E-03	1.10E-04	1.01E-04	2.20E-03	1.02E-02
3.23E-04	3.88E-03	3.46E-03	1.07E-04	2.16E-03	2.16E-03	1.21E-02	3.23E-04	3.88E-03	3.46E-03	1.07E-04	9.82E-05	2.16E-03	1.00E-02
3.21E-04	3.84E-03	3.42E-03	1.06E-04	2.14E-03	2.14E-03	1.20E-02	3.21E-04	3.84E-03	3.42E-03	1.06E-04	9.71E-05	2.14E-03	9.93E-03
3.19E-04	3.80E-03	3.38E-03	1.04E-04	2.11E-03	2.11E-03	1.18E-02	3.19E-04	3.80E-03	3.38E-03	1.04E-04	9.59E-05	2.11E-03	9.81E-03
3.18E-04	3.78E-03	3.34E-03	1.03E-04	2.09E-03	2.09E-03	1.17E-02	3.18E-04	3.78E-03	3.34E-03	1.03E-04	9.51E-05	2.09E-03	9.73E-03
3.16E-04	3.76E-03	3.32E-03	1.03E-04	2.08E-03	2.08E-03	1.17E-02	3.16E-04	3.76E-03	3.32E-03	1.03E-04	9.47E-05	2.08E-03	9.68E-03
3.16E-04	3.75E-03	3.31E-03	1.02E-04	2.07E-03	2.07E-03	1.16E-02	3.16E-04	3.75E-03	3.31E-03	1.02E-04	9.45E-05	2.07E-03	9.64E-03
3.14E-04	3.73E-03	3.29E-03	1.02E-04	2.06E-03	2.06E-03	1.16E-02	3.14E-04	3.73E-03	3.29E-03	1.02E-04	9.41E-05	2.06E-03	9.60E-03
3.12E-04	3.69E-03	3.25E-03	1.00E-04	2.04E-03	2.04E-03	1.14E-02	3.12E-04	3.69E-03	3.25E-03	1.00E-04	9.34E-05	2.04E-03	9.48E-03
3.11E-04	3.67E-03	3.23E-03	9.99E-05	2.03E-03	2.03E-03	1.14E-02	3.11E-04	3.67E-03	3.23E-03	9.99E-05	9.31E-05	2.03E-03	9.43E-03
3.12E-04	3.70E-03	3.25E-03	1.01E-04	2.03E-03	2.03E-03	1.14E-02	3.12E-04	3.70E-03	3.25E-03	1.01E-04	9.34E-05	2.03E-03	9.48E-03
3.78E-04	4.84E-03	4.53E-03	1.40E-04	2.79E-03	2.79E-03	1.55E-02	3.78E-04	4.84E-03	4.53E-03	1.40E-04	1.26E-04	2.79E-03	1.28E-02
3.75E-04	4.80E-03	4.47E-03	1.38E-04	2.75E-03	2.75E-03	1.53E-02	3.75E-04	4.80E-03	4.47E-03	1.38E-04	1.24E-04	2.75E-03	1.27E-02
3.72E-04	4.76E-03	4.41E-03	1.37E-04	2.72E-03	2.72E-03	1.51E-02	3.72E-04	4.76E-03	4.41E-03	1.37E-04	1.23E-04	2.72E-03	1.25E-02
3.69E-04	4.73E-03	4.36E-03	1.35E-04	2.69E-03	2.69E-03	1.50E-02	3.69E-04	4.73E-03	4.36E-03	1.35E-04	1.22E-04	2.69E-03	1.24E-02
3.68E-04	4.71E-03	4.33E-03	1.34E-04	2.67E-03	2.67E-03	1.49E-02	3.68E-04	4.71E-03	4.33E-03	1.34E-04	1.21E-04	2.67E-03	1.23E-02
3.64E-04	4.67E-03	4.27E-03	1.32E-04	2.64E-03	2.64E-03	1.47E-02	3.64E-04	4.67E-03	4.27E-03	1.32E-04	1.19E-04	2.64E-03	1.22E-02
3.62E-04	4.64E-03	4.22E-03	1.31E-04	2.61E-03	2.61E-03	1.46E-02	3.62E-04	4.64E-03	4.22E-03	1.31E-04	1.18E-04	2.61E-03	1.21E-02
3.60E-04	4.61E-03	4.17E-03	1.29E-04	2.58E-03	2.58E-03	1.44E-02	3.60E-04	4.61E-03	4.17E-03	1.29E-04	1.17E-04	2.58E-03	1.20E-02
3.57E-04	4.56E-03	4.11E-03	1.27E-04	2.54E-03	2.54E-03	1.42E-02	3.57E-04	4.56E-03	4.11E-03	1.27E-04	1.15E-04	2.54E-03	1.18E-02
3.54E-04	4.51E-03	4.05E-03	1.25E-04	2.51E-03	2.51E-03	1.40E-02	3.54E-04	4.51E-03	4.05E-03	1.25E-04	1.14E-04	2.51E-03	1.17E-02
3.52E-04	4.47E-03	4.00E-03	1.24E-04	2.48E-03	2.48E-03	1.39E-02	3.52E-04	4.47E-03	4.00E-03	1.24E-04	1.12E-04	2.48E-03	1.15E-02
3.48E-04	4.42E-03	3.94E-03	1.22E-04	2.44E-03	2.44E-03	1.37E-02	3.48E-04	4.42E-03	3.94E-03	1.22E-04	1.11E-04	2.44E-03	1.14E-02
3.45E-04	4.36E-03	3.87E-03	1.20E-04	2.40E-03	2.40E-03	1.35E-02	3.45E-04	4.36E-03	3.87E-03	1.20E-04	1.09E-04	2.40E-03	1.12E-02
3.43E-04	4.32E-03	3.81E-03	1.18E-04	2.37E-03	2.37E-03	1.33E-02	3.43E-04	4.32E-03	3.81E-03	1.18E-04	1.07E-04	2.37E-03	1.11E-02
3.40E-04	4.26E-03	3.74E-03	1.16E-04	2.33E-03	2.33E-03	1.31E-02	3.40E-04	4.26E-03	3.74E-03	1.16E-04	1.05E-04	2.33E-03	1.09E-02

3.38E-04	4.23E-03	3.71E-03	1.15E-04	2.31E-03	2.31E-03	1.30E-02	3.38E-04	4.23E-03	3.71E-03	1.15E-04	1.05E-04	2.31E-03	1.08E-02
3.35E-04	4.17E-03	3.64E-03	1.13E-04	2.28E-03	2.28E-03	1.28E-02	3.35E-04	4.17E-03	3.64E-03	1.13E-04	1.03E-04	2.28E-03	1.06E-02
3.32E-04	4.11E-03	3.57E-03	1.10E-04	2.24E-03	2.24E-03	1.26E-02	3.32E-04	4.11E-03	3.57E-03	1.10E-04	1.01E-04	2.24E-03	1.05E-02
3.29E-04	4.05E-03	3.50E-03	1.08E-04	2.20E-03	2.20E-03	1.24E-02	3.29E-04	4.05E-03	3.50E-03	1.08E-04	9.90E-05	2.20E-03	1.03E-02
3.26E-04	4.01E-03	3.46E-03	1.07E-04	2.17E-03	2.17E-03	1.22E-02	3.26E-04	4.01E-03	3.46E-03	1.07E-04	9.79E-05	2.17E-03	1.02E-02
3.24E-04	3.97E-03	3.42E-03	1.06E-04	2.15E-03	2.15E-03	1.21E-02	3.24E-04	3.97E-03	3.42E-03	1.06E-04	9.70E-05	2.15E-03	1.01E-02
3.23E-04	3.95E-03	3.39E-03	1.05E-04	2.13E-03	2.13E-03	1.20E-02	3.23E-04	3.95E-03	3.39E-03	1.05E-04	9.62E-05	2.13E-03	1.00E-02
3.22E-04	3.93E-03	3.38E-03	1.04E-04	2.12E-03	2.12E-03	1.20E-02	3.22E-04	3.93E-03	3.38E-03	1.04E-04	9.59E-05	2.12E-03	9.95E-03
3.21E-04	3.92E-03	3.37E-03	1.04E-04	2.11E-03	2.11E-03	1.19E-02	3.21E-04	3.92E-03	3.37E-03	1.04E-04	9.58E-05	2.11E-03	9.92E-03
3.20E-04	3.89E-03	3.33E-03	1.03E-04	2.09E-03	2.09E-03	1.18E-02	3.20E-04	3.89E-03	3.33E-03	1.03E-04	9.49E-05	2.09E-03	9.83E-03
3.19E-04	3.89E-03	3.33E-03	1.03E-04	2.09E-03	2.09E-03	1.18E-02	3.19E-04	3.89E-03	3.33E-03	1.03E-04	9.52E-05	2.09E-03	9.83E-03
3.17E-04	3.85E-03	3.29E-03	1.02E-04	2.07E-03	2.07E-03	1.17E-02	3.17E-04	3.85E-03	3.29E-03	1.02E-04	9.40E-05	2.07E-03	9.72E-03
3.16E-04	3.84E-03	3.28E-03	1.02E-04	2.06E-03	2.06E-03	1.17E-02	3.16E-04	3.84E-03	3.28E-03	1.02E-04	9.40E-05	2.06E-03	9.70E-03
3.85E-04	5.04E-03	4.54E-03	1.41E-04	2.83E-03	2.83E-03	1.58E-02	3.85E-04	5.04E-03	4.54E-03	1.41E-04	1.25E-04	2.83E-03	1.31E-02
3.82E-04	5.01E-03	4.50E-03	1.39E-04	2.81E-03	2.81E-03	1.56E-02	3.82E-04	5.01E-03	4.50E-03	1.39E-04	1.24E-04	2.81E-03	1.30E-02
3.79E-04	4.97E-03	4.45E-03	1.38E-04	2.78E-03	2.78E-03	1.55E-02	3.79E-04	4.97E-03	4.45E-03	1.38E-04	1.23E-04	2.78E-03	1.28E-02
3.77E-04	4.96E-03	4.42E-03	1.37E-04	2.75E-03	2.75E-03	1.54E-02	3.77E-04	4.96E-03	4.42E-03	1.37E-04	1.23E-04	2.75E-03	1.28E-02
3.74E-04	4.90E-03	4.35E-03	1.35E-04	2.71E-03	2.71E-03	1.52E-02	3.74E-04	4.90E-03	4.35E-03	1.35E-04	1.21E-04	2.71E-03	1.26E-02
3.73E-04	4.92E-03	4.35E-03	1.35E-04	2.71E-03	2.71E-03	1.52E-02	3.73E-04	4.92E-03	4.35E-03	1.35E-04	1.21E-04	2.71E-03	1.26E-02
3.70E-04	4.87E-03	4.29E-03	1.33E-04	2.67E-03	2.67E-03	1.50E-02	3.70E-04	4.87E-03	4.29E-03	1.33E-04	1.20E-04	2.67E-03	1.25E-02
3.68E-04	4.85E-03	4.26E-03	1.32E-04	2.65E-03	2.65E-03	1.49E-02	3.68E-04	4.85E-03	4.26E-03	1.32E-04	1.19E-04	2.65E-03	1.24E-02
3.64E-04	4.79E-03	4.19E-03	1.30E-04	2.61E-03	2.61E-03	1.47E-02	3.64E-04	4.79E-03	4.19E-03	1.30E-04	1.17E-04	2.61E-03	1.22E-02
3.61E-04	4.73E-03	4.12E-03	1.28E-04	2.57E-03	2.57E-03	1.45E-02	3.61E-04	4.73E-03	4.12E-03	1.28E-04	1.15E-04	2.57E-03	1.20E-02
3.58E-04	4.68E-03	4.05E-03	1.26E-04	2.53E-03	2.53E-03	1.43E-02	3.58E-04	4.68E-03	4.05E-03	1.26E-04	1.13E-04	2.53E-03	1.19E-02
3.56E-04	4.64E-03	4.00E-03	1.24E-04	2.50E-03	2.50E-03	1.41E-02	3.56E-04	4.64E-03	4.00E-03	1.24E-04	1.12E-04	2.50E-03	1.17E-02
3.52E-04	4.56E-03	3.91E-03	1.21E-04	2.45E-03	2.45E-03	1.38E-02	3.52E-04	4.56E-03	3.91E-03	1.21E-04	1.10E-04	2.45E-03	1.15E-02
3.49E-04	4.52E-03	3.86E-03	1.20E-04	2.42E-03	2.42E-03	1.37E-02	3.49E-04	4.52E-03	3.86E-03	1.20E-04	1.09E-04	2.42E-03	1.14E-02
3.46E-04	4.45E-03	3.79E-03	1.17E-04	2.38E-03	2.38E-03	1.35E-02	3.46E-04	4.45E-03	3.79E-03	1.17E-04	1.06E-04	2.38E-03	1.12E-02
3.44E-04	4.42E-03	3.75E-03	1.16E-04	2.36E-03	2.36E-03	1.33E-02	3.44E-04	4.42E-03	3.75E-03	1.16E-04	1.06E-04	2.36E-03	1.11E-02
3.40E-04	4.33E-03	3.66E-03	1.13E-04	2.31E-03	2.31E-03	1.31E-02	3.40E-04	4.33E-03	3.66E-03	1.13E-04	1.03E-04	2.31E-03	1.09E-02
3.37E-04	4.27E-03	3.60E-03	1.11E-04	2.27E-03	2.27E-03	1.29E-02	3.37E-04	4.27E-03	3.60E-03	1.11E-04	1.01E-04	2.27E-03	1.07E-02
3.34E-04	4.22E-03	3.54E-03	1.09E-04	2.24E-03	2.24E-03	1.27E-02	3.34E-04	4.22E-03	3.54E-03	1.09E-04	9.97E-05	2.24E-03	1.05E-02
3.32E-04	4.17E-03	3.50E-03	1.08E-04	2.21E-03	2.21E-03	1.25E-02	3.32E-04	4.17E-03	3.50E-03	1.08E-04	9.87E-05	2.21E-03	1.04E-02
3.30E-04	4.15E-03	3.47E-03	1.07E-04	2.20E-03	2.20E-03	1.25E-02	3.30E-04	4.15E-03	3.47E-03	1.07E-04	9.81E-05	2.20E-03	1.04E-02
3.29E-04	4.13E-03	3.45E-03	1.07E-04	2.18E-03	2.18E-03	1.24E-02	3.29E-04	4.13E-03	3.45E-03	1.07E-04	9.76E-05	2.18E-03	1.03E-02
3.28E-04	4.11E-03	3.43E-03	1.06E-04	2.17E-03	2.17E-03	1.23E-02	3.28E-04	4.11E-03	3.43E-03	1.06E-04	9.73E-05	2.17E-03	1.02E-02
3.27E-04	4.10E-03	3.42E-03	1.06E-04	2.16E-03	2.16E-03	1.23E-02	3.27E-04	4.10E-03	3.42E-03	1.06E-04	9.70E-05	2.16E-03	1.02E-02
3.25E-04	4.07E-03	3.39E-03	1.05E-04	2.14E-03	2.14E-03	1.22E-02	3.25E-04	4.07E-03	3.39E-03	1.05E-04	9.65E-05	2.14E-03	1.01E-02
3.25E-04	4.07E-03	3.39E-03	1.05E-04	2.14E-03	2.14E-03	1.22E-02	3.25E-04	4.07E-03	3.39E-03	1.05E-04	9.67E-05	2.14E-03	1.01E-02
3.23E-04	4.02E-03	3.35E-03	1.04E-04	2.12E-03	2.12E-03	1.20E-02	3.23E-04	4.02E-03	3.35E-03	1.04E-04	9.61E-05	2.12E-03	1.00E-02
3.22E-04	4.02E-03	3.35E-03	1.04E-04	2.11E-03	2.11E-03	1.20E-02	3.22E-04	4.02E-03	3.35E-03	1.04E-04	9.58E-05	2.11E-03	1.00E-02
3.87E-04	5.13E-03	4.46E-03	1.38E-04	2.84E-03	2.84E-03	1.58E-02	3.87E-04	5.13E-03	4.46E-03	1.38E-04	1.23E-04	2.84E-03	1.31E-02
3.87E-04	5.16E-03	4.49E-03	1.39E-04	2.85E-03	2.85E-03	1.59E-02	3.87E-04	5.16E-03	4.49E-03	1.39E-04	1.24E-04	2.85E-03	1.31E-02
3.88E-04	5.22E-03	4.52E-03	1.40E-04	2.85E-03	2.85E-03	1.60E-02	3.88E-04	5.22E-03	4.52E-03	1.40E-04	1.25E-04	2.85E-03	1.32E-02
3.86E-04	5.22E-03	4.50E-03	1.39E-04	2.83E-03	2.83E-03	1.59E-02	3.86E-04	5.22E-03	4.50E-03	1.39E-04	1.25E-04	2.83E-03	1.32E-02
3.84E-04	5.19E-03	4.46E-03	1.38E-04	2.81E-03	2.81E-03	1.58E-02	3.84E-04	5.19E-03	4.46E-03	1.38E-04	1.24E-04	2.81E-03	1.31E-02
3.82E-04	5.17E-03	4.43E-03	1.37E-04	2.79E-03	2.79E-03	1.57E-02	3.82E-04	5.17E-03	4.43E-03	1.37E-04	1.23E-04	2.79E-03	1.30E-02
3.79E-04	5.13E-03	4.38E-03	1.36E-04	2.76E-03	2.76E-03	1.55E-02	3.79E-04	5.13E-03	4.38E-03	1.36E-04	1.22E-04	2.76E-03	1.29E-02
3.77E-04	5.10E-03	4.34E-03	1.35E-04	2.73E-03	2.73E-03	1.54E-02	3.77E-04	5.10E-03	4.34E-03	1.35E-04	1.21E-04	2.73E-03	1.28E-02
3.73E-04	5.04E-03	4.27E-03	1.32E-04	2.68E-03	2.68E-03	1.52E-02	3.73E-04	5.04E-03	4.27E-03	1.32E-04	1.19E-04	2.68E-03	1.26E-02
3.69E-04	4.97E-03	4.19E-03	1.30E-04	2.64E-03	2.64E-03	1.49E-02	3.69E-04	4.97E-03	4.19E-03	1.30E-04	1.17E-04	2.64E-03	1.24E-02
3.66E-04	4.92E-03	4.14E-03	1.28E-04	2.61E-03	2.61E-03	1.48E-02	3.66E-04	4.92E-03	4.14E-03	1.28E-04	1.16E-04	2.61E-03	1.23E-02
3.63E-04	4.86E-03	4.07E-03	1.26E-04	2.56E-03	2.56E-03	1.45E-02	3.63E-04	4.86E-03	4.07E-03	1.26E-04	1.14E-04	2.56E-03	1.21E-02
3.59E-04	4.78E-03	3.99E-03	1.24E-04	2.52E-03	2.52E-03	1.43E-02	3.59E-04	4.78E-03	3.99E-03	1.24E-04	1.12E-04	2.52E-03	1.19E-02

3.56E-04	4.72E-03	3.92E-03	1.22E-04	2.48E-03	2.48E-03	1.41E-02	3.56E-04	4.72E-03	3.92E-03	1.22E-04	1.10E-04	2.48E-03	1.17E-02
3.52E-04	4.65E-03	3.84E-03	1.19E-04	2.43E-03	2.43E-03	1.38E-02	3.52E-04	4.65E-03	3.84E-03	1.19E-04	1.08E-04	2.43E-03	1.15E-02
3.50E-04	4.60E-03	3.79E-03	1.17E-04	2.40E-03	2.40E-03	1.37E-02	3.50E-04	4.60E-03	3.79E-03	1.17E-04	1.06E-04	2.40E-03	1.14E-02
3.45E-04	4.51E-03	3.70E-03	1.14E-04	2.35E-03	2.35E-03	1.34E-02	3.45E-04	4.51E-03	3.70E-03	1.14E-04	1.04E-04	2.35E-03	1.11E-02
3.42E-04	4.45E-03	3.64E-03	1.12E-04	2.31E-03	2.31E-03	1.32E-02	3.42E-04	4.45E-03	3.64E-03	1.12E-04	1.02E-04	2.31E-03	1.10E-02
3.40E-04	4.39E-03	3.58E-03	1.11E-04	2.28E-03	2.28E-03	1.30E-02	3.40E-04	4.39E-03	3.58E-03	1.11E-04	1.01E-04	2.28E-03	1.08E-02
3.37E-04	4.36E-03	3.54E-03	1.10E-04	2.26E-03	2.26E-03	1.29E-02	3.37E-04	4.36E-03	3.54E-03	1.10E-04	9.97E-05	2.26E-03	1.07E-02
3.36E-04	4.34E-03	3.52E-03	1.09E-04	2.25E-03	2.25E-03	1.28E-02	3.36E-04	4.34E-03	3.52E-03	1.09E-04	9.93E-05	2.25E-03	1.07E-02
3.35E-04	4.31E-03	3.50E-03	1.08E-04	2.23E-03	2.23E-03	1.27E-02	3.35E-04	4.31E-03	3.50E-03	1.08E-04	9.88E-05	2.23E-03	1.06E-02
3.34E-04	4.30E-03	3.49E-03	1.08E-04	2.22E-03	2.22E-03	1.27E-02	3.34E-04	4.30E-03	3.49E-03	1.08E-04	9.87E-05	2.22E-03	1.05E-02
3.32E-04	4.28E-03	3.47E-03	1.07E-04	2.21E-03	2.21E-03	1.26E-02	3.32E-04	4.28E-03	3.47E-03	1.07E-04	9.83E-05	2.21E-03	1.05E-02
3.32E-04	4.27E-03	3.46E-03	1.07E-04	2.20E-03	2.20E-03	1.26E-02	3.32E-04	4.27E-03	3.46E-03	1.07E-04	9.82E-05	2.20E-03	1.05E-02
3.30E-04	4.24E-03	3.44E-03	1.07E-04	2.18E-03	2.18E-03	1.25E-02	3.30E-04	4.24E-03	3.44E-03	1.07E-04	9.78E-05	2.18E-03	1.04E-02
3.29E-04	4.22E-03	3.42E-03	1.06E-04	2.17E-03	2.17E-03	1.24E-02	3.29E-04	4.22E-03	3.42E-03	1.06E-04	9.72E-05	2.17E-03	1.03E-02
3.28E-04	4.19E-03	3.39E-03	1.05E-04	2.15E-03	2.15E-03	1.23E-02	3.28E-04	4.19E-03	3.39E-03	1.05E-04	9.66E-05	2.15E-03	1.03E-02
3.86E-04	5.15E-03	4.26E-03	1.31E-04	2.75E-03	2.75E-03	1.54E-02	3.86E-04	5.15E-03	4.26E-03	1.31E-04	1.16E-04	2.75E-03	1.28E-02
3.92E-04	5.33E-03	4.45E-03	1.38E-04	2.86E-03	2.86E-03	1.60E-02	3.92E-04	5.33E-03	4.45E-03	1.38E-04	1.23E-04	2.86E-03	1.33E-02
3.97E-04	5.51E-03	4.61E-03	1.43E-04	2.93E-03	2.93E-03	1.65E-02	3.97E-04	5.51E-03	4.61E-03	1.43E-04	1.27E-04	2.93E-03	1.37E-02
3.95E-04	5.50E-03	4.59E-03	1.42E-04	2.92E-03	2.92E-03	1.65E-02	3.95E-04	5.50E-03	4.59E-03	1.42E-04	1.27E-04	2.92E-03	1.37E-02
3.92E-04	5.43E-03	4.53E-03	1.40E-04	2.88E-03	2.88E-03	1.62E-02	3.92E-04	5.43E-03	4.53E-03	1.40E-04	1.25E-04	2.88E-03	1.35E-02
3.91E-04	5.45E-03	4.53E-03	1.40E-04	2.87E-03	2.87E-03	1.63E-02	3.91E-04	5.45E-03	4.53E-03	1.40E-04	1.25E-04	2.87E-03	1.35E-02
3.88E-04	5.40E-03	4.47E-03	1.38E-04	2.83E-03	2.83E-03	1.61E-02	3.88E-04	5.40E-03	4.47E-03	1.38E-04	1.24E-04	2.83E-03	1.34E-02
3.85E-04	5.36E-03	4.42E-03	1.37E-04	2.80E-03	2.80E-03	1.59E-02	3.85E-04	5.36E-03	4.42E-03	1.37E-04	1.23E-04	2.80E-03	1.32E-02
3.82E-04	5.30E-03	4.35E-03	1.35E-04	2.76E-03	2.76E-03	1.57E-02	3.82E-04	5.30E-03	4.35E-03	1.35E-04	1.21E-04	2.76E-03	1.30E-02
3.78E-04	5.23E-03	4.28E-03	1.33E-04	2.72E-03	2.72E-03	1.55E-02	3.78E-04	5.23E-03	4.28E-03	1.33E-04	1.19E-04	2.72E-03	1.29E-02
3.74E-04	5.13E-03	4.18E-03	1.30E-04	2.66E-03	2.66E-03	1.51E-02	3.74E-04	5.13E-03	4.18E-03	1.30E-04	1.16E-04	2.66E-03	1.26E-02
3.70E-04	5.08E-03	4.12E-03	1.28E-04	2.63E-03	2.63E-03	1.50E-02	3.70E-04	5.08E-03	4.12E-03	1.28E-04	1.15E-04	2.63E-03	1.24E-02
3.66E-04	4.99E-03	4.03E-03	1.25E-04	2.57E-03	2.57E-03	1.47E-02	3.66E-04	4.99E-03	4.03E-03	1.25E-04	1.13E-04	2.57E-03	1.22E-02
3.62E-04	4.93E-03	3.97E-03	1.23E-04	2.53E-03	2.53E-03	1.44E-02	3.62E-04	4.93E-03	3.97E-03	1.23E-04	1.11E-04	2.53E-03	1.20E-02
3.59E-04	4.86E-03	3.90E-03	1.21E-04	2.49E-03	2.49E-03	1.42E-02	3.59E-04	4.86E-03	3.90E-03	1.21E-04	1.09E-04	2.49E-03	1.18E-02
3.56E-04	4.79E-03	3.83E-03	1.19E-04	2.45E-03	2.45E-03	1.40E-02	3.56E-04	4.79E-03	3.83E-03	1.19E-04	1.07E-04	2.45E-03	1.16E-02
3.51E-04	4.69E-03	3.73E-03	1.15E-04	2.39E-03	2.39E-03	1.37E-02	3.51E-04	4.69E-03	3.73E-03	1.15E-04	1.04E-04	2.39E-03	1.14E-02
3.48E-04	4.63E-03	3.67E-03	1.14E-04	2.36E-03	2.36E-03	1.35E-02	3.48E-04	4.63E-03	3.67E-03	1.14E-04	1.03E-04	2.36E-03	1.12E-02
3.46E-04	4.59E-03	3.64E-03	1.13E-04	2.33E-03	2.33E-03	1.34E-02	3.46E-04	4.59E-03	3.64E-03	1.13E-04	1.02E-04	2.33E-03	1.11E-02
3.44E-04	4.55E-03	3.60E-03	1.11E-04	2.31E-03	2.31E-03	1.32E-02	3.44E-04	4.55E-03	3.60E-03	1.11E-04	1.01E-04	2.31E-03	1.10E-02
3.42E-04	4.52E-03	3.57E-03	1.10E-04	2.29E-03	2.29E-03	1.31E-02	3.42E-04	4.52E-03	3.57E-03	1.10E-04	1.00E-04	2.29E-03	1.09E-02
3.41E-04	4.50E-03	3.55E-03	1.10E-04	2.27E-03	2.27E-03	1.30E-02	3.41E-04	4.50E-03	3.55E-03	1.10E-04	9.99E-05	2.27E-03	1.09E-02
3.40E-04	4.48E-03	3.53E-03	1.09E-04	2.26E-03	2.26E-03	1.30E-02	3.40E-04	4.48E-03	3.53E-03	1.09E-04	9.96E-05	2.26E-03	1.08E-02
3.38E-04	4.46E-03	3.52E-03	1.09E-04	2.25E-03	2.25E-03	1.29E-02	3.38E-04	4.46E-03	3.52E-03	1.09E-04	9.93E-05	2.25E-03	1.08E-02
3.37E-04	4.42E-03	3.49E-03	1.08E-04	2.23E-03	2.23E-03	1.28E-02	3.37E-04	4.42E-03	3.49E-03	1.08E-04	9.86E-05	2.23E-03	1.07E-02
3.36E-04	4.42E-03	3.48E-03	1.08E-04	2.22E-03	2.22E-03	1.28E-02	3.36E-04	4.42E-03	3.48E-03	1.08E-04	9.86E-05	2.22E-03	1.07E-02
3.34E-04	4.37E-03	3.44E-03	1.07E-04	2.20E-03	2.20E-03	1.27E-02	3.34E-04	4.37E-03	3.44E-03	1.07E-04	9.77E-05	2.20E-03	1.06E-02
3.33E-04	4.36E-03	3.43E-03	1.06E-04	2.19E-03	2.19E-03	1.26E-02	3.33E-04	4.36E-03	3.43E-03	1.06E-04	9.76E-05	2.19E-03	1.05E-02
3.91E-04	5.30E-03	4.21E-03	1.29E-04	2.77E-03	2.77E-03	1.56E-02	3.91E-04	5.30E-03	4.21E-03	1.29E-04	1.14E-04	2.77E-03	1.29E-02
3.97E-04	5.48E-03	4.41E-03	1.36E-04	2.88E-03	2.88E-03	1.62E-02	3.97E-04	5.48E-03	4.41E-03	1.36E-04	1.21E-04	2.88E-03	1.34E-02
4.05E-04	5.72E-03	4.64E-03	1.43E-04	3.00E-03	3.00E-03	1.69E-02	4.05E-04	5.72E-03	4.64E-03	1.43E-04	1.28E-04	3.00E-03	1.40E-02
4.05E-04	5.78E-03	4.67E-03	1.44E-04	3.00E-03	3.00E-03	1.70E-02	4.05E-04	5.78E-03	4.67E-03	1.44E-04	1.28E-04	3.00E-03	1.41E-02
4.03E-04	5.74E-03	4.63E-03	1.43E-04	2.97E-03	2.97E-03	1.68E-02	4.03E-04	5.74E-03	4.63E-03	1.43E-04	1.27E-04	2.97E-03	1.40E-02
4.00E-04	5.72E-03	4.60E-03	1.42E-04	2.95E-03	2.95E-03	1.68E-02	4.00E-04	5.72E-03	4.60E-03	1.42E-04	1.27E-04	2.95E-03	1.39E-02
3.98E-04	5.69E-03	4.56E-03	1.41E-04	2.92E-03	2.92E-03	1.66E-02	3.98E-04	5.69E-03	4.56E-03	1.41E-04	1.26E-04	2.92E-03	1.38E-02
3.94E-04	5.63E-03	4.50E-03	1.39E-04	2.88E-03	2.88E-03	1.64E-02	3.94E-04	5.63E-03	4.50E-03	1.39E-04	1.25E-04	2.88E-03	1.37E-02
3.90E-04	5.55E-03	4.42E-03	1.37E-04	2.83E-03	2.83E-03	1.62E-02	3.90E-04	5.55E-03	4.42E-03	1.37E-04	1.22E-04	2.83E-03	1.35E-02
3.87E-04	5.49E-03	4.36E-03	1.35E-04	2.79E-03	2.79E-03	1.60E-02	3.87E-04	5.49E-03	4.36E-03	1.35E-04	1.21E-04	2.79E-03	1.33E-02
3.82E-04	5.40E-03	4.27E-03	1.32E-04	2.74E-03	2.74E-03	1.57E-02	3.82E-04	5.40E-03	4.27E-03	1.32E-04	1.18E-04	2.74E-03	1.30E-02

3.78E-04	5.31E-03	4.18E-03	1.29E-04	2.69E-03	2.69E-03	1.54E-02	3.78E-04	5.31E-03	4.18E-03	1.29E-04	1.16E-04	2.69E-03	1.28E-02
3.74E-04	5.22E-03	4.09E-03	1.27E-04	2.63E-03	2.63E-03	1.51E-02	3.74E-04	5.22E-03	4.09E-03	1.27E-04	1.14E-04	2.63E-03	1.26E-02
3.69E-04	5.14E-03	4.01E-03	1.24E-04	2.58E-03	2.58E-03	1.48E-02	3.69E-04	5.14E-03	4.01E-03	1.24E-04	1.12E-04	2.58E-03	1.23E-02
3.66E-04	5.07E-03	3.95E-03	1.22E-04	2.54E-03	2.54E-03	1.46E-02	3.66E-04	5.07E-03	3.95E-03	1.22E-04	1.10E-04	2.54E-03	1.22E-02
3.62E-04	4.99E-03	3.87E-03	1.20E-04	2.50E-03	2.50E-03	1.43E-02	3.62E-04	4.99E-03	3.87E-03	1.20E-04	1.08E-04	2.50E-03	1.20E-02
3.58E-04	4.91E-03	3.79E-03	1.17E-04	2.45E-03	2.45E-03	1.41E-02	3.58E-04	4.91E-03	3.79E-03	1.17E-04	1.06E-04	2.45E-03	1.17E-02
3.55E-04	4.85E-03	3.74E-03	1.16E-04	2.42E-03	2.42E-03	1.39E-02	3.55E-04	4.85E-03	3.74E-03	1.16E-04	1.04E-04	2.42E-03	1.16E-02
3.52E-04	4.78E-03	3.68E-03	1.14E-04	2.38E-03	2.38E-03	1.37E-02	3.52E-04	4.78E-03	3.68E-03	1.14E-04	1.03E-04	2.38E-03	1.14E-02
3.50E-04	4.76E-03	3.66E-03	1.13E-04	2.36E-03	2.36E-03	1.36E-02	3.50E-04	4.76E-03	3.66E-03	1.13E-04	1.02E-04	2.36E-03	1.13E-02
3.49E-04	4.72E-03	3.63E-03	1.12E-04	2.34E-03	2.34E-03	1.35E-02	3.49E-04	4.72E-03	3.63E-03	1.12E-04	1.02E-04	2.34E-03	1.13E-02
3.47E-04	4.70E-03	3.61E-03	1.12E-04	2.33E-03	2.33E-03	1.34E-02	3.47E-04	4.70E-03	3.61E-03	1.12E-04	1.01E-04	2.33E-03	1.12E-02
3.46E-04	4.68E-03	3.59E-03	1.11E-04	2.32E-03	2.32E-03	1.34E-02	3.46E-04	4.68E-03	3.59E-03	1.11E-04	1.01E-04	2.32E-03	1.11E-02
3.46E-04	4.67E-03	3.59E-03	1.11E-04	2.31E-03	2.31E-03	1.33E-02	3.46E-04	4.67E-03	3.59E-03	1.11E-04	1.01E-04	2.31E-03	1.11E-02
3.43E-04	4.63E-03	3.55E-03	1.10E-04	2.28E-03	2.28E-03	1.32E-02	3.43E-04	4.63E-03	3.55E-03	1.10E-04	1.00E-04	2.28E-03	1.10E-02
3.42E-04	4.60E-03	3.53E-03	1.09E-04	2.27E-03	2.27E-03	1.31E-02	3.42E-04	4.60E-03	3.53E-03	1.09E-04	9.96E-05	2.27E-03	1.09E-02
3.40E-04	4.55E-03	3.48E-03	1.08E-04	2.24E-03	2.24E-03	1.30E-02	3.40E-04	4.55E-03	3.48E-03	1.08E-04	9.86E-05	2.24E-03	1.08E-02
3.38E-04	4.53E-03	3.47E-03	1.08E-04	2.23E-03	2.23E-03	1.29E-02	3.38E-04	4.53E-03	3.47E-03	1.08E-04	9.83E-05	2.23E-03	1.08E-02
4.00E-04	5.57E-03	4.26E-03	1.31E-04	2.83E-03	2.83E-03	1.60E-02	4.00E-04	5.57E-03	4.26E-03	1.31E-04	1.15E-04	2.83E-03	1.33E-02
4.09E-04	5.83E-03	4.54E-03	1.40E-04	2.99E-03	2.99E-03	1.69E-02	4.09E-04	5.83E-03	4.54E-03	1.40E-04	1.24E-04	2.99E-03	1.40E-02
4.14E-04	6.01E-03	4.71E-03	1.45E-04	3.08E-03	3.08E-03	1.74E-02	4.14E-04	6.01E-03	4.71E-03	1.45E-04	1.29E-04	3.08E-03	1.45E-02
4.13E-04	6.00E-03	4.70E-03	1.45E-04	3.07E-03	3.07E-03	1.74E-02	4.13E-04	6.00E-03	4.70E-03	1.45E-04	1.29E-04	3.07E-03	1.45E-02
4.12E-04	6.03E-03	4.70E-03	1.45E-04	3.05E-03	3.05E-03	1.74E-02	4.12E-04	6.03E-03	4.70E-03	1.45E-04	1.29E-04	3.05E-03	1.45E-02
4.09E-04	6.00E-03	4.66E-03	1.44E-04	3.02E-03	3.02E-03	1.73E-02	4.09E-04	6.00E-03	4.66E-03	1.44E-04	1.28E-04	3.02E-03	1.44E-02
4.05E-04	5.90E-03	4.57E-03	1.41E-04	2.96E-03	2.96E-03	1.69E-02	4.05E-04	5.90E-03	4.57E-03	1.41E-04	1.25E-04	2.96E-03	1.41E-02
4.03E-04	5.89E-03	4.56E-03	1.41E-04	2.95E-03	2.95E-03	1.69E-02	4.03E-04	5.89E-03	4.56E-03	1.41E-04	1.25E-04	2.95E-03	1.41E-02
3.93E-04	5.68E-03	4.36E-03	1.34E-04	2.83E-03	2.83E-03	1.62E-02	3.93E-04	5.68E-03	4.36E-03	1.34E-04	1.20E-04	2.83E-03	1.35E-02
3.94E-04	5.71E-03	4.39E-03	1.36E-04	2.84E-03	2.84E-03	1.63E-02	3.94E-04	5.71E-03	4.39E-03	1.36E-04	1.21E-04	2.84E-03	1.36E-02
3.89E-04	5.62E-03	4.30E-03	1.33E-04	2.79E-03	2.79E-03	1.60E-02	3.89E-04	5.62E-03	4.30E-03	1.33E-04	1.19E-04	2.79E-03	1.33E-02
3.85E-04	5.54E-03	4.23E-03	1.31E-04	2.74E-03	2.74E-03	1.58E-02	3.85E-04	5.54E-03	4.23E-03	1.31E-04	1.17E-04	2.74E-03	1.31E-02
3.82E-04	5.47E-03	4.16E-03	1.29E-04	2.70E-03	2.70E-03	1.55E-02	3.82E-04	5.47E-03	4.16E-03	1.29E-04	1.15E-04	2.70E-03	1.30E-02
3.76E-04	5.33E-03	4.04E-03	1.25E-04	2.63E-03	2.63E-03	1.51E-02	3.76E-04	5.33E-03	4.04E-03	1.25E-04	1.12E-04	2.63E-03	1.26E-02
3.72E-04	5.25E-03	3.96E-03	1.22E-04	2.58E-03	2.58E-03	1.49E-02	3.72E-04	5.25E-03	3.96E-03	1.22E-04	1.10E-04	2.58E-03	1.24E-02
3.70E-04	5.21E-03	3.92E-03	1.21E-04	2.55E-03	2.55E-03	1.47E-02	3.70E-04	5.21E-03	3.92E-03	1.21E-04	1.09E-04	2.55E-03	1.23E-02
3.65E-04	5.11E-03	3.83E-03	1.19E-04	2.50E-03	2.50E-03	1.44E-02	3.65E-04	5.11E-03	3.83E-03	1.19E-04	1.07E-04	2.50E-03	1.20E-02
3.62E-04	5.06E-03	3.79E-03	1.17E-04	2.47E-03	2.47E-03	1.43E-02	3.62E-04	5.06E-03	3.79E-03	1.17E-04	1.06E-04	2.47E-03	1.19E-02
3.59E-04	4.99E-03	3.73E-03	1.15E-04	2.43E-03	2.43E-03	1.41E-02	3.59E-04	4.99E-03	3.73E-03	1.15E-04	1.04E-04	2.43E-03	1.17E-02
3.58E-04	4.96E-03	3.71E-03	1.15E-04	2.42E-03	2.42E-03	1.40E-02	3.58E-04	4.96E-03	3.71E-03	1.15E-04	1.04E-04	2.42E-03	1.17E-02
3.56E-04	4.94E-03	3.70E-03	1.14E-04	2.40E-03	2.40E-03	1.39E-02	3.56E-04	4.94E-03	3.70E-03	1.14E-04	1.03E-04	2.40E-03	1.16E-02
3.54E-04	4.91E-03	3.67E-03	1.14E-04	2.38E-03	2.38E-03	1.38E-02	3.54E-04	4.91E-03	3.67E-03	1.14E-04	1.03E-04	2.38E-03	1.15E-02
3.54E-04	4.90E-03	3.66E-03	1.13E-04	2.37E-03	2.37E-03	1.38E-02	3.54E-04	4.90E-03	3.66E-03	1.13E-04	1.03E-04	2.37E-03	1.15E-02
3.52E-04	4.87E-03	3.64E-03	1.13E-04	2.36E-03	2.36E-03	1.37E-02	3.52E-04	4.87E-03	3.64E-03	1.13E-04	1.02E-04	2.36E-03	1.14E-02
3.50E-04	4.83E-03	3.61E-03	1.12E-04	2.34E-03	2.34E-03	1.36E-02	3.50E-04	4.83E-03	3.61E-03	1.12E-04	1.02E-04	2.34E-03	1.13E-02
3.48E-04	4.79E-03	3.58E-03	1.11E-04	2.31E-03	2.31E-03	1.35E-02	3.48E-04	4.79E-03	3.58E-03	1.11E-04	1.01E-04	2.31E-03	1.12E-02
3.46E-04	4.74E-03	3.54E-03	1.10E-04	2.29E-03	2.29E-03	1.33E-02	3.46E-04	4.74E-03	3.54E-03	1.10E-04	1.00E-04	2.29E-03	1.11E-02
3.44E-04	4.71E-03	3.52E-03	1.09E-04	2.27E-03	2.27E-03	1.32E-02	3.44E-04	4.71E-03	3.52E-03	1.09E-04	9.96E-05	2.27E-03	1.11E-02
4.09E-04	5.84E-03	4.33E-03	1.33E-04	2.90E-03	2.90E-03	1.65E-02	4.09E-04	5.84E-03	4.33E-03	1.33E-04	1.16E-04	2.90E-03	1.37E-02
4.21E-04	6.18E-03	4.66E-03	1.44E-04	3.10E-03	3.10E-03	1.76E-02	4.21E-04	6.18E-03	4.66E-03	1.44E-04	1.27E-04	3.10E-03	1.46E-02
4.25E-04	6.32E-03	4.79E-03	1.47E-04	3.16E-03	3.16E-03	1.80E-02	4.25E-04	6.32E-03	4.79E-03	1.47E-04	1.31E-04	3.16E-03	1.50E-02
4.23E-04	6.31E-03	4.78E-03	1.47E-04	3.15E-03	3.15E-03	1.80E-02	4.23E-04	6.31E-03	4.78E-03	1.47E-04	1.31E-04	3.15E-03	1.49E-02
4.23E-04	6.36E-03	4.79E-03	1.47E-04	3.14E-03	3.14E-03	1.80E-02	4.23E-04	6.36E-03	4.79E-03	1.47E-04	1.30E-04	3.14E-03	1.50E-02
4.18E-04	6.26E-03	4.73E-03	1.46E-04	3.09E-03	3.09E-03	1.77E-02	4.18E-04	6.26E-03	4.73E-03	1.46E-04	1.29E-04	3.09E-03	1.48E-02
4.14E-04	6.19E-03	4.65E-03	1.43E-04	3.04E-03	3.04E-03	1.75E-02	4.14E-04	6.19E-03	4.65E-03	1.43E-04	1.27E-04	3.04E-03	1.46E-02
4.10E-04	6.11E-03	4.60E-03	1.42E-04	3.01E-03	3.01E-03	1.73E-02	4.10E-04	6.11E-03	4.60E-03	1.42E-04	1.27E-04	3.01E-03	1.44E-02
4.05E-04	5.98E-03	4.48E-03	1.38E-04	2.94E-03	2.94E-03	1.69E-02	4.05E-04	5.98E-03	4.48E-03	1.38E-04	1.24E-04	2.94E-03	1.41E-02

4.03E-04	5.98E-03	4.45E-03	1.37E-04	2.91E-03	2.91E-03	1.68E-02	4.03E-04	5.98E-03	4.45E-03	1.37E-04	1.22E-04	2.91E-03	1.40E-02
3.97E-04	5.86E-03	4.35E-03	1.34E-04	2.85E-03	2.85E-03	1.64E-02	3.97E-04	5.86E-03	4.35E-03	1.34E-04	1.20E-04	2.85E-03	1.37E-02
3.93E-04	5.76E-03	4.26E-03	1.31E-04	2.79E-03	2.79E-03	1.61E-02	3.93E-04	5.76E-03	4.26E-03	1.31E-04	1.17E-04	2.79E-03	1.35E-02
3.87E-04	5.65E-03	4.16E-03	1.29E-04	2.73E-03	2.73E-03	1.58E-02	3.87E-04	5.65E-03	4.16E-03	1.29E-04	1.15E-04	2.73E-03	1.32E-02
3.84E-04	5.57E-03	4.10E-03	1.26E-04	2.69E-03	2.69E-03	1.56E-02	3.84E-04	5.57E-03	4.10E-03	1.26E-04	1.13E-04	2.69E-03	1.30E-02
3.81E-04	5.51E-03	4.05E-03	1.25E-04	2.66E-03	2.66E-03	1.54E-02	3.81E-04	5.51E-03	4.05E-03	1.25E-04	1.12E-04	2.66E-03	1.28E-02
3.77E-04	5.43E-03	3.97E-03	1.23E-04	2.61E-03	2.61E-03	1.51E-02	3.77E-04	5.43E-03	3.97E-03	1.23E-04	1.10E-04	2.61E-03	1.26E-02
3.73E-04	5.33E-03	3.89E-03	1.20E-04	2.56E-03	2.56E-03	1.48E-02	3.73E-04	5.33E-03	3.89E-03	1.20E-04	1.08E-04	2.56E-03	1.24E-02
3.70E-04	5.28E-03	3.84E-03	1.19E-04	2.53E-03	2.53E-03	1.47E-02	3.70E-04	5.28E-03	3.84E-03	1.19E-04	1.07E-04	2.53E-03	1.22E-02
3.66E-04	5.20E-03	3.78E-03	1.17E-04	2.49E-03	2.49E-03	1.44E-02	3.66E-04	5.20E-03	3.78E-03	1.17E-04	1.05E-04	2.49E-03	1.21E-02
3.65E-04	5.17E-03	3.76E-03	1.16E-04	2.47E-03	2.47E-03	1.44E-02	3.65E-04	5.17E-03	3.76E-03	1.16E-04	1.05E-04	2.47E-03	1.20E-02
3.63E-04	5.15E-03	3.75E-03	1.16E-04	2.46E-03	2.46E-03	1.43E-02	3.63E-04	5.15E-03	3.75E-03	1.16E-04	1.05E-04	2.46E-03	1.19E-02
3.62E-04	5.12E-03	3.72E-03	1.15E-04	2.44E-03	2.44E-03	1.42E-02	3.62E-04	5.12E-03	3.72E-03	1.15E-04	1.04E-04	2.44E-03	1.19E-02
3.61E-04	5.11E-03	3.72E-03	1.15E-04	2.43E-03	2.43E-03	1.42E-02	3.61E-04	5.11E-03	3.72E-03	1.15E-04	1.04E-04	2.43E-03	1.18E-02
3.59E-04	5.08E-03	3.70E-03	1.15E-04	2.41E-03	2.41E-03	1.41E-02	3.59E-04	5.08E-03	3.70E-03	1.15E-04	1.04E-04	2.41E-03	1.18E-02
3.57E-04	5.04E-03	3.67E-03	1.14E-04	2.39E-03	2.39E-03	1.40E-02	3.57E-04	5.04E-03	3.67E-03	1.14E-04	1.03E-04	2.39E-03	1.17E-02
3.55E-04	4.99E-03	3.64E-03	1.13E-04	2.37E-03	2.37E-03	1.38E-02	3.55E-04	4.99E-03	3.64E-03	1.13E-04	1.02E-04	2.37E-03	1.16E-02
3.52E-04	4.95E-03	3.60E-03	1.12E-04	2.34E-03	2.34E-03	1.37E-02	3.52E-04	4.95E-03	3.60E-03	1.12E-04	1.01E-04	2.34E-03	1.15E-02
3.51E-04	4.91E-03	3.58E-03	1.11E-04	2.32E-03	2.32E-03	1.36E-02	3.51E-04	4.91E-03	3.58E-03	1.11E-04	1.01E-04	2.32E-03	1.14E-02
4.22E-04	6.20E-03	4.47E-03	1.37E-04	3.03E-03	3.03E-03	1.73E-02	4.22E-04	6.20E-03	4.47E-03	1.37E-04	1.20E-04	3.03E-03	1.44E-02
4.33E-04	6.52E-03	4.76E-03	1.46E-04	3.19E-03	3.19E-03	1.82E-02	4.33E-04	6.52E-03	4.76E-03	1.46E-04	1.29E-04	3.19E-03	1.52E-02
4.34E-04	6.59E-03	4.82E-03	1.48E-04	3.22E-03	3.22E-03	1.84E-02	4.34E-04	6.59E-03	4.82E-03	1.48E-04	1.31E-04	3.22E-03	1.53E-02
4.34E-04	6.62E-03	4.85E-03	1.49E-04	3.23E-03	3.23E-03	1.85E-02	4.34E-04	6.62E-03	4.85E-03	1.49E-04	1.32E-04	3.23E-03	1.54E-02
4.34E-04	6.68E-03	4.87E-03	1.49E-04	3.22E-03	3.22E-03	1.86E-02	4.34E-04	6.68E-03	4.87E-03	1.49E-04	1.32E-04	3.22E-03	1.55E-02
4.31E-04	6.65E-03	4.84E-03	1.48E-04	3.20E-03	3.20E-03	1.85E-02	4.31E-04	6.65E-03	4.84E-03	1.48E-04	1.31E-04	3.20E-03	1.54E-02
4.28E-04	6.58E-03	4.79E-03	1.47E-04	3.16E-03	3.16E-03	1.83E-02	4.28E-04	6.58E-03	4.79E-03	1.47E-04	1.30E-04	3.16E-03	1.52E-02
4.23E-04	6.48E-03	4.70E-03	1.44E-04	3.10E-03	3.10E-03	1.80E-02	4.23E-04	6.48E-03	4.70E-03	1.44E-04	1.28E-04	3.10E-03	1.50E-02
4.17E-04	6.36E-03	4.60E-03	1.41E-04	3.04E-03	3.04E-03	1.76E-02	4.17E-04	6.36E-03	4.60E-03	1.41E-04	1.26E-04	3.04E-03	1.47E-02
4.11E-04	6.23E-03	4.49E-03	1.38E-04	2.97E-03	2.97E-03	1.72E-02	4.11E-04	6.23E-03	4.49E-03	1.38E-04	1.23E-04	2.97E-03	1.44E-02
4.05E-04	6.09E-03	4.37E-03	1.35E-04	2.89E-03	2.89E-03	1.68E-02	4.05E-04	6.09E-03	4.37E-03	1.35E-04	1.20E-04	2.89E-03	1.40E-02
4.01E-04	6.01E-03	4.31E-03	1.33E-04	2.85E-03	2.85E-03	1.66E-02	4.01E-04	6.01E-03	4.31E-03	1.33E-04	1.18E-04	2.85E-03	1.38E-02
3.96E-04	5.90E-03	4.22E-03	1.30E-04	2.79E-03	2.79E-03	1.62E-02	3.96E-04	5.90E-03	4.22E-03	1.30E-04	1.16E-04	2.79E-03	1.35E-02
3.92E-04	5.81E-03	4.15E-03	1.28E-04	2.75E-03	2.75E-03	1.60E-02	3.92E-04	5.81E-03	4.15E-03	1.28E-04	1.14E-04	2.75E-03	1.33E-02
3.88E-04	5.72E-03	4.08E-03	1.26E-04	2.70E-03	2.70E-03	1.57E-02	3.88E-04	5.72E-03	4.08E-03	1.26E-04	1.12E-04	2.70E-03	1.31E-02
3.85E-04	5.66E-03	4.03E-03	1.24E-04	2.67E-03	2.67E-03	1.55E-02	3.85E-04	5.66E-03	4.03E-03	1.24E-04	1.11E-04	2.67E-03	1.30E-02
3.80E-04	5.55E-03	3.94E-03	1.21E-04	2.61E-03	2.61E-03	1.52E-02	3.80E-04	5.55E-03	3.94E-03	1.21E-04	1.09E-04	2.61E-03	1.27E-02
3.76E-04	5.47E-03	3.87E-03	1.19E-04	2.57E-03	2.57E-03	1.50E-02	3.76E-04	5.47E-03	3.87E-03	1.19E-04	1.07E-04	2.57E-03	1.25E-02
3.74E-04	5.42E-03	3.83E-03	1.18E-04	2.54E-03	2.54E-03	1.48E-02	3.74E-04	5.42E-03	3.83E-03	1.18E-04	1.06E-04	2.54E-03	1.24E-02
3.72E-04	5.39E-03	3.82E-03	1.18E-04	2.52E-03	2.52E-03	1.47E-02	3.72E-04	5.39E-03	3.82E-03	1.18E-04	1.06E-04	2.52E-03	1.23E-02
3.70E-04	5.37E-03	3.80E-03	1.18E-04	2.51E-03	2.51E-03	1.47E-02	3.70E-04	5.37E-03	3.80E-03	1.18E-04	1.06E-04	2.51E-03	1.23E-02
3.69E-04	5.34E-03	3.78E-03	1.17E-04	2.49E-03	2.49E-03	1.46E-02	3.69E-04	5.34E-03	3.78E-03	1.17E-04	1.05E-04	2.49E-03	1.22E-02
3.68E-04	5.34E-03	3.79E-03	1.17E-04	2.49E-03	2.49E-03	1.46E-02	3.68E-04	5.34E-03	3.79E-03	1.17E-04	1.06E-04	2.49E-03	1.22E-02
3.66E-04	5.30E-03	3.76E-03	1.17E-04	2.47E-03	2.47E-03	1.45E-02	3.66E-04	5.30E-03	3.76E-03	1.17E-04	1.05E-04	2.47E-03	1.21E-02
3.64E-04	5.25E-03	3.73E-03	1.15E-04	2.45E-03	2.45E-03	1.44E-02	3.64E-04	5.25E-03	3.73E-03	1.15E-04	1.04E-04	2.45E-03	1.20E-02
3.62E-04	5.21E-03	3.70E-03	1.15E-04	2.43E-03	2.43E-03	1.42E-02	3.62E-04	5.21E-03	3.70E-03	1.15E-04	1.04E-04	2.43E-03	1.19E-02
3.60E-04	5.15E-03	3.66E-03	1.13E-04	2.40E-03	2.40E-03	1.41E-02	3.60E-04	5.15E-03	3.66E-03	1.13E-04	1.03E-04	2.40E-03	1.18E-02
3.58E-04	5.11E-03	3.64E-03	1.13E-04	2.38E-03	2.38E-03	1.40E-02	3.58E-04	5.11E-03	3.64E-03	1.13E-04	1.02E-04	2.38E-03	1.17E-02
4.43E-04	6.80E-03	4.78E-03	1.47E-04	3.25E-03	3.25E-03	1.87E-02	4.43E-04	6.80E-03	4.78E-03	1.47E-04	1.28E-04	3.25E-03	1.56E-02
4.49E-04	7.00E-03	4.95E-03	1.51E-04	3.34E-03	3.34E-03	1.92E-02	4.49E-04	7.00E-03	4.95E-03	1.51E-04	1.33E-04	3.34E-03	1.60E-02
4.47E-04	6.97E-03	4.93E-03	1.51E-04	3.32E-03	3.32E-03	1.91E-02	4.47E-04	6.97E-03	4.93E-03	1.51E-04	1.33E-04	3.32E-03	1.60E-02
4.45E-04	6.97E-03	4.93E-03	1.51E-04	3.32E-03	3.32E-03	1.91E-02	4.45E-04	6.97E-03	4.93E-03	1.51E-04	1.33E-04	3.32E-03	1.59E-02
4.45E-04	7.00E-03	4.93E-03	1.50E-04	3.29E-03	3.29E-03	1.91E-02	4.45E-04	7.00E-03	4.93E-03	1.50E-04	1.32E-04	3.29E-03	1.60E-02
4.42E-04	6.95E-03	4.89E-03	1.49E-04	3.26E-03	3.26E-03	1.90E-02	4.42E-04	6.95E-03	4.89E-03	1.49E-04	1.32E-04	3.26E-03	1.58E-02
4.37E-04	6.87E-03	4.83E-03	1.47E-04	3.22E-03	3.22E-03	1.87E-02	4.37E-04	6.87E-03	4.83E-03	1.47E-04	1.30E-04	3.22E-03	1.56E-02

4.32E-04	6.76E-03	4.75E-03	1.45E-04	3.16E-03	3.16E-03	1.84E-02	4.32E-04	6.76E-03	4.75E-03	1.45E-04	1.28E-04	3.16E-03	1.54E-02
4.25E-04	6.61E-03	4.63E-03	1.42E-04	3.09E-03	3.09E-03	1.80E-02	4.25E-04	6.61E-03	4.63E-03	1.42E-04	1.26E-04	3.09E-03	1.50E-02
4.19E-04	6.47E-03	4.52E-03	1.39E-04	3.02E-03	3.02E-03	1.76E-02	4.19E-04	6.47E-03	4.52E-03	1.39E-04	1.23E-04	3.02E-03	1.47E-02
4.14E-04	6.35E-03	4.43E-03	1.36E-04	2.96E-03	2.96E-03	1.72E-02	4.14E-04	6.35E-03	4.43E-03	1.36E-04	1.21E-04	2.96E-03	1.44E-02
4.10E-04	6.27E-03	4.37E-03	1.34E-04	2.91E-03	2.91E-03	1.70E-02	4.10E-04	6.27E-03	4.37E-03	1.34E-04	1.19E-04	2.91E-03	1.42E-02
4.05E-04	6.17E-03	4.28E-03	1.32E-04	2.86E-03	2.86E-03	1.67E-02	4.05E-04	6.17E-03	4.28E-03	1.32E-04	1.17E-04	2.86E-03	1.40E-02
4.01E-04	6.07E-03	4.21E-03	1.29E-04	2.81E-03	2.81E-03	1.64E-02	4.01E-04	6.07E-03	4.21E-03	1.29E-04	1.15E-04	2.81E-03	1.37E-02
3.97E-04	5.99E-03	4.15E-03	1.28E-04	2.77E-03	2.77E-03	1.62E-02	3.97E-04	5.99E-03	4.15E-03	1.28E-04	1.14E-04	2.77E-03	1.36E-02
3.93E-04	5.90E-03	4.08E-03	1.26E-04	2.72E-03	2.72E-03	1.59E-02	3.93E-04	5.90E-03	4.08E-03	1.26E-04	1.12E-04	2.72E-03	1.33E-02
3.86E-04	5.75E-03	3.96E-03	1.22E-04	2.65E-03	2.65E-03	1.55E-02	3.86E-04	5.75E-03	3.96E-03	1.22E-04	1.09E-04	2.65E-03	1.30E-02
3.82E-04	5.66E-03	3.89E-03	1.20E-04	2.60E-03	2.60E-03	1.53E-02	3.82E-04	5.66E-03	3.89E-03	1.20E-04	1.07E-04	2.60E-03	1.28E-02
3.81E-04	5.65E-03	3.90E-03	1.20E-04	2.60E-03	2.60E-03	1.52E-02	3.81E-04	5.65E-03	3.90E-03	1.20E-04	1.08E-04	2.60E-03	1.28E-02
3.80E-04	5.62E-03	3.88E-03	1.19E-04	2.58E-03	2.58E-03	1.52E-02	3.80E-04	5.62E-03	3.88E-03	1.19E-04	1.07E-04	2.58E-03	1.27E-02
3.78E-04	5.60E-03	3.87E-03	1.19E-04	2.57E-03	2.57E-03	1.51E-02	3.78E-04	5.60E-03	3.87E-03	1.19E-04	1.07E-04	2.57E-03	1.26E-02
3.77E-04	5.57E-03	3.85E-03	1.19E-04	2.56E-03	2.56E-03	1.50E-02	3.77E-04	5.57E-03	3.85E-03	1.19E-04	1.07E-04	2.56E-03	1.26E-02
3.75E-04	5.54E-03	3.84E-03	1.18E-04	2.54E-03	2.54E-03	1.50E-02	3.75E-04	5.54E-03	3.84E-03	1.18E-04	1.07E-04	2.54E-03	1.25E-02
3.74E-04	5.52E-03	3.83E-03	1.18E-04	2.53E-03	2.53E-03	1.49E-02	3.74E-04	5.52E-03	3.83E-03	1.18E-04	1.07E-04	2.53E-03	1.25E-02
3.72E-04	5.46E-03	3.80E-03	1.18E-04	2.51E-03	2.51E-03	1.48E-02	3.72E-04	5.46E-03	3.80E-03	1.18E-04	1.06E-04	2.51E-03	1.24E-02
3.69E-04	5.40E-03	3.74E-03	1.16E-04	2.47E-03	2.47E-03	1.46E-02	3.69E-04	5.40E-03	3.74E-03	1.16E-04	1.05E-04	2.47E-03	1.22E-02
3.66E-04	5.33E-03	3.69E-03	1.14E-04	2.44E-03	2.44E-03	1.44E-02	3.66E-04	5.33E-03	3.69E-03	1.14E-04	1.03E-04	2.44E-03	1.20E-02
3.64E-04	5.31E-03	3.68E-03	1.14E-04	2.43E-03	2.43E-03	1.43E-02	3.64E-04	5.31E-03	3.68E-03	1.14E-04	1.03E-04	2.43E-03	1.20E-02
4.57E-04	7.22E-03	4.91E-03	1.50E-04	3.36E-03	3.36E-03	1.95E-02	4.57E-04	7.22E-03	4.91E-03	1.50E-04	1.31E-04	3.36E-03	1.62E-02
4.61E-04	7.36E-03	5.03E-03	1.53E-04	3.43E-03	3.43E-03	1.99E-02	4.61E-04	7.36E-03	5.03E-03	1.53E-04	1.34E-04	3.43E-03	1.66E-02
4.59E-04	7.36E-03	5.03E-03	1.53E-04	3.42E-03	3.42E-03	1.99E-02	4.59E-04	7.36E-03	5.03E-03	1.53E-04	1.34E-04	3.42E-03	1.66E-02
4.60E-04	7.42E-03	5.05E-03	1.53E-04	3.41E-03	3.41E-03	1.99E-02	4.60E-04	7.42E-03	5.05E-03	1.53E-04	1.34E-04	3.41E-03	1.66E-02
4.58E-04	7.39E-03	5.03E-03	1.53E-04	3.39E-03	3.39E-03	1.98E-02	4.58E-04	7.39E-03	5.03E-03	1.53E-04	1.34E-04	3.39E-03	1.66E-02
4.53E-04	7.30E-03	4.97E-03	1.51E-04	3.35E-03	3.35E-03	1.96E-02	4.53E-04	7.30E-03	4.97E-03	1.51E-04	1.33E-04	3.35E-03	1.63E-02
4.46E-04	7.14E-03	4.85E-03	1.48E-04	3.27E-03	3.27E-03	1.91E-02	4.46E-04	7.14E-03	4.85E-03	1.48E-04	1.30E-04	3.27E-03	1.60E-02
4.42E-04	7.05E-03	4.79E-03	1.46E-04	3.22E-03	3.22E-03	1.89E-02	4.42E-04	7.05E-03	4.79E-03	1.46E-04	1.29E-04	3.22E-03	1.58E-02
4.35E-04	6.90E-03	4.68E-03	1.43E-04	3.15E-03	3.15E-03	1.85E-02	4.35E-04	6.90E-03	4.68E-03	1.43E-04	1.26E-04	3.15E-03	1.54E-02
4.28E-04	6.74E-03	4.56E-03	1.39E-04	3.07E-03	3.07E-03	1.80E-02	4.28E-04	6.74E-03	4.56E-03	1.39E-04	1.23E-04	3.07E-03	1.51E-02
4.23E-04	6.63E-03	4.48E-03	1.37E-04	3.02E-03	3.02E-03	1.77E-02	4.23E-04	6.63E-03	4.48E-03	1.37E-04	1.21E-04	3.02E-03	1.48E-02
4.20E-04	6.55E-03	4.43E-03	1.36E-04	2.98E-03	2.98E-03	1.75E-02	4.20E-04	6.55E-03	4.43E-03	1.36E-04	1.20E-04	2.98E-03	1.46E-02
4.13E-04	6.40E-03	4.31E-03	1.32E-04	2.90E-03	2.90E-03	1.71E-02	4.13E-04	6.40E-03	4.31E-03	1.32E-04	1.17E-04	2.90E-03	1.43E-02
4.09E-04	6.30E-03	4.25E-03	1.30E-04	2.86E-03	2.86E-03	1.68E-02	4.09E-04	6.30E-03	4.25E-03	1.30E-04	1.16E-04	2.86E-03	1.41E-02
4.05E-04	6.22E-03	4.18E-03	1.28E-04	2.82E-03	2.82E-03	1.66E-02	4.05E-04	6.22E-03	4.18E-03	1.28E-04	1.14E-04	2.82E-03	1.39E-02
3.99E-04	6.10E-03	4.09E-03	1.26E-04	2.76E-03	2.76E-03	1.62E-02	3.99E-04	6.10E-03	4.09E-03	1.26E-04	1.12E-04	2.76E-03	1.36E-02
3.93E-04	5.93E-03	3.97E-03	1.22E-04	2.68E-03	2.68E-03	1.58E-02	3.93E-04	5.93E-03	3.97E-03	1.22E-04	1.09E-04	2.68E-03	1.32E-02
3.89E-04	5.87E-03	3.93E-03	1.21E-04	2.65E-03	2.65E-03	1.56E-02	3.89E-04	5.87E-03	3.93E-03	1.21E-04	1.08E-04	2.65E-03	1.31E-02
3.89E-04	5.88E-03	3.95E-03	1.22E-04	2.65E-03	2.65E-03	1.57E-02	3.89E-04	5.88E-03	3.95E-03	1.22E-04	1.09E-04	2.65E-03	1.31E-02
3.88E-04	5.86E-03	3.94E-03	1.21E-04	2.64E-03	2.64E-03	1.56E-02	3.88E-04	5.86E-03	3.94E-03	1.21E-04	1.09E-04	2.64E-03	1.31E-02
3.86E-04	5.82E-03	3.92E-03	1.21E-04	2.62E-03	2.62E-03	1.55E-02	3.86E-04	5.82E-03	3.92E-03	1.21E-04	1.08E-04	2.62E-03	1.30E-02
3.84E-04	5.79E-03	3.90E-03	1.20E-04	2.61E-03	2.61E-03	1.54E-02	3.84E-04	5.79E-03	3.90E-03	1.20E-04	1.08E-04	2.61E-03	1.29E-02
3.83E-04	5.77E-03	3.90E-03	1.20E-04	2.60E-03	2.60E-03	1.54E-02	3.83E-04	5.77E-03	3.90E-03	1.20E-04	1.08E-04	2.60E-03	1.29E-02
3.81E-04	5.73E-03	3.88E-03	1.19E-04	2.58E-03	2.58E-03	1.53E-02	3.81E-04	5.73E-03	3.88E-03	1.19E-04	1.08E-04	2.58E-03	1.28E-02
3.78E-04	5.66E-03	3.83E-03	1.18E-04	2.55E-03	2.55E-03	1.51E-02	3.78E-04	5.66E-03	3.83E-03	1.18E-04	1.07E-04	2.55E-03	1.27E-02
3.76E-04	5.61E-03	3.80E-03	1.17E-04	2.52E-03	2.52E-03	1.50E-02	3.76E-04	5.61E-03	3.80E-03	1.17E-04	1.06E-04	2.52E-03	1.25E-02
3.73E-04	5.54E-03	3.75E-03	1.16E-04	2.49E-03	2.49E-03	1.48E-02	3.73E-04	5.54E-03	3.75E-03	1.16E-04	1.05E-04	2.49E-03	1.24E-02
3.72E-04	5.52E-03	3.75E-03	1.16E-04	2.48E-03	2.48E-03	1.47E-02	3.72E-04	5.52E-03	3.75E-03	1.16E-04	1.05E-04	2.48E-03	1.23E-02
4.75E-04	7.75E-03	5.11E-03	1.55E-04	3.52E-03	3.52E-03	2.05E-02	4.75E-04	7.75E-03	5.11E-03	1.55E-04	1.35E-04	3.52E-03	1.71E-02
4.75E-04	7.80E-03	5.15E-03	1.56E-04	3.54E-03	3.54E-03	2.07E-02	4.75E-04	7.80E-03	5.15E-03	1.56E-04	1.36E-04	3.54E-03	1.73E-02
4.71E-04	7.73E-03	5.10E-03	1.54E-04	3.50E-03	3.50E-03	2.05E-02	4.71E-04	7.73E-03	5.10E-03	1.54E-04	1.35E-04	3.50E-03	1.71E-02
4.72E-04	7.79E-03	5.12E-03	1.54E-04	3.49E-03	3.49E-03	2.05E-02	4.72E-04	7.79E-03	5.12E-03	1.54E-04	1.35E-04	3.49E-03	1.72E-02
4.69E-04	7.73E-03	5.08E-03	1.53E-04	3.46E-03	3.46E-03	2.04E-02	4.69E-04	7.73E-03	5.08E-03	1.53E-04	1.34E-04	3.46E-03	1.70E-02

4.64E-04	7.63E-03	5.02E-03	1.52E-04	3.41E-03	3.41E-03	2.01E-02	4.64E-04	7.63E-03	5.02E-03	1.52E-04	1.33E-04	3.41E-03	1.68E-02
4.58E-04	7.48E-03	4.92E-03	1.49E-04	3.35E-03	3.35E-03	1.97E-02	4.58E-04	7.48E-03	4.92E-03	1.49E-04	1.31E-04	3.35E-03	1.65E-02
4.51E-04	7.35E-03	4.83E-03	1.47E-04	3.28E-03	3.28E-03	1.93E-02	4.51E-04	7.35E-03	4.83E-03	1.47E-04	1.29E-04	3.28E-03	1.62E-02
4.44E-04	7.17E-03	4.71E-03	1.43E-04	3.20E-03	3.20E-03	1.89E-02	4.44E-04	7.17E-03	4.71E-03	1.43E-04	1.26E-04	3.20E-03	1.58E-02
4.38E-04	7.03E-03	4.61E-03	1.41E-04	3.13E-03	3.13E-03	1.85E-02	4.38E-04	7.03E-03	4.61E-03	1.41E-04	1.24E-04	3.13E-03	1.55E-02
4.34E-04	6.94E-03	4.55E-03	1.39E-04	3.09E-03	3.09E-03	1.82E-02	4.34E-04	6.94E-03	4.55E-03	1.39E-04	1.22E-04	3.09E-03	1.53E-02
4.29E-04	6.84E-03	4.49E-03	1.37E-04	3.04E-03	3.04E-03	1.80E-02	4.29E-04	6.84E-03	4.49E-03	1.37E-04	1.21E-04	3.04E-03	1.51E-02
4.24E-04	6.71E-03	4.40E-03	1.34E-04	2.98E-03	2.98E-03	1.76E-02	4.24E-04	6.71E-03	4.40E-03	1.34E-04	1.19E-04	2.98E-03	1.48E-02
4.20E-04	6.63E-03	4.35E-03	1.33E-04	2.95E-03	2.95E-03	1.74E-02	4.20E-04	6.63E-03	4.35E-03	1.33E-04	1.18E-04	2.95E-03	1.46E-02
4.12E-04	6.44E-03	4.21E-03	1.29E-04	2.86E-03	2.86E-03	1.69E-02	4.12E-04	6.44E-03	4.21E-03	1.29E-04	1.14E-04	2.86E-03	1.42E-02
4.05E-04	6.26E-03	4.08E-03	1.25E-04	2.77E-03	2.77E-03	1.64E-02	4.05E-04	6.26E-03	4.08E-03	1.25E-04	1.11E-04	2.77E-03	1.37E-02
3.99E-04	6.12E-03	3.98E-03	1.22E-04	2.71E-03	2.71E-03	1.60E-02	3.99E-04	6.12E-03	3.98E-03	1.22E-04	1.08E-04	2.71E-03	1.34E-02
4.00E-04	6.15E-03	4.02E-03	1.23E-04	2.72E-03	2.72E-03	1.61E-02	4.00E-04	6.15E-03	4.02E-03	1.23E-04	1.10E-04	2.72E-03	1.35E-02
3.98E-04	6.13E-03	4.01E-03	1.23E-04	2.71E-03	2.71E-03	1.61E-02	3.98E-04	6.13E-03	4.01E-03	1.23E-04	1.10E-04	2.71E-03	1.35E-02
3.96E-04	6.10E-03	4.00E-03	1.23E-04	2.70E-03	2.70E-03	1.60E-02	3.96E-04	6.10E-03	4.00E-03	1.23E-04	1.10E-04	2.70E-03	1.34E-02
3.93E-04	6.03E-03	3.95E-03	1.21E-04	2.67E-03	2.67E-03	1.58E-02	3.93E-04	6.03E-03	3.95E-03	1.21E-04	1.09E-04	2.67E-03	1.33E-02
3.92E-04	6.01E-03	3.95E-03	1.21E-04	2.66E-03	2.66E-03	1.58E-02	3.92E-04	6.01E-03	3.95E-03	1.21E-04	1.09E-04	2.66E-03	1.32E-02
3.91E-04	6.00E-03	3.95E-03	1.21E-04	2.65E-03	2.65E-03	1.58E-02	3.91E-04	6.00E-03	3.95E-03	1.21E-04	1.09E-04	2.65E-03	1.32E-02
3.89E-04	5.95E-03	3.93E-03	1.21E-04	2.63E-03	2.63E-03	1.57E-02	3.89E-04	5.95E-03	3.93E-03	1.21E-04	1.09E-04	2.63E-03	1.31E-02
3.87E-04	5.93E-03	3.93E-03	1.21E-04	2.62E-03	2.62E-03	1.56E-02	3.87E-04	5.93E-03	3.93E-03	1.21E-04	1.09E-04	2.62E-03	1.31E-02
3.83E-04	5.83E-03	3.86E-03	1.19E-04	2.58E-03	2.58E-03	1.53E-02	3.83E-04	5.83E-03	3.86E-03	1.19E-04	1.07E-04	2.58E-03	1.29E-02
3.80E-04	5.76E-03	3.81E-03	1.17E-04	2.55E-03	2.55E-03	1.52E-02	3.80E-04	5.76E-03	3.81E-03	1.17E-04	1.06E-04	2.55E-03	1.27E-02
3.79E-04	5.74E-03	3.81E-03	1.17E-04	2.54E-03	2.54E-03	1.51E-02	3.79E-04	5.74E-03	3.81E-03	1.17E-04	1.06E-04	2.54E-03	1.27E-02
4.91E-04	8.24E-03	5.24E-03	1.57E-04	3.64E-03	3.64E-03	2.14E-02	4.91E-04	8.24E-03	5.24E-03	1.57E-04	1.37E-04	3.64E-03	1.79E-02
4.88E-04	8.21E-03	5.23E-03	1.57E-04	3.62E-03	3.62E-03	2.13E-02	4.88E-04	8.21E-03	5.23E-03	1.57E-04	1.36E-04	3.62E-03	1.78E-02
4.87E-04	8.23E-03	5.21E-03	1.56E-04	3.60E-03	3.60E-03	2.13E-02	4.87E-04	8.23E-03	5.21E-03	1.56E-04	1.36E-04	3.60E-03	1.78E-02
4.84E-04	8.17E-03	5.18E-03	1.55E-04	3.57E-03	3.57E-03	2.11E-02	4.84E-04	8.17E-03	5.18E-03	1.55E-04	1.35E-04	3.57E-03	1.77E-02
4.81E-04	8.11E-03	5.15E-03	1.54E-04	3.54E-03	3.54E-03	2.10E-02	4.81E-04	8.11E-03	5.15E-03	1.54E-04	1.35E-04	3.54E-03	1.76E-02
4.74E-04	7.95E-03	5.05E-03	1.52E-04	3.47E-03	3.47E-03	2.06E-02	4.74E-04	7.95E-03	5.05E-03	1.52E-04	1.33E-04	3.47E-03	1.72E-02
4.69E-04	7.81E-03	4.97E-03	1.50E-04	3.41E-03	3.41E-03	2.02E-02	4.69E-04	7.81E-03	4.97E-03	1.50E-04	1.31E-04	3.41E-03	1.69E-02
4.61E-04	7.65E-03	4.86E-03	1.47E-04	3.34E-03	3.34E-03	1.98E-02	4.61E-04	7.65E-03	4.86E-03	1.47E-04	1.29E-04	3.34E-03	1.66E-02
4.54E-04	7.46E-03	4.74E-03	1.44E-04	3.25E-03	3.25E-03	1.93E-02	4.54E-04	7.46E-03	4.74E-03	1.44E-04	1.26E-04	3.25E-03	1.62E-02
4.49E-04	7.34E-03	4.67E-03	1.42E-04	3.20E-03	3.20E-03	1.90E-02	4.49E-04	7.34E-03	4.67E-03	1.42E-04	1.24E-04	3.20E-03	1.59E-02
4.45E-04	7.26E-03	4.62E-03	1.40E-04	3.16E-03	3.16E-03	1.88E-02	4.45E-04	7.26E-03	4.62E-03	1.40E-04	1.23E-04	3.16E-03	1.58E-02
4.39E-04	7.13E-03	4.54E-03	1.38E-04	3.10E-03	3.10E-03	1.85E-02	4.39E-04	7.13E-03	4.54E-03	1.38E-04	1.22E-04	3.10E-03	1.55E-02
4.34E-04	7.00E-03	4.46E-03	1.36E-04	3.05E-03	3.05E-03	1.81E-02	4.34E-04	7.00E-03	4.46E-03	1.36E-04	1.20E-04	3.05E-03	1.52E-02
4.28E-04	6.87E-03	4.37E-03	1.33E-04	2.99E-03	2.99E-03	1.78E-02	4.28E-04	6.87E-03	4.37E-03	1.33E-04	1.18E-04	2.99E-03	1.49E-02
4.16E-04	6.55E-03	4.15E-03	1.27E-04	2.84E-03	2.84E-03	1.69E-02	4.16E-04	6.55E-03	4.15E-03	1.27E-04	1.12E-04	2.84E-03	1.42E-02
4.13E-04	6.48E-03	4.10E-03	1.25E-04	2.81E-03	2.81E-03	1.67E-02	4.13E-04	6.48E-03	4.10E-03	1.25E-04	1.11E-04	2.81E-03	1.40E-02
4.07E-04	6.34E-03	4.01E-03	1.23E-04	2.75E-03	2.75E-03	1.64E-02	4.07E-04	6.34E-03	4.01E-03	1.23E-04	1.09E-04	2.75E-03	1.37E-02
4.09E-04	6.41E-03	4.08E-03	1.25E-04	2.78E-03	2.78E-03	1.66E-02	4.09E-04	6.41E-03	4.08E-03	1.25E-04	1.11E-04	2.78E-03	1.39E-02
4.06E-04	6.36E-03	4.06E-03	1.24E-04	2.76E-03	2.76E-03	1.65E-02	4.06E-04	6.36E-03	4.06E-03	1.24E-04	1.10E-04	2.76E-03	1.38E-02
4.05E-04	6.34E-03	4.05E-03	1.24E-04	2.75E-03	2.75E-03	1.64E-02	4.05E-04	6.34E-03	4.05E-03	1.24E-04	1.11E-04	2.75E-03	1.38E-02
4.03E-04	6.29E-03	4.03E-03	1.23E-04	2.73E-03	2.73E-03	1.63E-02	4.03E-04	6.29E-03	4.03E-03	1.23E-04	1.10E-04	2.73E-03	1.37E-02
4.01E-04	6.26E-03	4.02E-03	1.23E-04	2.72E-03	2.72E-03	1.63E-02	4.01E-04	6.26E-03	4.02E-03	1.23E-04	1.10E-04	2.72E-03	1.36E-02
3.99E-04	6.22E-03	4.01E-03	1.23E-04	2.71E-03	2.71E-03	1.62E-02	3.99E-04	6.22E-03	4.01E-03	1.23E-04	1.10E-04	2.71E-03	1.36E-02
3.97E-04	6.19E-03	4.00E-03	1.22E-04	2.69E-03	2.69E-03	1.61E-02	3.97E-04	6.19E-03	4.00E-03	1.22E-04	1.10E-04	2.69E-03	1.35E-02
3.94E-04	6.10E-03	3.94E-03	1.21E-04	2.65E-03	2.65E-03	1.59E-02	3.94E-04	6.10E-03	3.94E-03	1.21E-04	1.08E-04	2.65E-03	1.33E-02
3.91E-04	6.05E-03	3.91E-03	1.20E-04	2.63E-03	2.63E-03	1.57E-02	3.91E-04	6.05E-03	3.91E-03	1.20E-04	1.08E-04	2.63E-03	1.32E-02
3.88E-04	5.98E-03	3.87E-03	1.19E-04	2.60E-03	2.60E-03	1.56E-02	3.88E-04	5.98E-03	3.87E-03	1.19E-04	1.07E-04	2.60E-03	1.31E-02
3.88E-04	5.99E-03	3.89E-03	1.19E-04	2.61E-03	2.61E-03	1.56E-02	3.88E-04	5.99E-03	3.89E-03	1.19E-04	1.08E-04	2.61E-03	1.31E-02
5.05E-04	8.71E-03	5.33E-03	1.59E-04	3.74E-03	3.74E-03	2.22E-02	5.05E-04	8.71E-03	5.33E-03	1.59E-04	1.38E-04	3.74E-03	1.86E-02
5.05E-04	8.75E-03	5.33E-03	1.59E-04	3.73E-03	3.73E-03	2.22E-02	5.05E-04	8.75E-03	5.33E-03	1.59E-04	1.37E-04	3.73E-03	1.86E-02
5.01E-04	8.66E-03	5.28E-03	1.57E-04	3.68E-03	3.68E-03	2.20E-02	5.01E-04	8.66E-03	5.28E-03	1.57E-04	1.36E-04	3.68E-03	1.84E-02

4.96E-04	8.55E-03	5.22E-03	1.56E-04	3.64E-03	3.64E-03	2.17E-02	4.96E-04	8.55E-03	5.22E-03	1.56E-04	1.35E-04	3.64E-03	1.82E-02
4.90E-04	8.41E-03	5.15E-03	1.54E-04	3.58E-03	3.58E-03	2.14E-02	4.90E-04	8.41E-03	5.15E-03	1.54E-04	1.34E-04	3.58E-03	1.79E-02
4.85E-04	8.29E-03	5.09E-03	1.52E-04	3.53E-03	3.53E-03	2.11E-02	4.85E-04	8.29E-03	5.09E-03	1.52E-04	1.32E-04	3.53E-03	1.77E-02
4.79E-04	8.13E-03	5.00E-03	1.50E-04	3.46E-03	3.46E-03	2.07E-02	4.79E-04	8.13E-03	5.00E-03	1.50E-04	1.31E-04	3.46E-03	1.74E-02
4.72E-04	7.97E-03	4.90E-03	1.47E-04	3.39E-03	3.39E-03	2.03E-02	4.72E-04	7.97E-03	4.90E-03	1.47E-04	1.29E-04	3.39E-03	1.70E-02
4.66E-04	7.82E-03	4.82E-03	1.45E-04	3.33E-03	3.33E-03	1.99E-02	4.66E-04	7.82E-03	4.82E-03	1.45E-04	1.27E-04	3.33E-03	1.67E-02
4.59E-04	7.66E-03	4.72E-03	1.43E-04	3.26E-03	3.26E-03	1.95E-02	4.59E-04	7.66E-03	4.72E-03	1.43E-04	1.25E-04	3.26E-03	1.64E-02
4.55E-04	7.55E-03	4.66E-03	1.41E-04	3.22E-03	3.22E-03	1.92E-02	4.55E-04	7.55E-03	4.66E-03	1.41E-04	1.24E-04	3.22E-03	1.61E-02
4.50E-04	7.43E-03	4.60E-03	1.39E-04	3.17E-03	3.17E-03	1.89E-02	4.50E-04	7.43E-03	4.60E-03	1.39E-04	1.22E-04	3.17E-03	1.59E-02
4.43E-04	7.27E-03	4.49E-03	1.36E-04	3.09E-03	3.09E-03	1.85E-02	4.43E-04	7.27E-03	4.49E-03	1.36E-04	1.20E-04	3.09E-03	1.56E-02
4.34E-04	7.04E-03	4.34E-03	1.32E-04	2.99E-03	2.99E-03	1.79E-02	4.34E-04	7.04E-03	4.34E-03	1.32E-04	1.16E-04	2.99E-03	1.51E-02
4.27E-04	6.86E-03	4.23E-03	1.29E-04	2.92E-03	2.92E-03	1.75E-02	4.27E-04	6.86E-03	4.23E-03	1.29E-04	1.14E-04	2.92E-03	1.47E-02
4.22E-04	6.74E-03	4.16E-03	1.27E-04	2.87E-03	2.87E-03	1.72E-02	4.22E-04	6.74E-03	4.16E-03	1.27E-04	1.12E-04	2.87E-03	1.44E-02
4.19E-04	6.67E-03	4.12E-03	1.26E-04	2.84E-03	2.84E-03	1.70E-02	4.19E-04	6.67E-03	4.12E-03	1.26E-04	1.11E-04	2.84E-03	1.43E-02
4.19E-04	6.69E-03	4.15E-03	1.27E-04	2.85E-03	2.85E-03	1.71E-02	4.19E-04	6.69E-03	4.15E-03	1.27E-04	1.12E-04	2.85E-03	1.43E-02
4.15E-04	6.60E-03	4.11E-03	1.25E-04	2.81E-03	2.81E-03	1.69E-02	4.15E-04	6.60E-03	4.11E-03	1.25E-04	1.11E-04	2.81E-03	1.42E-02
4.14E-04	6.60E-03	4.12E-03	1.26E-04	2.81E-03	2.81E-03	1.69E-02	4.14E-04	6.60E-03	4.12E-03	1.26E-04	1.12E-04	2.81E-03	1.42E-02
4.11E-04	6.54E-03	4.09E-03	1.25E-04	2.79E-03	2.79E-03	1.67E-02	4.11E-04	6.54E-03	4.09E-03	1.25E-04	1.11E-04	2.79E-03	1.41E-02
4.09E-04	6.50E-03	4.07E-03	1.24E-04	2.77E-03	2.77E-03	1.66E-02	4.09E-04	6.50E-03	4.07E-03	1.24E-04	1.11E-04	2.77E-03	1.40E-02
4.08E-04	6.48E-03	4.07E-03	1.24E-04	2.77E-03	2.77E-03	1.66E-02	4.08E-04	6.48E-03	4.07E-03	1.24E-04	1.11E-04	2.77E-03	1.40E-02
4.07E-04	6.45E-03	4.07E-03	1.24E-04	2.76E-03	2.76E-03	1.66E-02	4.07E-04	6.45E-03	4.07E-03	1.24E-04	1.11E-04	2.76E-03	1.39E-02
4.03E-04	6.35E-03	4.01E-03	1.23E-04	2.72E-03	2.72E-03	1.63E-02	4.03E-04	6.35E-03	4.01E-03	1.23E-04	1.10E-04	2.72E-03	1.37E-02
3.99E-04	6.28E-03	3.97E-03	1.21E-04	2.68E-03	2.68E-03	1.61E-02	3.99E-04	6.28E-03	3.97E-03	1.21E-04	1.09E-04	2.68E-03	1.36E-02
3.96E-04	6.20E-03	3.93E-03	1.20E-04	2.66E-03	2.66E-03	1.60E-02	3.96E-04	6.20E-03	3.93E-03	1.20E-04	1.08E-04	2.66E-03	1.34E-02
3.96E-04	6.21E-03	3.94E-03	1.21E-04	2.66E-03	2.66E-03	1.60E-02	3.96E-04	6.21E-03	3.94E-03	1.21E-04	1.08E-04	2.66E-03	1.34E-02
5.23E-04	9.28E-03	5.42E-03	1.60E-04	3.84E-03	3.84E-03	2.31E-02	5.23E-04	9.28E-03	5.42E-03	1.60E-04	1.38E-04	3.84E-03	1.94E-02
5.19E-04	9.18E-03	5.38E-03	1.59E-04	3.80E-03	3.80E-03	2.28E-02	5.19E-04	9.18E-03	5.38E-03	1.59E-04	1.37E-04	3.80E-03	1.92E-02
5.15E-04	9.11E-03	5.35E-03	1.58E-04	3.77E-03	3.77E-03	2.27E-02	5.15E-04	9.11E-03	5.35E-03	1.58E-04	1.37E-04	3.77E-03	1.90E-02
5.10E-04	8.98E-03	5.29E-03	1.56E-04	3.72E-03	3.72E-03	2.24E-02	5.10E-04	8.98E-03	5.29E-03	1.56E-04	1.35E-04	3.72E-03	1.88E-02
5.02E-04	8.80E-03	5.20E-03	1.54E-04	3.65E-03	3.65E-03	2.20E-02	5.02E-04	8.80E-03	5.20E-03	1.54E-04	1.34E-04	3.65E-03	1.84E-02
4.97E-04	8.66E-03	5.13E-03	1.52E-04	3.59E-03	3.59E-03	2.16E-02	4.97E-04	8.66E-03	5.13E-03	1.52E-04	1.32E-04	3.59E-03	1.82E-02
4.89E-04	8.45E-03	5.02E-03	1.50E-04	3.51E-03	3.51E-03	2.11E-02	4.89E-04	8.45E-03	5.02E-03	1.50E-04	1.30E-04	3.51E-03	1.77E-02
4.83E-04	8.32E-03	4.95E-03	1.48E-04	3.46E-03	3.46E-03	2.08E-02	4.83E-04	8.32E-03	4.95E-03	1.48E-04	1.29E-04	3.46E-03	1.75E-02
4.75E-04	8.09E-03	4.83E-03	1.45E-04	3.37E-03	3.37E-03	2.03E-02	4.75E-04	8.09E-03	4.83E-03	1.45E-04	1.26E-04	3.37E-03	1.70E-02
4.72E-04	8.02E-03	4.79E-03	1.44E-04	3.34E-03	3.34E-03	2.01E-02	4.72E-04	8.02E-03	4.79E-03	1.44E-04	1.26E-04	3.34E-03	1.69E-02
4.66E-04	7.87E-03	4.71E-03	1.42E-04	3.28E-03	3.28E-03	1.98E-02	4.66E-04	7.87E-03	4.71E-03	1.42E-04	1.24E-04	3.28E-03	1.66E-02
4.60E-04	7.74E-03	4.64E-03	1.40E-04	3.23E-03	3.23E-03	1.94E-02	4.60E-04	7.74E-03	4.64E-03	1.40E-04	1.22E-04	3.23E-03	1.63E-02
4.53E-04	7.56E-03	4.54E-03	1.37E-04	3.15E-03	3.15E-03	1.90E-02	4.53E-04	7.56E-03	4.54E-03	1.37E-04	1.20E-04	3.15E-03	1.60E-02
4.43E-04	7.30E-03	4.38E-03	1.33E-04	3.04E-03	3.04E-03	1.83E-02	4.43E-04	7.30E-03	4.38E-03	1.33E-04	1.17E-04	3.04E-03	1.54E-02
4.33E-04	7.04E-03	4.22E-03	1.28E-04	2.93E-03	2.93E-03	1.77E-02	4.33E-04	7.04E-03	4.22E-03	1.28E-04	1.13E-04	2.93E-03	1.49E-02
4.32E-04	7.02E-03	4.22E-03	1.28E-04	2.93E-03	2.93E-03	1.76E-02	4.32E-04	7.02E-03	4.22E-03	1.28E-04	1.13E-04	2.93E-03	1.48E-02
4.28E-04	6.93E-03	4.17E-03	1.27E-04	2.89E-03	2.89E-03	1.74E-02	4.28E-04	6.93E-03	4.17E-03	1.27E-04	1.12E-04	2.89E-03	1.47E-02
4.28E-04	6.95E-03	4.20E-03	1.28E-04	2.90E-03	2.90E-03	1.75E-02	4.28E-04	6.95E-03	4.20E-03	1.28E-04	1.13E-04	2.90E-03	1.47E-02
4.25E-04	6.87E-03	4.17E-03	1.27E-04	2.87E-03	2.87E-03	1.73E-02	4.25E-04	6.87E-03	4.17E-03	1.27E-04	1.12E-04	2.87E-03	1.46E-02
4.23E-04	6.84E-03	4.16E-03	1.27E-04	2.86E-03	2.86E-03	1.73E-02	4.23E-04	6.84E-03	4.16E-03	1.27E-04	1.12E-04	2.86E-03	1.45E-02
4.20E-04	6.78E-03	4.15E-03	1.26E-04	2.85E-03	2.85E-03	1.72E-02	4.20E-04	6.78E-03	4.15E-03	1.26E-04	1.12E-04	2.85E-03	1.44E-02
4.20E-04	6.78E-03	4.15E-03	1.26E-04	2.84E-03	2.84E-03	1.72E-02	4.20E-04	6.78E-03	4.15E-03	1.26E-04	1.12E-04	2.84E-03	1.44E-02
4.18E-04	6.74E-03	4.14E-03	1.26E-04	2.83E-03	2.83E-03	1.71E-02	4.18E-04	6.74E-03	4.14E-03	1.26E-04	1.12E-04	2.83E-03	1.44E-02
4.13E-04	6.64E-03	4.10E-03	1.25E-04	2.80E-03	2.80E-03	1.69E-02	4.13E-04	6.64E-03	4.10E-03	1.25E-04	1.12E-04	2.80E-03	1.42E-02
4.11E-04	6.58E-03	4.08E-03	1.24E-04	2.78E-03	2.78E-03	1.68E-02	4.11E-04	6.58E-03	4.08E-03	1.24E-04	1.11E-04	2.78E-03	1.41E-02
4.09E-04	6.54E-03	4.04E-03	1.23E-04	2.75E-03	2.75E-03	1.66E-02	4.09E-04	6.54E-03	4.04E-03	1.23E-04	1.10E-04	2.75E-03	1.40E-02
4.06E-04	6.45E-03	4.00E-03	1.22E-04	2.72E-03	2.72E-03	1.64E-02	4.06E-04	6.45E-03	4.00E-03	1.22E-04	1.09E-04	2.72E-03	1.38E-02
4.04E-04	6.43E-03	3.99E-03	1.22E-04	2.71E-03	2.71E-03	1.64E-02	4.04E-04	6.43E-03	3.99E-03	1.22E-04	1.09E-04	2.71E-03	1.38E-02
5.37E-04	9.76E-03	5.47E-03	1.60E-04	3.93E-03	3.93E-03	2.38E-02	5.37E-04	9.76E-03	5.47E-03	1.60E-04	1.38E-04	3.93E-03	2.00E-02

5.34E-04	9.69E-03	5.45E-03	1.59E-04	3.90E-03	3.90E-03	2.36E-02	5.34E-04	9.69E-03	5.45E-03	1.59E-04	1.37E-04	3.90E-03	1.99E-02
5.28E-04	9.53E-03	5.38E-03	1.58E-04	3.84E-03	3.84E-03	2.33E-02	5.28E-04	9.53E-03	5.38E-03	1.58E-04	1.36E-04	3.84E-03	1.96E-02
5.21E-04	9.36E-03	5.31E-03	1.56E-04	3.78E-03	3.78E-03	2.29E-02	5.21E-04	9.36E-03	5.31E-03	1.56E-04	1.35E-04	3.78E-03	1.93E-02
5.14E-04	9.16E-03	5.21E-03	1.54E-04	3.70E-03	3.70E-03	2.24E-02	5.14E-04	9.16E-03	5.21E-03	1.54E-04	1.33E-04	3.70E-03	1.89E-02
5.08E-04	9.03E-03	5.16E-03	1.52E-04	3.65E-03	3.65E-03	2.22E-02	5.08E-04	9.03E-03	5.16E-03	1.52E-04	1.32E-04	3.65E-03	1.86E-02
5.01E-04	8.83E-03	5.06E-03	1.50E-04	3.58E-03	3.58E-03	2.17E-02	5.01E-04	8.83E-03	5.06E-03	1.50E-04	1.30E-04	3.58E-03	1.82E-02
4.95E-04	8.69E-03	5.00E-03	1.48E-04	3.53E-03	3.53E-03	2.14E-02	4.95E-04	8.69E-03	5.00E-03	1.48E-04	1.29E-04	3.53E-03	1.80E-02
4.91E-04	8.58E-03	4.95E-03	1.47E-04	3.49E-03	3.49E-03	2.11E-02	4.91E-04	8.58E-03	4.95E-03	1.47E-04	1.28E-04	3.49E-03	1.78E-02
4.83E-04	8.36E-03	4.84E-03	1.44E-04	3.40E-03	3.40E-03	2.06E-02	4.83E-04	8.36E-03	4.84E-03	1.44E-04	1.26E-04	3.40E-03	1.74E-02
4.76E-04	8.18E-03	4.75E-03	1.42E-04	3.33E-03	3.33E-03	2.02E-02	4.76E-04	8.18E-03	4.75E-03	1.42E-04	1.24E-04	3.33E-03	1.70E-02
4.71E-04	8.05E-03	4.69E-03	1.40E-04	3.28E-03	3.28E-03	1.99E-02	4.71E-04	8.05E-03	4.69E-03	1.40E-04	1.23E-04	3.28E-03	1.68E-02
4.63E-04	7.84E-03	4.57E-03	1.37E-04	3.20E-03	3.20E-03	1.94E-02	4.63E-04	7.84E-03	4.57E-03	1.37E-04	1.20E-04	3.20E-03	1.63E-02
4.52E-04	7.54E-03	4.42E-03	1.33E-04	3.09E-03	3.09E-03	1.87E-02	4.52E-04	7.54E-03	4.42E-03	1.33E-04	1.17E-04	3.09E-03	1.58E-02
4.43E-04	7.32E-03	4.27E-03	1.29E-04	2.99E-03	2.99E-03	1.81E-02	4.43E-04	7.32E-03	4.27E-03	1.29E-04	1.13E-04	2.99E-03	1.53E-02
4.41E-04	7.28E-03	4.26E-03	1.29E-04	2.97E-03	2.97E-03	1.81E-02	4.41E-04	7.28E-03	4.26E-03	1.29E-04	1.13E-04	2.97E-03	1.52E-02
4.38E-04	7.21E-03	4.23E-03	1.28E-04	2.95E-03	2.95E-03	1.79E-02	4.38E-04	7.21E-03	4.23E-03	1.28E-04	1.13E-04	2.95E-03	1.51E-02
4.38E-04	7.23E-03	4.26E-03	1.29E-04	2.96E-03	2.96E-03	1.80E-02	4.38E-04	7.23E-03	4.26E-03	1.29E-04	1.14E-04	2.96E-03	1.51E-02
4.35E-04	7.17E-03	4.24E-03	1.28E-04	2.94E-03	2.94E-03	1.79E-02	4.35E-04	7.17E-03	4.24E-03	1.28E-04	1.13E-04	2.94E-03	1.50E-02
4.33E-04	7.11E-03	4.22E-03	1.28E-04	2.92E-03	2.92E-03	1.77E-02	4.33E-04	7.11E-03	4.22E-03	1.28E-04	1.13E-04	2.92E-03	1.49E-02
4.30E-04	7.07E-03	4.21E-03	1.27E-04	2.90E-03	2.90E-03	1.76E-02	4.30E-04	7.07E-03	4.21E-03	1.27E-04	1.13E-04	2.90E-03	1.48E-02
4.28E-04	7.01E-03	4.19E-03	1.27E-04	2.89E-03	2.89E-03	1.75E-02	4.28E-04	7.01E-03	4.19E-03	1.27E-04	1.12E-04	2.89E-03	1.48E-02
4.28E-04	7.02E-03	4.21E-03	1.27E-04	2.89E-03	2.89E-03	1.76E-02	4.28E-04	7.02E-03	4.21E-03	1.27E-04	1.13E-04	2.89E-03	1.48E-02
4.25E-04	6.98E-03	4.20E-03	1.27E-04	2.88E-03	2.88E-03	1.75E-02	4.25E-04	6.98E-03	4.20E-03	1.27E-04	1.13E-04	2.88E-03	1.47E-02
4.22E-04	6.87E-03	4.14E-03	1.25E-04	2.84E-03	2.84E-03	1.72E-02	4.22E-04	6.87E-03	4.14E-03	1.25E-04	1.12E-04	2.84E-03	1.45E-02
4.19E-04	6.79E-03	4.11E-03	1.24E-04	2.81E-03	2.81E-03	1.71E-02	4.19E-04	6.79E-03	4.11E-03	1.24E-04	1.11E-04	2.81E-03	1.44E-02
4.15E-04	6.73E-03	4.08E-03	1.24E-04	2.78E-03	2.78E-03	1.69E-02	4.15E-04	6.73E-03	4.08E-03	1.24E-04	1.10E-04	2.78E-03	1.42E-02
4.13E-04	6.66E-03	4.05E-03	1.23E-04	2.76E-03	2.76E-03	1.68E-02	4.13E-04	6.66E-03	4.05E-03	1.23E-04	1.10E-04	2.76E-03	1.41E-02
5.53E-04	1.03E-02	5.51E-03	1.60E-04	4.02E-03	4.02E-03	2.45E-02	5.53E-04	1.03E-02	5.51E-03	1.60E-04	1.38E-04	4.02E-03	2.06E-02
5.48E-04	1.01E-02	5.47E-03	1.59E-04	3.97E-03	3.97E-03	2.43E-02	5.48E-04	1.01E-02	5.47E-03	1.59E-04	1.37E-04	3.97E-03	2.04E-02
5.42E-04	9.99E-03	5.41E-03	1.58E-04	3.92E-03	3.92E-03	2.39E-02	5.42E-04	9.99E-03	5.41E-03	1.58E-04	1.36E-04	3.92E-03	2.01E-02
5.34E-04	9.77E-03	5.32E-03	1.56E-04	3.84E-03	3.84E-03	2.35E-02	5.34E-04	9.77E-03	5.32E-03	1.56E-04	1.34E-04	3.84E-03	1.98E-02
5.28E-04	9.62E-03	5.27E-03	1.54E-04	3.79E-03	3.79E-03	2.31E-02	5.28E-04	9.62E-03	5.27E-03	1.54E-04	1.33E-04	3.79E-03	1.95E-02
5.20E-04	9.39E-03	5.17E-03	1.52E-04	3.71E-03	3.71E-03	2.26E-02	5.20E-04	9.39E-03	5.17E-03	1.52E-04	1.32E-04	3.71E-03	1.91E-02
5.13E-04	9.21E-03	5.09E-03	1.50E-04	3.64E-03	3.64E-03	2.23E-02	5.13E-04	9.21E-03	5.09E-03	1.50E-04	1.30E-04	3.64E-03	1.87E-02
5.07E-04	9.06E-03	5.03E-03	1.49E-04	3.59E-03	3.59E-03	2.19E-02	5.07E-04	9.06E-03	5.03E-03	1.49E-04	1.29E-04	3.59E-03	1.85E-02
5.01E-04	8.92E-03	4.97E-03	1.47E-04	3.54E-03	3.54E-03	2.16E-02	5.01E-04	8.92E-03	4.97E-03	1.47E-04	1.28E-04	3.54E-03	1.82E-02
4.93E-04	8.70E-03	4.87E-03	1.45E-04	3.46E-03	3.46E-03	2.11E-02	4.93E-04	8.70E-03	4.87E-03	1.45E-04	1.26E-04	3.46E-03	1.78E-02
4.87E-04	8.52E-03	4.79E-03	1.42E-04	3.39E-03	3.39E-03	2.07E-02	4.87E-04	8.52E-03	4.79E-03	1.42E-04	1.24E-04	3.39E-03	1.75E-02
4.78E-04	8.29E-03	4.69E-03	1.40E-04	3.31E-03	3.31E-03	2.02E-02	4.78E-04	8.29E-03	4.69E-03	1.40E-04	1.22E-04	3.31E-03	1.70E-02
4.71E-04	8.07E-03	4.57E-03	1.37E-04	3.22E-03	3.22E-03	1.97E-02	4.71E-04	8.07E-03	4.57E-03	1.37E-04	1.20E-04	3.22E-03	1.66E-02
4.61E-04	7.82E-03	4.43E-03	1.33E-04	3.13E-03	3.13E-03	1.91E-02	4.61E-04	7.82E-03	4.43E-03	1.33E-04	1.17E-04	3.13E-03	1.61E-02
4.50E-04	7.51E-03	4.26E-03	1.29E-04	3.01E-03	3.01E-03	1.84E-02	4.50E-04	7.51E-03	4.26E-03	1.29E-04	1.13E-04	3.01E-03	1.55E-02
4.52E-04	7.58E-03	4.32E-03	1.30E-04	3.04E-03	3.04E-03	1.86E-02	4.52E-04	7.58E-03	4.32E-03	1.30E-04	1.14E-04	3.04E-03	1.56E-02
4.50E-04	7.55E-03	4.32E-03	1.30E-04	3.03E-03	3.03E-03	1.85E-02	4.50E-04	7.55E-03	4.32E-03	1.30E-04	1.14E-04	3.03E-03	1.56E-02
4.48E-04	7.50E-03	4.31E-03	1.30E-04	3.01E-03	3.01E-03	1.84E-02	4.48E-04	7.50E-03	4.31E-03	1.30E-04	1.14E-04	3.01E-03	1.55E-02
4.44E-04	7.41E-03	4.27E-03	1.29E-04	2.98E-03	2.98E-03	1.82E-02	4.44E-04	7.41E-03	4.27E-03	1.29E-04	1.13E-04	2.98E-03	1.54E-02
4.43E-04	7.38E-03	4.27E-03	1.29E-04	2.98E-03	2.98E-03	1.82E-02	4.43E-04	7.38E-03	4.27E-03	1.29E-04	1.13E-04	2.98E-03	1.53E-02
4.41E-04	7.33E-03	4.26E-03	1.28E-04	2.96E-03	2.96E-03	1.81E-02	4.41E-04	7.33E-03	4.26E-03	1.28E-04	1.13E-04	2.96E-03	1.52E-02
4.38E-04	7.29E-03	4.25E-03	1.28E-04	2.95E-03	2.95E-03	1.80E-02	4.38E-04	7.29E-03	4.25E-03	1.28E-04	1.13E-04	2.95E-03	1.52E-02
4.37E-04	7.29E-03	4.27E-03	1.28E-04	2.95E-03	2.95E-03	1.80E-02	4.37E-04	7.29E-03	4.27E-03	1.28E-04	1.14E-04	2.95E-03	1.52E-02
4.35E-04	7.23E-03	4.24E-03	1.28E-04	2.93E-03	2.93E-03	1.79E-02	4.35E-04	7.23E-03	4.24E-03	1.28E-04	1.13E-04	2.93E-03	1.51E-02
4.32E-04	7.16E-03	4.22E-03	1.27E-04	2.91E-03	2.91E-03	1.78E-02	4.32E-04	7.16E-03	4.22E-03	1.27E-04	1.13E-04	2.91E-03	1.50E-02
4.28E-04	7.05E-03	4.16E-03	1.25E-04	2.86E-03	2.86E-03	1.75E-02	4.28E-04	7.05E-03	4.16E-03	1.25E-04	1.12E-04	2.86E-03	1.47E-02
4.24E-04	6.96E-03	4.12E-03	1.24E-04	2.83E-03	2.83E-03	1.73E-02	4.24E-04	6.96E-03	4.12E-03	1.24E-04	1.11E-04	2.83E-03	1.46E-02

4.22E-04	6.89E-03	4.10E-03	1.24E-04	2.81E-03	2.81E-03	1.72E-02	4.22E-04	6.89E-03	4.10E-03	1.24E-04	1.10E-04	2.81E-03	1.45E-02
5.68E-04	1.08E-02	5.54E-03	1.60E-04	4.10E-03	4.10E-03	2.53E-02	5.68E-04	1.08E-02	5.54E-03	1.60E-04	1.37E-04	4.10E-03	2.13E-02
5.62E-04	1.06E-02	5.48E-03	1.58E-04	4.04E-03	4.04E-03	2.49E-02	5.62E-04	1.06E-02	5.48E-03	1.58E-04	1.36E-04	4.04E-03	2.10E-02
5.53E-04	1.04E-02	5.39E-03	1.56E-04	3.96E-03	3.96E-03	2.44E-02	5.53E-04	1.04E-02	5.39E-03	1.56E-04	1.35E-04	3.96E-03	2.06E-02
5.47E-04	1.02E-02	5.34E-03	1.55E-04	3.91E-03	3.91E-03	2.40E-02	5.47E-04	1.02E-02	5.34E-03	1.55E-04	1.34E-04	3.91E-03	2.03E-02
5.37E-04	9.94E-03	5.24E-03	1.53E-04	3.82E-03	3.82E-03	2.35E-02	5.37E-04	9.94E-03	5.24E-03	1.53E-04	1.32E-04	3.82E-03	1.98E-02
5.31E-04	9.77E-03	5.18E-03	1.51E-04	3.77E-03	3.77E-03	2.32E-02	5.31E-04	9.77E-03	5.18E-03	1.51E-04	1.31E-04	3.77E-03	1.95E-02
5.24E-04	9.56E-03	5.10E-03	1.49E-04	3.70E-03	3.70E-03	2.27E-02	5.24E-04	9.56E-03	5.10E-03	1.49E-04	1.30E-04	3.70E-03	1.92E-02
5.19E-04	9.44E-03	5.06E-03	1.48E-04	3.65E-03	3.65E-03	2.25E-02	5.19E-04	9.44E-03	5.06E-03	1.48E-04	1.29E-04	3.65E-03	1.89E-02
5.13E-04	9.28E-03	5.00E-03	1.47E-04	3.60E-03	3.60E-03	2.21E-02	5.13E-04	9.28E-03	5.00E-03	1.47E-04	1.28E-04	3.60E-03	1.87E-02
5.00E-04	8.90E-03	4.85E-03	1.43E-04	3.47E-03	3.47E-03	2.13E-02	5.00E-04	8.90E-03	4.85E-03	1.43E-04	1.25E-04	3.47E-03	1.80E-02
4.98E-04	8.86E-03	4.82E-03	1.43E-04	3.45E-03	3.45E-03	2.12E-02	4.98E-04	8.86E-03	4.82E-03	1.43E-04	1.24E-04	3.45E-03	1.79E-02
4.86E-04	8.51E-03	4.68E-03	1.39E-04	3.34E-03	3.34E-03	2.05E-02	4.86E-04	8.51E-03	4.68E-03	1.39E-04	1.22E-04	3.34E-03	1.73E-02
4.79E-04	8.29E-03	4.56E-03	1.36E-04	3.25E-03	3.25E-03	2.00E-02	4.79E-04	8.29E-03	4.56E-03	1.36E-04	1.19E-04	3.25E-03	1.68E-02
4.73E-04	8.15E-03	4.49E-03	1.34E-04	3.20E-03	3.20E-03	1.96E-02	4.73E-04	8.15E-03	4.49E-03	1.34E-04	1.17E-04	3.20E-03	1.66E-02
4.67E-04	7.98E-03	4.41E-03	1.32E-04	3.14E-03	3.14E-03	1.93E-02	4.67E-04	7.98E-03	4.41E-03	1.32E-04	1.16E-04	3.14E-03	1.62E-02
4.65E-04	7.96E-03	4.42E-03	1.32E-04	3.13E-03	3.13E-03	1.92E-02	4.65E-04	7.96E-03	4.42E-03	1.32E-04	1.16E-04	3.13E-03	1.62E-02
4.62E-04	7.87E-03	4.39E-03	1.32E-04	3.10E-03	3.10E-03	1.91E-02	4.62E-04	7.87E-03	4.39E-03	1.32E-04	1.15E-04	3.10E-03	1.61E-02
4.59E-04	7.82E-03	4.38E-03	1.31E-04	3.09E-03	3.09E-03	1.90E-02	4.59E-04	7.82E-03	4.38E-03	1.31E-04	1.15E-04	3.09E-03	1.60E-02
4.55E-04	7.73E-03	4.34E-03	1.30E-04	3.05E-03	3.05E-03	1.88E-02	4.55E-04	7.73E-03	4.34E-03	1.30E-04	1.14E-04	3.05E-03	1.58E-02
4.52E-04	7.65E-03	4.33E-03	1.30E-04	3.04E-03	3.04E-03	1.86E-02	4.52E-04	7.65E-03	4.33E-03	1.30E-04	1.14E-04	3.04E-03	1.57E-02
4.51E-04	7.65E-03	4.33E-03	1.30E-04	3.03E-03	3.03E-03	1.86E-02	4.51E-04	7.65E-03	4.33E-03	1.30E-04	1.14E-04	3.03E-03	1.57E-02
4.49E-04	7.58E-03	4.31E-03	1.29E-04	3.01E-03	3.01E-03	1.85E-02	4.49E-04	7.58E-03	4.31E-03	1.29E-04	1.14E-04	3.01E-03	1.56E-02
4.48E-04	7.57E-03	4.32E-03	1.29E-04	3.01E-03	3.01E-03	1.85E-02	4.48E-04	7.57E-03	4.32E-03	1.29E-04	1.14E-04	3.01E-03	1.56E-02
4.45E-04	7.50E-03	4.30E-03	1.29E-04	2.99E-03	2.99E-03	1.84E-02	4.45E-04	7.50E-03	4.30E-03	1.29E-04	1.14E-04	2.99E-03	1.55E-02
4.41E-04	7.38E-03	4.25E-03	1.27E-04	2.94E-03	2.94E-03	1.81E-02	4.41E-04	7.38E-03	4.25E-03	1.27E-04	1.13E-04	2.94E-03	1.53E-02
4.37E-04	7.30E-03	4.21E-03	1.26E-04	2.92E-03	2.92E-03	1.79E-02	4.37E-04	7.30E-03	4.21E-03	1.26E-04	1.12E-04	2.92E-03	1.51E-02
4.33E-04	7.19E-03	4.16E-03	1.25E-04	2.88E-03	2.88E-03	1.77E-02	4.33E-04	7.19E-03	4.16E-03	1.25E-04	1.11E-04	2.88E-03	1.49E-02
4.30E-04	7.11E-03	4.13E-03	1.24E-04	2.85E-03	2.85E-03	1.75E-02	4.30E-04	7.11E-03	4.13E-03	1.24E-04	1.10E-04	2.85E-03	1.48E-02
5.84E-04	1.13E-02	5.55E-03	1.59E-04	4.18E-03	4.18E-03	2.60E-02	5.84E-04	1.13E-02	5.55E-03	1.59E-04	1.36E-04	4.18E-03	2.19E-02
5.76E-04	1.11E-02	5.48E-03	1.57E-04	4.12E-03	4.12E-03	2.55E-02	5.76E-04	1.11E-02	5.48E-03	1.57E-04	1.35E-04	4.12E-03	2.16E-02
5.67E-04	1.08E-02	5.40E-03	1.56E-04	4.03E-03	4.03E-03	2.50E-02	5.67E-04	1.08E-02	5.40E-03	1.56E-04	1.34E-04	4.03E-03	2.11E-02
5.58E-04	1.06E-02	5.32E-03	1.54E-04	3.96E-03	3.96E-03	2.45E-02	5.58E-04	1.06E-02	5.32E-03	1.54E-04	1.32E-04	3.96E-03	2.07E-02
5.50E-04	1.04E-02	5.25E-03	1.52E-04	3.89E-03	3.89E-03	2.41E-02	5.50E-04	1.04E-02	5.25E-03	1.52E-04	1.31E-04	3.89E-03	2.03E-02
5.44E-04	1.02E-02	5.19E-03	1.51E-04	3.83E-03	3.83E-03	2.37E-02	5.44E-04	1.02E-02	5.19E-03	1.51E-04	1.30E-04	3.83E-03	2.00E-02
5.37E-04	9.98E-03	5.13E-03	1.49E-04	3.77E-03	3.77E-03	2.33E-02	5.37E-04	9.98E-03	5.13E-03	1.49E-04	1.29E-04	3.77E-03	1.97E-02
5.30E-04	9.80E-03	5.07E-03	1.48E-04	3.71E-03	3.71E-03	2.30E-02	5.30E-04	9.80E-03	5.07E-03	1.48E-04	1.28E-04	3.71E-03	1.94E-02
5.23E-04	9.58E-03	4.99E-03	1.46E-04	3.64E-03	3.64E-03	2.25E-02	5.23E-04	9.58E-03	4.99E-03	1.46E-04	1.27E-04	3.64E-03	1.90E-02
5.16E-04	9.39E-03	4.92E-03	1.44E-04	3.58E-03	3.58E-03	2.21E-02	5.16E-04	9.39E-03	4.92E-03	1.44E-04	1.25E-04	3.58E-03	1.87E-02
5.07E-04	9.14E-03	4.82E-03	1.42E-04	3.49E-03	3.49E-03	2.16E-02	5.07E-04	9.14E-03	4.82E-03	1.42E-04	1.24E-04	3.49E-03	1.82E-02
4.97E-04	8.81E-03	4.68E-03	1.39E-04	3.38E-03	3.38E-03	2.09E-02	4.97E-04	8.81E-03	4.68E-03	1.39E-04	1.21E-04	3.38E-03	1.76E-02
4.90E-04	8.64E-03	4.61E-03	1.37E-04	3.32E-03	3.32E-03	2.05E-02	4.90E-04	8.64E-03	4.61E-03	1.37E-04	1.19E-04	3.32E-03	1.73E-02
4.79E-04	8.33E-03	4.47E-03	1.33E-04	3.21E-03	3.21E-03	1.98E-02	4.79E-04	8.33E-03	4.47E-03	1.33E-04	1.17E-04	3.21E-03	1.67E-02
4.74E-04	8.20E-03	4.42E-03	1.32E-04	3.16E-03	3.16E-03	1.96E-02	4.74E-04	8.20E-03	4.42E-03	1.32E-04	1.16E-04	3.16E-03	1.65E-02
4.76E-04	8.25E-03	4.48E-03	1.33E-04	3.20E-03	3.20E-03	1.97E-02	4.76E-04	8.25E-03	4.48E-03	1.33E-04	1.17E-04	3.20E-03	1.67E-02
4.70E-04	8.11E-03	4.41E-03	1.32E-04	3.14E-03	3.14E-03	1.94E-02	4.70E-04	8.11E-03	4.41E-03	1.32E-04	1.15E-04	3.14E-03	1.64E-02
4.68E-04	8.07E-03	4.40E-03	1.31E-04	3.13E-03	3.13E-03	1.93E-02	4.68E-04	8.07E-03	4.40E-03	1.31E-04	1.15E-04	3.13E-03	1.63E-02
4.67E-04	8.06E-03	4.41E-03	1.31E-04	3.13E-03	3.13E-03	1.93E-02	4.67E-04	8.06E-03	4.41E-03	1.31E-04	1.15E-04	3.13E-03	1.63E-02
4.65E-04	8.02E-03	4.41E-03	1.31E-04	3.12E-03	3.12E-03	1.93E-02	4.65E-04	8.02E-03	4.41E-03	1.31E-04	1.15E-04	3.12E-03	1.63E-02
4.61E-04	7.90E-03	4.36E-03	1.30E-04	3.08E-03	3.08E-03	1.90E-02	4.61E-04	7.90E-03	4.36E-03	1.30E-04	1.14E-04	3.08E-03	1.60E-02
4.59E-04	7.87E-03	4.36E-03	1.30E-04	3.07E-03	3.07E-03	1.90E-02	4.59E-04	7.87E-03	4.36E-03	1.30E-04	1.14E-04	3.07E-03	1.60E-02
4.57E-04	7.82E-03	4.35E-03	1.29E-04	3.06E-03	3.06E-03	1.89E-02	4.57E-04	7.82E-03	4.35E-03	1.29E-04	1.14E-04	3.06E-03	1.59E-02
4.55E-04	7.77E-03	4.34E-03	1.29E-04	3.04E-03	3.04E-03	1.88E-02	4.55E-04	7.77E-03	4.34E-03	1.29E-04	1.14E-04	3.04E-03	1.58E-02
4.51E-04	7.66E-03	4.30E-03	1.28E-04	3.01E-03	3.01E-03	1.85E-02	4.51E-04	7.66E-03	4.30E-03	1.28E-04	1.13E-04	3.01E-03	1.57E-02

4.45E-04	7.50E-03	4.23E-03	1.26E-04	2.95E-03	2.95E-03	1.82E-02	4.45E-04	7.50E-03	4.23E-03	1.26E-04	1.12E-04	2.95E-03	1.54E-02
4.42E-04	7.42E-03	4.20E-03	1.25E-04	2.92E-03	2.92E-03	1.80E-02	4.42E-04	7.42E-03	4.20E-03	1.25E-04	1.11E-04	2.92E-03	1.52E-02
4.38E-04	7.33E-03	4.17E-03	1.25E-04	2.90E-03	2.90E-03	1.79E-02	4.38E-04	7.33E-03	4.17E-03	1.25E-04	1.10E-04	2.90E-03	1.51E-02
5.97E-04	1.18E-02	5.53E-03	1.58E-04	4.24E-03	4.24E-03	2.66E-02	5.97E-04	1.18E-02	5.53E-03	1.58E-04	1.34E-04	4.24E-03	2.24E-02
5.90E-04	1.16E-02	5.47E-03	1.56E-04	4.17E-03	4.17E-03	2.61E-02	5.90E-04	1.16E-02	5.47E-03	1.56E-04	1.34E-04	4.17E-03	2.21E-02
5.80E-04	1.12E-02	5.38E-03	1.54E-04	4.08E-03	4.08E-03	2.55E-02	5.80E-04	1.12E-02	5.38E-03	1.54E-04	1.32E-04	4.08E-03	2.16E-02
5.71E-04	1.10E-02	5.31E-03	1.53E-04	4.01E-03	4.01E-03	2.50E-02	5.71E-04	1.10E-02	5.31E-03	1.53E-04	1.31E-04	4.01E-03	2.12E-02
5.63E-04	1.08E-02	5.25E-03	1.51E-04	3.94E-03	3.94E-03	2.46E-02	5.63E-04	1.08E-02	5.25E-03	1.51E-04	1.30E-04	3.94E-03	2.08E-02
5.57E-04	1.06E-02	5.20E-03	1.50E-04	3.89E-03	3.89E-03	2.43E-02	5.57E-04	1.06E-02	5.20E-03	1.50E-04	1.29E-04	3.89E-03	2.05E-02
5.50E-04	1.04E-02	5.14E-03	1.49E-04	3.83E-03	3.83E-03	2.39E-02	5.50E-04	1.04E-02	5.14E-03	1.49E-04	1.28E-04	3.83E-03	2.02E-02
5.43E-04	1.02E-02	5.08E-03	1.47E-04	3.77E-03	3.77E-03	2.35E-02	5.43E-04	1.02E-02	5.08E-03	1.47E-04	1.27E-04	3.77E-03	1.98E-02
5.34E-04	9.93E-03	5.00E-03	1.45E-04	3.69E-03	3.69E-03	2.30E-02	5.34E-04	9.93E-03	5.00E-03	1.45E-04	1.26E-04	3.69E-03	1.94E-02
5.23E-04	9.59E-03	4.89E-03	1.43E-04	3.59E-03	3.59E-03	2.23E-02	5.23E-04	9.59E-03	4.89E-03	1.43E-04	1.24E-04	3.59E-03	1.89E-02
5.12E-04	9.27E-03	4.75E-03	1.40E-04	3.48E-03	3.48E-03	2.16E-02	5.12E-04	9.27E-03	4.75E-03	1.40E-04	1.22E-04	3.48E-03	1.83E-02
5.07E-04	9.11E-03	4.69E-03	1.38E-04	3.42E-03	3.42E-03	2.13E-02	5.07E-04	9.11E-03	4.69E-03	1.38E-04	1.21E-04	3.42E-03	1.80E-02
5.02E-04	9.00E-03	4.66E-03	1.37E-04	3.39E-03	3.39E-03	2.11E-02	5.02E-04	9.00E-03	4.66E-03	1.37E-04	1.20E-04	3.39E-03	1.78E-02
4.96E-04	8.82E-03	4.59E-03	1.36E-04	3.33E-03	3.33E-03	2.07E-02	4.96E-04	8.82E-03	4.59E-03	1.36E-04	1.19E-04	3.33E-03	1.75E-02
4.91E-04	8.69E-03	4.55E-03	1.34E-04	3.29E-03	3.29E-03	2.04E-02	4.91E-04	8.69E-03	4.55E-03	1.34E-04	1.18E-04	3.29E-03	1.73E-02
4.91E-04	8.71E-03	4.58E-03	1.35E-04	3.30E-03	3.30E-03	2.05E-02	4.91E-04	8.71E-03	4.58E-03	1.35E-04	1.18E-04	3.30E-03	1.73E-02
4.86E-04	8.57E-03	4.52E-03	1.34E-04	3.26E-03	3.26E-03	2.02E-02	4.86E-04	8.57E-03	4.52E-03	1.34E-04	1.17E-04	3.26E-03	1.71E-02
4.83E-04	8.49E-03	4.50E-03	1.33E-04	3.23E-03	3.23E-03	2.01E-02	4.83E-04	8.49E-03	4.50E-03	1.33E-04	1.17E-04	3.23E-03	1.70E-02
4.79E-04	8.40E-03	4.47E-03	1.32E-04	3.20E-03	3.20E-03	1.99E-02	4.79E-04	8.40E-03	4.47E-03	1.32E-04	1.16E-04	3.20E-03	1.68E-02
4.77E-04	8.35E-03	4.47E-03	1.32E-04	3.19E-03	3.19E-03	1.98E-02	4.77E-04	8.35E-03	4.47E-03	1.32E-04	1.16E-04	3.19E-03	1.67E-02
4.73E-04	8.23E-03	4.43E-03	1.31E-04	3.15E-03	3.15E-03	1.96E-02	4.73E-04	8.23E-03	4.43E-03	1.31E-04	1.15E-04	3.15E-03	1.65E-02
4.69E-04	8.15E-03	4.40E-03	1.30E-04	3.13E-03	3.13E-03	1.94E-02	4.69E-04	8.15E-03	4.40E-03	1.30E-04	1.15E-04	3.13E-03	1.64E-02
4.67E-04	8.10E-03	4.39E-03	1.30E-04	3.11E-03	3.11E-03	1.93E-02	4.67E-04	8.10E-03	4.39E-03	1.30E-04	1.14E-04	3.11E-03	1.63E-02
4.66E-04	8.06E-03	4.39E-03	1.30E-04	3.11E-03	3.11E-03	1.93E-02	4.66E-04	8.06E-03	4.39E-03	1.30E-04	1.14E-04	3.11E-03	1.63E-02
4.60E-04	7.92E-03	4.33E-03	1.28E-04	3.06E-03	3.06E-03	1.89E-02	4.60E-04	7.92E-03	4.33E-03	1.28E-04	1.13E-04	3.06E-03	1.60E-02
4.56E-04	7.80E-03	4.29E-03	1.27E-04	3.02E-03	3.02E-03	1.87E-02	4.56E-04	7.80E-03	4.29E-03	1.27E-04	1.12E-04	3.02E-03	1.58E-02
4.53E-04	7.71E-03	4.26E-03	1.26E-04	2.99E-03	2.99E-03	1.85E-02	4.53E-04	7.71E-03	4.26E-03	1.26E-04	1.12E-04	2.99E-03	1.57E-02
4.48E-04	7.57E-03	4.20E-03	1.25E-04	2.94E-03	2.94E-03	1.82E-02	4.48E-04	7.57E-03	4.20E-03	1.25E-04	1.11E-04	2.94E-03	1.54E-02
6.13E-04	1.23E-02	5.52E-03	1.56E-04	4.32E-03	4.32E-03	2.73E-02	6.13E-04	1.23E-02	5.52E-03	1.56E-04	1.33E-04	4.32E-03	2.31E-02
6.02E-04	1.20E-02	5.44E-03	1.55E-04	4.22E-03	4.22E-03	2.67E-02	6.02E-04	1.20E-02	5.44E-03	1.55E-04	1.32E-04	4.22E-03	2.26E-02
5.92E-04	1.17E-02	5.36E-03	1.53E-04	4.13E-03	4.13E-03	2.60E-02	5.92E-04	1.17E-02	5.36E-03	1.53E-04	1.31E-04	4.13E-03	2.20E-02
5.84E-04	1.14E-02	5.29E-03	1.51E-04	4.06E-03	4.06E-03	2.56E-02	5.84E-04	1.14E-02	5.29E-03	1.51E-04	1.30E-04	4.06E-03	2.16E-02
5.77E-04	1.12E-02	5.25E-03	1.50E-04	4.01E-03	4.01E-03	2.52E-02	5.77E-04	1.12E-02	5.25E-03	1.50E-04	1.29E-04	4.01E-03	2.14E-02
5.71E-04	1.10E-02	5.20E-03	1.49E-04	3.95E-03	3.95E-03	2.49E-02	5.71E-04	1.10E-02	5.20E-03	1.49E-04	1.29E-04	3.95E-03	2.10E-02
5.63E-04	1.08E-02	5.14E-03	1.48E-04	3.89E-03	3.89E-03	2.44E-02	5.63E-04	1.08E-02	5.14E-03	1.48E-04	1.28E-04	3.89E-03	2.06E-02
5.57E-04	1.06E-02	5.09E-03	1.47E-04	3.84E-03	3.84E-03	2.41E-02	5.57E-04	1.06E-02	5.09E-03	1.47E-04	1.27E-04	3.84E-03	2.04E-02
5.50E-04	1.04E-02	5.04E-03	1.45E-04	3.78E-03	3.78E-03	2.37E-02	5.50E-04	1.04E-02	5.04E-03	1.45E-04	1.26E-04	3.78E-03	2.00E-02
5.36E-04	1.00E-02	4.93E-03	1.43E-04	3.67E-03	3.67E-03	2.30E-02	5.36E-04	1.00E-02	4.93E-03	1.43E-04	1.24E-04	3.67E-03	1.94E-02
5.30E-04	9.81E-03	4.85E-03	1.41E-04	3.60E-03	3.60E-03	2.25E-02	5.30E-04	9.81E-03	4.85E-03	1.41E-04	1.23E-04	3.60E-03	1.90E-02
5.20E-04	9.51E-03	4.74E-03	1.39E-04	3.50E-03	3.50E-03	2.19E-02	5.20E-04	9.51E-03	4.74E-03	1.39E-04	1.21E-04	3.50E-03	1.85E-02
5.12E-04	9.28E-03	4.68E-03	1.37E-04	3.44E-03	3.44E-03	2.15E-02	5.12E-04	9.28E-03	4.68E-03	1.37E-04	1.20E-04	3.44E-03	1.82E-02
5.09E-04	9.19E-03	4.64E-03	1.36E-04	3.41E-03	3.41E-03	2.13E-02	5.09E-04	9.19E-03	4.64E-03	1.36E-04	1.19E-04	3.41E-03	1.80E-02
5.05E-04	9.10E-03	4.62E-03	1.35E-04	3.38E-03	3.38E-03	2.11E-02	5.05E-04	9.10E-03	4.62E-03	1.35E-04	1.18E-04	3.38E-03	1.79E-02
5.01E-04	8.99E-03	4.60E-03	1.35E-04	3.36E-03	3.36E-03	2.09E-02	5.01E-04	8.99E-03	4.60E-03	1.35E-04	1.18E-04	3.36E-03	1.77E-02
4.95E-04	8.83E-03	4.55E-03	1.34E-04	3.31E-03	3.31E-03	2.06E-02	4.95E-04	8.83E-03	4.55E-03	1.34E-04	1.17E-04	3.31E-03	1.74E-02
4.94E-04	8.80E-03	4.54E-03	1.33E-04	3.29E-03	3.29E-03	2.05E-02	4.94E-04	8.80E-03	4.54E-03	1.33E-04	1.17E-04	3.29E-03	1.74E-02
4.92E-04	8.75E-03	4.53E-03	1.33E-04	3.28E-03	3.28E-03	2.05E-02	4.92E-04	8.75E-03	4.53E-03	1.33E-04	1.17E-04	3.28E-03	1.73E-02
4.88E-04	8.65E-03	4.50E-03	1.32E-04	3.25E-03	3.25E-03	2.03E-02	4.88E-04	8.65E-03	4.50E-03	1.32E-04	1.16E-04	3.25E-03	1.71E-02
4.84E-04	8.55E-03	4.48E-03	1.32E-04	3.22E-03	3.22E-03	2.01E-02	4.84E-04	8.55E-03	4.48E-03	1.32E-04	1.15E-04	3.22E-03	1.70E-02
4.83E-04	8.52E-03	4.48E-03	1.31E-04	3.21E-03	3.21E-03	2.00E-02	4.83E-04	8.52E-03	4.48E-03	1.31E-04	1.15E-04	3.21E-03	1.69E-02
4.80E-04	8.44E-03	4.46E-03	1.31E-04	3.19E-03	3.19E-03	1.99E-02	4.80E-04	8.44E-03	4.46E-03	1.31E-04	1.15E-04	3.19E-03	1.68E-02

4.76E-04	8.33E-03	4.42E-03	1.30E-04	3.16E-03	3.16E-03	1.97E-02	4.76E-04	8.33E-03	4.42E-03	1.30E-04	1.14E-04	3.16E-03	1.66E-02
4.70E-04	8.18E-03	4.37E-03	1.29E-04	3.11E-03	3.11E-03	1.94E-02	4.70E-04	8.18E-03	4.37E-03	1.29E-04	1.13E-04	3.11E-03	1.64E-02
4.65E-04	8.01E-03	4.30E-03	1.27E-04	3.05E-03	3.05E-03	1.90E-02	4.65E-04	8.01E-03	4.30E-03	1.27E-04	1.12E-04	3.05E-03	1.61E-02
4.61E-04	7.91E-03	4.27E-03	1.26E-04	3.02E-03	3.02E-03	1.88E-02	4.61E-04	7.91E-03	4.27E-03	1.26E-04	1.11E-04	3.02E-03	1.59E-02
4.58E-04	7.82E-03	4.24E-03	1.25E-04	2.99E-03	2.99E-03	1.86E-02	4.58E-04	7.82E-03	4.24E-03	1.25E-04	1.11E-04	2.99E-03	1.57E-02
6.25E-04	1.28E-02	5.47E-03	1.55E-04	4.35E-03	4.35E-03	2.77E-02	6.25E-04	1.28E-02	5.47E-03	1.55E-04	1.31E-04	4.35E-03	2.35E-02
6.15E-04	1.24E-02	5.40E-03	1.53E-04	4.27E-03	4.27E-03	2.72E-02	6.15E-04	1.24E-02	5.40E-03	1.53E-04	1.30E-04	4.27E-03	2.30E-02
6.02E-04	1.20E-02	5.31E-03	1.51E-04	4.16E-03	4.16E-03	2.64E-02	6.02E-04	1.20E-02	5.31E-03	1.51E-04	1.29E-04	4.16E-03	2.24E-02
5.97E-04	1.18E-02	5.27E-03	1.50E-04	4.11E-03	4.11E-03	2.61E-02	5.97E-04	1.18E-02	5.27E-03	1.50E-04	1.29E-04	4.11E-03	2.21E-02
5.88E-04	1.16E-02	5.22E-03	1.49E-04	4.05E-03	4.05E-03	2.56E-02	5.88E-04	1.16E-02	5.22E-03	1.49E-04	1.28E-04	4.05E-03	2.17E-02
5.82E-04	1.14E-02	5.17E-03	1.48E-04	3.99E-03	3.99E-03	2.53E-02	5.82E-04	1.14E-02	5.17E-03	1.48E-04	1.27E-04	3.99E-03	2.14E-02
5.77E-04	1.12E-02	5.14E-03	1.47E-04	3.96E-03	3.96E-03	2.50E-02	5.77E-04	1.12E-02	5.14E-03	1.47E-04	1.27E-04	3.96E-03	2.12E-02
5.69E-04	1.10E-02	5.08E-03	1.45E-04	3.88E-03	3.88E-03	2.45E-02	5.69E-04	1.10E-02	5.08E-03	1.45E-04	1.26E-04	3.88E-03	2.08E-02
5.61E-04	1.07E-02	5.01E-03	1.44E-04	3.82E-03	3.82E-03	2.41E-02	5.61E-04	1.07E-02	5.01E-03	1.44E-04	1.25E-04	3.82E-03	2.04E-02
5.54E-04	1.05E-02	4.96E-03	1.43E-04	3.76E-03	3.76E-03	2.37E-02	5.54E-04	1.05E-02	4.96E-03	1.43E-04	1.24E-04	3.76E-03	2.01E-02
5.44E-04	1.02E-02	4.87E-03	1.41E-04	3.67E-03	3.67E-03	2.31E-02	5.44E-04	1.02E-02	4.87E-03	1.41E-04	1.22E-04	3.67E-03	1.96E-02
5.36E-04	9.98E-03	4.80E-03	1.39E-04	3.60E-03	3.60E-03	2.27E-02	5.36E-04	9.98E-03	4.80E-03	1.39E-04	1.21E-04	3.60E-03	1.92E-02
5.29E-04	9.79E-03	4.75E-03	1.38E-04	3.55E-03	3.55E-03	2.23E-02	5.29E-04	9.79E-03	4.75E-03	1.38E-04	1.20E-04	3.55E-03	1.89E-02
5.25E-04	9.67E-03	4.72E-03	1.37E-04	3.51E-03	3.51E-03	2.21E-02	5.25E-04	9.67E-03	4.72E-03	1.37E-04	1.20E-04	3.51E-03	1.87E-02
5.20E-04	9.52E-03	4.68E-03	1.36E-04	3.47E-03	3.47E-03	2.18E-02	5.20E-04	9.52E-03	4.68E-03	1.36E-04	1.19E-04	3.47E-03	1.84E-02
5.15E-04	9.38E-03	4.64E-03	1.35E-04	3.43E-03	3.43E-03	2.15E-02	5.15E-04	9.38E-03	4.64E-03	1.35E-04	1.18E-04	3.43E-03	1.82E-02
5.10E-04	9.24E-03	4.60E-03	1.34E-04	3.39E-03	3.39E-03	2.13E-02	5.10E-04	9.24E-03	4.60E-03	1.34E-04	1.17E-04	3.39E-03	1.80E-02
5.07E-04	9.16E-03	4.58E-03	1.34E-04	3.37E-03	3.37E-03	2.11E-02	5.07E-04	9.16E-03	4.58E-03	1.34E-04	1.17E-04	3.37E-03	1.79E-02
5.04E-04	9.10E-03	4.58E-03	1.33E-04	3.35E-03	3.35E-03	2.10E-02	5.04E-04	9.10E-03	4.58E-03	1.33E-04	1.17E-04	3.35E-03	1.78E-02
5.01E-04	9.03E-03	4.56E-03	1.33E-04	3.33E-03	3.33E-03	2.09E-02	5.01E-04	9.03E-03	4.56E-03	1.33E-04	1.17E-04	3.33E-03	1.77E-02
4.97E-04	8.91E-03	4.53E-03	1.32E-04	3.30E-03	3.30E-03	2.07E-02	4.97E-04	8.91E-03	4.53E-03	1.32E-04	1.16E-04	3.30E-03	1.75E-02
4.94E-04	8.82E-03	4.51E-03	1.32E-04	3.27E-03	3.27E-03	2.05E-02	4.94E-04	8.82E-03	4.51E-03	1.32E-04	1.15E-04	3.27E-03	1.73E-02
4.90E-04	8.71E-03	4.48E-03	1.31E-04	3.24E-03	3.24E-03	2.03E-02	4.90E-04	8.71E-03	4.48E-03	1.31E-04	1.15E-04	3.24E-03	1.72E-02
4.87E-04	8.61E-03	4.45E-03	1.30E-04	3.21E-03	3.21E-03	2.01E-02	4.87E-04	8.61E-03	4.45E-03	1.30E-04	1.14E-04	3.21E-03	1.70E-02
4.80E-04	8.43E-03	4.39E-03	1.29E-04	3.16E-03	3.16E-03	1.97E-02	4.80E-04	8.43E-03	4.39E-03	1.29E-04	1.13E-04	3.16E-03	1.67E-02
4.76E-04	8.31E-03	4.35E-03	1.28E-04	3.12E-03	3.12E-03	1.95E-02	4.76E-04	8.31E-03	4.35E-03	1.28E-04	1.12E-04	3.12E-03	1.65E-02
4.72E-04	8.20E-03	4.31E-03	1.27E-04	3.08E-03	3.08E-03	1.93E-02	4.72E-04	8.20E-03	4.31E-03	1.27E-04	1.12E-04	3.08E-03	1.63E-02
4.68E-04	8.09E-03	4.28E-03	1.26E-04	3.05E-03	3.05E-03	1.91E-02	4.68E-04	8.09E-03	4.28E-03	1.26E-04	1.11E-04	3.05E-03	1.61E-02
6.40E-04	1.33E-02	5.43E-03	1.53E-04	4.41E-03	4.41E-03	2.83E-02	6.40E-04	1.33E-02	5.43E-03	1.53E-04	1.30E-04	4.41E-03	2.40E-02
6.29E-04	1.29E-02	5.36E-03	1.51E-04	4.32E-03	4.32E-03	2.77E-02	6.29E-04	1.29E-02	5.36E-03	1.51E-04	1.29E-04	4.32E-03	2.35E-02
6.12E-04	1.24E-02	5.25E-03	1.49E-04	4.18E-03	4.18E-03	2.67E-02	6.12E-04	1.24E-02	5.25E-03	1.49E-04	1.27E-04	4.18E-03	2.27E-02
6.11E-04	1.23E-02	5.25E-03	1.49E-04	4.17E-03	4.17E-03	2.67E-02	6.11E-04	1.23E-02	5.25E-03	1.49E-04	1.27E-04	4.17E-03	2.26E-02
6.01E-04	1.20E-02	5.19E-03	1.47E-04	4.10E-03	4.10E-03	2.61E-02	6.01E-04	1.20E-02	5.19E-03	1.47E-04	1.26E-04	4.10E-03	2.22E-02
5.94E-04	1.18E-02	5.14E-03	1.46E-04	4.03E-03	4.03E-03	2.57E-02	5.94E-04	1.18E-02	5.14E-03	1.46E-04	1.26E-04	4.03E-03	2.18E-02
5.92E-04	1.17E-02	5.14E-03	1.46E-04	4.03E-03	4.03E-03	2.57E-02	5.92E-04	1.17E-02	5.14E-03	1.46E-04	1.26E-04	4.03E-03	2.17E-02
5.82E-04	1.14E-02	5.07E-03	1.45E-04	3.94E-03	3.94E-03	2.51E-02	5.82E-04	1.14E-02	5.07E-03	1.45E-04	1.25E-04	3.94E-03	2.13E-02
5.71E-04	1.11E-02	4.99E-03	1.43E-04	3.85E-03	3.85E-03	2.45E-02	5.71E-04	1.11E-02	4.99E-03	1.43E-04	1.23E-04	3.85E-03	2.07E-02
5.68E-04	1.10E-02	4.97E-03	1.42E-04	3.83E-03	3.83E-03	2.43E-02	5.68E-04	1.10E-02	4.97E-03	1.42E-04	1.23E-04	3.83E-03	2.06E-02
5.55E-04	1.05E-02	4.86E-03	1.40E-04	3.71E-03	3.71E-03	2.35E-02	5.55E-04	1.05E-02	4.86E-03	1.40E-04	1.21E-04	3.71E-03	1.99E-02
5.49E-04	1.04E-02	4.82E-03	1.39E-04	3.66E-03	3.66E-03	2.32E-02	5.49E-04	1.04E-02	4.82E-03	1.39E-04	1.21E-04	3.66E-03	1.96E-02
5.44E-04	1.02E-02	4.79E-03	1.38E-04	3.63E-03	3.63E-03	2.30E-02	5.44E-04	1.02E-02	4.79E-03	1.38E-04	1.20E-04	3.63E-03	1.94E-02
5.37E-04	1.00E-02	4.73E-03	1.37E-04	3.57E-03	3.57E-03	2.26E-02	5.37E-04	1.00E-02	4.73E-03	1.37E-04	1.19E-04	3.57E-03	1.91E-02
5.33E-04	9.90E-03	4.71E-03	1.36E-04	3.54E-03	3.54E-03	2.24E-02	5.33E-04	9.90E-03	4.71E-03	1.36E-04	1.19E-04	3.54E-03	1.89E-02
5.29E-04	9.79E-03	4.68E-03	1.35E-04	3.51E-03	3.51E-03	2.22E-02	5.29E-04	9.79E-03	4.68E-03	1.35E-04	1.18E-04	3.51E-03	1.88E-02
5.23E-04	9.59E-03	4.63E-03	1.34E-04	3.45E-03	3.45E-03	2.18E-02	5.23E-04	9.59E-03	4.63E-03	1.34E-04	1.17E-04	3.45E-03	1.84E-02
5.19E-04	9.49E-03	4.61E-03	1.34E-04	3.43E-03	3.43E-03	2.16E-02	5.19E-04	9.49E-03	4.61E-03	1.34E-04	1.17E-04	3.43E-03	1.83E-02
5.17E-04	9.43E-03	4.60E-03	1.33E-04	3.41E-03	3.41E-03	2.15E-02	5.17E-04	9.43E-03	4.60E-03	1.33E-04	1.17E-04	3.41E-03	1.82E-02
5.13E-04	9.33E-03	4.58E-03	1.33E-04	3.39E-03	3.39E-03	2.13E-02	5.13E-04	9.33E-03	4.58E-03	1.33E-04	1.16E-04	3.39E-03	1.81E-02
5.10E-04	9.24E-03	4.56E-03	1.32E-04	3.37E-03	3.37E-03	2.12E-02	5.10E-04	9.24E-03	4.56E-03	1.32E-04	1.16E-04	3.37E-03	1.79E-02

5.06E-04	9.13E-03	4.54E-03	1.31E-04	3.34E-03	3.34E-03	2.10E-02	5.06E-04	9.13E-03	4.54E-03	1.31E-04	1.15E-04	3.34E-03	1.78E-02
5.03E-04	9.03E-03	4.51E-03	1.31E-04	3.31E-03	3.31E-03	2.08E-02	5.03E-04	9.03E-03	4.51E-03	1.31E-04	1.15E-04	3.31E-03	1.76E-02
4.98E-04	8.91E-03	4.48E-03	1.30E-04	3.27E-03	3.27E-03	2.06E-02	4.98E-04	8.91E-03	4.48E-03	1.30E-04	1.14E-04	3.27E-03	1.74E-02
4.89E-04	8.65E-03	4.41E-03	1.28E-04	3.20E-03	3.20E-03	2.01E-02	4.89E-04	8.65E-03	4.41E-03	1.28E-04	1.13E-04	3.20E-03	1.70E-02
4.88E-04	8.61E-03	4.39E-03	1.28E-04	3.19E-03	3.19E-03	2.00E-02	4.88E-04	8.61E-03	4.39E-03	1.28E-04	1.12E-04	3.19E-03	1.69E-02
4.83E-04	8.48E-03	4.35E-03	1.27E-04	3.15E-03	3.15E-03	1.97E-02	4.83E-04	8.48E-03	4.35E-03	1.27E-04	1.12E-04	3.15E-03	1.67E-02
4.79E-04	8.34E-03	4.31E-03	1.26E-04	3.10E-03	3.10E-03	1.95E-02	4.79E-04	8.34E-03	4.31E-03	1.26E-04	1.11E-04	3.10E-03	1.65E-02
6.54E-04	1.37E-02	5.38E-03	1.51E-04	4.45E-03	4.45E-03	2.88E-02	6.54E-04	1.37E-02	5.38E-03	1.51E-04	1.28E-04	4.45E-03	2.45E-02
6.38E-04	1.32E-02	5.31E-03	1.50E-04	4.35E-03	4.35E-03	2.80E-02	6.38E-04	1.32E-02	5.31E-03	1.50E-04	1.27E-04	4.35E-03	2.38E-02
6.22E-04	1.27E-02	5.20E-03	1.47E-04	4.20E-03	4.20E-03	2.71E-02	6.22E-04	1.27E-02	5.20E-03	1.47E-04	1.26E-04	4.20E-03	2.30E-02
6.24E-04	1.27E-02	5.21E-03	1.47E-04	4.22E-03	4.22E-03	2.71E-02	6.24E-04	1.27E-02	5.21E-03	1.47E-04	1.26E-04	4.22E-03	2.31E-02
6.15E-04	1.24E-02	5.16E-03	1.46E-04	4.14E-03	4.14E-03	2.66E-02	6.15E-04	1.24E-02	5.16E-03	1.46E-04	1.25E-04	4.14E-03	2.26E-02
6.07E-04	1.22E-02	5.11E-03	1.45E-04	4.08E-03	4.08E-03	2.62E-02	6.07E-04	1.22E-02	5.11E-03	1.45E-04	1.24E-04	4.08E-03	2.23E-02
6.02E-04	1.20E-02	5.09E-03	1.44E-04	4.05E-03	4.05E-03	2.60E-02	6.02E-04	1.20E-02	5.09E-03	1.44E-04	1.24E-04	4.05E-03	2.20E-02
5.96E-04	1.18E-02	5.05E-03	1.43E-04	4.00E-03	4.00E-03	2.56E-02	5.96E-04	1.18E-02	5.05E-03	1.43E-04	1.23E-04	4.00E-03	2.17E-02
5.80E-04	1.13E-02	4.93E-03	1.41E-04	3.86E-03	3.86E-03	2.47E-02	5.80E-04	1.13E-02	4.93E-03	1.41E-04	1.22E-04	3.86E-03	2.09E-02
5.81E-04	1.13E-02	4.96E-03	1.41E-04	3.88E-03	3.88E-03	2.48E-02	5.81E-04	1.13E-02	4.96E-03	1.41E-04	1.22E-04	3.88E-03	2.10E-02
5.70E-04	1.10E-02	4.87E-03	1.39E-04	3.78E-03	3.78E-03	2.41E-02	5.70E-04	1.10E-02	4.87E-03	1.39E-04	1.21E-04	3.78E-03	2.04E-02
5.63E-04	1.08E-02	4.83E-03	1.38E-04	3.73E-03	3.73E-03	2.38E-02	5.63E-04	1.08E-02	4.83E-03	1.38E-04	1.20E-04	3.73E-03	2.01E-02
5.56E-04	1.06E-02	4.78E-03	1.37E-04	3.67E-03	3.67E-03	2.34E-02	5.56E-04	1.06E-02	4.78E-03	1.37E-04	1.19E-04	3.67E-03	1.98E-02
5.52E-04	1.04E-02	4.76E-03	1.36E-04	3.64E-03	3.64E-03	2.32E-02	5.52E-04	1.04E-02	4.76E-03	1.36E-04	1.19E-04	3.64E-03	1.96E-02
5.49E-04	1.03E-02	4.74E-03	1.36E-04	3.62E-03	3.62E-03	2.30E-02	5.49E-04	1.03E-02	4.74E-03	1.36E-04	1.18E-04	3.62E-03	1.95E-02
5.43E-04	1.02E-02	4.71E-03	1.35E-04	3.58E-03	3.58E-03	2.27E-02	5.43E-04	1.02E-02	4.71E-03	1.35E-04	1.18E-04	3.58E-03	1.92E-02
5.37E-04	9.97E-03	4.66E-03	1.34E-04	3.53E-03	3.53E-03	2.23E-02	5.37E-04	9.97E-03	4.66E-03	1.34E-04	1.17E-04	3.53E-03	1.89E-02
5.34E-04	9.87E-03	4.64E-03	1.34E-04	3.50E-03	3.50E-03	2.22E-02	5.34E-04	9.87E-03	4.64E-03	1.34E-04	1.17E-04	3.50E-03	1.88E-02
5.31E-04	9.81E-03	4.63E-03	1.33E-04	3.49E-03	3.49E-03	2.21E-02	5.31E-04	9.81E-03	4.63E-03	1.33E-04	1.16E-04	3.49E-03	1.87E-02
5.26E-04	9.65E-03	4.60E-03	1.32E-04	3.45E-03	3.45E-03	2.18E-02	5.26E-04	9.65E-03	4.60E-03	1.32E-04	1.16E-04	3.45E-03	1.85E-02
5.22E-04	9.52E-03	4.57E-03	1.32E-04	3.41E-03	3.41E-03	2.16E-02	5.22E-04	9.52E-03	4.57E-03	1.32E-04	1.15E-04	3.41E-03	1.83E-02
5.18E-04	9.42E-03	4.55E-03	1.31E-04	3.39E-03	3.39E-03	2.14E-02	5.18E-04	9.42E-03	4.55E-03	1.31E-04	1.15E-04	3.39E-03	1.81E-02
5.15E-04	9.33E-03	4.53E-03	1.31E-04	3.37E-03	3.37E-03	2.12E-02	5.15E-04	9.33E-03	4.53E-03	1.31E-04	1.14E-04	3.37E-03	1.80E-02
5.09E-04	9.15E-03	4.48E-03	1.29E-04	3.32E-03	3.32E-03	2.09E-02	5.09E-04	9.15E-03	4.48E-03	1.29E-04	1.14E-04	3.32E-03	1.77E-02
5.03E-04	8.97E-03	4.43E-03	1.28E-04	3.26E-03	3.26E-03	2.06E-02	5.03E-04	8.97E-03	4.43E-03	1.28E-04	1.13E-04	3.26E-03	1.74E-02
4.99E-04	8.85E-03	4.40E-03	1.27E-04	3.23E-03	3.23E-03	2.03E-02	4.99E-04	8.85E-03	4.40E-03	1.27E-04	1.12E-04	3.23E-03	1.72E-02
4.94E-04	8.73E-03	4.37E-03	1.27E-04	3.20E-03	3.20E-03	2.01E-02	4.94E-04	8.73E-03	4.37E-03	1.27E-04	1.11E-04	3.20E-03	1.70E-02
4.89E-04	8.59E-03	4.33E-03	1.26E-04	3.16E-03	3.16E-03	1.98E-02	4.89E-04	8.59E-03	4.33E-03	1.26E-04	1.11E-04	3.16E-03	1.68E-02
6.69E-04	1.43E-02	5.33E-03	1.49E-04	4.50E-03	4.50E-03	2.94E-02	6.69E-04	1.43E-02	5.33E-03	1.49E-04	1.26E-04	4.50E-03	2.50E-02
6.49E-04	1.36E-02	5.23E-03	1.47E-04	4.34E-03	4.34E-03	2.83E-02	6.49E-04	1.36E-02	5.23E-03	1.47E-04	1.25E-04	4.34E-03	2.40E-02
6.38E-04	1.32E-02	5.16E-03	1.46E-04	4.26E-03	4.26E-03	2.76E-02	6.38E-04	1.32E-02	5.16E-03	1.46E-04	1.24E-04	4.26E-03	2.35E-02
6.38E-04	1.32E-02	5.17E-03	1.46E-04	4.26E-03	4.26E-03	2.76E-02	6.38E-04	1.32E-02	5.17E-03	1.46E-04	1.24E-04	4.26E-03	2.35E-02
6.25E-04	1.27E-02	5.10E-03	1.44E-04	4.16E-03	4.16E-03	2.69E-02	6.25E-04	1.27E-02	5.10E-03	1.44E-04	1.23E-04	4.16E-03	2.29E-02
6.22E-04	1.27E-02	5.09E-03	1.44E-04	4.15E-03	4.15E-03	2.68E-02	6.22E-04	1.27E-02	5.09E-03	1.44E-04	1.23E-04	4.15E-03	2.28E-02
6.18E-04	1.25E-02	5.07E-03	1.43E-04	4.12E-03	4.12E-03	2.66E-02	6.18E-04	1.25E-02	5.07E-03	1.43E-04	1.22E-04	4.12E-03	2.26E-02
6.04E-04	1.20E-02	4.99E-03	1.42E-04	4.01E-03	4.01E-03	2.58E-02	6.04E-04	1.20E-02	4.99E-03	1.42E-04	1.21E-04	4.01E-03	2.19E-02
5.93E-04	1.17E-02	4.92E-03	1.40E-04	3.91E-03	3.91E-03	2.52E-02	5.93E-04	1.17E-02	4.92E-03	1.40E-04	1.20E-04	3.91E-03	2.14E-02
5.97E-04	1.18E-02	4.96E-03	1.40E-04	3.95E-03	3.95E-03	2.54E-02	5.97E-04	1.18E-02	4.96E-03	1.40E-04	1.21E-04	3.95E-03	2.16E-02
5.84E-04	1.14E-02	4.87E-03	1.39E-04	3.85E-03	3.85E-03	2.47E-02	5.84E-04	1.14E-02	4.87E-03	1.39E-04	1.20E-04	3.85E-03	2.10E-02
5.79E-04	1.12E-02	4.84E-03	1.38E-04	3.81E-03	3.81E-03	2.44E-02	5.79E-04	1.12E-02	4.84E-03	1.38E-04	1.19E-04	3.81E-03	2.07E-02
5.70E-04	1.09E-02	4.78E-03	1.36E-04	3.73E-03	3.73E-03	2.39E-02	5.70E-04	1.09E-02	4.78E-03	1.36E-04	1.18E-04	3.73E-03	2.02E-02
5.69E-04	1.09E-02	4.79E-03	1.36E-04	3.73E-03	3.73E-03	2.39E-02	5.69E-04	1.09E-02	4.79E-03	1.36E-04	1.18E-04	3.73E-03	2.03E-02
5.60E-04	1.06E-02	4.72E-03	1.35E-04	3.65E-03	3.65E-03	2.33E-02	5.60E-04	1.06E-02	4.72E-03	1.35E-04	1.17E-04	3.65E-03	1.98E-02
5.57E-04	1.05E-02	4.71E-03	1.35E-04	3.64E-03	3.64E-03	2.32E-02	5.57E-04	1.05E-02	4.71E-03	1.35E-04	1.17E-04	3.64E-03	1.97E-02
5.50E-04	1.03E-02	4.67E-03	1.33E-04	3.59E-03	3.59E-03	2.28E-02	5.50E-04	1.03E-02	4.67E-03	1.33E-04	1.16E-04	3.59E-03	1.94E-02
5.47E-04	1.02E-02	4.65E-03	1.33E-04	3.57E-03	3.57E-03	2.27E-02	5.47E-04	1.02E-02	4.65E-03	1.33E-04	1.16E-04	3.57E-03	1.92E-02
5.43E-04	1.01E-02	4.63E-03	1.32E-04	3.53E-03	3.53E-03	2.25E-02	5.43E-04	1.01E-02	4.63E-03	1.32E-04	1.16E-04	3.53E-03	1.90E-02

5.39E-04	9.98E-03	4.61E-03	1.32E-04	3.51E-03	3.51E-03	2.23E-02	5.39E-04	9.98E-03	4.61E-03	1.32E-04	1.15E-04	3.51E-03	1.89E-02
5.36E-04	9.89E-03	4.59E-03	1.31E-04	3.48E-03	3.48E-03	2.21E-02	5.36E-04	9.89E-03	4.59E-03	1.31E-04	1.15E-04	3.48E-03	1.87E-02
5.32E-04	9.75E-03	4.56E-03	1.31E-04	3.45E-03	3.45E-03	2.19E-02	5.32E-04	9.75E-03	4.56E-03	1.31E-04	1.14E-04	3.45E-03	1.85E-02
5.28E-04	9.65E-03	4.54E-03	1.30E-04	3.43E-03	3.43E-03	2.17E-02	5.28E-04	9.65E-03	4.54E-03	1.30E-04	1.14E-04	3.43E-03	1.84E-02
5.21E-04	9.42E-03	4.49E-03	1.29E-04	3.36E-03	3.36E-03	2.13E-02	5.21E-04	9.42E-03	4.49E-03	1.29E-04	1.13E-04	3.36E-03	1.80E-02
5.13E-04	9.21E-03	4.43E-03	1.28E-04	3.31E-03	3.31E-03	2.09E-02	5.13E-04	9.21E-03	4.43E-03	1.28E-04	1.12E-04	3.31E-03	1.77E-02
5.12E-04	9.15E-03	4.43E-03	1.27E-04	3.29E-03	3.29E-03	2.08E-02	5.12E-04	9.15E-03	4.43E-03	1.27E-04	1.12E-04	3.29E-03	1.76E-02
5.04E-04	8.93E-03	4.36E-03	1.26E-04	3.23E-03	3.23E-03	2.04E-02	5.04E-04	8.93E-03	4.36E-03	1.26E-04	1.11E-04	3.23E-03	1.73E-02
5.01E-04	8.84E-03	4.35E-03	1.25E-04	3.21E-03	3.21E-03	2.02E-02	5.01E-04	8.84E-03	4.35E-03	1.25E-04	1.10E-04	3.21E-03	1.71E-02
6.80E-04	1.46E-02	5.25E-03	1.47E-04	4.51E-03	4.51E-03	2.97E-02	6.80E-04	1.46E-02	5.25E-03	1.47E-04	1.24E-04	4.51E-03	2.53E-02
6.61E-04	1.39E-02	5.16E-03	1.45E-04	4.36E-03	4.36E-03	2.86E-02	6.61E-04	1.39E-02	5.16E-03	1.45E-04	1.23E-04	4.36E-03	2.44E-02
6.53E-04	1.37E-02	5.13E-03	1.44E-04	4.31E-03	4.31E-03	2.82E-02	6.53E-04	1.37E-02	5.13E-03	1.44E-04	1.22E-04	4.31E-03	2.40E-02
6.52E-04	1.36E-02	5.13E-03	1.44E-04	4.31E-03	4.31E-03	2.82E-02	6.52E-04	1.36E-02	5.13E-03	1.44E-04	1.22E-04	4.31E-03	2.40E-02
6.44E-04	1.33E-02	5.09E-03	1.43E-04	4.24E-03	4.24E-03	2.77E-02	6.44E-04	1.33E-02	5.09E-03	1.43E-04	1.22E-04	4.24E-03	2.36E-02
6.38E-04	1.31E-02	5.06E-03	1.42E-04	4.20E-03	4.20E-03	2.74E-02	6.38E-04	1.31E-02	5.06E-03	1.42E-04	1.21E-04	4.20E-03	2.33E-02
6.32E-04	1.29E-02	5.04E-03	1.42E-04	4.16E-03	4.16E-03	2.71E-02	6.32E-04	1.29E-02	5.04E-03	1.42E-04	1.21E-04	4.16E-03	2.30E-02
6.15E-04	1.24E-02	4.95E-03	1.40E-04	4.04E-03	4.04E-03	2.61E-02	6.15E-04	1.24E-02	4.95E-03	1.40E-04	1.20E-04	4.04E-03	2.22E-02
6.10E-04	1.22E-02	4.93E-03	1.39E-04	4.00E-03	4.00E-03	2.59E-02	6.10E-04	1.22E-02	4.93E-03	1.39E-04	1.19E-04	4.00E-03	2.20E-02
6.08E-04	1.21E-02	4.91E-03	1.39E-04	3.98E-03	3.98E-03	2.57E-02	6.08E-04	1.21E-02	4.91E-03	1.39E-04	1.19E-04	3.98E-03	2.19E-02
5.99E-04	1.18E-02	4.86E-03	1.38E-04	3.91E-03	3.91E-03	2.52E-02	5.99E-04	1.18E-02	4.86E-03	1.38E-04	1.18E-04	3.91E-03	2.14E-02
5.94E-04	1.16E-02	4.84E-03	1.37E-04	3.87E-03	3.87E-03	2.50E-02	5.94E-04	1.16E-02	4.84E-03	1.37E-04	1.18E-04	3.87E-03	2.12E-02
5.87E-04	1.14E-02	4.80E-03	1.36E-04	3.82E-03	3.82E-03	2.46E-02	5.87E-04	1.14E-02	4.80E-03	1.36E-04	1.17E-04	3.82E-03	2.09E-02
5.82E-04	1.13E-02	4.77E-03	1.35E-04	3.79E-03	3.79E-03	2.43E-02	5.82E-04	1.13E-02	4.77E-03	1.35E-04	1.17E-04	3.79E-03	2.06E-02
5.76E-04	1.11E-02	4.74E-03	1.34E-04	3.74E-03	3.74E-03	2.40E-02	5.76E-04	1.11E-02	4.74E-03	1.34E-04	1.17E-04	3.74E-03	2.04E-02
5.72E-04	1.09E-02	4.72E-03	1.34E-04	3.71E-03	3.71E-03	2.38E-02	5.72E-04	1.09E-02	4.72E-03	1.34E-04	1.16E-04	3.71E-03	2.02E-02
5.66E-04	1.07E-02	4.68E-03	1.33E-04	3.66E-03	3.66E-03	2.34E-02	5.66E-04	1.07E-02	4.68E-03	1.33E-04	1.16E-04	3.66E-03	1.99E-02
5.61E-04	1.06E-02	4.66E-03	1.32E-04	3.63E-03	3.63E-03	2.32E-02	5.61E-04	1.06E-02	4.66E-03	1.32E-04	1.15E-04	3.63E-03	1.97E-02
5.57E-04	1.05E-02	4.64E-03	1.32E-04	3.60E-03	3.60E-03	2.30E-02	5.57E-04	1.05E-02	4.64E-03	1.32E-04	1.15E-04	3.60E-03	1.95E-02
5.52E-04	1.03E-02	4.61E-03	1.31E-04	3.56E-03	3.56E-03	2.27E-02	5.52E-04	1.03E-02	4.61E-03	1.31E-04	1.14E-04	3.56E-03	1.93E-02
5.48E-04	1.02E-02	4.59E-03	1.30E-04	3.53E-03	3.53E-03	2.25E-02	5.48E-04	1.02E-02	4.59E-03	1.30E-04	1.14E-04	3.53E-03	1.91E-02
5.45E-04	1.01E-02	4.57E-03	1.30E-04	3.51E-03	3.51E-03	2.23E-02	5.45E-04	1.01E-02	4.57E-03	1.30E-04	1.13E-04	3.51E-03	1.89E-02
5.40E-04	9.92E-03	4.54E-03	1.29E-04	3.47E-03	3.47E-03	2.21E-02	5.40E-04	9.92E-03	4.54E-03	1.29E-04	1.13E-04	3.47E-03	1.87E-02
5.32E-04	9.69E-03	4.49E-03	1.28E-04	3.41E-03	3.41E-03	2.17E-02	5.32E-04	9.69E-03	4.49E-03	1.28E-04	1.12E-04	3.41E-03	1.84E-02
5.27E-04	9.49E-03	4.44E-03	1.27E-04	3.36E-03	3.36E-03	2.13E-02	5.27E-04	9.49E-03	4.44E-03	1.27E-04	1.11E-04	3.36E-03	1.81E-02
5.23E-04	9.39E-03	4.42E-03	1.27E-04	3.33E-03	3.33E-03	2.11E-02	5.23E-04	9.39E-03	4.42E-03	1.27E-04	1.11E-04	3.33E-03	1.79E-02
5.18E-04	9.24E-03	4.39E-03	1.26E-04	3.30E-03	3.30E-03	2.09E-02	5.18E-04	9.24E-03	4.39E-03	1.26E-04	1.10E-04	3.30E-03	1.77E-02
5.13E-04	9.08E-03	4.35E-03	1.25E-04	3.25E-03	3.25E-03	2.06E-02	5.13E-04	9.08E-03	4.35E-03	1.25E-04	1.10E-04	3.25E-03	1.74E-02
6.79E-04	1.45E-02	5.13E-03	1.44E-04	4.42E-03	4.42E-03	2.93E-02	6.79E-04	1.45E-02	5.13E-03	1.44E-04	1.22E-04	4.42E-03	2.50E-02
6.71E-04	1.42E-02	5.08E-03	1.43E-04	4.36E-03	4.36E-03	2.88E-02	6.71E-04	1.42E-02	5.08E-03	1.43E-04	1.21E-04	4.36E-03	2.46E-02
6.66E-04	1.40E-02	5.07E-03	1.43E-04	4.33E-03	4.33E-03	2.85E-02	6.66E-04	1.40E-02	5.07E-03	1.43E-04	1.21E-04	4.33E-03	2.43E-02
6.67E-04	1.41E-02	5.08E-03	1.42E-04	4.35E-03	4.35E-03	2.86E-02	6.67E-04	1.41E-02	5.08E-03	1.42E-04	1.21E-04	4.35E-03	2.44E-02
6.60E-04	1.38E-02	5.05E-03	1.42E-04	4.29E-03	4.29E-03	2.82E-02	6.60E-04	1.38E-02	5.05E-03	1.42E-04	1.20E-04	4.29E-03	2.41E-02
6.54E-04	1.36E-02	5.03E-03	1.41E-04	4.26E-03	4.26E-03	2.79E-02	6.54E-04	1.36E-02	5.03E-03	1.41E-04	1.20E-04	4.26E-03	2.38E-02
6.48E-04	1.34E-02	5.00E-03	1.40E-04	4.22E-03	4.22E-03	2.76E-02	6.48E-04	1.34E-02	5.00E-03	1.40E-04	1.19E-04	4.22E-03	2.35E-02
6.31E-04	1.28E-02	4.91E-03	1.39E-04	4.08E-03	4.08E-03	2.66E-02	6.31E-04	1.28E-02	4.91E-03	1.39E-04	1.18E-04	4.08E-03	2.27E-02
6.28E-04	1.27E-02	4.91E-03	1.38E-04	4.07E-03	4.07E-03	2.65E-02	6.28E-04	1.27E-02	4.91E-03	1.38E-04	1.18E-04	4.07E-03	2.26E-02
6.20E-04	1.24E-02	4.87E-03	1.37E-04	4.01E-03	4.01E-03	2.61E-02	6.20E-04	1.24E-02	4.87E-03	1.37E-04	1.17E-04	4.01E-03	2.22E-02
6.12E-04	1.21E-02	4.82E-03	1.36E-04	3.94E-03	3.94E-03	2.56E-02	6.12E-04	1.21E-02	4.82E-03	1.36E-04	1.17E-04	3.94E-03	2.18E-02
6.10E-04	1.21E-02	4.82E-03	1.36E-04	3.94E-03	3.94E-03	2.55E-02	6.10E-04	1.21E-02	4.82E-03	1.36E-04	1.17E-04	3.94E-03	2.17E-02
6.03E-04	1.18E-02	4.79E-03	1.35E-04	3.88E-03	3.88E-03	2.51E-02	6.03E-04	1.18E-02	4.79E-03	1.35E-04	1.16E-04	3.88E-03	2.14E-02
5.96E-04	1.16E-02	4.75E-03	1.34E-04	3.83E-03	3.83E-03	2.48E-02	5.96E-04	1.16E-02	4.75E-03	1.34E-04	1.16E-04	3.83E-03	2.10E-02
5.92E-04	1.15E-02	4.73E-03	1.34E-04	3.81E-03	3.81E-03	2.45E-02	5.92E-04	1.15E-02	4.73E-03	1.34E-04	1.15E-04	3.81E-03	2.09E-02
5.87E-04	1.13E-02	4.71E-03	1.33E-04	3.77E-03	3.77E-03	2.43E-02	5.87E-04	1.13E-02	4.71E-03	1.33E-04	1.15E-04	3.77E-03	2.06E-02
5.81E-04	1.11E-02	4.68E-03	1.32E-04	3.73E-03	3.73E-03	2.40E-02	5.81E-04	1.11E-02	4.68E-03	1.32E-04	1.15E-04	3.73E-03	2.03E-02

5.75E-04	1.09E-02	4.65E-03	1.31E-04	3.68E-03	3.68E-03	2.36E-02	5.75E-04	1.09E-02	4.65E-03	1.31E-04	1.14E-04	3.68E-03	2.01E-02
5.69E-04	1.07E-02	4.61E-03	1.31E-04	3.64E-03	3.64E-03	2.33E-02	5.69E-04	1.07E-02	4.61E-03	1.31E-04	1.13E-04	3.64E-03	1.98E-02
5.67E-04	1.06E-02	4.60E-03	1.30E-04	3.62E-03	3.62E-03	2.32E-02	5.67E-04	1.06E-02	4.60E-03	1.30E-04	1.13E-04	3.62E-03	1.97E-02
5.61E-04	1.05E-02	4.57E-03	1.30E-04	3.58E-03	3.58E-03	2.29E-02	5.61E-04	1.05E-02	4.57E-03	1.30E-04	1.13E-04	3.58E-03	1.94E-02
5.56E-04	1.03E-02	4.55E-03	1.29E-04	3.54E-03	3.54E-03	2.26E-02	5.56E-04	1.03E-02	4.55E-03	1.29E-04	1.12E-04	3.54E-03	1.92E-02
5.50E-04	1.01E-02	4.50E-03	1.28E-04	3.49E-03	3.49E-03	2.23E-02	5.50E-04	1.01E-02	4.50E-03	1.28E-04	1.12E-04	3.49E-03	1.89E-02
5.44E-04	9.94E-03	4.47E-03	1.27E-04	3.45E-03	3.45E-03	2.20E-02	5.44E-04	9.94E-03	4.47E-03	1.27E-04	1.11E-04	3.45E-03	1.86E-02
5.36E-04	9.66E-03	4.41E-03	1.26E-04	3.38E-03	3.38E-03	2.15E-02	5.36E-04	9.66E-03	4.41E-03	1.26E-04	1.10E-04	3.38E-03	1.82E-02
5.35E-04	9.63E-03	4.41E-03	1.26E-04	3.38E-03	3.38E-03	2.15E-02	5.35E-04	9.63E-03	4.41E-03	1.26E-04	1.10E-04	3.38E-03	1.82E-02
5.30E-04	9.49E-03	4.39E-03	1.25E-04	3.34E-03	3.34E-03	2.12E-02	5.30E-04	9.49E-03	4.39E-03	1.25E-04	1.10E-04	3.34E-03	1.80E-02
5.25E-04	9.33E-03	4.35E-03	1.24E-04	3.30E-03	3.30E-03	2.09E-02	5.25E-04	9.33E-03	4.35E-03	1.24E-04	1.09E-04	3.30E-03	1.77E-02
6.99E-04	1.51E-02	5.08E-03	1.42E-04	4.49E-03	4.49E-03	3.00E-02	6.99E-04	1.51E-02	5.08E-03	1.42E-04	1.20E-04	4.49E-03	2.56E-02
6.91E-04	1.48E-02	5.05E-03	1.42E-04	4.43E-03	4.43E-03	2.95E-02	6.91E-04	1.48E-02	5.05E-03	1.42E-04	1.20E-04	4.43E-03	2.52E-02
6.81E-04	1.44E-02	5.01E-03	1.41E-04	4.36E-03	4.36E-03	2.90E-02	6.81E-04	1.44E-02	5.01E-03	1.41E-04	1.19E-04	4.36E-03	2.48E-02
6.81E-04	1.44E-02	5.02E-03	1.40E-04	4.37E-03	4.37E-03	2.90E-02	6.81E-04	1.44E-02	5.02E-03	1.40E-04	1.19E-04	4.37E-03	2.48E-02
6.77E-04	1.43E-02	5.01E-03	1.40E-04	4.35E-03	4.35E-03	2.88E-02	6.77E-04	1.43E-02	5.01E-03	1.40E-04	1.19E-04	4.35E-03	2.46E-02
6.70E-04	1.40E-02	4.98E-03	1.39E-04	4.30E-03	4.30E-03	2.84E-02	6.70E-04	1.40E-02	4.98E-03	1.39E-04	1.18E-04	4.30E-03	2.42E-02
6.60E-04	1.37E-02	4.94E-03	1.38E-04	4.24E-03	4.24E-03	2.79E-02	6.60E-04	1.37E-02	4.94E-03	1.38E-04	1.18E-04	4.24E-03	2.38E-02
6.44E-04	1.32E-02	4.88E-03	1.37E-04	4.13E-03	4.13E-03	2.71E-02	6.44E-04	1.32E-02	4.88E-03	1.37E-04	1.17E-04	4.13E-03	2.31E-02
6.44E-04	1.31E-02	4.87E-03	1.37E-04	4.12E-03	4.12E-03	2.70E-02	6.44E-04	1.31E-02	4.87E-03	1.37E-04	1.17E-04	4.12E-03	2.30E-02
6.39E-04	1.29E-02	4.85E-03	1.36E-04	4.09E-03	4.09E-03	2.67E-02	6.39E-04	1.29E-02	4.85E-03	1.36E-04	1.16E-04	4.09E-03	2.28E-02
6.31E-04	1.27E-02	4.82E-03	1.35E-04	4.03E-03	4.03E-03	2.63E-02	6.31E-04	1.27E-02	4.82E-03	1.35E-04	1.16E-04	4.03E-03	2.24E-02
6.25E-04	1.25E-02	4.79E-03	1.35E-04	3.99E-03	3.99E-03	2.60E-02	6.25E-04	1.25E-02	4.79E-03	1.35E-04	1.15E-04	3.99E-03	2.21E-02
6.20E-04	1.23E-02	4.77E-03	1.34E-04	3.95E-03	3.95E-03	2.57E-02	6.20E-04	1.23E-02	4.77E-03	1.34E-04	1.15E-04	3.95E-03	2.19E-02
6.14E-04	1.21E-02	4.74E-03	1.33E-04	3.91E-03	3.91E-03	2.54E-02	6.14E-04	1.21E-02	4.74E-03	1.33E-04	1.14E-04	3.91E-03	2.16E-02
6.08E-04	1.19E-02	4.72E-03	1.33E-04	3.87E-03	3.87E-03	2.51E-02	6.08E-04	1.19E-02	4.72E-03	1.33E-04	1.14E-04	3.87E-03	2.13E-02
6.04E-04	1.17E-02	4.70E-03	1.32E-04	3.84E-03	3.84E-03	2.48E-02	6.04E-04	1.17E-02	4.70E-03	1.32E-04	1.14E-04	3.84E-03	2.11E-02
5.98E-04	1.15E-02	4.67E-03	1.31E-04	3.79E-03	3.79E-03	2.45E-02	5.98E-04	1.15E-02	4.67E-03	1.31E-04	1.13E-04	3.79E-03	2.08E-02
5.92E-04	1.13E-02	4.64E-03	1.31E-04	3.75E-03	3.75E-03	2.42E-02	5.92E-04	1.13E-02	4.64E-03	1.31E-04	1.13E-04	3.75E-03	2.05E-02
5.85E-04	1.11E-02	4.61E-03	1.30E-04	3.70E-03	3.70E-03	2.38E-02	5.85E-04	1.11E-02	4.61E-03	1.30E-04	1.12E-04	3.70E-03	2.02E-02
5.81E-04	1.10E-02	4.59E-03	1.29E-04	3.67E-03	3.67E-03	2.36E-02	5.81E-04	1.10E-02	4.59E-03	1.29E-04	1.12E-04	3.67E-03	2.00E-02
5.75E-04	1.08E-02	4.56E-03	1.28E-04	3.63E-03	3.63E-03	2.33E-02	5.75E-04	1.08E-02	4.56E-03	1.28E-04	1.12E-04	3.63E-03	1.98E-02
5.70E-04	1.06E-02	4.53E-03	1.28E-04	3.59E-03	3.59E-03	2.30E-02	5.70E-04	1.06E-02	4.53E-03	1.28E-04	1.11E-04	3.59E-03	1.95E-02
5.65E-04	1.04E-02	4.50E-03	1.27E-04	3.56E-03	3.56E-03	2.27E-02	5.65E-04	1.04E-02	4.50E-03	1.27E-04	1.11E-04	3.56E-03	1.93E-02
5.58E-04	1.02E-02	4.46E-03	1.26E-04	3.50E-03	3.50E-03	2.24E-02	5.58E-04	1.02E-02	4.46E-03	1.26E-04	1.10E-04	3.50E-03	1.90E-02
5.51E-04	1.00E-02	4.42E-03	1.25E-04	3.45E-03	3.45E-03	2.20E-02	5.51E-04	1.00E-02	4.42E-03	1.25E-04	1.10E-04	3.45E-03	1.87E-02
5.46E-04	9.85E-03	4.40E-03	1.25E-04	3.41E-03	3.41E-03	2.17E-02	5.46E-04	9.85E-03	4.40E-03	1.25E-04	1.09E-04	3.41E-03	1.84E-02
5.42E-04	9.71E-03	4.37E-03	1.24E-04	3.38E-03	3.38E-03	2.15E-02	5.42E-04	9.71E-03	4.37E-03	1.24E-04	1.09E-04	3.38E-03	1.82E-02
5.38E-04	9.60E-03	4.35E-03	1.24E-04	3.35E-03	3.35E-03	2.13E-02	5.38E-04	9.60E-03	4.35E-03	1.24E-04	1.08E-04	3.35E-03	1.81E-02
7.20E-04	1.57E-02	5.04E-03	1.40E-04	4.54E-03	4.54E-03	3.06E-02	7.20E-04	1.57E-02	5.04E-03	1.40E-04	1.19E-04	4.54E-03	2.62E-02
7.08E-04	1.52E-02	5.00E-03	1.40E-04	4.47E-03	4.47E-03	3.00E-02	7.08E-04	1.52E-02	5.00E-03	1.40E-04	1.18E-04	4.47E-03	2.57E-02
6.95E-04	1.48E-02	4.95E-03	1.39E-04	4.39E-03	4.39E-03	2.94E-02	6.95E-04	1.48E-02	4.95E-03	1.39E-04	1.17E-04	4.39E-03	2.51E-02
6.94E-04	1.48E-02	4.95E-03	1.38E-04	4.38E-03	4.38E-03	2.93E-02	6.94E-04	1.48E-02	4.95E-03	1.38E-04	1.17E-04	4.38E-03	2.50E-02
6.94E-04	1.47E-02	4.95E-03	1.38E-04	4.39E-03	4.39E-03	2.93E-02	6.94E-04	1.47E-02	4.95E-03	1.38E-04	1.17E-04	4.39E-03	2.50E-02
6.87E-04	1.45E-02	4.93E-03	1.37E-04	4.34E-03	4.34E-03	2.89E-02	6.87E-04	1.45E-02	4.93E-03	1.37E-04	1.16E-04	4.34E-03	2.47E-02
6.73E-04	1.40E-02	4.88E-03	1.36E-04	4.25E-03	4.25E-03	2.82E-02	6.73E-04	1.40E-02	4.88E-03	1.36E-04	1.16E-04	4.25E-03	2.40E-02
6.65E-04	1.37E-02	4.85E-03	1.36E-04	4.19E-03	4.19E-03	2.77E-02	6.65E-04	1.37E-02	4.85E-03	1.36E-04	1.15E-04	4.19E-03	2.37E-02
6.56E-04	1.34E-02	4.81E-03	1.35E-04	4.13E-03	4.13E-03	2.72E-02	6.56E-04	1.34E-02	4.81E-03	1.35E-04	1.15E-04	4.13E-03	2.32E-02
6.55E-04	1.33E-02	4.81E-03	1.34E-04	4.13E-03	4.13E-03	2.72E-02	6.55E-04	1.33E-02	4.81E-03	1.34E-04	1.15E-04	4.13E-03	2.32E-02
6.48E-04	1.31E-02	4.78E-03	1.34E-04	4.08E-03	4.08E-03	2.68E-02	6.48E-04	1.31E-02	4.78E-03	1.34E-04	1.14E-04	4.08E-03	2.28E-02
6.42E-04	1.29E-02	4.76E-03	1.33E-04	4.04E-03	4.04E-03	2.65E-02	6.42E-04	1.29E-02	4.76E-03	1.33E-04	1.14E-04	4.04E-03	2.26E-02
6.34E-04	1.26E-02	4.73E-03	1.32E-04	3.99E-03	3.99E-03	2.61E-02	6.34E-04	1.26E-02	4.73E-03	1.32E-04	1.13E-04	3.99E-03	2.22E-02
6.28E-04	1.24E-02	4.71E-03	1.32E-04	3.95E-03	3.95E-03	2.58E-02	6.28E-04	1.24E-02	4.71E-03	1.32E-04	1.13E-04	3.95E-03	2.19E-02
6.23E-04	1.22E-02	4.68E-03	1.31E-04	3.91E-03	3.91E-03	2.54E-02	6.23E-04	1.22E-02	4.68E-03	1.31E-04	1.13E-04	3.91E-03	2.16E-02

6.18E-04	1.20E-02	4.66E-03	1.31E-04	3.87E-03	3.87E-03	2.52E-02	6.18E-04	1.20E-02	4.66E-03	1.31E-04	1.12E-04	3.87E-03	2.14E-02
6.11E-04	1.18E-02	4.63E-03	1.30E-04	3.83E-03	3.83E-03	2.48E-02	6.11E-04	1.18E-02	4.63E-03	1.30E-04	1.12E-04	3.83E-03	2.11E-02
6.04E-04	1.16E-02	4.60E-03	1.29E-04	3.78E-03	3.78E-03	2.45E-02	6.04E-04	1.16E-02	4.60E-03	1.29E-04	1.11E-04	3.78E-03	2.08E-02
6.00E-04	1.14E-02	4.58E-03	1.29E-04	3.75E-03	3.75E-03	2.42E-02	6.00E-04	1.14E-02	4.58E-03	1.29E-04	1.11E-04	3.75E-03	2.06E-02
5.93E-04	1.12E-02	4.55E-03	1.28E-04	3.70E-03	3.70E-03	2.39E-02	5.93E-04	1.12E-02	4.55E-03	1.28E-04	1.11E-04	3.70E-03	2.03E-02
5.89E-04	1.11E-02	4.53E-03	1.27E-04	3.67E-03	3.67E-03	2.36E-02	5.89E-04	1.11E-02	4.53E-03	1.27E-04	1.10E-04	3.67E-03	2.01E-02
5.83E-04	1.09E-02	4.50E-03	1.27E-04	3.63E-03	3.63E-03	2.33E-02	5.83E-04	1.09E-02	4.50E-03	1.27E-04	1.10E-04	3.63E-03	1.98E-02
5.77E-04	1.07E-02	4.47E-03	1.26E-04	3.58E-03	3.58E-03	2.30E-02	5.77E-04	1.07E-02	4.47E-03	1.26E-04	1.09E-04	3.58E-03	1.95E-02
5.71E-04	1.05E-02	4.45E-03	1.25E-04	3.55E-03	3.55E-03	2.27E-02	5.71E-04	1.05E-02	4.45E-03	1.25E-04	1.09E-04	3.55E-03	1.93E-02
5.64E-04	1.03E-02	4.41E-03	1.24E-04	3.49E-03	3.49E-03	2.23E-02	5.64E-04	1.03E-02	4.41E-03	1.24E-04	1.08E-04	3.49E-03	1.89E-02
5.60E-04	1.01E-02	4.38E-03	1.24E-04	3.46E-03	3.46E-03	2.21E-02	5.60E-04	1.01E-02	4.38E-03	1.24E-04	1.08E-04	3.46E-03	1.87E-02
5.57E-04	1.00E-02	4.37E-03	1.23E-04	3.44E-03	3.44E-03	2.20E-02	5.57E-04	1.00E-02	4.37E-03	1.23E-04	1.08E-04	3.44E-03	1.86E-02
5.50E-04	9.83E-03	4.34E-03	1.23E-04	3.40E-03	3.40E-03	2.16E-02	5.50E-04	9.83E-03	4.34E-03	1.23E-04	1.07E-04	3.40E-03	1.83E-02
7.37E-04	1.61E-02	4.97E-03	1.38E-04	4.57E-03	4.57E-03	3.11E-02	7.37E-04	1.61E-02	4.97E-03	1.38E-04	1.17E-04	4.57E-03	2.66E-02
7.27E-04	1.57E-02	4.94E-03	1.38E-04	4.51E-03	4.51E-03	3.05E-02	7.27E-04	1.57E-02	4.94E-03	1.38E-04	1.17E-04	4.51E-03	2.61E-02
7.16E-04	1.53E-02	4.91E-03	1.37E-04	4.44E-03	4.44E-03	2.99E-02	7.16E-04	1.53E-02	4.91E-03	1.37E-04	1.16E-04	4.44E-03	2.56E-02
7.07E-04	1.50E-02	4.88E-03	1.36E-04	4.39E-03	4.39E-03	2.95E-02	7.07E-04	1.50E-02	4.88E-03	1.36E-04	1.15E-04	4.39E-03	2.52E-02
7.04E-04	1.49E-02	4.87E-03	1.36E-04	4.37E-03	4.37E-03	2.93E-02	7.04E-04	1.49E-02	4.87E-03	1.36E-04	1.15E-04	4.37E-03	2.51E-02
7.03E-04	1.48E-02	4.86E-03	1.35E-04	4.36E-03	4.36E-03	2.92E-02	7.03E-04	1.48E-02	4.86E-03	1.35E-04	1.15E-04	4.36E-03	2.50E-02
6.87E-04	1.43E-02	4.82E-03	1.34E-04	4.27E-03	4.27E-03	2.84E-02	6.87E-04	1.43E-02	4.82E-03	1.34E-04	1.14E-04	4.27E-03	2.43E-02
6.83E-04	1.41E-02	4.80E-03	1.34E-04	4.24E-03	4.24E-03	2.82E-02	6.83E-04	1.41E-02	4.80E-03	1.34E-04	1.14E-04	4.24E-03	2.41E-02
6.72E-04	1.37E-02	4.76E-03	1.33E-04	4.17E-03	4.17E-03	2.77E-02	6.72E-04	1.37E-02	4.76E-03	1.33E-04	1.13E-04	4.17E-03	2.36E-02
6.71E-04	1.37E-02	4.76E-03	1.33E-04	4.16E-03	4.16E-03	2.76E-02	6.71E-04	1.37E-02	4.76E-03	1.33E-04	1.13E-04	4.16E-03	2.35E-02
6.64E-04	1.34E-02	4.74E-03	1.32E-04	4.12E-03	4.12E-03	2.72E-02	6.64E-04	1.34E-02	4.74E-03	1.32E-04	1.13E-04	4.12E-03	2.32E-02
6.60E-04	1.33E-02	4.72E-03	1.31E-04	4.09E-03	4.09E-03	2.69E-02	6.60E-04	1.33E-02	4.72E-03	1.31E-04	1.12E-04	4.09E-03	2.30E-02
6.51E-04	1.30E-02	4.69E-03	1.31E-04	4.03E-03	4.03E-03	2.65E-02	6.51E-04	1.30E-02	4.69E-03	1.31E-04	1.12E-04	4.03E-03	2.26E-02
6.46E-04	1.28E-02	4.67E-03	1.30E-04	3.99E-03	3.99E-03	2.62E-02	6.46E-04	1.28E-02	4.67E-03	1.30E-04	1.12E-04	3.99E-03	2.23E-02
6.39E-04	1.25E-02	4.64E-03	1.30E-04	3.95E-03	3.95E-03	2.59E-02	6.39E-04	1.25E-02	4.64E-03	1.30E-04	1.11E-04	3.95E-03	2.20E-02
6.34E-04	1.24E-02	4.63E-03	1.29E-04	3.92E-03	3.92E-03	2.56E-02	6.34E-04	1.24E-02	4.63E-03	1.29E-04	1.11E-04	3.92E-03	2.18E-02
6.26E-04	1.21E-02	4.59E-03	1.28E-04	3.87E-03	3.87E-03	2.52E-02	6.26E-04	1.21E-02	4.59E-03	1.28E-04	1.10E-04	3.87E-03	2.14E-02
6.20E-04	1.19E-02	4.57E-03	1.28E-04	3.82E-03	3.82E-03	2.49E-02	6.20E-04	1.19E-02	4.57E-03	1.28E-04	1.10E-04	3.82E-03	2.11E-02
6.14E-04	1.17E-02	4.55E-03	1.27E-04	3.79E-03	3.79E-03	2.46E-02	6.14E-04	1.17E-02	4.55E-03	1.27E-04	1.10E-04	3.79E-03	2.09E-02
6.08E-04	1.15E-02	4.52E-03	1.26E-04	3.74E-03	3.74E-03	2.42E-02	6.08E-04	1.15E-02	4.52E-03	1.26E-04	1.09E-04	3.74E-03	2.06E-02
6.03E-04	1.13E-02	4.50E-03	1.26E-04	3.71E-03	3.71E-03	2.40E-02	6.03E-04	1.13E-02	4.50E-03	1.26E-04	1.09E-04	3.71E-03	2.04E-02
5.98E-04	1.12E-02	4.48E-03	1.25E-04	3.67E-03	3.67E-03	2.37E-02	5.98E-04	1.12E-02	4.48E-03	1.25E-04	1.09E-04	3.67E-03	2.01E-02
5.92E-04	1.09E-02	4.45E-03	1.25E-04	3.63E-03	3.63E-03	2.34E-02	5.92E-04	1.09E-02	4.45E-03	1.25E-04	1.08E-04	3.63E-03	1.98E-02
5.85E-04	1.07E-02	4.42E-03	1.24E-04	3.58E-03	3.58E-03	2.30E-02	5.85E-04	1.07E-02	4.42E-03	1.24E-04	1.08E-04	3.58E-03	1.96E-02
5.78E-04	1.05E-02	4.39E-03	1.23E-04	3.53E-03	3.53E-03	2.27E-02	5.78E-04	1.05E-02	4.39E-03	1.23E-04	1.07E-04	3.53E-03	1.93E-02
5.74E-04	1.04E-02	4.37E-03	1.23E-04	3.51E-03	3.51E-03	2.25E-02	5.74E-04	1.04E-02	4.37E-03	1.23E-04	1.07E-04	3.51E-03	1.91E-02
5.70E-04	1.03E-02	4.35E-03	1.22E-04	3.48E-03	3.48E-03	2.23E-02	5.70E-04	1.03E-02	4.35E-03	1.22E-04	1.07E-04	3.48E-03	1.89E-02
5.64E-04	1.01E-02	4.32E-03	1.21E-04	3.43E-03	3.43E-03	2.19E-02	5.64E-04	1.01E-02	4.32E-03	1.21E-04	1.06E-04	3.43E-03	1.86E-02
7.54E-04	1.64E-02	4.90E-03	1.36E-04	4.58E-03	4.58E-03	3.14E-02	7.54E-04	1.64E-02	4.90E-03	1.36E-04	1.15E-04	4.58E-03	2.69E-02
7.39E-04	1.59E-02	4.86E-03	1.35E-04	4.49E-03	4.49E-03	3.06E-02	7.39E-04	1.59E-02	4.86E-03	1.35E-04	1.15E-04	4.49E-03	2.62E-02
7.33E-04	1.57E-02	4.85E-03	1.35E-04	4.47E-03	4.47E-03	3.03E-02	7.33E-04	1.57E-02	4.85E-03	1.35E-04	1.14E-04	4.47E-03	2.60E-02
7.25E-04	1.54E-02	4.82E-03	1.34E-04	4.42E-03	4.42E-03	2.99E-02	7.25E-04	1.54E-02	4.82E-03	1.34E-04	1.14E-04	4.42E-03	2.56E-02
7.20E-04	1.52E-02	4.81E-03	1.34E-04	4.39E-03	4.39E-03	2.96E-02	7.20E-04	1.52E-02	4.81E-03	1.34E-04	1.14E-04	4.39E-03	2.53E-02
7.21E-04	1.52E-02	4.80E-03	1.33E-04	4.39E-03	4.39E-03	2.96E-02	7.21E-04	1.52E-02	4.80E-03	1.33E-04	1.13E-04	4.39E-03	2.53E-02
7.04E-04	1.46E-02	4.76E-03	1.32E-04	4.29E-03	4.29E-03	2.88E-02	7.04E-04	1.46E-02	4.76E-03	1.32E-04	1.13E-04	4.29E-03	2.46E-02
7.03E-04	1.45E-02	4.75E-03	1.32E-04	4.29E-03	4.29E-03	2.87E-02	7.03E-04	1.45E-02	4.75E-03	1.32E-04	1.12E-04	4.29E-03	2.45E-02
6.87E-04	1.40E-02	4.71E-03	1.31E-04	4.19E-03	4.19E-03	2.79E-02	6.87E-04	1.40E-02	4.71E-03	1.31E-04	1.12E-04	4.19E-03	2.39E-02
6.85E-04	1.39E-02	4.70E-03	1.31E-04	4.17E-03	4.17E-03	2.78E-02	6.85E-04	1.39E-02	4.70E-03	1.31E-04	1.11E-04	4.17E-03	2.37E-02
6.82E-04	1.38E-02	4.69E-03	1.30E-04	4.16E-03	4.16E-03	2.76E-02	6.82E-04	1.38E-02	4.69E-03	1.30E-04	1.11E-04	4.16E-03	2.36E-02
6.77E-04	1.36E-02	4.67E-03	1.30E-04	4.13E-03	4.13E-03	2.73E-02	6.77E-04	1.36E-02	4.67E-03	1.30E-04	1.11E-04	4.13E-03	2.33E-02
6.68E-04	1.33E-02	4.64E-03	1.29E-04	4.07E-03	4.07E-03	2.69E-02	6.68E-04	1.33E-02	4.64E-03	1.29E-04	1.10E-04	4.07E-03	2.29E-02

6.63E-04	1.31E-02	4.62E-03	1.29E-04	4.04E-03	4.04E-03	2.66E-02	6.63E-04	1.31E-02	4.62E-03	1.29E-04	1.10E-04	4.04E-03	2.27E-02
6.56E-04	1.29E-02	4.60E-03	1.28E-04	3.99E-03	3.99E-03	2.62E-02	6.56E-04	1.29E-02	4.60E-03	1.28E-04	1.10E-04	3.99E-03	2.23E-02
6.49E-04	1.26E-02	4.58E-03	1.27E-04	3.95E-03	3.95E-03	2.59E-02	6.49E-04	1.26E-02	4.58E-03	1.27E-04	1.09E-04	3.95E-03	2.20E-02
6.41E-04	1.24E-02	4.55E-03	1.27E-04	3.89E-03	3.89E-03	2.55E-02	6.41E-04	1.24E-02	4.55E-03	1.27E-04	1.09E-04	3.89E-03	2.17E-02
6.34E-04	1.21E-02	4.52E-03	1.26E-04	3.85E-03	3.85E-03	2.51E-02	6.34E-04	1.21E-02	4.52E-03	1.26E-04	1.08E-04	3.85E-03	2.14E-02
6.29E-04	1.20E-02	4.50E-03	1.25E-04	3.82E-03	3.82E-03	2.49E-02	6.29E-04	1.20E-02	4.50E-03	1.25E-04	1.08E-04	3.82E-03	2.12E-02
6.21E-04	1.17E-02	4.47E-03	1.25E-04	3.76E-03	3.76E-03	2.44E-02	6.21E-04	1.17E-02	4.47E-03	1.25E-04	1.08E-04	3.76E-03	2.08E-02
6.17E-04	1.16E-02	4.46E-03	1.24E-04	3.74E-03	3.74E-03	2.42E-02	6.17E-04	1.16E-02	4.46E-03	1.24E-04	1.07E-04	3.74E-03	2.06E-02
6.11E-04	1.14E-02	4.43E-03	1.24E-04	3.69E-03	3.69E-03	2.39E-02	6.11E-04	1.14E-02	4.43E-03	1.24E-04	1.07E-04	3.69E-03	2.03E-02
6.04E-04	1.11E-02	4.40E-03	1.23E-04	3.65E-03	3.65E-03	2.36E-02	6.04E-04	1.11E-02	4.40E-03	1.23E-04	1.07E-04	3.65E-03	2.00E-02
5.98E-04	1.09E-02	4.38E-03	1.22E-04	3.61E-03	3.61E-03	2.32E-02	5.98E-04	1.09E-02	4.38E-03	1.22E-04	1.06E-04	3.61E-03	1.97E-02
5.93E-04	1.08E-02	4.36E-03	1.22E-04	3.58E-03	3.58E-03	2.30E-02	5.93E-04	1.08E-02	4.36E-03	1.22E-04	1.06E-04	3.58E-03	1.96E-02
5.89E-04	1.07E-02	4.34E-03	1.21E-04	3.55E-03	3.55E-03	2.28E-02	5.89E-04	1.07E-02	4.34E-03	1.21E-04	1.06E-04	3.55E-03	1.94E-02
5.83E-04	1.05E-02	4.32E-03	1.21E-04	3.51E-03	3.51E-03	2.25E-02	5.83E-04	1.05E-02	4.32E-03	1.21E-04	1.05E-04	3.51E-03	1.91E-02
5.77E-04	1.03E-02	4.29E-03	1.20E-04	3.46E-03	3.46E-03	2.22E-02	5.77E-04	1.03E-02	4.29E-03	1.20E-04	1.05E-04	3.46E-03	1.88E-02
7.73E-04	1.68E-02	4.84E-03	1.34E-04	4.60E-03	4.60E-03	3.17E-02	7.73E-04	1.68E-02	4.84E-03	1.34E-04	1.14E-04	4.60E-03	2.73E-02
7.62E-04	1.64E-02	4.81E-03	1.33E-04	4.54E-03	4.54E-03	3.12E-02	7.62E-04	1.64E-02	4.81E-03	1.33E-04	1.14E-04	4.54E-03	2.67E-02
7.52E-04	1.60E-02	4.78E-03	1.33E-04	4.48E-03	4.48E-03	3.07E-02	7.52E-04	1.60E-02	4.78E-03	1.33E-04	1.13E-04	4.48E-03	2.63E-02
7.43E-04	1.57E-02	4.76E-03	1.32E-04	4.44E-03	4.44E-03	3.02E-02	7.43E-04	1.57E-02	4.76E-03	1.32E-04	1.12E-04	4.44E-03	2.59E-02
7.38E-04	1.55E-02	4.74E-03	1.32E-04	4.41E-03	4.41E-03	2.99E-02	7.38E-04	1.55E-02	4.74E-03	1.32E-04	1.12E-04	4.41E-03	2.56E-02
7.41E-04	1.55E-02	4.75E-03	1.31E-04	4.42E-03	4.42E-03	3.00E-02	7.41E-04	1.55E-02	4.75E-03	1.31E-04	1.12E-04	4.42E-03	2.57E-02
7.25E-04	1.50E-02	4.71E-03	1.30E-04	4.33E-03	4.33E-03	2.93E-02	7.25E-04	1.50E-02	4.71E-03	1.30E-04	1.11E-04	4.33E-03	2.50E-02
7.24E-04	1.49E-02	4.70E-03	1.30E-04	4.32E-03	4.32E-03	2.91E-02	7.24E-04	1.49E-02	4.70E-03	1.30E-04	1.11E-04	4.32E-03	2.49E-02
7.09E-04	1.45E-02	4.66E-03	1.29E-04	4.24E-03	4.24E-03	2.85E-02	7.09E-04	1.45E-02	4.66E-03	1.29E-04	1.10E-04	4.24E-03	2.43E-02
7.05E-04	1.43E-02	4.65E-03	1.29E-04	4.21E-03	4.21E-03	2.82E-02	7.05E-04	1.43E-02	4.65E-03	1.29E-04	1.10E-04	4.21E-03	2.41E-02
6.99E-04	1.41E-02	4.63E-03	1.28E-04	4.18E-03	4.18E-03	2.79E-02	6.99E-04	1.41E-02	4.63E-03	1.28E-04	1.10E-04	4.18E-03	2.38E-02
6.95E-04	1.39E-02	4.62E-03	1.28E-04	4.16E-03	4.16E-03	2.77E-02	6.95E-04	1.39E-02	4.62E-03	1.28E-04	1.09E-04	4.16E-03	2.36E-02
6.86E-04	1.36E-02	4.59E-03	1.27E-04	4.10E-03	4.10E-03	2.72E-02	6.86E-04	1.36E-02	4.59E-03	1.27E-04	1.09E-04	4.10E-03	2.32E-02
6.78E-04	1.33E-02	4.57E-03	1.27E-04	4.05E-03	4.05E-03	2.68E-02	6.78E-04	1.33E-02	4.57E-03	1.27E-04	1.09E-04	4.05E-03	2.29E-02
6.71E-04	1.31E-02	4.54E-03	1.26E-04	4.01E-03	4.01E-03	2.64E-02	6.71E-04	1.31E-02	4.54E-03	1.26E-04	1.08E-04	4.01E-03	2.25E-02
6.65E-04	1.29E-02	4.52E-03	1.25E-04	3.97E-03	3.97E-03	2.61E-02	6.65E-04	1.29E-02	4.52E-03	1.25E-04	1.08E-04	3.97E-03	2.23E-02
6.56E-04	1.26E-02	4.50E-03	1.25E-04	3.92E-03	3.92E-03	2.57E-02	6.56E-04	1.26E-02	4.50E-03	1.25E-04	1.07E-04	3.92E-03	2.19E-02
6.48E-04	1.24E-02	4.47E-03	1.24E-04	3.87E-03	3.87E-03	2.53E-02	6.48E-04	1.24E-02	4.47E-03	1.24E-04	1.07E-04	3.87E-03	2.16E-02
6.41E-04	1.21E-02	4.45E-03	1.24E-04	3.82E-03	3.82E-03	2.50E-02	6.41E-04	1.21E-02	4.45E-03	1.24E-04	1.07E-04	3.82E-03	2.12E-02
6.35E-04	1.19E-02	4.42E-03	1.23E-04	3.78E-03	3.78E-03	2.46E-02	6.35E-04	1.19E-02	4.42E-03	1.23E-04	1.06E-04	3.78E-03	2.10E-02
6.32E-04	1.18E-02	4.41E-03	1.23E-04	3.76E-03	3.76E-03	2.45E-02	6.32E-04	1.18E-02	4.41E-03	1.23E-04	1.06E-04	3.76E-03	2.08E-02
6.26E-04	1.16E-02	4.39E-03	1.22E-04	3.72E-03	3.72E-03	2.42E-02	6.26E-04	1.16E-02	4.39E-03	1.22E-04	1.06E-04	3.72E-03	2.06E-02
6.19E-04	1.14E-02	4.37E-03	1.22E-04	3.68E-03	3.68E-03	2.38E-02	6.19E-04	1.14E-02	4.37E-03	1.22E-04	1.05E-04	3.68E-03	2.03E-02
6.13E-04	1.12E-02	4.34E-03	1.21E-04	3.64E-03	3.64E-03	2.35E-02	6.13E-04	1.12E-02	4.34E-03	1.21E-04	1.05E-04	3.64E-03	2.00E-02
6.06E-04	1.10E-02	4.32E-03	1.20E-04	3.60E-03	3.60E-03	2.32E-02	6.06E-04	1.10E-02	4.32E-03	1.20E-04	1.04E-04	3.60E-03	1.97E-02
6.04E-04	1.09E-02	4.31E-03	1.20E-04	3.58E-03	3.58E-03	2.31E-02	6.04E-04	1.09E-02	4.31E-03	1.20E-04	1.04E-04	3.58E-03	1.96E-02
5.97E-04	1.07E-02	4.28E-03	1.19E-04	3.53E-03	3.53E-03	2.27E-02	5.97E-04	1.07E-02	4.28E-03	1.19E-04	1.04E-04	3.53E-03	1.93E-02
5.90E-04	1.04E-02	4.25E-03	1.19E-04	3.49E-03	3.49E-03	2.24E-02	5.90E-04	1.04E-02	4.25E-03	1.19E-04	1.03E-04	3.49E-03	1.90E-02
7.93E-04	1.71E-02	4.77E-03	1.32E-04	4.62E-03	4.62E-03	3.20E-02	7.93E-04	1.71E-02	4.77E-03	1.32E-04	1.13E-04	4.62E-03	2.75E-02
7.83E-04	1.68E-02	4.75E-03	1.31E-04	4.57E-03	4.57E-03	3.16E-02	7.83E-04	1.68E-02	4.75E-03	1.31E-04	1.12E-04	4.57E-03	2.71E-02
7.70E-04	1.63E-02	4.72E-03	1.31E-04	4.49E-03	4.49E-03	3.09E-02	7.70E-04	1.63E-02	4.72E-03	1.31E-04	1.12E-04	4.49E-03	2.65E-02
7.63E-04	1.60E-02	4.70E-03	1.30E-04	4.46E-03	4.46E-03	3.06E-02	7.63E-04	1.60E-02	4.70E-03	1.30E-04	1.11E-04	4.46E-03	2.62E-02
7.53E-04	1.57E-02	4.67E-03	1.29E-04	4.40E-03	4.40E-03	3.01E-02	7.53E-04	1.57E-02	4.67E-03	1.29E-04	1.11E-04	4.40E-03	2.58E-02
7.60E-04	1.58E-02	4.68E-03	1.29E-04	4.44E-03	4.44E-03	3.03E-02	7.60E-04	1.58E-02	4.68E-03	1.29E-04	1.11E-04	4.44E-03	2.60E-02
7.49E-04	1.55E-02	4.66E-03	1.29E-04	4.38E-03	4.38E-03	2.97E-02	7.49E-04	1.55E-02	4.66E-03	1.29E-04	1.10E-04	4.38E-03	2.55E-02
7.43E-04	1.52E-02	4.64E-03	1.28E-04	4.34E-03	4.34E-03	2.94E-02	7.43E-04	1.52E-02	4.64E-03	1.28E-04	1.10E-04	4.34E-03	2.52E-02
7.23E-04	1.46E-02	4.59E-03	1.27E-04	4.23E-03	4.23E-03	2.85E-02	7.23E-04	1.46E-02	4.59E-03	1.27E-04	1.09E-04	4.23E-03	2.44E-02
7.23E-04	1.46E-02	4.59E-03	1.27E-04	4.24E-03	4.24E-03	2.85E-02	7.23E-04	1.46E-02	4.59E-03	1.27E-04	1.09E-04	4.24E-03	2.44E-02
7.19E-04	1.44E-02	4.57E-03	1.26E-04	4.21E-03	4.21E-03	2.82E-02	7.19E-04	1.44E-02	4.57E-03	1.26E-04	1.09E-04	4.21E-03	2.41E-02

7.15E-04	1.42E-02	4.56E-03	1.26E-04	4.18E-03	4.18E-03	2.80E-02	7.15E-04	1.42E-02	4.56E-03	1.26E-04	1.08E-04	4.18E-03	2.39E-02
6.97E-04	1.37E-02	4.52E-03	1.25E-04	4.09E-03	4.09E-03	2.72E-02	6.97E-04	1.37E-02	4.52E-03	1.25E-04	1.07E-04	4.09E-03	2.32E-02
6.93E-04	1.35E-02	4.51E-03	1.25E-04	4.06E-03	4.06E-03	2.70E-02	6.93E-04	1.35E-02	4.51E-03	1.25E-04	1.07E-04	4.06E-03	2.30E-02
6.85E-04	1.33E-02	4.48E-03	1.24E-04	4.01E-03	4.01E-03	2.66E-02	6.85E-04	1.33E-02	4.48E-03	1.24E-04	1.07E-04	4.01E-03	2.27E-02
6.81E-04	1.31E-02	4.47E-03	1.24E-04	3.99E-03	3.99E-03	2.64E-02	6.81E-04	1.31E-02	4.47E-03	1.24E-04	1.06E-04	3.99E-03	2.25E-02
6.73E-04	1.28E-02	4.45E-03	1.23E-04	3.94E-03	3.94E-03	2.60E-02	6.73E-04	1.28E-02	4.45E-03	1.23E-04	1.06E-04	3.94E-03	2.21E-02
6.65E-04	1.26E-02	4.42E-03	1.23E-04	3.89E-03	3.89E-03	2.56E-02	6.65E-04	1.26E-02	4.42E-03	1.23E-04	1.06E-04	3.89E-03	2.18E-02
6.61E-04	1.24E-02	4.41E-03	1.22E-04	3.86E-03	3.86E-03	2.54E-02	6.61E-04	1.24E-02	4.41E-03	1.22E-04	1.05E-04	3.86E-03	2.16E-02
6.54E-04	1.22E-02	4.38E-03	1.22E-04	3.82E-03	3.82E-03	2.50E-02	6.54E-04	1.22E-02	4.38E-03	1.22E-04	1.05E-04	3.82E-03	2.13E-02
6.48E-04	1.20E-02	4.37E-03	1.21E-04	3.79E-03	3.79E-03	2.47E-02	6.48E-04	1.20E-02	4.37E-03	1.21E-04	1.05E-04	3.79E-03	2.10E-02
6.38E-04	1.17E-02	4.33E-03	1.20E-04	3.72E-03	3.72E-03	2.42E-02	6.38E-04	1.17E-02	4.33E-03	1.20E-04	1.04E-04	3.72E-03	2.06E-02
6.36E-04	1.16E-02	4.32E-03	1.20E-04	3.71E-03	3.71E-03	2.41E-02	6.36E-04	1.16E-02	4.32E-03	1.20E-04	1.04E-04	3.71E-03	2.05E-02
6.29E-04	1.14E-02	4.30E-03	1.19E-04	3.67E-03	3.67E-03	2.38E-02	6.29E-04	1.14E-02	4.30E-03	1.19E-04	1.03E-04	3.67E-03	2.02E-02
6.23E-04	1.12E-02	4.28E-03	1.19E-04	3.63E-03	3.63E-03	2.35E-02	6.23E-04	1.12E-02	4.28E-03	1.19E-04	1.03E-04	3.63E-03	2.00E-02
6.20E-04	1.11E-02	4.27E-03	1.18E-04	3.61E-03	3.61E-03	2.33E-02	6.20E-04	1.11E-02	4.27E-03	1.18E-04	1.03E-04	3.61E-03	1.98E-02
6.13E-04	1.09E-02	4.24E-03	1.18E-04	3.56E-03	3.56E-03	2.30E-02	6.13E-04	1.09E-02	4.24E-03	1.18E-04	1.03E-04	3.56E-03	1.95E-02
6.06E-04	1.07E-02	4.22E-03	1.17E-04	3.52E-03	3.52E-03	2.26E-02	6.06E-04	1.07E-02	4.22E-03	1.17E-04	1.02E-04	3.52E-03	1.92E-02
7.92E-04	1.66E-02	4.66E-03	1.28E-04	4.51E-03	4.51E-03	3.12E-02	7.92E-04	1.66E-02	4.66E-03	1.28E-04	1.10E-04	4.51E-03	2.68E-02
7.83E-04	1.63E-02	4.63E-03	1.28E-04	4.47E-03	4.47E-03	3.08E-02	7.83E-04	1.63E-02	4.63E-03	1.28E-04	1.10E-04	4.47E-03	2.64E-02
7.74E-04	1.60E-02	4.61E-03	1.27E-04	4.42E-03	4.42E-03	3.04E-02	7.74E-04	1.60E-02	4.61E-03	1.27E-04	1.09E-04	4.42E-03	2.60E-02
7.75E-04	1.59E-02	4.61E-03	1.27E-04	4.42E-03	4.42E-03	3.03E-02	7.75E-04	1.59E-02	4.61E-03	1.27E-04	1.09E-04	4.42E-03	2.60E-02
7.70E-04	1.57E-02	4.59E-03	1.26E-04	4.39E-03	4.39E-03	3.00E-02	7.70E-04	1.57E-02	4.59E-03	1.26E-04	1.09E-04	4.39E-03	2.57E-02
7.63E-04	1.55E-02	4.58E-03	1.26E-04	4.36E-03	4.36E-03	2.97E-02	7.63E-04	1.55E-02	4.58E-03	1.26E-04	1.08E-04	4.36E-03	2.54E-02
7.49E-04	1.50E-02	4.55E-03	1.25E-04	4.28E-03	4.28E-03	2.90E-02	7.49E-04	1.50E-02	4.55E-03	1.25E-04	1.08E-04	4.28E-03	2.49E-02
7.43E-04	1.48E-02	4.53E-03	1.25E-04	4.25E-03	4.25E-03	2.87E-02	7.43E-04	1.48E-02	4.53E-03	1.25E-04	1.07E-04	4.25E-03	2.46E-02
7.41E-04	1.47E-02	4.52E-03	1.24E-04	4.24E-03	4.24E-03	2.86E-02	7.41E-04	1.47E-02	4.52E-03	1.24E-04	1.07E-04	4.24E-03	2.44E-02
7.39E-04	1.46E-02	4.51E-03	1.24E-04	4.22E-03	4.22E-03	2.84E-02	7.39E-04	1.46E-02	4.51E-03	1.24E-04	1.07E-04	4.22E-03	2.43E-02
7.27E-04	1.42E-02	4.48E-03	1.23E-04	4.16E-03	4.16E-03	2.79E-02	7.27E-04	1.42E-02	4.48E-03	1.23E-04	1.06E-04	4.16E-03	2.38E-02
7.16E-04	1.39E-02	4.46E-03	1.23E-04	4.10E-03	4.10E-03	2.74E-02	7.16E-04	1.39E-02	4.46E-03	1.23E-04	1.06E-04	4.10E-03	2.34E-02
7.06E-04	1.36E-02	4.43E-03	1.22E-04	4.04E-03	4.04E-03	2.69E-02	7.06E-04	1.36E-02	4.43E-03	1.22E-04	1.06E-04	4.04E-03	2.30E-02
6.99E-04	1.33E-02	4.41E-03	1.22E-04	4.00E-03	4.00E-03	2.65E-02	6.99E-04	1.33E-02	4.41E-03	1.22E-04	1.05E-04	4.00E-03	2.27E-02
6.89E-04	1.30E-02	4.39E-03	1.21E-04	3.95E-03	3.95E-03	2.61E-02	6.89E-04	1.30E-02	4.39E-03	1.21E-04	1.05E-04	3.95E-03	2.22E-02
6.81E-04	1.28E-02	4.37E-03	1.21E-04	3.91E-03	3.91E-03	2.58E-02	6.81E-04	1.28E-02	4.37E-03	1.21E-04	1.04E-04	3.91E-03	2.20E-02
6.74E-04	1.25E-02	4.35E-03	1.20E-04	3.86E-03	3.86E-03	2.54E-02	6.74E-04	1.25E-02	4.35E-03	1.20E-04	1.04E-04	3.86E-03	2.16E-02
6.69E-04	1.23E-02	4.33E-03	1.20E-04	3.83E-03	3.83E-03	2.51E-02	6.69E-04	1.23E-02	4.33E-03	1.20E-04	1.03E-04	3.83E-03	2.14E-02
6.64E-04	1.22E-02	4.31E-03	1.19E-04	3.80E-03	3.80E-03	2.49E-02	6.64E-04	1.22E-02	4.31E-03	1.19E-04	1.03E-04	3.80E-03	2.12E-02
6.59E-04	1.20E-02	4.30E-03	1.19E-04	3.77E-03	3.77E-03	2.46E-02	6.59E-04	1.20E-02	4.30E-03	1.19E-04	1.03E-04	3.77E-03	2.09E-02
6.53E-04	1.18E-02	4.28E-03	1.18E-04	3.73E-03	3.73E-03	2.43E-02	6.53E-04	1.18E-02	4.28E-03	1.18E-04	1.02E-04	3.73E-03	2.07E-02
6.46E-04	1.16E-02	4.26E-03	1.18E-04	3.69E-03	3.69E-03	2.40E-02	6.46E-04	1.16E-02	4.26E-03	1.18E-04	1.02E-04	3.69E-03	2.04E-02
6.41E-04	1.14E-02	4.24E-03	1.17E-04	3.66E-03	3.66E-03	2.38E-02	6.41E-04	1.14E-02	4.24E-03	1.17E-04	1.02E-04	3.66E-03	2.02E-02
6.36E-04	1.13E-02	4.22E-03	1.17E-04	3.63E-03	3.63E-03	2.35E-02	6.36E-04	1.13E-02	4.22E-03	1.17E-04	1.02E-04	3.63E-03	2.00E-02
6.29E-04	1.11E-02	4.20E-03	1.16E-04	3.59E-03	3.59E-03	2.32E-02	6.29E-04	1.11E-02	4.20E-03	1.16E-04	1.01E-04	3.59E-03	1.97E-02
6.21E-04	1.08E-02	4.18E-03	1.16E-04	3.54E-03	3.54E-03	2.28E-02	6.21E-04	1.08E-02	4.18E-03	1.16E-04	1.01E-04	3.54E-03	1.94E-02
8.05E-04	1.67E-02	4.58E-03	1.26E-04	4.49E-03	4.49E-03	3.12E-02	8.05E-04	1.67E-02	4.58E-03	1.26E-04	1.08E-04	4.49E-03	2.68E-02
8.05E-04	1.66E-02	4.57E-03	1.26E-04	4.48E-03	4.48E-03	3.10E-02	8.05E-04	1.66E-02	4.57E-03	1.26E-04	1.08E-04	4.48E-03	2.67E-02
7.91E-04	1.61E-02	4.55E-03	1.25E-04	4.41E-03	4.41E-03	3.04E-02	7.91E-04	1.61E-02	4.55E-03	1.25E-04	1.08E-04	4.41E-03	2.61E-02
7.87E-04	1.59E-02	4.53E-03	1.25E-04	4.39E-03	4.39E-03	3.02E-02	7.87E-04	1.59E-02	4.53E-03	1.25E-04	1.07E-04	4.39E-03	2.59E-02
7.87E-04	1.59E-02	4.52E-03	1.24E-04	4.38E-03	4.38E-03	3.01E-02	7.87E-04	1.59E-02	4.52E-03	1.24E-04	1.07E-04	4.38E-03	2.58E-02
7.83E-04	1.57E-02	4.51E-03	1.24E-04	4.35E-03	4.35E-03	2.98E-02	7.83E-04	1.57E-02	4.51E-03	1.24E-04	1.07E-04	4.35E-03	2.55E-02
7.69E-04	1.53E-02	4.49E-03	1.23E-04	4.29E-03	4.29E-03	2.92E-02	7.69E-04	1.53E-02	4.49E-03	1.23E-04	1.06E-04	4.29E-03	2.50E-02
7.63E-04	1.50E-02	4.47E-03	1.23E-04	4.26E-03	4.26E-03	2.89E-02	7.63E-04	1.50E-02	4.47E-03	1.23E-04	1.06E-04	4.26E-03	2.48E-02
7.59E-04	1.48E-02	4.45E-03	1.22E-04	4.23E-03	4.23E-03	2.86E-02	7.59E-04	1.48E-02	4.45E-03	1.22E-04	1.05E-04	4.23E-03	2.45E-02
7.63E-04	1.49E-02	4.45E-03	1.22E-04	4.25E-03	4.25E-03	2.87E-02	7.63E-04	1.49E-02	4.45E-03	1.22E-04	1.05E-04	4.25E-03	2.46E-02
7.40E-04	1.42E-02	4.41E-03	1.21E-04	4.14E-03	4.14E-03	2.78E-02	7.40E-04	1.42E-02	4.41E-03	1.21E-04	1.05E-04	4.14E-03	2.38E-02

7.34E-04	1.40E-02	4.40E-03	1.21E-04	4.10E-03	4.10E-03	2.75E-02	7.34E-04	1.40E-02	4.40E-03	1.21E-04	1.04E-04	4.10E-03	2.35E-02
7.24E-04	1.37E-02	4.37E-03	1.20E-04	4.05E-03	4.05E-03	2.70E-02	7.24E-04	1.37E-02	4.37E-03	1.20E-04	1.04E-04	4.05E-03	2.31E-02
7.15E-04	1.34E-02	4.35E-03	1.20E-04	4.00E-03	4.00E-03	2.66E-02	7.15E-04	1.34E-02	4.35E-03	1.20E-04	1.04E-04	4.00E-03	2.27E-02
7.05E-04	1.31E-02	4.33E-03	1.19E-04	3.95E-03	3.95E-03	2.62E-02	7.05E-04	1.31E-02	4.33E-03	1.19E-04	1.03E-04	3.95E-03	2.23E-02
7.00E-04	1.29E-02	4.31E-03	1.19E-04	3.92E-03	3.92E-03	2.59E-02	7.00E-04	1.29E-02	4.31E-03	1.19E-04	1.03E-04	3.92E-03	2.21E-02
6.93E-04	1.27E-02	4.29E-03	1.18E-04	3.88E-03	3.88E-03	2.56E-02	6.93E-04	1.27E-02	4.29E-03	1.18E-04	1.03E-04	3.88E-03	2.18E-02
6.86E-04	1.25E-02	4.28E-03	1.18E-04	3.84E-03	3.84E-03	2.53E-02	6.86E-04	1.25E-02	4.28E-03	1.18E-04	1.02E-04	3.84E-03	2.15E-02
6.80E-04	1.23E-02	4.26E-03	1.18E-04	3.81E-03	3.81E-03	2.50E-02	6.80E-04	1.23E-02	4.26E-03	1.18E-04	1.02E-04	3.81E-03	2.13E-02
6.76E-04	1.22E-02	4.25E-03	1.17E-04	3.78E-03	3.78E-03	2.48E-02	6.76E-04	1.22E-02	4.25E-03	1.17E-04	1.02E-04	3.78E-03	2.11E-02
6.70E-04	1.20E-02	4.23E-03	1.17E-04	3.74E-03	3.74E-03	2.44E-02	6.70E-04	1.20E-02	4.23E-03	1.17E-04	1.01E-04	3.74E-03	2.08E-02
6.60E-04	1.17E-02	4.20E-03	1.16E-04	3.69E-03	3.69E-03	2.40E-02	6.60E-04	1.17E-02	4.20E-03	1.16E-04	1.01E-04	3.69E-03	2.05E-02
6.56E-04	1.16E-02	4.19E-03	1.16E-04	3.67E-03	3.67E-03	2.38E-02	6.56E-04	1.16E-02	4.19E-03	1.16E-04	1.00E-04	3.67E-03	2.03E-02
6.52E-04	1.14E-02	4.18E-03	1.15E-04	3.64E-03	3.64E-03	2.36E-02	6.52E-04	1.14E-02	4.18E-03	1.15E-04	1.00E-04	3.64E-03	2.01E-02
6.44E-04	1.12E-02	4.15E-03	1.15E-04	3.59E-03	3.59E-03	2.33E-02	6.44E-04	1.12E-02	4.15E-03	1.15E-04	9.98E-05	3.59E-03	1.98E-02
6.38E-04	1.10E-02	4.13E-03	1.14E-04	3.56E-03	3.56E-03	2.30E-02	6.38E-04	1.10E-02	4.13E-03	1.14E-04	9.95E-05	3.56E-03	1.95E-02
7.89E-04	1.51E-02	4.42E-03	1.20E-04	4.26E-03	4.26E-03	2.90E-02	7.89E-04	1.51E-02	4.42E-03	1.20E-04	1.03E-04	4.26E-03	2.48E-02
7.63E-04	1.45E-02	4.36E-03	1.19E-04	4.15E-03	4.15E-03	2.80E-02	7.63E-04	1.45E-02	4.36E-03	1.19E-04	1.03E-04	4.15E-03	2.39E-02
7.54E-04	1.42E-02	4.34E-03	1.19E-04	4.10E-03	4.10E-03	2.76E-02	7.54E-04	1.42E-02	4.34E-03	1.19E-04	1.03E-04	4.10E-03	2.36E-02
7.44E-04	1.39E-02	4.32E-03	1.19E-04	4.06E-03	4.06E-03	2.72E-02	7.44E-04	1.39E-02	4.32E-03	1.19E-04	1.03E-04	4.06E-03	2.32E-02
7.34E-04	1.36E-02	4.29E-03	1.18E-04	4.01E-03	4.01E-03	2.67E-02	7.34E-04	1.36E-02	4.29E-03	1.18E-04	1.02E-04	4.01E-03	2.28E-02
7.27E-04	1.33E-02	4.28E-03	1.18E-04	3.97E-03	3.97E-03	2.64E-02	7.27E-04	1.33E-02	4.28E-03	1.18E-04	1.02E-04	3.97E-03	2.25E-02
7.20E-04	1.31E-02	4.26E-03	1.17E-04	3.93E-03	3.93E-03	2.61E-02	7.20E-04	1.31E-02	4.26E-03	1.17E-04	1.02E-04	3.93E-03	2.22E-02
7.12E-04	1.29E-02	4.24E-03	1.17E-04	3.89E-03	3.89E-03	2.57E-02	7.12E-04	1.29E-02	4.24E-03	1.17E-04	1.01E-04	3.89E-03	2.19E-02
7.06E-04	1.27E-02	4.22E-03	1.16E-04	3.85E-03	3.85E-03	2.54E-02	7.06E-04	1.27E-02	4.22E-03	1.16E-04	1.01E-04	3.85E-03	2.17E-02
7.00E-04	1.25E-02	4.21E-03	1.16E-04	3.82E-03	3.82E-03	2.51E-02	7.00E-04	1.25E-02	4.21E-03	1.16E-04	1.01E-04	3.82E-03	2.14E-02
6.94E-04	1.23E-02	4.19E-03	1.15E-04	3.79E-03	3.79E-03	2.49E-02	6.94E-04	1.23E-02	4.19E-03	1.15E-04	1.00E-04	3.79E-03	2.12E-02
6.88E-04	1.21E-02	4.17E-03	1.15E-04	3.75E-03	3.75E-03	2.46E-02	6.88E-04	1.21E-02	4.17E-03	1.15E-04	9.99E-05	3.75E-03	2.09E-02
6.81E-04	1.19E-02	4.16E-03	1.14E-04	3.72E-03	3.72E-03	2.43E-02	6.81E-04	1.19E-02	4.16E-03	1.14E-04	9.96E-05	3.72E-03	2.07E-02
6.74E-04	1.17E-02	4.14E-03	1.14E-04	3.68E-03	3.68E-03	2.40E-02	6.74E-04	1.17E-02	4.14E-03	1.14E-04	9.93E-05	3.68E-03	2.04E-02
6.69E-04	1.15E-02	4.12E-03	1.14E-04	3.65E-03	3.65E-03	2.37E-02	6.69E-04	1.15E-02	4.12E-03	1.14E-04	9.90E-05	3.65E-03	2.02E-02
6.62E-04	1.13E-02	4.10E-03	1.13E-04	3.61E-03	3.61E-03	2.34E-02	6.62E-04	1.13E-02	4.10E-03	1.13E-04	9.88E-05	3.61E-03	1.99E-02
6.54E-04	1.11E-02	4.08E-03	1.13E-04	3.57E-03	3.57E-03	2.31E-02	6.54E-04	1.11E-02	4.08E-03	1.13E-04	9.85E-05	3.57E-03	1.96E-02
4.61E-04	7.91E-03	4.23E-03	1.25E-04	3.00E-03	3.00E-03	1.87E-02	4.61E-04	7.91E-03	4.23E-03	1.25E-04	1.10E-04	3.00E-03	1.58E-02
4.53E-04	7.67E-03	4.15E-03	1.23E-04	2.93E-03	2.93E-03	1.83E-02	4.53E-04	7.67E-03	4.15E-03	1.23E-04	1.08E-04	2.93E-03	1.54E-02
4.47E-04	7.50E-03	4.09E-03	1.21E-04	2.87E-03	2.87E-03	1.79E-02	4.47E-04	7.50E-03	4.09E-03	1.21E-04	1.07E-04	2.87E-03	1.51E-02
4.41E-04	7.34E-03	4.05E-03	1.20E-04	2.83E-03	2.83E-03	1.76E-02	4.41E-04	7.34E-03	4.05E-03	1.20E-04	1.06E-04	2.83E-03	1.49E-02
4.41E-04	7.33E-03	4.08E-03	1.20E-04	2.84E-03	2.84E-03	1.76E-02	4.41E-04	7.33E-03	4.08E-03	1.20E-04	1.07E-04	2.84E-03	1.49E-02
4.40E-04	7.31E-03	4.09E-03	1.20E-04	2.84E-03	2.84E-03	1.76E-02	4.40E-04	7.31E-03	4.09E-03	1.20E-04	1.07E-04	2.84E-03	1.49E-02
4.35E-04	7.17E-03	4.05E-03	1.19E-04	2.80E-03	2.80E-03	1.74E-02	4.35E-04	7.17E-03	4.05E-03	1.19E-04	1.07E-04	2.80E-03	1.47E-02
4.30E-04	7.03E-03	4.01E-03	1.18E-04	2.76E-03	2.76E-03	1.71E-02	4.30E-04	7.03E-03	4.01E-03	1.18E-04	1.06E-04	2.76E-03	1.44E-02
4.83E-04	8.41E-03	4.29E-03	1.25E-04	3.11E-03	3.11E-03	1.95E-02	4.83E-04	8.41E-03	4.29E-03	1.25E-04	1.10E-04	3.11E-03	1.65E-02
4.75E-04	8.20E-03	4.23E-03	1.23E-04	3.05E-03	3.05E-03	1.91E-02	4.75E-04	8.20E-03	4.23E-03	1.23E-04	1.09E-04	3.05E-03	1.62E-02
4.67E-04	7.96E-03	4.16E-03	1.22E-04	2.98E-03	2.98E-03	1.87E-02	4.67E-04	7.96E-03	4.16E-03	1.22E-04	1.08E-04	2.98E-03	1.58E-02
4.60E-04	7.76E-03	4.10E-03	1.20E-04	2.92E-03	2.92E-03	1.83E-02	4.60E-04	7.76E-03	4.10E-03	1.20E-04	1.06E-04	2.92E-03	1.55E-02
4.60E-04	7.74E-03	4.13E-03	1.20E-04	2.93E-03	2.93E-03	1.83E-02	4.60E-04	7.74E-03	4.13E-03	1.20E-04	1.07E-04	2.93E-03	1.55E-02
4.57E-04	7.68E-03	4.12E-03	1.20E-04	2.92E-03	2.92E-03	1.82E-02	4.57E-04	7.68E-03	4.12E-03	1.20E-04	1.07E-04	2.92E-03	1.54E-02
4.54E-04	7.58E-03	4.11E-03	1.19E-04	2.89E-03	2.89E-03	1.81E-02	4.54E-04	7.58E-03	4.11E-03	1.19E-04	1.06E-04	2.89E-03	1.53E-02
4.48E-04	7.39E-03	4.05E-03	1.18E-04	2.84E-03	2.84E-03	1.77E-02	4.48E-04	7.39E-03	4.05E-03	1.18E-04	1.05E-04	2.84E-03	1.49E-02
5.04E-04	8.85E-03	4.30E-03	1.24E-04	3.19E-03	3.19E-03	2.02E-02	5.04E-04	8.85E-03	4.30E-03	1.24E-04	1.09E-04	3.19E-03	1.71E-02
4.95E-04	8.59E-03	4.24E-03	1.22E-04	3.12E-03	3.12E-03	1.97E-02	4.95E-04	8.59E-03	4.24E-03	1.22E-04	1.08E-04	3.12E-03	1.67E-02
4.89E-04	8.40E-03	4.20E-03	1.21E-04	3.08E-03	3.08E-03	1.94E-02	4.89E-04	8.40E-03	4.20E-03	1.21E-04	1.07E-04	3.08E-03	1.64E-02
4.81E-04	8.18E-03	4.14E-03	1.20E-04	3.01E-03	3.01E-03	1.90E-02	4.81E-04	8.18E-03	4.14E-03	1.20E-04	1.06E-04	3.01E-03	1.60E-02
4.81E-04	8.19E-03	4.17E-03	1.20E-04	3.03E-03	3.03E-03	1.90E-02	4.81E-04	8.19E-03	4.17E-03	1.20E-04	1.06E-04	3.03E-03	1.61E-02
4.80E-04	8.13E-03	4.17E-03	1.20E-04	3.02E-03	3.02E-03	1.89E-02	4.80E-04	8.13E-03	4.17E-03	1.20E-04	1.06E-04	3.02E-03	1.60E-02

4.73E-04	7.95E-03	4.13E-03	1.19E-04	2.97E-03	2.97E-03	1.86E-02	4.73E-04	7.95E-03	4.13E-03	1.19E-04	1.05E-04	2.97E-03	1.57E-02
4.57E-04	7.48E-03	3.97E-03	1.15E-04	2.82E-03	2.82E-03	1.77E-02	4.57E-04	7.48E-03	3.97E-03	1.15E-04	1.02E-04	2.82E-03	1.49E-02
5.30E-04	9.39E-03	4.32E-03	1.23E-04	3.31E-03	3.31E-03	2.10E-02	5.30E-04	9.39E-03	4.32E-03	1.23E-04	1.08E-04	3.31E-03	1.78E-02
5.20E-04	9.07E-03	4.25E-03	1.21E-04	3.22E-03	3.22E-03	2.04E-02	5.20E-04	9.07E-03	4.25E-03	1.21E-04	1.07E-04	3.22E-03	1.73E-02
5.12E-04	8.82E-03	4.20E-03	1.20E-04	3.16E-03	3.16E-03	2.00E-02	5.12E-04	8.82E-03	4.20E-03	1.20E-04	1.06E-04	3.16E-03	1.69E-02
5.03E-04	8.57E-03	4.15E-03	1.19E-04	3.10E-03	3.10E-03	1.95E-02	5.03E-04	8.57E-03	4.15E-03	1.19E-04	1.05E-04	3.10E-03	1.65E-02
5.02E-04	8.54E-03	4.16E-03	1.19E-04	3.10E-03	3.10E-03	1.95E-02	5.02E-04	8.54E-03	4.16E-03	1.19E-04	1.05E-04	3.10E-03	1.65E-02
5.04E-04	8.55E-03	4.18E-03	1.19E-04	3.11E-03	3.11E-03	1.96E-02	5.04E-04	8.55E-03	4.18E-03	1.19E-04	1.05E-04	3.11E-03	1.66E-02
4.87E-04	8.09E-03	4.06E-03	1.16E-04	2.98E-03	2.98E-03	1.87E-02	4.87E-04	8.09E-03	4.06E-03	1.16E-04	1.03E-04	2.98E-03	1.58E-02
4.71E-04	7.67E-03	3.94E-03	1.14E-04	2.86E-03	2.86E-03	1.79E-02	4.71E-04	7.67E-03	3.94E-03	1.14E-04	1.01E-04	2.86E-03	1.52E-02
5.56E-04	9.86E-03	4.30E-03	1.21E-04	3.39E-03	3.39E-03	2.16E-02	5.56E-04	9.86E-03	4.30E-03	1.21E-04	1.06E-04	3.39E-03	1.83E-02
5.47E-04	9.57E-03	4.25E-03	1.20E-04	3.32E-03	3.32E-03	2.11E-02	5.47E-04	9.57E-03	4.25E-03	1.20E-04	1.05E-04	3.32E-03	1.79E-02
5.38E-04	9.28E-03	4.20E-03	1.19E-04	3.25E-03	3.25E-03	2.06E-02	5.38E-04	9.28E-03	4.20E-03	1.19E-04	1.04E-04	3.25E-03	1.75E-02
5.32E-04	9.08E-03	4.17E-03	1.18E-04	3.21E-03	3.21E-03	2.03E-02	5.32E-04	9.08E-03	4.17E-03	1.18E-04	1.04E-04	3.21E-03	1.72E-02
5.32E-04	9.11E-03	4.19E-03	1.18E-04	3.23E-03	3.23E-03	2.04E-02	5.32E-04	9.11E-03	4.19E-03	1.18E-04	1.04E-04	3.23E-03	1.73E-02
5.17E-04	8.64E-03	4.09E-03	1.16E-04	3.10E-03	3.10E-03	1.96E-02	5.17E-04	8.64E-03	4.09E-03	1.16E-04	1.02E-04	3.10E-03	1.66E-02
4.88E-04	7.87E-03	3.88E-03	1.11E-04	2.87E-03	2.87E-03	1.81E-02	4.88E-04	7.87E-03	3.88E-03	1.11E-04	9.90E-05	2.87E-03	1.53E-02
4.71E-04	7.40E-03	3.73E-03	1.08E-04	2.73E-03	2.73E-03	1.72E-02	4.71E-04	7.40E-03	3.73E-03	1.08E-04	9.65E-05	2.73E-03	1.45E-02
5.83E-04	1.03E-02	4.24E-03	1.18E-04	3.45E-03	3.45E-03	2.21E-02	5.83E-04	1.03E-02	4.24E-03	1.18E-04	1.03E-04	3.45E-03	1.87E-02
5.72E-04	9.92E-03	4.19E-03	1.17E-04	3.38E-03	3.38E-03	2.16E-02	5.72E-04	9.92E-03	4.19E-03	1.17E-04	1.03E-04	3.38E-03	1.83E-02
5.65E-04	9.68E-03	4.16E-03	1.16E-04	3.32E-03	3.32E-03	2.12E-02	5.65E-04	9.68E-03	4.16E-03	1.16E-04	1.02E-04	3.32E-03	1.79E-02
5.64E-04	9.61E-03	4.15E-03	1.16E-04	3.32E-03	3.32E-03	2.11E-02	5.64E-04	9.61E-03	4.15E-03	1.16E-04	1.02E-04	3.32E-03	1.79E-02
5.49E-04	9.18E-03	4.08E-03	1.14E-04	3.21E-03	3.21E-03	2.03E-02	5.49E-04	9.18E-03	4.08E-03	1.14E-04	1.01E-04	3.21E-03	1.72E-02
5.27E-04	8.58E-03	3.96E-03	1.12E-04	3.05E-03	3.05E-03	1.93E-02	5.27E-04	8.58E-03	3.96E-03	1.12E-04	9.92E-05	3.05E-03	1.63E-02
5.05E-04	8.02E-03	3.83E-03	1.09E-04	2.89E-03	2.89E-03	1.83E-02	5.05E-04	8.02E-03	3.83E-03	1.09E-04	9.73E-05	2.89E-03	1.55E-02
4.81E-04	7.38E-03	3.63E-03	1.05E-04	2.70E-03	2.70E-03	1.70E-02	4.81E-04	7.38E-03	3.63E-03	1.05E-04	9.42E-05	2.70E-03	1.44E-02
3.40E-04	4.66E-03	3.38E-03	1.05E-04	2.15E-03	2.15E-03	1.28E-02	3.40E-04	4.66E-03	3.38E-03	1.05E-04	9.78E-05	2.15E-03	1.07E-02
3.37E-04	4.58E-03	3.33E-03	1.03E-04	2.12E-03	2.12E-03	1.26E-02	3.37E-04	4.58E-03	3.33E-03	1.03E-04	9.66E-05	2.12E-03	1.06E-02
3.34E-04	4.50E-03	3.28E-03	1.02E-04	2.08E-03	2.08E-03	1.24E-02	3.34E-04	4.50E-03	3.28E-03	1.02E-04	9.54E-05	2.08E-03	1.04E-02
3.31E-04	4.41E-03	3.22E-03	1.00E-04	2.04E-03	2.04E-03	1.21E-02	3.31E-04	4.41E-03	3.22E-03	1.00E-04	9.38E-05	2.04E-03	1.02E-02
3.29E-04	4.37E-03	3.20E-03	9.96E-05	2.02E-03	2.02E-03	1.21E-02	3.29E-04	4.37E-03	3.20E-03	9.96E-05	9.36E-05	2.02E-03	1.01E-02
3.51E-04	4.96E-03	3.46E-03	1.07E-04	2.23E-03	2.23E-03	1.33E-02	3.51E-04	4.96E-03	3.46E-03	1.07E-04	9.93E-05	2.23E-03	1.12E-02
3.46E-04	4.83E-03	3.39E-03	1.05E-04	2.18E-03	2.18E-03	1.30E-02	3.46E-04	4.83E-03	3.39E-03	1.05E-04	9.75E-05	2.18E-03	1.09E-02
3.43E-04	4.74E-03	3.33E-03	1.03E-04	2.14E-03	2.14E-03	1.28E-02	3.43E-04	4.74E-03	3.33E-03	1.03E-04	9.61E-05	2.14E-03	1.08E-02
3.40E-04	4.64E-03	3.28E-03	1.02E-04	2.10E-03	2.10E-03	1.26E-02	3.40E-04	4.64E-03	3.28E-03	1.02E-04	9.47E-05	2.10E-03	1.06E-02
3.40E-04	4.65E-03	3.31E-03	1.02E-04	2.11E-03	2.11E-03	1.26E-02	3.40E-04	4.65E-03	3.31E-03	1.02E-04	9.57E-05	2.11E-03	1.06E-02
3.59E-04	5.19E-03	3.49E-03	1.08E-04	2.28E-03	2.28E-03	1.37E-02	3.59E-04	5.19E-03	3.49E-03	1.08E-04	9.93E-05	2.28E-03	1.15E-02
3.55E-04	5.08E-03	3.43E-03	1.06E-04	2.23E-03	2.23E-03	1.34E-02	3.55E-04	5.08E-03	3.43E-03	1.06E-04	9.79E-05	2.23E-03	1.13E-02
3.52E-04	4.98E-03	3.39E-03	1.04E-04	2.20E-03	2.20E-03	1.32E-02	3.52E-04	4.98E-03	3.39E-03	1.04E-04	9.68E-05	2.20E-03	1.11E-02
3.49E-04	4.90E-03	3.35E-03	1.03E-04	2.16E-03	2.16E-03	1.30E-02	3.49E-04	4.90E-03	3.35E-03	1.03E-04	9.58E-05	2.16E-03	1.10E-02
3.52E-04	4.94E-03	3.40E-03	1.05E-04	2.19E-03	2.19E-03	1.32E-02	3.52E-04	4.94E-03	3.40E-03	1.05E-04	9.76E-05	2.19E-03	1.11E-02
3.66E-04	5.38E-03	3.49E-03	1.07E-04	2.30E-03	2.30E-03	1.39E-02	3.66E-04	5.38E-03	3.49E-03	1.07E-04	9.82E-05	2.30E-03	1.17E-02
3.62E-04	5.25E-03	3.42E-03	1.05E-04	2.25E-03	2.25E-03	1.36E-02	3.62E-04	5.25E-03	3.42E-03	1.05E-04	9.67E-05	2.25E-03	1.15E-02
3.60E-04	5.18E-03	3.40E-03	1.04E-04	2.23E-03	2.23E-03	1.35E-02	3.60E-04	5.18E-03	3.40E-03	1.04E-04	9.62E-05	2.23E-03	1.14E-02
3.60E-04	5.17E-03	3.42E-03	1.05E-04	2.23E-03	2.23E-03	1.35E-02	3.60E-04	5.17E-03	3.42E-03	1.05E-04	9.70E-05	2.23E-03	1.14E-02
3.64E-04	5.24E-03	3.50E-03	1.07E-04	2.27E-03	2.27E-03	1.37E-02	3.64E-04	5.24E-03	3.50E-03	1.07E-04	9.91E-05	2.27E-03	1.16E-02
3.73E-04	5.52E-03	3.46E-03	1.05E-04	2.30E-03	2.30E-03	1.41E-02	3.73E-04	5.52E-03	3.46E-03	1.05E-04	9.63E-05	2.30E-03	1.19E-02
3.71E-04	5.47E-03	3.45E-03	1.05E-04	2.28E-03	2.28E-03	1.40E-02	3.71E-04	5.47E-03	3.45E-03	1.05E-04	9.63E-05	2.28E-03	1.18E-02
3.72E-04	5.46E-03	3.47E-03	1.06E-04	2.29E-03	2.29E-03	1.40E-02	3.72E-04	5.46E-03	3.47E-03	1.06E-04	9.72E-05	2.29E-03	1.18E-02
3.72E-04	5.44E-03	3.49E-03	1.06E-04	2.30E-03	2.30E-03	1.40E-02	3.72E-04	5.44E-03	3.49E-03	1.06E-04	9.78E-05	2.30E-03	1.18E-02
3.74E-04	5.49E-03	3.55E-03	1.08E-04	2.33E-03	2.33E-03	1.42E-02	3.74E-04	5.49E-03	3.55E-03	1.08E-04	9.94E-05	2.33E-03	1.20E-02
3.10E-04	3.87E-03	3.07E-03	9.59E-05	1.91E-03	1.91E-03	1.12E-02	3.10E-04	3.87E-03	3.07E-03	9.59E-05	9.13E-05	1.91E-03	9.35E-03
3.10E-04	3.86E-03	3.07E-03	9.58E-05	1.90E-03	1.90E-03	1.11E-02	3.10E-04	3.86E-03	3.07E-03	9.58E-05	9.12E-05	1.90E-03	9.33E-03
3.08E-04	3.84E-03	3.05E-03	9.50E-05	1.88E-03	1.88E-03	1.11E-02	3.08E-04	3.84E-03	3.05E-03	9.50E-05	9.02E-05	1.88E-03	9.27E-03

3.08E-04	3.82E-03	3.03E-03	9.46E-05	1.87E-03	1.87E-03	1.10E-02	3.08E-04	3.82E-03	3.03E-03	9.46E-05	8.99E-05	1.87E-03	9.22E-03
3.13E-04	3.96E-03	3.08E-03	9.59E-05	1.92E-03	1.92E-03	1.13E-02	3.13E-04	3.96E-03	3.08E-03	9.59E-05	9.07E-05	1.92E-03	9.46E-03
3.13E-04	3.97E-03	3.09E-03	9.63E-05	1.92E-03	1.92E-03	1.13E-02	3.13E-04	3.97E-03	3.09E-03	9.63E-05	9.11E-05	1.92E-03	9.48E-03
3.12E-04	3.93E-03	3.06E-03	9.55E-05	1.90E-03	1.90E-03	1.12E-02	3.12E-04	3.93E-03	3.06E-03	9.55E-05	9.04E-05	1.90E-03	9.40E-03
3.12E-04	3.92E-03	3.06E-03	9.53E-05	1.90E-03	1.90E-03	1.12E-02	3.12E-04	3.92E-03	3.06E-03	9.53E-05	9.04E-05	1.90E-03	9.37E-03
3.19E-04	4.11E-03	3.15E-03	9.80E-05	1.97E-03	1.97E-03	1.16E-02	3.19E-04	4.11E-03	3.15E-03	9.80E-05	9.25E-05	1.97E-03	9.73E-03
3.15E-04	4.02E-03	3.07E-03	9.56E-05	1.92E-03	1.92E-03	1.14E-02	3.15E-04	4.02E-03	3.07E-03	9.56E-05	9.02E-05	1.92E-03	9.52E-03
3.14E-04	4.00E-03	3.06E-03	9.51E-05	1.91E-03	1.91E-03	1.13E-02	3.14E-04	4.00E-03	3.06E-03	9.51E-05	8.98E-05	1.91E-03	9.46E-03
3.16E-04	4.03E-03	3.09E-03	9.63E-05	1.93E-03	1.93E-03	1.14E-02	3.16E-04	4.03E-03	3.09E-03	9.63E-05	9.12E-05	1.93E-03	9.55E-03
3.22E-04	4.21E-03	3.16E-03	9.85E-05	1.99E-03	1.99E-03	1.18E-02	3.22E-04	4.21E-03	3.16E-03	9.85E-05	9.26E-05	1.99E-03	9.87E-03
3.20E-04	4.16E-03	3.13E-03	9.75E-05	1.97E-03	1.97E-03	1.16E-02	3.20E-04	4.16E-03	3.13E-03	9.75E-05	9.18E-05	1.97E-03	9.77E-03
3.19E-04	4.12E-03	3.11E-03	9.68E-05	1.96E-03	1.96E-03	1.16E-02	3.19E-04	4.12E-03	3.11E-03	9.68E-05	9.16E-05	1.96E-03	9.69E-03
3.20E-04	4.14E-03	3.13E-03	9.74E-05	1.96E-03	1.96E-03	1.16E-02	3.20E-04	4.14E-03	3.13E-03	9.74E-05	9.19E-05	1.96E-03	9.74E-03
3.13E-04	3.94E-03	3.15E-03	9.82E-05	1.92E-03	1.92E-03	1.13E-02	3.13E-04	3.94E-03	3.15E-03	9.82E-05	9.39E-05	1.92E-03	9.51E-03
3.16E-04	4.00E-03	3.21E-03	1.00E-04	1.95E-03	1.95E-03	1.15E-02	3.16E-04	4.00E-03	3.21E-03	1.00E-04	9.59E-05	1.95E-03	9.67E-03
3.22E-04	4.12E-03	3.33E-03	1.04E-04	2.01E-03	2.01E-03	1.19E-02	3.22E-04	4.12E-03	3.33E-03	1.04E-04	1.00E-04	2.01E-03	9.98E-03
3.24E-04	4.16E-03	3.36E-03	1.05E-04	2.02E-03	2.02E-03	1.20E-02	3.24E-04	4.16E-03	3.36E-03	1.05E-04	1.01E-04	2.02E-03	1.01E-02
3.27E-04	4.24E-03	3.44E-03	1.07E-04	2.05E-03	2.05E-03	1.22E-02	3.27E-04	4.24E-03	3.44E-03	1.07E-04	1.03E-04	2.05E-03	1.03E-02
3.31E-04	4.32E-03	3.51E-03	1.09E-04	2.09E-03	2.09E-03	1.24E-02	3.31E-04	4.32E-03	3.51E-03	1.09E-04	1.05E-04	2.09E-03	1.05E-02
3.22E-04	4.17E-03	3.23E-03	1.01E-04	1.99E-03	1.99E-03	1.18E-02	3.22E-04	4.17E-03	3.23E-03	1.01E-04	9.57E-05	1.99E-03	9.91E-03
3.25E-04	4.23E-03	3.29E-03	1.03E-04	2.02E-03	2.02E-03	1.20E-02	3.25E-04	4.23E-03	3.29E-03	1.03E-04	9.78E-05	2.02E-03	1.01E-02
3.30E-04	4.35E-03	3.41E-03	1.06E-04	2.07E-03	2.07E-03	1.23E-02	3.30E-04	4.35E-03	3.41E-03	1.06E-04	1.01E-04	2.07E-03	1.04E-02
3.33E-04	4.42E-03	3.47E-03	1.08E-04	2.10E-03	2.10E-03	1.25E-02	3.33E-04	4.42E-03	3.47E-03	1.08E-04	1.03E-04	2.10E-03	1.05E-02
3.35E-04	4.45E-03	3.50E-03	1.08E-04	2.11E-03	2.11E-03	1.26E-02	3.35E-04	4.45E-03	3.50E-03	1.08E-04	1.04E-04	2.11E-03	1.06E-02
3.38E-04	4.50E-03	3.55E-03	1.10E-04	2.14E-03	2.14E-03	1.28E-02	3.38E-04	4.50E-03	3.55E-03	1.10E-04	1.06E-04	2.14E-03	1.07E-02
3.30E-04	4.37E-03	3.28E-03	1.02E-04	2.05E-03	2.05E-03	1.22E-02	3.30E-04	4.37E-03	3.28E-03	1.02E-04	9.64E-05	2.05E-03	1.02E-02
3.32E-04	4.42E-03	3.33E-03	1.03E-04	2.07E-03	2.07E-03	1.23E-02	3.32E-04	4.42E-03	3.33E-03	1.03E-04	9.81E-05	2.07E-03	1.04E-02
3.38E-04	4.55E-03	3.47E-03	1.07E-04	2.14E-03	2.14E-03	1.27E-02	3.38E-04	4.55E-03	3.47E-03	1.07E-04	1.02E-04	2.14E-03	1.07E-02
3.41E-04	4.61E-03	3.51E-03	1.08E-04	2.16E-03	2.16E-03	1.29E-02	3.41E-04	4.61E-03	3.51E-03	1.08E-04	1.03E-04	2.16E-03	1.08E-02
3.42E-04	4.62E-03	3.54E-03	1.09E-04	2.17E-03	2.17E-03	1.30E-02	3.42E-04	4.62E-03	3.54E-03	1.09E-04	1.05E-04	2.17E-03	1.09E-02
3.47E-04	4.74E-03	3.63E-03	1.11E-04	2.22E-03	2.22E-03	1.33E-02	3.47E-04	4.74E-03	3.63E-03	1.11E-04	1.07E-04	2.22E-03	1.12E-02
3.38E-04	4.59E-03	3.33E-03	1.03E-04	2.10E-03	2.10E-03	1.26E-02	3.38E-04	4.59E-03	3.33E-03	1.03E-04	9.71E-05	2.10E-03	1.06E-02
3.44E-04	4.71E-03	3.45E-03	1.06E-04	2.16E-03	2.16E-03	1.29E-02	3.44E-04	4.71E-03	3.45E-03	1.06E-04	1.00E-04	2.16E-03	1.09E-02
3.43E-04	4.68E-03	3.44E-03	1.06E-04	2.15E-03	2.15E-03	1.29E-02	3.43E-04	4.68E-03	3.44E-03	1.06E-04	1.00E-04	2.15E-03	1.08E-02
3.49E-04	4.82E-03	3.57E-03	1.10E-04	2.23E-03	2.23E-03	1.33E-02	3.49E-04	4.82E-03	3.57E-03	1.10E-04	1.04E-04	2.23E-03	1.12E-02
3.53E-04	4.91E-03	3.64E-03	1.11E-04	2.26E-03	2.26E-03	1.35E-02	3.53E-04	4.91E-03	3.64E-03	1.11E-04	1.06E-04	2.26E-03	1.14E-02
3.59E-04	5.03E-03	3.75E-03	1.14E-04	2.33E-03	2.33E-03	1.39E-02	3.59E-04	5.03E-03	3.75E-03	1.14E-04	1.09E-04	2.33E-03	1.17E-02
2.88E-04	3.26E-03	3.00E-03	9.40E-05	1.75E-03	1.75E-03	1.01E-02	2.88E-04	3.26E-03	3.00E-03	9.40E-05	9.01E-05	1.75E-03	8.48E-03
2.89E-04	3.29E-03	3.03E-03	9.51E-05	1.77E-03	1.77E-03	1.02E-02	2.89E-04	3.29E-03	3.03E-03	9.51E-05	9.16E-05	1.77E-03	8.56E-03
2.91E-04	3.32E-03	3.05E-03	9.59E-05	1.77E-03	1.77E-03	1.03E-02	2.91E-04	3.32E-03	3.05E-03	9.59E-05	9.24E-05	1.77E-03	8.62E-03
2.92E-04	3.34E-03	3.06E-03	9.63E-05	1.77E-03	1.77E-03	1.03E-02	2.92E-04	3.34E-03	3.06E-03	9.63E-05	9.24E-05	1.77E-03	8.66E-03
2.91E-04	3.33E-03	3.05E-03	9.59E-05	1.77E-03	1.77E-03	1.03E-02	2.91E-04	3.33E-03	3.05E-03	9.59E-05	9.20E-05	1.77E-03	8.63E-03
2.91E-04	3.34E-03	3.05E-03	9.61E-05	1.77E-03	1.77E-03	1.03E-02	2.91E-04	3.34E-03	3.05E-03	9.61E-05	9.22E-05	1.77E-03	8.64E-03
2.92E-04	3.37E-03	3.05E-03	9.55E-05	1.78E-03	1.78E-03	1.04E-02	2.92E-04	3.37E-03	3.05E-03	9.55E-05	9.17E-05	1.78E-03	8.68E-03
2.94E-04	3.41E-03	3.09E-03	9.69E-05	1.80E-03	1.80E-03	1.05E-02	2.94E-04	3.41E-03	3.09E-03	9.69E-05	9.30E-05	1.80E-03	8.78E-03
2.93E-04	3.39E-03	3.06E-03	9.61E-05	1.79E-03	1.79E-03	1.04E-02	2.93E-04	3.39E-03	3.06E-03	9.61E-05	9.23E-05	1.79E-03	8.72E-03
2.92E-04	3.36E-03	3.03E-03	9.51E-05	1.77E-03	1.77E-03	1.03E-02	2.92E-04	3.36E-03	3.03E-03	9.51E-05	9.13E-05	1.77E-03	8.64E-03
2.92E-04	3.36E-03	3.02E-03	9.48E-05	1.76E-03	1.76E-03	1.03E-02	2.92E-04	3.36E-03	3.02E-03	9.48E-05	9.10E-05	1.76E-03	8.62E-03
2.91E-04	3.35E-03	3.01E-03	9.45E-05	1.76E-03	1.76E-03	1.03E-02	2.91E-04	3.35E-03	3.01E-03	9.45E-05	9.08E-05	1.76E-03	8.59E-03
2.95E-04	3.43E-03	3.05E-03	9.58E-05	1.80E-03	1.80E-03	1.05E-02	2.95E-04	3.43E-03	3.05E-03	9.58E-05	9.19E-05	1.80E-03	8.77E-03
2.96E-04	3.46E-03	3.08E-03	9.66E-05	1.81E-03	1.81E-03	1.06E-02	2.96E-04	3.46E-03	3.08E-03	9.66E-05	9.27E-05	1.81E-03	8.84E-03
2.94E-04	3.43E-03	3.05E-03	9.56E-05	1.79E-03	1.79E-03	1.05E-02	2.94E-04	3.43E-03	3.05E-03	9.56E-05	9.17E-05	1.79E-03	8.75E-03
2.94E-04	3.41E-03	3.02E-03	9.49E-05	1.78E-03	1.78E-03	1.04E-02	2.94E-04	3.41E-03	3.02E-03	9.49E-05	9.11E-05	1.78E-03	8.70E-03
2.92E-04	3.38E-03	2.99E-03	9.38E-05	1.76E-03	1.76E-03	1.03E-02	2.92E-04	3.38E-03	2.99E-03	9.38E-05	9.01E-05	1.76E-03	8.61E-03

2.92E-04	3.38E-03	2.98E-03	9.35E-05	1.75E-03	1.75E-03	1.02E-02	2.92E-04	3.38E-03	2.98E-03	9.35E-05	8.98E-05	1.75E-03	8.58E-03
2.98E-04	3.51E-03	3.07E-03	9.62E-05	1.82E-03	1.82E-03	1.06E-02	2.98E-04	3.51E-03	3.07E-03	9.62E-05	9.23E-05	1.82E-03	8.89E-03
2.97E-04	3.49E-03	3.05E-03	9.56E-05	1.81E-03	1.81E-03	1.05E-02	2.97E-04	3.49E-03	3.05E-03	9.56E-05	9.17E-05	1.81E-03	8.83E-03
2.96E-04	3.49E-03	3.04E-03	9.53E-05	1.80E-03	1.80E-03	1.05E-02	2.96E-04	3.49E-03	3.04E-03	9.53E-05	9.15E-05	1.80E-03	8.81E-03
2.96E-04	3.47E-03	3.02E-03	9.48E-05	1.79E-03	1.79E-03	1.05E-02	2.96E-04	3.47E-03	3.02E-03	9.48E-05	9.10E-05	1.79E-03	8.77E-03
2.94E-04	3.43E-03	2.98E-03	9.35E-05	1.77E-03	1.77E-03	1.03E-02	2.94E-04	3.43E-03	2.98E-03	9.35E-05	8.98E-05	1.77E-03	8.66E-03
2.93E-04	3.43E-03	2.97E-03	9.32E-05	1.76E-03	1.76E-03	1.03E-02	2.93E-04	3.43E-03	2.97E-03	9.32E-05	8.95E-05	1.76E-03	8.63E-03
2.98E-04	3.53E-03	3.04E-03	9.52E-05	1.82E-03	1.82E-03	1.06E-02	2.98E-04	3.53E-03	3.04E-03	9.52E-05	9.16E-05	1.82E-03	8.88E-03
2.98E-04	3.54E-03	3.04E-03	9.51E-05	1.81E-03	1.81E-03	1.06E-02	2.98E-04	3.54E-03	3.04E-03	9.51E-05	9.12E-05	1.81E-03	8.87E-03
2.97E-04	3.52E-03	3.01E-03	9.43E-05	1.80E-03	1.80E-03	1.05E-02	2.97E-04	3.52E-03	3.01E-03	9.43E-05	9.05E-05	1.80E-03	8.81E-03
2.96E-04	3.51E-03	3.00E-03	9.40E-05	1.79E-03	1.79E-03	1.05E-02	2.96E-04	3.51E-03	3.00E-03	9.40E-05	9.02E-05	1.79E-03	8.78E-03
2.98E-04	3.54E-03	3.03E-03	9.49E-05	1.80E-03	1.80E-03	1.06E-02	2.98E-04	3.54E-03	3.03E-03	9.49E-05	9.12E-05	1.80E-03	8.85E-03
2.99E-04	3.56E-03	3.06E-03	9.59E-05	1.81E-03	1.81E-03	1.06E-02	2.99E-04	3.56E-03	3.06E-03	9.59E-05	9.25E-05	1.81E-03	8.92E-03
1.45E-03	2.55E-02	4.26E-03	1.11E-04	5.14E-03	5.14E-03	4.16E-02	1.45E-03	2.55E-02	4.26E-03	1.11E-04	9.38E-05	5.14E-03	3.66E-02
1.43E-03	2.49E-02	4.25E-03	1.11E-04	5.09E-03	5.09E-03	4.08E-02	1.43E-03	2.49E-02	4.25E-03	1.11E-04	9.41E-05	5.09E-03	3.58E-02
1.51E-03	2.46E-02	4.17E-03	1.08E-04	5.05E-03	5.05E-03	4.05E-02	1.51E-03	2.46E-02	4.17E-03	1.08E-04	9.11E-05	5.05E-03	3.56E-02
1.49E-03	2.40E-02	4.16E-03	1.08E-04	5.01E-03	5.01E-03	3.98E-02	1.49E-03	2.40E-02	4.16E-03	1.08E-04	9.14E-05	5.01E-03	3.49E-02
1.58E-03	2.36E-02	4.08E-03	1.06E-04	4.96E-03	4.96E-03	3.93E-02	1.58E-03	2.36E-02	4.08E-03	1.06E-04	8.85E-05	4.96E-03	3.45E-02
1.55E-03	2.30E-02	4.07E-03	1.06E-04	4.91E-03	4.91E-03	3.86E-02	1.55E-03	2.30E-02	4.07E-03	1.06E-04	8.88E-05	4.91E-03	3.38E-02
1.44E-03	2.40E-02	4.19E-03	1.10E-04	5.01E-03	5.01E-03	3.98E-02	1.44E-03	2.40E-02	4.19E-03	1.10E-04	9.28E-05	5.01E-03	3.48E-02
1.42E-03	2.36E-02	4.19E-03	1.10E-04	4.98E-03	4.98E-03	3.93E-02	1.42E-03	2.36E-02	4.19E-03	1.10E-04	9.31E-05	4.98E-03	3.44E-02
1.47E-03	2.35E-02	4.14E-03	1.08E-04	4.96E-03	4.96E-03	3.91E-02	1.47E-03	2.35E-02	4.14E-03	1.08E-04	9.12E-05	4.96E-03	3.42E-02
1.45E-03	2.31E-02	4.14E-03	1.08E-04	4.93E-03	4.93E-03	3.87E-02	1.45E-03	2.31E-02	4.14E-03	1.08E-04	9.15E-05	4.93E-03	3.38E-02
1.71E-03	4.24E-02	4.76E-03	1.24E-04	6.29E-03	6.29E-03	6.16E-02	1.71E-03	4.24E-02	4.76E-03	1.24E-04	1.00E-04	6.29E-03	5.54E-02
1.65E-03	4.06E-02	4.76E-03	1.24E-04	6.21E-03	6.21E-03	5.96E-02	1.65E-03	4.06E-02	4.76E-03	1.24E-04	1.01E-04	6.21E-03	5.35E-02
1.59E-03	3.89E-02	4.76E-03	1.24E-04	6.13E-03	6.13E-03	5.76E-02	1.59E-03	3.89E-02	4.76E-03	1.24E-04	1.02E-04	6.13E-03	5.16E-02
1.50E-03	3.65E-02	4.76E-03	1.25E-04	6.01E-03	6.01E-03	5.49E-02	1.50E-03	3.65E-02	4.76E-03	1.25E-04	1.03E-04	6.01E-03	4.90E-02
1.41E-03	3.38E-02	4.76E-03	1.25E-04	5.86E-03	5.86E-03	5.18E-02	1.41E-03	3.38E-02	4.76E-03	1.25E-04	1.04E-04	5.86E-03	4.61E-02
1.41E-03	3.37E-02	4.74E-03	1.25E-04	5.85E-03	5.85E-03	5.17E-02	1.41E-03	3.37E-02	4.74E-03	1.25E-04	1.04E-04	5.85E-03	4.60E-02
1.41E-03	3.32E-02	4.72E-03	1.24E-04	5.83E-03	5.83E-03	5.12E-02	1.41E-03	3.32E-02	4.72E-03	1.24E-04	1.04E-04	5.83E-03	4.54E-02
1.38E-03	3.23E-02	4.71E-03	1.24E-04	5.77E-03	5.77E-03	5.00E-02	1.38E-03	3.23E-02	4.71E-03	1.24E-04	1.04E-04	5.77E-03	4.44E-02
1.33E-03	3.09E-02	4.70E-03	1.24E-04	5.68E-03	5.68E-03	4.84E-02	1.33E-03	3.09E-02	4.70E-03	1.24E-04	1.04E-04	5.68E-03	4.29E-02
1.30E-03	2.98E-02	4.69E-03	1.24E-04	5.61E-03	5.61E-03	4.71E-02	1.30E-03	2.98E-02	4.69E-03	1.24E-04	1.05E-04	5.61E-03	4.16E-02
1.27E-03	2.88E-02	4.68E-03	1.24E-04	5.54E-03	5.54E-03	4.60E-02	1.27E-03	2.88E-02	4.68E-03	1.24E-04	1.05E-04	5.54E-03	4.06E-02
1.79E-03	4.22E-02	4.65E-03	1.20E-04	6.18E-03	6.18E-03	6.11E-02	1.79E-03	4.22E-02	4.65E-03	1.20E-04	9.72E-05	6.18E-03	5.50E-02
1.73E-03	4.04E-02	4.64E-03	1.20E-04	6.11E-03	6.11E-03	5.91E-02	1.73E-03	4.04E-02	4.64E-03	1.20E-04	9.78E-05	6.11E-03	5.31E-02
1.63E-03	3.81E-02	4.66E-03	1.21E-04	6.01E-03	6.01E-03	5.65E-02	1.63E-03	3.81E-02	4.66E-03	1.21E-04	9.90E-05	6.01E-03	5.06E-02
1.58E-03	3.66E-02	4.65E-03	1.21E-04	5.94E-03	5.94E-03	5.48E-02	1.58E-03	3.66E-02	4.65E-03	1.21E-04	9.95E-05	5.94E-03	4.90E-02
1.49E-03	3.44E-02	4.66E-03	1.22E-04	5.82E-03	5.82E-03	5.23E-02	1.49E-03	3.44E-02	4.66E-03	1.22E-04	1.00E-04	5.82E-03	4.65E-02
1.47E-03	3.35E-02	4.64E-03	1.21E-04	5.77E-03	5.77E-03	5.13E-02	1.47E-03	3.35E-02	4.64E-03	1.21E-04	1.01E-04	5.77E-03	4.56E-02
1.46E-03	3.30E-02	4.62E-03	1.21E-04	5.75E-03	5.75E-03	5.07E-02	1.46E-03	3.30E-02	4.62E-03	1.21E-04	1.01E-04	5.75E-03	4.50E-02
1.44E-03	3.20E-02	4.61E-03	1.21E-04	5.69E-03	5.69E-03	4.95E-02	1.44E-03	3.20E-02	4.61E-03	1.21E-04	1.01E-04	5.69E-03	4.39E-02
1.38E-03	3.07E-02	4.60E-03	1.21E-04	5.60E-03	5.60E-03	4.80E-02	1.38E-03	3.07E-02	4.60E-03	1.21E-04	1.02E-04	5.60E-03	4.25E-02
1.34E-03	2.95E-02	4.60E-03	1.21E-04	5.53E-03	5.53E-03	4.66E-02	1.34E-03	2.95E-02	4.60E-03	1.21E-04	1.02E-04	5.53E-03	4.12E-02
1.31E-03	2.86E-02	4.58E-03	1.21E-04	5.47E-03	5.47E-03	4.56E-02	1.31E-03	2.86E-02	4.58E-03	1.21E-04	1.02E-04	5.47E-03	4.02E-02
1.88E-03	4.14E-02	4.53E-03	1.17E-04	6.07E-03	6.07E-03	6.01E-02	1.88E-03	4.14E-02	4.53E-03	1.17E-04	9.41E-05	6.07E-03	5.41E-02
1.81E-03	3.96E-02	4.54E-03	1.17E-04	6.00E-03	6.00E-03	5.81E-02	1.81E-03	3.96E-02	4.54E-03	1.17E-04	9.48E-05	6.00E-03	5.22E-02
1.72E-03	3.78E-02	4.54E-03	1.17E-04	5.92E-03	5.92E-03	5.61E-02	1.72E-03	3.78E-02	4.54E-03	1.17E-04	9.57E-05	5.92E-03	5.02E-02
1.66E-03	3.62E-02	4.54E-03	1.18E-04	5.85E-03	5.85E-03	5.42E-02	1.66E-03	3.62E-02	4.54E-03	1.18E-04	9.64E-05	5.85E-03	4.84E-02
1.56E-03	3.41E-02	4.55E-03	1.18E-04	5.74E-03	5.74E-03	5.18E-02	1.56E-03	3.41E-02	4.55E-03	1.18E-04	9.74E-05	5.74E-03	4.62E-02
1.54E-03	3.33E-02	4.54E-03	1.18E-04	5.70E-03	5.70E-03	5.09E-02	1.54E-03	3.33E-02	4.54E-03	1.18E-04	9.76E-05	5.70E-03	4.53E-02
1.54E-03	3.25E-02	4.52E-03	1.18E-04	5.66E-03	5.66E-03	5.00E-02	1.54E-03	3.25E-02	4.52E-03	1.18E-04	9.76E-05	5.66E-03	4.45E-02
1.50E-03	3.14E-02	4.51E-03	1.18E-04	5.60E-03	5.60E-03	4.88E-02	1.50E-03	3.14E-02	4.51E-03	1.18E-04	9.80E-05	5.60E-03	4.33E-02
1.44E-03	3.02E-02	4.51E-03	1.18E-04	5.52E-03	5.52E-03	4.73E-02	1.44E-03	3.02E-02	4.51E-03	1.18E-04	9.87E-05	5.52E-03	4.18E-02

1.39E-03	2.91E-02	4.50E-03	1.18E-04	5.45E-03	5.45E-03	4.60E-02	1.39E-03	2.91E-02	4.50E-03	1.18E-04	9.92E-05	5.45E-03	4.06E-02
1.36E-03	2.82E-02	4.49E-03	1.18E-04	5.39E-03	5.39E-03	4.49E-02	1.36E-03	2.82E-02	4.49E-03	1.18E-04	9.96E-05	5.39E-03	3.96E-02
1.97E-03	4.00E-02	4.43E-03	1.13E-04	5.95E-03	5.95E-03	5.85E-02	1.97E-03	4.00E-02	4.43E-03	1.13E-04	9.13E-05	5.95E-03	5.26E-02
1.90E-03	3.84E-02	4.42E-03	1.14E-04	5.89E-03	5.89E-03	5.66E-02	1.90E-03	3.84E-02	4.42E-03	1.14E-04	9.17E-05	5.89E-03	5.08E-02
1.82E-03	3.69E-02	4.43E-03	1.14E-04	5.82E-03	5.82E-03	5.49E-02	1.82E-03	3.69E-02	4.43E-03	1.14E-04	9.25E-05	5.82E-03	4.92E-02
1.75E-03	3.54E-02	4.43E-03	1.14E-04	5.75E-03	5.75E-03	5.32E-02	1.75E-03	3.54E-02	4.43E-03	1.14E-04	9.32E-05	5.75E-03	4.75E-02
1.69E-03	3.40E-02	4.43E-03	1.14E-04	5.68E-03	5.68E-03	5.16E-02	1.69E-03	3.40E-02	4.43E-03	1.14E-04	9.38E-05	5.68E-03	4.61E-02
1.64E-03	3.28E-02	4.43E-03	1.15E-04	5.62E-03	5.62E-03	5.02E-02	1.64E-03	3.28E-02	4.43E-03	1.15E-04	9.43E-05	5.62E-03	4.47E-02
1.62E-03	3.19E-02	4.41E-03	1.14E-04	5.57E-03	5.57E-03	4.91E-02	1.62E-03	3.19E-02	4.41E-03	1.14E-04	9.44E-05	5.57E-03	4.37E-02
1.55E-03	3.06E-02	4.41E-03	1.15E-04	5.50E-03	5.50E-03	4.77E-02	1.55E-03	3.06E-02	4.41E-03	1.15E-04	9.52E-05	5.50E-03	4.23E-02
1.50E-03	2.95E-02	4.41E-03	1.15E-04	5.44E-03	5.44E-03	4.64E-02	1.50E-03	2.95E-02	4.41E-03	1.15E-04	9.58E-05	5.44E-03	4.11E-02
1.44E-03	2.84E-02	4.41E-03	1.15E-04	5.37E-03	5.37E-03	4.51E-02	1.44E-03	2.84E-02	4.41E-03	1.15E-04	9.64E-05	5.37E-03	3.98E-02
1.42E-03	2.76E-02	4.40E-03	1.15E-04	5.32E-03	5.32E-03	4.42E-02	1.42E-03	2.76E-02	4.40E-03	1.15E-04	9.67E-05	5.32E-03	3.90E-02
1.69E-03	3.07E-02	4.31E-03	1.11E-04	5.47E-03	5.47E-03	4.78E-02	1.69E-03	3.07E-02	4.31E-03	1.11E-04	9.16E-05	5.47E-03	4.24E-02
1.63E-03	2.97E-02	4.31E-03	1.12E-04	5.41E-03	5.41E-03	4.65E-02	1.63E-03	2.97E-02	4.31E-03	1.12E-04	9.23E-05	5.41E-03	4.12E-02
1.57E-03	2.87E-02	4.31E-03	1.12E-04	5.35E-03	5.35E-03	4.53E-02	1.57E-03	2.87E-02	4.31E-03	1.12E-04	9.29E-05	5.35E-03	4.01E-02
1.52E-03	2.77E-02	4.31E-03	1.12E-04	5.29E-03	5.29E-03	4.42E-02	1.52E-03	2.77E-02	4.31E-03	1.12E-04	9.34E-05	5.29E-03	3.90E-02
1.49E-03	2.70E-02	4.30E-03	1.12E-04	5.24E-03	5.24E-03	4.33E-02	1.49E-03	2.70E-02	4.30E-03	1.12E-04	9.37E-05	5.24E-03	3.82E-02
1.59E-03	2.68E-02	4.21E-03	1.09E-04	5.20E-03	5.20E-03	4.31E-02	1.59E-03	2.68E-02	4.21E-03	1.09E-04	9.06E-05	5.20E-03	3.80E-02
1.56E-03	2.60E-02	4.20E-03	1.09E-04	5.15E-03	5.15E-03	4.22E-02	1.56E-03	2.60E-02	4.20E-03	1.09E-04	9.09E-05	5.15E-03	3.72E-02
1.61E-03	1.43E-02	3.55E-03	9.22E-05	3.99E-03	3.99E-03	2.75E-02	1.61E-03	1.43E-02	3.55E-03	9.22E-05	7.95E-05	3.99E-03	2.36E-02
1.58E-03	1.41E-02	3.54E-03	9.22E-05	3.96E-03	3.96E-03	2.72E-02	1.58E-03	1.41E-02	3.54E-03	9.22E-05	7.98E-05	3.96E-03	2.33E-02
1.71E-03	1.37E-02	3.47E-03	8.99E-05	3.91E-03	3.91E-03	2.68E-02	1.71E-03	1.37E-02	3.47E-03	8.99E-05	7.73E-05	3.91E-03	2.29E-02
1.68E-03	1.35E-02	3.47E-03	9.00E-05	3.88E-03	3.88E-03	2.65E-02	1.68E-03	1.35E-02	3.47E-03	9.00E-05	7.76E-05	3.88E-03	2.27E-02
1.84E-03	1.31E-02	3.40E-03	8.78E-05	3.83E-03	3.83E-03	2.61E-02	1.84E-03	1.31E-02	3.40E-03	8.78E-05	7.52E-05	3.83E-03	2.23E-02
1.80E-03	1.29E-02	3.40E-03	8.79E-05	3.80E-03	3.80E-03	2.58E-02	1.80E-03	1.29E-02	3.40E-03	8.79E-05	7.55E-05	3.80E-03	2.21E-02
1.99E-03	1.25E-02	3.33E-03	8.57E-05	3.75E-03	3.75E-03	2.54E-02	1.99E-03	1.25E-02	3.33E-03	8.57E-05	7.31E-05	3.75E-03	2.17E-02
1.95E-03	1.23E-02	3.33E-03	8.58E-05	3.72E-03	3.72E-03	2.51E-02	1.95E-03	1.23E-02	3.33E-03	8.58E-05	7.34E-05	3.72E-03	2.15E-02
2.17E-03	1.19E-02	3.26E-03	8.36E-05	3.67E-03	3.67E-03	2.47E-02	2.17E-03	1.19E-02	3.26E-03	8.36E-05	7.10E-05	3.67E-03	2.11E-02
2.12E-03	1.18E-02	3.26E-03	8.37E-05	3.65E-03	3.65E-03	2.45E-02	2.12E-03	1.18E-02	3.26E-03	8.37E-05	7.14E-05	3.65E-03	2.09E-02
1.49E-03	2.23E-02	1.59E-02	4.54E-04	1.31E-02	1.31E-02	6.63E-02	1.49E-03	2.23E-02	1.59E-02	4.54E-04	2.49E-04	1.31E-02	5.35E-02
1.45E-03	2.18E-02	1.57E-02	4.46E-04	1.28E-02	1.28E-02	6.49E-02	1.45E-03	2.18E-02	1.57E-02	4.46E-04	2.50E-04	1.28E-02	5.24E-02
1.40E-03	2.10E-02	1.55E-02	4.38E-04	1.24E-02	1.24E-02	6.31E-02	1.40E-03	2.10E-02	1.55E-02	4.38E-04	2.51E-04	1.24E-02	5.10E-02
1.36E-03	2.05E-02	1.53E-02	4.30E-04	1.21E-02	1.21E-02	6.18E-02	1.36E-03	2.05E-02	1.53E-02	4.30E-04	2.51E-04	1.21E-02	4.99E-02
1.33E-03	2.01E-02	1.51E-02	4.23E-04	1.19E-02	1.19E-02	6.07E-02	1.33E-03	2.01E-02	1.51E-02	4.23E-04	2.51E-04	1.19E-02	4.90E-02
1.30E-03	1.96E-02	1.49E-02	4.16E-04	1.16E-02	1.16E-02	5.95E-02	1.30E-03	1.96E-02	1.49E-02	4.16E-04	2.51E-04	1.16E-02	4.81E-02
1.27E-03	1.94E-02	1.47E-02	4.10E-04	1.15E-02	1.15E-02	5.87E-02	1.27E-03	1.94E-02	1.47E-02	4.10E-04	2.51E-04	1.15E-02	4.75E-02
1.24E-03	1.88E-02	1.45E-02	4.04E-04	1.12E-02	1.12E-02	5.73E-02	1.24E-03	1.88E-02	1.45E-02	4.04E-04	2.51E-04	1.12E-02	4.63E-02
1.21E-03	1.84E-02	1.43E-02	3.97E-04	1.09E-02	1.09E-02	5.61E-02	1.21E-03	1.84E-02	1.43E-02	3.97E-04	2.50E-04	1.09E-02	4.54E-02
1.18E-03	1.79E-02	1.41E-02	3.91E-04	1.07E-02	1.07E-02	5.49E-02	1.18E-03	1.79E-02	1.41E-02	3.91E-04	2.50E-04	1.07E-02	4.44E-02
1.14E-03	1.73E-02	1.38E-02	3.85E-04	1.04E-02	1.04E-02	5.35E-02	1.14E-03	1.73E-02	1.38E-02	3.85E-04	2.49E-04	1.04E-02	4.33E-02
1.55E-03	2.51E-02	1.53E-02	4.38E-04	1.34E-02	1.34E-02	6.92E-02	1.55E-03	2.51E-02	1.53E-02	4.38E-04	2.40E-04	1.34E-02	5.60E-02
1.51E-03	2.43E-02	1.51E-02	4.31E-04	1.30E-02	1.30E-02	6.75E-02	1.51E-03	2.43E-02	1.51E-02	4.31E-04	2.41E-04	1.30E-02	5.47E-02
1.46E-03	2.35E-02	1.50E-02	4.23E-04	1.27E-02	1.27E-02	6.57E-02	1.46E-03	2.35E-02	1.50E-02	4.23E-04	2.42E-04	1.27E-02	5.33E-02
1.41E-03	2.27E-02	1.48E-02	4.15E-04	1.23E-02	1.23E-02	6.39E-02	1.41E-03	2.27E-02	1.48E-02	4.15E-04	2.43E-04	1.23E-02	5.18E-02
1.37E-03	2.21E-02	1.46E-02	4.09E-04	1.20E-02	1.20E-02	6.25E-02	1.37E-03	2.21E-02	1.46E-02	4.09E-04	2.43E-04	1.20E-02	5.07E-02
1.33E-03	2.14E-02	1.44E-02	4.02E-04	1.17E-02	1.17E-02	6.10E-02	1.33E-03	2.14E-02	1.44E-02	4.02E-04	2.43E-04	1.17E-02	4.95E-02
1.30E-03	2.08E-02	1.41E-02	3.96E-04	1.15E-02	1.15E-02	5.96E-02	1.30E-03	2.08E-02	1.41E-02	3.96E-04	2.43E-04	1.15E-02	4.84E-02
1.26E-03	2.03E-02	1.39E-02	3.89E-04	1.12E-02	1.12E-02	5.83E-02	1.26E-03	2.03E-02	1.39E-02	3.89E-04	2.43E-04	1.12E-02	4.73E-02
1.23E-03	1.96E-02	1.38E-02	3.83E-04	1.09E-02	1.09E-02	5.68E-02	1.23E-03	1.96E-02	1.38E-02	3.83E-04	2.43E-04	1.09E-02	4.61E-02
1.19E-03	1.90E-02	1.36E-02	3.77E-04	1.07E-02	1.07E-02	5.54E-02	1.19E-03	1.90E-02	1.36E-02	3.77E-04	2.42E-04	1.07E-02	4.50E-02
1.16E-03	1.85E-02	1.34E-02	3.72E-04	1.04E-02	1.04E-02	5.42E-02	1.16E-03	1.85E-02	1.34E-02	3.72E-04	2.42E-04	1.04E-02	4.41E-02
1.62E-03	2.80E-02	1.48E-02	4.22E-04	1.36E-02	1.36E-02	7.21E-02	1.62E-03	2.80E-02	1.48E-02	4.22E-04	2.31E-04	1.36E-02	5.87E-02
1.56E-03	2.70E-02	1.46E-02	4.14E-04	1.32E-02	1.32E-02	7.01E-02	1.56E-03	2.70E-02	1.46E-02	4.14E-04	2.32E-04	1.32E-02	5.70E-02

1.51E-03	2.60E-02	1.44E-02	4.07E-04	1.29E-02	1.29E-02	6.81E-02	1.51E-03	2.60E-02	1.44E-02	4.07E-04	2.33E-04	1.29E-02	5.54E-02
1.47E-03	2.52E-02	1.42E-02	4.01E-04	1.26E-02	1.26E-02	6.65E-02	1.47E-03	2.52E-02	1.42E-02	4.01E-04	2.34E-04	1.26E-02	5.41E-02
1.42E-03	2.44E-02	1.41E-02	3.94E-04	1.23E-02	1.23E-02	6.48E-02	1.42E-03	2.44E-02	1.41E-02	3.94E-04	2.34E-04	1.23E-02	5.28E-02
1.38E-03	2.34E-02	1.39E-02	3.88E-04	1.19E-02	1.19E-02	6.29E-02	1.38E-03	2.34E-02	1.39E-02	3.88E-04	2.35E-04	1.19E-02	5.12E-02
1.33E-03	2.27E-02	1.36E-02	3.81E-04	1.16E-02	1.16E-02	6.12E-02	1.33E-03	2.27E-02	1.36E-02	3.81E-04	2.35E-04	1.16E-02	4.98E-02
1.29E-03	2.19E-02	1.34E-02	3.75E-04	1.13E-02	1.13E-02	5.95E-02	1.29E-03	2.19E-02	1.34E-02	3.75E-04	2.35E-04	1.13E-02	4.85E-02
1.25E-03	2.09E-02	1.32E-02	3.69E-04	1.09E-02	1.09E-02	5.75E-02	1.25E-03	2.09E-02	1.32E-02	3.69E-04	2.35E-04	1.09E-02	4.69E-02
1.22E-03	2.05E-02	1.31E-02	3.64E-04	1.07E-02	1.07E-02	5.65E-02	1.22E-03	2.05E-02	1.31E-02	3.64E-04	2.35E-04	1.07E-02	4.61E-02
1.19E-03	1.97E-02	1.29E-02	3.58E-04	1.04E-02	1.04E-02	5.50E-02	1.19E-03	1.97E-02	1.29E-02	3.58E-04	2.35E-04	1.04E-02	4.48E-02
1.68E-03	3.09E-02	1.42E-02	4.04E-04	1.38E-02	1.38E-02	7.47E-02	1.68E-03	3.09E-02	1.42E-02	4.04E-04	2.22E-04	1.38E-02	6.12E-02
1.63E-03	3.01E-02	1.40E-02	3.98E-04	1.35E-02	1.35E-02	7.31E-02	1.63E-03	3.01E-02	1.40E-02	3.98E-04	2.23E-04	1.35E-02	5.99E-02
1.57E-03	2.87E-02	1.39E-02	3.91E-04	1.31E-02	1.31E-02	7.07E-02	1.57E-03	2.87E-02	1.39E-02	3.91E-04	2.25E-04	1.31E-02	5.78E-02
1.53E-03	2.80E-02	1.37E-02	3.86E-04	1.28E-02	1.28E-02	6.92E-02	1.53E-03	2.80E-02	1.37E-02	3.86E-04	2.25E-04	1.28E-02	5.67E-02
1.48E-03	2.69E-02	1.36E-02	3.79E-04	1.24E-02	1.24E-02	6.71E-02	1.48E-03	2.69E-02	1.36E-02	3.79E-04	2.26E-04	1.24E-02	5.49E-02
1.42E-03	2.55E-02	1.33E-02	3.73E-04	1.20E-02	1.20E-02	6.45E-02	1.42E-03	2.55E-02	1.33E-02	3.73E-04	2.27E-04	1.20E-02	5.28E-02
1.37E-03	2.46E-02	1.31E-02	3.67E-04	1.17E-02	1.17E-02	6.28E-02	1.37E-03	2.46E-02	1.31E-02	3.67E-04	2.27E-04	1.17E-02	5.13E-02
1.34E-03	2.39E-02	1.30E-02	3.62E-04	1.14E-02	1.14E-02	6.14E-02	1.34E-03	2.39E-02	1.30E-02	3.62E-04	2.27E-04	1.14E-02	5.02E-02
1.29E-03	2.28E-02	1.28E-02	3.56E-04	1.10E-02	1.10E-02	5.93E-02	1.29E-03	2.28E-02	1.28E-02	3.56E-04	2.28E-04	1.10E-02	4.85E-02
1.25E-03	2.18E-02	1.26E-02	3.50E-04	1.07E-02	1.07E-02	5.74E-02	1.25E-03	2.18E-02	1.26E-02	3.50E-04	2.28E-04	1.07E-02	4.69E-02
1.21E-03	2.08E-02	1.24E-02	3.44E-04	1.04E-02	1.04E-02	5.55E-02	1.21E-03	2.08E-02	1.24E-02	3.44E-04	2.27E-04	1.04E-02	4.54E-02
1.77E-03	3.50E-02	1.36E-02	3.88E-04	1.41E-02	1.41E-02	7.90E-02	1.77E-03	3.50E-02	1.36E-02	3.88E-04	2.13E-04	1.41E-02	6.51E-02
1.71E-03	3.36E-02	1.35E-02	3.82E-04	1.37E-02	1.37E-02	7.66E-02	1.71E-03	3.36E-02	1.35E-02	3.82E-04	2.15E-04	1.37E-02	6.31E-02
1.65E-03	3.21E-02	1.33E-02	3.76E-04	1.33E-02	1.33E-02	7.42E-02	1.65E-03	3.21E-02	1.33E-02	3.76E-04	2.16E-04	1.33E-02	6.10E-02
1.59E-03	3.07E-02	1.32E-02	3.70E-04	1.29E-02	1.29E-02	7.17E-02	1.59E-03	3.07E-02	1.32E-02	3.70E-04	2.17E-04	1.29E-02	5.90E-02
1.53E-03	2.92E-02	1.30E-02	3.64E-04	1.25E-02	1.25E-02	6.91E-02	1.53E-03	2.92E-02	1.30E-02	3.64E-04	2.18E-04	1.25E-02	5.68E-02
1.47E-03	2.77E-02	1.28E-02	3.58E-04	1.21E-02	1.21E-02	6.65E-02	1.47E-03	2.77E-02	1.28E-02	3.58E-04	2.19E-04	1.21E-02	5.47E-02
1.42E-03	2.66E-02	1.26E-02	3.53E-04	1.17E-02	1.17E-02	6.46E-02	1.42E-03	2.66E-02	1.26E-02	3.53E-04	2.19E-04	1.17E-02	5.30E-02
1.37E-03	2.54E-02	1.25E-02	3.47E-04	1.14E-02	1.14E-02	6.24E-02	1.37E-03	2.54E-02	1.25E-02	3.47E-04	2.20E-04	1.14E-02	5.12E-02
1.32E-03	2.41E-02	1.23E-02	3.41E-04	1.10E-02	1.10E-02	6.00E-02	1.32E-03	2.41E-02	1.23E-02	3.41E-04	2.20E-04	1.10E-02	4.92E-02
1.28E-03	2.32E-02	1.21E-02	3.36E-04	1.07E-02	1.07E-02	5.83E-02	1.28E-03	2.32E-02	1.21E-02	3.36E-04	2.20E-04	1.07E-02	4.78E-02
1.23E-03	2.20E-02	1.19E-02	3.30E-04	1.03E-02	1.03E-02	5.61E-02	1.23E-03	2.20E-02	1.19E-02	3.30E-04	2.20E-04	1.03E-02	4.60E-02
1.86E-03	3.88E-02	1.31E-02	3.70E-04	1.43E-02	1.43E-02	8.27E-02	1.86E-03	3.88E-02	1.31E-02	3.70E-04	2.05E-04	1.43E-02	6.86E-02
1.79E-03	3.69E-02	1.29E-02	3.65E-04	1.39E-02	1.39E-02	7.97E-02	1.79E-03	3.69E-02	1.29E-02	3.65E-04	2.06E-04	1.39E-02	6.60E-02
1.71E-03	3.49E-02	1.28E-02	3.59E-04	1.34E-02	1.34E-02	7.66E-02	1.71E-03	3.49E-02	1.28E-02	3.59E-04	2.08E-04	1.34E-02	6.34E-02
1.65E-03	3.32E-02	1.27E-02	3.54E-04	1.30E-02	1.30E-02	7.39E-02	1.65E-03	3.32E-02	1.27E-02	3.54E-04	2.09E-04	1.30E-02	6.11E-02
1.58E-03	3.17E-02	1.25E-02	3.49E-04	1.26E-02	1.26E-02	7.12E-02	1.58E-03	3.17E-02	1.25E-02	3.49E-04	2.10E-04	1.26E-02	5.88E-02
1.51E-03	2.98E-02	1.23E-02	3.43E-04	1.21E-02	1.21E-02	6.81E-02	1.51E-03	2.98E-02	1.23E-02	3.43E-04	2.11E-04	1.21E-02	5.62E-02
1.47E-03	2.89E-02	1.22E-02	3.38E-04	1.18E-02	1.18E-02	6.65E-02	1.47E-03	2.89E-02	1.22E-02	3.38E-04	2.11E-04	1.18E-02	5.49E-02
1.41E-03	2.72E-02	1.20E-02	3.33E-04	1.14E-02	1.14E-02	6.37E-02	1.41E-03	2.72E-02	1.20E-02	3.33E-04	2.12E-04	1.14E-02	5.25E-02
1.36E-03	2.59E-02	1.18E-02	3.28E-04	1.10E-02	1.10E-02	6.14E-02	1.36E-03	2.59E-02	1.18E-02	3.28E-04	2.13E-04	1.10E-02	5.06E-02
1.31E-03	2.46E-02	1.16E-02	3.22E-04	1.06E-02	1.06E-02	5.91E-02	1.31E-03	2.46E-02	1.16E-02	3.22E-04	2.13E-04	1.06E-02	4.87E-02
1.25E-03	2.32E-02	1.14E-02	3.17E-04	1.02E-02	1.02E-02	5.67E-02	1.25E-03	2.32E-02	1.14E-02	3.17E-04	2.13E-04	1.02E-02	4.67E-02
1.96E-03	4.29E-02	1.25E-02	3.53E-04	1.45E-02	1.45E-02	8.67E-02	1.96E-03	4.29E-02	1.25E-02	3.53E-04	1.97E-04	1.45E-02	7.24E-02
1.87E-03	4.04E-02	1.24E-02	3.48E-04	1.40E-02	1.40E-02	8.30E-02	1.87E-03	4.04E-02	1.24E-02	3.48E-04	1.98E-04	1.40E-02	6.92E-02
1.78E-03	3.77E-02	1.23E-02	3.42E-04	1.34E-02	1.34E-02	7.89E-02	1.78E-03	3.77E-02	1.23E-02	3.42E-04	2.00E-04	1.34E-02	6.57E-02
1.69E-03	3.53E-02	1.21E-02	3.37E-04	1.29E-02	1.29E-02	7.52E-02	1.69E-03	3.53E-02	1.21E-02	3.37E-04	2.01E-04	1.29E-02	6.25E-02
1.64E-03	3.39E-02	1.20E-02	3.33E-04	1.25E-02	1.25E-02	7.29E-02	1.64E-03	3.39E-02	1.20E-02	3.33E-04	2.02E-04	1.25E-02	6.06E-02
1.56E-03	3.19E-02	1.18E-02	3.27E-04	1.21E-02	1.21E-02	6.97E-02	1.56E-03	3.19E-02	1.18E-02	3.27E-04	2.03E-04	1.21E-02	5.78E-02
1.52E-03	3.08E-02	1.17E-02	3.24E-04	1.18E-02	1.18E-02	6.80E-02	1.52E-03	3.08E-02	1.17E-02	3.24E-04	2.04E-04	1.18E-02	5.64E-02
1.45E-03	2.89E-02	1.15E-02	3.18E-04	1.13E-02	1.13E-02	6.49E-02	1.45E-03	2.89E-02	1.15E-02	3.18E-04	2.05E-04	1.13E-02	5.37E-02
1.39E-03	2.73E-02	1.13E-02	3.13E-04	1.09E-02	1.09E-02	6.22E-02	1.39E-03	2.73E-02	1.13E-02	3.13E-04	2.05E-04	1.09E-02	5.15E-02
1.34E-03	2.58E-02	1.12E-02	3.08E-04	1.05E-02	1.05E-02	5.97E-02	1.34E-03	2.58E-02	1.12E-02	3.08E-04	2.05E-04	1.05E-02	4.94E-02
1.29E-03	2.46E-02	1.10E-02	3.04E-04	1.02E-02	1.02E-02	5.75E-02	1.29E-03	2.46E-02	1.10E-02	3.04E-04	2.06E-04	1.02E-02	4.75E-02
2.07E-03	4.71E-02	1.20E-02	3.36E-04	1.46E-02	1.46E-02	9.06E-02	2.07E-03	4.71E-02	1.20E-02	3.36E-04	1.89E-04	1.46E-02	7.63E-02

1.95E-03	4.35E-02	1.19E-02	3.31E-04	1.39E-02	1.39E-02	8.54E-02	1.95E-03	4.35E-02	1.19E-02	3.31E-04	1.91E-04	1.39E-02	7.17E-02
1.85E-03	4.06E-02	1.18E-02	3.26E-04	1.34E-02	1.34E-02	8.13E-02	1.85E-03	4.06E-02	1.18E-02	3.26E-04	1.92E-04	1.34E-02	6.82E-02
1.77E-03	3.83E-02	1.16E-02	3.21E-04	1.29E-02	1.29E-02	7.77E-02	1.77E-03	3.83E-02	1.16E-02	3.21E-04	1.93E-04	1.29E-02	6.50E-02
1.68E-03	3.57E-02	1.14E-02	3.16E-04	1.24E-02	1.24E-02	7.39E-02	1.68E-03	3.57E-02	1.14E-02	3.16E-04	1.94E-04	1.24E-02	6.18E-02
1.62E-03	3.41E-02	1.13E-02	3.12E-04	1.20E-02	1.20E-02	7.13E-02	1.62E-03	3.41E-02	1.13E-02	3.12E-04	1.95E-04	1.20E-02	5.95E-02
1.56E-03	3.26E-02	1.12E-02	3.09E-04	1.17E-02	1.17E-02	6.90E-02	1.56E-03	3.26E-02	1.12E-02	3.09E-04	1.96E-04	1.17E-02	5.75E-02
1.49E-03	3.05E-02	1.10E-02	3.04E-04	1.12E-02	1.12E-02	6.57E-02	1.49E-03	3.05E-02	1.10E-02	3.04E-04	1.97E-04	1.12E-02	5.47E-02
1.43E-03	2.87E-02	1.09E-02	2.99E-04	1.08E-02	1.08E-02	6.29E-02	1.43E-03	2.87E-02	1.09E-02	2.99E-04	1.98E-04	1.08E-02	5.23E-02
1.37E-03	2.71E-02	1.07E-02	2.94E-04	1.04E-02	1.04E-02	6.02E-02	1.37E-03	2.71E-02	1.07E-02	2.94E-04	1.98E-04	1.04E-02	5.00E-02
1.31E-03	2.57E-02	1.05E-02	2.90E-04	1.00E-02	1.00E-02	5.78E-02	1.31E-03	2.57E-02	1.05E-02	2.90E-04	1.98E-04	1.00E-02	4.80E-02
2.21E-03	5.23E-02	1.15E-02	3.20E-04	1.47E-02	1.47E-02	9.57E-02	2.21E-03	5.23E-02	1.15E-02	3.20E-04	1.82E-04	1.47E-02	8.12E-02
2.07E-03	4.80E-02	1.14E-02	3.15E-04	1.40E-02	1.40E-02	8.98E-02	2.07E-03	4.80E-02	1.14E-02	3.15E-04	1.83E-04	1.40E-02	7.60E-02
1.97E-03	4.50E-02	1.13E-02	3.11E-04	1.35E-02	1.35E-02	8.57E-02	1.97E-03	4.50E-02	1.13E-02	3.11E-04	1.84E-04	1.35E-02	7.23E-02
1.84E-03	4.08E-02	1.11E-02	3.05E-04	1.28E-02	1.28E-02	7.97E-02	1.84E-03	4.08E-02	1.11E-02	3.05E-04	1.86E-04	1.28E-02	6.71E-02
1.76E-03	3.83E-02	1.10E-02	3.01E-04	1.23E-02	1.23E-02	7.59E-02	1.76E-03	3.83E-02	1.10E-02	3.01E-04	1.87E-04	1.23E-02	6.38E-02
1.67E-03	3.57E-02	1.08E-02	2.97E-04	1.18E-02	1.18E-02	7.22E-02	1.67E-03	3.57E-02	1.08E-02	2.97E-04	1.88E-04	1.18E-02	6.06E-02
1.59E-03	3.32E-02	1.06E-02	2.92E-04	1.13E-02	1.13E-02	6.84E-02	1.59E-03	3.32E-02	1.06E-02	2.92E-04	1.89E-04	1.13E-02	5.73E-02
1.53E-03	3.17E-02	1.05E-02	2.89E-04	1.10E-02	1.10E-02	6.61E-02	1.53E-03	3.17E-02	1.05E-02	2.89E-04	1.89E-04	1.10E-02	5.52E-02
1.46E-03	3.00E-02	1.04E-02	2.85E-04	1.06E-02	1.06E-02	6.33E-02	1.46E-03	3.00E-02	1.04E-02	2.85E-04	1.90E-04	1.06E-02	5.29E-02
1.40E-03	2.81E-02	1.02E-02	2.80E-04	1.02E-02	1.02E-02	6.03E-02	1.40E-03	2.81E-02	1.02E-02	2.80E-04	1.90E-04	1.02E-02	5.03E-02
1.34E-03	2.65E-02	9.99E-03	2.75E-04	9.78E-03	9.78E-03	5.76E-02	1.34E-03	2.65E-02	9.99E-03	2.75E-04	1.90E-04	9.78E-03	4.80E-02
2.38E-03	5.84E-02	1.11E-02	3.04E-04	1.49E-02	1.49E-02	1.02E-01	2.38E-03	5.84E-02	1.11E-02	3.04E-04	1.75E-04	1.49E-02	8.72E-02
2.23E-03	5.35E-02	1.10E-02	3.00E-04	1.42E-02	1.42E-02	9.54E-02	2.23E-03	5.35E-02	1.10E-02	3.00E-04	1.76E-04	1.42E-02	8.14E-02
2.10E-03	4.94E-02	1.09E-02	2.96E-04	1.36E-02	1.36E-02	8.99E-02	2.10E-03	4.94E-02	1.09E-02	2.96E-04	1.77E-04	1.36E-02	7.64E-02
1.98E-03	4.55E-02	1.07E-02	2.92E-04	1.30E-02	1.30E-02	8.45E-02	1.98E-03	4.55E-02	1.07E-02	2.92E-04	1.78E-04	1.30E-02	7.17E-02
1.85E-03	4.16E-02	1.05E-02	2.88E-04	1.24E-02	1.24E-02	7.90E-02	1.85E-03	4.16E-02	1.05E-02	2.88E-04	1.80E-04	1.24E-02	6.68E-02
1.77E-03	3.90E-02	1.04E-02	2.84E-04	1.19E-02	1.19E-02	7.53E-02	1.77E-03	3.90E-02	1.04E-02	2.84E-04	1.81E-04	1.19E-02	6.35E-02
1.64E-03	3.49E-02	1.02E-02	2.77E-04	1.12E-02	1.12E-02	6.94E-02	1.64E-03	3.49E-02	1.02E-02	2.77E-04	1.81E-04	1.12E-02	5.84E-02
1.58E-03	3.31E-02	1.01E-02	2.74E-04	1.08E-02	1.08E-02	6.67E-02	1.58E-03	3.31E-02	1.01E-02	2.74E-04	1.82E-04	1.08E-02	5.60E-02
1.49E-03	3.06E-02	9.84E-03	2.69E-04	1.03E-02	1.03E-02	6.28E-02	1.49E-03	3.06E-02	9.84E-03	2.69E-04	1.82E-04	1.03E-02	5.27E-02
1.43E-03	2.91E-02	9.70E-03	2.66E-04	9.96E-03	9.96E-03	6.05E-02	1.43E-03	2.91E-02	9.70E-03	2.66E-04	1.83E-04	9.96E-03	5.07E-02
1.38E-03	2.77E-02	9.54E-03	2.62E-04	9.62E-03	9.62E-03	5.81E-02	1.38E-03	2.77E-02	9.54E-03	2.62E-04	1.83E-04	9.62E-03	4.87E-02
2.58E-03	6.53E-02	1.06E-02	2.89E-04	1.51E-02	1.51E-02	1.09E-01	2.58E-03	6.53E-02	1.06E-02	2.89E-04	1.69E-04	1.51E-02	9.40E-02
2.45E-03	6.12E-02	1.05E-02	2.87E-04	1.46E-02	1.46E-02	1.04E-01	2.45E-03	6.12E-02	1.05E-02	2.87E-04	1.70E-04	1.46E-02	8.92E-02
2.25E-03	5.43E-02	1.05E-02	2.82E-04	1.37E-02	1.37E-02	9.47E-02	2.25E-03	5.43E-02	1.05E-02	2.82E-04	1.71E-04	1.37E-02	8.12E-02
2.11E-03	4.97E-02	1.03E-02	2.79E-04	1.31E-02	1.31E-02	8.85E-02	2.11E-03	4.97E-02	1.03E-02	2.79E-04	1.72E-04	1.31E-02	7.56E-02
2.00E-03	4.64E-02	1.02E-02	2.76E-04	1.26E-02	1.26E-02	8.41E-02	2.00E-03	4.64E-02	1.02E-02	2.76E-04	1.73E-04	1.26E-02	7.17E-02
1.88E-03	4.27E-02	1.00E-02	2.72E-04	1.20E-02	1.20E-02	7.90E-02	1.88E-03	4.27E-02	1.00E-02	2.72E-04	1.74E-04	1.20E-02	6.72E-02
1.75E-03	3.83E-02	9.84E-03	2.66E-04	1.13E-02	1.13E-02	7.28E-02	1.75E-03	3.83E-02	9.84E-03	2.66E-04	1.74E-04	1.13E-02	6.17E-02
1.66E-03	3.57E-02	9.70E-03	2.63E-04	1.09E-02	1.09E-02	6.91E-02	1.66E-03	3.57E-02	9.70E-03	2.63E-04	1.75E-04	1.09E-02	5.83E-02
1.57E-03	3.30E-02	9.48E-03	2.58E-04	1.03E-02	1.03E-02	6.50E-02	1.57E-03	3.30E-02	9.48E-03	2.58E-04	1.75E-04	1.03E-02	5.48E-02
1.53E-03	3.21E-02	9.42E-03	2.57E-04	1.01E-02	1.01E-02	6.36E-02	1.53E-03	3.21E-02	9.42E-03	2.57E-04	1.76E-04	1.01E-02	5.36E-02
1.48E-03	3.11E-02	9.35E-03	2.55E-04	9.94E-03	9.94E-03	6.21E-02	1.48E-03	3.11E-02	9.35E-03	2.55E-04	1.77E-04	9.94E-03	5.23E-02
2.81E-03	7.23E-02	1.02E-02	2.75E-04	1.51E-02	1.51E-02	1.16E-01	2.81E-03	7.23E-02	1.02E-02	2.75E-04	1.63E-04	1.51E-02	1.01E-01
2.64E-03	6.69E-02	1.01E-02	2.72E-04	1.46E-02	1.46E-02	1.09E-01	2.64E-03	6.69E-02	1.01E-02	2.72E-04	1.64E-04	1.46E-02	9.46E-02
2.49E-03	6.25E-02	1.01E-02	2.70E-04	1.41E-02	1.41E-02	1.03E-01	2.49E-03	6.25E-02	1.01E-02	2.70E-04	1.65E-04	1.41E-02	8.96E-02
2.35E-03	5.82E-02	1.00E-02	2.68E-04	1.36E-02	1.36E-02	9.81E-02	2.35E-03	5.82E-02	1.00E-02	2.68E-04	1.65E-04	1.36E-02	8.46E-02
2.20E-03	5.33E-02	9.85E-03	2.65E-04	1.30E-02	1.30E-02	9.17E-02	2.20E-03	5.33E-02	9.85E-03	2.65E-04	1.66E-04	1.30E-02	7.89E-02
2.04E-03	4.77E-02	9.70E-03	2.61E-04	1.23E-02	1.23E-02	8.42E-02	2.04E-03	4.77E-02	9.70E-03	2.61E-04	1.67E-04	1.23E-02	7.21E-02
1.96E-03	4.57E-02	9.64E-03	2.59E-04	1.20E-02	1.20E-02	8.16E-02	1.96E-03	4.57E-02	9.64E-03	2.59E-04	1.68E-04	1.20E-02	6.98E-02
1.86E-03	4.25E-02	9.54E-03	2.57E-04	1.16E-02	1.16E-02	7.73E-02	1.86E-03	4.25E-02	9.54E-03	2.57E-04	1.69E-04	1.16E-02	6.59E-02
1.74E-03	3.87E-02	9.36E-03	2.52E-04	1.09E-02	1.09E-02	7.19E-02	1.74E-03	3.87E-02	9.36E-03	2.52E-04	1.69E-04	1.09E-02	6.12E-02
1.68E-03	3.72E-02	9.28E-03	2.50E-04	1.06E-02	1.06E-02	6.97E-02	1.68E-03	3.72E-02	9.28E-03	2.50E-04	1.70E-04	1.06E-02	5.92E-02
1.62E-03	3.57E-02	9.20E-03	2.49E-04	1.04E-02	1.04E-02	6.75E-02	1.62E-03	3.57E-02	9.20E-03	2.49E-04	1.71E-04	1.04E-02	5.73E-02

3.16E-03	8.30E-02	9.76E-03	2.62E-04	1.54E-02	1.54E-02	1.27E-01	3.16E-03	8.30E-02	9.76E-03	2.62E-04	1.58E-04	1.54E-02	1.12E-01
2.94E-03	7.63E-02	9.73E-03	2.60E-04	1.48E-02	1.48E-02	1.19E-01	2.94E-03	7.63E-02	9.73E-03	2.60E-04	1.58E-04	1.48E-02	1.04E-01
2.76E-03	7.07E-02	9.68E-03	2.58E-04	1.43E-02	1.43E-02	1.12E-01	2.76E-03	7.07E-02	9.68E-03	2.58E-04	1.59E-04	1.43E-02	9.79E-02
2.61E-03	6.64E-02	9.63E-03	2.57E-04	1.39E-02	1.39E-02	1.07E-01	2.61E-03	6.64E-02	9.63E-03	2.57E-04	1.59E-04	1.39E-02	9.29E-02
2.46E-03	6.20E-02	9.58E-03	2.55E-04	1.35E-02	1.35E-02	1.01E-01	2.46E-03	6.20E-02	9.58E-03	2.55E-04	1.60E-04	1.35E-02	8.79E-02
2.34E-03	5.84E-02	9.53E-03	2.53E-04	1.31E-02	1.31E-02	9.67E-02	2.34E-03	5.84E-02	9.53E-03	2.53E-04	1.61E-04	1.31E-02	8.38E-02
2.22E-03	5.43E-02	9.40E-03	2.51E-04	1.26E-02	1.26E-02	9.14E-02	2.22E-03	5.43E-02	9.40E-03	2.51E-04	1.62E-04	1.26E-02	7.90E-02
2.05E-03	4.86E-02	9.27E-03	2.48E-04	1.19E-02	1.19E-02	8.40E-02	2.05E-03	4.86E-02	9.27E-03	2.48E-04	1.62E-04	1.19E-02	7.22E-02
1.94E-03	4.52E-02	9.17E-03	2.45E-04	1.14E-02	1.14E-02	7.95E-02	1.94E-03	4.52E-02	9.17E-03	2.45E-04	1.63E-04	1.14E-02	6.82E-02
1.86E-03	4.31E-02	9.09E-03	2.44E-04	1.11E-02	1.11E-02	7.66E-02	1.86E-03	4.31E-02	9.09E-03	2.44E-04	1.64E-04	1.11E-02	6.56E-02
1.77E-03	4.05E-02	8.99E-03	2.41E-04	1.07E-02	1.07E-02	7.30E-02	1.77E-03	4.05E-02	8.99E-03	2.41E-04	1.65E-04	1.07E-02	6.24E-02
3.61E-03	9.63E-02	9.35E-03	2.50E-04	1.57E-02	1.57E-02	1.41E-01	3.61E-03	9.63E-02	9.35E-03	2.50E-04	1.53E-04	1.57E-02	1.25E-01
3.36E-03	8.95E-02	9.33E-03	2.49E-04	1.52E-02	1.52E-02	1.33E-01	3.36E-03	8.95E-02	9.33E-03	2.49E-04	1.53E-04	1.52E-02	1.18E-01
3.16E-03	8.35E-02	9.31E-03	2.47E-04	1.48E-02	1.48E-02	1.26E-01	3.16E-03	8.35E-02	9.31E-03	2.47E-04	1.53E-04	1.48E-02	1.11E-01
2.97E-03	7.80E-02	9.28E-03	2.46E-04	1.44E-02	1.44E-02	1.19E-01	2.97E-03	7.80E-02	9.28E-03	2.46E-04	1.54E-04	1.44E-02	1.05E-01
2.77E-03	7.18E-02	9.24E-03	2.45E-04	1.38E-02	1.38E-02	1.12E-01	2.77E-03	7.18E-02	9.24E-03	2.45E-04	1.54E-04	1.38E-02	9.80E-02
2.60E-03	6.63E-02	9.19E-03	2.43E-04	1.33E-02	1.33E-02	1.05E-01	2.60E-03	6.63E-02	9.19E-03	2.43E-04	1.55E-04	1.33E-02	9.18E-02
2.46E-03	6.18E-02	9.15E-03	2.42E-04	1.29E-02	1.29E-02	9.95E-02	2.46E-03	6.18E-02	9.15E-03	2.42E-04	1.56E-04	1.29E-02	8.68E-02
2.30E-03	5.67E-02	9.02E-03	2.39E-04	1.24E-02	1.24E-02	9.30E-02	2.30E-03	5.67E-02	9.02E-03	2.39E-04	1.57E-04	1.24E-02	8.08E-02
2.15E-03	5.19E-02	8.92E-03	2.37E-04	1.18E-02	1.18E-02	8.68E-02	2.15E-03	5.19E-02	8.92E-03	2.37E-04	1.57E-04	1.18E-02	7.52E-02
2.08E-03	4.99E-02	8.88E-03	2.36E-04	1.16E-02	1.16E-02	8.43E-02	2.08E-03	4.99E-02	8.88E-03	2.36E-04	1.58E-04	1.16E-02	7.29E-02
1.98E-03	4.70E-02	8.80E-03	2.34E-04	1.12E-02	1.12E-02	8.05E-02	1.98E-03	4.70E-02	8.80E-03	2.34E-04	1.59E-04	1.12E-02	6.94E-02
4.20E-03	1.13E-01	8.95E-03	2.38E-04	1.60E-02	1.60E-02	1.59E-01	4.20E-03	1.13E-01	8.95E-03	2.38E-04	1.48E-04	1.60E-02	1.43E-01
3.90E-03	1.05E-01	8.94E-03	2.37E-04	1.55E-02	1.55E-02	1.49E-01	3.90E-03	1.05E-01	8.94E-03	2.37E-04	1.48E-04	1.55E-02	1.34E-01
3.64E-03	9.77E-02	8.93E-03	2.37E-04	1.51E-02	1.51E-02	1.41E-01	3.64E-03	9.77E-02	8.93E-03	2.37E-04	1.48E-04	1.51E-02	1.26E-01
3.40E-03	9.08E-02	8.92E-03	2.36E-04	1.46E-02	1.46E-02	1.33E-01	3.40E-03	9.08E-02	8.92E-03	2.36E-04	1.49E-04	1.46E-02	1.18E-01
3.19E-03	8.46E-02	8.90E-03	2.35E-04	1.42E-02	1.42E-02	1.25E-01	3.19E-03	8.46E-02	8.90E-03	2.35E-04	1.49E-04	1.42E-02	1.11E-01
2.99E-03	7.88E-02	8.87E-03	2.34E-04	1.38E-02	1.38E-02	1.18E-01	2.99E-03	7.88E-02	8.87E-03	2.34E-04	1.50E-04	1.38E-02	1.05E-01
2.78E-03	7.16E-02	8.83E-03	2.32E-04	1.32E-02	1.32E-02	1.10E-01	2.78E-03	7.16E-02	8.83E-03	2.32E-04	1.50E-04	1.32E-02	9.68E-02
2.60E-03	6.58E-02	8.79E-03	2.31E-04	1.28E-02	1.28E-02	1.03E-01	2.60E-03	6.58E-02	8.79E-03	2.31E-04	1.51E-04	1.28E-02	9.04E-02
2.42E-03	5.98E-02	8.67E-03	2.29E-04	1.22E-02	1.22E-02	9.55E-02	2.42E-03	5.98E-02	8.67E-03	2.29E-04	1.52E-04	1.22E-02	8.35E-02
2.32E-03	5.73E-02	8.63E-03	2.28E-04	1.19E-02	1.19E-02	9.23E-02	2.32E-03	5.73E-02	8.63E-03	2.28E-04	1.52E-04	1.19E-02	8.05E-02
2.24E-03	5.54E-02	8.59E-03	2.27E-04	1.17E-02	1.17E-02	8.99E-02	2.24E-03	5.54E-02	8.59E-03	2.27E-04	1.53E-04	1.17E-02	7.83E-02
5.03E-03	1.36E-01	8.55E-03	2.27E-04	1.61E-02	1.61E-02	1.82E-01	5.03E-03	1.36E-01	8.55E-03	2.27E-04	1.44E-04	1.61E-02	1.66E-01
4.60E-03	1.24E-01	8.56E-03	2.27E-04	1.57E-02	1.57E-02	1.68E-01	4.60E-03	1.24E-01	8.56E-03	2.27E-04	1.44E-04	1.57E-02	1.53E-01
4.26E-03	1.15E-01	8.56E-03	2.26E-04	1.53E-02	1.53E-02	1.58E-01	4.26E-03	1.15E-01	8.56E-03	2.26E-04	1.44E-04	1.53E-02	1.43E-01
3.96E-03	1.06E-01	8.56E-03	2.25E-04	1.48E-02	1.48E-02	1.49E-01	3.96E-03	1.06E-01	8.56E-03	2.25E-04	1.44E-04	1.48E-02	1.34E-01
3.69E-03	9.89E-02	8.55E-03	2.25E-04	1.44E-02	1.44E-02	1.40E-01	3.69E-03	9.89E-02	8.55E-03	2.25E-04	1.44E-04	1.44E-02	1.26E-01
3.44E-03	9.14E-02	8.54E-03	2.24E-04	1.40E-02	1.40E-02	1.32E-01	3.44E-03	9.14E-02	8.54E-03	2.24E-04	1.45E-04	1.40E-02	1.18E-01
3.20E-03	8.42E-02	8.52E-03	2.23E-04	1.36E-02	1.36E-02	1.23E-01	3.20E-03	8.42E-02	8.52E-03	2.23E-04	1.45E-04	1.36E-02	1.10E-01
3.00E-03	7.83E-02	8.49E-03	2.22E-04	1.32E-02	1.32E-02	1.16E-01	3.00E-03	7.83E-02	8.49E-03	2.22E-04	1.46E-04	1.32E-02	1.03E-01
2.82E-03	7.26E-02	8.46E-03	2.21E-04	1.27E-02	1.27E-02	1.10E-01	2.82E-03	7.26E-02	8.46E-03	2.21E-04	1.46E-04	1.27E-02	9.70E-02
2.65E-03	6.74E-02	8.42E-03	2.20E-04	1.23E-02	1.23E-02	1.03E-01	2.65E-03	6.74E-02	8.42E-03	2.20E-04	1.47E-04	1.23E-02	9.12E-02
2.53E-03	6.44E-02	8.40E-03	2.20E-04	1.21E-02	1.21E-02	9.97E-02	2.53E-03	6.44E-02	8.40E-03	2.20E-04	1.47E-04	1.21E-02	8.78E-02
6.29E-03	1.69E-01	8.17E-03	2.17E-04	1.62E-02	1.62E-02	2.16E-01	6.29E-03	1.69E-01	8.17E-03	2.17E-04	1.40E-04	1.62E-02	2.00E-01
5.69E-03	1.53E-01	8.19E-03	2.16E-04	1.58E-02	1.58E-02	1.99E-01	5.69E-03	1.53E-01	8.19E-03	2.16E-04	1.40E-04	1.58E-02	1.83E-01
5.17E-03	1.38E-01	8.20E-03	2.16E-04	1.54E-02	1.54E-02	1.83E-01	5.17E-03	1.38E-01	8.20E-03	2.16E-04	1.40E-04	1.54E-02	1.67E-01
4.74E-03	1.27E-01	8.21E-03	2.16E-04	1.50E-02	1.50E-02	1.70E-01	4.74E-03	1.27E-01	8.21E-03	2.16E-04	1.40E-04	1.50E-02	1.55E-01
4.38E-03	1.17E-01	8.21E-03	2.15E-04	1.46E-02	1.46E-02	1.59E-01	4.38E-03	1.17E-01	8.21E-03	2.15E-04	1.40E-04	1.46E-02	1.45E-01
4.05E-03	1.08E-01	8.21E-03	2.15E-04	1.42E-02	1.42E-02	1.49E-01	4.05E-03	1.08E-01	8.21E-03	2.15E-04	1.40E-04	1.42E-02	1.35E-01
3.75E-03	9.98E-02	8.20E-03	2.14E-04	1.38E-02	1.38E-02	1.40E-01	3.75E-03	9.98E-02	8.20E-03	2.14E-04	1.40E-04	1.38E-02	1.26E-01
3.48E-03	9.20E-02	8.19E-03	2.14E-04	1.34E-02	1.34E-02	1.31E-01	3.48E-03	9.20E-02	8.19E-03	2.14E-04	1.41E-04	1.34E-02	1.17E-01
3.25E-03	8.52E-02	8.17E-03	2.13E-04	1.30E-02	1.30E-02	1.23E-01	3.25E-03	8.52E-02	8.17E-03	2.13E-04	1.41E-04	1.30E-02	1.10E-01
3.06E-03	7.99E-02	8.15E-03	2.12E-04	1.27E-02	1.27E-02	1.17E-01	3.06E-03	7.99E-02	8.15E-03	2.12E-04	1.42E-04	1.27E-02	1.04E-01

2.88E-03	7.45E-02	8.12E-03	2.12E-04	1.23E-02	1.23E-02	1.10E-01	2.88E-03	7.45E-02	8.12E-03	2.12E-04	1.42E-04	1.23E-02	9.82E-02
8.37E-03	2.20E-01	7.80E-03	2.07E-04	1.63E-02	1.63E-02	2.69E-01	8.37E-03	2.20E-01	7.80E-03	2.07E-04	1.36E-04	1.63E-02	2.52E-01
7.42E-03	1.96E-01	7.82E-03	2.06E-04	1.59E-02	1.59E-02	2.43E-01	7.42E-03	1.96E-01	7.82E-03	2.06E-04	1.36E-04	1.59E-02	2.27E-01
6.62E-03	1.77E-01	7.84E-03	2.06E-04	1.55E-02	1.55E-02	2.22E-01	6.62E-03	1.77E-01	7.84E-03	2.06E-04	1.36E-04	1.55E-02	2.07E-01
5.91E-03	1.57E-01	7.86E-03	2.07E-04	1.51E-02	1.51E-02	2.01E-01	5.91E-03	1.57E-01	7.86E-03	2.07E-04	1.36E-04	1.51E-02	1.86E-01
5.38E-03	1.44E-01	7.87E-03	2.06E-04	1.48E-02	1.48E-02	1.87E-01	5.38E-03	1.44E-01	7.87E-03	2.06E-04	1.36E-04	1.48E-02	1.72E-01
4.91E-03	1.31E-01	7.88E-03	2.06E-04	1.44E-02	1.44E-02	1.73E-01	4.91E-03	1.31E-01	7.88E-03	2.06E-04	1.36E-04	1.44E-02	1.59E-01
4.51E-03	1.20E-01	7.88E-03	2.06E-04	1.40E-02	1.40E-02	1.61E-01	4.51E-03	1.20E-01	7.88E-03	2.06E-04	1.36E-04	1.40E-02	1.47E-01
4.15E-03	1.10E-01	7.88E-03	2.05E-04	1.36E-02	1.36E-02	1.50E-01	4.15E-03	1.10E-01	7.88E-03	2.05E-04	1.36E-04	1.36E-02	1.36E-01
3.81E-03	1.00E-01	7.88E-03	2.05E-04	1.32E-02	1.32E-02	1.38E-01	3.81E-03	1.00E-01	7.88E-03	2.05E-04	1.37E-04	1.32E-02	1.25E-01
3.54E-03	9.26E-02	7.87E-03	2.04E-04	1.28E-02	1.28E-02	1.30E-01	3.54E-03	9.26E-02	7.87E-03	2.04E-04	1.37E-04	1.28E-02	1.17E-01
3.29E-03	8.55E-02	7.85E-03	2.04E-04	1.24E-02	1.24E-02	1.22E-01	3.29E-03	8.55E-02	7.85E-03	2.04E-04	1.38E-04	1.24E-02	1.09E-01
6.01E-03	1.62E-01	8.82E-03	2.37E-04	1.76E-02	1.76E-02	2.12E-01	6.01E-03	1.62E-01	8.82E-03	2.37E-04	1.47E-04	1.76E-02	1.95E-01
5.44E-03	1.47E-01	8.83E-03	2.37E-04	1.71E-02	1.71E-02	1.96E-01	5.44E-03	1.47E-01	8.83E-03	2.37E-04	1.47E-04	1.71E-02	1.79E-01
4.95E-03	1.34E-01	8.84E-03	2.37E-04	1.67E-02	1.67E-02	1.82E-01	4.95E-03	1.34E-01	8.84E-03	2.37E-04	1.47E-04	1.67E-02	1.65E-01
4.53E-03	1.22E-01	8.85E-03	2.36E-04	1.62E-02	1.62E-02	1.68E-01	4.53E-03	1.22E-01	8.85E-03	2.36E-04	1.47E-04	1.62E-02	1.52E-01
7.57E-03	2.00E-01	8.40E-03	2.26E-04	1.77E-02	1.77E-02	2.52E-01	7.57E-03	2.00E-01	8.40E-03	2.26E-04	1.44E-04	1.77E-02	2.34E-01
6.75E-03	1.81E-01	8.42E-03	2.25E-04	1.72E-02	1.72E-02	2.30E-01	6.75E-03	1.81E-01	8.42E-03	2.25E-04	1.43E-04	1.72E-02	2.13E-01
6.06E-03	1.63E-01	8.44E-03	2.25E-04	1.67E-02	1.67E-02	2.11E-01	6.06E-03	1.63E-01	8.44E-03	2.25E-04	1.43E-04	1.67E-02	1.95E-01
5.51E-03	1.49E-01	8.46E-03	2.25E-04	1.63E-02	1.63E-02	1.95E-01	5.51E-03	1.49E-01	8.46E-03	2.25E-04	1.43E-04	1.63E-02	1.79E-01
6.82E-03	1.82E-01	8.22E-03	2.19E-04	1.67E-02	1.67E-02	2.31E-01	6.82E-03	1.82E-01	8.22E-03	2.19E-04	1.41E-04	1.67E-02	2.14E-01
6.42E-03	1.72E-01	8.23E-03	2.19E-04	1.65E-02	1.65E-02	2.20E-01	6.42E-03	1.72E-01	8.23E-03	2.19E-04	1.40E-04	1.65E-02	2.04E-01
8.11E-03	2.13E-01	7.98E-03	2.13E-04	1.68E-02	1.68E-02	2.63E-01	8.11E-03	2.13E-01	7.98E-03	2.13E-04	1.39E-04	1.68E-02	2.47E-01
7.55E-03	2.00E-01	8.00E-03	2.12E-04	1.65E-02	1.65E-02	2.49E-01	7.55E-03	2.00E-01	8.00E-03	2.12E-04	1.38E-04	1.65E-02	2.33E-01
2.15E-03	4.97E-02	1.21E-02	3.42E-04	1.51E-02	1.51E-02	9.45E-02	2.15E-03	4.97E-02	1.21E-02	3.42E-04	1.88E-04	1.51E-02	7.96E-02
2.30E-03	5.51E-02	1.16E-02	3.25E-04	1.52E-02	1.52E-02	9.98E-02	2.30E-03	5.51E-02	1.16E-02	3.25E-04	1.81E-04	1.52E-02	8.47E-02
3.27E-03	8.29E-02	1.14E-02	3.22E-04	1.80E-02	1.80E-02	1.34E-01	3.27E-03	8.29E-02	1.14E-02	3.22E-04	1.72E-04	1.80E-02	1.16E-01
3.09E-03	7.81E-02	1.14E-02	3.20E-04	1.75E-02	1.75E-02	1.28E-01	3.09E-03	7.81E-02	1.14E-02	3.20E-04	1.72E-04	1.75E-02	1.11E-01
2.64E-03	6.63E-02	1.12E-02	3.12E-04	1.61E-02	1.61E-02	1.13E-01	2.64E-03	6.63E-02	1.12E-02	3.12E-04	1.73E-04	1.61E-02	9.67E-02
2.48E-03	6.17E-02	1.12E-02	3.09E-04	1.54E-02	1.54E-02	1.07E-01	2.48E-03	6.17E-02	1.12E-02	3.09E-04	1.75E-04	1.54E-02	9.13E-02
3.69E-03	9.64E-02	1.09E-02	3.04E-04	1.83E-02	1.83E-02	1.48E-01	3.69E-03	9.64E-02	1.09E-02	3.04E-04	1.66E-04	1.83E-02	1.30E-01
3.48E-03	9.10E-02	1.08E-02	3.02E-04	1.79E-02	1.79E-02	1.41E-01	3.48E-03	9.10E-02	1.08E-02	3.02E-04	1.66E-04	1.79E-02	1.24E-01
3.27E-03	8.54E-02	1.08E-02	3.00E-04	1.74E-02	1.74E-02	1.35E-01	3.27E-03	8.54E-02	1.08E-02	3.00E-04	1.66E-04	1.74E-02	1.17E-01
3.06E-03	7.94E-02	1.08E-02	2.97E-04	1.68E-02	1.68E-02	1.27E-01	3.06E-03	7.94E-02	1.08E-02	2.97E-04	1.67E-04	1.68E-02	1.10E-01
2.86E-03	7.33E-02	1.07E-02	2.95E-04	1.61E-02	1.61E-02	1.19E-01	2.86E-03	7.33E-02	1.07E-02	2.95E-04	1.68E-04	1.61E-02	1.03E-01
2.70E-03	6.87E-02	1.07E-02	2.93E-04	1.55E-02	1.55E-02	1.13E-01	2.70E-03	6.87E-02	1.07E-02	2.93E-04	1.69E-04	1.55E-02	9.81E-02
4.20E-03	1.12E-01	1.04E-02	2.87E-04	1.85E-02	1.85E-02	1.63E-01	4.20E-03	1.12E-01	1.04E-02	2.87E-04	1.61E-04	1.85E-02	1.45E-01
3.92E-03	1.04E-01	1.03E-02	2.85E-04	1.80E-02	1.80E-02	1.55E-01	3.92E-03	1.04E-01	1.03E-02	2.85E-04	1.61E-04	1.80E-02	1.37E-01
3.67E-03	9.76E-02	1.03E-02	2.83E-04	1.75E-02	1.75E-02	1.47E-01	3.67E-03	9.76E-02	1.03E-02	2.83E-04	1.61E-04	1.75E-02	1.29E-01
3.41E-03	9.01E-02	1.03E-02	2.82E-04	1.69E-02	1.69E-02	1.38E-01	3.41E-03	9.01E-02	1.03E-02	2.82E-04	1.62E-04	1.69E-02	1.21E-01
3.17E-03	8.33E-02	1.03E-02	2.80E-04	1.63E-02	1.63E-02	1.30E-01	3.17E-03	8.33E-02	1.03E-02	2.80E-04	1.62E-04	1.63E-02	1.14E-01
2.98E-03	7.77E-02	1.02E-02	2.78E-04	1.58E-02	1.58E-02	1.23E-01	2.98E-03	7.77E-02	1.02E-02	2.78E-04	1.63E-04	1.58E-02	1.07E-01
4.88E-03	1.31E-01	9.88E-03	2.72E-04	1.86E-02	1.86E-02	1.83E-01	4.88E-03	1.31E-01	9.88E-03	2.72E-04	1.57E-04	1.86E-02	1.64E-01
4.51E-03	1.21E-01	9.86E-03	2.70E-04	1.81E-02	1.81E-02	1.72E-01	4.51E-03	1.21E-01	9.86E-03	2.70E-04	1.57E-04	1.81E-02	1.54E-01
4.17E-03	1.13E-01	9.85E-03	2.69E-04	1.76E-02	1.76E-02	1.62E-01	4.17E-03	1.13E-01	9.85E-03	2.69E-04	1.57E-04	1.76E-02	1.45E-01
3.86E-03	1.04E-01	9.84E-03	2.67E-04	1.71E-02	1.71E-02	1.52E-01	3.86E-03	1.04E-01	9.84E-03	2.67E-04	1.57E-04	1.71E-02	1.35E-01
3.58E-03	9.57E-02	9.83E-03	2.66E-04	1.65E-02	1.65E-02	1.42E-01	3.58E-03	9.57E-02	9.83E-03	2.66E-04	1.57E-04	1.65E-02	1.26E-01
3.32E-03	8.80E-02	9.82E-03	2.64E-04	1.59E-02	1.59E-02	1.33E-01	3.32E-03	8.80E-02	9.82E-03	2.64E-04	1.58E-04	1.59E-02	1.17E-01
5.86E-03	1.57E-01	9.39E-03	2.57E-04	1.87E-02	1.87E-02	2.10E-01	5.86E-03	1.57E-01	9.39E-03	2.57E-04	1.53E-04	1.87E-02	1.91E-01
5.33E-03	1.44E-01	9.39E-03	2.56E-04	1.82E-02	1.82E-02	1.95E-01	5.33E-03	1.44E-01	9.39E-03	2.56E-04	1.53E-04	1.82E-02	1.77E-01
4.87E-03	1.32E-01	9.39E-03	2.55E-04	1.77E-02	1.77E-02	1.82E-01	4.87E-03	1.32E-01	9.39E-03	2.55E-04	1.52E-04	1.77E-02	1.65E-01
4.46E-03	1.21E-01	9.40E-03	2.54E-04	1.72E-02	1.72E-02	1.70E-01	4.46E-03	1.21E-01	9.40E-03	2.54E-04	1.52E-04	1.72E-02	1.52E-01
4.11E-03	1.11E-01	9.40E-03	2.53E-04	1.67E-02	1.67E-02	1.58E-01	4.11E-03	1.11E-01	9.40E-03	2.53E-04	1.52E-04	1.67E-02	1.42E-01
3.79E-03	1.02E-01	9.39E-03	2.52E-04	1.62E-02	1.62E-02	1.48E-01	3.79E-03	1.02E-01	9.39E-03	2.52E-04	1.53E-04	1.62E-02	1.32E-01

7.28E-03	1.92E-01	8.93E-03	2.43E-04	1.88E-02	1.88E-02	2.46E-01	7.28E-03	1.92E-01	8.93E-03	2.43E-04	1.50E-04	1.88E-02	2.28E-01
6.48E-03	1.73E-01	8.94E-03	2.42E-04	1.83E-02	1.83E-02	2.26E-01	6.48E-03	1.73E-01	8.94E-03	2.42E-04	1.49E-04	1.83E-02	2.07E-01
5.83E-03	1.57E-01	8.95E-03	2.42E-04	1.78E-02	1.78E-02	2.08E-01	5.83E-03	1.57E-01	8.95E-03	2.42E-04	1.48E-04	1.78E-02	1.90E-01
5.28E-03	1.43E-01	8.97E-03	2.41E-04	1.73E-02	1.73E-02	1.93E-01	5.28E-03	1.43E-01	8.97E-03	2.41E-04	1.48E-04	1.73E-02	1.75E-01
4.81E-03	1.30E-01	8.98E-03	2.41E-04	1.68E-02	1.68E-02	1.78E-01	4.81E-03	1.30E-01	8.98E-03	2.41E-04	1.48E-04	1.68E-02	1.61E-01
4.40E-03	1.18E-01	8.99E-03	2.40E-04	1.63E-02	1.63E-02	1.65E-01	4.40E-03	1.18E-01	8.99E-03	2.40E-04	1.48E-04	1.63E-02	1.49E-01
1.32E-02	3.27E-01	7.82E-03	2.11E-04	1.79E-02	1.79E-02	3.84E-01	1.32E-02	3.27E-01	7.82E-03	2.11E-04	1.39E-04	1.79E-02	3.67E-01
1.28E-02	3.17E-01	7.83E-03	2.11E-04	1.78E-02	1.78E-02	3.74E-01	1.28E-02	3.17E-01	7.83E-03	2.11E-04	1.39E-04	1.78E-02	3.56E-01
1.46E-02	3.58E-01	7.74E-03	2.08E-04	1.79E-02	1.79E-02	4.16E-01	1.46E-02	3.58E-01	7.74E-03	2.08E-04	1.39E-04	1.79E-02	3.99E-01
1.41E-02	3.46E-01	7.75E-03	2.08E-04	1.78E-02	1.78E-02	4.04E-01	1.41E-02	3.46E-01	7.75E-03	2.08E-04	1.39E-04	1.78E-02	3.86E-01
1.25E-02	3.04E-01	9.39E-03	2.64E-04	2.18E-02	2.18E-02	3.69E-01	1.25E-02	3.04E-01	9.39E-03	2.64E-04	1.59E-04	2.18E-02	3.48E-01
1.15E-02	2.82E-01	9.40E-03	2.63E-04	2.15E-02	2.15E-02	3.46E-01	1.15E-02	2.82E-01	9.40E-03	2.63E-04	1.58E-04	2.15E-02	3.25E-01
1.49E-02	3.54E-01	9.18E-03	2.57E-04	2.18E-02	2.18E-02	4.22E-01	1.49E-02	3.54E-01	9.18E-03	2.57E-04	1.58E-04	2.18E-02	4.01E-01
1.35E-02	3.25E-01	9.19E-03	2.57E-04	2.15E-02	2.15E-02	3.91E-01	1.35E-02	3.25E-01	9.19E-03	2.57E-04	1.57E-04	2.15E-02	3.70E-01
1.20E-02	2.92E-01	9.57E-03	2.70E-04	2.21E-02	2.21E-02	3.58E-01	1.20E-02	2.92E-01	9.57E-03	2.70E-04	1.61E-04	2.21E-02	3.36E-01
1.11E-02	2.72E-01	9.58E-03	2.70E-04	2.19E-02	2.19E-02	3.37E-01	1.11E-02	2.72E-01	9.58E-03	2.70E-04	1.60E-04	2.19E-02	3.15E-01
1.42E-02	3.39E-01	9.35E-03	2.63E-04	2.21E-02	2.21E-02	4.07E-01	1.42E-02	3.39E-01	9.35E-03	2.63E-04	1.59E-04	2.21E-02	3.85E-01
1.29E-02	3.12E-01	9.37E-03	2.63E-04	2.18E-02	2.18E-02	3.78E-01	1.29E-02	3.12E-01	9.37E-03	2.63E-04	1.59E-04	2.18E-02	3.57E-01
1.11E-02	2.61E-01	1.08E-02	3.19E-04	2.48E-02	2.48E-02	3.33E-01	1.11E-02	2.61E-01	1.08E-02	3.19E-04	1.72E-04	2.48E-02	3.08E-01
1.02E-02	2.45E-01	1.08E-02	3.19E-04	2.44E-02	2.44E-02	3.15E-01	1.02E-02	2.45E-01	1.08E-02	3.19E-04	1.72E-04	2.44E-02	2.90E-01
1.29E-02	3.01E-01	1.05E-02	3.09E-04	2.49E-02	2.49E-02	3.74E-01	1.29E-02	3.01E-01	1.05E-02	3.09E-04	1.71E-04	2.49E-02	3.50E-01
1.18E-02	2.79E-01	1.06E-02	3.09E-04	2.45E-02	2.45E-02	3.51E-01	1.18E-02	2.79E-01	1.06E-02	3.09E-04	1.70E-04	2.45E-02	3.26E-01
1.09E-02	2.37E-01	1.27E-02	4.16E-04	2.83E-02	2.83E-02	3.18E-01	1.09E-02	2.37E-01	1.27E-02	4.16E-04	1.87E-04	2.83E-02	2.90E-01
9.07E-03	2.03E-01	1.27E-02	4.12E-04	2.71E-02	2.71E-02	2.79E-01	9.07E-03	2.03E-01	1.27E-02	4.12E-04	1.85E-04	2.71E-02	2.52E-01
1.68E-02	3.47E-01	1.18E-02	3.72E-04	2.90E-02	2.90E-02	4.34E-01	1.68E-02	3.47E-01	1.18E-02	3.72E-04	1.83E-04	2.90E-02	4.05E-01
1.29E-02	2.82E-01	1.19E-02	3.71E-04	2.78E-02	2.78E-02	3.63E-01	1.29E-02	2.82E-01	1.19E-02	3.71E-04	1.82E-04	2.78E-02	3.35E-01
6.01E-03	1.98E-02	2.74E-02	1.61E-03	2.12E-02	2.12E-02	9.72E-02	6.01E-03	1.98E-02	2.74E-02	1.61E-03	2.43E-04	2.12E-02	7.63E-02
5.58E-03	1.98E-02	2.70E-02	1.51E-03	2.09E-02	2.09E-02	9.58E-02	5.58E-03	1.98E-02	2.70E-02	1.51E-03	2.43E-04	2.09E-02	7.51E-02
6.77E-03	2.20E-02	2.67E-02	1.74E-03	2.24E-02	2.24E-02	1.02E-01	6.77E-03	2.20E-02	2.67E-02	1.74E-03	2.39E-04	2.24E-02	7.99E-02
6.23E-03	2.20E-02	2.63E-02	1.62E-03	2.21E-02	2.21E-02	1.00E-01	6.23E-03	2.20E-02	2.63E-02	1.62E-03	2.38E-04	2.21E-02	7.85E-02
6.10E-03	2.10E-02	2.67E-02	1.61E-03	2.17E-02	2.17E-02	9.88E-02	6.10E-03	2.10E-02	2.67E-02	1.61E-03	2.40E-04	2.17E-02	7.74E-02
5.67E-03	2.10E-02	2.63E-02	1.51E-03	2.14E-02	2.14E-02	9.74E-02	5.67E-03	2.10E-02	2.63E-02	1.51E-03	2.40E-04	2.14E-02	7.62E-02
6.91E-03	2.36E-02	2.61E-02	1.75E-03	2.29E-02	2.29E-02	1.04E-01	6.91E-03	2.36E-02	2.61E-02	1.75E-03	2.36E-04	2.29E-02	8.15E-02
6.36E-03	2.36E-02	2.57E-02	1.62E-03	2.26E-02	2.26E-02	1.03E-01	6.36E-03	2.36E-02	2.57E-02	1.62E-03	2.36E-04	2.26E-02	8.01E-02
6.30E-03	2.26E-02	2.61E-02	1.63E-03	2.23E-02	2.23E-02	1.01E-01	6.30E-03	2.26E-02	2.61E-02	1.63E-03	2.37E-04	2.23E-02	7.92E-02
5.84E-03	2.26E-02	2.57E-02	1.52E-03	2.20E-02	2.20E-02	9.97E-02	5.84E-03	2.26E-02	2.57E-02	1.52E-03	2.37E-04	2.20E-02	7.79E-02
7.17E-03	2.57E-02	2.56E-02	1.77E-03	2.36E-02	2.36E-02	1.07E-01	7.17E-03	2.57E-02	2.56E-02	1.77E-03	2.34E-04	2.36E-02	8.40E-02
6.59E-03	2.57E-02	2.51E-02	1.64E-03	2.33E-02	2.33E-02	1.06E-01	6.59E-03	2.57E-02	2.51E-02	1.64E-03	2.33E-04	2.33E-02	8.25E-02
5.66E-03	1.19E-02	4.15E-02	1.60E-03	1.80E-02	1.80E-02	9.67E-02	5.66E-03	1.19E-02	4.15E-02	1.60E-03	2.85E-04	1.80E-02	7.90E-02
5.30E-03	1.20E-02	4.06E-02	1.53E-03	1.79E-02	1.79E-02	9.52E-02	5.30E-03	1.20E-02	4.06E-02	1.53E-03	2.84E-04	1.79E-02	7.76E-02
6.19E-03	1.24E-02	3.98E-02	1.70E-03	1.84E-02	1.84E-02	9.69E-02	6.19E-03	1.24E-02	3.98E-02	1.70E-03	2.80E-04	1.84E-02	7.88E-02
5.75E-03	1.25E-02	3.90E-02	1.62E-03	1.82E-02	1.82E-02	9.53E-02	5.75E-03	1.25E-02	3.90E-02	1.62E-03	2.79E-04	1.82E-02	7.74E-02
5.38E-03	1.25E-02	3.83E-02	1.54E-03	1.81E-02	1.81E-02	9.39E-02	5.38E-03	1.25E-02	3.83E-02	1.54E-03	2.79E-04	1.81E-02	7.61E-02
6.84E-03	1.30E-02	3.81E-02	1.81E-03	1.88E-02	1.88E-02	9.73E-02	6.84E-03	1.30E-02	3.81E-02	1.81E-03	2.75E-04	1.88E-02	7.88E-02
6.30E-03	1.31E-02	3.74E-02	1.72E-03	1.86E-02	1.86E-02	9.58E-02	6.30E-03	1.31E-02	3.74E-02	1.72E-03	2.74E-04	1.86E-02	7.74E-02
5.86E-03	1.31E-02	3.68E-02	1.63E-03	1.85E-02	1.85E-02	9.44E-02	5.86E-03	1.31E-02	3.68E-02	1.63E-03	2.73E-04	1.85E-02	7.62E-02
1.42E-03	4.54E-03	5.19E-02	1.81E-03	9.77E-03	9.77E-03	7.92E-02	1.42E-03	4.54E-03	5.19E-02	1.81E-03	1.68E-03	9.77E-03	7.11E-02
1.38E-03	4.56E-03	5.07E-02	1.75E-03	9.71E-03	9.71E-03	7.78E-02	1.38E-03	4.56E-03	5.07E-02	1.75E-03	1.62E-03	9.71E-03	6.97E-02
1.35E-03	4.57E-03	4.96E-02	1.69E-03	9.62E-03	9.62E-03	7.64E-02	1.35E-03	4.57E-03	4.96E-02	1.69E-03	1.57E-03	9.62E-03	6.84E-02
1.43E-03	4.60E-03	5.19E-02	1.77E-03	9.73E-03	9.73E-03	7.92E-02	1.43E-03	4.60E-03	5.19E-02	1.77E-03	1.52E-03	9.73E-03	7.10E-02
1.40E-03	4.61E-03	5.08E-02	1.71E-03	9.66E-03	9.66E-03	7.78E-02	1.40E-03	4.61E-03	5.08E-02	1.71E-03	1.47E-03	9.66E-03	6.96E-02
1.44E-03	4.67E-03	5.20E-02	1.73E-03	9.73E-03	9.73E-03	7.93E-02	1.44E-03	4.67E-03	5.20E-02	1.73E-03	1.38E-03	9.73E-03	7.09E-02
1.41E-03	4.48E-03	5.17E-02	1.85E-03	9.87E-03	9.87E-03	7.92E-02	1.41E-03	4.48E-03	5.17E-02	1.85E-03	1.88E-03	9.87E-03	7.12E-02
1.37E-03	4.51E-03	5.06E-02	1.79E-03	9.81E-03	9.81E-03	7.78E-02	1.37E-03	4.51E-03	5.06E-02	1.79E-03	1.80E-03	9.81E-03	6.98E-02

1.42E-03	4.53E-03	5.18E-02	1.82E-03	9.78E-03	9.78E-03	7.91E-02	1.42E-03	4.53E-03	5.18E-02	1.82E-03	1.70E-03	9.78E-03	7.10E-02
1.41E-03	4.37E-03	5.13E-02	2.01E-03	1.04E-02	1.04E-02	8.00E-02	1.41E-03	4.37E-03	5.13E-02	2.01E-03	2.55E-03	1.04E-02	7.21E-02
1.37E-03	4.38E-03	5.03E-02	1.94E-03	1.03E-02	1.03E-02	7.85E-02	1.37E-03	4.38E-03	5.03E-02	1.94E-03	2.43E-03	1.03E-02	7.07E-02
1.33E-03	4.38E-03	4.92E-02	1.88E-03	1.00E-02	1.00E-02	7.69E-02	1.33E-03	4.38E-03	4.92E-02	1.88E-03	2.33E-03	1.00E-02	6.92E-02
1.30E-03	4.40E-03	4.84E-02	1.81E-03	9.95E-03	9.95E-03	7.58E-02	1.30E-03	4.40E-03	4.84E-02	1.81E-03	2.22E-03	9.95E-03	6.81E-02
1.46E-03	4.40E-03	5.29E-02	2.04E-03	1.05E-02	1.05E-02	8.18E-02	1.46E-03	4.40E-03	5.29E-02	2.04E-03	2.45E-03	1.05E-02	7.38E-02
1.41E-03	4.40E-03	5.17E-02	1.97E-03	1.03E-02	1.03E-02	8.00E-02	1.41E-03	4.40E-03	5.17E-02	1.97E-03	2.34E-03	1.03E-02	7.21E-02
1.38E-03	4.40E-03	5.05E-02	1.91E-03	1.01E-02	1.01E-02	7.83E-02	1.38E-03	4.40E-03	5.05E-02	1.91E-03	2.24E-03	1.01E-02	7.05E-02
1.34E-03	4.43E-03	4.96E-02	1.84E-03	9.98E-03	9.98E-03	7.72E-02	1.34E-03	4.43E-03	4.96E-02	1.84E-03	2.14E-03	9.98E-03	6.93E-02
1.46E-03	4.43E-03	5.31E-02	2.00E-03	1.03E-02	1.03E-02	8.16E-02	1.46E-03	4.43E-03	5.31E-02	2.00E-03	2.23E-03	1.03E-02	7.36E-02
1.42E-03	4.44E-03	5.20E-02	1.93E-03	1.01E-02	1.01E-02	8.01E-02	1.42E-03	4.44E-03	5.20E-02	1.93E-03	2.13E-03	1.01E-02	7.21E-02
1.39E-03	4.46E-03	5.09E-02	1.87E-03	1.00E-02	1.00E-02	7.87E-02	1.39E-03	4.46E-03	5.09E-02	1.87E-03	2.04E-03	1.00E-02	7.07E-02
1.37E-03	4.22E-03	4.85E-02	2.27E-03	1.07E-02	1.07E-02	7.77E-02	1.37E-03	4.22E-03	4.85E-02	2.27E-03	3.36E-03	1.07E-02	7.04E-02
1.34E-03	4.23E-03	4.76E-02	2.18E-03	1.05E-02	1.05E-02	7.64E-02	1.34E-03	4.23E-03	4.76E-02	2.18E-03	3.23E-03	1.05E-02	6.91E-02
1.42E-03	4.22E-03	5.01E-02	2.34E-03	1.10E-02	1.10E-02	8.01E-02	1.42E-03	4.22E-03	5.01E-02	2.34E-03	3.47E-03	1.10E-02	7.26E-02
1.38E-03	4.24E-03	4.92E-02	2.25E-03	1.08E-02	1.08E-02	7.87E-02	1.38E-03	4.24E-03	4.92E-02	2.25E-03	3.32E-03	1.08E-02	7.12E-02
1.53E-03	4.59E-03	3.94E-02	2.42E-03	7.90E-03	7.90E-03	6.37E-02	1.53E-03	4.59E-03	3.94E-02	2.42E-03	3.34E-03	7.90E-03	5.92E-02
1.45E-03	4.53E-03	3.73E-02	2.26E-03	7.49E-03	7.49E-03	6.05E-02	1.45E-03	4.53E-03	3.73E-02	2.26E-03	3.09E-03	7.49E-03	5.61E-02
1.39E-03	4.51E-03	3.62E-02	2.17E-03	7.27E-03	7.27E-03	5.88E-02	1.39E-03	4.51E-03	3.62E-02	2.17E-03	2.94E-03	7.27E-03	5.45E-02
1.60E-03	4.54E-03	4.08E-02	2.55E-03	8.35E-03	8.35E-03	6.62E-02	1.60E-03	4.54E-03	4.08E-02	2.55E-03	3.57E-03	8.35E-03	6.14E-02
1.51E-03	4.49E-03	3.88E-02	2.38E-03	7.94E-03	7.94E-03	6.31E-02	1.51E-03	4.49E-03	3.88E-02	2.38E-03	3.31E-03	7.94E-03	5.85E-02
1.46E-03	4.48E-03	3.80E-02	2.30E-03	7.77E-03	7.77E-03	6.18E-02	1.46E-03	4.48E-03	3.80E-02	2.30E-03	3.18E-03	7.77E-03	5.72E-02
1.68E-03	4.50E-03	4.22E-02	2.68E-03	8.80E-03	8.80E-03	6.87E-02	1.68E-03	4.50E-03	4.22E-02	2.68E-03	3.81E-03	8.80E-03	6.37E-02
1.61E-03	4.48E-03	4.12E-02	2.57E-03	8.56E-03	8.56E-03	6.70E-02	1.61E-03	4.48E-03	4.12E-02	2.57E-03	3.63E-03	8.56E-03	6.21E-02
1.53E-03	4.46E-03	3.99E-02	2.44E-03	8.28E-03	8.28E-03	6.49E-02	1.53E-03	4.46E-03	3.99E-02	2.44E-03	3.44E-03	8.28E-03	6.01E-02
1.80E-03	4.50E-03	4.48E-02	2.90E-03	9.50E-03	9.50E-03	7.30E-02	1.80E-03	4.50E-03	4.48E-02	2.90E-03	4.19E-03	9.50E-03	6.76E-02
1.71E-03	4.47E-03	4.35E-02	2.76E-03	9.19E-03	9.19E-03	7.08E-02	1.71E-03	4.47E-03	4.35E-02	2.76E-03	3.96E-03	9.19E-03	6.56E-02
1.62E-03	4.44E-03	4.20E-02	2.61E-03	8.85E-03	8.85E-03	6.84E-02	1.62E-03	4.44E-03	4.20E-02	2.61E-03	3.73E-03	8.85E-03	6.32E-02
3.06E-03	9.25E-03	4.71E-02	1.14E-03	1.65E-02	1.65E-02	9.35E-02	3.06E-03	9.25E-03	4.71E-02	1.14E-03	3.43E-04	1.65E-02	7.74E-02
2.95E-03	9.28E-03	4.59E-02	1.11E-03	1.63E-02	1.63E-02	9.19E-02	2.95E-03	9.28E-03	4.59E-02	1.11E-03	3.43E-04	1.63E-02	7.59E-02
3.23E-03	9.61E-03	4.61E-02	1.16E-03	1.65E-02	1.65E-02	9.31E-02	3.23E-03	9.61E-03	4.61E-02	1.16E-03	3.30E-04	1.65E-02	7.69E-02
3.10E-03	9.64E-03	4.49E-02	1.13E-03	1.63E-02	1.63E-02	9.14E-02	3.10E-03	9.64E-03	4.49E-02	1.13E-03	3.30E-04	1.63E-02	7.54E-02
3.12E-03	1.00E-01	1.10E-03	2.81E-05	3.09E-04	3.09E-04	1.05E-01	3.12E-03	1.00E-01	1.10E-03	2.81E-05	2.03E-05	3.09E-04	1.05E-01
1.87E-03	6.17E-02	1.04E-03	3.45E-05	2.67E-04	2.67E-04	6.52E-02	1.87E-03	6.17E-02	1.04E-03	3.45E-05	2.93E-05	2.67E-04	6.50E-02
1.81E-03	5.99E-02	1.03E-03	3.48E-05	2.64E-04	2.64E-04	6.33E-02	1.81E-03	5.99E-02	1.03E-03	3.48E-05	3.00E-05	2.64E-04	6.31E-02
1.77E-03	5.86E-02	1.01E-03	3.52E-05	2.62E-04	2.62E-04	6.20E-02	1.77E-03	5.86E-02	1.01E-03	3.52E-05	3.07E-05	2.62E-04	6.17E-02
3.29E-03	1.05E-01	1.11E-03	2.86E-05	3.14E-04	3.14E-04	1.10E-01	3.29E-03	1.05E-01	1.11E-03	2.86E-05	2.06E-05	3.14E-04	1.10E-01
3.13E-03	1.00E-01	1.13E-03	2.91E-05	3.12E-04	3.12E-04	1.05E-01	3.13E-03	1.00E-01	1.13E-03	2.91E-05	2.10E-05	3.12E-04	1.05E-01
2.98E-03	9.62E-02	1.14E-03	2.96E-05	3.10E-04	3.10E-04	1.01E-01	2.98E-03	9.62E-02	1.14E-03	2.96E-05	2.15E-05	3.10E-04	1.01E-01
2.61E-03	8.53E-02	1.16E-03	3.12E-05	3.03E-04	3.03E-04	8.97E-02	2.61E-03	8.53E-02	1.16E-03	3.12E-05	2.34E-05	3.03E-04	8.94E-02
2.52E-03	8.26E-02	1.17E-03	3.19E-05	3.04E-04	3.04E-04	8.70E-02	2.52E-03	8.26E-02	1.17E-03	3.19E-05	2.42E-05	3.04E-04	8.67E-02
2.43E-03	7.98E-02	1.17E-03	3.25E-05	3.01E-04	3.01E-04	8.40E-02	2.43E-03	7.98E-02	1.17E-03	3.25E-05	2.50E-05	3.01E-04	8.37E-02
2.34E-03	7.70E-02	1.16E-03	3.31E-05	2.98E-04	2.98E-04	8.11E-02	2.34E-03	7.70E-02	1.16E-03	3.31E-05	2.58E-05	2.98E-04	8.08E-02
2.26E-03	7.46E-02	1.16E-03	3.37E-05	2.97E-04	2.97E-04	7.87E-02	2.26E-03	7.46E-02	1.16E-03	3.37E-05	2.67E-05	2.97E-04	7.84E-02
2.17E-03	7.16E-02	1.14E-03	3.41E-05	2.88E-04	2.88E-04	7.55E-02	2.17E-03	7.16E-02	1.14E-03	3.41E-05	2.74E-05	2.88E-04	7.52E-02
2.05E-03	6.75E-02	1.09E-03	3.41E-05	2.76E-04	2.76E-04	7.12E-02	2.05E-03	6.75E-02	1.09E-03	3.41E-05	2.80E-05	2.76E-04	7.10E-02
2.03E-03	6.74E-02	1.11E-03	3.51E-05	2.84E-04	2.84E-04	7.12E-02	2.03E-03	6.74E-02	1.11E-03	3.51E-05	2.92E-05	2.84E-04	7.09E-02
1.93E-03	6.37E-02	1.07E-03	3.51E-05	2.71E-04	2.71E-04	6.73E-02	1.93E-03	6.37E-02	1.07E-03	3.51E-05	2.97E-05	2.71E-04	6.71E-02
1.90E-03	6.31E-02	1.07E-03	3.58E-05	2.75E-04	2.75E-04	6.67E-02	1.90E-03	6.31E-02	1.07E-03	3.58E-05	3.07E-05	2.75E-04	6.65E-02
3.67E-03	1.15E-01	1.11E-03	2.86E-05	3.20E-04	3.20E-04	1.20E-01	3.67E-03	1.15E-01	1.11E-03	2.86E-05	2.05E-05	3.20E-04	1.20E-01
3.47E-03	1.10E-01	1.13E-03	2.91E-05	3.18E-04	3.18E-04	1.15E-01	3.47E-03	1.10E-01	1.13E-03	2.91E-05	2.08E-05	3.18E-04	1.15E-01
3.29E-03	1.05E-01	1.15E-03	2.95E-05	3.16E-04	3.16E-04	1.10E-01	3.29E-03	1.05E-01	1.15E-03	2.95E-05	2.13E-05	3.16E-04	1.10E-01
2.86E-03	9.28E-02	1.19E-03	3.14E-05	3.14E-04	3.14E-04	9.75E-02	2.86E-03	9.28E-02	1.19E-03	3.14E-05	2.31E-05	3.14E-04	9.72E-02
2.74E-03	8.91E-02	1.19E-03	3.19E-05	3.11E-04	3.11E-04	9.37E-02	2.74E-03	8.91E-02	1.19E-03	3.19E-05	2.38E-05	3.11E-04	9.34E-02

2.62E-03	8.56E-02	1.19E-03	3.25E-05	3.08E-04	3.08E-04	9.01E-02	2.62E-03	8.56E-02	1.19E-03	3.25E-05	2.45E-05	3.08E-04	8.98E-02
2.52E-03	8.25E-02	1.19E-03	3.31E-05	3.06E-04	3.06E-04	8.69E-02	2.52E-03	8.25E-02	1.19E-03	3.31E-05	2.53E-05	3.06E-04	8.66E-02
2.43E-03	7.97E-02	1.19E-03	3.37E-05	3.03E-04	3.03E-04	8.40E-02	2.43E-03	7.97E-02	1.19E-03	3.37E-05	2.62E-05	3.03E-04	8.37E-02
2.28E-03	7.47E-02	1.14E-03	3.36E-05	2.87E-04	2.87E-04	7.87E-02	2.28E-03	7.47E-02	1.14E-03	3.36E-05	2.66E-05	2.87E-04	7.85E-02
2.24E-03	7.38E-02	1.16E-03	3.46E-05	2.93E-04	2.93E-04	7.78E-02	2.24E-03	7.38E-02	1.16E-03	3.46E-05	2.78E-05	2.93E-04	7.76E-02
2.18E-03	7.25E-02	1.16E-03	3.54E-05	2.96E-04	2.96E-04	7.64E-02	2.18E-03	7.25E-02	1.16E-03	3.54E-05	2.88E-05	2.96E-04	7.62E-02
2.08E-03	6.88E-02	1.12E-03	3.55E-05	2.84E-04	2.84E-04	7.26E-02	2.08E-03	6.88E-02	1.12E-03	3.55E-05	2.95E-05	2.84E-04	7.24E-02
2.02E-03	6.72E-02	1.11E-03	3.61E-05	2.83E-04	2.83E-04	7.10E-02	2.02E-03	6.72E-02	1.11E-03	3.61E-05	3.04E-05	2.83E-04	7.07E-02
4.14E-03	1.27E-01	1.11E-03	2.86E-05	3.26E-04	3.26E-04	1.33E-01	4.14E-03	1.27E-01	1.11E-03	2.86E-05	2.04E-05	3.26E-04	1.33E-01
3.89E-03	1.21E-01	1.13E-03	2.90E-05	3.25E-04	3.25E-04	1.27E-01	3.89E-03	1.21E-01	1.13E-03	2.90E-05	2.07E-05	3.25E-04	1.26E-01
3.67E-03	1.15E-01	1.15E-03	2.95E-05	3.23E-04	3.23E-04	1.21E-01	3.67E-03	1.15E-01	1.15E-03	2.95E-05	2.11E-05	3.23E-04	1.20E-01
3.14E-03	1.01E-01	1.20E-03	3.13E-05	3.20E-04	3.20E-04	1.06E-01	3.14E-03	1.01E-01	1.20E-03	3.13E-05	2.27E-05	3.20E-04	1.05E-01
4.77E-03	1.43E-01	1.10E-03	2.86E-05	3.33E-04	3.33E-04	1.50E-01	4.77E-03	1.43E-01	1.10E-03	2.86E-05	2.04E-05	3.33E-04	1.49E-01
4.44E-03	1.35E-01	1.13E-03	2.91E-05	3.32E-04	3.32E-04	1.41E-01	4.44E-03	1.35E-01	1.13E-03	2.91E-05	2.07E-05	3.32E-04	1.41E-01
4.15E-03	1.28E-01	1.15E-03	2.96E-05	3.30E-04	3.30E-04	1.34E-01	4.15E-03	1.28E-01	1.15E-03	2.96E-05	2.10E-05	3.30E-04	1.33E-01
3.90E-03	1.21E-01	1.17E-03	3.01E-05	3.29E-04	3.29E-04	1.27E-01	3.90E-03	1.21E-01	1.17E-03	3.01E-05	2.14E-05	3.29E-04	1.27E-01
3.48E-03	1.10E-01	1.21E-03	3.13E-05	3.27E-04	3.27E-04	1.16E-01	3.48E-03	1.10E-01	1.21E-03	3.13E-05	2.25E-05	3.27E-04	1.15E-01
5.63E-03	1.64E-01	1.09E-03	2.87E-05	3.40E-04	3.40E-04	1.71E-01	5.63E-03	1.64E-01	1.09E-03	2.87E-05	2.05E-05	3.40E-04	1.71E-01
5.17E-03	1.53E-01	1.12E-03	2.92E-05	3.38E-04	3.38E-04	1.60E-01	5.17E-03	1.53E-01	1.12E-03	2.92E-05	2.07E-05	3.38E-04	1.59E-01
4.78E-03	1.43E-01	1.15E-03	2.97E-05	3.37E-04	3.37E-04	1.50E-01	4.78E-03	1.43E-01	1.15E-03	2.97E-05	2.10E-05	3.37E-04	1.50E-01
4.44E-03	1.35E-01	1.17E-03	3.01E-05	3.35E-04	3.35E-04	1.42E-01	4.44E-03	1.35E-01	1.17E-03	3.01E-05	2.13E-05	3.35E-04	1.41E-01
3.90E-03	1.21E-01	1.21E-03	3.13E-05	3.34E-04	3.34E-04	1.27E-01	3.90E-03	1.21E-01	1.21E-03	3.13E-05	2.22E-05	3.34E-04	1.27E-01
3.68E-03	1.16E-01	1.23E-03	3.19E-05	3.33E-04	3.33E-04	1.21E-01	3.68E-03	1.16E-01	1.23E-03	3.19E-05	2.28E-05	3.33E-04	1.21E-01
3.48E-03	1.10E-01	1.24E-03	3.25E-05	3.31E-04	3.31E-04	1.16E-01	3.48E-03	1.10E-01	1.24E-03	3.25E-05	2.34E-05	3.31E-04	1.16E-01
3.30E-03	1.05E-01	1.25E-03	3.31E-05	3.29E-04	3.29E-04	1.11E-01	3.30E-03	1.05E-01	1.25E-03	3.31E-05	2.40E-05	3.29E-04	1.10E-01
6.21E-03	1.77E-01	1.11E-03	2.93E-05	3.45E-04	3.45E-04	1.85E-01	6.21E-03	1.77E-01	1.11E-03	2.93E-05	2.08E-05	3.45E-04	1.84E-01
5.65E-03	1.64E-01	1.14E-03	2.97E-05	3.43E-04	3.43E-04	1.72E-01	5.65E-03	1.64E-01	1.14E-03	2.97E-05	2.10E-05	3.43E-04	1.71E-01
5.18E-03	1.53E-01	1.16E-03	3.02E-05	3.42E-04	3.42E-04	1.60E-01	5.18E-03	1.53E-01	1.16E-03	3.02E-05	2.13E-05	3.42E-04	1.60E-01
4.46E-03	1.36E-01	1.21E-03	3.13E-05	3.41E-04	3.41E-04	1.42E-01	4.46E-03	1.36E-01	1.21E-03	3.13E-05	2.21E-05	3.41E-04	1.42E-01
4.17E-03	1.28E-01	1.23E-03	3.20E-05	3.41E-04	3.41E-04	1.34E-01	4.17E-03	1.28E-01	1.23E-03	3.20E-05	2.26E-05	3.41E-04	1.34E-01
3.91E-03	1.22E-01	1.25E-03	3.25E-05	3.39E-04	3.39E-04	1.28E-01	3.91E-03	1.22E-01	1.25E-03	3.25E-05	2.31E-05	3.39E-04	1.28E-01
3.69E-03	1.16E-01	1.26E-03	3.31E-05	3.37E-04	3.37E-04	1.22E-01	3.69E-03	1.16E-01	1.26E-03	3.31E-05	2.37E-05	3.37E-04	1.21E-01
3.49E-03	1.11E-01	1.28E-03	3.37E-05	3.37E-04	3.37E-04	1.16E-01	3.49E-03	1.11E-01	1.28E-03	3.37E-05	2.44E-05	3.37E-04	1.16E-01
3.32E-03	1.06E-01	1.29E-03	3.46E-05	3.39E-04	3.39E-04	1.12E-01	3.32E-03	1.06E-01	1.29E-03	3.46E-05	2.52E-05	3.39E-04	1.11E-01
3.17E-03	1.02E-01	1.30E-03	3.54E-05	3.40E-04	3.40E-04	1.07E-01	3.17E-03	1.02E-01	1.30E-03	3.54E-05	2.61E-05	3.40E-04	1.07E-01
3.02E-03	9.80E-02	1.30E-03	3.59E-05	3.36E-04	3.36E-04	1.03E-01	3.02E-03	9.80E-02	1.30E-03	3.59E-05	2.69E-05	3.36E-04	1.03E-01
2.88E-03	9.39E-02	1.29E-03	3.64E-05	3.32E-04	3.32E-04	9.88E-02	2.88E-03	9.39E-02	1.29E-03	3.64E-05	2.77E-05	3.32E-04	9.85E-02
1.05E-02	2.67E-01	1.03E-03	2.86E-05	3.51E-04	3.51E-04	2.80E-01	1.05E-02	2.67E-01	1.03E-03	2.86E-05	2.08E-05	3.51E-04	2.79E-01
8.94E-03	2.36E-01	1.06E-03	2.90E-05	3.52E-04	3.52E-04	2.46E-01	8.94E-03	2.36E-01	1.06E-03	2.90E-05	2.09E-05	3.52E-04	2.46E-01
5.20E-03	1.54E-01	1.21E-03	3.14E-05	3.48E-04	3.48E-04	1.61E-01	5.20E-03	1.54E-01	1.21E-03	3.14E-05	2.20E-05	3.48E-04	1.60E-01
4.80E-03	1.44E-01	1.24E-03	3.20E-05	3.48E-04	3.48E-04	1.51E-01	4.80E-03	1.44E-01	1.24E-03	3.20E-05	2.25E-05	3.48E-04	1.51E-01
4.47E-03	1.36E-01	1.26E-03	3.25E-05	3.46E-04	3.46E-04	1.43E-01	4.47E-03	1.36E-01	1.26E-03	3.25E-05	2.29E-05	3.46E-04	1.42E-01
4.18E-03	1.29E-01	1.27E-03	3.31E-05	3.45E-04	3.45E-04	1.35E-01	4.18E-03	1.29E-01	1.27E-03	3.31E-05	2.35E-05	3.45E-04	1.35E-01
3.92E-03	1.22E-01	1.29E-03	3.39E-05	3.46E-04	3.46E-04	1.28E-01	3.92E-03	1.22E-01	1.29E-03	3.39E-05	2.41E-05	3.46E-04	1.28E-01
3.70E-03	1.16E-01	1.30E-03	3.46E-05	3.46E-04	3.46E-04	1.22E-01	3.70E-03	1.16E-01	1.30E-03	3.46E-05	2.48E-05	3.46E-04	1.22E-01
3.50E-03	1.11E-01	1.31E-03	3.53E-05	3.47E-04	3.47E-04	1.17E-01	3.50E-03	1.11E-01	1.31E-03	3.53E-05	2.57E-05	3.47E-04	1.16E-01
3.33E-03	1.07E-01	1.32E-03	3.59E-05	3.43E-04	3.43E-04	1.12E-01	3.33E-03	1.07E-01	1.32E-03	3.59E-05	2.64E-05	3.43E-04	1.12E-01
3.17E-03	1.02E-01	1.32E-03	3.65E-05	3.41E-04	3.41E-04	1.07E-01	3.17E-03	1.02E-01	1.32E-03	3.65E-05	2.72E-05	3.41E-04	1.07E-01
1.60E-02	3.73E-01	1.01E-03	2.88E-05	3.57E-04	3.57E-04	3.91E-01	1.60E-02	3.73E-01	1.01E-03	2.88E-05	2.11E-05	3.57E-04	3.90E-01
1.27E-02	3.10E-01	1.05E-03	2.92E-05	3.58E-04	3.58E-04	3.25E-01	1.27E-02	3.10E-01	1.05E-03	2.92E-05	2.11E-05	3.58E-04	3.24E-01
6.26E-03	1.78E-01	1.21E-03	3.14E-05	3.55E-04	3.55E-04	1.87E-01	6.26E-03	1.78E-01	1.21E-03	3.14E-05	2.20E-05	3.55E-04	1.86E-01
5.68E-03	1.65E-01	1.23E-03	3.20E-05	3.55E-04	3.55E-04	1.73E-01	5.68E-03	1.65E-01	1.23E-03	3.20E-05	2.24E-05	3.55E-04	1.72E-01
5.21E-03	1.54E-01	1.26E-03	3.26E-05	3.54E-04	3.54E-04	1.61E-01	5.21E-03	1.54E-01	1.26E-03	3.26E-05	2.28E-05	3.54E-04	1.61E-01
4.82E-03	1.45E-01	1.28E-03	3.32E-05	3.53E-04	3.53E-04	1.51E-01	4.82E-03	1.45E-01	1.28E-03	3.32E-05	2.33E-05	3.53E-04	1.51E-01

4.48E-03	1.36E-01	1.30E-03	3.38E-05	3.53E-04	3.53E-04	1.43E-01	4.48E-03	1.36E-01	1.30E-03	3.38E-05	2.39E-05	3.53E-04	1.42E-01
4.19E-03	1.29E-01	1.31E-03	3.45E-05	3.54E-04	3.54E-04	1.35E-01	4.19E-03	1.29E-01	1.31E-03	3.45E-05	2.46E-05	3.54E-04	1.35E-01
3.93E-03	1.22E-01	1.33E-03	3.52E-05	3.53E-04	3.53E-04	1.28E-01	3.93E-03	1.22E-01	1.33E-03	3.52E-05	2.53E-05	3.53E-04	1.28E-01
3.71E-03	1.17E-01	1.33E-03	3.58E-05	3.50E-04	3.50E-04	1.23E-01	3.71E-03	1.17E-01	1.33E-03	3.58E-05	2.59E-05	3.50E-04	1.22E-01
3.51E-03	1.12E-01	1.33E-03	3.63E-05	3.46E-04	3.46E-04	1.17E-01	3.51E-03	1.12E-01	1.33E-03	3.63E-05	2.67E-05	3.46E-04	1.17E-01
5.87E-03	1.69E-01	1.25E-03	3.24E-05	3.58E-04	3.58E-04	1.77E-01	5.87E-03	1.69E-01	1.25E-03	3.24E-05	2.26E-05	3.58E-04	1.77E-01
5.37E-03	1.57E-01	1.27E-03	3.29E-05	3.58E-04	3.58E-04	1.65E-01	5.37E-03	1.57E-01	1.27E-03	3.29E-05	2.31E-05	3.58E-04	1.65E-01
4.95E-03	1.48E-01	1.29E-03	3.35E-05	3.57E-04	3.57E-04	1.55E-01	4.95E-03	1.48E-01	1.29E-03	3.35E-05	2.36E-05	3.57E-04	1.54E-01
4.59E-03	1.39E-01	1.31E-03	3.42E-05	3.57E-04	3.57E-04	1.46E-01	4.59E-03	1.39E-01	1.31E-03	3.42E-05	2.42E-05	3.57E-04	1.45E-01
4.29E-03	1.31E-01	1.33E-03	3.49E-05	3.57E-04	3.57E-04	1.38E-01	4.29E-03	1.31E-01	1.33E-03	3.49E-05	2.48E-05	3.57E-04	1.37E-01
4.02E-03	1.25E-01	1.34E-03	3.55E-05	3.54E-04	3.54E-04	1.31E-01	4.02E-03	1.25E-01	1.34E-03	3.55E-05	2.54E-05	3.54E-04	1.31E-01
3.79E-03	1.19E-01	1.34E-03	3.61E-05	3.51E-04	3.51E-04	1.25E-01	3.79E-03	1.19E-01	1.34E-03	3.61E-05	2.61E-05	3.51E-04	1.25E-01
5.89E-03	1.69E-01	1.29E-03	3.36E-05	3.65E-04	3.65E-04	1.77E-01	5.89E-03	1.69E-01	1.29E-03	3.36E-05	2.35E-05	3.65E-04	1.77E-01
5.39E-03	1.58E-01	1.32E-03	3.42E-05	3.65E-04	3.65E-04	1.65E-01	5.39E-03	1.58E-01	1.32E-03	3.42E-05	2.44E-05	3.65E-04	1.65E-01
4.97E-03	1.48E-01	1.33E-03	3.48E-05	3.63E-04	3.63E-04	1.55E-01	4.97E-03	1.48E-01	1.33E-03	3.48E-05	2.45E-05	3.63E-04	1.55E-01
4.62E-03	1.40E-01	1.34E-03	3.54E-05	3.60E-04	3.60E-04	1.47E-01	4.62E-03	1.40E-01	1.34E-03	3.54E-05	2.51E-05	3.60E-04	1.46E-01
4.30E-03	1.33E-01	1.35E-03	3.59E-05	3.57E-04	3.57E-04	1.39E-01	4.30E-03	1.33E-01	1.35E-03	3.59E-05	2.57E-05	3.57E-04	1.39E-01
6.55E-03	1.84E-01	1.31E-03	3.42E-05	3.71E-04	3.71E-04	1.93E-01	6.55E-03	1.84E-01	1.31E-03	3.42E-05	2.42E-05	3.71E-04	1.92E-01
5.93E-03	1.71E-01	1.34E-03	3.47E-05	3.70E-04	3.70E-04	1.79E-01	5.93E-03	1.71E-01	1.34E-03	3.47E-05	2.47E-05	3.70E-04	1.78E-01
5.43E-03	1.60E-01	1.35E-03	3.53E-05	3.67E-04	3.67E-04	1.67E-01	5.43E-03	1.60E-01	1.35E-03	3.53E-05	2.52E-05	3.67E-04	1.67E-01
5.00E-03	1.50E-01	1.36E-03	3.59E-05	3.64E-04	3.64E-04	1.57E-01	5.00E-03	1.50E-01	1.36E-03	3.59E-05	2.54E-05	3.64E-04	1.57E-01
4.63E-03	1.41E-01	1.37E-03	3.65E-05	3.61E-04	3.61E-04	1.48E-01	4.63E-03	1.41E-01	1.37E-03	3.65E-05	2.60E-05	3.61E-04	1.48E-01
4.31E-03	1.33E-01	1.38E-03	3.70E-05	3.56E-04	3.56E-04	1.40E-01	4.31E-03	1.33E-01	1.38E-03	3.70E-05	2.67E-05	3.56E-04	1.39E-01
4.01E-03	1.26E-01	1.37E-03	3.75E-05	3.50E-04	3.50E-04	1.32E-01	4.01E-03	1.26E-01	1.37E-03	3.75E-05	2.75E-05	3.50E-04	1.31E-01
6.61E-03	1.87E-01	1.35E-03	3.52E-05	3.73E-04	3.73E-04	1.96E-01	6.61E-03	1.87E-01	1.35E-03	3.52E-05	2.50E-05	3.73E-04	1.96E-01
5.98E-03	1.74E-01	1.37E-03	3.58E-05	3.69E-04	3.69E-04	1.82E-01	5.98E-03	1.74E-01	1.37E-03	3.58E-05	2.51E-05	3.69E-04	1.81E-01
5.45E-03	1.62E-01	1.38E-03	3.63E-05	3.65E-04	3.65E-04	1.69E-01	5.45E-03	1.62E-01	1.38E-03	3.63E-05	2.56E-05	3.65E-04	1.69E-01
5.00E-03	1.51E-01	1.39E-03	3.69E-05	3.61E-04	3.61E-04	1.58E-01	5.00E-03	1.51E-01	1.39E-03	3.69E-05	2.62E-05	3.61E-04	1.58E-01
4.60E-03	1.41E-01	1.39E-03	3.74E-05	3.55E-04	3.55E-04	1.48E-01	4.60E-03	1.41E-01	1.39E-03	3.74E-05	2.69E-05	3.55E-04	1.47E-01
8.08E-03	2.25E-01	1.65E-03	4.94E-05	4.17E-04	4.17E-04	2.35E-01	8.08E-03	2.25E-01	1.65E-03	4.94E-05	3.72E-05	4.17E-04	2.35E-01
7.13E-03	2.04E-01	1.64E-03	5.00E-05	4.15E-04	4.15E-04	2.14E-01	7.13E-03	2.04E-01	1.64E-03	5.00E-05	3.83E-05	4.15E-04	2.14E-01
6.37E-03	1.88E-01	1.62E-03	5.07E-05	4.11E-04	4.11E-04	1.96E-01	6.37E-03	1.88E-01	1.62E-03	5.07E-05	3.94E-05	4.11E-04	1.96E-01
5.74E-03	1.73E-01	1.60E-03	5.12E-05	4.08E-04	4.08E-04	1.81E-01	5.74E-03	1.73E-01	1.60E-03	5.12E-05	4.03E-05	4.08E-04	1.81E-01
1.11E-02	2.89E-01	1.69E-03	4.94E-05	4.25E-04	4.25E-04	3.03E-01	1.11E-02	2.89E-01	1.69E-03	4.94E-05	3.67E-05	4.25E-04	3.03E-01
9.38E-03	2.56E-01	1.68E-03	5.02E-05	4.23E-04	4.23E-04	2.68E-01	9.38E-03	2.56E-01	1.68E-03	5.02E-05	3.78E-05	4.23E-04	2.67E-01
8.11E-03	2.29E-01	1.67E-03	5.09E-05	4.19E-04	4.19E-04	2.40E-01	8.11E-03	2.29E-01	1.67E-03	5.09E-05	3.89E-05	4.19E-04	2.39E-01
7.13E-03	2.07E-01	1.65E-03	5.15E-05	4.17E-04	4.17E-04	2.16E-01	7.13E-03	2.07E-01	1.65E-03	5.15E-05	3.99E-05	4.17E-04	2.16E-01
6.43E-03	1.91E-01	1.65E-03	5.35E-05	4.21E-04	4.21E-04	2.00E-01	6.43E-03	1.91E-01	1.65E-03	5.35E-05	4.25E-05	4.21E-04	2.00E-01
5.80E-03	1.76E-01	1.63E-03	5.40E-05	4.20E-04	4.20E-04	1.84E-01	5.80E-03	1.76E-01	1.63E-03	5.40E-05	4.34E-05	4.20E-04	1.84E-01
8.27E-03	2.36E-01	1.70E-03	5.39E-05	4.31E-04	4.31E-04	2.47E-01	8.27E-03	2.36E-01	1.70E-03	5.39E-05	4.21E-05	4.31E-04	2.46E-01
7.25E-03	2.12E-01	1.68E-03	5.45E-05	4.29E-04	4.29E-04	2.22E-01	7.25E-03	2.12E-01	1.68E-03	5.45E-05	4.32E-05	4.29E-04	2.21E-01
6.47E-03	1.93E-01	1.66E-03	5.50E-05	4.29E-04	4.29E-04	2.02E-01	6.47E-03	1.93E-01	1.66E-03	5.50E-05	4.41E-05	4.29E-04	2.02E-01
1.15E-02	3.11E-01	1.74E-03	5.42E-05	4.40E-04	4.40E-04	3.26E-01	1.15E-02	3.11E-01	1.74E-03	5.42E-05	4.17E-05	4.40E-04	3.25E-01
9.68E-03	2.69E-01	1.73E-03	5.48E-05	4.39E-04	4.39E-04	2.82E-01	9.68E-03	2.69E-01	1.73E-03	5.48E-05	4.28E-05	4.39E-04	2.81E-01
8.33E-03	2.38E-01	1.71E-03	5.54E-05	4.39E-04	4.39E-04	2.49E-01	8.33E-03	2.38E-01	1.71E-03	5.54E-05	4.38E-05	4.39E-04	2.49E-01
2.97E-04	1.22E-03	2.20E-04	7.65E-06	8.24E-05	8.24E-05	1.91E-03	2.97E-04	1.22E-03	2.20E-04	7.65E-06	7.01E-06	8.24E-05	1.84E-03
2.96E-04	1.19E-03	2.07E-04	7.34E-06	7.97E-05	7.97E-05	1.85E-03	2.96E-04	1.19E-03	2.07E-04	7.34E-06	6.70E-06	7.97E-05	1.78E-03
3.40E-04	1.54E-03	2.15E-04	7.99E-06	8.70E-05	8.70E-05	2.27E-03	3.40E-04	1.54E-03	2.15E-04	7.99E-06	7.19E-06	8.70E-05	2.19E-03
3.29E-04	1.16E-03	1.81E-04	6.72E-06	8.08E-05	8.08E-05	1.83E-03	3.29E-04	1.16E-03	1.81E-04	6.72E-06	6.21E-06	8.08E-05	1.76E-03
3.38E-04	1.21E-03	1.91E-04	6.57E-06	8.84E-05	8.84E-05	1.93E-03	3.38E-04	1.21E-03	1.91E-04	6.57E-06	5.87E-06	8.84E-05	1.84E-03
3.43E-04	1.27E-03	2.08E-04	6.89E-06	9.63E-05	9.63E-05	2.02E-03	3.43E-04	1.27E-03	2.08E-04	6.89E-06	6.21E-06	9.63E-05	1.93E-03
3.64E-04	1.48E-03	2.69E-04	8.16E-06	1.08E-04	1.08E-04	2.34E-03	3.64E-04	1.48E-03	2.69E-04	8.16E-06	7.07E-06	1.08E-04	2.24E-03
3.75E-04	1.72E-03	3.40E-04	1.03E-05	1.15E-04	1.15E-04	2.68E-03	3.75E-04	1.72E-03	3.40E-04	1.03E-05	8.52E-06	1.15E-04	2.57E-03
3.78E-04	1.99E-03	3.74E-04	1.31E-05	1.21E-04	1.21E-04	3.00E-03	3.78E-04	1.99E-03	3.74E-04	1.31E-05	1.19E-05	1.21E-04	2.89E-03

3.68E-04	2.05E-03	3.65E-04	1.36E-05	1.17E-04	1.17E-04	3.03E-03	3.68E-04	2.05E-03	3.65E-04	1.36E-05	1.24E-05	1.17E-04	2.93E-03
3.51E-04	1.92E-03	3.14E-04	1.26E-05	1.06E-04	1.06E-04	2.81E-03	3.51E-04	1.92E-03	3.14E-04	1.26E-05	1.15E-05	1.06E-04	2.72E-03
3.31E-04	1.79E-03	2.72E-04	1.14E-05	9.75E-05	9.75E-05	2.60E-03	3.31E-04	1.79E-03	2.72E-04	1.14E-05	1.09E-05	9.75E-05	2.52E-03
3.14E-04	1.79E-03	2.43E-04	9.54E-06	9.35E-05	9.35E-05	2.54E-03	3.14E-04	1.79E-03	2.43E-04	9.54E-06	8.05E-06	9.35E-05	2.46E-03
2.94E-04	1.70E-03	2.20E-04	8.29E-06	8.85E-05	8.85E-05	2.40E-03	2.94E-04	1.70E-03	2.20E-04	8.29E-06	6.99E-06	8.85E-05	2.32E-03
2.82E-04	1.74E-03	2.07E-04	8.00E-06	8.62E-05	8.62E-05	2.41E-03	2.82E-04	1.74E-03	2.07E-04	8.00E-06	7.50E-06	8.62E-05	2.33E-03
2.72E-04	1.77E-03	1.98E-04	7.66E-06	8.01E-05	8.01E-05	2.41E-03	2.72E-04	1.77E-03	1.98E-04	7.66E-06	6.56E-06	8.01E-05	2.33E-03
2.67E-04	1.89E-03	1.94E-04	7.38E-06	7.87E-05	7.87E-05	2.51E-03	2.67E-04	1.89E-03	1.94E-04	7.38E-06	6.25E-06	7.87E-05	2.44E-03
2.56E-04	1.90E-03	1.81E-04	7.13E-06	7.75E-05	7.75E-05	2.50E-03	2.56E-04	1.90E-03	1.81E-04	7.13E-06	6.33E-06	7.75E-05	2.43E-03
2.39E-04	1.76E-03	1.61E-04	6.02E-06	7.36E-05	7.36E-05	2.31E-03	2.39E-04	1.76E-03	1.61E-04	6.02E-06	5.59E-06	7.36E-05	2.25E-03
2.28E-04	1.73E-03	1.50E-04	5.44E-06	6.91E-05	6.91E-05	2.25E-03	2.28E-04	1.73E-03	1.50E-04	5.44E-06	4.91E-06	6.91E-05	2.19E-03
2.19E-04	1.71E-03	1.40E-04	5.02E-06	6.65E-05	6.65E-05	2.21E-03	2.19E-04	1.71E-03	1.40E-04	5.02E-06	4.33E-06	6.65E-05	2.15E-03
2.09E-04	1.64E-03	1.32E-04	4.50E-06	6.46E-05	6.46E-05	2.12E-03	2.09E-04	1.64E-03	1.32E-04	4.50E-06	4.05E-06	6.46E-05	2.06E-03
1.99E-04	1.55E-03	1.20E-04	4.05E-06	6.29E-05	6.29E-05	2.00E-03	1.99E-04	1.55E-03	1.20E-04	4.05E-06	3.88E-06	6.29E-05	1.94E-03
1.77E-04	1.25E-03	1.03E-04	3.28E-06	5.85E-05	5.85E-05	1.65E-03	1.77E-04	1.25E-03	1.03E-04	3.28E-06	3.20E-06	5.85E-05	1.59E-03
1.66E-04	1.13E-03	9.44E-05	3.01E-06	5.61E-05	5.61E-05	1.51E-03	1.66E-04	1.13E-03	9.44E-05	3.01E-06	2.96E-06	5.61E-05	1.45E-03
1.79E-04	1.43E-03	1.04E-04	3.42E-06	6.08E-05	6.08E-05	1.84E-03	1.79E-04	1.43E-03	1.04E-04	3.42E-06	3.37E-06	6.08E-05	1.78E-03
1.77E-04	1.46E-03	1.02E-04	3.35E-06	6.11E-05	6.11E-05	1.87E-03	1.77E-04	1.46E-03	1.02E-04	3.35E-06	3.30E-06	6.11E-05	1.81E-03
1.73E-04	1.43E-03	9.72E-05	3.19E-06	5.95E-05	5.95E-05	1.83E-03	1.73E-04	1.43E-03	9.72E-05	3.19E-06	3.22E-06	5.95E-05	1.77E-03
1.67E-04	1.37E-03	9.24E-05	3.00E-06	5.65E-05	5.65E-05	1.75E-03	1.67E-04	1.37E-03	9.24E-05	3.00E-06	3.04E-06	5.65E-05	1.69E-03
1.67E-04	1.42E-03	9.15E-05	2.94E-06	5.43E-05	5.43E-05	1.79E-03	1.67E-04	1.42E-03	9.15E-05	2.94E-06	2.89E-06	5.43E-05	1.73E-03
1.65E-04	1.40E-03	8.86E-05	2.80E-06	5.29E-05	5.29E-05	1.76E-03	1.65E-04	1.40E-03	8.86E-05	2.80E-06	2.79E-06	5.29E-05	1.71E-03
1.58E-04	1.31E-03	8.34E-05	2.60E-06	5.02E-05	5.02E-05	1.65E-03	1.58E-04	1.31E-03	8.34E-05	2.60E-06	2.56E-06	5.02E-05	1.60E-03
1.56E-04	1.29E-03	8.18E-05	2.54E-06	4.82E-05	4.82E-05	1.63E-03	1.56E-04	1.29E-03	8.18E-05	2.54E-06	2.50E-06	4.82E-05	1.58E-03
1.50E-04	1.21E-03	7.80E-05	2.37E-06	4.63E-05	4.63E-05	1.53E-03	1.50E-04	1.21E-03	7.80E-05	2.37E-06	2.40E-06	4.63E-05	1.49E-03
1.47E-04	1.17E-03	7.70E-05	2.28E-06	4.60E-05	4.60E-05	1.49E-03	1.47E-04	1.17E-03	7.70E-05	2.28E-06	2.36E-06	4.60E-05	1.45E-03
1.54E-04	1.36E-03	8.24E-05	2.52E-06	5.05E-05	5.05E-05	1.70E-03	1.54E-04	1.36E-03	8.24E-05	2.52E-06	2.57E-06	5.05E-05	1.65E-03
1.53E-04	1.35E-03	8.35E-05	2.51E-06	5.05E-05	5.05E-05	1.69E-03	1.53E-04	1.35E-03	8.35E-05	2.51E-06	2.58E-06	5.05E-05	1.64E-03
1.47E-04	1.26E-03	8.31E-05	2.41E-06	5.04E-05	5.04E-05	1.59E-03	1.47E-04	1.26E-03	8.31E-05	2.41E-06	2.55E-06	5.04E-05	1.54E-03
1.40E-04	1.13E-03	8.13E-05	2.29E-06	4.84E-05	4.84E-05	1.45E-03	1.40E-04	1.13E-03	8.13E-05	2.29E-06	2.41E-06	4.84E-05	1.40E-03
1.27E-04	9.08E-04	7.67E-05	2.06E-06	4.53E-05	4.53E-05	1.20E-03	1.27E-04	9.08E-04	7.67E-05	2.06E-06	2.23E-06	4.53E-05	1.16E-03
1.33E-04	1.02E-03	8.25E-05	2.26E-06	4.78E-05	4.78E-05	1.34E-03	1.33E-04	1.02E-03	8.25E-05	2.26E-06	2.36E-06	4.78E-05	1.29E-03
1.35E-04	1.09E-03	8.70E-05	2.43E-06	5.01E-05	5.01E-05	1.41E-03	1.35E-04	1.09E-03	8.70E-05	2.43E-06	2.51E-06	5.01E-05	1.37E-03
1.26E-04	9.25E-04	8.37E-05	2.29E-06	4.89E-05	4.89E-05	1.23E-03	1.26E-04	9.25E-04	8.37E-05	2.29E-06	2.51E-06	4.89E-05	1.19E-03
1.35E-04	1.12E-03	9.42E-05	2.63E-06	5.38E-05	5.38E-05	1.46E-03	1.35E-04	1.12E-03	9.42E-05	2.63E-06	2.84E-06	5.38E-05	1.41E-03
1.37E-04	1.19E-03	1.01E-04	2.84E-06	5.55E-05	5.55E-05	1.54E-03	1.37E-04	1.19E-03	1.01E-04	2.84E-06	3.00E-06	5.55E-05	1.49E-03
1.39E-04	1.25E-03	1.07E-04	3.09E-06	5.70E-05	5.70E-05	1.62E-03	1.39E-04	1.25E-03	1.07E-04	3.09E-06	3.19E-06	5.70E-05	1.56E-03
1.40E-04	1.29E-03	1.14E-04	3.30E-06	5.81E-05	5.81E-05	1.66E-03	1.40E-04	1.29E-03	1.14E-04	3.30E-06	3.42E-06	5.81E-05	1.61E-03
1.40E-04	1.30E-03	1.21E-04	3.49E-06	5.91E-05	5.91E-05	1.68E-03	1.40E-04	1.30E-03	1.21E-04	3.49E-06	3.54E-06	5.91E-05	1.63E-03
1.41E-04	1.34E-03	1.29E-04	3.74E-06	6.22E-05	6.22E-05	1.73E-03	1.41E-04	1.34E-03	1.29E-04	3.74E-06	3.77E-06	6.22E-05	1.68E-03
1.41E-04	1.37E-03	1.39E-04	4.02E-06	6.50E-05	6.50E-05	1.79E-03	1.41E-04	1.37E-03	1.39E-04	4.02E-06	3.96E-06	6.50E-05	1.73E-03
1.42E-04	1.41E-03	1.49E-04	4.33E-06	6.80E-05	6.80E-05	1.84E-03	1.42E-04	1.41E-03	1.49E-04	4.33E-06	4.13E-06	6.80E-05	1.78E-03
1.42E-04	1.41E-03	1.57E-04	4.56E-06	7.16E-05	7.16E-05	1.85E-03	1.42E-04	1.41E-03	1.57E-04	4.56E-06	4.26E-06	7.16E-05	1.79E-03
1.41E-04	1.41E-03	1.65E-04	4.79E-06	7.53E-05	7.53E-05	1.87E-03	1.41E-04	1.41E-03	1.65E-04	4.79E-06	4.48E-06	7.53E-05	1.80E-03
1.41E-04	1.41E-03	1.75E-04	5.09E-06	7.96E-05	7.96E-05	1.89E-03	1.41E-04	1.41E-03	1.75E-04	5.09E-06	4.76E-06	7.96E-05	1.82E-03
1.40E-04	1.40E-03	1.83E-04	5.37E-06	8.41E-05	8.41E-05	1.90E-03	1.40E-04	1.40E-03	1.83E-04	5.37E-06	5.01E-06	8.41E-05	1.82E-03
5.45E-03	3.08E-03	3.52E-04	1.15E-05	1.26E-04	1.26E-04	9.15E-03	5.45E-03	3.08E-03	3.52E-04	1.15E-05	9.82E-06	1.26E-04	9.03E-03
4.60E-03	2.76E-03	3.17E-04	1.07E-05	1.10E-04	1.10E-04	7.91E-03	4.60E-03	2.76E-03	3.17E-04	1.07E-05	9.34E-06	1.10E-04	7.81E-03
1.40E-03	1.45E-03	2.25E-04	7.95E-06	8.43E-05	8.43E-05	3.25E-03	1.40E-03	1.45E-03	2.25E-04	7.95E-06	7.29E-06	8.43E-05	3.18E-03
9.72E-04	1.63E-03	2.19E-04	8.05E-06	8.68E-05	8.68E-05	3.00E-03	9.72E-04	1.63E-03	2.19E-04	8.05E-06	7.27E-06	8.68E-05	2.92E-03
7.66E-04	1.63E-03	2.09E-04	7.95E-06	9.11E-05	9.11E-05	2.80E-03	7.66E-04	1.63E-03	2.09E-04	7.95E-06	7.25E-06	9.11E-05	2.71E-03
6.87E-04	1.88E-03	2.29E-04	8.00E-06	1.04E-04	1.04E-04	3.01E-03	6.87E-04	1.88E-03	2.29E-04	8.00E-06	7.04E-06	1.04E-04	2.91E-03
6.22E-04	1.98E-03	2.55E-04	8.34E-06	1.16E-04	1.16E-04	3.09E-03	6.22E-04	1.98E-03	2.55E-04	8.34E-06	7.29E-06	1.16E-04	2.98E-03
5.84E-04	2.25E-03	3.27E-04	9.68E-06	1.27E-04	1.27E-04	3.42E-03	5.84E-04	2.25E-03	3.27E-04	9.68E-06	8.27E-06	1.27E-04	3.30E-03

5.42E-04	2.57E-03	4.01E-04	1.20E-05	1.31E-04	1.31E-04	3.78E-03	5.42E-04	2.57E-03	4.01E-04	1.20E-05	9.80E-06	1.31E-04	3.66E-03
5.10E-04	2.96E-03	4.34E-04	1.49E-05	1.35E-04	1.35E-04	4.19E-03	5.10E-04	2.96E-03	4.34E-04	1.49E-05	1.35E-05	1.35E-04	4.07E-03
4.69E-04	2.91E-03	3.96E-04	1.50E-05	1.26E-04	1.26E-04	4.05E-03	4.69E-04	2.91E-03	3.96E-04	1.50E-05	1.36E-05	1.26E-04	3.93E-03
4.35E-04	2.88E-03	3.39E-04	1.38E-05	1.12E-04	1.12E-04	3.89E-03	4.35E-04	2.88E-03	3.39E-04	1.38E-05	1.27E-05	1.12E-04	3.79E-03
4.04E-04	2.90E-03	3.00E-04	1.25E-05	1.06E-04	1.06E-04	3.83E-03	4.04E-04	2.90E-03	3.00E-04	1.25E-05	1.18E-05	1.06E-04	3.73E-03
3.73E-04	2.80E-03	2.59E-04	1.01E-05	9.94E-05	9.94E-05	3.64E-03	3.73E-04	2.80E-03	2.59E-04	1.01E-05	8.36E-06	9.94E-05	3.55E-03
3.50E-04	2.77E-03	2.41E-04	9.18E-06	9.59E-05	9.59E-05	3.56E-03	3.50E-04	2.77E-03	2.41E-04	9.18E-06	7.97E-06	9.59E-05	3.47E-03
3.36E-04	2.89E-03	2.40E-04	9.18E-06	9.33E-05	9.33E-05	3.67E-03	3.36E-04	2.89E-03	2.40E-04	9.18E-06	8.36E-06	9.33E-05	3.58E-03
3.21E-04	2.92E-03	2.27E-04	8.81E-06	8.75E-05	8.75E-05	3.66E-03	3.21E-04	2.92E-03	2.27E-04	8.81E-06	7.34E-06	8.75E-05	3.58E-03
3.04E-04	2.84E-03	2.05E-04	7.97E-06	8.32E-05	8.32E-05	3.53E-03	3.04E-04	2.84E-03	2.05E-04	7.97E-06	6.82E-06	8.32E-05	3.45E-03
2.94E-04	2.88E-03	1.99E-04	7.81E-06	8.46E-05	8.46E-05	3.55E-03	2.94E-04	2.88E-03	1.99E-04	7.81E-06	7.10E-06	8.46E-05	3.47E-03
2.70E-04	2.59E-03	1.72E-04	6.40E-06	7.71E-05	7.71E-05	3.20E-03	2.70E-04	2.59E-03	1.72E-04	6.40E-06	5.84E-06	7.71E-05	3.13E-03
2.59E-04	2.57E-03	1.62E-04	6.02E-06	7.34E-05	7.34E-05	3.14E-03	2.59E-04	2.57E-03	1.62E-04	6.02E-06	5.24E-06	7.34E-05	3.07E-03
2.45E-04	2.42E-03	1.51E-04	5.36E-06	7.06E-05	7.06E-05	2.96E-03	2.45E-04	2.42E-03	1.51E-04	5.36E-06	4.55E-06	7.06E-05	2.90E-03
2.30E-04	2.21E-03	1.35E-04	4.61E-06	6.75E-05	6.75E-05	2.71E-03	2.30E-04	2.21E-03	1.35E-04	4.61E-06	4.31E-06	6.75E-05	2.65E-03
2.10E-04	1.89E-03	1.18E-04	3.91E-06	6.37E-05	6.37E-05	2.34E-03	2.10E-04	1.89E-03	1.18E-04	3.91E-06	3.71E-06	6.37E-05	2.28E-03
2.11E-04	2.00E-03	1.20E-04	4.10E-06	6.50E-05	6.50E-05	2.47E-03	2.11E-04	2.00E-03	1.20E-04	4.10E-06	3.82E-06	6.50E-05	2.41E-03
2.06E-04	1.99E-03	1.16E-04	3.92E-06	6.54E-05	6.54E-05	2.44E-03	2.06E-04	1.99E-03	1.16E-04	3.92E-06	3.76E-06	6.54E-05	2.38E-03
1.95E-04	1.82E-03	1.07E-04	3.50E-06	6.38E-05	6.38E-05	2.25E-03	1.95E-04	1.82E-03	1.07E-04	3.50E-06	3.47E-06	6.38E-05	2.19E-03
1.99E-04	2.02E-03	1.11E-04	3.75E-06	6.55E-05	6.55E-05	2.46E-03	1.99E-04	2.02E-03	1.11E-04	3.75E-06	3.69E-06	6.55E-05	2.40E-03
1.97E-04	2.02E-03	1.09E-04	3.67E-06	6.37E-05	6.37E-05	2.46E-03	1.97E-04	2.02E-03	1.09E-04	3.67E-06	3.60E-06	6.37E-05	2.39E-03
1.89E-04	1.88E-03	1.02E-04	3.32E-06	5.89E-05	5.89E-05	2.29E-03	1.89E-04	1.88E-03	1.02E-04	3.32E-06	3.22E-06	5.89E-05	2.24E-03
1.74E-04	1.59E-03	9.06E-05	2.81E-06	5.43E-05	5.43E-05	1.96E-03	1.74E-04	1.59E-03	9.06E-05	2.81E-06	2.78E-06	5.43E-05	1.91E-03
1.69E-04	1.51E-03	8.63E-05	2.69E-06	5.22E-05	5.22E-05	1.87E-03	1.69E-04	1.51E-03	8.63E-05	2.69E-06	2.65E-06	5.22E-05	1.82E-03
1.69E-04	1.56E-03	8.69E-05	2.71E-06	5.09E-05	5.09E-05	1.92E-03	1.69E-04	1.56E-03	8.69E-05	2.71E-06	2.67E-06	5.09E-05	1.87E-03
1.75E-04	1.74E-03	9.21E-05	2.90E-06	5.25E-05	5.25E-05	2.11E-03	1.75E-04	1.74E-03	9.21E-05	2.90E-06	2.85E-06	5.25E-05	2.06E-03
1.71E-04	1.70E-03	9.05E-05	2.81E-06	5.33E-05	5.33E-05	2.07E-03	1.71E-04	1.70E-03	9.05E-05	2.81E-06	2.84E-06	5.33E-05	2.02E-03
1.69E-04	1.68E-03	9.16E-05	2.81E-06	5.43E-05	5.43E-05	2.05E-03	1.69E-04	1.68E-03	9.16E-05	2.81E-06	2.79E-06	5.43E-05	2.00E-03
1.66E-04	1.65E-03	9.28E-05	2.76E-06	5.50E-05	5.50E-05	2.02E-03	1.66E-04	1.65E-03	9.28E-05	2.76E-06	2.82E-06	5.50E-05	1.96E-03
1.61E-04	1.54E-03	9.18E-05	2.66E-06	5.46E-05	5.46E-05	1.90E-03	1.61E-04	1.54E-03	9.18E-05	2.66E-06	2.78E-06	5.46E-05	1.85E-03
1.47E-04	1.24E-03	8.62E-05	2.40E-06	5.02E-05	5.02E-05	1.58E-03	1.47E-04	1.24E-03	8.62E-05	2.40E-06	2.51E-06	5.02E-05	1.53E-03
1.41E-04	1.13E-03	8.54E-05	2.34E-06	4.94E-05	4.94E-05	1.46E-03	1.41E-04	1.13E-03	8.54E-05	2.34E-06	2.45E-06	4.94E-05	1.41E-03
1.38E-04	1.11E-03	8.74E-05	2.41E-06	4.99E-05	4.99E-05	1.43E-03	1.38E-04	1.11E-03	8.74E-05	2.41E-06	2.49E-06	4.99E-05	1.39E-03
1.46E-04	1.28E-03	9.64E-05	2.70E-06	5.47E-05	5.47E-05	1.64E-03	1.46E-04	1.28E-03	9.64E-05	2.70E-06	2.83E-06	5.47E-05	1.59E-03
1.42E-04	1.23E-03	9.83E-05	2.73E-06	5.56E-05	5.56E-05	1.58E-03	1.42E-04	1.23E-03	9.83E-05	2.73E-06	2.91E-06	5.56E-05	1.53E-03
1.42E-04	1.24E-03	1.02E-04	2.86E-06	5.68E-05	5.68E-05	1.60E-03	1.42E-04	1.24E-03	1.02E-04	2.86E-06	3.03E-06	5.68E-05	1.54E-03
1.47E-04	1.36E-03	1.12E-04	3.20E-06	5.92E-05	5.92E-05	1.75E-03	1.47E-04	1.36E-03	1.12E-04	3.20E-06	3.29E-06	5.92E-05	1.69E-03
1.48E-04	1.42E-03	1.20E-04	3.47E-06	6.06E-05	6.06E-05	1.81E-03	1.48E-04	1.42E-03	1.20E-04	3.47E-06	3.52E-06	6.06E-05	1.75E-03
1.48E-04	1.46E-03	1.29E-04	3.72E-06	6.20E-05	6.20E-05	1.86E-03	1.48E-04	1.46E-03	1.29E-04	3.72E-06	3.75E-06	6.20E-05	1.80E-03
1.49E-04	1.48E-03	1.37E-04	3.98E-06	6.48E-05	6.48E-05	1.90E-03	1.49E-04	1.48E-03	1.37E-04	3.98E-06	3.97E-06	6.48E-05	1.84E-03
1.49E-04	1.50E-03	1.47E-04	4.25E-06	6.76E-05	6.76E-05	1.93E-03	1.49E-04	1.50E-03	1.47E-04	4.25E-06	4.15E-06	6.76E-05	1.87E-03
1.49E-04	1.53E-03	1.59E-04	4.60E-06	7.12E-05	7.12E-05	1.99E-03	1.49E-04	1.53E-03	1.59E-04	4.60E-06	4.36E-06	7.12E-05	1.92E-03
1.50E-04	1.56E-03	1.70E-04	4.95E-06	7.54E-05	7.54E-05	2.04E-03	1.50E-04	1.56E-03	1.70E-04	4.95E-06	4.57E-06	7.54E-05	1.97E-03
1.50E-04	1.58E-03	1.82E-04	5.30E-06	8.00E-05	8.00E-05	2.08E-03	1.50E-04	1.58E-03	1.82E-04	5.30E-06	4.86E-06	8.00E-05	2.00E-03
1.49E-04	1.58E-03	1.93E-04	5.64E-06	8.52E-05	8.52E-05	2.10E-03	1.49E-04	1.58E-03	1.93E-04	5.64E-06	5.18E-06	8.52E-05	2.02E-03
1.49E-04	1.57E-03	2.03E-04	5.96E-06	9.02E-05	9.02E-05	2.11E-03	1.49E-04	1.57E-03	2.03E-04	5.96E-06	5.50E-06	9.02E-05	2.02E-03
1.47E-04	1.54E-03	2.11E-04	6.26E-06	9.53E-05	9.53E-05	2.10E-03	1.47E-04	1.54E-03	2.11E-04	6.26E-06	5.79E-06	9.53E-05	2.01E-03
7.49E-04	3.35E-03	3.87E-04	1.25E-05	1.42E-04	1.42E-04	4.79E-03	7.49E-04	3.35E-03	3.87E-04	1.25E-05	1.10E-05	1.42E-04	4.66E-03
1.59E-03	3.96E-03	3.89E-04	1.26E-05	1.39E-04	1.39E-04	6.23E-03	1.59E-03	3.96E-03	3.89E-04	1.26E-05	1.09E-05	1.39E-04	6.10E-03
2.02E-02	4.31E-03	3.68E-04	1.22E-05	1.26E-04	1.26E-04	2.51E-02	2.02E-02	4.31E-03	3.68E-04	1.22E-05	1.05E-05	1.26E-04	2.50E-02
2.41E-03	1.91E-03	2.43E-04	8.52E-06	8.88E-05	8.88E-05	4.75E-03	2.41E-03	1.91E-03	2.43E-04	8.52E-06	7.79E-06	8.88E-05	4.67E-03
1.49E-03	2.41E-03	2.54E-04	9.30E-06	9.57E-05	9.57E-05	4.35E-03	1.49E-03	2.41E-03	2.54E-04	9.30E-06	8.31E-06	9.57E-05	4.27E-03
1.21E-03	2.90E-03	2.60E-04	9.91E-06	1.09E-04	1.09E-04	4.59E-03	1.21E-03	2.90E-03	2.60E-04	9.91E-06	8.83E-06	1.09E-04	4.49E-03
9.67E-04	2.86E-03	2.63E-04	9.40E-06	1.19E-04	1.19E-04	4.34E-03	9.67E-04	2.86E-03	2.63E-04	9.40E-06	8.24E-06	1.19E-04	4.23E-03

8.22E-04	2.99E-03	2.90E-04	9.42E-06	1.29E-04	1.29E-04	4.37E-03	8.22E-04	2.99E-03	2.90E-04	9.42E-06	8.09E-06	1.29E-04	4.25E-03
7.17E-04	3.19E-03	3.45E-04	1.03E-05	1.32E-04	1.32E-04	4.52E-03	7.17E-04	3.19E-03	3.45E-04	1.03E-05	8.78E-06	1.32E-04	4.40E-03
6.73E-04	4.37E-03	4.51E-04	1.34E-05	1.43E-04	1.43E-04	5.79E-03	6.73E-04	4.37E-03	4.51E-04	1.34E-05	1.08E-05	1.43E-04	5.66E-03
6.14E-04	5.07E-03	4.76E-04	1.64E-05	1.45E-04	1.45E-04	6.46E-03	6.14E-04	5.07E-03	4.76E-04	1.64E-05	1.47E-05	1.45E-04	6.33E-03
5.56E-04	5.09E-03	4.28E-04	1.65E-05	1.35E-04	1.35E-04	6.36E-03	5.56E-04	5.09E-03	4.28E-04	1.65E-05	1.49E-05	1.35E-04	6.24E-03
5.11E-04	5.10E-03	3.71E-04	1.53E-05	1.21E-04	1.21E-04	6.24E-03	5.11E-04	5.10E-03	3.71E-04	1.53E-05	1.41E-05	1.21E-04	6.13E-03
4.66E-04	4.89E-03	3.20E-04	1.33E-05	1.13E-04	1.13E-04	5.92E-03	4.66E-04	4.89E-03	3.20E-04	1.33E-05	1.24E-05	1.13E-04	5.81E-03
4.32E-04	4.80E-03	2.89E-04	1.13E-05	1.09E-04	1.09E-04	5.75E-03	4.32E-04	4.80E-03	2.89E-04	1.13E-05	9.15E-06	1.09E-04	5.65E-03
4.09E-04	4.84E-03	2.85E-04	1.09E-05	1.09E-04	1.09E-04	5.77E-03	4.09E-04	4.84E-03	2.85E-04	1.09E-05	9.68E-06	1.09E-04	5.67E-03
3.84E-04	4.65E-03	2.69E-04	1.04E-05	9.98E-05	9.98E-05	5.51E-03	3.84E-04	4.65E-03	2.69E-04	1.04E-05	9.09E-06	9.98E-05	5.42E-03
3.41E-04	3.91E-03	2.11E-04	8.15E-06	8.52E-05	8.52E-05	4.64E-03	3.41E-04	3.91E-03	2.11E-04	8.15E-06	6.89E-06	8.52E-05	4.56E-03
3.11E-04	3.48E-03	1.81E-04	6.86E-06	7.97E-05	7.97E-05	4.14E-03	3.11E-04	3.48E-03	1.81E-04	6.86E-06	6.09E-06	7.97E-05	4.07E-03
2.93E-04	3.30E-03	1.70E-04	6.21E-06	7.70E-05	7.70E-05	3.93E-03	2.93E-04	3.30E-03	1.70E-04	6.21E-06	5.77E-06	7.70E-05	3.86E-03
2.89E-04	3.44E-03	1.72E-04	6.31E-06	7.67E-05	7.67E-05	4.06E-03	2.89E-04	3.44E-03	1.72E-04	6.31E-06	5.65E-06	7.67E-05	3.99E-03
2.78E-04	3.36E-03	1.66E-04	6.04E-06	7.54E-05	7.54E-05	3.96E-03	2.78E-04	3.36E-03	1.66E-04	6.04E-06	5.08E-06	7.54E-05	3.89E-03
2.56E-04	2.95E-03	1.46E-04	4.98E-06	7.07E-05	7.07E-05	3.49E-03	2.56E-04	2.95E-03	1.46E-04	4.98E-06	4.57E-06	7.07E-05	3.43E-03
2.48E-04	2.87E-03	1.40E-04	4.85E-06	7.02E-05	7.02E-05	3.40E-03	2.48E-04	2.87E-03	1.40E-04	4.85E-06	4.50E-06	7.02E-05	3.34E-03
2.40E-04	2.78E-03	1.35E-04	4.77E-06	7.00E-05	7.00E-05	3.30E-03	2.40E-04	2.78E-03	1.35E-04	4.77E-06	4.41E-06	7.00E-05	3.24E-03
2.33E-04	2.72E-03	1.31E-04	4.53E-06	7.03E-05	7.03E-05	3.23E-03	2.33E-04	2.72E-03	1.31E-04	4.53E-06	4.33E-06	7.03E-05	3.16E-03
2.30E-04	2.72E-03	1.27E-04	4.37E-06	7.09E-05	7.09E-05	3.22E-03	2.30E-04	2.72E-03	1.27E-04	4.37E-06	4.16E-06	7.09E-05	3.16E-03
2.23E-04	2.63E-03	1.22E-04	4.19E-06	7.02E-05	7.02E-05	3.12E-03	2.23E-04	2.63E-03	1.22E-04	4.19E-06	4.05E-06	7.02E-05	3.05E-03
2.19E-04	2.63E-03	1.21E-04	4.11E-06	6.88E-05	6.88E-05	3.11E-03	2.19E-04	2.63E-03	1.21E-04	4.11E-06	3.98E-06	6.88E-05	3.04E-03
2.11E-04	2.47E-03	1.14E-04	3.76E-06	6.43E-05	6.43E-05	2.93E-03	2.11E-04	2.47E-03	1.14E-04	3.76E-06	3.59E-06	6.43E-05	2.87E-03
2.12E-04	2.58E-03	1.15E-04	3.80E-06	6.36E-05	6.36E-05	3.03E-03	2.12E-04	2.58E-03	1.15E-04	3.80E-06	3.56E-06	6.36E-05	2.97E-03
1.96E-04	2.19E-03	1.03E-04	3.32E-06	5.88E-05	5.88E-05	2.61E-03	1.96E-04	2.19E-03	1.03E-04	3.32E-06	3.16E-06	5.88E-05	2.55E-03
1.95E-04	2.22E-03	1.03E-04	3.35E-06	5.72E-05	5.72E-05	2.64E-03	1.95E-04	2.22E-03	1.03E-04	3.35E-06	3.17E-06	5.72E-05	2.58E-03
1.92E-04	2.18E-03	1.02E-04	3.23E-06	5.65E-05	5.65E-05	2.59E-03	1.92E-04	2.18E-03	1.02E-04	3.23E-06	3.15E-06	5.65E-05	2.53E-03
1.87E-04	2.09E-03	1.00E-04	3.13E-06	5.69E-05	5.69E-05	2.49E-03	1.87E-04	2.09E-03	1.00E-04	3.13E-06	3.07E-06	5.69E-05	2.44E-03
1.84E-04	2.06E-03	1.02E-04	3.13E-06	5.82E-05	5.82E-05	2.46E-03	1.84E-04	2.06E-03	1.02E-04	3.13E-06	3.06E-06	5.82E-05	2.41E-03
1.81E-04	2.02E-03	1.04E-04	3.10E-06	5.97E-05	5.97E-05	2.43E-03	1.81E-04	2.02E-03	1.04E-04	3.10E-06	3.13E-06	5.97E-05	2.37E-03
1.75E-04	1.90E-03	1.04E-04	3.03E-06	6.03E-05	6.03E-05	2.30E-03	1.75E-04	1.90E-03	1.04E-04	3.03E-06	3.06E-06	6.03E-05	2.24E-03
1.63E-04	1.59E-03	9.80E-05	2.78E-06	5.65E-05	5.65E-05	1.96E-03	1.63E-04	1.59E-03	9.80E-05	2.78E-06	2.80E-06	5.65E-05	1.91E-03
1.57E-04	1.49E-03	9.93E-05	2.79E-06	5.54E-05	5.54E-05	1.86E-03	1.57E-04	1.49E-03	9.93E-05	2.79E-06	2.79E-06	5.54E-05	1.81E-03
1.56E-04	1.47E-03	1.02E-04	2.87E-06	5.66E-05	5.66E-05	1.84E-03	1.56E-04	1.47E-03	1.02E-04	2.87E-06	2.93E-06	5.66E-05	1.79E-03
1.50E-04	1.36E-03	1.03E-04	2.86E-06	5.72E-05	5.72E-05	1.73E-03	1.50E-04	1.36E-03	1.03E-04	2.86E-06	3.01E-06	5.72E-05	1.68E-03
1.57E-04	1.56E-03	1.14E-04	3.26E-06	6.20E-05	6.20E-05	1.96E-03	1.57E-04	1.56E-03	1.14E-04	3.26E-06	3.34E-06	6.20E-05	1.90E-03
1.57E-04	1.56E-03	1.20E-04	3.45E-06	6.30E-05	6.30E-05	1.96E-03	1.57E-04	1.56E-03	1.20E-04	3.45E-06	3.48E-06	6.30E-05	1.90E-03
1.57E-04	1.61E-03	1.29E-04	3.75E-06	6.47E-05	6.47E-05	2.03E-03	1.57E-04	1.61E-03	1.29E-04	3.75E-06	3.75E-06	6.47E-05	1.97E-03
1.57E-04	1.63E-03	1.38E-04	4.00E-06	6.60E-05	6.60E-05	2.06E-03	1.57E-04	1.63E-03	1.38E-04	4.00E-06	3.97E-06	6.60E-05	2.00E-03
1.56E-04	1.62E-03	1.47E-04	4.21E-06	6.77E-05	6.77E-05	2.06E-03	1.56E-04	1.62E-03	1.47E-04	4.21E-06	4.18E-06	6.77E-05	2.00E-03
1.55E-04	1.62E-03	1.57E-04	4.51E-06	7.06E-05	7.06E-05	2.08E-03	1.55E-04	1.62E-03	1.57E-04	4.51E-06	4.36E-06	7.06E-05	2.01E-03
1.54E-04	1.62E-03	1.67E-04	4.79E-06	7.37E-05	7.37E-05	2.10E-03	1.54E-04	1.62E-03	1.67E-04	4.79E-06	4.51E-06	7.37E-05	2.03E-03
1.54E-04	1.62E-03	1.78E-04	5.12E-06	7.74E-05	7.74E-05	2.11E-03	1.54E-04	1.62E-03	1.78E-04	5.12E-06	4.70E-06	7.74E-05	2.04E-03
1.53E-04	1.63E-03	1.89E-04	5.47E-06	8.23E-05	8.23E-05	2.14E-03	1.53E-04	1.63E-03	1.89E-04	5.47E-06	5.01E-06	8.23E-05	2.06E-03
1.54E-04	1.66E-03	2.04E-04	5.92E-06	8.80E-05	8.80E-05	2.20E-03	1.54E-04	1.66E-03	2.04E-04	5.92E-06	5.43E-06	8.80E-05	2.12E-03
1.55E-04	1.71E-03	2.21E-04	6.51E-06	9.55E-05	9.55E-05	2.28E-03	1.55E-04	1.71E-03	2.21E-04	6.51E-06	5.94E-06	9.55E-05	2.20E-03
1.56E-04	1.74E-03	2.37E-04	7.06E-06	1.03E-04	1.03E-04	2.34E-03	1.56E-04	1.74E-03	2.37E-04	7.06E-06	6.48E-06	1.03E-04	2.25E-03
1.54E-04	1.69E-03	2.46E-04	7.34E-06	1.08E-04	1.08E-04	2.31E-03	1.54E-04	1.69E-03	2.46E-04	7.34E-06	6.80E-06	1.08E-04	2.21E-03
4.84E-04	4.00E-03	4.22E-04	1.34E-05	1.53E-04	1.53E-04	5.22E-03	4.84E-04	4.00E-03	4.22E-04	1.34E-05	1.17E-05	1.53E-04	5.08E-03
6.61E-04	4.58E-03	4.25E-04	1.37E-05	1.54E-04	1.54E-04	5.99E-03	6.61E-04	4.58E-03	4.25E-04	1.37E-05	1.20E-05	1.54E-04	5.84E-03
1.14E-03	5.50E-03	4.26E-04	1.39E-05	1.51E-04	1.51E-04	7.38E-03	1.14E-03	5.50E-03	4.26E-04	1.39E-05	1.20E-05	1.51E-04	7.24E-03
5.09E-03	6.95E-03	4.08E-04	1.35E-05	1.38E-04	1.38E-04	1.27E-02	5.09E-03	6.95E-03	4.08E-04	1.35E-05	1.15E-05	1.38E-04	1.26E-02
4.69E-03	4.77E-03	3.24E-04	1.13E-05	1.10E-04	1.10E-04	1.00E-02	4.69E-03	4.77E-03	3.24E-04	1.13E-05	1.00E-05	1.10E-04	9.92E-03
2.21E-03	4.84E-03	3.11E-04	1.12E-05	1.11E-04	1.11E-04	7.59E-03	2.21E-03	4.84E-03	3.11E-04	1.12E-05	9.93E-06	1.11E-04	7.49E-03

1.62E-03	5.57E-03	3.09E-04	1.16E-05	1.25E-04	1.25E-04	7.76E-03	1.62E-03	5.57E-03	3.09E-04	1.16E-05	1.02E-05	1.25E-04	7.64E-03
1.20E-03	5.96E-03	2.95E-04	1.08E-05	1.32E-04	1.32E-04	7.72E-03	1.20E-03	5.96E-03	2.95E-04	1.08E-05	9.46E-06	1.32E-04	7.60E-03
9.54E-04	6.61E-03	3.08E-04	1.02E-05	1.36E-04	1.36E-04	8.15E-03	9.54E-04	6.61E-03	3.08E-04	1.02E-05	8.68E-06	1.36E-04	8.03E-03
8.76E-04	8.88E-03	4.14E-04	1.20E-05	1.54E-04	1.54E-04	1.05E-02	8.76E-04	8.88E-03	4.14E-04	1.20E-05	1.01E-05	1.54E-04	1.03E-02
8.00E-04	1.06E-02	5.54E-04	1.59E-05	1.69E-04	1.69E-04	1.23E-02	8.00E-04	1.06E-02	5.54E-04	1.59E-05	1.27E-05	1.69E-04	1.21E-02
6.99E-04	9.90E-03	5.32E-04	1.82E-05	1.58E-04	1.58E-04	1.15E-02	6.99E-04	9.90E-03	5.32E-04	1.82E-05	1.63E-05	1.58E-04	1.13E-02
6.33E-04	9.47E-03	4.82E-04	1.87E-05	1.49E-04	1.49E-04	1.09E-02	6.33E-04	9.47E-03	4.82E-04	1.87E-05	1.69E-05	1.49E-04	1.08E-02
5.72E-04	8.69E-03	4.08E-04	1.69E-05	1.32E-04	1.32E-04	9.95E-03	5.72E-04	8.69E-03	4.08E-04	1.69E-05	1.57E-05	1.32E-04	9.84E-03
5.25E-04	8.23E-03	3.60E-04	1.50E-05	1.28E-04	1.28E-04	9.39E-03	5.25E-04	8.23E-03	3.60E-04	1.50E-05	1.35E-05	1.28E-04	9.27E-03
4.93E-04	7.95E-03	3.38E-04	1.33E-05	1.29E-04	1.29E-04	9.05E-03	4.93E-04	7.95E-03	3.38E-04	1.33E-05	1.07E-05	1.29E-04	8.93E-03
4.37E-04	6.61E-03	2.76E-04	1.07E-05	1.07E-04	1.07E-04	7.54E-03	4.37E-04	6.61E-03	2.76E-04	1.07E-05	9.77E-06	1.07E-04	7.45E-03
3.74E-04	5.14E-03	2.05E-04	7.93E-06	8.59E-05	8.59E-05	5.90E-03	3.74E-04	5.14E-03	2.05E-04	7.93E-06	7.04E-06	8.59E-05	5.82E-03
3.16E-04	3.86E-03	1.57E-04	5.42E-06	7.31E-05	7.31E-05	4.48E-03	3.16E-04	3.86E-03	1.57E-04	5.42E-06	4.86E-06	7.31E-05	4.42E-03
2.92E-04	3.47E-03	1.44E-04	4.81E-06	7.03E-05	7.03E-05	4.05E-03	2.92E-04	3.47E-03	1.44E-04	4.81E-06	4.59E-06	7.03E-05	3.99E-03
2.97E-04	3.79E-03	1.55E-04	5.27E-06	7.27E-05	7.27E-05	4.40E-03	2.97E-04	3.79E-03	1.55E-04	5.27E-06	4.98E-06	7.27E-05	4.33E-03
3.14E-04	4.55E-03	1.81E-04	6.68E-06	8.04E-05	8.04E-05	5.21E-03	3.14E-04	4.55E-03	1.81E-04	6.68E-06	5.74E-06	8.04E-05	5.14E-03
3.02E-04	4.35E-03	1.73E-04	6.22E-06	7.87E-05	7.87E-05	4.99E-03	3.02E-04	4.35E-03	1.73E-04	6.22E-06	5.35E-06	7.87E-05	4.92E-03
2.86E-04	4.04E-03	1.62E-04	5.67E-06	7.65E-05	7.65E-05	4.65E-03	2.86E-04	4.04E-03	1.62E-04	5.67E-06	5.13E-06	7.65E-05	4.58E-03
2.72E-04	3.75E-03	1.53E-04	5.39E-06	7.48E-05	7.48E-05	4.33E-03	2.72E-04	3.75E-03	1.53E-04	5.39E-06	4.89E-06	7.48E-05	4.26E-03
2.64E-04	3.64E-03	1.47E-04	5.18E-06	7.56E-05	7.56E-05	4.21E-03	2.64E-04	3.64E-03	1.47E-04	5.18E-06	4.92E-06	7.56E-05	4.14E-03
2.64E-04	3.75E-03	1.48E-04	5.28E-06	7.82E-05	7.82E-05	4.32E-03	2.64E-04	3.75E-03	1.48E-04	5.28E-06	4.86E-06	7.82E-05	4.25E-03
2.54E-04	3.56E-03	1.40E-04	4.95E-06	7.77E-05	7.77E-05	4.11E-03	2.54E-04	3.56E-03	1.40E-04	4.95E-06	4.68E-06	7.77E-05	4.04E-03
2.47E-04	3.46E-03	1.37E-04	4.76E-06	7.57E-05	7.57E-05	4.00E-03	2.47E-04	3.46E-03	1.37E-04	4.76E-06	4.54E-06	7.57E-05	3.93E-03
2.44E-04	3.45E-03	1.34E-04	4.59E-06	7.22E-05	7.22E-05	3.97E-03	2.44E-04	3.45E-03	1.34E-04	4.59E-06	4.26E-06	7.22E-05	3.91E-03
2.40E-04	3.41E-03	1.32E-04	4.50E-06	7.00E-05	7.00E-05	3.93E-03	2.40E-04	3.41E-03	1.32E-04	4.50E-06	4.07E-06	7.00E-05	3.86E-03
2.24E-04	3.02E-03	1.20E-04	4.04E-06	6.60E-05	6.60E-05	3.50E-03	2.24E-04	3.02E-03	1.20E-04	4.04E-06	3.74E-06	6.60E-05	3.44E-03
2.22E-04	3.01E-03	1.20E-04	4.00E-06	6.42E-05	6.42E-05	3.48E-03	2.22E-04	3.01E-03	1.20E-04	4.00E-06	3.73E-06	6.42E-05	3.42E-03
2.11E-04	2.74E-03	1.14E-04	3.67E-06	6.14E-05	6.14E-05	3.19E-03	2.11E-04	2.74E-03	1.14E-04	3.67E-06	3.52E-06	6.14E-05	3.13E-03
2.05E-04	2.62E-03	1.14E-04	3.59E-06	6.21E-05	6.21E-05	3.06E-03	2.05E-04	2.62E-03	1.14E-04	3.59E-06	3.42E-06	6.21E-05	3.00E-03
2.01E-04	2.54E-03	1.15E-04	3.54E-06	6.40E-05	6.40E-05	2.99E-03	2.01E-04	2.54E-03	1.15E-04	3.54E-06	3.43E-06	6.40E-05	2.93E-03
1.98E-04	2.48E-03	1.18E-04	3.54E-06	6.56E-05	6.56E-05	2.93E-03	1.98E-04	2.48E-03	1.18E-04	3.54E-06	3.49E-06	6.56E-05	2.86E-03
1.89E-04	2.25E-03	1.16E-04	3.41E-06	6.49E-05	6.49E-05	2.68E-03	1.89E-04	2.25E-03	1.16E-04	3.41E-06	3.33E-06	6.49E-05	2.62E-03
1.80E-04	2.04E-03	1.15E-04	3.34E-06	6.23E-05	6.23E-05	2.46E-03	1.80E-04	2.04E-03	1.15E-04	3.34E-06	3.18E-06	6.23E-05	2.40E-03
1.76E-04	1.97E-03	1.18E-04	3.40E-06	6.30E-05	6.30E-05	2.39E-03	1.76E-04	1.97E-03	1.18E-04	3.40E-06	3.30E-06	6.30E-05	2.33E-03
1.72E-04	1.87E-03	1.20E-04	3.43E-06	6.38E-05	6.38E-05	2.29E-03	1.72E-04	1.87E-03	1.20E-04	3.43E-06	3.43E-06	6.38E-05	2.23E-03
1.73E-04	1.95E-03	1.30E-04	3.75E-06	6.74E-05	6.74E-05	2.39E-03	1.73E-04	1.95E-03	1.30E-04	3.75E-06	3.72E-06	6.74E-05	2.33E-03
1.69E-04	1.86E-03	1.33E-04	3.83E-06	6.80E-05	6.80E-05	2.30E-03	1.69E-04	1.86E-03	1.33E-04	3.83E-06	3.80E-06	6.80E-05	2.24E-03
1.69E-04	1.88E-03	1.43E-04	4.13E-06	6.98E-05	6.98E-05	2.33E-03	1.69E-04	1.88E-03	1.43E-04	4.13E-06	4.05E-06	6.98E-05	2.27E-03
1.67E-04	1.86E-03	1.51E-04	4.36E-06	7.04E-05	7.04E-05	2.32E-03	1.67E-04	1.86E-03	1.51E-04	4.36E-06	4.26E-06	7.04E-05	2.26E-03
1.63E-04	1.78E-03	1.57E-04	4.50E-06	7.11E-05	7.11E-05	2.24E-03	1.63E-04	1.78E-03	1.57E-04	4.50E-06	4.39E-06	7.11E-05	2.18E-03
1.60E-04	1.71E-03	1.64E-04	4.68E-06	7.31E-05	7.31E-05	2.18E-03	1.60E-04	1.71E-03	1.64E-04	4.68E-06	4.51E-06	7.31E-05	2.11E-03
1.58E-04	1.67E-03	1.74E-04	4.94E-06	7.59E-05	7.59E-05	2.16E-03	1.58E-04	1.67E-03	1.74E-04	4.94E-06	4.64E-06	7.59E-05	2.09E-03
1.56E-04	1.64E-03	1.83E-04	5.25E-06	7.94E-05	7.94E-05	2.15E-03	1.56E-04	1.64E-03	1.83E-04	5.25E-06	4.83E-06	7.94E-05	2.07E-03
1.55E-04	1.64E-03	1.95E-04	5.60E-06	8.43E-05	8.43E-05	2.17E-03	1.55E-04	1.64E-03	1.95E-04	5.60E-06	5.14E-06	8.43E-05	2.09E-03
1.55E-04	1.63E-03	2.07E-04	5.96E-06	8.96E-05	8.96E-05	2.18E-03	1.55E-04	1.63E-03	2.07E-04	5.96E-06	5.50E-06	8.96E-05	2.09E-03
1.56E-04	1.68E-03	2.25E-04	6.53E-06	9.61E-05	9.61E-05	2.26E-03	1.56E-04	1.68E-03	2.25E-04	6.53E-06	6.03E-06	9.61E-05	2.17E-03
1.58E-04	1.76E-03	2.48E-04	7.32E-06	1.05E-04	1.05E-04	2.39E-03	1.58E-04	1.76E-03	2.48E-04	7.32E-06	6.70E-06	1.05E-04	2.29E-03
1.61E-04	1.87E-03	2.75E-04	8.25E-06	1.16E-04	1.16E-04	2.55E-03	1.61E-04	1.87E-03	2.75E-04	8.25E-06	7.57E-06	1.16E-04	2.44E-03
1.60E-04	1.85E-03	2.90E-04	8.69E-06	1.22E-04	1.22E-04	2.56E-03	1.60E-04	1.85E-03	2.90E-04	8.69E-06	8.12E-06	1.22E-04	2.44E-03
3.81E-04	4.78E-03	4.59E-04	1.44E-05	1.63E-04	1.63E-04	5.96E-03	3.81E-04	4.78E-03	4.59E-04	1.44E-05	1.30E-05	1.63E-04	5.81E-03
4.62E-04	5.68E-03	4.68E-04	1.48E-05	1.67E-04	1.67E-04	6.96E-03	4.62E-04	5.68E-03	4.68E-04	1.48E-05	1.29E-05	1.67E-04	6.80E-03
6.06E-04	6.94E-03	4.71E-04	1.51E-05	1.68E-04	1.68E-04	8.37E-03	6.06E-04	6.94E-03	4.71E-04	1.51E-05	1.31E-05	1.68E-04	8.22E-03
8.99E-04	9.25E-03	4.71E-04	1.52E-05	1.65E-04	1.65E-04	1.10E-02	8.99E-04	9.25E-03	4.71E-04	1.52E-05	1.32E-05	1.65E-04	1.08E-02
1.78E-03	1.51E-02	4.73E-04	1.54E-05	1.60E-04	1.60E-04	1.77E-02	1.78E-03	1.51E-02	4.73E-04	1.54E-05	1.31E-05	1.60E-04	1.76E-02

3.12E-02	9.28E-02	4.44E-04	1.48E-05	1.46E-04	1.46E-04	1.25E-01	3.12E-02	9.28E-02	4.44E-04	1.48E-05	1.27E-05	1.46E-04	1.25E-01
3.39E-03	4.10E-02	3.64E-04	1.30E-05	1.25E-04	1.25E-04	4.50E-02	3.39E-03	4.10E-02	3.64E-04	1.30E-05	1.14E-05	1.25E-04	4.49E-02
2.05E-03	3.37E-02	3.61E-04	1.34E-05	1.40E-04	1.40E-04	3.64E-02	2.05E-03	3.37E-02	3.61E-04	1.34E-05	1.17E-05	1.40E-04	3.63E-02
1.38E-03	2.33E-02	3.30E-04	1.23E-05	1.45E-04	1.45E-04	2.53E-02	1.38E-03	2.33E-02	3.30E-04	1.23E-05	1.08E-05	1.45E-04	2.52E-02
1.06E-03	1.82E-02	3.39E-04	1.13E-05	1.48E-04	1.48E-04	1.99E-02	1.06E-03	1.82E-02	3.39E-04	1.13E-05	9.63E-06	1.48E-04	1.98E-02
1.01E-03	2.06E-02	5.11E-04	1.42E-05	1.85E-04	1.85E-04	2.25E-02	1.01E-03	2.06E-02	5.11E-04	1.42E-05	1.16E-05	1.85E-04	2.24E-02
8.82E-04	1.86E-02	6.24E-04	1.77E-05	1.84E-04	1.84E-04	2.05E-02	8.82E-04	1.86E-02	6.24E-04	1.77E-05	1.41E-05	1.84E-04	2.04E-02
7.80E-04	1.66E-02	6.18E-04	2.09E-05	1.79E-04	1.79E-04	1.84E-02	7.80E-04	1.66E-02	6.18E-04	2.09E-05	1.85E-05	1.79E-04	1.83E-02
7.07E-04	1.49E-02	5.39E-04	2.11E-05	1.62E-04	1.62E-04	1.65E-02	7.07E-04	1.49E-02	5.39E-04	2.11E-05	1.90E-05	1.62E-04	1.64E-02
6.41E-04	1.33E-02	4.60E-04	1.92E-05	1.46E-04	1.46E-04	1.47E-02	6.41E-04	1.33E-02	4.60E-04	1.92E-05	1.79E-05	1.46E-04	1.46E-02
5.91E-04	1.22E-02	3.97E-04	1.65E-05	1.42E-04	1.42E-04	1.35E-02	5.91E-04	1.22E-02	3.97E-04	1.65E-05	1.46E-05	1.42E-04	1.34E-02
4.94E-04	9.05E-03	2.79E-04	1.10E-05	1.09E-04	1.09E-04	1.01E-02	4.94E-04	9.05E-03	2.79E-04	1.10E-05	9.35E-06	1.09E-04	9.95E-03
3.83E-04	5.81E-03	1.80E-04	6.42E-06	7.97E-05	7.97E-05	6.54E-03	3.83E-04	5.81E-03	1.80E-04	6.42E-06	6.04E-06	7.97E-05	6.47E-03
3.77E-04	5.93E-03	1.83E-04	6.63E-06	8.11E-05	8.11E-05	6.65E-03	3.77E-04	5.93E-03	1.83E-04	6.63E-06	5.90E-06	8.11E-05	6.58E-03
3.47E-04	5.21E-03	1.66E-04	5.75E-06	7.77E-05	7.77E-05	5.89E-03	3.47E-04	5.21E-03	1.66E-04	5.75E-06	5.30E-06	7.77E-05	5.82E-03
3.38E-04	5.14E-03	1.68E-04	5.80E-06	7.81E-05	7.81E-05	5.81E-03	3.38E-04	5.14E-03	1.68E-04	5.80E-06	5.47E-06	7.81E-05	5.73E-03
3.68E-04	6.43E-03	2.09E-04	7.96E-06	9.01E-05	9.01E-05	7.19E-03	3.68E-04	6.43E-03	2.09E-04	7.96E-06	7.01E-06	9.01E-05	7.11E-03
3.48E-04	5.97E-03	1.98E-04	7.43E-06	8.71E-05	8.71E-05	6.69E-03	3.48E-04	5.97E-03	1.98E-04	7.43E-06	6.30E-06	8.71E-05	6.61E-03
3.26E-04	5.39E-03	1.82E-04	6.47E-06	8.24E-05	8.24E-05	6.07E-03	3.26E-04	5.39E-03	1.82E-04	6.47E-06	5.73E-06	8.24E-05	5.99E-03
3.10E-04	5.02E-03	1.72E-04	6.23E-06	8.14E-05	8.14E-05	5.67E-03	3.10E-04	5.02E-03	1.72E-04	6.23E-06	5.52E-06	8.14E-05	5.59E-03
3.01E-04	4.86E-03	1.69E-04	6.06E-06	8.20E-05	8.20E-05	5.50E-03	3.01E-04	4.86E-03	1.69E-04	6.06E-06	5.70E-06	8.20E-05	5.43E-03
2.98E-04	4.89E-03	1.67E-04	6.15E-06	8.44E-05	8.44E-05	5.53E-03	2.98E-04	4.89E-03	1.67E-04	6.15E-06	5.56E-06	8.44E-05	5.45E-03
2.88E-04	4.69E-03	1.62E-04	5.88E-06	8.59E-05	8.59E-05	5.32E-03	2.88E-04	4.69E-03	1.62E-04	5.88E-06	5.42E-06	8.59E-05	5.24E-03
2.83E-04	4.63E-03	1.60E-04	5.77E-06	8.57E-05	8.57E-05	5.25E-03	2.83E-04	4.63E-03	1.60E-04	5.77E-06	5.42E-06	8.57E-05	5.17E-03
2.77E-04	4.57E-03	1.57E-04	5.62E-06	8.20E-05	8.20E-05	5.17E-03	2.77E-04	4.57E-03	1.57E-04	5.62E-06	5.05E-06	8.20E-05	5.10E-03
2.64E-04	4.20E-03	1.47E-04	5.14E-06	7.60E-05	7.60E-05	4.77E-03	2.64E-04	4.20E-03	1.47E-04	5.14E-06	4.52E-06	7.60E-05	4.70E-03
2.52E-04	3.91E-03	1.39E-04	4.81E-06	7.32E-05	7.32E-05	4.45E-03	2.52E-04	3.91E-03	1.39E-04	4.81E-06	4.34E-06	7.32E-05	4.38E-03
2.44E-04	3.70E-03	1.35E-04	4.56E-06	6.93E-05	6.93E-05	4.22E-03	2.44E-04	3.70E-03	1.35E-04	4.56E-06	4.17E-06	6.93E-05	4.16E-03
2.32E-04	3.39E-03	1.31E-04	4.26E-06	6.68E-05	6.68E-05	3.90E-03	2.32E-04	3.39E-03	1.31E-04	4.26E-06	3.96E-06	6.68E-05	3.83E-03
2.25E-04	3.22E-03	1.31E-04	4.14E-06	6.79E-05	6.79E-05	3.72E-03	2.25E-04	3.22E-03	1.31E-04	4.14E-06	3.85E-06	6.79E-05	3.65E-03
2.20E-04	3.12E-03	1.33E-04	4.11E-06	7.07E-05	7.07E-05	3.62E-03	2.20E-04	3.12E-03	1.33E-04	4.11E-06	3.90E-06	7.07E-05	3.55E-03
2.15E-04	3.02E-03	1.36E-04	4.16E-06	7.22E-05	7.22E-05	3.52E-03	2.15E-04	3.02E-03	1.36E-04	4.16E-06	3.92E-06	7.22E-05	3.45E-03
2.14E-04	3.03E-03	1.44E-04	4.42E-06	7.43E-05	7.43E-05	3.54E-03	2.14E-04	3.03E-03	1.44E-04	4.42E-06	4.00E-06	7.43E-05	3.47E-03
2.08E-04	2.88E-03	1.47E-04	4.49E-06	7.36E-05	7.36E-05	3.39E-03	2.08E-04	2.88E-03	1.47E-04	4.49E-06	4.01E-06	7.36E-05	3.32E-03
2.00E-04	2.68E-03	1.47E-04	4.43E-06	7.31E-05	7.31E-05	3.18E-03	2.00E-04	2.68E-03	1.47E-04	4.43E-06	4.10E-06	7.31E-05	3.11E-03
1.90E-04	2.40E-03	1.46E-04	4.30E-06	7.31E-05	7.31E-05	2.89E-03	1.90E-04	2.40E-03	1.46E-04	4.30E-06	4.13E-06	7.31E-05	2.82E-03
1.86E-04	2.31E-03	1.52E-04	4.44E-06	7.46E-05	7.46E-05	2.80E-03	1.86E-04	2.31E-03	1.52E-04	4.44E-06	4.29E-06	7.46E-05	2.73E-03
1.83E-04	2.25E-03	1.60E-04	4.70E-06	7.62E-05	7.62E-05	2.75E-03	1.83E-04	2.25E-03	1.60E-04	4.70E-06	4.49E-06	7.62E-05	2.68E-03
1.79E-04	2.16E-03	1.68E-04	4.86E-06	7.64E-05	7.64E-05	2.67E-03	1.79E-04	2.16E-03	1.68E-04	4.86E-06	4.67E-06	7.64E-05	2.60E-03
1.71E-04	1.96E-03	1.70E-04	4.84E-06	7.54E-05	7.54E-05	2.45E-03	1.71E-04	1.96E-03	1.70E-04	4.84E-06	4.67E-06	7.54E-05	2.38E-03
1.65E-04	1.82E-03	1.75E-04	4.95E-06	7.60E-05	7.60E-05	2.32E-03	1.65E-04	1.82E-03	1.75E-04	4.95E-06	4.70E-06	7.60E-05	2.24E-03
1.62E-04	1.75E-03	1.83E-04	5.18E-06	7.83E-05	7.83E-05	2.25E-03	1.62E-04	1.75E-03	1.83E-04	5.18E-06	4.79E-06	7.83E-05	2.18E-03
1.60E-04	1.71E-03	1.94E-04	5.50E-06	8.21E-05	8.21E-05	2.23E-03	1.60E-04	1.71E-03	1.94E-04	5.50E-06	4.99E-06	8.21E-05	2.15E-03
1.56E-04	1.62E-03	2.01E-04	5.69E-06	8.56E-05	8.56E-05	2.16E-03	1.56E-04	1.62E-03	2.01E-04	5.69E-06	5.19E-06	8.56E-05	2.08E-03
1.46E-04	1.37E-03	1.95E-04	5.43E-06	8.52E-05	8.52E-05	1.88E-03	1.46E-04	1.37E-03	1.95E-04	5.43E-06	5.10E-06	8.52E-05	1.80E-03
1.55E-04	1.60E-03	2.28E-04	6.51E-06	9.71E-05	9.71E-05	2.18E-03	1.55E-04	1.60E-03	2.28E-04	6.51E-06	6.02E-06	9.71E-05	2.09E-03
1.56E-04	1.65E-03	2.47E-04	7.17E-06	1.05E-04	1.05E-04	2.27E-03	1.56E-04	1.65E-03	2.47E-04	7.17E-06	6.65E-06	1.05E-04	2.17E-03
1.59E-04	1.74E-03	2.73E-04	8.00E-06	1.15E-04	1.15E-04	2.40E-03	1.59E-04	1.74E-03	2.73E-04	8.00E-06	7.44E-06	1.15E-04	2.30E-03
1.66E-04	1.97E-03	3.18E-04	9.52E-06	1.31E-04	1.31E-04	2.73E-03	1.66E-04	1.97E-03	3.18E-04	9.52E-06	8.86E-06	1.31E-04	2.61E-03
1.67E-04	2.01E-03	3.44E-04	1.04E-05	1.40E-04	1.40E-04	2.81E-03	1.67E-04	2.01E-03	3.44E-04	1.04E-05	9.68E-06	1.40E-04	2.68E-03
3.25E-04	5.09E-03	4.92E-04	1.47E-05	1.75E-04	1.75E-04	6.27E-03	3.25E-04	5.09E-03	4.92E-04	1.47E-05	1.34E-05	1.75E-04	6.11E-03
3.76E-04	6.19E-03	5.05E-04	1.55E-05	1.77E-04	1.77E-04	7.44E-03	3.76E-04	6.19E-03	5.05E-04	1.55E-05	1.42E-05	1.77E-04	7.28E-03
4.48E-04	7.87E-03	5.13E-04	1.61E-05	1.79E-04	1.79E-04	9.21E-03	4.48E-04	7.87E-03	5.13E-04	1.61E-05	1.43E-05	1.79E-04	9.04E-03
5.59E-04	1.07E-02	5.21E-04	1.65E-05	1.82E-04	1.82E-04	1.22E-02	5.59E-04	1.07E-02	5.21E-04	1.65E-05	1.43E-05	1.82E-04	1.20E-02

7.55E-04	1.61E-02	5.22E-04	1.68E-05	1.80E-04	1.80E-04	1.77E-02	7.55E-04	1.61E-02	5.22E-04	1.68E-05	1.45E-05	1.80E-04	1.76E-02
1.23E-03	2.96E-02	5.24E-04	1.71E-05	1.75E-04	1.75E-04	3.17E-02	1.23E-03	2.96E-02	5.24E-04	1.71E-05	1.45E-05	1.75E-04	3.15E-02
5.43E-03	1.07E-01	5.05E-04	1.67E-05	1.64E-04	1.64E-04	1.13E-01	5.43E-03	1.07E-01	5.05E-04	1.67E-05	1.42E-05	1.64E-04	1.13E-01
4.38E-03	9.94E-02	4.33E-04	1.51E-05	1.43E-04	1.43E-04	1.05E-01	4.38E-03	9.94E-02	4.33E-04	1.51E-05	1.32E-05	1.43E-04	1.04E-01
2.45E-03	6.81E-02	4.42E-04	1.59E-05	1.67E-04	1.67E-04	7.13E-02	2.45E-03	6.81E-02	4.42E-04	1.59E-05	1.36E-05	1.67E-04	7.12E-02
1.58E-03	4.14E-02	3.87E-04	1.45E-05	1.68E-04	1.68E-04	4.37E-02	1.58E-03	4.14E-02	3.87E-04	1.45E-05	1.26E-05	1.68E-04	4.36E-02
1.19E-03	2.88E-02	3.80E-04	1.29E-05	1.64E-04	1.64E-04	3.07E-02	1.19E-03	2.88E-02	3.80E-04	1.29E-05	1.10E-05	1.64E-04	3.06E-02
1.16E-03	3.09E-02	6.05E-04	1.63E-05	2.14E-04	2.14E-04	3.31E-02	1.16E-03	3.09E-02	6.05E-04	1.63E-05	1.30E-05	2.14E-04	3.29E-02
1.02E-03	2.67E-02	6.95E-04	1.95E-05	1.98E-04	1.98E-04	2.88E-02	1.02E-03	2.67E-02	6.95E-04	1.95E-05	1.54E-05	1.98E-04	2.86E-02
9.14E-04	2.40E-02	6.96E-04	2.34E-05	1.96E-04	1.96E-04	2.61E-02	9.14E-04	2.40E-02	6.96E-04	2.34E-05	2.06E-05	1.96E-04	2.59E-02
8.23E-04	2.11E-02	5.89E-04	2.35E-05	1.73E-04	1.73E-04	2.29E-02	8.23E-04	2.11E-02	5.89E-04	2.35E-05	2.12E-05	1.73E-04	2.28E-02
7.29E-04	1.79E-02	4.77E-04	2.04E-05	1.53E-04	1.53E-04	1.95E-02	7.29E-04	1.79E-02	4.77E-04	2.04E-05	1.91E-05	1.53E-04	1.93E-02
6.06E-04	1.34E-02	3.27E-04	1.38E-05	1.22E-04	1.22E-04	1.46E-02	6.06E-04	1.34E-02	3.27E-04	1.38E-05	1.20E-05	1.22E-04	1.45E-02
3.79E-04	5.70E-03	1.48E-04	4.74E-06	7.13E-05	7.13E-05	6.38E-03	3.79E-04	5.70E-03	1.48E-04	4.74E-06	4.76E-06	7.13E-05	6.31E-03
4.25E-04	7.54E-03	1.88E-04	6.72E-06	8.35E-05	8.35E-05	8.32E-03	4.25E-04	7.54E-03	1.88E-04	6.72E-06	6.24E-06	8.35E-05	8.25E-03
4.64E-04	9.30E-03	2.39E-04	9.45E-06	9.83E-05	9.83E-05	1.02E-02	4.64E-04	9.30E-03	2.39E-04	9.45E-06	8.04E-06	9.83E-05	1.01E-02
4.43E-04	8.87E-03	2.39E-04	9.26E-06	9.90E-05	9.90E-05	9.76E-03	4.43E-04	8.87E-03	2.39E-04	9.26E-06	8.43E-06	9.90E-05	9.67E-03
4.29E-04	8.70E-03	2.44E-04	9.43E-06	1.00E-04	1.00E-04	9.58E-03	4.29E-04	8.70E-03	2.44E-04	9.43E-06	8.42E-06	1.00E-04	9.49E-03
4.11E-04	8.29E-03	2.43E-04	9.43E-06	9.95E-05	9.95E-05	9.15E-03	4.11E-04	8.29E-03	2.43E-04	9.43E-06	7.97E-06	9.95E-05	9.06E-03
3.77E-04	7.28E-03	2.12E-04	7.92E-06	9.16E-05	9.16E-05	8.06E-03	3.77E-04	7.28E-03	2.12E-04	7.92E-06	6.80E-06	9.16E-05	7.98E-03
3.59E-04	6.80E-03	2.04E-04	7.65E-06	9.09E-05	9.09E-05	7.56E-03	3.59E-04	6.80E-03	2.04E-04	7.65E-06	6.66E-06	9.09E-05	7.47E-03
3.36E-04	6.16E-03	1.89E-04	6.90E-06	8.80E-05	8.80E-05	6.87E-03	3.36E-04	6.16E-03	1.89E-04	6.90E-06	6.40E-06	8.80E-05	6.78E-03
3.28E-04	5.98E-03	1.82E-04	6.78E-06	8.88E-05	8.88E-05	6.68E-03	3.28E-04	5.98E-03	1.82E-04	6.78E-06	6.15E-06	8.88E-05	6.59E-03
3.27E-04	6.13E-03	1.92E-04	7.22E-06	9.57E-05	9.57E-05	6.85E-03	3.27E-04	6.13E-03	1.92E-04	7.22E-06	6.50E-06	9.57E-05	6.76E-03
3.16E-04	5.87E-03	1.84E-04	6.83E-06	9.50E-05	9.50E-05	6.57E-03	3.16E-04	5.87E-03	1.84E-04	6.83E-06	6.32E-06	9.50E-05	6.48E-03
3.07E-04	5.66E-03	1.80E-04	6.58E-06	9.01E-05	9.01E-05	6.33E-03	3.07E-04	5.66E-03	1.80E-04	6.58E-06	5.78E-06	9.01E-05	6.25E-03
2.93E-04	5.28E-03	1.70E-04	6.13E-06	8.45E-05	8.45E-05	5.92E-03	2.93E-04	5.28E-03	1.70E-04	6.13E-06	5.24E-06	8.45E-05	5.84E-03
2.79E-04	4.85E-03	1.60E-04	5.63E-06	8.08E-05	8.08E-05	5.46E-03	2.79E-04	4.85E-03	1.60E-04	5.63E-06	5.04E-06	8.08E-05	5.38E-03
2.62E-04	4.34E-03	1.50E-04	5.09E-06	7.44E-05	7.44E-05	4.91E-03	2.62E-04	4.34E-03	1.50E-04	5.09E-06	4.58E-06	7.44E-05	4.84E-03
2.54E-04	4.15E-03	1.51E-04	4.96E-06	7.29E-05	7.29E-05	4.70E-03	2.54E-04	4.15E-03	1.51E-04	4.96E-06	4.43E-06	7.29E-05	4.63E-03
2.46E-04	3.93E-03	1.52E-04	4.83E-06	7.49E-05	7.49E-05	4.48E-03	2.46E-04	3.93E-03	1.52E-04	4.83E-06	4.37E-06	7.49E-05	4.41E-03
2.39E-04	3.76E-03	1.55E-04	4.87E-06	7.71E-05	7.71E-05	4.32E-03	2.39E-04	3.76E-03	1.55E-04	4.87E-06	4.41E-06	7.71E-05	4.24E-03
2.34E-04	3.65E-03	1.61E-04	5.04E-06	7.94E-05	7.94E-05	4.21E-03	2.34E-04	3.65E-03	1.61E-04	5.04E-06	4.47E-06	7.94E-05	4.14E-03
2.32E-04	3.66E-03	1.72E-04	5.44E-06	8.26E-05	8.26E-05	4.24E-03	2.32E-04	3.66E-03	1.72E-04	5.44E-06	4.65E-06	8.26E-05	4.16E-03
2.25E-04	3.45E-03	1.75E-04	5.45E-06	8.18E-05	8.18E-05	4.02E-03	2.25E-04	3.45E-03	1.75E-04	5.45E-06	4.79E-06	8.18E-05	3.94E-03
2.15E-04	3.14E-03	1.73E-04	5.29E-06	8.12E-05	8.12E-05	3.70E-03	2.15E-04	3.14E-03	1.73E-04	5.29E-06	4.79E-06	8.12E-05	3.62E-03
2.06E-04	2.90E-03	1.77E-04	5.29E-06	8.25E-05	8.25E-05	3.45E-03	2.06E-04	2.90E-03	1.77E-04	5.29E-06	4.88E-06	8.25E-05	3.37E-03
1.99E-04	2.72E-03	1.83E-04	5.42E-06	8.34E-05	8.34E-05	3.27E-03	1.99E-04	2.72E-03	1.83E-04	5.42E-06	5.00E-06	8.34E-05	3.19E-03
1.89E-04	2.42E-03	1.84E-04	5.33E-06	8.21E-05	8.21E-05	2.96E-03	1.89E-04	2.42E-03	1.84E-04	5.33E-06	4.99E-06	8.21E-05	2.89E-03
1.79E-04	2.12E-03	1.84E-04	5.20E-06	8.03E-05	8.03E-05	2.65E-03	1.79E-04	2.12E-03	1.84E-04	5.20E-06	4.92E-06	8.03E-05	2.58E-03
1.73E-04	1.97E-03	1.90E-04	5.36E-06	8.04E-05	8.04E-05	2.50E-03	1.73E-04	1.97E-03	1.90E-04	5.36E-06	5.01E-06	8.04E-05	2.43E-03
1.67E-04	1.84E-03	1.98E-04	5.56E-06	8.22E-05	8.22E-05	2.38E-03	1.67E-04	1.84E-03	1.98E-04	5.56E-06	5.08E-06	8.22E-05	2.30E-03
1.62E-04	1.72E-03	2.05E-04	5.76E-06	8.47E-05	8.47E-05	2.26E-03	1.62E-04	1.72E-03	2.05E-04	5.76E-06	5.20E-06	8.47E-05	2.18E-03
1.61E-04	1.70E-03	2.18E-04	6.14E-06	8.94E-05	8.94E-05	2.26E-03	1.61E-04	1.70E-03	2.18E-04	6.14E-06	5.55E-06	8.94E-05	2.18E-03
1.53E-04	1.50E-03	2.18E-04	6.09E-06	9.15E-05	9.15E-05	2.06E-03	1.53E-04	1.50E-03	2.18E-04	6.09E-06	5.61E-06	9.15E-05	1.98E-03
1.50E-04	1.44E-03	2.27E-04	6.39E-06	9.63E-05	9.63E-05	2.02E-03	1.50E-04	1.44E-03	2.27E-04	6.39E-06	5.95E-06	9.63E-05	1.93E-03
1.53E-04	1.52E-03	2.50E-04	7.13E-06	1.05E-04	1.05E-04	2.15E-03	1.53E-04	1.52E-03	2.50E-04	7.13E-06	6.64E-06	1.05E-04	2.05E-03
1.49E-04	1.44E-03	2.57E-04	7.34E-06	1.10E-04	1.10E-04	2.08E-03	1.49E-04	1.44E-03	2.57E-04	7.34E-06	6.94E-06	1.10E-04	1.97E-03
1.55E-04	1.60E-03	2.91E-04	8.44E-06	1.23E-04	1.23E-04	2.30E-03	1.55E-04	1.60E-03	2.91E-04	8.44E-06	8.01E-06	1.23E-04	2.18E-03
1.73E-04	2.14E-03	3.81E-04	1.15E-05	1.50E-04	1.50E-04	3.00E-03	1.73E-04	2.14E-03	3.81E-04	1.15E-05	1.07E-05	1.50E-04	2.86E-03
1.72E-04	2.12E-03	4.02E-04	1.23E-05	1.56E-04	1.56E-04	3.02E-03	1.72E-04	2.12E-03	4.02E-04	1.23E-05	1.15E-05	1.56E-04	2.88E-03
2.85E-04	5.14E-03	4.94E-04	1.44E-05	1.83E-04	1.83E-04	6.30E-03	2.85E-04	5.14E-03	4.94E-04	1.44E-05	1.22E-05	1.83E-04	6.13E-03
3.17E-04	6.25E-03	5.29E-04	1.55E-05	1.90E-04	1.90E-04	7.49E-03	3.17E-04	6.25E-03	5.29E-04	1.55E-05	1.36E-05	1.90E-04	7.32E-03
3.59E-04	7.80E-03	5.53E-04	1.66E-05	1.93E-04	1.93E-04	9.11E-03	3.59E-04	7.80E-03	5.53E-04	1.66E-05	1.49E-05	1.93E-04	8.93E-03

4.22E-04	1.01E-02	5.68E-04	1.75E-05	1.95E-04	1.95E-04	1.15E-02	4.22E-04	1.01E-02	5.68E-04	1.75E-05	1.57E-05	1.95E-04	1.13E-02
5.17E-04	1.38E-02	5.82E-04	1.82E-05	1.99E-04	1.99E-04	1.53E-02	5.17E-04	1.38E-02	5.82E-04	1.82E-05	1.59E-05	1.99E-04	1.51E-02
6.85E-04	2.01E-02	5.85E-04	1.87E-05	1.98E-04	1.98E-04	2.18E-02	6.85E-04	2.01E-02	5.85E-04	1.87E-05	1.60E-05	1.98E-04	2.16E-02
1.06E-03	3.20E-02	5.91E-04	1.92E-05	1.95E-04	1.95E-04	3.40E-02	1.06E-03	3.20E-02	5.91E-04	1.92E-05	1.62E-05	1.95E-04	3.39E-02
3.43E-03	9.07E-02	5.58E-04	1.85E-05	1.77E-04	1.77E-04	9.51E-02	3.43E-03	9.07E-02	5.58E-04	1.85E-05	1.58E-05	1.77E-04	9.49E-02
7.39E-03	1.79E-01	5.31E-04	1.81E-05	1.70E-04	1.70E-04	1.87E-01	7.39E-03	1.79E-01	5.31E-04	1.81E-05	1.54E-05	1.70E-04	1.87E-01
3.61E-03	9.89E-02	5.23E-04	1.84E-05	1.92E-04	1.92E-04	1.03E-01	3.61E-03	9.89E-02	5.23E-04	1.84E-05	1.56E-05	1.92E-04	1.03E-01
2.53E-03	6.87E-02	4.71E-04	1.74E-05	2.02E-04	2.02E-04	7.21E-02	2.53E-03	6.87E-02	4.71E-04	1.74E-05	1.49E-05	2.02E-04	7.19E-02
1.92E-03	5.22E-02	4.75E-04	1.60E-05	2.04E-04	2.04E-04	5.50E-02	1.92E-03	5.22E-02	4.75E-04	1.60E-05	1.35E-05	2.04E-04	5.48E-02
1.74E-03	5.20E-02	7.19E-04	1.90E-05	2.51E-04	2.51E-04	5.49E-02	1.74E-03	5.20E-02	7.19E-04	1.90E-05	1.47E-05	2.51E-04	5.47E-02
1.42E-03	4.21E-02	8.16E-04	2.23E-05	2.26E-04	2.26E-04	4.48E-02	1.42E-03	4.21E-02	8.16E-04	2.23E-05	1.74E-05	2.26E-04	4.46E-02
1.20E-03	3.57E-02	8.05E-04	2.68E-05	2.21E-04	2.21E-04	3.82E-02	1.20E-03	3.57E-02	8.05E-04	2.68E-05	2.34E-05	2.21E-04	3.80E-02
1.00E-03	2.89E-02	6.45E-04	2.62E-05	1.86E-04	1.86E-04	3.10E-02	1.00E-03	2.89E-02	6.45E-04	2.62E-05	2.37E-05	1.86E-04	3.08E-02
8.26E-04	2.25E-02	4.85E-04	2.13E-05	1.59E-04	1.59E-04	2.41E-02	8.26E-04	2.25E-02	4.85E-04	2.13E-05	1.99E-05	1.59E-04	2.40E-02
6.86E-04	1.73E-02	3.61E-04	1.53E-05	1.32E-04	1.32E-04	1.86E-02	6.86E-04	1.73E-02	3.61E-04	1.53E-05	1.29E-05	1.32E-04	1.85E-02
6.40E-04	1.61E-02	3.66E-04	1.46E-05	1.31E-04	1.31E-04	1.74E-02	6.40E-04	1.61E-02	3.66E-04	1.46E-05	1.27E-05	1.31E-04	1.73E-02
6.02E-04	1.51E-02	3.61E-04	1.49E-05	1.31E-04	1.31E-04	1.64E-02	6.02E-04	1.51E-02	3.61E-04	1.49E-05	1.27E-05	1.31E-04	1.63E-02
5.52E-04	1.34E-02	3.34E-04	1.36E-05	1.22E-04	1.22E-04	1.46E-02	5.52E-04	1.34E-02	3.34E-04	1.36E-05	1.14E-05	1.22E-04	1.45E-02
4.94E-04	1.14E-02	2.87E-04	1.13E-05	1.12E-04	1.12E-04	1.24E-02	4.94E-04	1.14E-02	2.87E-04	1.13E-05	1.02E-05	1.12E-04	1.23E-02
4.38E-04	9.46E-03	2.45E-04	9.28E-06	1.01E-04	1.01E-04	1.04E-02	4.38E-04	9.46E-03	2.45E-04	9.28E-06	7.98E-06	1.01E-04	1.03E-02
3.95E-04	7.98E-03	2.11E-04	7.66E-06	9.15E-05	9.15E-05	8.78E-03	3.95E-04	7.98E-03	2.11E-04	7.66E-06	6.64E-06	9.15E-05	8.69E-03
3.62E-04	6.92E-03	1.90E-04	6.68E-06	8.77E-05	8.77E-05	7.66E-03	3.62E-04	6.92E-03	1.90E-04	6.68E-06	6.00E-06	8.77E-05	7.57E-03
3.46E-04	6.54E-03	1.85E-04	6.53E-06	8.75E-05	8.75E-05	7.26E-03	3.46E-04	6.54E-03	1.85E-04	6.53E-06	6.10E-06	8.75E-05	7.17E-03
3.59E-04	7.23E-03	2.05E-04	7.70E-06	9.48E-05	9.48E-05	7.99E-03	3.59E-04	7.23E-03	2.05E-04	7.70E-06	6.92E-06	9.48E-05	7.90E-03
3.66E-04	7.75E-03	2.26E-04	8.81E-06	1.05E-04	1.05E-04	8.57E-03	3.66E-04	7.75E-03	2.26E-04	8.81E-06	7.76E-06	1.05E-04	8.47E-03
3.52E-04	7.32E-03	2.16E-04	8.25E-06	1.06E-04	1.06E-04	8.11E-03	3.52E-04	7.32E-03	2.16E-04	8.25E-06	7.49E-06	1.06E-04	8.01E-03
3.38E-04	6.92E-03	2.08E-04	7.83E-06	1.01E-04	1.01E-04	7.67E-03	3.38E-04	6.92E-03	2.08E-04	7.83E-06	6.73E-06	1.01E-04	7.58E-03
3.18E-04	6.27E-03	1.92E-04	7.02E-06	9.28E-05	9.28E-05	6.97E-03	3.18E-04	6.27E-03	1.92E-04	7.02E-06	5.92E-06	9.28E-05	6.88E-03
2.98E-04	5.60E-03	1.77E-04	6.23E-06	8.69E-05	8.69E-05	6.25E-03	2.98E-04	5.60E-03	1.77E-04	6.23E-06	5.57E-06	8.69E-05	6.17E-03
2.90E-04	5.38E-03	1.79E-04	6.19E-06	8.32E-05	8.32E-05	6.02E-03	2.90E-04	5.38E-03	1.79E-04	6.19E-06	5.37E-06	8.32E-05	5.95E-03
2.78E-04	5.01E-03	1.78E-04	5.89E-06	8.07E-05	8.07E-05	5.63E-03	2.78E-04	5.01E-03	1.78E-04	5.89E-06	5.06E-06	8.07E-05	5.55E-03
2.69E-04	4.76E-03	1.81E-04	5.87E-06	8.31E-05	8.31E-05	5.39E-03	2.69E-04	4.76E-03	1.81E-04	5.87E-06	5.07E-06	8.31E-05	5.31E-03
2.59E-04	4.48E-03	1.84E-04	5.89E-06	8.53E-05	8.53E-05	5.10E-03	2.59E-04	4.48E-03	1.84E-04	5.89E-06	5.09E-06	8.53E-05	5.02E-03
2.54E-04	4.35E-03	1.93E-04	6.20E-06	8.92E-05	8.92E-05	4.98E-03	2.54E-04	4.35E-03	1.93E-04	6.20E-06	5.24E-06	8.92E-05	4.89E-03
2.49E-04	4.22E-03	2.03E-04	6.52E-06	9.23E-05	9.23E-05	4.87E-03	2.49E-04	4.22E-03	2.03E-04	6.52E-06	5.51E-06	9.23E-05	4.78E-03
2.37E-04	3.85E-03	2.03E-04	6.33E-06	8.99E-05	8.99E-05	4.48E-03	2.37E-04	3.85E-03	2.03E-04	6.33E-06	5.48E-06	8.99E-05	4.39E-03
2.25E-04	3.49E-03	2.04E-04	6.24E-06	8.98E-05	8.98E-05	4.10E-03	2.25E-04	3.49E-03	2.04E-04	6.24E-06	5.52E-06	8.98E-05	4.02E-03
2.17E-04	3.25E-03	2.12E-04	6.32E-06	9.13E-05	9.13E-05	3.87E-03	2.17E-04	3.25E-03	2.12E-04	6.32E-06	5.63E-06	9.13E-05	3.78E-03
2.04E-04	2.86E-03	2.12E-04	6.15E-06	9.04E-05	9.04E-05	3.46E-03	2.04E-04	2.86E-03	2.12E-04	6.15E-06	5.57E-06	9.04E-05	3.37E-03
1.92E-04	2.48E-03	2.11E-04	6.00E-06	8.85E-05	8.85E-05	3.07E-03	1.92E-04	2.48E-03	2.11E-04	6.00E-06	5.50E-06	8.85E-05	2.99E-03
1.79E-04	2.10E-03	2.08E-04	5.82E-06	8.53E-05	8.53E-05	2.67E-03	1.79E-04	2.10E-03	2.08E-04	5.82E-06	5.31E-06	8.53E-05	2.59E-03
1.67E-04	1.77E-03	2.06E-04	5.69E-06	8.40E-05	8.40E-05	2.32E-03	1.67E-04	1.77E-03	2.06E-04	5.69E-06	5.17E-06	8.40E-05	2.24E-03
1.65E-04	1.75E-03	2.20E-04	6.14E-06	8.88E-05	8.88E-05	2.32E-03	1.65E-04	1.75E-03	2.20E-04	6.14E-06	5.49E-06	8.88E-05	2.24E-03
1.61E-04	1.67E-03	2.31E-04	6.46E-06	9.31E-05	9.31E-05	2.25E-03	1.61E-04	1.67E-03	2.31E-04	6.46E-06	5.78E-06	9.31E-05	2.17E-03
1.61E-04	1.68E-03	2.50E-04	7.03E-06	1.00E-04	1.00E-04	2.30E-03	1.61E-04	1.68E-03	2.50E-04	7.03E-06	6.33E-06	1.00E-04	2.21E-03
1.60E-04	1.66E-03	2.65E-04	7.54E-06	1.07E-04	1.07E-04	2.31E-03	1.60E-04	1.66E-03	2.65E-04	7.54E-06	6.85E-06	1.07E-04	2.21E-03
1.51E-04	1.44E-03	2.60E-04	7.37E-06	1.08E-04	1.08E-04	2.07E-03	1.51E-04	1.44E-03	2.60E-04	7.37E-06	6.89E-06	1.08E-04	1.97E-03
1.50E-04	1.42E-03	2.75E-04	7.83E-06	1.15E-04	1.15E-04	2.08E-03	1.50E-04	1.42E-03	2.75E-04	7.83E-06	7.40E-06	1.15E-04	1.98E-03
1.56E-04	1.58E-03	3.11E-04	9.01E-06	1.28E-04	1.28E-04	2.31E-03	1.56E-04	1.58E-03	3.11E-04	9.01E-06	8.53E-06	1.28E-04	2.19E-03
1.70E-04	2.00E-03	3.89E-04	1.16E-05	1.52E-04	1.52E-04	2.88E-03	1.70E-04	2.00E-03	3.89E-04	1.16E-05	1.09E-05	1.52E-04	2.74E-03
1.75E-04	2.15E-03	4.35E-04	1.32E-05	1.66E-04	1.66E-04	3.10E-03	1.75E-04	2.15E-03	4.35E-04	1.32E-05	1.24E-05	1.66E-04	2.95E-03
1.77E-04	2.22E-03	4.74E-04	1.46E-05	1.76E-04	1.76E-04	3.24E-03	1.77E-04	2.22E-03	4.74E-04	1.46E-05	1.38E-05	1.76E-04	3.08E-03
2.50E-04	4.99E-03	4.64E-04	1.39E-05	1.87E-04	1.87E-04	6.09E-03	2.50E-04	4.99E-03	4.64E-04	1.39E-05	1.20E-05	1.87E-04	5.91E-03
2.76E-04	6.02E-03	5.21E-04	1.52E-05	2.00E-04	2.00E-04	7.23E-03	2.76E-04	6.02E-03	5.21E-04	1.52E-05	1.29E-05	2.00E-04	7.04E-03

3.07E-04	7.24E-03	5.63E-04	1.64E-05	2.06E-04	2.06E-04	8.54E-03	3.07E-04	7.24E-03	5.63E-04	1.64E-05	1.39E-05	2.06E-04	8.35E-03
3.46E-04	8.98E-03	6.00E-04	1.76E-05	2.12E-04	2.12E-04	1.04E-02	3.46E-04	8.98E-03	6.00E-04	1.76E-05	1.53E-05	2.12E-04	1.02E-02
4.04E-04	1.15E-02	6.28E-04	1.88E-05	2.14E-04	2.14E-04	1.30E-02	4.04E-04	1.15E-02	6.28E-04	1.88E-05	1.68E-05	2.14E-04	1.28E-02
4.90E-04	1.51E-02	6.48E-04	1.99E-05	2.17E-04	2.17E-04	1.67E-02	4.90E-04	1.51E-02	6.48E-04	1.99E-05	1.76E-05	2.17E-04	1.65E-02
6.22E-04	2.03E-02	6.59E-04	2.07E-05	2.19E-04	2.19E-04	2.20E-02	6.22E-04	2.03E-02	6.59E-04	2.07E-05	1.79E-05	2.19E-04	2.18E-02
8.60E-04	2.90E-02	6.67E-04	2.15E-05	2.16E-04	2.16E-04	3.10E-02	8.60E-04	2.90E-02	6.67E-04	2.15E-05	1.81E-05	2.16E-04	3.08E-02
1.40E-03	4.82E-02	6.63E-04	2.17E-05	2.09E-04	2.09E-04	5.07E-02	1.40E-03	4.82E-02	6.63E-04	2.17E-05	1.81E-05	2.09E-04	5.05E-02
2.42E-03	8.36E-02	6.62E-04	2.22E-05	2.14E-04	2.14E-04	8.71E-02	2.42E-03	8.36E-02	6.62E-04	2.22E-05	1.81E-05	2.14E-04	8.69E-02
5.29E-03	1.55E-01	6.44E-04	2.24E-05	2.38E-04	2.38E-04	1.62E-01	5.29E-03	1.55E-01	6.44E-04	2.24E-05	1.80E-05	2.38E-04	1.61E-01
1.47E-02	3.44E-01	5.99E-04	2.15E-05	2.62E-04	2.62E-04	3.60E-01	1.47E-02	3.44E-01	5.99E-04	2.15E-05	1.76E-05	2.62E-04	3.60E-01
4.21E-03	1.24E-01	6.17E-04	2.02E-05	2.71E-04	2.71E-04	1.29E-01	4.21E-03	1.24E-01	6.17E-04	2.02E-05	1.65E-05	2.71E-04	1.29E-01
2.53E-03	7.97E-02	7.81E-04	2.08E-05	2.64E-04	2.64E-04	8.36E-02	2.53E-03	7.97E-02	7.81E-04	2.08E-05	1.61E-05	2.64E-04	8.33E-02
1.86E-03	6.01E-02	9.50E-04	2.55E-05	2.56E-04	2.56E-04	6.35E-02	1.86E-03	6.01E-02	9.50E-04	2.55E-05	1.95E-05	2.56E-04	6.32E-02
1.41E-03	4.47E-02	8.58E-04	2.95E-05	2.27E-04	2.27E-04	4.75E-02	1.41E-03	4.47E-02	8.58E-04	2.95E-05	2.56E-05	2.27E-04	4.73E-02
1.15E-03	3.57E-02	7.13E-04	2.94E-05	2.02E-04	2.02E-04	3.80E-02	1.15E-03	3.57E-02	7.13E-04	2.94E-05	2.67E-05	2.02E-04	3.78E-02
9.06E-04	2.64E-02	5.15E-04	2.29E-05	1.70E-04	1.70E-04	2.82E-02	9.06E-04	2.64E-02	5.15E-04	2.29E-05	2.13E-05	1.70E-04	2.80E-02
8.58E-04	2.55E-02	5.50E-04	2.26E-05	1.79E-04	1.79E-04	2.73E-02	8.58E-04	2.55E-02	5.50E-04	2.26E-05	1.84E-05	1.79E-04	2.72E-02
7.54E-04	2.17E-02	4.88E-04	1.98E-05	1.66E-04	1.66E-04	2.33E-02	7.54E-04	2.17E-02	4.88E-04	1.98E-05	1.69E-05	1.66E-04	2.31E-02
6.44E-04	1.73E-02	3.91E-04	1.64E-05	1.39E-04	1.39E-04	1.86E-02	6.44E-04	1.73E-02	3.91E-04	1.64E-05	1.36E-05	1.39E-04	1.85E-02
5.29E-04	1.28E-02	2.83E-04	1.10E-05	1.12E-04	1.12E-04	1.38E-02	5.29E-04	1.28E-02	2.83E-04	1.10E-05	9.74E-06	1.12E-04	1.37E-02
4.72E-04	1.08E-02	2.55E-04	9.43E-06	1.04E-04	1.04E-04	1.18E-02	4.72E-04	1.08E-02	2.55E-04	9.43E-06	8.30E-06	1.04E-04	1.17E-02
4.16E-04	8.78E-03	2.17E-04	7.65E-06	9.37E-05	9.37E-05	9.61E-03	4.16E-04	8.78E-03	2.17E-04	7.65E-06	6.78E-06	9.37E-05	9.52E-03
3.83E-04	7.72E-03	2.01E-04	6.94E-06	9.05E-05	9.05E-05	8.50E-03	3.83E-04	7.72E-03	2.01E-04	6.94E-06	6.22E-06	9.05E-05	8.41E-03
3.43E-04	6.39E-03	1.77E-04	5.95E-06	8.62E-05	8.62E-05	7.09E-03	3.43E-04	6.39E-03	1.77E-04	5.95E-06	5.65E-06	8.62E-05	7.01E-03
3.91E-04	8.54E-03	2.26E-04	8.58E-06	1.02E-04	1.02E-04	9.37E-03	3.91E-04	8.54E-03	2.26E-04	8.58E-06	7.80E-06	1.02E-04	9.28E-03
4.05E-04	9.41E-03	2.65E-04	1.05E-05	1.15E-04	1.15E-04	1.03E-02	4.05E-04	9.41E-03	2.65E-04	1.05E-05	9.21E-06	1.15E-04	1.02E-02
3.88E-04	8.89E-03	2.56E-04	1.00E-05	1.19E-04	1.19E-04	9.78E-03	3.88E-04	8.89E-03	2.56E-04	1.00E-05	8.96E-06	1.19E-04	9.67E-03
3.44E-04	7.17E-03	2.05E-04	7.49E-06	1.02E-04	1.02E-04	7.93E-03	3.44E-04	7.17E-03	2.05E-04	7.49E-06	6.62E-06	1.02E-04	7.84E-03
3.07E-04	5.86E-03	1.79E-04	6.16E-06	8.99E-05	8.99E-05	6.53E-03	3.07E-04	5.86E-03	1.79E-04	6.16E-06	5.44E-06	8.99E-05	6.45E-03
3.20E-04	6.49E-03	2.04E-04	7.20E-06	9.47E-05	9.47E-05	7.21E-03	3.20E-04	6.49E-03	2.04E-04	7.20E-06	6.29E-06	9.47E-05	7.12E-03
3.14E-04	6.36E-03	2.15E-04	7.40E-06	9.28E-05	9.28E-05	7.09E-03	3.14E-04	6.36E-03	2.15E-04	7.40E-06	6.15E-06	9.28E-05	7.00E-03
3.01E-04	5.94E-03	2.14E-04	7.14E-06	9.10E-05	9.10E-05	6.65E-03	3.01E-04	5.94E-03	2.14E-04	7.14E-06	6.02E-06	9.10E-05	6.56E-03
2.89E-04	5.59E-03	2.18E-04	7.18E-06	9.31E-05	9.31E-05	6.29E-03	2.89E-04	5.59E-03	2.18E-04	7.18E-06	5.95E-06	9.31E-05	6.20E-03
2.80E-04	5.32E-03	2.26E-04	7.47E-06	9.72E-05	9.72E-05	6.03E-03	2.80E-04	5.32E-03	2.26E-04	7.47E-06	6.16E-06	9.72E-05	5.94E-03
2.72E-04	5.06E-03	2.35E-04	7.74E-06	1.01E-04	1.01E-04	5.78E-03	2.72E-04	5.06E-03	2.35E-04	7.74E-06	6.41E-06	1.01E-04	5.69E-03
2.62E-04	4.73E-03	2.43E-04	7.82E-06	1.03E-04	1.03E-04	5.45E-03	2.62E-04	4.73E-03	2.43E-04	7.82E-06	6.53E-06	1.03E-04	5.35E-03
2.47E-04	4.25E-03	2.44E-04	7.57E-06	9.98E-05	9.98E-05	4.95E-03	2.47E-04	4.25E-03	2.44E-04	7.57E-06	6.42E-06	9.98E-05	4.86E-03
2.36E-04	3.88E-03	2.48E-04	7.56E-06	1.01E-04	1.01E-04	4.57E-03	2.36E-04	3.88E-03	2.48E-04	7.56E-06	6.54E-06	1.01E-04	4.48E-03
2.26E-04	3.56E-03	2.58E-04	7.63E-06	1.03E-04	1.03E-04	4.26E-03	2.26E-04	3.56E-03	2.58E-04	7.63E-06	6.62E-06	1.03E-04	4.16E-03
2.12E-04	3.10E-03	2.58E-04	7.46E-06	1.01E-04	1.01E-04	3.78E-03	2.12E-04	3.10E-03	2.58E-04	7.46E-06	6.49E-06	1.01E-04	3.69E-03
1.99E-04	2.69E-03	2.59E-04	7.37E-06	9.90E-05	9.90E-05	3.36E-03	1.99E-04	2.69E-03	2.59E-04	7.37E-06	6.40E-06	9.90E-05	3.26E-03
1.82E-04	2.17E-03	2.48E-04	6.94E-06	9.49E-05	9.49E-05	2.80E-03	1.82E-04	2.17E-03	2.48E-04	6.94E-06	6.06E-06	9.49E-05	2.71E-03
1.74E-04	1.95E-03	2.53E-04	7.08E-06	9.71E-05	9.71E-05	2.58E-03	1.74E-04	1.95E-03	2.53E-04	7.08E-06	6.20E-06	9.71E-05	2.49E-03
1.69E-04	1.82E-03	2.64E-04	7.37E-06	1.01E-04	1.01E-04	2.46E-03	1.69E-04	1.82E-03	2.64E-04	7.37E-06	6.46E-06	1.01E-04	2.36E-03
1.68E-04	1.81E-03	2.84E-04	8.01E-06	1.09E-04	1.09E-04	2.49E-03	1.68E-04	1.81E-03	2.84E-04	8.01E-06	7.07E-06	1.09E-04	2.39E-03
1.75E-04	2.04E-03	3.28E-04	9.49E-06	1.24E-04	1.24E-04	2.80E-03	1.75E-04	2.04E-03	3.28E-04	9.49E-06	8.42E-06	1.24E-04	2.69E-03
1.75E-04	2.06E-03	3.54E-04	1.03E-05	1.33E-04	1.33E-04	2.87E-03	1.75E-04	2.06E-03	3.54E-04	1.03E-05	9.29E-06	1.33E-04	2.74E-03
1.54E-04	1.48E-03	3.07E-04	8.81E-06	1.24E-04	1.24E-04	2.20E-03	1.54E-04	1.48E-03	3.07E-04	8.81E-06	8.25E-06	1.24E-04	2.09E-03
1.49E-04	1.37E-03	3.12E-04	8.96E-06	1.28E-04	1.28E-04	2.10E-03	1.49E-04	1.37E-03	3.12E-04	8.96E-06	8.56E-06	1.28E-04	1.98E-03
1.69E-04	1.89E-03	4.05E-04	1.21E-05	1.57E-04	1.57E-04	2.79E-03	1.69E-04	1.89E-03	4.05E-04	1.21E-05	1.13E-05	1.57E-04	2.65E-03
1.72E-04	2.00E-03	4.49E-04	1.35E-05	1.70E-04	1.70E-04	2.98E-03	1.72E-04	2.00E-03	4.49E-04	1.35E-05	1.28E-05	1.70E-04	2.82E-03
1.89E-04	2.52E-03	5.70E-04	1.79E-05	2.01E-04	2.01E-04	3.70E-03	1.89E-04	2.52E-03	5.70E-04	1.79E-05	1.67E-05	2.01E-04	3.51E-03
1.83E-04	2.34E-03	5.66E-04	1.77E-05	2.01E-04	2.01E-04	3.51E-03	1.83E-04	2.34E-03	5.66E-04	1.77E-05	1.68E-05	2.01E-04	3.33E-03
2.11E-04	3.91E-03	3.95E-04	1.29E-05	1.66E-04	1.66E-04	4.86E-03	2.11E-04	3.91E-03	3.95E-04	1.29E-05	1.11E-05	1.66E-04	4.71E-03

2.47E-04	5.30E-03	4.69E-04	1.45E-05	1.94E-04	1.94E-04	6.42E-03	2.47E-04	5.30E-03	4.69E-04	1.45E-05	1.25E-05	1.94E-04	6.23E-03
2.74E-04	6.60E-03	5.41E-04	1.61E-05	2.15E-04	2.15E-04	7.86E-03	2.74E-04	6.60E-03	5.41E-04	1.61E-05	1.36E-05	2.15E-04	7.66E-03
3.00E-04	7.97E-03	5.98E-04	1.75E-05	2.26E-04	2.26E-04	9.34E-03	3.00E-04	7.97E-03	5.98E-04	1.75E-05	1.46E-05	2.26E-04	9.13E-03
3.36E-04	9.73E-03	6.41E-04	1.87E-05	2.30E-04	2.30E-04	1.12E-02	3.36E-04	9.73E-03	6.41E-04	1.87E-05	1.58E-05	2.30E-04	1.10E-02
3.81E-04	1.19E-02	6.86E-04	2.02E-05	2.36E-04	2.36E-04	1.35E-02	3.81E-04	1.19E-02	6.86E-04	2.02E-05	1.74E-05	2.36E-04	1.33E-02
4.43E-04	1.47E-02	7.22E-04	2.16E-05	2.39E-04	2.39E-04	1.64E-02	4.43E-04	1.47E-02	7.22E-04	2.16E-05	1.90E-05	2.39E-04	1.62E-02
5.19E-04	1.82E-02	7.44E-04	2.29E-05	2.42E-04	2.42E-04	2.00E-02	5.19E-04	1.82E-02	7.44E-04	2.29E-05	1.99E-05	2.42E-04	1.98E-02
6.23E-04	2.29E-02	7.51E-04	2.38E-05	2.38E-04	2.38E-04	2.48E-02	6.23E-04	2.29E-02	7.51E-04	2.38E-05	2.03E-05	2.38E-04	2.46E-02
7.61E-04	2.91E-02	7.57E-04	2.46E-05	2.33E-04	2.33E-04	3.11E-02	7.61E-04	2.91E-02	7.57E-04	2.46E-05	2.04E-05	2.33E-04	3.09E-02
9.71E-04	3.80E-02	7.58E-04	2.53E-05	2.36E-04	2.36E-04	4.02E-02	9.71E-04	3.80E-02	7.58E-04	2.53E-05	2.05E-05	2.36E-04	4.00E-02
1.44E-03	5.39E-02	7.51E-04	2.59E-05	2.68E-04	2.68E-04	5.66E-02	1.44E-03	5.39E-02	7.51E-04	2.59E-05	2.05E-05	2.68E-04	5.64E-02
3.41E-03	1.01E-01	7.25E-04	2.61E-05	3.17E-04	3.17E-04	1.06E-01	3.41E-03	1.01E-01	7.25E-04	2.61E-05	2.03E-05	3.17E-04	1.06E-01
1.63E-02	3.74E-01	7.43E-04	2.50E-05	3.33E-04	3.33E-04	3.92E-01	1.63E-02	3.74E-01	7.43E-04	2.50E-05	1.95E-05	3.33E-04	3.92E-01
4.46E-03	1.35E-01	9.31E-04	2.49E-05	3.11E-04	3.11E-04	1.41E-01	4.46E-03	1.35E-01	9.31E-04	2.49E-05	1.86E-05	3.11E-04	1.41E-01
2.68E-03	8.73E-02	1.15E-03	3.01E-05	3.04E-04	3.04E-04	9.18E-02	2.68E-03	8.73E-02	1.15E-03	3.01E-05	2.23E-05	3.04E-04	9.15E-02
1.84E-03	6.07E-02	1.03E-03	3.48E-05	2.65E-04	2.65E-04	6.41E-02	1.84E-03	6.07E-02	1.03E-03	3.48E-05	2.98E-05	2.65E-04	6.39E-02
1.47E-03	4.85E-02	9.17E-04	3.61E-05	2.52E-04	2.52E-04	5.14E-02	1.47E-03	4.85E-02	9.17E-04	3.61E-05	3.26E-05	2.52E-04	5.12E-02
1.12E-03	3.55E-02	6.96E-04	2.97E-05	2.12E-04	2.12E-04	3.78E-02	1.12E-03	3.55E-02	6.96E-04	2.97E-05	2.68E-05	2.12E-04	3.76E-02
9.10E-04	2.74E-02	5.59E-04	2.34E-05	1.76E-04	1.76E-04	2.93E-02	9.10E-04	2.74E-02	5.59E-04	2.34E-05	1.91E-05	1.76E-04	2.91E-02
7.78E-04	2.25E-02	4.74E-04	1.99E-05	1.63E-04	1.63E-04	2.41E-02	7.78E-04	2.25E-02	4.74E-04	1.99E-05	1.69E-05	1.63E-04	2.40E-02
6.02E-04	1.53E-02	3.10E-04	1.24E-05	1.21E-04	1.21E-04	1.65E-02	6.02E-04	1.53E-02	3.10E-04	1.24E-05	1.06E-05	1.21E-04	1.64E-02
5.17E-04	1.23E-02	2.65E-04	9.61E-06	1.09E-04	1.09E-04	1.33E-02	5.17E-04	1.23E-02	2.65E-04	9.61E-06	8.65E-06	1.09E-04	1.32E-02
4.58E-04	1.02E-02	2.35E-04	8.24E-06	1.00E-04	1.00E-04	1.11E-02	4.58E-04	1.02E-02	2.35E-04	8.24E-06	7.38E-06	1.00E-04	1.10E-02
4.07E-04	8.52E-03	2.10E-04	7.19E-06	9.40E-05	9.40E-05	9.33E-03	4.07E-04	8.52E-03	2.10E-04	7.19E-06	6.54E-06	9.40E-05	9.24E-03
3.87E-04	8.04E-03	2.05E-04	7.09E-06	9.47E-05	9.47E-05	8.83E-03	3.87E-04	8.04E-03	2.05E-04	7.09E-06	6.60E-06	9.47E-05	8.74E-03
4.24E-04	9.94E-03	2.53E-04	9.67E-06	1.09E-04	1.09E-04	1.08E-02	4.24E-04	9.94E-03	2.53E-04	9.67E-06	8.71E-06	1.09E-04	1.07E-02
4.52E-04	1.15E-02	3.22E-04	1.32E-05	1.29E-04	1.29E-04	1.25E-02	4.52E-04	1.15E-02	3.22E-04	1.32E-05	1.14E-05	1.29E-04	1.24E-02
4.21E-04	1.03E-02	2.93E-04	1.17E-05	1.29E-04	1.29E-04	1.13E-02	4.21E-04	1.03E-02	2.93E-04	1.17E-05	1.02E-05	1.29E-04	1.12E-02
3.81E-04	8.78E-03	2.51E-04	9.60E-06	1.17E-04	1.17E-04	9.66E-03	3.81E-04	8.78E-03	2.51E-04	9.60E-06	8.09E-06	1.17E-04	9.55E-03
3.57E-04	7.88E-03	2.38E-04	8.62E-06	1.08E-04	1.08E-04	8.70E-03	3.57E-04	7.88E-03	2.38E-04	8.62E-06	7.23E-06	1.08E-04	8.60E-03
3.56E-04	8.00E-03	2.60E-04	9.39E-06	1.11E-04	1.11E-04	8.84E-03	3.56E-04	8.00E-03	2.60E-04	9.39E-06	7.80E-06	1.11E-04	8.74E-03
3.42E-04	7.53E-03	2.63E-04	9.22E-06	1.07E-04	1.07E-04	8.36E-03	3.42E-04	7.53E-03	2.63E-04	9.22E-06	7.38E-06	1.07E-04	8.26E-03
3.26E-04	6.98E-03	2.66E-04	8.99E-06	1.03E-04	1.03E-04	7.78E-03	3.26E-04	6.98E-03	2.66E-04	8.99E-06	7.14E-06	1.03E-04	7.69E-03
3.13E-04	6.53E-03	2.73E-04	9.22E-06	1.06E-04	1.06E-04	7.34E-03	3.13E-04	6.53E-03	2.73E-04	9.22E-06	7.20E-06	1.06E-04	7.24E-03
3.02E-04	6.15E-03	2.85E-04	9.59E-06	1.12E-04	1.12E-04	6.97E-03	3.02E-04	6.15E-03	2.85E-04	9.59E-06	7.57E-06	1.12E-04	6.87E-03
2.89E-04	5.73E-03	2.94E-04	9.72E-06	1.16E-04	1.16E-04	6.56E-03	2.89E-04	5.73E-03	2.94E-04	9.72E-06	7.80E-06	1.16E-04	6.45E-03
2.74E-04	5.24E-03	3.01E-04	9.65E-06	1.16E-04	1.16E-04	6.05E-03	2.74E-04	5.24E-03	3.01E-04	9.65E-06	7.79E-06	1.16E-04	5.94E-03
2.60E-04	4.70E-03	3.06E-04	9.42E-06	1.14E-04	1.14E-04	5.50E-03	2.60E-04	4.70E-03	3.06E-04	9.42E-06	7.71E-06	1.14E-04	5.40E-03
2.48E-04	4.31E-03	3.17E-04	9.56E-06	1.17E-04	1.17E-04	5.12E-03	2.48E-04	4.31E-03	3.17E-04	9.56E-06	7.92E-06	1.17E-04	5.01E-03
2.37E-04	3.93E-03	3.28E-04	9.79E-06	1.19E-04	1.19E-04	4.74E-03	2.37E-04	3.93E-03	3.28E-04	9.79E-06	8.03E-06	1.19E-04	4.63E-03
2.22E-04	3.43E-03	3.30E-04	9.63E-06	1.16E-04	1.16E-04	4.22E-03	2.22E-04	3.43E-03	3.30E-04	9.63E-06	7.84E-06	1.16E-04	4.11E-03
2.09E-04	3.01E-03	3.33E-04	9.65E-06	1.15E-04	1.15E-04	3.79E-03	2.09E-04	3.01E-03	3.33E-04	9.65E-06	7.95E-06	1.15E-04	3.69E-03
1.95E-04	2.54E-03	3.27E-04	9.32E-06	1.14E-04	1.14E-04	3.30E-03	1.95E-04	2.54E-03	3.27E-04	9.32E-06	7.81E-06	1.14E-04	3.19E-03
1.81E-04	2.14E-03	3.20E-04	9.06E-06	1.15E-04	1.15E-04	2.88E-03	1.81E-04	2.14E-03	3.20E-04	9.06E-06	7.68E-06	1.15E-04	2.77E-03
1.73E-04	1.90E-03	3.22E-04	9.11E-06	1.18E-04	1.18E-04	2.64E-03	1.73E-04	1.90E-03	3.22E-04	9.11E-06	7.93E-06	1.18E-04	2.53E-03
1.85E-04	2.27E-03	3.88E-04	1.13E-05	1.38E-04	1.38E-04	3.13E-03	1.85E-04	2.27E-03	3.88E-04	1.13E-05	9.85E-06	1.38E-04	3.00E-03
1.90E-04	2.47E-03	4.44E-04	1.32E-05	1.56E-04	1.56E-04	3.43E-03	1.90E-04	2.47E-03	4.44E-04	1.32E-05	1.15E-05	1.56E-04	3.29E-03
1.75E-04	2.01E-03	4.12E-04	1.21E-05	1.52E-04	1.52E-04	2.92E-03	1.75E-04	2.01E-03	4.12E-04	1.21E-05	1.10E-05	1.52E-04	2.77E-03
1.83E-04	2.25E-03	4.76E-04	1.43E-05	1.74E-04	1.74E-04	3.27E-03	1.83E-04	2.25E-03	4.76E-04	1.43E-05	1.30E-05	1.74E-04	3.11E-03
1.83E-04	2.27E-03	5.09E-04	1.55E-05	1.86E-04	1.86E-04	3.35E-03	1.83E-04	2.27E-03	5.09E-04	1.55E-05	1.43E-05	1.86E-04	3.18E-03
1.82E-04	2.25E-03	5.37E-04	1.64E-05	1.94E-04	1.94E-04	3.37E-03	1.82E-04	2.25E-03	5.37E-04	1.64E-05	1.54E-05	1.94E-04	3.19E-03
1.93E-04	2.58E-03	6.36E-04	2.00E-05	2.19E-04	2.19E-04	3.86E-03	1.93E-04	2.58E-03	6.36E-04	2.00E-05	1.87E-05	2.19E-04	3.67E-03
1.94E-04	2.62E-03	6.83E-04	2.17E-05	2.31E-04	2.31E-04	3.98E-03	1.94E-04	2.62E-03	6.83E-04	2.17E-05	2.05E-05	2.31E-04	3.77E-03
1.88E-04	2.43E-03	6.75E-04	2.13E-05	2.33E-04	2.33E-04	3.78E-03	1.88E-04	2.43E-03	6.75E-04	2.13E-05	2.04E-05	2.33E-04	3.57E-03

1.55E-04	2.06E-03	3.23E-04	1.13E-05	1.33E-04	1.33E-04	2.82E-03	1.55E-04	2.06E-03	3.23E-04	1.13E-05	1.00E-05	1.33E-04	2.69E-03
1.98E-04	3.92E-03	4.19E-04	1.41E-05	1.69E-04	1.69E-04	4.88E-03	1.98E-04	3.92E-03	4.19E-04	1.41E-05	1.19E-05	1.69E-04	4.73E-03
2.26E-04	5.22E-03	4.69E-04	1.53E-05	1.91E-04	1.91E-04	6.31E-03	2.26E-04	5.22E-03	4.69E-04	1.53E-05	1.29E-05	1.91E-04	6.13E-03
2.62E-04	7.01E-03	5.62E-04	1.72E-05	2.28E-04	2.28E-04	8.30E-03	2.62E-04	7.01E-03	5.62E-04	1.72E-05	1.44E-05	2.28E-04	8.09E-03
2.86E-04	8.28E-03	6.14E-04	1.83E-05	2.34E-04	2.34E-04	9.67E-03	2.86E-04	8.28E-03	6.14E-04	1.83E-05	1.53E-05	2.34E-04	9.45E-03
3.16E-04	9.75E-03	6.80E-04	1.99E-05	2.47E-04	2.47E-04	1.13E-02	3.16E-04	9.75E-03	6.80E-04	1.99E-05	1.65E-05	2.47E-04	1.10E-02
3.50E-04	1.13E-02	7.41E-04	2.17E-05	2.59E-04	2.59E-04	1.30E-02	3.50E-04	1.13E-02	7.41E-04	2.17E-05	1.81E-05	2.59E-04	1.27E-02
3.89E-04	1.33E-02	7.95E-04	2.34E-05	2.64E-04	2.64E-04	1.50E-02	3.89E-04	1.33E-02	7.95E-04	2.34E-05	2.00E-05	2.64E-04	1.47E-02
4.35E-04	1.55E-02	8.39E-04	2.52E-05	2.69E-04	2.69E-04	1.73E-02	4.35E-04	1.55E-02	8.39E-04	2.52E-05	2.17E-05	2.69E-04	1.71E-02
5.01E-04	1.84E-02	8.62E-04	2.67E-05	2.68E-04	2.68E-04	2.03E-02	5.01E-04	1.84E-02	8.62E-04	2.67E-05	2.28E-05	2.68E-04	2.01E-02
5.82E-04	2.24E-02	8.71E-04	2.79E-05	2.62E-04	2.62E-04	2.44E-02	5.82E-04	2.24E-02	8.71E-04	2.79E-05	2.32E-05	2.62E-04	2.42E-02
7.02E-04	2.78E-02	8.77E-04	2.89E-05	2.64E-04	2.64E-04	2.99E-02	7.02E-04	2.78E-02	8.77E-04	2.89E-05	2.34E-05	2.64E-04	2.97E-02
9.06E-04	3.54E-02	8.76E-04	2.98E-05	2.98E-04	2.98E-04	3.78E-02	9.06E-04	3.54E-02	8.76E-04	2.98E-05	2.35E-05	2.98E-04	3.75E-02
1.36E-03	5.10E-02	8.45E-04	3.02E-05	3.52E-04	3.52E-04	5.40E-02	1.36E-03	5.10E-02	8.45E-04	3.02E-05	2.34E-05	3.52E-04	5.36E-02
3.20E-03	1.01E-01	8.47E-04	2.92E-05	3.69E-04	3.69E-04	1.05E-01	3.20E-03	1.01E-01	8.47E-04	2.92E-05	2.26E-05	3.69E-04	1.05E-01
1.84E-02	4.11E-01	1.11E-03	3.08E-05	3.72E-04	3.72E-04	4.32E-01	1.84E-02	4.11E-01	1.11E-03	3.08E-05	2.20E-05	3.72E-04	4.31E-01
4.68E-03	1.42E-01	1.36E-03	3.60E-05	3.61E-04	3.61E-04	1.49E-01	4.68E-03	1.42E-01	1.36E-03	3.60E-05	2.56E-05	3.61E-04	1.49E-01
2.59E-03	8.49E-02	1.26E-03	4.11E-05	3.16E-04	3.16E-04	8.95E-02	2.59E-03	8.49E-02	1.26E-03	4.11E-05	3.45E-05	3.16E-04	8.92E-02
1.79E-03	5.91E-02	1.05E-03	4.16E-05	2.85E-04	2.85E-04	6.26E-02	1.79E-03	5.91E-02	1.05E-03	4.16E-05	3.75E-05	2.85E-04	6.23E-02
1.42E-03	4.72E-02	9.53E-04	3.80E-05	2.64E-04	2.64E-04	5.02E-02	1.42E-03	4.72E-02	9.53E-04	3.80E-05	3.25E-05	2.64E-04	4.99E-02
9.86E-04	2.97E-02	5.87E-04	2.52E-05	1.87E-04	1.87E-04	3.17E-02	9.86E-04	2.97E-02	5.87E-04	2.52E-05	2.07E-05	1.87E-04	3.15E-02
8.44E-04	2.51E-02	5.32E-04	2.30E-05	1.79E-04	1.79E-04	2.68E-02	8.44E-04	2.51E-02	5.32E-04	2.30E-05	1.92E-05	1.79E-04	2.67E-02
7.28E-04	2.12E-02	4.74E-04	2.00E-05	1.64E-04	1.64E-04	2.27E-02	7.28E-04	2.12E-02	4.74E-04	2.00E-05	1.70E-05	1.64E-04	2.26E-02
5.80E-04	1.52E-02	3.32E-04	1.29E-05	1.27E-04	1.27E-04	1.64E-02	5.80E-04	1.52E-02	3.32E-04	1.29E-05	1.13E-05	1.27E-04	1.63E-02
4.96E-04	1.20E-02	2.75E-04	1.01E-05	1.12E-04	1.12E-04	1.30E-02	4.96E-04	1.20E-02	2.75E-04	1.01E-05	8.85E-06	1.12E-04	1.29E-02
4.83E-04	1.20E-02	2.86E-04	1.10E-05	1.17E-04	1.17E-04	1.31E-02	4.83E-04	1.20E-02	2.86E-04	1.10E-05	9.43E-06	1.17E-04	1.30E-02
4.89E-04	1.29E-02	3.27E-04	1.33E-05	1.30E-04	1.30E-04	1.40E-02	4.89E-04	1.29E-02	3.27E-04	1.33E-05	1.17E-05	1.30E-04	1.39E-02
4.95E-04	1.35E-02	3.82E-04	1.61E-05	1.43E-04	1.43E-04	1.47E-02	4.95E-04	1.35E-02	3.82E-04	1.61E-05	1.38E-05	1.43E-04	1.45E-02
4.67E-04	1.25E-02	3.72E-04	1.54E-05	1.49E-04	1.49E-04	1.36E-02	4.67E-04	1.25E-02	3.72E-04	1.54E-05	1.29E-05	1.49E-04	1.35E-02
4.29E-04	1.10E-02	3.35E-04	1.35E-05	1.42E-04	1.42E-04	1.20E-02	4.29E-04	1.10E-02	3.35E-04	1.35E-05	1.10E-05	1.42E-04	1.19E-02
4.07E-04	1.02E-02	3.33E-04	1.29E-05	1.36E-04	1.36E-04	1.12E-02	4.07E-04	1.02E-02	3.33E-04	1.29E-05	1.03E-05	1.36E-04	1.11E-02
3.88E-04	9.53E-03	3.35E-04	1.25E-05	1.34E-04	1.34E-04	1.05E-02	3.88E-04	9.53E-03	3.35E-04	1.25E-05	9.85E-06	1.34E-04	1.04E-02
3.65E-04	8.63E-03	3.27E-04	1.17E-05	1.23E-04	1.23E-04	9.58E-03	3.65E-04	8.63E-03	3.27E-04	1.17E-05	8.97E-06	1.23E-04	9.46E-03
3.49E-04	8.05E-03	3.39E-04	1.19E-05	1.19E-04	1.19E-04	8.99E-03	3.49E-04	8.05E-03	3.39E-04	1.19E-05	8.76E-06	1.19E-04	8.88E-03
3.33E-04	7.44E-03	3.49E-04	1.21E-05	1.23E-04	1.23E-04	8.38E-03	3.33E-04	7.44E-03	3.49E-04	1.21E-05	8.99E-06	1.23E-04	8.26E-03
3.20E-04	6.91E-03	3.66E-04	1.24E-05	1.29E-04	1.29E-04	7.86E-03	3.20E-04	6.91E-03	3.66E-04	1.24E-05	9.44E-06	1.29E-04	7.74E-03
3.05E-04	6.37E-03	3.82E-04	1.25E-05	1.34E-04	1.34E-04	7.34E-03	3.05E-04	6.37E-03	3.82E-04	1.25E-05	9.54E-06	1.34E-04	7.21E-03
2.88E-04	5.74E-03	3.90E-04	1.23E-05	1.33E-04	1.33E-04	6.69E-03	2.88E-04	5.74E-03	3.90E-04	1.23E-05	9.52E-06	1.33E-04	6.57E-03
2.73E-04	5.20E-03	4.03E-04	1.23E-05	1.34E-04	1.34E-04	6.15E-03	2.73E-04	5.20E-03	4.03E-04	1.23E-05	9.70E-06	1.34E-04	6.03E-03
2.61E-04	4.74E-03	4.19E-04	1.27E-05	1.38E-04	1.38E-04	5.71E-03	2.61E-04	4.74E-03	4.19E-04	1.27E-05	9.79E-06	1.38E-04	5.58E-03
2.48E-04	4.30E-03	4.32E-04	1.31E-05	1.39E-04	1.39E-04	5.27E-03	2.48E-04	4.30E-03	4.32E-04	1.31E-05	1.00E-05	1.39E-04	5.14E-03
2.31E-04	3.73E-03	4.30E-04	1.28E-05	1.37E-04	1.37E-04	4.68E-03	2.31E-04	3.73E-03	4.30E-04	1.28E-05	9.97E-06	1.37E-04	4.55E-03
2.15E-04	3.18E-03	4.24E-04	1.24E-05	1.35E-04	1.35E-04	4.10E-03	2.15E-04	3.18E-03	4.24E-04	1.24E-05	9.87E-06	1.35E-04	3.98E-03
2.05E-04	2.82E-03	4.27E-04	1.24E-05	1.39E-04	1.39E-04	3.74E-03	2.05E-04	2.82E-03	4.27E-04	1.24E-05	1.01E-05	1.39E-04	3.61E-03
1.92E-04	2.41E-03	4.18E-04	1.21E-05	1.41E-04	1.41E-04	3.31E-03	1.92E-04	2.41E-03	4.18E-04	1.21E-05	1.02E-05	1.41E-04	3.18E-03
1.94E-04	2.49E-03	4.64E-04	1.36E-05	1.55E-04	1.55E-04	3.47E-03	1.94E-04	2.49E-03	4.64E-04	1.36E-05	1.16E-05	1.55E-04	3.33E-03
1.94E-04	2.51E-03	5.02E-04	1.50E-05	1.69E-04	1.69E-04	3.56E-03	1.94E-04	2.51E-03	5.02E-04	1.50E-05	1.29E-05	1.69E-04	3.41E-03
1.99E-04	2.67E-03	5.62E-04	1.71E-05	1.90E-04	1.90E-04	3.83E-03	1.99E-04	2.67E-03	5.62E-04	1.71E-05	1.50E-05	1.90E-04	3.65E-03
2.04E-04	2.86E-03	6.36E-04	1.98E-05	2.13E-04	2.13E-04	4.15E-03	2.04E-04	2.86E-03	6.36E-04	1.98E-05	1.76E-05	2.13E-04	3.95E-03
1.95E-04	2.57E-03	6.24E-04	1.93E-05	2.15E-04	2.15E-04	3.84E-03	1.95E-04	2.57E-03	6.24E-04	1.93E-05	1.77E-05	2.15E-04	3.64E-03
2.00E-04	2.74E-03	7.00E-04	2.21E-05	2.35E-04	2.35E-04	4.14E-03	2.00E-04	2.74E-03	7.00E-04	2.21E-05	2.04E-05	2.35E-04	3.92E-03
2.05E-04	2.87E-03	7.72E-04	2.47E-05	2.53E-04	2.53E-04	4.37E-03	2.05E-04	2.87E-03	7.72E-04	2.47E-05	2.30E-05	2.53E-04	4.14E-03
2.04E-04	2.84E-03	8.12E-04	2.61E-05	2.64E-04	2.64E-04	4.41E-03	2.04E-04	2.84E-03	8.12E-04	2.61E-05	2.45E-05	2.64E-04	4.17E-03
1.99E-04	2.69E-03	8.17E-04	2.62E-05	2.69E-04	2.69E-04	4.28E-03	1.99E-04	2.69E-03	8.17E-04	2.62E-05	2.49E-05	2.69E-04	4.03E-03

1.95E-04	2.56E-03	8.23E-04	2.62E-05	2.76E-04	2.76E-04	4.15E-03	1.95E-04	2.56E-03	8.23E-04	2.62E-05	2.51E-05	2.76E-04	3.90E-03
1.60E-04	2.53E-03	4.00E-04	1.41E-05	1.53E-04	1.53E-04	3.41E-03	1.60E-04	2.53E-03	4.00E-04	1.41E-05	1.31E-05	1.53E-04	3.27E-03
1.78E-04	3.36E-03	4.46E-04	1.55E-05	1.68E-04	1.68E-04	4.34E-03	1.78E-04	3.36E-03	4.46E-04	1.55E-05	1.38E-05	1.68E-04	4.18E-03
2.03E-04	4.64E-03	5.09E-04	1.72E-05	1.92E-04	1.92E-04	5.75E-03	2.03E-04	4.64E-03	5.09E-04	1.72E-05	1.47E-05	1.92E-04	5.58E-03
2.28E-04	5.89E-03	5.68E-04	1.85E-05	2.22E-04	2.22E-04	7.15E-03	2.28E-04	5.89E-03	5.68E-04	1.85E-05	1.53E-05	2.22E-04	6.94E-03
2.34E-04	6.33E-03	5.54E-04	1.81E-05	2.17E-04	2.17E-04	7.57E-03	2.34E-04	6.33E-03	5.54E-04	1.81E-05	1.50E-05	2.17E-04	7.37E-03
2.66E-04	7.87E-03	6.36E-04	1.97E-05	2.45E-04	2.45E-04	9.29E-03	2.66E-04	7.87E-03	6.36E-04	1.97E-05	1.63E-05	2.45E-04	9.06E-03
2.94E-04	9.22E-03	7.34E-04	2.20E-05	2.76E-04	2.76E-04	1.08E-02	2.94E-04	9.22E-03	7.34E-04	2.20E-05	1.77E-05	2.76E-04	1.06E-02
3.21E-04	1.05E-02	8.02E-04	2.37E-05	2.86E-04	2.86E-04	1.22E-02	3.21E-04	1.05E-02	8.02E-04	2.37E-05	1.91E-05	2.86E-04	1.19E-02
3.51E-04	1.19E-02	8.69E-04	2.56E-05	2.94E-04	2.94E-04	1.37E-02	3.51E-04	1.19E-02	8.69E-04	2.56E-05	2.10E-05	2.94E-04	1.34E-02
3.87E-04	1.35E-02	9.37E-04	2.77E-05	3.00E-04	3.00E-04	1.55E-02	3.87E-04	1.35E-02	9.37E-04	2.77E-05	2.32E-05	3.00E-04	1.52E-02
4.34E-04	1.57E-02	9.89E-04	2.97E-05	3.03E-04	3.03E-04	1.78E-02	4.34E-04	1.57E-02	9.89E-04	2.97E-05	2.50E-05	3.03E-04	1.75E-02
4.87E-04	1.85E-02	1.02E-03	3.17E-05	2.99E-04	2.99E-04	2.06E-02	4.87E-04	1.85E-02	1.02E-03	3.17E-05	2.63E-05	2.99E-04	2.04E-02
5.64E-04	2.21E-02	1.03E-03	3.33E-05	3.00E-04	3.00E-04	2.43E-02	5.64E-04	2.21E-02	1.03E-03	3.33E-05	2.70E-05	3.00E-04	2.40E-02
6.79E-04	2.67E-02	1.04E-03	3.46E-05	3.35E-04	3.35E-04	2.92E-02	6.79E-04	2.67E-02	1.04E-03	3.46E-05	2.72E-05	3.35E-04	2.88E-02
8.89E-04	3.47E-02	1.01E-03	3.54E-05	4.03E-04	4.03E-04	3.74E-02	8.89E-04	3.47E-02	1.01E-03	3.54E-05	2.72E-05	4.03E-04	3.71E-02
1.31E-03	4.89E-02	1.05E-03	3.58E-05	4.52E-04	4.52E-04	5.22E-02	1.31E-03	4.89E-02	1.05E-03	3.58E-05	2.67E-05	4.52E-04	5.17E-02
2.89E-03	8.88E-02	1.31E-03	3.67E-05	4.35E-04	4.35E-04	9.39E-02	2.89E-03	8.88E-02	1.31E-03	3.67E-05	2.61E-05	4.35E-04	9.35E-02
2.18E-02	5.12E-01	1.58E-03	4.19E-05	3.99E-04	3.99E-04	5.37E-01	2.18E-02	5.12E-01	1.58E-03	4.19E-05	2.95E-05	3.99E-04	5.36E-01
4.80E-03	1.48E-01	1.55E-03	4.94E-05	3.97E-04	3.97E-04	1.55E-01	4.80E-03	1.48E-01	1.55E-03	4.94E-05	3.90E-05	3.97E-04	1.55E-01
2.64E-03	8.72E-02	1.36E-03	5.14E-05	3.66E-04	3.66E-04	9.19E-02	2.64E-03	8.72E-02	1.36E-03	5.14E-05	4.44E-05	3.66E-04	9.16E-02
1.79E-03	5.99E-02	1.19E-03	4.65E-05	3.11E-04	3.11E-04	6.36E-02	1.79E-03	5.99E-02	1.19E-03	4.65E-05	3.76E-05	3.11E-04	6.33E-02
1.29E-03	4.23E-02	9.50E-04	3.83E-05	2.64E-04	2.64E-04	4.51E-02	1.29E-03	4.23E-02	9.50E-04	3.83E-05	3.06E-05	2.64E-04	4.48E-02
9.51E-04	2.94E-02	6.84E-04	2.97E-05	2.14E-04	2.14E-04	3.15E-02	9.51E-04	2.94E-02	6.84E-04	2.97E-05	2.46E-05	2.14E-04	3.13E-02
7.69E-04	2.29E-02	5.37E-04	2.30E-05	1.80E-04	1.80E-04	2.46E-02	7.69E-04	2.29E-02	5.37E-04	2.30E-05	1.95E-05	1.80E-04	2.45E-02
6.31E-04	1.77E-02	4.17E-04	1.72E-05	1.49E-04	1.49E-04	1.90E-02	6.31E-04	1.77E-02	4.17E-04	1.72E-05	1.45E-05	1.49E-04	1.89E-02
5.74E-04	1.60E-02	4.03E-04	1.67E-05	1.46E-04	1.46E-04	1.73E-02	5.74E-04	1.60E-02	4.03E-04	1.67E-05	1.35E-05	1.46E-04	1.71E-02
5.65E-04	1.64E-02	4.50E-04	1.94E-05	1.62E-04	1.62E-04	1.77E-02	5.65E-04	1.64E-02	4.50E-04	1.94E-05	1.62E-05	1.62E-04	1.76E-02
5.28E-04	1.52E-02	4.38E-04	1.89E-05	1.58E-04	1.58E-04	1.65E-02	5.28E-04	1.52E-02	4.38E-04	1.89E-05	1.63E-05	1.58E-04	1.63E-02
5.03E-04	1.44E-02	4.60E-04	1.97E-05	1.68E-04	1.68E-04	1.57E-02	5.03E-04	1.44E-02	4.60E-04	1.97E-05	1.58E-05	1.68E-04	1.55E-02
4.54E-04	1.23E-02	4.08E-04	1.64E-05	1.60E-04	1.60E-04	1.35E-02	4.54E-04	1.23E-02	4.08E-04	1.64E-05	1.32E-05	1.60E-04	1.34E-02
4.37E-04	1.18E-02	4.30E-04	1.69E-05	1.62E-04	1.62E-04	1.30E-02	4.37E-04	1.18E-02	4.30E-04	1.69E-05	1.29E-05	1.62E-04	1.28E-02
4.13E-04	1.08E-02	4.31E-04	1.62E-05	1.58E-04	1.58E-04	1.20E-02	4.13E-04	1.08E-02	4.31E-04	1.62E-05	1.22E-05	1.58E-04	1.19E-02
3.86E-04	9.70E-03	4.22E-04	1.55E-05	1.44E-04	1.44E-04	1.08E-02	3.86E-04	9.70E-03	4.22E-04	1.55E-05	1.09E-05	1.44E-04	1.07E-02
3.67E-04	8.92E-03	4.39E-04	1.57E-05	1.40E-04	1.40E-04	1.00E-02	3.67E-04	8.92E-03	4.39E-04	1.57E-05	1.08E-05	1.40E-04	9.89E-03
3.50E-04	8.24E-03	4.64E-04	1.61E-05	1.46E-04	1.46E-04	9.36E-03	3.50E-04	8.24E-03	4.64E-04	1.61E-05	1.16E-05	1.46E-04	9.22E-03
3.33E-04	7.54E-03	4.86E-04	1.63E-05	1.52E-04	1.52E-04	8.68E-03	3.33E-04	7.54E-03	4.86E-04	1.63E-05	1.18E-05	1.52E-04	8.54E-03
3.19E-04	6.92E-03	5.14E-04	1.66E-05	1.58E-04	1.58E-04	8.09E-03	3.19E-04	6.92E-03	5.14E-04	1.66E-05	1.20E-05	1.58E-04	7.94E-03
3.02E-04	6.28E-03	5.34E-04	1.68E-05	1.59E-04	1.59E-04	7.45E-03	3.02E-04	6.28E-03	5.34E-04	1.68E-05	1.22E-05	1.59E-04	7.30E-03
2.89E-04	5.75E-03	5.61E-04	1.75E-05	1.64E-04	1.64E-04	6.95E-03	2.89E-04	5.75E-03	5.61E-04	1.75E-05	1.25E-05	1.64E-04	6.80E-03
2.76E-04	5.24E-03	5.80E-04	1.81E-05	1.69E-04	1.69E-04	6.45E-03	2.76E-04	5.24E-03	5.80E-04	1.81E-05	1.30E-05	1.69E-04	6.29E-03
2.60E-04	4.66E-03	5.86E-04	1.81E-05	1.68E-04	1.68E-04	5.86E-03	2.60E-04	4.66E-03	5.86E-04	1.81E-05	1.33E-05	1.68E-04	5.70E-03
2.44E-04	4.09E-03	5.85E-04	1.78E-05	1.68E-04	1.68E-04	5.27E-03	2.44E-04	4.09E-03	5.85E-04	1.78E-05	1.35E-05	1.68E-04	5.12E-03
2.30E-04	3.60E-03	5.82E-04	1.76E-05	1.70E-04	1.70E-04	4.77E-03	2.30E-04	3.60E-03	5.82E-04	1.76E-05	1.36E-05	1.70E-04	4.61E-03
2.19E-04	3.23E-03	5.87E-04	1.77E-05	1.76E-04	1.76E-04	4.41E-03	2.19E-04	3.23E-03	5.87E-04	1.77E-05	1.41E-05	1.76E-04	4.24E-03
2.12E-04	3.00E-03	6.02E-04	1.82E-05	1.86E-04	1.86E-04	4.20E-03	2.12E-04	3.00E-03	6.02E-04	1.82E-05	1.50E-05	1.86E-04	4.03E-03
2.14E-04	3.07E-03	6.64E-04	2.04E-05	2.05E-04	2.05E-04	4.38E-03	2.14E-04	3.07E-03	6.64E-04	2.04E-05	1.72E-05	2.05E-04	4.19E-03
2.11E-04	2.98E-03	6.98E-04	2.17E-05	2.20E-04	2.20E-04	4.35E-03	2.11E-04	2.98E-03	6.98E-04	2.17E-05	1.88E-05	2.20E-04	4.15E-03
2.14E-04	3.08E-03	7.68E-04	2.43E-05	2.43E-04	2.43E-04	4.57E-03	2.14E-04	3.08E-03	7.68E-04	2.43E-05	2.14E-05	2.43E-04	4.35E-03
2.18E-04	3.18E-03	8.45E-04	2.71E-05	2.67E-04	2.67E-04	4.81E-03	2.18E-04	3.18E-03	8.45E-04	2.71E-05	2.44E-05	2.67E-04	4.56E-03
2.14E-04	3.05E-03	8.68E-04	2.79E-05	2.76E-04	2.76E-04	4.71E-03	2.14E-04	3.05E-03	8.68E-04	2.79E-05	2.56E-05	2.76E-04	4.46E-03
2.13E-04	3.02E-03	9.15E-04	2.95E-05	2.88E-04	2.88E-04	4.76E-03	2.13E-04	3.02E-03	9.15E-04	2.95E-05	2.75E-05	2.88E-04	4.50E-03
2.16E-04	3.08E-03	9.87E-04	3.22E-05	3.07E-04	3.07E-04	4.93E-03	2.16E-04	3.08E-03	9.87E-04	3.22E-05	3.01E-05	3.07E-04	4.65E-03
2.11E-04	2.95E-03	9.99E-04	3.25E-05	3.15E-04	3.15E-04	4.82E-03	2.11E-04	2.95E-03	9.99E-04	3.25E-05	3.07E-05	3.15E-04	4.54E-03

2.05E-04	2.78E-03	9.91E-04	3.21E-05	3.20E-04	3.20E-04	4.64E-03	2.05E-04	2.78E-03	9.91E-04	3.21E-05	3.06E-05	3.20E-04	4.35E-03
1.99E-04	2.61E-03	9.81E-04	3.16E-05	3.24E-04	3.24E-04	4.47E-03	1.99E-04	2.61E-03	9.81E-04	3.16E-05	3.03E-05	3.24E-04	4.18E-03
1.56E-04	2.47E-03	4.42E-04	1.50E-05	1.63E-04	1.63E-04	3.41E-03	1.56E-04	2.47E-03	4.42E-04	1.50E-05	1.47E-05	1.63E-04	3.26E-03
1.81E-04	3.61E-03	5.38E-04	1.79E-05	1.93E-04	1.93E-04	4.74E-03	1.81E-04	3.61E-03	5.38E-04	1.79E-05	1.73E-05	1.93E-04	4.56E-03
1.87E-04	4.00E-03	5.50E-04	1.85E-05	1.98E-04	1.98E-04	5.15E-03	1.87E-04	4.00E-03	5.50E-04	1.85E-05	1.75E-05	1.98E-04	4.97E-03
1.95E-04	4.46E-03	5.65E-04	1.92E-05	2.03E-04	2.03E-04	5.65E-03	1.95E-04	4.46E-03	5.65E-04	1.92E-05	1.74E-05	2.03E-04	5.46E-03
1.88E-04	4.22E-03	5.21E-04	1.83E-05	1.90E-04	1.90E-04	5.33E-03	1.88E-04	4.22E-03	5.21E-04	1.83E-05	1.60E-05	1.90E-04	5.16E-03
2.01E-04	5.03E-03	5.53E-04	1.92E-05	2.04E-04	2.04E-04	6.21E-03	2.01E-04	5.03E-03	5.53E-04	1.92E-05	1.62E-05	2.04E-04	6.02E-03
2.39E-04	6.94E-03	6.62E-04	2.17E-05	2.47E-04	2.47E-04	8.36E-03	2.39E-04	6.94E-03	6.62E-04	2.17E-05	1.78E-05	2.47E-04	8.13E-03
2.73E-04	8.45E-03	7.66E-04	2.37E-05	2.83E-04	2.83E-04	1.01E-02	2.73E-04	8.45E-03	7.66E-04	2.37E-05	1.92E-05	2.83E-04	9.82E-03
2.99E-04	9.62E-03	8.62E-04	2.60E-05	3.08E-04	3.08E-04	1.14E-02	2.99E-04	9.62E-03	8.62E-04	2.60E-05	2.05E-05	3.08E-04	1.11E-02
3.24E-04	1.08E-02	9.44E-04	2.80E-05	3.21E-04	3.21E-04	1.27E-02	3.24E-04	1.08E-02	9.44E-04	2.80E-05	2.22E-05	3.21E-04	1.24E-02
3.55E-04	1.22E-02	1.03E-03	3.03E-05	3.30E-04	3.30E-04	1.43E-02	3.55E-04	1.22E-02	1.03E-03	3.03E-05	2.46E-05	3.30E-04	1.40E-02
3.89E-04	1.39E-02	1.10E-03	3.25E-05	3.26E-04	3.26E-04	1.61E-02	3.89E-04	1.39E-02	1.10E-03	3.25E-05	2.74E-05	3.26E-04	1.58E-02
4.29E-04	1.59E-02	1.19E-03	3.57E-05	3.40E-04	3.40E-04	1.83E-02	4.29E-04	1.59E-02	1.19E-03	3.57E-05	2.96E-05	3.40E-04	1.80E-02
4.85E-04	1.86E-02	1.22E-03	3.83E-05	3.42E-04	3.42E-04	2.10E-02	4.85E-04	1.86E-02	1.22E-03	3.83E-05	3.12E-05	3.42E-04	2.07E-02
5.62E-04	2.20E-02	1.24E-03	4.03E-05	3.73E-04	3.73E-04	2.46E-02	5.62E-04	2.20E-02	1.24E-03	4.03E-05	3.19E-05	3.73E-04	2.43E-02
6.79E-04	2.68E-02	1.23E-03	4.19E-05	4.57E-04	4.57E-04	2.96E-02	6.79E-04	2.68E-02	1.23E-03	4.19E-05	3.20E-05	4.57E-04	2.92E-02
8.77E-04	3.44E-02	1.25E-03	4.26E-05	5.09E-04	5.09E-04	3.76E-02	8.77E-04	3.44E-02	1.25E-03	4.26E-05	3.17E-05	5.09E-04	3.71E-02
1.29E-03	4.81E-02	1.56E-03	4.38E-05	5.02E-04	5.02E-04	5.20E-02	1.29E-03	4.81E-02	1.56E-03	4.38E-05	3.08E-05	5.02E-04	5.15E-02
2.79E-03	8.63E-02	1.90E-03	4.99E-05	4.80E-04	4.80E-04	9.20E-02	2.79E-03	8.63E-02	1.90E-03	4.99E-05	3.38E-05	4.80E-04	9.15E-02
2.47E-02	4.27E-01	1.86E-03	5.88E-05	4.71E-04	4.71E-04	4.54E-01	2.47E-02	4.27E-01	1.86E-03	5.88E-05	4.54E-05	4.71E-04	4.54E-01
4.49E-03	1.39E-01	1.68E-03	6.19E-05	4.22E-04	4.22E-04	1.46E-01	4.49E-03	1.39E-01	1.68E-03	6.19E-05	5.11E-05	4.22E-04	1.45E-01
2.17E-03	7.11E-02	1.38E-03	5.50E-05	3.55E-04	3.55E-04	7.54E-02	2.17E-03	7.11E-02	1.38E-03	5.50E-05	4.35E-05	3.55E-04	7.51E-02
1.42E-03	4.70E-02	1.17E-03	4.75E-05	3.10E-04	3.10E-04	5.02E-02	1.42E-03	4.70E-02	1.17E-03	4.75E-05	3.72E-05	3.10E-04	5.00E-02
9.80E-04	3.14E-02	8.40E-04	3.69E-05	2.48E-04	2.48E-04	3.37E-02	9.80E-04	3.14E-02	8.40E-04	3.69E-05	3.08E-05	2.48E-04	3.35E-02
7.50E-04	2.27E-02	6.01E-04	2.62E-05	1.90E-04	1.90E-04	2.44E-02	7.50E-04	2.27E-02	6.01E-04	2.62E-05	2.13E-05	1.90E-04	2.43E-02
6.41E-04	1.89E-02	5.23E-04	2.28E-05	1.73E-04	1.73E-04	2.05E-02	6.41E-04	1.89E-02	5.23E-04	2.28E-05	1.81E-05	1.73E-04	2.03E-02
6.37E-04	1.98E-02	6.27E-04	2.86E-05	2.09E-04	2.09E-04	2.15E-02	6.37E-04	1.98E-02	6.27E-04	2.86E-05	2.29E-05	2.09E-04	2.14E-02
5.30E-04	1.54E-02	4.76E-04	1.98E-05	1.65E-04	1.65E-04	1.67E-02	5.30E-04	1.54E-02	4.76E-04	1.98E-05	1.67E-05	1.65E-04	1.66E-02
5.42E-04	1.63E-02	5.96E-04	2.65E-05	1.95E-04	1.95E-04	1.79E-02	5.42E-04	1.63E-02	5.96E-04	2.65E-05	2.06E-05	1.95E-04	1.77E-02
4.81E-04	1.38E-02	5.26E-04	2.14E-05	1.86E-04	1.86E-04	1.52E-02	4.81E-04	1.38E-02	5.26E-04	2.14E-05	1.66E-05	1.86E-04	1.50E-02
4.66E-04	1.32E-02	5.78E-04	2.33E-05	1.96E-04	1.96E-04	1.47E-02	4.66E-04	1.32E-02	5.78E-04	2.33E-05	1.65E-05	1.96E-04	1.45E-02
4.34E-04	1.18E-02	5.75E-04	2.21E-05	1.89E-04	1.89E-04	1.33E-02	4.34E-04	1.18E-02	5.75E-04	2.21E-05	1.53E-05	1.89E-04	1.31E-02
3.90E-04	9.99E-03	5.29E-04	1.90E-05	1.63E-04	1.63E-04	1.13E-02	3.90E-04	9.99E-03	5.29E-04	1.90E-05	1.25E-05	1.63E-04	1.11E-02
3.81E-04	9.60E-03	6.03E-04	2.13E-05	1.66E-04	1.66E-04	1.09E-02	3.81E-04	9.60E-03	6.03E-04	2.13E-05	1.40E-05	1.66E-04	1.08E-02
3.65E-04	8.89E-03	6.48E-04	2.21E-05	1.77E-04	1.77E-04	1.03E-02	3.65E-04	8.89E-03	6.48E-04	2.21E-05	1.50E-05	1.77E-04	1.01E-02
3.47E-04	8.09E-03	6.83E-04	2.25E-05	1.86E-04	1.86E-04	9.52E-03	3.47E-04	8.09E-03	6.83E-04	2.25E-05	1.51E-05	1.86E-04	9.35E-03
3.31E-04	7.38E-03	7.19E-04	2.32E-05	1.92E-04	1.92E-04	8.84E-03	3.31E-04	7.38E-03	7.19E-04	2.32E-05	1.54E-05	1.92E-04	8.66E-03
3.14E-04	6.69E-03	7.49E-04	2.39E-05	1.95E-04	1.95E-04	8.17E-03	3.14E-04	6.69E-03	7.49E-04	2.39E-05	1.59E-05	1.95E-04	7.99E-03
3.00E-04	6.10E-03	7.78E-04	2.48E-05	2.03E-04	2.03E-04	7.60E-03	3.00E-04	6.10E-03	7.78E-04	2.48E-05	1.67E-05	2.03E-04	7.42E-03
2.85E-04	5.52E-03	7.99E-04	2.53E-05	2.08E-04	2.08E-04	7.04E-03	2.85E-04	5.52E-03	7.99E-04	2.53E-05	1.77E-05	2.08E-04	6.85E-03
2.70E-04	4.89E-03	7.97E-04	2.50E-05	2.08E-04	2.08E-04	6.40E-03	2.70E-04	4.89E-03	7.97E-04	2.50E-05	1.82E-05	2.08E-04	6.21E-03
2.56E-04	4.37E-03	8.00E-04	2.50E-05	2.11E-04	2.11E-04	5.87E-03	2.56E-04	4.37E-03	8.00E-04	2.50E-05	1.86E-05	2.11E-04	5.68E-03
2.45E-04	3.98E-03	8.10E-04	2.54E-05	2.19E-04	2.19E-04	5.49E-03	2.45E-04	3.98E-03	8.10E-04	2.54E-05	1.95E-05	2.19E-04	5.30E-03
2.33E-04	3.56E-03	8.02E-04	2.51E-05	2.26E-04	2.26E-04	5.07E-03	2.33E-04	3.56E-03	8.02E-04	2.51E-05	2.01E-05	2.26E-04	4.87E-03
2.14E-04	2.92E-03	7.43E-04	2.28E-05	2.24E-04	2.24E-04	4.34E-03	2.14E-04	2.92E-03	7.43E-04	2.28E-05	1.93E-05	2.24E-04	4.14E-03
2.16E-04	2.99E-03	8.10E-04	2.53E-05	2.46E-04	2.46E-04	4.53E-03	2.16E-04	2.99E-03	8.10E-04	2.53E-05	2.19E-05	2.46E-04	4.30E-03
2.26E-04	3.33E-03	9.47E-04	3.04E-05	2.83E-04	2.83E-04	5.10E-03	2.26E-04	3.33E-03	9.47E-04	3.04E-05	2.68E-05	2.83E-04	4.84E-03
2.24E-04	3.23E-03	9.86E-04	3.19E-05	3.01E-04	3.01E-04	5.08E-03	2.24E-04	3.23E-03	9.86E-04	3.19E-05	2.87E-05	3.01E-04	4.80E-03
2.32E-04	3.48E-03	1.13E-03	3.71E-05	3.38E-04	3.38E-04	5.55E-03	2.32E-04	3.48E-03	1.13E-03	3.71E-05	3.39E-05	3.38E-04	5.24E-03
2.31E-04	3.43E-03	1.18E-03	3.92E-05	3.52E-04	3.52E-04	5.59E-03	2.31E-04	3.43E-03	1.18E-03	3.92E-05	3.62E-05	3.52E-04	5.27E-03
2.28E-04	3.32E-03	1.21E-03	4.02E-05	3.62E-04	3.62E-04	5.52E-03	2.28E-04	3.32E-03	1.21E-03	4.02E-05	3.75E-05	3.62E-04	5.20E-03
2.23E-04	3.17E-03	1.22E-03	4.05E-05	3.71E-04	3.71E-04	5.40E-03	2.23E-04	3.17E-03	1.22E-03	4.05E-05	3.81E-05	3.71E-04	5.07E-03

2.19E-04	3.02E-03	1.23E-03	4.05E-05	3.79E-04	3.79E-04	5.27E-03	2.19E-04	3.02E-03	1.23E-03	4.05E-05	3.83E-05	3.79E-04	4.93E-03
2.13E-04	2.85E-03	1.21E-03	3.97E-05	3.83E-04	3.83E-04	5.08E-03	2.13E-04	2.85E-03	1.21E-03	3.97E-05	3.80E-05	3.83E-04	4.73E-03
2.03E-04	2.61E-03	1.15E-03	3.75E-05	3.78E-04	3.78E-04	4.76E-03	2.03E-04	2.61E-03	1.15E-03	3.75E-05	3.63E-05	3.78E-04	4.41E-03
1.52E-04	2.51E-03	5.00E-04	1.67E-05	1.78E-04	1.78E-04	3.53E-03	1.52E-04	2.51E-03	5.00E-04	1.67E-05	1.53E-05	1.78E-04	3.37E-03
1.53E-04	2.52E-03	4.86E-04	1.65E-05	1.75E-04	1.75E-04	3.53E-03	1.53E-04	2.52E-03	4.86E-04	1.65E-05	1.54E-05	1.75E-04	3.37E-03
1.67E-04	3.18E-03	5.46E-04	1.84E-05	1.92E-04	1.92E-04	4.29E-03	1.67E-04	3.18E-03	5.46E-04	1.84E-05	1.74E-05	1.92E-04	4.12E-03
1.80E-04	3.85E-03	5.98E-04	2.01E-05	2.09E-04	2.09E-04	5.06E-03	1.80E-04	3.85E-03	5.98E-04	2.01E-05	1.91E-05	2.09E-04	4.87E-03
1.75E-04	3.70E-03	5.63E-04	1.94E-05	2.01E-04	2.01E-04	4.86E-03	1.75E-04	3.70E-03	5.63E-04	1.94E-05	1.86E-05	2.01E-04	4.68E-03
1.80E-04	4.02E-03	5.81E-04	2.02E-05	2.05E-04	2.05E-04	5.21E-03	1.80E-04	4.02E-03	5.81E-04	2.02E-05	1.89E-05	2.05E-04	5.02E-03
2.04E-04	5.26E-03	6.78E-04	2.32E-05	2.35E-04	2.35E-04	6.63E-03	2.04E-04	5.26E-03	6.78E-04	2.32E-05	2.06E-05	2.35E-04	6.42E-03
2.32E-04	6.59E-03	7.79E-04	2.57E-05	2.74E-04	2.74E-04	8.17E-03	2.32E-04	6.59E-03	7.79E-04	2.57E-05	2.17E-05	2.74E-04	7.92E-03
2.53E-04	7.63E-03	8.48E-04	2.73E-05	3.02E-04	3.02E-04	9.36E-03	2.53E-04	7.63E-03	8.48E-04	2.73E-05	2.22E-05	3.02E-04	9.08E-03
2.75E-04	8.55E-03	9.15E-04	2.86E-05	3.16E-04	3.16E-04	1.04E-02	2.75E-04	8.55E-03	9.15E-04	2.86E-05	2.27E-05	3.16E-04	1.01E-02
2.88E-04	9.01E-03	9.46E-04	2.91E-05	3.02E-04	3.02E-04	1.09E-02	2.88E-04	9.01E-03	9.46E-04	2.91E-05	2.32E-05	3.02E-04	1.06E-02
3.18E-04	1.04E-02	1.07E-03	3.19E-05	3.27E-04	3.27E-04	1.25E-02	3.18E-04	1.04E-02	1.07E-03	3.19E-05	2.56E-05	3.27E-04	1.22E-02
3.48E-04	1.20E-02	1.20E-03	3.54E-05	3.47E-04	3.47E-04	1.43E-02	3.48E-04	1.20E-02	1.20E-03	3.54E-05	2.91E-05	3.47E-04	1.40E-02
3.82E-04	1.37E-02	1.31E-03	3.91E-05	3.53E-04	3.53E-04	1.62E-02	3.82E-04	1.37E-02	1.31E-03	3.91E-05	3.28E-05	3.53E-04	1.58E-02
4.16E-04	1.54E-02	1.36E-03	4.23E-05	3.45E-04	3.45E-04	1.79E-02	4.16E-04	1.54E-02	1.36E-03	4.23E-05	3.59E-05	3.45E-04	1.76E-02
4.79E-04	1.84E-02	1.45E-03	4.66E-05	3.88E-04	3.88E-04	2.11E-02	4.79E-04	1.84E-02	1.45E-03	4.66E-05	3.77E-05	3.88E-04	2.08E-02
5.65E-04	2.21E-02	1.51E-03	5.02E-05	5.07E-04	5.07E-04	2.52E-02	5.65E-04	2.21E-02	1.51E-03	5.02E-05	3.84E-05	5.07E-04	2.48E-02
6.86E-04	2.67E-02	1.58E-03	5.19E-05	5.87E-04	5.87E-04	3.02E-02	6.86E-04	2.67E-02	1.58E-03	5.19E-05	3.82E-05	5.87E-04	2.97E-02
8.96E-04	3.48E-02	1.90E-03	5.34E-05	5.72E-04	5.72E-04	3.88E-02	8.96E-04	3.48E-02	1.90E-03	5.34E-05	3.73E-05	5.72E-04	3.83E-02
1.40E-03	5.07E-02	2.29E-03	6.05E-05	5.55E-04	5.55E-04	5.55E-02	1.40E-03	5.07E-02	2.29E-03	6.05E-05	3.96E-05	5.55E-04	5.50E-02
6.28E-03	1.23E-01	2.27E-03	7.13E-05	5.45E-04	5.45E-04	1.33E-01	6.28E-03	1.23E-01	2.27E-03	7.13E-05	5.36E-05	5.45E-04	1.32E-01
4.32E-03	1.36E-01	2.00E-03	7.57E-05	4.72E-04	4.72E-04	1.43E-01	4.32E-03	1.36E-01	2.00E-03	7.57E-05	6.09E-05	4.72E-04	1.43E-01
1.72E-03	5.34E-02	1.42E-03	6.08E-05	3.46E-04	3.46E-04	5.73E-02	1.72E-03	5.34E-02	1.42E-03	6.08E-05	4.78E-05	3.46E-04	5.70E-02
1.07E-03	3.24E-02	9.30E-04	4.21E-05	2.65E-04	2.65E-04	3.50E-02	1.07E-03	3.24E-02	9.30E-04	4.21E-05	3.37E-05	2.65E-04	3.48E-02
8.92E-04	2.85E-02	9.26E-04	4.23E-05	2.62E-04	2.62E-04	3.09E-02	8.92E-04	2.85E-02	9.26E-04	4.23E-05	3.37E-05	2.62E-04	3.07E-02
7.49E-04	2.38E-02	8.06E-04	3.84E-05	2.35E-04	2.35E-04	2.59E-02	7.49E-04	2.38E-02	8.06E-04	3.84E-05	2.96E-05	2.35E-04	2.57E-02
6.98E-04	2.26E-02	8.68E-04	4.06E-05	2.55E-04	2.55E-04	2.47E-02	6.98E-04	2.26E-02	8.68E-04	4.06E-05	3.14E-05	2.55E-04	2.44E-02
6.14E-04	1.92E-02	7.78E-04	3.48E-05	2.32E-04	2.32E-04	2.11E-02	6.14E-04	1.92E-02	7.78E-04	3.48E-05	2.78E-05	2.32E-04	2.09E-02
5.71E-04	1.76E-02	8.06E-04	3.56E-05	2.30E-04	2.30E-04	1.95E-02	5.71E-04	1.76E-02	8.06E-04	3.56E-05	2.64E-05	2.30E-04	1.93E-02
5.33E-04	1.60E-02	8.34E-04	3.56E-05	2.42E-04	2.42E-04	1.79E-02	5.33E-04	1.60E-02	8.34E-04	3.56E-05	2.56E-05	2.42E-04	1.77E-02
4.79E-04	1.37E-02	7.74E-04	3.10E-05	2.29E-04	2.29E-04	1.55E-02	4.79E-04	1.37E-02	7.74E-04	3.10E-05	2.02E-05	2.29E-04	1.53E-02
4.48E-04	1.24E-02	8.06E-04	3.08E-05	2.26E-04	2.26E-04	1.41E-02	4.48E-04	1.24E-02	8.06E-04	3.08E-05	1.90E-05	2.26E-04	1.39E-02
4.21E-04	1.11E-02	8.38E-04	3.05E-05	2.12E-04	2.12E-04	1.29E-02	4.21E-04	1.11E-02	8.38E-04	3.05E-05	1.83E-05	2.12E-04	1.27E-02
3.81E-04	9.40E-03	8.01E-04	2.67E-05	1.94E-04	1.94E-04	1.10E-02	3.81E-04	9.40E-03	8.01E-04	2.67E-05	1.65E-05	1.94E-04	1.08E-02
3.64E-04	8.58E-03	8.59E-04	2.78E-05	2.07E-04	2.07E-04	1.02E-02	3.64E-04	8.58E-03	8.59E-04	2.78E-05	1.73E-05	2.07E-04	1.01E-02
3.40E-04	7.54E-03	8.73E-04	2.77E-05	2.13E-04	2.13E-04	9.21E-03	3.40E-04	7.54E-03	8.73E-04	2.77E-05	1.68E-05	2.13E-04	9.01E-03
3.19E-04	6.68E-03	8.92E-04	2.80E-05	2.17E-04	2.17E-04	8.35E-03	3.19E-04	6.68E-03	8.92E-04	2.80E-05	1.72E-05	2.17E-04	8.15E-03
3.02E-04	6.04E-03	9.24E-04	2.89E-05	2.23E-04	2.23E-04	7.74E-03	3.02E-04	6.04E-03	9.24E-04	2.89E-05	1.85E-05	2.23E-04	7.54E-03
2.92E-04	5.61E-03	9.75E-04	3.07E-05	2.37E-04	2.37E-04	7.38E-03	2.92E-04	5.61E-03	9.75E-04	3.07E-05	2.07E-05	2.37E-04	7.16E-03
2.83E-04	5.26E-03	1.03E-03	3.28E-05	2.51E-04	2.51E-04	7.11E-03	2.83E-04	5.26E-03	1.03E-03	3.28E-05	2.29E-05	2.51E-04	6.88E-03
2.77E-04	4.99E-03	1.09E-03	3.51E-05	2.64E-04	2.64E-04	6.92E-03	2.77E-04	4.99E-03	1.09E-03	3.51E-05	2.53E-05	2.64E-04	6.68E-03
2.70E-04	4.69E-03	1.13E-03	3.66E-05	2.78E-04	2.78E-04	6.68E-03	2.70E-04	4.69E-03	1.13E-03	3.66E-05	2.74E-05	2.78E-04	6.43E-03
2.57E-04	4.22E-03	1.11E-03	3.58E-05	2.84E-04	2.84E-04	6.19E-03	2.57E-04	4.22E-03	1.11E-03	3.58E-05	2.83E-05	2.84E-04	5.94E-03
2.31E-04	3.37E-03	9.87E-04	3.12E-05	2.73E-04	2.73E-04	5.16E-03	2.31E-04	3.37E-03	9.87E-04	3.12E-05	2.60E-05	2.73E-04	4.92E-03
2.44E-04	3.74E-03	1.16E-03	3.77E-05	3.18E-04	3.18E-04	5.82E-03	2.44E-04	3.74E-03	1.16E-03	3.77E-05	3.22E-05	3.18E-04	5.53E-03
2.56E-04	4.06E-03	1.35E-03	4.51E-05	3.71E-04	3.71E-04	6.45E-03	2.56E-04	4.06E-03	1.35E-03	4.51E-05	3.93E-05	3.71E-04	6.12E-03
2.45E-04	3.71E-03	1.31E-03	4.38E-05	3.76E-04	3.76E-04	6.07E-03	2.45E-04	3.71E-03	1.31E-03	4.38E-05	3.93E-05	3.76E-04	5.73E-03
2.49E-04	3.80E-03	1.44E-03	4.85E-05	4.09E-04	4.09E-04	6.35E-03	2.49E-04	3.80E-03	1.44E-03	4.85E-05	4.41E-05	4.09E-04	5.99E-03
2.48E-04	3.75E-03	1.52E-03	5.13E-05	4.29E-04	4.29E-04	6.43E-03	2.48E-04	3.75E-03	1.52E-03	5.13E-05	4.71E-05	4.29E-04	6.04E-03
2.46E-04	3.65E-03	1.56E-03	5.29E-05	4.44E-04	4.44E-04	6.40E-03	2.46E-04	3.65E-03	1.56E-03	5.29E-05	4.90E-05	4.44E-04	6.01E-03
2.40E-04	3.45E-03	1.54E-03	5.21E-05	4.48E-04	4.48E-04	6.19E-03	2.40E-04	3.45E-03	1.54E-03	5.21E-05	4.89E-05	4.48E-04	5.79E-03

2.33E-04	3.25E-03	1.51E-03	5.08E-05	4.51E-04	4.51E-04	5.95E-03	2.33E-04	3.25E-03	1.51E-03	5.08E-05	4.83E-05	4.51E-04	5.55E-03
2.26E-04	3.05E-03	1.47E-03	4.91E-05	4.52E-04	4.52E-04	5.70E-03	2.26E-04	3.05E-03	1.47E-03	4.91E-05	4.73E-05	4.52E-04	5.29E-03
2.15E-04	2.77E-03	1.38E-03	4.56E-05	4.42E-04	4.42E-04	5.29E-03	2.15E-04	2.77E-03	1.38E-03	4.56E-05	4.46E-05	4.42E-04	4.89E-03
2.05E-04	2.52E-03	1.30E-03	4.25E-05	4.33E-04	4.33E-04	4.93E-03	2.05E-04	2.52E-03	1.30E-03	4.25E-05	4.19E-05	4.33E-04	4.54E-03
1.33E-04	1.94E-03	4.60E-04	1.56E-05	1.72E-04	1.72E-04	2.89E-03	1.33E-04	1.94E-03	4.60E-04	1.56E-05	1.40E-05	1.72E-04	2.73E-03
1.45E-04	2.41E-03	5.25E-04	1.78E-05	1.87E-04	1.87E-04	3.47E-03	1.45E-04	2.41E-03	5.25E-04	1.78E-05	1.58E-05	1.87E-04	3.30E-03
1.53E-04	2.78E-03	5.73E-04	1.93E-05	1.98E-04	1.98E-04	3.92E-03	1.53E-04	2.78E-03	5.73E-04	1.93E-05	1.73E-05	1.98E-04	3.74E-03
1.62E-04	3.17E-03	6.11E-04	2.07E-05	2.07E-04	2.07E-04	4.37E-03	1.62E-04	3.17E-03	6.11E-04	2.07E-05	1.86E-05	2.07E-04	4.18E-03
1.68E-04	3.45E-03	6.31E-04	2.16E-05	2.14E-04	2.14E-04	4.70E-03	1.68E-04	3.45E-03	6.31E-04	2.16E-05	1.96E-05	2.14E-04	4.51E-03
1.72E-04	3.65E-03	6.40E-04	2.21E-05	2.19E-04	2.19E-04	4.92E-03	1.72E-04	3.65E-03	6.40E-04	2.21E-05	2.04E-05	2.19E-04	4.72E-03
1.76E-04	3.88E-03	6.59E-04	2.29E-05	2.26E-04	2.26E-04	5.20E-03	1.76E-04	3.88E-03	6.59E-04	2.29E-05	2.14E-05	2.26E-04	4.99E-03
2.09E-04	5.46E-03	8.44E-04	2.77E-05	2.79E-04	2.79E-04	7.10E-03	2.09E-04	5.46E-03	8.44E-04	2.77E-05	2.54E-05	2.79E-04	6.85E-03
2.17E-04	5.88E-03	8.77E-04	2.89E-05	2.89E-04	2.89E-04	7.59E-03	2.17E-04	5.88E-03	8.77E-04	2.89E-05	2.60E-05	2.89E-04	7.32E-03
2.26E-04	6.26E-03	8.99E-04	3.01E-05	2.97E-04	2.97E-04	8.01E-03	2.26E-04	6.26E-03	8.99E-04	3.01E-05	2.60E-05	2.97E-04	7.74E-03
2.33E-04	6.40E-03	8.99E-04	3.08E-05	2.92E-04	2.92E-04	8.15E-03	2.33E-04	6.40E-03	8.99E-04	3.08E-05	2.54E-05	2.92E-04	7.88E-03
2.54E-04	7.18E-03	9.75E-04	3.26E-05	3.02E-04	3.02E-04	9.04E-03	2.54E-04	7.18E-03	9.75E-04	3.26E-05	2.60E-05	3.02E-04	8.76E-03
2.65E-04	7.65E-03	1.03E-03	3.38E-05	3.03E-04	3.03E-04	9.59E-03	2.65E-04	7.65E-03	1.03E-03	3.38E-05	2.66E-05	3.03E-04	9.31E-03
2.51E-04	6.49E-03	9.39E-04	3.17E-05	2.71E-04	2.71E-04	8.25E-03	2.51E-04	6.49E-03	9.39E-04	3.17E-05	2.59E-05	2.71E-04	8.01E-03
2.48E-04	5.86E-03	8.90E-04	3.12E-05	2.58E-04	2.58E-04	7.55E-03	2.48E-04	5.86E-03	8.90E-04	3.12E-05	2.70E-05	2.58E-04	7.32E-03
3.04E-04	8.79E-03	1.19E-03	4.10E-05	3.01E-04	3.01E-04	1.09E-02	3.04E-04	8.79E-03	1.19E-03	4.10E-05	3.55E-05	3.01E-04	1.07E-02
3.53E-04	1.13E-02	1.41E-03	4.93E-05	3.38E-04	3.38E-04	1.38E-02	3.53E-04	1.13E-02	1.41E-03	4.93E-05	4.17E-05	3.38E-04	1.35E-02
4.66E-04	1.73E-02	1.79E-03	5.96E-05	4.98E-04	4.98E-04	2.06E-02	4.66E-04	1.73E-02	1.79E-03	5.96E-05	4.67E-05	4.98E-04	2.02E-02
6.01E-04	2.24E-02	2.01E-03	6.51E-05	6.84E-04	6.84E-04	2.65E-02	6.01E-04	2.24E-02	2.01E-03	6.51E-05	4.72E-05	6.84E-04	2.58E-02
7.82E-04	2.90E-02	2.40E-03	6.75E-05	6.68E-04	6.68E-04	3.36E-02	7.82E-04	2.90E-02	2.40E-03	6.75E-05	4.64E-05	6.68E-04	3.29E-02
1.27E-03	4.36E-02	2.91E-03	7.65E-05	6.51E-04	6.51E-04	4.92E-02	1.27E-03	4.36E-02	2.91E-03	7.65E-05	4.78E-05	6.51E-04	4.86E-02
7.26E-03	1.23E-01	2.86E-03	9.02E-05	6.18E-04	6.18E-04	1.35E-01	7.26E-03	1.23E-01	2.86E-03	9.02E-05	6.50E-05	6.18E-04	1.34E-01
4.03E-03	1.22E-01	2.49E-03	9.48E-05	5.65E-04	5.65E-04	1.30E-01	4.03E-03	1.22E-01	2.49E-03	9.48E-05	7.42E-05	5.65E-04	1.30E-01
1.72E-03	5.78E-02	2.07E-03	8.55E-05	4.60E-04	4.60E-04	6.26E-02	1.72E-03	5.78E-02	2.07E-03	8.55E-05	6.19E-05	4.60E-04	6.22E-02
1.06E-03	3.39E-02	1.37E-03	6.25E-05	3.43E-04	3.43E-04	3.71E-02	1.06E-03	3.39E-02	1.37E-03	6.25E-05	5.00E-05	3.43E-04	3.68E-02
8.17E-04	2.57E-02	1.07E-03	5.13E-05	2.83E-04	2.83E-04	2.82E-02	8.17E-04	2.57E-02	1.07E-03	5.13E-05	3.84E-05	2.83E-04	2.79E-02
7.49E-04	2.43E-02	1.19E-03	5.64E-05	2.99E-04	2.99E-04	2.69E-02	7.49E-04	2.43E-02	1.19E-03	5.64E-05	4.21E-05	2.99E-04	2.66E-02
6.86E-04	2.21E-02	1.27E-03	5.69E-05	3.11E-04	3.11E-04	2.47E-02	6.86E-04	2.21E-02	1.27E-03	5.69E-05	4.14E-05	3.11E-04	2.44E-02
6.33E-04	1.98E-02	1.36E-03	5.89E-05	3.12E-04	3.12E-04	2.25E-02	6.33E-04	1.98E-02	1.36E-03	5.89E-05	4.02E-05	3.12E-04	2.22E-02
5.61E-04	1.67E-02	1.28E-03	5.33E-05	2.93E-04	2.93E-04	1.92E-02	5.61E-04	1.67E-02	1.28E-03	5.33E-05	3.40E-05	2.93E-04	1.89E-02
4.91E-04	1.37E-02	1.14E-03	4.46E-05	2.72E-04	2.72E-04	1.59E-02	4.91E-04	1.37E-02	1.14E-03	4.46E-05	2.54E-05	2.72E-04	1.57E-02
4.52E-04	1.20E-02	1.16E-03	4.20E-05	2.68E-04	2.68E-04	1.42E-02	4.52E-04	1.20E-02	1.16E-03	4.20E-05	2.34E-05	2.68E-04	1.39E-02
4.13E-04	1.03E-02	1.15E-03	3.87E-05	2.50E-04	2.50E-04	1.24E-02	4.13E-04	1.03E-02	1.15E-03	3.87E-05	2.13E-05	2.50E-04	1.22E-02
3.79E-04	8.86E-03	1.15E-03	3.69E-05	2.40E-04	2.40E-04	1.09E-02	3.79E-04	8.86E-03	1.15E-03	3.69E-05	2.04E-05	2.40E-04	1.07E-02
3.51E-04	7.66E-03	1.15E-03	3.62E-05	2.44E-04	2.44E-04	9.68E-03	3.51E-04	7.66E-03	1.15E-03	3.62E-05	1.98E-05	2.44E-04	9.46E-03
3.23E-04	6.56E-03	1.13E-03	3.51E-05	2.49E-04	2.49E-04	8.54E-03	3.23E-04	6.56E-03	1.13E-03	3.51E-05	1.99E-05	2.49E-04	8.31E-03
3.03E-04	5.76E-03	1.14E-03	3.52E-05	2.55E-04	2.55E-04	7.74E-03	3.03E-04	5.76E-03	1.14E-03	3.52E-05	2.13E-05	2.55E-04	7.51E-03
2.80E-04	4.90E-03	1.09E-03	3.38E-05	2.56E-04	2.56E-04	6.81E-03	2.80E-04	4.90E-03	1.09E-03	3.38E-05	2.20E-05	2.56E-04	6.58E-03
2.83E-04	4.93E-03	1.22E-03	3.89E-05	2.83E-04	2.83E-04	7.04E-03	2.83E-04	4.93E-03	1.22E-03	3.89E-05	2.65E-05	2.83E-04	6.78E-03
2.82E-04	4.86E-03	1.32E-03	4.30E-05	3.07E-04	3.07E-04	7.12E-03	2.82E-04	4.86E-03	1.32E-03	4.30E-05	3.07E-05	3.07E-04	6.85E-03
2.92E-04	5.16E-03	1.55E-03	5.16E-05	3.53E-04	3.53E-04	7.76E-03	2.92E-04	5.16E-03	1.55E-03	5.16E-05	3.84E-05	3.53E-04	7.45E-03
2.86E-04	4.91E-03	1.60E-03	5.37E-05	3.74E-04	3.74E-04	7.59E-03	2.86E-04	4.91E-03	1.60E-03	5.37E-05	4.18E-05	3.74E-04	7.26E-03
2.78E-04	4.63E-03	1.62E-03	5.47E-05	3.94E-04	3.94E-04	7.37E-03	2.78E-04	4.63E-03	1.62E-03	5.47E-05	4.46E-05	3.94E-04	7.02E-03
2.77E-04	4.56E-03	1.71E-03	5.86E-05	4.30E-04	4.30E-04	7.47E-03	2.77E-04	4.56E-03	1.71E-03	5.86E-05	4.94E-05	4.30E-04	7.08E-03
2.82E-04	4.62E-03	1.88E-03	6.52E-05	4.82E-04	4.82E-04	7.81E-03	2.82E-04	4.62E-03	1.88E-03	6.52E-05	5.68E-05	4.82E-04	7.39E-03
2.73E-04	4.34E-03	1.86E-03	6.45E-05	4.95E-04	4.95E-04	7.53E-03	2.73E-04	4.34E-03	1.86E-03	6.45E-05	5.77E-05	4.95E-04	7.09E-03
2.66E-04	4.07E-03	1.85E-03	6.38E-05	5.00E-04	5.00E-04	7.26E-03	2.66E-04	4.07E-03	1.85E-03	6.38E-05	5.81E-05	5.00E-04	6.81E-03
2.66E-04	4.03E-03	1.94E-03	6.69E-05	5.24E-04	5.24E-04	7.35E-03	2.66E-04	4.03E-03	1.94E-03	6.69E-05	6.18E-05	5.24E-04	6.88E-03
2.65E-04	3.98E-03	2.03E-03	6.99E-05	5.51E-04	5.51E-04	7.44E-03	2.65E-04	3.98E-03	2.03E-03	6.99E-05	6.55E-05	5.51E-04	6.95E-03
2.56E-04	3.71E-03	1.95E-03	6.69E-05	5.46E-04	5.46E-04	7.08E-03	2.56E-04	3.71E-03	1.95E-03	6.69E-05	6.36E-05	5.46E-04	6.60E-03

2.47E-04	3.45E-03	1.88E-03	6.38E-05	5.42E-04	5.42E-04	6.72E-03	2.47E-04	3.45E-03	1.88E-03	6.38E-05	6.15E-05	5.42E-04	6.24E-03
2.40E-04	3.26E-03	1.82E-03	6.16E-05	5.43E-04	5.43E-04	6.47E-03	2.40E-04	3.26E-03	1.82E-03	6.16E-05	6.00E-05	5.43E-04	5.98E-03
2.28E-04	2.92E-03	1.67E-03	5.58E-05	5.20E-04	5.20E-04	5.91E-03	2.28E-04	2.92E-03	1.67E-03	5.58E-05	5.50E-05	5.20E-04	5.45E-03
2.14E-04	2.59E-03	1.52E-03	5.01E-05	4.99E-04	4.99E-04	5.37E-03	2.14E-04	2.59E-03	1.52E-03	5.01E-05	4.99E-05	4.99E-04	4.92E-03
2.02E-04	2.29E-03	1.38E-03	4.51E-05	4.79E-04	4.79E-04	4.88E-03	2.02E-04	2.29E-03	1.38E-03	4.51E-05	4.53E-05	4.79E-04	4.45E-03
1.29E-04	1.95E-03	4.81E-04	1.61E-05	1.87E-04	1.87E-04	2.95E-03	1.29E-04	1.95E-03	4.81E-04	1.61E-05	1.56E-05	1.87E-04	2.78E-03
1.37E-04	2.27E-03	5.35E-04	1.78E-05	1.98E-04	1.98E-04	3.35E-03	1.37E-04	2.27E-03	5.35E-04	1.78E-05	1.70E-05	1.98E-04	3.17E-03
1.45E-04	2.59E-03	5.94E-04	1.96E-05	2.11E-04	2.11E-04	3.77E-03	1.45E-04	2.59E-03	5.94E-04	1.96E-05	1.85E-05	2.11E-04	3.57E-03
1.51E-04	2.90E-03	6.44E-04	2.13E-05	2.21E-04	2.21E-04	4.16E-03	1.51E-04	2.90E-03	6.44E-04	2.13E-05	1.96E-05	2.21E-04	3.96E-03
1.59E-04	3.23E-03	6.97E-04	2.32E-05	2.33E-04	2.33E-04	4.58E-03	1.59E-04	3.23E-03	6.97E-04	2.32E-05	2.11E-05	2.33E-04	4.37E-03
1.69E-04	3.66E-03	7.65E-04	2.55E-05	2.48E-04	2.48E-04	5.11E-03	1.69E-04	3.66E-03	7.65E-04	2.55E-05	2.29E-05	2.48E-04	4.89E-03
1.79E-04	4.10E-03	8.33E-04	2.78E-05	2.66E-04	2.66E-04	5.67E-03	1.79E-04	4.10E-03	8.33E-04	2.78E-05	2.50E-05	2.66E-04	5.43E-03
1.76E-04	3.85E-03	7.82E-04	2.73E-05	2.55E-04	2.55E-04	5.35E-03	1.76E-04	3.85E-03	7.82E-04	2.73E-05	2.43E-05	2.55E-04	5.12E-03
1.89E-04	4.47E-03	8.64E-04	2.99E-05	2.79E-04	2.79E-04	6.11E-03	1.89E-04	4.47E-03	8.64E-04	2.99E-05	2.69E-05	2.79E-04	5.86E-03
1.97E-04	4.77E-03	8.99E-04	3.12E-05	2.87E-04	2.87E-04	6.47E-03	1.97E-04	4.77E-03	8.99E-04	3.12E-05	2.81E-05	2.87E-04	6.21E-03
1.97E-04	4.48E-03	8.59E-04	3.04E-05	2.77E-04	2.77E-04	6.13E-03	1.97E-04	4.48E-03	8.59E-04	3.04E-05	2.73E-05	2.77E-04	5.88E-03
1.93E-04	3.76E-03	7.68E-04	2.78E-05	2.54E-04	2.54E-04	5.26E-03	1.93E-04	3.76E-03	7.68E-04	2.78E-05	2.49E-05	2.54E-04	5.03E-03
1.91E-04	3.31E-03	7.14E-04	2.60E-05	2.35E-04	2.35E-04	4.71E-03	1.91E-04	3.31E-03	7.14E-04	2.60E-05	2.25E-05	2.35E-04	4.50E-03
1.87E-04	2.80E-03	6.61E-04	2.38E-05	2.17E-04	2.17E-04	4.10E-03	1.87E-04	2.80E-03	6.61E-04	2.38E-05	2.00E-05	2.17E-04	3.91E-03
1.75E-04	1.99E-03	5.55E-04	1.86E-05	1.94E-04	1.94E-04	3.13E-03	1.75E-04	1.99E-03	5.55E-04	1.86E-05	1.57E-05	1.94E-04	2.95E-03
1.97E-04	2.72E-03	6.56E-04	2.28E-05	2.19E-04	2.19E-04	4.03E-03	1.97E-04	2.72E-03	6.56E-04	2.28E-05	1.89E-05	2.19E-04	3.83E-03
2.40E-04	4.54E-03	9.10E-04	3.29E-05	2.63E-04	2.63E-04	6.25E-03	2.40E-04	4.54E-03	9.10E-04	3.29E-05	2.79E-05	2.63E-04	6.01E-03
3.31E-04	9.51E-03	1.71E-03	5.77E-05	3.82E-04	3.82E-04	1.24E-02	3.31E-04	9.51E-03	1.71E-03	5.77E-05	4.78E-05	3.82E-04	1.20E-02
4.56E-04	1.58E-02	2.47E-03	7.67E-05	6.31E-04	6.31E-04	2.00E-02	4.56E-04	1.58E-02	2.47E-03	7.67E-05	5.75E-05	6.31E-04	1.95E-02
5.63E-04	1.97E-02	2.60E-03	8.55E-05	7.52E-04	7.52E-04	2.45E-02	5.63E-04	1.97E-02	2.60E-03	8.55E-05	6.04E-05	7.52E-04	2.38E-02
7.62E-04	2.61E-02	3.24E-03	9.06E-05	8.07E-04	8.07E-04	3.18E-02	7.62E-04	2.61E-02	3.24E-03	9.06E-05	5.95E-05	8.07E-04	3.10E-02
1.28E-03	4.10E-02	3.95E-03	1.04E-04	7.69E-04	7.69E-04	4.79E-02	1.28E-03	4.10E-02	3.95E-03	1.04E-04	6.00E-05	7.69E-04	4.72E-02
8.75E-03	1.36E-01	3.78E-03	1.23E-04	7.46E-04	7.46E-04	1.50E-01	8.75E-03	1.36E-01	3.78E-03	1.23E-04	8.14E-05	7.46E-04	1.50E-01
3.76E-03	1.13E-01	3.44E-03	1.32E-04	6.90E-04	6.90E-04	1.22E-01	3.76E-03	1.13E-01	3.44E-03	1.32E-04	9.32E-05	6.90E-04	1.22E-01
1.59E-03	5.14E-02	2.64E-03	1.13E-04	5.26E-04	5.26E-04	5.68E-02	1.59E-03	5.14E-02	2.64E-03	1.13E-04	7.85E-05	5.26E-04	5.63E-02
9.23E-04	2.95E-02	1.69E-03	8.26E-05	3.76E-04	3.76E-04	3.29E-02	9.23E-04	2.95E-02	1.69E-03	8.26E-05	5.83E-05	3.76E-04	3.26E-02
8.31E-04	2.66E-02	2.00E-03	9.31E-05	3.92E-04	3.92E-04	3.03E-02	8.31E-04	2.66E-02	2.00E-03	9.31E-05	6.19E-05	3.92E-04	3.00E-02
7.50E-04	2.30E-02	2.19E-03	9.58E-05	4.06E-04	4.06E-04	2.68E-02	7.50E-04	2.30E-02	2.19E-03	9.58E-05	5.92E-05	4.06E-04	2.65E-02
5.92E-04	1.65E-02	1.68E-03	6.93E-05	3.29E-04	3.29E-04	1.95E-02	5.92E-04	1.65E-02	1.68E-03	6.93E-05	4.05E-05	3.29E-04	1.92E-02
5.21E-04	1.37E-02	1.63E-03	6.20E-05	3.02E-04	3.02E-04	1.65E-02	5.21E-04	1.37E-02	1.63E-03	6.20E-05	3.25E-05	3.02E-04	1.62E-02
4.63E-04	1.13E-02	1.57E-03	5.42E-05	2.97E-04	2.97E-04	1.40E-02	4.63E-04	1.13E-02	1.57E-03	5.42E-05	2.62E-05	2.97E-04	1.38E-02
4.29E-04	1.00E-02	1.63E-03	5.31E-05	3.09E-04	3.09E-04	1.27E-02	4.29E-04	1.00E-02	1.63E-03	5.31E-05	2.57E-05	3.09E-04	1.25E-02
3.92E-04	8.57E-03	1.61E-03	5.08E-05	2.98E-04	2.98E-04	1.12E-02	3.92E-04	8.57E-03	1.61E-03	5.08E-05	2.42E-05	2.98E-04	1.09E-02
3.65E-04	7.51E-03	1.60E-03	5.05E-05	2.96E-04	2.96E-04	1.01E-02	3.65E-04	7.51E-03	1.60E-03	5.05E-05	2.46E-05	2.96E-04	9.85E-03
3.05E-04	5.29E-03	1.32E-03	3.98E-05	2.70E-04	2.70E-04	7.50E-03	3.05E-04	5.29E-03	1.32E-03	3.98E-05	2.11E-05	2.70E-04	7.25E-03
3.04E-04	5.26E-03	1.46E-03	4.54E-05	3.04E-04	3.04E-04	7.67E-03	3.04E-04	5.26E-03	1.46E-03	4.54E-05	2.60E-05	3.04E-04	7.40E-03
2.96E-04	4.97E-03	1.52E-03	4.85E-05	3.23E-04	3.23E-04	7.48E-03	2.96E-04	4.97E-03	1.52E-03	4.85E-05	3.00E-05	3.23E-04	7.19E-03
2.88E-04	4.69E-03	1.58E-03	5.09E-05	3.43E-04	3.43E-04	7.29E-03	2.88E-04	4.69E-03	1.58E-03	5.09E-05	3.43E-05	3.43E-04	6.98E-03
3.10E-04	5.38E-03	1.94E-03	6.59E-05	4.14E-04	4.14E-04	8.52E-03	3.10E-04	5.38E-03	1.94E-03	6.59E-05	4.67E-05	4.14E-04	8.15E-03
3.12E-04	5.37E-03	2.11E-03	7.30E-05	4.53E-04	4.53E-04	8.78E-03	3.12E-04	5.37E-03	2.11E-03	7.30E-05	5.41E-05	4.53E-04	8.38E-03
3.12E-04	5.31E-03	2.25E-03	7.89E-05	4.94E-04	4.94E-04	8.94E-03	3.12E-04	5.31E-03	2.25E-03	7.89E-05	6.13E-05	4.94E-04	8.51E-03
3.07E-04	5.08E-03	2.29E-03	8.07E-05	5.20E-04	5.20E-04	8.80E-03	3.07E-04	5.08E-03	2.29E-03	8.07E-05	6.56E-05	5.20E-04	8.34E-03
3.03E-04	4.90E-03	2.35E-03	8.33E-05	5.55E-04	5.55E-04	8.75E-03	3.03E-04	4.90E-03	2.35E-03	8.33E-05	7.06E-05	5.55E-04	8.27E-03
3.05E-04	4.88E-03	2.50E-03	8.93E-05	6.14E-04	6.14E-04	9.01E-03	3.05E-04	4.88E-03	2.50E-03	8.93E-05	7.90E-05	6.14E-04	8.47E-03
3.03E-04	4.77E-03	2.60E-03	9.27E-05	6.57E-04	6.57E-04	9.08E-03	3.03E-04	4.77E-03	2.60E-03	9.27E-05	8.45E-05	6.57E-04	8.50E-03
2.94E-04	4.51E-03	2.57E-03	9.09E-05	6.59E-04	6.59E-04	8.77E-03	2.94E-04	4.51E-03	2.57E-03	9.09E-05	8.43E-05	6.59E-04	8.20E-03
2.87E-04	4.29E-03	2.54E-03	8.96E-05	6.61E-04	6.61E-04	8.53E-03	2.87E-04	4.29E-03	2.54E-03	8.96E-05	8.42E-05	6.61E-04	7.95E-03
2.82E-04	4.14E-03	2.56E-03	8.98E-05	6.75E-04	6.75E-04	8.43E-03	2.82E-04	4.14E-03	2.56E-03	8.98E-05	8.56E-05	6.75E-04	7.84E-03
2.70E-04	3.85E-03	2.43E-03	8.46E-05	6.62E-04	6.62E-04	7.96E-03	2.70E-04	3.85E-03	2.43E-03	8.46E-05	8.17E-05	6.62E-04	7.38E-03

2.60E-04	3.58E-03	2.30E-03	7.95E-05	6.51E-04	6.51E-04	7.52E-03	2.60E-04	3.58E-03	2.30E-03	7.95E-05	7.75E-05	6.51E-04	6.94E-03
2.54E-04	3.42E-03	2.26E-03	7.75E-05	6.57E-04	6.57E-04	7.32E-03	2.54E-04	3.42E-03	2.26E-03	7.75E-05	7.62E-05	6.57E-04	6.74E-03
2.46E-04	3.21E-03	2.16E-03	7.36E-05	6.51E-04	6.51E-04	6.99E-03	2.46E-04	3.21E-03	2.16E-03	7.36E-05	7.27E-05	6.51E-04	6.41E-03
2.28E-04	2.78E-03	1.87E-03	6.31E-05	6.03E-04	6.03E-04	6.14E-03	2.28E-04	2.78E-03	1.87E-03	6.31E-05	6.30E-05	6.03E-04	5.60E-03
2.00E-04	2.10E-03	1.47E-03	4.79E-05	5.21E-04	5.21E-04	4.86E-03	2.00E-04	2.10E-03	1.47E-03	4.79E-05	4.88E-05	5.21E-04	4.39E-03
1.93E-04	1.95E-03	1.39E-03	4.49E-05	5.15E-04	5.15E-04	4.60E-03	1.93E-04	1.95E-03	1.39E-03	4.49E-05	4.61E-05	5.15E-04	4.13E-03
1.25E-04	1.95E-03	4.96E-04	1.68E-05	2.01E-04	2.01E-04	2.99E-03	1.25E-04	1.95E-03	4.96E-04	1.68E-05	1.64E-05	2.01E-04	2.80E-03
1.31E-04	2.19E-03	5.43E-04	1.83E-05	2.12E-04	2.12E-04	3.30E-03	1.31E-04	2.19E-03	5.43E-04	1.83E-05	1.80E-05	2.12E-04	3.11E-03
1.37E-04	2.42E-03	5.94E-04	1.98E-05	2.23E-04	2.23E-04	3.62E-03	1.37E-04	2.42E-03	5.94E-04	1.98E-05	1.93E-05	2.23E-04	3.41E-03
1.43E-04	2.68E-03	6.47E-04	2.15E-05	2.35E-04	2.35E-04	3.96E-03	1.43E-04	2.68E-03	6.47E-04	2.15E-05	2.06E-05	2.35E-04	3.75E-03
1.48E-04	2.87E-03	6.92E-04	2.29E-05	2.43E-04	2.43E-04	4.22E-03	1.48E-04	2.87E-03	6.92E-04	2.29E-05	2.17E-05	2.43E-04	4.00E-03
1.54E-04	3.09E-03	7.43E-04	2.46E-05	2.53E-04	2.53E-04	4.52E-03	1.54E-04	3.09E-03	7.43E-04	2.46E-05	2.30E-05	2.53E-04	4.29E-03
1.59E-04	3.27E-03	7.95E-04	2.64E-05	2.62E-04	2.62E-04	4.77E-03	1.59E-04	3.27E-03	7.95E-04	2.64E-05	2.44E-05	2.62E-04	4.54E-03
1.59E-04	3.19E-03	7.89E-04	2.68E-05	2.59E-04	2.59E-04	4.68E-03	1.59E-04	3.19E-03	7.89E-04	2.68E-05	2.47E-05	2.59E-04	4.45E-03
1.63E-04	3.20E-03	8.00E-04	2.79E-05	2.62E-04	2.62E-04	4.72E-03	1.63E-04	3.20E-03	8.00E-04	2.79E-05	2.55E-05	2.62E-04	4.48E-03
1.68E-04	3.21E-03	8.04E-04	2.87E-05	2.65E-04	2.65E-04	4.74E-03	1.68E-04	3.21E-03	8.04E-04	2.87E-05	2.61E-05	2.65E-04	4.50E-03
1.66E-04	2.86E-03	7.46E-04	2.74E-05	2.53E-04	2.53E-04	4.30E-03	1.66E-04	2.86E-03	7.46E-04	2.74E-05	2.47E-05	2.53E-04	4.07E-03
1.60E-04	2.20E-03	6.43E-04	2.36E-05	2.30E-04	2.30E-04	3.48E-03	1.60E-04	2.20E-03	6.43E-04	2.36E-05	2.16E-05	2.30E-04	3.27E-03
1.64E-04	2.12E-03	6.39E-04	2.31E-05	2.30E-04	2.30E-04	3.40E-03	1.64E-04	2.12E-03	6.39E-04	2.31E-05	2.12E-05	2.30E-04	3.19E-03
1.69E-04	2.19E-03	6.69E-04	2.36E-05	2.33E-04	2.33E-04	3.52E-03	1.69E-04	2.19E-03	6.69E-04	2.36E-05	2.13E-05	2.33E-04	3.31E-03
1.63E-04	1.73E-03	6.08E-04	2.00E-05	2.11E-04	2.11E-04	2.94E-03	1.63E-04	1.73E-03	6.08E-04	2.00E-05	1.82E-05	2.11E-04	2.75E-03
1.57E-04	1.15E-03	5.12E-04	1.55E-05	1.87E-04	1.87E-04	2.21E-03	1.57E-04	1.15E-03	5.12E-04	1.55E-05	1.42E-05	1.87E-04	2.03E-03
1.95E-04	2.57E-03	8.03E-04	2.79E-05	2.52E-04	2.52E-04	4.10E-03	1.95E-04	2.57E-03	8.03E-04	2.79E-05	2.29E-05	2.52E-04	3.87E-03
2.45E-04	4.65E-03	1.22E-03	4.59E-05	3.24E-04	3.24E-04	6.81E-03	2.45E-04	4.65E-03	1.22E-03	4.59E-05	3.49E-05	3.24E-04	6.52E-03
3.39E-04	9.05E-03	2.33E-03	7.55E-05	4.78E-04	4.78E-04	1.27E-02	3.39E-04	9.05E-03	2.33E-03	7.55E-05	5.67E-05	4.78E-04	1.23E-02
3.63E-04	9.08E-03	2.39E-03	8.22E-05	4.94E-04	4.94E-04	1.29E-02	3.63E-04	9.08E-03	2.39E-03	8.22E-05	6.36E-05	4.94E-04	1.25E-02
5.22E-04	1.50E-02	3.56E-03	1.17E-04	7.61E-04	7.61E-04	2.07E-02	5.22E-04	1.50E-02	3.56E-03	1.17E-04	7.86E-05	7.61E-04	2.01E-02
8.11E-04	2.28E-02	4.95E-03	1.38E-04	1.00E-03	1.00E-03	3.07E-02	8.11E-04	2.28E-02	4.95E-03	1.38E-04	8.00E-05	1.00E-03	2.98E-02
1.58E-03	3.75E-02	6.27E-03	1.77E-04	9.25E-04	9.25E-04	4.74E-02	1.58E-03	3.75E-02	6.27E-03	1.77E-04	8.01E-05	9.25E-04	4.66E-02
1.08E-02	2.65E-01	6.25E-03	2.17E-04	9.31E-04	9.31E-04	2.84E-01	1.08E-02	2.65E-01	6.25E-03	2.17E-04	1.07E-04	9.31E-04	2.84E-01
2.11E-03	5.09E-02	5.17E-03	2.28E-04	7.32E-04	7.32E-04	5.98E-02	2.11E-03	5.09E-02	5.17E-03	2.28E-04	1.23E-04	7.32E-04	5.92E-02
1.25E-03	3.00E-02	4.41E-03	2.07E-04	6.00E-04	6.00E-04	3.71E-02	1.25E-03	3.00E-02	4.41E-03	2.07E-04	1.02E-04	6.00E-04	3.66E-02
9.72E-04	2.40E-02	4.45E-03	1.95E-04	5.67E-04	5.67E-04	3.08E-02	9.72E-04	2.40E-02	4.45E-03	1.95E-04	9.37E-05	5.67E-04	3.03E-02
7.21E-04	1.76E-02	3.54E-03	1.49E-04	4.60E-04	4.60E-04	2.29E-02	7.21E-04	1.76E-02	3.54E-03	1.49E-04	7.35E-05	4.60E-04	2.25E-02
5.53E-04	1.22E-02	2.59E-03	9.28E-05	3.70E-04	3.70E-04	1.62E-02	5.53E-04	1.22E-02	2.59E-03	9.28E-05	4.18E-05	3.70E-04	1.58E-02
4.63E-04	9.03E-03	2.20E-03	6.82E-05	3.17E-04	3.17E-04	1.24E-02	4.63E-04	9.03E-03	2.20E-03	6.82E-05	2.79E-05	3.17E-04	1.21E-02
4.42E-04	8.49E-03	2.38E-03	7.32E-05	3.56E-04	3.56E-04	1.21E-02	4.42E-04	8.49E-03	2.38E-03	7.32E-05	2.96E-05	3.56E-04	1.18E-02
4.19E-04	7.84E-03	2.49E-03	7.80E-05	3.90E-04	3.90E-04	1.16E-02	4.19E-04	7.84E-03	2.49E-03	7.80E-05	3.15E-05	3.90E-04	1.12E-02
4.09E-04	7.57E-03	2.68E-03	8.78E-05	4.24E-04	4.24E-04	1.16E-02	4.09E-04	7.57E-03	2.68E-03	8.78E-05	3.72E-05	4.24E-04	1.12E-02
3.96E-04	7.18E-03	2.80E-03	9.50E-05	4.47E-04	4.47E-04	1.14E-02	3.96E-04	7.18E-03	2.80E-03	9.50E-05	4.51E-05	4.47E-04	1.10E-02
3.88E-04	6.94E-03	2.97E-03	1.04E-04	4.95E-04	4.95E-04	1.14E-02	3.88E-04	6.94E-03	2.97E-03	1.04E-04	5.49E-05	4.95E-04	1.10E-02
3.73E-04	6.52E-03	2.98E-03	1.06E-04	5.31E-04	5.31E-04	1.10E-02	3.73E-04	6.52E-03	2.98E-03	1.06E-04	6.31E-05	5.31E-04	1.06E-02
3.60E-04	6.10E-03	2.99E-03	1.07E-04	5.58E-04	5.58E-04	1.07E-02	3.60E-04	6.10E-03	2.99E-03	1.07E-04	7.03E-05	5.58E-04	1.02E-02
3.45E-04	5.62E-03	2.91E-03	1.05E-04	5.79E-04	5.79E-04	1.01E-02	3.45E-04	5.62E-03	2.91E-03	1.05E-04	7.42E-05	5.79E-04	9.63E-03
3.44E-04	5.53E-03	3.07E-03	1.12E-04	6.29E-04	6.29E-04	1.03E-02	3.44E-04	5.53E-03	3.07E-03	1.12E-04	8.38E-05	6.29E-04	9.78E-03
3.40E-04	5.39E-03	3.15E-03	1.16E-04	6.63E-04	6.63E-04	1.03E-02	3.40E-04	5.39E-03	3.15E-03	1.16E-04	9.20E-05	6.63E-04	9.75E-03
3.35E-04	5.24E-03	3.23E-03	1.19E-04	6.96E-04	6.96E-04	1.03E-02	3.35E-04	5.24E-03	3.23E-03	1.19E-04	9.92E-05	6.96E-04	9.71E-03
3.29E-04	5.07E-03	3.28E-03	1.20E-04	7.35E-04	7.35E-04	1.03E-02	3.29E-04	5.07E-03	3.28E-03	1.20E-04	1.05E-04	7.35E-04	9.64E-03
3.28E-04	5.00E-03	3.41E-03	1.25E-04	7.96E-04	7.96E-04	1.05E-02	3.28E-04	5.00E-03	3.41E-03	1.25E-04	1.13E-04	7.96E-04	9.77E-03
3.26E-04	4.92E-03	3.52E-03	1.28E-04	8.53E-04	8.53E-04	1.06E-02	3.26E-04	4.92E-03	3.52E-03	1.28E-04	1.20E-04	8.53E-04	9.87E-03
3.20E-04	4.74E-03	3.50E-03	1.27E-04	8.65E-04	8.65E-04	1.04E-02	3.20E-04	4.74E-03	3.50E-03	1.27E-04	1.20E-04	8.65E-04	9.67E-03
3.13E-04	4.54E-03	3.44E-03	1.24E-04	8.64E-04	8.64E-04	1.01E-02	3.13E-04	4.54E-03	3.44E-03	1.24E-04	1.19E-04	8.64E-04	9.40E-03
3.02E-04	4.27E-03	3.29E-03	1.17E-04	8.44E-04	8.44E-04	9.66E-03	3.02E-04	4.27E-03	3.29E-03	1.17E-04	1.14E-04	8.44E-04	8.93E-03
2.89E-04	3.98E-03	3.08E-03	1.09E-04	8.25E-04	8.25E-04	9.12E-03	2.89E-04	3.98E-03	3.08E-03	1.09E-04	1.07E-04	8.25E-04	8.40E-03

2.82E-04	3.79E-03	2.98E-03	1.05E-04	8.25E-04	8.25E-04	8.81E-03	2.82E-04	3.79E-03	2.98E-03	1.05E-04	1.04E-04	8.25E-04	8.08E-03
2.71E-04	3.56E-03	2.81E-03	9.81E-05	8.09E-04	8.09E-04	8.36E-03	2.71E-04	3.56E-03	2.81E-03	9.81E-05	9.81E-05	8.09E-04	7.65E-03
2.58E-04	3.28E-03	2.60E-03	8.98E-05	7.78E-04	7.78E-04	7.78E-03	2.58E-04	3.28E-03	2.60E-03	8.98E-05	9.01E-05	7.78E-04	7.09E-03
2.41E-04	2.91E-03	2.30E-03	7.85E-05	7.29E-04	7.29E-04	6.99E-03	2.41E-04	2.91E-03	2.30E-03	7.85E-05	7.95E-05	7.29E-04	6.34E-03
2.21E-04	2.45E-03	1.95E-03	6.52E-05	6.66E-04	6.66E-04	6.02E-03	2.21E-04	2.45E-03	1.95E-03	6.52E-05	6.67E-05	6.66E-04	5.42E-03
1.85E-04	1.64E-03	1.38E-03	4.41E-05	5.37E-04	5.37E-04	4.32E-03	1.85E-04	1.64E-03	1.38E-03	4.41E-05	4.64E-05	5.37E-04	3.83E-03
1.68E-04	1.27E-03	1.12E-03	3.50E-05	4.77E-04	4.77E-04	3.54E-03	1.68E-04	1.27E-03	1.12E-03	3.50E-05	3.72E-05	4.77E-04	3.10E-03
1.21E-04	1.90E-03	5.15E-04	1.70E-05	2.13E-04	2.13E-04	2.98E-03	1.21E-04	1.90E-03	5.15E-04	1.70E-05	1.61E-05	2.13E-04	2.78E-03
1.27E-04	2.13E-03	5.66E-04	1.87E-05	2.29E-04	2.29E-04	3.30E-03	1.27E-04	2.13E-03	5.66E-04	1.87E-05	1.80E-05	2.29E-04	3.08E-03
1.31E-04	2.28E-03	6.00E-04	1.99E-05	2.37E-04	2.37E-04	3.51E-03	1.31E-04	2.28E-03	6.00E-04	1.99E-05	1.93E-05	2.37E-04	3.29E-03
1.36E-04	2.49E-03	6.46E-04	2.15E-05	2.48E-04	2.48E-04	3.79E-03	1.36E-04	2.49E-03	6.46E-04	2.15E-05	2.08E-05	2.48E-04	3.56E-03
1.39E-04	2.60E-03	6.78E-04	2.27E-05	2.53E-04	2.53E-04	3.95E-03	1.39E-04	2.60E-03	6.78E-04	2.27E-05	2.20E-05	2.53E-04	3.72E-03
1.43E-04	2.73E-03	7.15E-04	2.40E-05	2.60E-04	2.60E-04	4.13E-03	1.43E-04	2.73E-03	7.15E-04	2.40E-05	2.32E-05	2.60E-04	3.89E-03
1.47E-04	2.88E-03	7.69E-04	2.58E-05	2.71E-04	2.71E-04	4.36E-03	1.47E-04	2.88E-03	7.69E-04	2.58E-05	2.47E-05	2.71E-04	4.11E-03
1.51E-04	2.96E-03	8.15E-04	2.74E-05	2.79E-04	2.79E-04	4.51E-03	1.51E-04	2.96E-03	8.15E-04	2.74E-05	2.59E-05	2.79E-04	4.26E-03
1.50E-04	2.78E-03	7.97E-04	2.73E-05	2.72E-04	2.72E-04	4.30E-03	1.50E-04	2.78E-03	7.97E-04	2.73E-05	2.55E-05	2.72E-04	4.05E-03
1.45E-04	2.23E-03	6.95E-04	2.41E-05	2.49E-04	2.49E-04	3.59E-03	1.45E-04	2.23E-03	6.95E-04	2.41E-05	2.23E-05	2.49E-04	3.36E-03
1.40E-04	1.69E-03	6.06E-04	2.05E-05	2.28E-04	2.28E-04	2.91E-03	1.40E-04	1.69E-03	6.06E-04	2.05E-05	1.91E-05	2.28E-04	2.70E-03
1.34E-04	1.11E-03	5.05E-04	1.61E-05	2.04E-04	2.04E-04	2.17E-03	1.34E-04	1.11E-03	5.05E-04	1.61E-05	1.56E-05	2.04E-04	1.98E-03
1.42E-04	1.23E-03	5.51E-04	1.79E-05	2.14E-04	2.14E-04	2.37E-03	1.42E-04	1.23E-03	5.51E-04	1.79E-05	1.71E-05	2.14E-04	2.17E-03
1.52E-04	1.52E-03	6.30E-04	2.11E-05	2.32E-04	2.32E-04	2.79E-03	1.52E-04	1.52E-03	6.30E-04	2.11E-05	1.97E-05	2.32E-04	2.57E-03
1.57E-04	1.60E-03	6.74E-04	2.27E-05	2.42E-04	2.42E-04	2.94E-03	1.57E-04	1.60E-03	6.74E-04	2.27E-05	2.09E-05	2.42E-04	2.72E-03
1.45E-04	9.12E-04	5.31E-04	1.60E-05	2.04E-04	2.04E-04	2.01E-03	1.45E-04	9.12E-04	5.31E-04	1.60E-05	1.54E-05	2.04E-04	1.82E-03
1.65E-04	1.49E-03	7.07E-04	2.25E-05	2.42E-04	2.42E-04	2.86E-03	1.65E-04	1.49E-03	7.07E-04	2.25E-05	2.04E-05	2.42E-04	2.64E-03
2.15E-04	3.42E-03	1.25E-03	4.54E-05	3.47E-04	3.47E-04	5.62E-03	2.15E-04	3.42E-03	1.25E-03	4.54E-05	3.64E-05	3.47E-04	5.31E-03
2.67E-04	5.19E-03	1.89E-03	6.93E-05	4.40E-04	4.40E-04	8.29E-03	2.67E-04	5.19E-03	1.89E-03	6.93E-05	5.20E-05	4.40E-04	7.90E-03
3.61E-04	8.52E-03	3.42E-03	1.08E-04	6.31E-04	6.31E-04	1.37E-02	3.61E-04	8.52E-03	3.42E-03	1.08E-04	7.36E-05	6.31E-04	1.31E-02
4.64E-04	1.10E-02	4.92E-03	1.41E-04	8.49E-04	8.49E-04	1.83E-02	4.64E-04	1.10E-02	4.92E-03	1.41E-04	8.74E-05	8.49E-04	1.75E-02
6.65E-04	1.39E-02	7.08E-03	1.79E-04	1.33E-03	1.33E-03	2.45E-02	6.65E-04	1.39E-02	7.08E-03	1.79E-04	9.95E-05	1.33E-03	2.33E-02
1.13E-03	1.61E-02	1.05E-02	2.73E-04	1.29E-03	1.29E-03	3.06E-02	1.13E-03	1.61E-02	1.05E-02	2.73E-04	1.12E-04	1.29E-03	2.95E-02
1.37E-02	1.69E-02	5.46E-02	1.31E-03	1.15E-03	1.15E-03	8.89E-02	1.37E-02	1.69E-02	5.46E-02	1.31E-03	1.20E-04	1.15E-03	8.79E-02
3.01E-03	1.63E-02	1.93E-02	7.84E-04	9.72E-04	9.72E-04	4.14E-02	3.01E-03	1.63E-02	1.93E-02	7.84E-04	1.61E-04	9.72E-04	4.06E-02
1.68E-03	1.55E-02	1.37E-02	5.15E-04	9.02E-04	9.02E-04	3.32E-02	1.68E-03	1.55E-02	1.37E-02	5.15E-04	1.77E-04	9.02E-04	3.25E-02
1.12E-03	1.31E-02	9.24E-03	3.48E-04	7.07E-04	7.07E-04	2.52E-02	1.12E-03	1.31E-02	9.24E-03	3.48E-04	1.33E-04	7.07E-04	2.46E-02
7.98E-04	1.06E-02	6.40E-03	2.20E-04	5.71E-04	5.71E-04	1.92E-02	7.98E-04	1.06E-02	6.40E-03	2.20E-04	8.49E-05	5.71E-04	1.87E-02
5.74E-04	7.99E-03	4.49E-03	1.32E-04	4.62E-04	4.62E-04	1.41E-02	5.74E-04	7.99E-03	4.49E-03	1.32E-04	4.55E-05	4.62E-04	1.37E-02
5.36E-04	8.11E-03	4.79E-03	1.52E-04	5.44E-04	5.44E-04	1.47E-02	5.36E-04	8.11E-03	4.79E-03	1.52E-04	5.12E-05	5.44E-04	1.42E-02
4.93E-04	7.36E-03	4.66E-03	1.56E-04	5.69E-04	5.69E-04	1.38E-02	4.93E-04	7.36E-03	4.66E-03	1.56E-04	5.24E-05	5.69E-04	1.33E-02
4.58E-04	6.70E-03	4.42E-03	1.53E-04	6.04E-04	6.04E-04	1.29E-02	4.58E-04	6.70E-03	4.42E-03	1.53E-04	5.82E-05	6.04E-04	1.24E-02
4.47E-04	6.59E-03	4.53E-03	1.65E-04	6.65E-04	6.65E-04	1.31E-02	4.47E-04	6.59E-03	4.53E-03	1.65E-04	7.36E-05	6.65E-04	1.25E-02
4.51E-04	6.77E-03	4.92E-03	1.88E-04	7.43E-04	7.43E-04	1.38E-02	4.51E-04	6.77E-03	4.92E-03	1.88E-04	9.88E-05	7.43E-04	1.32E-02
4.38E-04	6.60E-03	5.01E-03	1.95E-04	8.05E-04	8.05E-04	1.38E-02	4.38E-04	6.60E-03	5.01E-03	1.95E-04	1.17E-04	8.05E-04	1.32E-02
4.34E-04	6.54E-03	5.23E-03	2.05E-04	8.92E-04	8.92E-04	1.42E-02	4.34E-04	6.54E-03	5.23E-03	2.05E-04	1.38E-04	8.92E-04	1.34E-02
4.07E-04	6.03E-03	4.90E-03	1.90E-04	8.95E-04	8.95E-04	1.33E-02	4.07E-04	6.03E-03	4.90E-03	1.90E-04	1.40E-04	8.95E-04	1.26E-02
3.96E-04	5.83E-03	4.91E-03	1.90E-04	9.52E-04	9.52E-04	1.32E-02	3.96E-04	5.83E-03	4.91E-03	1.90E-04	1.50E-04	9.52E-04	1.24E-02
3.80E-04	5.51E-03	4.76E-03	1.83E-04	9.67E-04	9.67E-04	1.28E-02	3.80E-04	5.51E-03	4.76E-03	1.83E-04	1.53E-04	9.67E-04	1.20E-02
3.70E-04	5.31E-03	4.72E-03	1.80E-04	9.76E-04	9.76E-04	1.25E-02	3.70E-04	5.31E-03	4.72E-03	1.80E-04	1.58E-04	9.76E-04	1.17E-02
3.62E-04	5.13E-03	4.70E-03	1.78E-04	1.01E-03	1.01E-03	1.24E-02	3.62E-04	5.13E-03	4.70E-03	1.78E-04	1.63E-04	1.01E-03	1.15E-02
3.55E-04	4.96E-03	4.66E-03	1.75E-04	1.06E-03	1.06E-03	1.23E-02	3.55E-04	4.96E-03	4.66E-03	1.75E-04	1.66E-04	1.06E-03	1.14E-02
3.54E-04	4.90E-03	4.77E-03	1.77E-04	1.12E-03	1.12E-03	1.24E-02	3.54E-04	4.90E-03	4.77E-03	1.77E-04	1.72E-04	1.12E-03	1.15E-02
3.48E-04	4.78E-03	4.77E-03	1.75E-04	1.15E-03	1.15E-03	1.24E-02	3.48E-04	4.78E-03	4.77E-03	1.75E-04	1.73E-04	1.15E-03	1.14E-02
3.37E-04	4.58E-03	4.60E-03	1.67E-04	1.13E-03	1.13E-03	1.19E-02	3.37E-04	4.58E-03	4.60E-03	1.67E-04	1.67E-04	1.13E-03	1.10E-02
3.25E-04	4.36E-03	4.37E-03	1.57E-04	1.10E-03	1.10E-03	1.14E-02	3.25E-04	4.36E-03	4.37E-03	1.57E-04	1.59E-04	1.10E-03	1.05E-02
3.16E-04	4.17E-03	4.19E-03	1.49E-04	1.10E-03	1.10E-03	1.10E-02	3.16E-04	4.17E-03	4.19E-03	1.49E-04	1.52E-04	1.10E-03	1.01E-02

3.04E-04	3.94E-03	3.92E-03	1.39E-04	1.07E-03	1.07E-03	1.04E-02	3.04E-04	3.94E-03	3.92E-03	1.39E-04	1.42E-04	1.07E-03	9.52E-03
2.82E-04	3.53E-03	3.40E-03	1.20E-04	9.73E-04	9.73E-04	9.28E-03	2.82E-04	3.53E-03	3.40E-03	1.20E-04	1.22E-04	9.73E-04	8.43E-03
2.65E-04	3.18E-03	3.01E-03	1.05E-04	9.04E-04	9.04E-04	8.37E-03	2.65E-04	3.18E-03	3.01E-03	1.05E-04	1.07E-04	9.04E-04	7.58E-03
2.53E-04	2.95E-03	2.76E-03	9.52E-05	8.71E-04	8.71E-04	7.80E-03	2.53E-04	2.95E-03	2.76E-03	9.52E-05	9.72E-05	8.71E-04	7.02E-03
2.33E-04	2.55E-03	2.36E-03	8.00E-05	7.99E-04	7.99E-04	6.82E-03	2.33E-04	2.55E-03	2.36E-03	8.00E-05	8.24E-05	7.99E-04	6.10E-03
2.17E-04	2.20E-03	2.05E-03	6.81E-05	7.40E-04	7.40E-04	6.02E-03	2.17E-04	2.20E-03	2.05E-03	6.81E-05	7.06E-05	7.40E-04	5.35E-03
1.96E-04	1.74E-03	1.66E-03	5.35E-05	6.57E-04	6.57E-04	4.96E-03	1.96E-04	1.74E-03	1.66E-03	5.35E-05	5.62E-05	6.57E-04	4.36E-03
1.83E-04	1.48E-03	1.43E-03	4.55E-05	6.05E-04	6.05E-04	4.35E-03	1.83E-04	1.48E-03	1.43E-03	4.55E-05	4.82E-05	6.05E-04	3.79E-03
1.17E-04	1.84E-03	5.35E-04	1.74E-05	2.18E-04	2.18E-04	2.94E-03	1.17E-04	1.84E-03	5.35E-04	1.74E-05	1.57E-05	2.18E-04	2.74E-03
1.22E-04	2.03E-03	5.89E-04	1.91E-05	2.36E-04	2.36E-04	3.23E-03	1.22E-04	2.03E-03	5.89E-04	1.91E-05	1.72E-05	2.36E-04	3.01E-03
1.26E-04	2.19E-03	6.28E-04	2.05E-05	2.49E-04	2.49E-04	3.46E-03	1.26E-04	2.19E-03	6.28E-04	2.05E-05	1.85E-05	2.49E-04	3.23E-03
1.29E-04	2.30E-03	6.57E-04	2.16E-05	2.58E-04	2.58E-04	3.63E-03	1.29E-04	2.30E-03	6.57E-04	2.16E-05	1.96E-05	2.58E-04	3.39E-03
1.33E-04	2.45E-03	7.00E-04	2.32E-05	2.70E-04	2.70E-04	3.85E-03	1.33E-04	2.45E-03	7.00E-04	2.32E-05	2.12E-05	2.70E-04	3.60E-03
1.39E-04	2.63E-03	7.55E-04	2.51E-05	2.85E-04	2.85E-04	4.12E-03	1.39E-04	2.63E-03	7.55E-04	2.51E-05	2.32E-05	2.85E-04	3.86E-03
1.43E-04	2.79E-03	8.15E-04	2.71E-05	2.97E-04	2.97E-04	4.36E-03	1.43E-04	2.79E-03	8.15E-04	2.71E-05	2.52E-05	2.97E-04	4.09E-03
1.40E-04	2.62E-03	7.84E-04	2.69E-05	2.86E-04	2.86E-04	4.14E-03	1.40E-04	2.62E-03	7.84E-04	2.69E-05	2.52E-05	2.86E-04	3.88E-03
1.34E-04	2.15E-03	6.85E-04	2.42E-05	2.62E-04	2.62E-04	3.52E-03	1.34E-04	2.15E-03	6.85E-04	2.42E-05	2.28E-05	2.62E-04	3.28E-03
1.20E-04	1.26E-03	5.10E-04	1.69E-05	2.16E-04	2.16E-04	2.34E-03	1.20E-04	1.26E-03	5.10E-04	1.69E-05	1.63E-05	2.16E-04	2.14E-03
1.21E-04	1.02E-03	4.80E-04	1.53E-05	2.09E-04	2.09E-04	2.06E-03	1.21E-04	1.02E-03	4.80E-04	1.53E-05	1.49E-05	2.09E-04	1.86E-03
1.23E-04	9.11E-04	4.79E-04	1.48E-05	2.10E-04	2.10E-04	1.95E-03	1.23E-04	9.11E-04	4.79E-04	1.48E-05	1.46E-05	2.10E-04	1.75E-03
1.27E-04	8.46E-04	4.90E-04	1.49E-05	2.13E-04	2.13E-04	1.90E-03	1.27E-04	8.46E-04	4.90E-04	1.49E-05	1.46E-05	2.13E-04	1.71E-03
1.33E-04	8.26E-04	5.12E-04	1.54E-05	2.17E-04	2.17E-04	1.92E-03	1.33E-04	8.26E-04	5.12E-04	1.54E-05	1.51E-05	2.17E-04	1.72E-03
1.43E-04	1.03E-03	5.95E-04	1.84E-05	2.37E-04	2.37E-04	2.26E-03	1.43E-04	1.03E-03	5.95E-04	1.84E-05	1.78E-05	2.37E-04	2.04E-03
1.49E-04	1.12E-03	6.56E-04	2.05E-05	2.52E-04	2.52E-04	2.45E-03	1.49E-04	1.12E-03	6.56E-04	2.05E-05	1.97E-05	2.52E-04	2.22E-03
1.73E-04	2.08E-03	9.71E-04	3.33E-05	3.27E-04	3.27E-04	3.91E-03	1.73E-04	2.08E-03	9.71E-04	3.33E-05	3.04E-05	3.27E-04	3.62E-03
1.94E-04	2.77E-03	1.27E-03	4.55E-05	3.88E-04	3.88E-04	5.05E-03	1.94E-04	2.77E-03	1.27E-03	4.55E-05	4.01E-05	3.88E-04	4.71E-03
2.31E-04	3.86E-03	1.83E-03	6.78E-05	4.85E-04	4.85E-04	6.95E-03	2.31E-04	3.86E-03	1.83E-03	6.78E-05	5.58E-05	4.85E-04	6.52E-03
2.98E-04	5.71E-03	3.10E-03	1.08E-04	6.55E-04	6.55E-04	1.05E-02	2.98E-04	5.71E-03	3.10E-03	1.08E-04	8.23E-05	6.55E-04	9.96E-03
3.91E-04	7.57E-03	5.26E-03	1.57E-04	8.75E-04	8.75E-04	1.51E-02	3.91E-04	7.57E-03	5.26E-03	1.57E-04	1.05E-04	8.75E-04	1.44E-02
5.69E-04	9.44E-03	9.54E-03	2.10E-04	1.70E-03	1.70E-03	2.32E-02	5.69E-04	9.44E-03	9.54E-03	2.10E-04	1.19E-04	1.70E-03	2.16E-02
8.73E-04	9.74E-03	1.54E-02	2.96E-04	1.96E-03	1.96E-03	3.02E-02	8.73E-04	9.74E-03	1.54E-02	2.96E-04	1.38E-04	1.96E-03	2.84E-02
8.73E-03	9.70E-03	6.31E-02	6.21E-04	1.67E-03	1.67E-03	8.54E-02	8.73E-03	9.70E-03	6.31E-02	6.21E-04	1.72E-04	1.67E-03	8.39E-02
3.67E-03	9.50E-03	7.03E-02	1.80E-03	1.38E-03	1.38E-03	8.81E-02	3.67E-03	9.50E-03	7.03E-02	1.80E-03	2.08E-04	1.38E-03	8.69E-02
4.32E-03	8.61E-03	2.80E-02	9.13E-04	1.17E-03	1.17E-03	4.42E-02	4.32E-03	8.61E-03	2.80E-02	9.13E-04	2.50E-04	1.17E-03	4.33E-02
1.68E-03	7.30E-03	1.60E-02	5.44E-04	9.88E-04	9.88E-04	2.75E-02	1.68E-03	7.30E-03	1.60E-02	5.44E-04	1.78E-04	9.88E-04	2.67E-02
1.01E-03	6.05E-03	1.08E-02	3.42E-04	8.34E-04	8.34E-04	1.99E-02	1.01E-03	6.05E-03	1.08E-02	3.42E-04	9.49E-05	8.34E-04	1.91E-02
9.06E-04	6.93E-03	1.14E-02	4.51E-04	9.92E-04	9.92E-04	2.17E-02	9.06E-04	6.93E-03	1.14E-02	4.51E-04	1.13E-04	9.92E-04	2.08E-02
6.93E-04	6.18E-03	8.85E-03	3.61E-04	9.36E-04	9.36E-04	1.80E-02	6.93E-04	6.18E-03	8.85E-03	3.61E-04	9.90E-05	9.36E-04	1.71E-02
6.22E-04	6.45E-03	8.77E-03	3.78E-04	1.04E-03	1.04E-03	1.83E-02	6.22E-04	6.45E-03	8.77E-03	3.78E-04	1.36E-04	1.04E-03	1.74E-02
5.42E-04	6.07E-03	7.93E-03	3.40E-04	1.08E-03	1.08E-03	1.70E-02	5.42E-04	6.07E-03	7.93E-03	3.40E-04	1.56E-04	1.08E-03	1.61E-02
5.16E-04	5.99E-03	7.87E-03	3.40E-04	1.18E-03	1.18E-03	1.71E-02	5.16E-04	5.99E-03	7.87E-03	3.40E-04	1.89E-04	1.18E-03	1.61E-02
5.11E-04	6.11E-03	8.12E-03	3.50E-04	1.27E-03	1.27E-03	1.76E-02	5.11E-04	6.11E-03	8.12E-03	3.50E-04	2.29E-04	1.27E-03	1.66E-02
4.97E-04	6.09E-03	8.09E-03	3.43E-04	1.35E-03	1.35E-03	1.77E-02	4.97E-04	6.09E-03	8.09E-03	3.43E-04	2.55E-04	1.35E-03	1.66E-02
4.79E-04	5.98E-03	8.00E-03	3.32E-04	1.42E-03	1.42E-03	1.76E-02	4.79E-04	5.98E-03	8.00E-03	3.32E-04	2.72E-04	1.42E-03	1.65E-02
4.60E-04	5.80E-03	7.79E-03	3.17E-04	1.46E-03	1.46E-03	1.73E-02	4.60E-04	5.80E-03	7.79E-03	3.17E-04	2.78E-04	1.46E-03	1.61E-02
4.40E-04	5.57E-03	7.48E-03	3.00E-04	1.49E-03	1.49E-03	1.68E-02	4.40E-04	5.57E-03	7.48E-03	3.00E-04	2.76E-04	1.49E-03	1.56E-02
4.19E-04	5.32E-03	7.08E-03	2.80E-04	1.45E-03	1.45E-03	1.60E-02	4.19E-04	5.32E-03	7.08E-03	2.80E-04	2.68E-04	1.45E-03	1.48E-02
3.74E-04	4.65E-03	5.81E-03	2.29E-04	1.26E-03	1.26E-03	1.36E-02	3.74E-04	4.65E-03	5.81E-03	2.29E-04	2.22E-04	1.26E-03	1.25E-02
3.81E-04	4.77E-03	6.22E-03	2.40E-04	1.39E-03	1.39E-03	1.44E-02	3.81E-04	4.77E-03	6.22E-03	2.40E-04	2.41E-04	1.39E-03	1.32E-02
3.82E-04	4.78E-03	6.45E-03	2.43E-04	1.50E-03	1.50E-03	1.49E-02	3.82E-04	4.78E-03	6.45E-03	2.43E-04	2.50E-04	1.50E-03	1.36E-02
3.76E-04	4.68E-03	6.41E-03	2.37E-04	1.53E-03	1.53E-03	1.48E-02	3.76E-04	4.68E-03	6.41E-03	2.37E-04	2.47E-04	1.53E-03	1.35E-02
3.65E-04	4.52E-03	6.15E-03	2.24E-04	1.50E-03	1.50E-03	1.42E-02	3.65E-04	4.52E-03	6.15E-03	2.24E-04	2.35E-04	1.50E-03	1.30E-02
3.52E-04	4.32E-03	5.77E-03	2.09E-04	1.46E-03	1.46E-03	1.36E-02	3.52E-04	4.32E-03	5.77E-03	2.09E-04	2.19E-04	1.46E-03	1.23E-02
3.38E-04	4.11E-03	5.39E-03	1.93E-04	1.43E-03	1.43E-03	1.29E-02	3.38E-04	4.11E-03	5.39E-03	1.93E-04	2.03E-04	1.43E-03	1.17E-02

3.26E-04	3.92E-03	5.03E-03	1.80E-04	1.38E-03	1.38E-03	1.22E-02	3.26E-04	3.92E-03	5.03E-03	1.80E-04	1.88E-04	1.38E-03	1.10E-02
2.96E-04	3.43E-03	4.12E-03	1.47E-04	1.19E-03	1.19E-03	1.04E-02	2.96E-04	3.43E-03	4.12E-03	1.47E-04	1.53E-04	1.19E-03	9.34E-03
2.64E-04	2.87E-03	3.31E-03	1.16E-04	1.02E-03	1.02E-03	8.61E-03	2.64E-04	2.87E-03	3.31E-03	1.16E-04	1.20E-04	1.02E-03	7.71E-03
2.42E-04	2.49E-03	2.81E-03	9.64E-05	9.31E-04	9.31E-04	7.49E-03	2.42E-04	2.49E-03	2.81E-03	9.64E-05	1.01E-04	9.31E-04	6.66E-03
2.31E-04	2.30E-03	2.56E-03	8.68E-05	8.96E-04	8.96E-04	6.97E-03	2.31E-04	2.30E-03	2.56E-03	8.68E-05	9.07E-05	8.96E-04	6.17E-03
2.18E-04	2.05E-03	2.26E-03	7.53E-05	8.38E-04	8.38E-04	6.28E-03	2.18E-04	2.05E-03	2.26E-03	7.53E-05	7.89E-05	8.38E-04	5.52E-03
1.98E-04	1.64E-03	1.83E-03	5.92E-05	7.41E-04	7.41E-04	5.21E-03	1.98E-04	1.64E-03	1.83E-03	5.92E-05	6.26E-05	7.41E-04	4.53E-03
1.99E-04	1.72E-03	1.85E-03	6.01E-05	7.61E-04	7.61E-04	5.35E-03	1.99E-04	1.72E-03	1.85E-03	6.01E-05	6.33E-05	7.61E-04	4.65E-03
1.88E-04	1.50E-03	1.62E-03	5.16E-05	7.04E-04	7.04E-04	4.77E-03	1.88E-04	1.50E-03	1.62E-03	5.16E-05	5.46E-05	7.04E-04	4.12E-03
1.15E-04	1.81E-03	5.44E-04	1.78E-05	2.22E-04	2.22E-04	2.93E-03	1.15E-04	1.81E-03	5.44E-04	1.78E-05	1.65E-05	2.22E-04	2.72E-03
1.19E-04	1.94E-03	5.88E-04	1.92E-05	2.36E-04	2.36E-04	3.14E-03	1.19E-04	1.94E-03	5.88E-04	1.92E-05	1.77E-05	2.36E-04	2.92E-03
1.22E-04	2.07E-03	6.28E-04	2.05E-05	2.49E-04	2.49E-04	3.34E-03	1.22E-04	2.07E-03	6.28E-04	2.05E-05	1.88E-05	2.49E-04	3.11E-03
1.23E-04	2.11E-03	6.47E-04	2.13E-05	2.55E-04	2.55E-04	3.41E-03	1.23E-04	2.11E-03	6.47E-04	2.13E-05	1.94E-05	2.55E-04	3.18E-03
1.28E-04	2.29E-03	7.10E-04	2.33E-05	2.76E-04	2.76E-04	3.70E-03	1.28E-04	2.29E-03	7.10E-04	2.33E-05	2.11E-05	2.76E-04	3.45E-03
1.33E-04	2.45E-03	7.75E-04	2.53E-05	2.95E-04	2.95E-04	3.97E-03	1.33E-04	2.45E-03	7.75E-04	2.53E-05	2.28E-05	2.95E-04	3.70E-03
1.39E-04	2.65E-03	8.58E-04	2.79E-05	3.21E-04	3.21E-04	4.32E-03	1.39E-04	2.65E-03	8.58E-04	2.79E-05	2.51E-05	3.21E-04	4.02E-03
1.29E-04	2.19E-03	7.18E-04	2.49E-05	2.83E-04	2.83E-04	3.62E-03	1.29E-04	2.19E-03	7.18E-04	2.49E-05	2.27E-05	2.83E-04	3.36E-03
1.19E-04	1.57E-03	5.77E-04	2.01E-05	2.45E-04	2.45E-04	2.78E-03	1.19E-04	1.57E-03	5.77E-04	2.01E-05	1.86E-05	2.45E-04	2.55E-03
1.11E-04	1.02E-03	4.63E-04	1.51E-05	2.14E-04	2.14E-04	2.04E-03	1.11E-04	1.02E-03	4.63E-04	1.51E-05	1.45E-05	2.14E-04	1.84E-03
1.02E-04	4.72E-04	3.35E-04	9.69E-06	1.79E-04	1.79E-04	1.28E-03	1.02E-04	4.72E-04	3.35E-04	9.69E-06	9.99E-06	1.79E-04	1.11E-03
1.04E-04	4.32E-04	3.40E-04	9.69E-06	1.82E-04	1.82E-04	1.25E-03	1.04E-04	4.32E-04	3.40E-04	9.69E-06	1.01E-05	1.82E-04	1.08E-03
1.13E-04	5.66E-04	4.09E-04	1.20E-05	2.04E-04	2.04E-04	1.51E-03	1.13E-04	5.66E-04	4.09E-04	1.20E-05	1.22E-05	2.04E-04	1.32E-03
1.23E-04	6.96E-04	4.78E-04	1.43E-05	2.25E-04	2.25E-04	1.76E-03	1.23E-04	6.96E-04	4.78E-04	1.43E-05	1.43E-05	2.25E-04	1.55E-03
1.39E-04	1.07E-03	6.32E-04	1.99E-05	2.67E-04	2.67E-04	2.39E-03	1.39E-04	1.07E-03	6.32E-04	1.99E-05	1.90E-05	2.67E-04	2.14E-03
1.59E-04	1.68E-03	8.84E-04	2.96E-05	3.28E-04	3.28E-04	3.41E-03	1.59E-04	1.68E-03	8.84E-04	2.96E-05	2.68E-05	3.28E-04	3.11E-03
1.82E-04	2.47E-03	1.25E-03	4.46E-05	4.11E-04	4.11E-04	4.76E-03	1.82E-04	2.47E-03	1.25E-03	4.46E-05	3.93E-05	4.11E-04	4.39E-03
2.08E-04	3.36E-03	1.75E-03	6.55E-05	5.21E-04	5.21E-04	6.42E-03	2.08E-04	3.36E-03	1.75E-03	6.55E-05	5.69E-05	5.21E-04	5.96E-03
2.34E-04	4.05E-03	2.36E-03	8.77E-05	6.45E-04	6.45E-04	8.02E-03	2.34E-04	4.05E-03	2.36E-03	8.77E-05	7.54E-05	6.45E-04	7.45E-03
2.87E-04	5.26E-03	3.83E-03	1.26E-04	8.78E-04	8.78E-04	1.13E-02	2.87E-04	5.26E-03	3.83E-03	1.26E-04	1.04E-04	8.78E-04	1.05E-02
3.46E-04	5.98E-03	5.46E-03	1.64E-04	1.09E-03	1.09E-03	1.41E-02	3.46E-04	5.98E-03	5.46E-03	1.64E-04	1.26E-04	1.09E-03	1.32E-02
3.90E-04	5.65E-03	6.06E-03	1.93E-04	1.17E-03	1.17E-03	1.46E-02	3.90E-04	5.65E-03	6.06E-03	1.93E-04	1.40E-04	1.17E-03	1.36E-02
6.46E-04	7.09E-03	1.59E-02	2.84E-04	3.37E-03	3.37E-03	3.07E-02	6.46E-04	7.09E-03	1.59E-02	2.84E-04	1.77E-04	3.37E-03	2.75E-02
1.28E-03	7.03E-03	3.28E-02	4.25E-04	4.66E-03	4.66E-03	5.08E-02	1.28E-03	7.03E-03	3.28E-02	4.25E-04	2.30E-04	4.66E-03	4.64E-02
5.10E-03	7.04E-03	1.90E-01	7.26E-04	4.69E-03	4.69E-03	2.12E-01	5.10E-03	7.04E-03	1.90E-01	7.26E-04	3.18E-04	4.69E-03	2.08E-01
1.99E-03	6.89E-03	1.55E-01	2.40E-03	3.81E-03	3.81E-03	1.74E-01	1.99E-03	6.89E-03	1.55E-01	2.40E-03	4.60E-04	3.81E-03	1.71E-01
5.74E-03	6.31E-03	5.15E-02	9.35E-03	2.96E-03	2.96E-03	7.89E-02	5.74E-03	6.31E-03	5.15E-02	9.35E-03	5.55E-04	2.96E-03	7.65E-02
3.74E-03	6.12E-03	3.30E-02	3.82E-03	2.53E-03	2.53E-03	5.17E-02	3.74E-03	6.12E-03	3.30E-02	3.82E-03	4.62E-04	2.53E-03	4.96E-02
1.63E-03	5.82E-03	2.47E-02	1.86E-03	2.45E-03	2.45E-03	3.89E-02	1.63E-03	5.82E-03	2.47E-02	1.86E-03	5.49E-04	2.45E-03	3.70E-02
1.09E-03	5.67E-03	1.92E-02	1.19E-03	2.31E-03	2.31E-03	3.18E-02	1.09E-03	5.67E-03	1.92E-02	1.19E-03	5.60E-04	2.31E-03	3.00E-02
8.36E-04	5.51E-03	1.57E-02	8.66E-04	2.18E-03	2.18E-03	2.73E-02	8.36E-04	5.51E-03	1.57E-02	8.66E-04	5.23E-04	2.18E-03	2.56E-02
6.97E-04	5.47E-03	1.36E-02	6.93E-04	2.08E-03	2.08E-03	2.46E-02	6.97E-04	5.47E-03	1.36E-02	6.93E-04	4.90E-04	2.08E-03	2.30E-02
6.28E-04	5.66E-03	1.31E-02	6.31E-04	2.18E-03	2.18E-03	2.44E-02	6.28E-04	5.66E-03	1.31E-02	6.31E-04	5.10E-04	2.18E-03	2.27E-02
5.80E-04	5.63E-03	1.26E-02	5.81E-04	2.19E-03	2.19E-03	2.38E-02	5.80E-04	5.63E-03	1.26E-02	5.81E-04	5.18E-04	2.19E-03	2.21E-02
5.51E-04	5.52E-03	1.22E-02	5.39E-04	2.23E-03	2.23E-03	2.33E-02	5.51E-04	5.52E-03	1.22E-02	5.39E-04	5.19E-04	2.23E-03	2.16E-02
5.34E-04	5.46E-03	1.20E-02	5.06E-04	2.28E-03	2.28E-03	2.31E-02	5.34E-04	5.46E-03	1.20E-02	5.06E-04	5.15E-04	2.28E-03	2.13E-02
5.11E-04	5.33E-03	1.14E-02	4.65E-04	2.28E-03	2.28E-03	2.23E-02	5.11E-04	5.33E-03	1.14E-02	4.65E-04	4.90E-04	2.28E-03	2.05E-02
4.78E-04	5.06E-03	1.03E-02	4.15E-04	2.15E-03	2.15E-03	2.05E-02	4.78E-04	5.06E-03	1.03E-02	4.15E-04	4.45E-04	2.15E-03	1.88E-02
4.07E-04	4.29E-03	7.75E-03	3.16E-04	1.69E-03	1.69E-03	1.61E-02	4.07E-04	4.29E-03	7.75E-03	3.16E-04	3.34E-04	1.69E-03	1.48E-02
3.39E-04	3.37E-03	5.66E-03	2.21E-04	1.35E-03	1.35E-03	1.23E-02	3.39E-04	3.37E-03	5.66E-03	2.21E-04	2.35E-04	1.35E-03	1.12E-02
3.47E-04	3.58E-03	5.96E-03	2.32E-04	1.45E-03	1.45E-03	1.30E-02	3.47E-04	3.58E-03	5.96E-03	2.32E-04	2.49E-04	1.45E-03	1.18E-02
4.05E-04	4.46E-03	8.29E-03	3.09E-04	1.99E-03	1.99E-03	1.74E-02	4.05E-04	4.46E-03	8.29E-03	3.09E-04	3.42E-04	1.99E-03	1.58E-02
3.99E-04	4.40E-03	8.12E-03	2.94E-04	1.99E-03	1.99E-03	1.72E-02	3.99E-04	4.40E-03	8.12E-03	2.94E-04	3.26E-04	1.99E-03	1.55E-02
3.83E-04	4.24E-03	7.57E-03	2.72E-04	1.95E-03	1.95E-03	1.64E-02	3.83E-04	4.24E-03	7.57E-03	2.72E-04	3.00E-04	1.95E-03	1.47E-02
3.65E-04	4.04E-03	6.93E-03	2.48E-04	1.87E-03	1.87E-03	1.53E-02	3.65E-04	4.04E-03	6.93E-03	2.48E-04	2.71E-04	1.87E-03	1.37E-02

3.51E-04	3.86E-03	6.40E-03	2.27E-04	1.78E-03	1.78E-03	1.44E-02	3.51E-04	3.86E-03	6.40E-03	2.27E-04	2.48E-04	1.78E-03	1.29E-02
3.08E-04	3.29E-03	4.94E-03	1.77E-04	1.46E-03	1.46E-03	1.16E-02	3.08E-04	3.29E-03	4.94E-03	1.77E-04	1.90E-04	1.46E-03	1.04E-02
2.66E-04	2.60E-03	3.67E-03	1.29E-04	1.18E-03	1.18E-03	9.02E-03	2.66E-04	2.60E-03	3.67E-03	1.29E-04	1.37E-04	1.18E-03	7.98E-03
2.39E-04	2.14E-03	2.97E-03	1.01E-04	1.03E-03	1.03E-03	7.52E-03	2.39E-04	2.14E-03	2.97E-03	1.01E-04	1.08E-04	1.03E-03	6.60E-03
2.24E-04	1.90E-03	2.58E-03	8.65E-05	9.57E-04	9.57E-04	6.71E-03	2.24E-04	1.90E-03	2.58E-03	8.65E-05	9.21E-05	9.57E-04	5.84E-03
2.04E-04	1.56E-03	2.11E-03	6.90E-05	8.53E-04	8.53E-04	5.65E-03	2.04E-04	1.56E-03	2.11E-03	6.90E-05	7.38E-05	8.53E-04	4.87E-03
1.92E-04	1.37E-03	1.83E-03	5.88E-05	7.85E-04	7.85E-04	5.02E-03	1.92E-04	1.37E-03	1.83E-03	5.88E-05	6.31E-05	7.85E-04	4.30E-03
1.89E-04	1.34E-03	1.73E-03	5.51E-05	7.65E-04	7.65E-04	4.84E-03	1.89E-04	1.34E-03	1.73E-03	5.51E-05	5.90E-05	7.65E-04	4.13E-03
1.95E-04	1.51E-03	1.85E-03	5.92E-05	8.13E-04	8.13E-04	5.23E-03	1.95E-04	1.51E-03	1.85E-03	5.92E-05	6.27E-05	8.13E-04	4.48E-03
1.92E-04	1.50E-03	1.77E-03	5.66E-05	8.03E-04	8.03E-04	5.13E-03	1.92E-04	1.50E-03	1.77E-03	5.66E-05	6.01E-05	8.03E-04	4.39E-03
1.13E-04	1.80E-03	5.52E-04	1.79E-05	2.31E-04	2.31E-04	2.94E-03	1.13E-04	1.80E-03	5.52E-04	1.79E-05	1.69E-05	2.31E-04	2.73E-03
1.15E-04	1.87E-03	5.79E-04	1.88E-05	2.39E-04	2.39E-04	3.06E-03	1.15E-04	1.87E-03	5.79E-04	1.88E-05	1.78E-05	2.39E-04	2.84E-03
1.19E-04	2.02E-03	6.31E-04	2.04E-05	2.56E-04	2.56E-04	3.30E-03	1.19E-04	2.02E-03	6.31E-04	2.04E-05	1.92E-05	2.56E-04	3.06E-03
1.21E-04	2.08E-03	6.61E-04	2.14E-05	2.65E-04	2.65E-04	3.42E-03	1.21E-04	2.08E-03	6.61E-04	2.14E-05	2.01E-05	2.65E-04	3.17E-03
1.27E-04	2.26E-03	7.37E-04	2.35E-05	2.89E-04	2.89E-04	3.72E-03	1.27E-04	2.26E-03	7.37E-04	2.35E-05	2.20E-05	2.89E-04	3.46E-03
1.31E-04	2.40E-03	8.05E-04	2.55E-05	3.09E-04	3.09E-04	3.98E-03	1.31E-04	2.40E-03	8.05E-04	2.55E-05	2.38E-05	3.09E-04	3.69E-03
1.35E-04	2.50E-03	8.67E-04	2.75E-05	3.31E-04	3.31E-04	4.20E-03	1.35E-04	2.50E-03	8.67E-04	2.75E-05	2.57E-05	3.31E-04	3.89E-03
1.27E-04	2.13E-03	7.45E-04	2.50E-05	2.92E-04	2.92E-04	3.61E-03	1.27E-04	2.13E-03	7.45E-04	2.50E-05	2.33E-05	2.92E-04	3.34E-03
1.01E-04	8.22E-04	3.97E-04	1.28E-05	1.98E-04	1.98E-04	1.73E-03	1.01E-04	8.22E-04	3.97E-04	1.28E-05	1.23E-05	1.98E-04	1.54E-03
9.67E-05	5.01E-04	3.23E-04	9.60E-06	1.78E-04	1.78E-04	1.29E-03	9.67E-05	5.01E-04	3.23E-04	9.60E-06	9.61E-06	1.78E-04	1.12E-03
1.03E-04	6.23E-04	3.77E-04	1.15E-05	1.97E-04	1.97E-04	1.51E-03	1.03E-04	6.23E-04	3.77E-04	1.15E-05	1.13E-05	1.97E-04	1.32E-03
1.05E-04	5.62E-04	3.78E-04	1.13E-05	2.01E-04	2.01E-04	1.46E-03	1.05E-04	5.62E-04	3.78E-04	1.13E-05	1.14E-05	2.01E-04	1.27E-03
1.11E-04	6.29E-04	4.22E-04	1.28E-05	2.18E-04	2.18E-04	1.61E-03	1.11E-04	6.29E-04	4.22E-04	1.28E-05	1.27E-05	2.18E-04	1.41E-03
1.23E-04	9.11E-04	5.42E-04	1.72E-05	2.54E-04	2.54E-04	2.10E-03	1.23E-04	9.11E-04	5.42E-04	1.72E-05	1.65E-05	2.54E-04	1.86E-03
1.37E-04	1.27E-03	6.98E-04	2.30E-05	2.98E-04	2.98E-04	2.72E-03	1.37E-04	1.27E-03	6.98E-04	2.30E-05	2.15E-05	2.98E-04	2.45E-03
1.52E-04	1.65E-03	8.84E-04	3.02E-05	3.50E-04	3.50E-04	3.41E-03	1.52E-04	1.65E-03	8.84E-04	3.02E-05	2.76E-05	3.50E-04	3.09E-03
1.71E-04	2.17E-03	1.20E-03	4.28E-05	4.32E-04	4.32E-04	4.44E-03	1.71E-04	2.17E-03	1.20E-03	4.28E-05	3.82E-05	4.32E-04	4.05E-03
1.92E-04	2.65E-03	1.59E-03	5.81E-05	5.25E-04	5.25E-04	5.54E-03	1.92E-04	2.65E-03	1.59E-03	5.81E-05	5.07E-05	5.25E-04	5.07E-03
2.27E-04	3.55E-03	2.45E-03	8.99E-05	7.02E-04	7.02E-04	7.72E-03	2.27E-04	3.55E-03	2.45E-03	8.99E-05	7.68E-05	7.02E-04	7.09E-03
2.75E-04	4.61E-03	4.23E-03	1.33E-04	1.02E-03	1.02E-03	1.13E-02	2.75E-04	4.61E-03	4.23E-03	1.33E-04	1.10E-04	1.02E-03	1.04E-02
3.36E-04	5.37E-03	6.97E-03	1.78E-04	1.61E-03	1.61E-03	1.61E-02	3.36E-04	5.37E-03	6.97E-03	1.78E-04	1.41E-04	1.61E-03	1.46E-02
4.04E-04	5.64E-03	1.01E-02	2.19E-04	2.62E-03	2.62E-03	2.16E-02	4.04E-04	5.64E-03	1.01E-02	2.19E-04	1.71E-04	2.62E-03	1.92E-02
4.93E-04	5.62E-03	1.38E-02	2.65E-04	5.33E-03	5.33E-03	3.08E-02	4.93E-04	5.62E-03	1.38E-02	2.65E-04	2.01E-04	5.33E-03	2.57E-02
6.65E-04	5.58E-03	2.07E-02	3.58E-04	2.22E-02	2.22E-02	7.17E-02	6.65E-04	5.58E-03	2.07E-02	3.58E-04	2.59E-04	2.22E-02	4.98E-02
1.24E-03	5.60E-03	3.44E-02	5.11E-04	2.98E-02	2.98E-02	1.01E-01	1.24E-03	5.60E-03	3.44E-02	5.11E-04	3.52E-04	2.98E-02	7.19E-02
6.67E-03	5.64E-03	1.44E-01	8.61E-04	1.35E-02	1.35E-02	1.84E-01	6.67E-03	5.64E-03	1.44E-01	8.61E-04	5.86E-04	1.35E-02	1.71E-01
1.80E-03	5.63E-03	1.96E-01	2.11E-03	8.11E-03	8.11E-03	2.21E-01	1.80E-03	5.63E-03	1.96E-01	2.11E-03	1.69E-03	8.11E-03	2.15E-01
2.25E-03	5.53E-03	9.04E-02	6.72E-03	2.25E-02	2.25E-02	1.50E-01	2.25E-03	5.53E-03	9.04E-02	6.72E-03	1.67E-02	2.25E-02	1.44E-01
4.00E-03	5.44E-03	5.26E-02	5.32E-03	1.03E-02	1.03E-02	8.80E-02	4.00E-03	5.44E-03	5.26E-02	5.32E-03	6.11E-03	1.03E-02	8.38E-02
1.69E-03	5.16E-03	3.76E-02	2.55E-03	6.49E-03	6.49E-03	6.00E-02	1.69E-03	5.16E-03	3.76E-02	2.55E-03	2.91E-03	6.49E-03	5.64E-02
1.14E-03	4.95E-03	2.75E-02	1.61E-03	4.79E-03	4.79E-03	4.48E-02	1.14E-03	4.95E-03	2.75E-02	1.61E-03	1.77E-03	4.79E-03	4.17E-02
8.81E-04	4.79E-03	2.16E-02	1.16E-03	3.94E-03	3.94E-03	3.63E-02	8.81E-04	4.79E-03	2.16E-02	1.16E-03	1.26E-03	3.94E-03	3.37E-02
7.81E-04	4.98E-03	2.02E-02	9.98E-04	3.85E-03	3.85E-03	3.47E-02	7.81E-04	4.98E-03	2.02E-02	9.98E-04	1.13E-03	3.85E-03	3.19E-02
7.03E-04	5.14E-03	1.89E-02	8.75E-04	3.69E-03	3.69E-03	3.30E-02	7.03E-04	5.14E-03	1.89E-02	8.75E-04	1.02E-03	3.69E-03	3.03E-02
6.42E-04	5.18E-03	1.78E-02	7.76E-04	3.57E-03	3.57E-03	3.15E-02	6.42E-04	5.18E-03	1.78E-02	7.76E-04	9.23E-04	3.57E-03	2.89E-02
5.96E-04	5.09E-03	1.67E-02	6.93E-04	3.46E-03	3.46E-03	3.00E-02	5.96E-04	5.09E-03	1.67E-02	6.93E-04	8.33E-04	3.46E-03	2.74E-02
5.58E-04	4.89E-03	1.55E-02	6.19E-04	3.32E-03	3.32E-03	2.82E-02	5.58E-04	4.89E-03	1.55E-02	6.19E-04	7.48E-04	3.32E-03	2.56E-02
5.23E-04	4.66E-03	1.40E-02	5.49E-04	3.05E-03	3.05E-03	2.58E-02	5.23E-04	4.66E-03	1.40E-02	5.49E-04	6.59E-04	3.05E-03	2.34E-02
5.03E-04	4.58E-03	1.33E-02	5.03E-04	3.01E-03	3.01E-03	2.49E-02	5.03E-04	4.58E-03	1.33E-02	5.03E-04	6.01E-04	3.01E-03	2.25E-02
4.00E-04	3.62E-03	8.57E-03	3.43E-04	2.09E-03	2.09E-03	1.71E-02	4.00E-04	3.62E-03	8.57E-03	3.43E-04	3.92E-04	2.09E-03	1.54E-02
3.65E-04	3.27E-03	7.30E-03	2.84E-04	1.83E-03	1.83E-03	1.49E-02	3.65E-04	3.27E-03	7.30E-03	2.84E-04	3.19E-04	1.83E-03	1.34E-02
4.31E-04	4.09E-03	1.02E-02	3.71E-04	2.54E-03	2.54E-03	2.02E-02	4.31E-04	4.09E-03	1.02E-02	3.71E-04	4.26E-04	2.54E-03	1.81E-02
4.19E-04	4.05E-03	9.75E-03	3.45E-04	2.55E-03	2.55E-03	1.97E-02	4.19E-04	4.05E-03	9.75E-03	3.45E-04	3.93E-04	2.55E-03	1.75E-02
4.00E-04	3.92E-03	8.93E-03	3.14E-04	2.43E-03	2.43E-03	1.84E-02	4.00E-04	3.92E-03	8.93E-03	3.14E-04	3.53E-04	2.43E-03	1.63E-02

3.72E-04	3.67E-03	7.72E-03	2.74E-04	2.19E-03	2.19E-03	1.64E-02	3.72E-04	3.67E-03	7.72E-03	2.74E-04	3.04E-04	2.19E-03	1.45E-02
3.28E-04	3.17E-03	5.95E-03	2.14E-04	1.81E-03	1.81E-03	1.33E-02	3.28E-04	3.17E-03	5.95E-03	2.14E-04	2.34E-04	1.81E-03	1.17E-02
2.82E-04	2.57E-03	4.44E-03	1.56E-04	1.45E-03	1.45E-03	1.03E-02	2.82E-04	2.57E-03	4.44E-03	1.56E-04	1.68E-04	1.45E-03	9.06E-03
2.44E-04	1.97E-03	3.30E-03	1.12E-04	1.19E-03	1.19E-03	8.01E-03	2.44E-04	1.97E-03	3.30E-03	1.12E-04	1.21E-04	1.19E-03	6.94E-03
2.19E-04	1.57E-03	2.60E-03	8.56E-05	1.03E-03	1.03E-03	6.54E-03	2.19E-04	1.57E-03	2.60E-03	8.56E-05	9.25E-05	1.03E-03	5.60E-03
2.01E-04	1.32E-03	2.15E-03	6.93E-05	9.19E-04	9.19E-04	5.58E-03	2.01E-04	1.32E-03	2.15E-03	6.93E-05	7.48E-05	9.19E-04	4.74E-03
1.97E-04	1.30E-03	2.02E-03	6.45E-05	8.95E-04	8.95E-04	5.37E-03	1.97E-04	1.30E-03	2.02E-03	6.45E-05	6.97E-05	8.95E-04	4.55E-03
1.93E-04	1.30E-03	1.91E-03	6.09E-05	8.74E-04	8.74E-04	5.22E-03	1.93E-04	1.30E-03	1.91E-03	6.09E-05	6.53E-05	8.74E-04	4.41E-03
1.94E-04	1.35E-03	1.89E-03	5.99E-05	8.81E-04	8.81E-04	5.26E-03	1.94E-04	1.35E-03	1.89E-03	5.99E-05	6.42E-05	8.81E-04	4.44E-03
1.97E-04	1.46E-03	1.93E-03	6.14E-05	9.04E-04	9.04E-04	5.46E-03	1.97E-04	1.46E-03	1.93E-03	6.14E-05	6.51E-05	9.04E-04	4.62E-03
2.01E-04	1.60E-03	1.99E-03	6.37E-05	9.37E-04	9.37E-04	5.73E-03	2.01E-04	1.60E-03	1.99E-03	6.37E-05	6.74E-05	9.37E-04	4.86E-03
1.11E-04	1.75E-03	5.68E-04	1.83E-05	2.38E-04	2.38E-04	2.93E-03	1.11E-04	1.75E-03	5.68E-04	1.83E-05	1.68E-05	2.38E-04	2.70E-03
1.13E-04	1.83E-03	5.95E-04	1.93E-05	2.47E-04	2.47E-04	3.05E-03	1.13E-04	1.83E-03	5.95E-04	1.93E-05	1.76E-05	2.47E-04	2.83E-03
1.18E-04	2.00E-03	6.60E-04	2.12E-05	2.70E-04	2.70E-04	3.34E-03	1.18E-04	2.00E-03	6.60E-04	2.12E-05	1.92E-05	2.70E-04	3.09E-03
1.19E-04	2.03E-03	6.77E-04	2.20E-05	2.73E-04	2.73E-04	3.39E-03	1.19E-04	2.03E-03	6.77E-04	2.20E-05	1.98E-05	2.73E-04	3.14E-03
1.25E-04	2.22E-03	7.65E-04	2.45E-05	3.04E-04	3.04E-04	3.74E-03	1.25E-04	2.22E-03	7.65E-04	2.45E-05	2.19E-05	3.04E-04	3.46E-03
1.30E-04	2.35E-03	8.36E-04	2.67E-05	3.28E-04	3.28E-04	4.00E-03	1.30E-04	2.35E-03	8.36E-04	2.67E-05	2.37E-05	3.28E-04	3.69E-03
1.33E-04	2.42E-03	8.86E-04	2.85E-05	3.48E-04	3.48E-04	4.16E-03	1.33E-04	2.42E-03	8.86E-04	2.85E-05	2.54E-05	3.48E-04	3.84E-03
1.22E-04	1.94E-03	7.04E-04	2.46E-05	2.85E-04	2.85E-04	3.36E-03	1.22E-04	1.94E-03	7.04E-04	2.46E-05	2.20E-05	2.85E-04	3.09E-03
1.05E-04	1.11E-03	4.70E-04	1.63E-05	2.18E-04	2.18E-04	2.14E-03	1.05E-04	1.11E-03	4.70E-04	1.63E-05	1.51E-05	2.18E-04	1.93E-03
8.67E-05	3.22E-04	2.46E-04	7.06E-06	1.51E-04	1.51E-04	9.64E-04	8.67E-05	3.22E-04	2.46E-04	7.06E-06	7.34E-06	1.51E-04	8.20E-04
8.99E-05	3.39E-04	2.66E-04	7.63E-06	1.61E-04	1.61E-04	1.03E-03	8.99E-05	3.39E-04	2.66E-04	7.63E-06	7.90E-06	1.61E-04	8.72E-04
1.02E-04	6.07E-04	3.81E-04	1.17E-05	2.05E-04	2.05E-04	1.51E-03	1.02E-04	6.07E-04	3.81E-04	1.17E-05	1.15E-05	2.05E-04	1.32E-03
1.11E-04	7.73E-04	4.58E-04	1.46E-05	2.33E-04	2.33E-04	1.82E-03	1.11E-04	7.73E-04	4.58E-04	1.46E-05	1.41E-05	2.33E-04	1.60E-03
1.20E-04	9.91E-04	5.65E-04	1.84E-05	2.67E-04	2.67E-04	2.23E-03	1.20E-04	9.91E-04	5.65E-04	1.84E-05	1.72E-05	2.67E-04	1.98E-03
1.33E-04	1.32E-03	7.10E-04	2.43E-05	3.14E-04	3.14E-04	2.81E-03	1.33E-04	1.32E-03	7.10E-04	2.43E-05	2.24E-05	3.14E-04	2.52E-03
1.49E-04	1.74E-03	9.44E-04	3.33E-05	3.80E-04	3.80E-04	3.63E-03	1.49E-04	1.74E-03	9.44E-04	3.33E-05	2.96E-05	3.80E-04	3.28E-03
1.69E-04	2.28E-03	1.30E-03	4.75E-05	4.74E-04	4.74E-04	4.74E-03	1.69E-04	2.28E-03	1.30E-03	4.75E-05	4.14E-05	4.74E-04	4.31E-03
1.89E-04	2.72E-03	1.77E-03	6.49E-05	5.89E-04	5.89E-04	5.92E-03	1.89E-04	2.72E-03	1.77E-03	6.49E-05	5.59E-05	5.89E-04	5.39E-03
2.17E-04	3.30E-03	2.60E-03	9.19E-05	7.75E-04	7.75E-04	7.76E-03	2.17E-04	3.30E-03	2.60E-03	9.19E-05	7.84E-05	7.75E-04	7.06E-03
2.53E-04	3.92E-03	4.09E-03	1.29E-04	1.08E-03	1.08E-03	1.06E-02	2.53E-04	3.92E-03	4.09E-03	1.29E-04	1.08E-04	1.08E-03	9.58E-03
2.72E-04	3.90E-03	4.70E-03	1.54E-04	1.23E-03	1.23E-03	1.15E-02	2.72E-04	3.90E-03	4.70E-03	1.54E-04	1.27E-04	1.23E-03	1.04E-02
3.51E-04	4.62E-03	9.16E-03	2.13E-04	2.67E-03	2.67E-03	1.97E-02	3.51E-04	4.62E-03	9.16E-03	2.13E-04	1.74E-04	2.67E-03	1.72E-02
4.03E-04	4.63E-03	1.17E-02	2.45E-04	5.71E-03	5.71E-03	2.84E-02	4.03E-04	4.63E-03	1.17E-02	2.45E-04	2.04E-04	5.71E-03	2.29E-02
4.83E-04	4.66E-03	1.57E-02	3.10E-04	1.05E-02	1.05E-02	4.21E-02	4.83E-04	4.66E-03	1.57E-02	3.10E-04	2.69E-04	1.05E-02	3.19E-02
6.33E-04	4.75E-03	2.18E-02	4.06E-04	4.04E-02	4.04E-02	1.08E-01	6.33E-04	4.75E-03	2.18E-02	4.06E-04	3.72E-04	4.04E-02	6.83E-02
1.12E-03	4.74E-03	3.31E-02	5.63E-04	2.93E-02	2.93E-02	9.82E-02	1.12E-03	4.74E-03	3.31E-02	5.63E-04	5.35E-04	2.93E-02	6.94E-02
1.05E-02	4.86E-03	8.88E-02	8.75E-04	1.66E-02	1.66E-02	1.38E-01	1.05E-02	4.86E-03	8.88E-02	8.75E-04	9.51E-04	1.66E-02	1.23E-01
2.09E-03	4.86E-03	2.70E-01	1.78E-03	1.25E-02	1.25E-02	3.03E-01	2.09E-03	4.86E-03	2.70E-01	1.78E-03	2.05E-03	1.25E-02	2.93E-01
2.20E-03	4.79E-03	1.21E-01	7.64E-03	2.41E-02	2.41E-02	1.83E-01	2.20E-03	4.79E-03	1.21E-01	7.64E-03	1.53E-02	2.41E-02	1.75E-01
4.43E-03	4.79E-03	6.60E-02	6.73E-03	1.64E-02	1.64E-02	1.15E-01	4.43E-03	4.79E-03	6.60E-02	6.73E-03	9.64E-03	1.64E-02	1.08E-01
1.70E-03	4.48E-03	4.31E-02	2.73E-03	9.08E-03	9.08E-03	7.02E-02	1.70E-03	4.48E-03	4.31E-02	2.73E-03	3.92E-03	9.08E-03	6.51E-02
1.17E-03	4.34E-03	3.33E-02	1.83E-03	6.98E-03	6.98E-03	5.46E-02	1.17E-03	4.34E-03	3.33E-02	1.83E-03	2.53E-03	6.98E-03	5.02E-02
9.81E-04	4.45E-03	2.99E-02	1.48E-03	6.32E-03	6.32E-03	4.95E-02	9.81E-04	4.45E-03	2.99E-02	1.48E-03	2.03E-03	6.32E-03	4.52E-02
8.58E-04	4.52E-03	2.72E-02	1.23E-03	5.80E-03	5.80E-03	4.54E-02	8.58E-04	4.52E-03	2.72E-02	1.23E-03	1.67E-03	5.80E-03	4.13E-02
7.61E-04	4.63E-03	2.45E-02	1.04E-03	5.29E-03	5.29E-03	4.15E-02	7.61E-04	4.63E-03	2.45E-02	1.04E-03	1.39E-03	5.29E-03	3.76E-02
6.87E-04	4.69E-03	2.22E-02	8.93E-04	4.91E-03	4.91E-03	3.83E-02	6.87E-04	4.69E-03	2.22E-02	8.93E-04	1.18E-03	4.91E-03	3.46E-02
6.28E-04	4.61E-03	2.02E-02	7.75E-04	4.54E-03	4.54E-03	3.52E-02	6.28E-04	4.61E-03	2.02E-02	7.75E-04	1.00E-03	4.54E-03	3.17E-02
5.81E-04	4.46E-03	1.83E-02	6.80E-04	4.21E-03	4.21E-03	3.24E-02	5.81E-04	4.46E-03	1.83E-02	6.80E-04	8.60E-04	4.21E-03	2.91E-02
5.47E-04	4.33E-03	1.67E-02	6.02E-04	4.00E-03	4.00E-03	3.02E-02	5.47E-04	4.33E-03	1.67E-02	6.02E-04	7.44E-04	4.00E-03	2.69E-02
5.11E-04	4.10E-03	1.49E-02	5.34E-04	3.63E-03	3.63E-03	2.73E-02	5.11E-04	4.10E-03	1.49E-02	5.34E-04	6.41E-04	3.63E-03	2.43E-02
4.61E-04	3.75E-03	1.24E-02	4.55E-04	3.14E-03	3.14E-03	2.33E-02	4.61E-04	3.75E-03	1.24E-02	4.55E-04	5.32E-04	3.14E-03	2.07E-02
4.65E-04	3.91E-03	1.25E-02	4.30E-04	3.33E-03	3.33E-03	2.40E-02	4.65E-04	3.91E-03	1.25E-02	4.30E-04	4.97E-04	3.33E-03	2.11E-02
4.39E-04	3.75E-03	1.12E-02	3.84E-04	3.09E-03	3.09E-03	2.19E-02	4.39E-04	3.75E-03	1.12E-02	3.84E-04	4.35E-04	3.09E-03	1.93E-02

4.15E-04	3.62E-03	1.00E-02	3.44E-04	2.91E-03	2.91E-03	2.02E-02	4.15E-04	3.62E-03	1.00E-02	3.44E-04	3.84E-04	2.91E-03	1.77E-02
3.62E-04	3.16E-03	7.64E-03	2.71E-04	2.35E-03	2.35E-03	1.61E-02	3.62E-04	3.16E-03	7.64E-03	2.71E-04	2.97E-04	2.35E-03	1.41E-02
3.06E-04	2.54E-03	5.44E-03	1.91E-04	1.81E-03	1.81E-03	1.21E-02	3.06E-04	2.54E-03	5.44E-03	1.91E-04	2.05E-04	1.81E-03	1.05E-02
2.60E-04	1.93E-03	3.89E-03	1.32E-04	1.44E-03	1.44E-03	9.09E-03	2.60E-04	1.93E-03	3.89E-03	1.32E-04	1.41E-04	1.44E-03	7.79E-03
2.30E-04	1.53E-03	2.97E-03	9.73E-05	1.22E-03	1.22E-03	7.27E-03	2.30E-04	1.53E-03	2.97E-03	9.73E-05	1.04E-04	1.22E-03	6.15E-03
2.02E-04	1.15E-03	2.17E-03	6.89E-05	9.94E-04	9.94E-04	5.57E-03	2.02E-04	1.15E-03	2.17E-03	6.89E-05	7.41E-05	9.94E-04	4.65E-03
1.98E-04	1.16E-03	2.05E-03	6.48E-05	9.71E-04	9.71E-04	5.42E-03	1.98E-04	1.16E-03	2.05E-03	6.48E-05	6.95E-05	9.71E-04	4.52E-03
1.96E-04	1.19E-03	1.97E-03	6.21E-05	9.57E-04	9.57E-04	5.34E-03	1.96E-04	1.19E-03	1.97E-03	6.21E-05	6.62E-05	9.57E-04	4.45E-03
1.97E-04	1.28E-03	1.98E-03	6.24E-05	9.75E-04	9.75E-04	5.48E-03	1.97E-04	1.28E-03	1.98E-03	6.24E-05	6.62E-05	9.75E-04	4.57E-03
2.00E-04	1.39E-03	2.01E-03	6.33E-05	9.95E-04	9.95E-04	5.65E-03	2.00E-04	1.39E-03	2.01E-03	6.33E-05	6.69E-05	9.95E-04	4.72E-03
2.04E-04	1.52E-03	2.07E-03	6.56E-05	1.03E-03	1.03E-03	5.92E-03	2.04E-04	1.52E-03	2.07E-03	6.56E-05	6.88E-05	1.03E-03	4.96E-03
2.15E-04	1.78E-03	2.28E-03	7.30E-05	1.10E-03	1.10E-03	6.55E-03	2.15E-04	1.78E-03	2.28E-03	7.30E-05	7.61E-05	1.10E-03	5.52E-03
1.06E-04	1.69E-03	5.83E-04	1.90E-05	2.41E-04	2.41E-04	2.88E-03	1.06E-04	1.69E-03	5.83E-04	1.90E-05	1.69E-05	2.41E-04	2.65E-03
1.09E-04	1.75E-03	6.07E-04	1.99E-05	2.50E-04	2.50E-04	2.99E-03	1.09E-04	1.75E-03	6.07E-04	1.99E-05	1.77E-05	2.50E-04	2.76E-03
1.13E-04	1.87E-03	6.55E-04	2.14E-05	2.67E-04	2.67E-04	3.19E-03	1.13E-04	1.87E-03	6.55E-04	2.14E-05	1.91E-05	2.67E-04	2.94E-03
1.18E-04	1.99E-03	7.17E-04	2.33E-05	2.90E-04	2.90E-04	3.43E-03	1.18E-04	1.99E-03	7.17E-04	2.33E-05	2.08E-05	2.90E-04	3.16E-03
1.22E-04	2.10E-03	7.73E-04	2.50E-05	3.09E-04	3.09E-04	3.64E-03	1.22E-04	2.10E-03	7.73E-04	2.50E-05	2.24E-05	3.09E-04	3.35E-03
1.28E-04	2.28E-03	8.74E-04	2.77E-05	3.47E-04	3.47E-04	4.00E-03	1.28E-04	2.28E-03	8.74E-04	2.77E-05	2.49E-05	3.47E-04	3.68E-03
1.28E-04	2.23E-03	8.62E-04	2.82E-05	3.38E-04	3.38E-04	3.92E-03	1.28E-04	2.23E-03	8.62E-04	2.82E-05	2.54E-05	3.38E-04	3.61E-03
1.24E-04	2.08E-03	8.08E-04	2.78E-05	3.24E-04	3.24E-04	3.69E-03	1.24E-04	2.08E-03	8.08E-04	2.78E-05	2.52E-05	3.24E-04	3.39E-03
1.15E-04	1.66E-03	6.47E-04	2.34E-05	2.73E-04	2.73E-04	2.99E-03	1.15E-04	1.66E-03	6.47E-04	2.34E-05	2.14E-05	2.73E-04	2.74E-03
1.03E-04	1.04E-03	4.64E-04	1.62E-05	2.20E-04	2.20E-04	2.07E-03	1.03E-04	1.04E-03	4.64E-04	1.62E-05	1.52E-05	2.20E-04	1.86E-03
1.03E-04	9.34E-04	4.48E-04	1.52E-05	2.19E-04	2.19E-04	1.94E-03	1.03E-04	9.34E-04	4.48E-04	1.52E-05	1.44E-05	2.19E-04	1.74E-03
1.06E-04	9.27E-04	4.67E-04	1.57E-05	2.30E-04	2.30E-04	1.98E-03	1.06E-04	9.27E-04	4.67E-04	1.57E-05	1.49E-05	2.30E-04	1.76E-03
1.11E-04	9.68E-04	5.08E-04	1.71E-05	2.47E-04	2.47E-04	2.10E-03	1.11E-04	9.68E-04	5.08E-04	1.71E-05	1.61E-05	2.47E-04	1.87E-03
1.08E-04	6.78E-04	4.35E-04	1.38E-05	2.33E-04	2.33E-04	1.70E-03	1.08E-04	6.78E-04	4.35E-04	1.38E-05	1.33E-05	2.33E-04	1.48E-03
1.09E-04	5.41E-04	4.08E-04	1.25E-05	2.30E-04	2.30E-04	1.53E-03	1.09E-04	5.41E-04	4.08E-04	1.25E-05	1.21E-05	2.30E-04	1.31E-03
1.33E-04	1.30E-03	7.50E-04	2.61E-05	3.36E-04	3.36E-04	2.88E-03	1.33E-04	1.30E-03	7.50E-04	2.61E-05	2.38E-05	3.36E-04	2.56E-03
1.48E-04	1.68E-03	9.87E-04	3.59E-05	4.11E-04	4.11E-04	3.67E-03	1.48E-04	1.68E-03	9.87E-04	3.59E-05	3.17E-05	4.11E-04	3.29E-03
1.77E-04	2.50E-03	1.69E-03	6.41E-05	5.93E-04	5.93E-04	5.61E-03	1.77E-04	2.50E-03	1.69E-03	6.41E-05	5.44E-05	5.93E-04	5.07E-03
2.07E-04	3.20E-03	2.81E-03	9.74E-05	8.38E-04	8.38E-04	7.99E-03	2.07E-04	3.20E-03	2.81E-03	9.74E-05	8.18E-05	8.38E-04	7.23E-03
2.37E-04	3.61E-03	4.12E-03	1.28E-04	1.14E-03	1.14E-03	1.04E-02	2.37E-04	3.61E-03	4.12E-03	1.28E-04	1.07E-04	1.14E-03	9.34E-03
2.72E-04	3.87E-03	5.93E-03	1.63E-04	1.66E-03	1.66E-03	1.36E-02	2.72E-04	3.87E-03	5.93E-03	1.63E-04	1.38E-04	1.66E-03	1.20E-02
3.15E-04	4.03E-03	8.29E-03	1.95E-04	2.96E-03	2.96E-03	1.87E-02	3.15E-04	4.03E-03	8.29E-03	1.95E-04	1.71E-04	2.96E-03	1.60E-02
3.51E-04	4.00E-03	1.01E-02	2.19E-04	5.35E-03	5.35E-03	2.53E-02	3.51E-04	4.00E-03	1.01E-02	2.19E-04	2.02E-04	5.35E-03	2.02E-02
3.98E-04	4.01E-03	1.27E-02	2.68E-04	8.51E-03	8.51E-03	3.44E-02	3.98E-04	4.01E-03	1.27E-02	2.68E-04	2.54E-04	8.51E-03	2.61E-02
4.67E-04	4.09E-03	1.62E-02	3.35E-04	2.77E-02	2.77E-02	7.65E-02	4.67E-04	4.09E-03	1.62E-02	3.35E-04	3.29E-04	2.77E-02	4.91E-02
6.03E-04	4.16E-03	2.18E-02	4.31E-04	5.80E-02	5.80E-02	1.43E-01	6.03E-04	4.16E-03	2.18E-02	4.31E-04	4.57E-04	5.80E-02	8.54E-02
9.82E-04	4.26E-03	3.15E-02	5.64E-04	5.78E-02	5.78E-02	1.53E-01	9.82E-04	4.26E-03	3.15E-02	5.64E-04	6.51E-04	5.78E-02	9.57E-02
7.91E-03	4.38E-03	6.35E-02	8.12E-04	2.81E-02	2.81E-02	1.33E-01	7.91E-03	4.38E-03	6.35E-02	8.12E-04	9.81E-04	2.81E-02	1.06E-01
2.58E-03	4.41E-03	2.46E-01	1.49E-03	1.88E-02	1.88E-02	2.92E-01	2.58E-03	4.41E-03	2.46E-01	1.49E-03	1.79E-03	1.88E-02	2.75E-01
2.17E-03	4.34E-03	1.55E-01	5.67E-03	2.14E-02	2.14E-02	2.09E-01	2.17E-03	4.34E-03	1.55E-01	5.67E-03	9.17E-03	2.14E-02	1.97E-01
5.03E-03	4.26E-03	6.76E-02	7.17E-03	1.92E-02	1.92E-02	1.22E-01	5.03E-03	4.26E-03	6.76E-02	7.17E-03	1.09E-02	1.92E-02	1.14E-01
1.90E-03	4.19E-03	5.16E-02	3.32E-03	1.18E-02	1.18E-02	8.47E-02	1.90E-03	4.19E-03	5.16E-02	3.32E-03	4.83E-03	1.18E-02	7.77E-02
1.31E-03	4.18E-03	4.32E-02	2.20E-03	9.61E-03	9.61E-03	7.01E-02	1.31E-03	4.18E-03	4.32E-02	2.20E-03	3.23E-03	9.61E-03	6.38E-02
1.06E-03	4.23E-03	3.75E-02	1.65E-03	8.38E-03	8.38E-03	6.12E-02	1.06E-03	4.23E-03	3.75E-02	1.65E-03	2.40E-03	8.38E-03	5.52E-02
9.07E-04	4.21E-03	3.25E-02	1.31E-03	7.31E-03	7.31E-03	5.35E-02	9.07E-04	4.21E-03	3.25E-02	1.31E-03	1.85E-03	7.31E-03	4.81E-02
8.01E-04	4.32E-03	2.85E-02	1.08E-03	6.50E-03	6.50E-03	4.77E-02	8.01E-04	4.32E-03	2.85E-02	1.08E-03	1.46E-03	6.50E-03	4.26E-02
7.21E-04	4.33E-03	2.52E-02	9.05E-04	5.87E-03	5.87E-03	4.29E-02	7.21E-04	4.33E-03	2.52E-02	9.05E-04	1.17E-03	5.87E-03	3.82E-02
6.57E-04	4.28E-03	2.24E-02	7.76E-04	5.42E-03	5.42E-03	3.89E-02	6.57E-04	4.28E-03	2.24E-02	7.76E-04	9.67E-04	5.42E-03	3.45E-02
6.02E-04	4.18E-03	1.99E-02	6.73E-04	4.96E-03	4.96E-03	3.52E-02	6.02E-04	4.18E-03	1.99E-02	6.73E-04	8.10E-04	4.96E-03	3.11E-02
5.58E-04	4.02E-03	1.77E-02	5.91E-04	4.61E-03	4.61E-03	3.21E-02	5.58E-04	4.02E-03	1.77E-02	5.91E-04	6.89E-04	4.61E-03	2.81E-02
5.23E-04	3.88E-03	1.58E-02	5.23E-04	4.33E-03	4.33E-03	2.94E-02	5.23E-04	3.88E-03	1.58E-02	5.23E-04	5.94E-04	4.33E-03	2.57E-02
4.91E-04	3.73E-03	1.41E-02	4.64E-04	4.03E-03	4.03E-03	2.69E-02	4.91E-04	3.73E-03	1.41E-02	4.64E-04	5.15E-04	4.03E-03	2.33E-02

4.57E-04	3.55E-03	1.23E-02	4.09E-04	3.65E-03	3.65E-03	2.40E-02	4.57E-04	3.55E-03	1.23E-02	4.09E-04	4.45E-04	3.65E-03	2.08E-02
4.06E-04	3.23E-03	9.80E-03	3.37E-04	3.06E-03	3.06E-03	1.99E-02	4.06E-04	3.23E-03	9.80E-03	3.37E-04	3.61E-04	3.06E-03	1.72E-02
3.26E-04	2.48E-03	6.28E-03	2.18E-04	2.19E-03	2.19E-03	1.37E-02	3.26E-04	2.48E-03	6.28E-03	2.18E-04	2.29E-04	2.19E-03	1.17E-02
2.89E-04	2.09E-03	4.86E-03	1.64E-04	1.85E-03	1.85E-03	1.11E-02	2.89E-04	2.09E-03	4.86E-03	1.64E-04	1.72E-04	1.85E-03	9.42E-03
2.50E-04	1.61E-03	3.56E-03	1.16E-04	1.52E-03	1.52E-03	8.57E-03	2.50E-04	1.61E-03	3.56E-03	1.16E-04	1.22E-04	1.52E-03	7.18E-03
2.22E-04	1.29E-03	2.69E-03	8.50E-05	1.27E-03	1.27E-03	6.82E-03	2.22E-04	1.29E-03	2.69E-03	8.50E-05	8.97E-05	1.27E-03	5.64E-03
2.05E-04	1.13E-03	2.17E-03	6.78E-05	1.10E-03	1.10E-03	5.77E-03	2.05E-04	1.13E-03	2.17E-03	6.78E-05	7.16E-05	1.10E-03	4.74E-03
2.01E-04	1.15E-03	2.04E-03	6.33E-05	1.06E-03	1.06E-03	5.56E-03	2.01E-04	1.15E-03	2.04E-03	6.33E-05	6.66E-05	1.06E-03	4.57E-03
2.01E-04	1.22E-03	2.00E-03	6.20E-05	1.06E-03	1.06E-03	5.59E-03	2.01E-04	1.22E-03	2.00E-03	6.20E-05	6.53E-05	1.06E-03	4.60E-03
2.05E-04	1.37E-03	2.09E-03	6.51E-05	1.10E-03	1.10E-03	5.93E-03	2.05E-04	1.37E-03	2.09E-03	6.51E-05	6.80E-05	1.10E-03	4.90E-03
2.10E-04	1.52E-03	2.15E-03	6.75E-05	1.13E-03	1.13E-03	6.22E-03	2.10E-04	1.52E-03	2.15E-03	6.75E-05	7.05E-05	1.13E-03	5.16E-03
2.17E-04	1.73E-03	2.30E-03	7.27E-05	1.18E-03	1.18E-03	6.68E-03	2.17E-04	1.73E-03	2.30E-03	7.27E-05	7.52E-05	1.18E-03	5.58E-03
2.27E-04	1.99E-03	2.50E-03	7.98E-05	1.26E-03	1.26E-03	7.30E-03	2.27E-04	1.99E-03	2.50E-03	7.98E-05	8.21E-05	1.26E-03	6.13E-03
1.03E-04	1.65E-03	6.06E-04	1.94E-05	2.48E-04	2.48E-04	2.87E-03	1.03E-04	1.65E-03	6.06E-04	1.94E-05	1.73E-05	2.48E-04	2.64E-03
1.05E-04	1.69E-03	6.23E-04	2.02E-05	2.54E-04	2.54E-04	2.95E-03	1.05E-04	1.69E-03	6.23E-04	2.02E-05	1.81E-05	2.54E-04	2.71E-03
1.08E-04	1.79E-03	6.69E-04	2.16E-05	2.70E-04	2.70E-04	3.13E-03	1.08E-04	1.79E-03	6.69E-04	2.16E-05	1.94E-05	2.70E-04	2.87E-03
1.11E-04	1.87E-03	7.19E-04	2.32E-05	2.87E-04	2.87E-04	3.30E-03	1.11E-04	1.87E-03	7.19E-04	2.32E-05	2.08E-05	2.87E-04	3.03E-03
1.18E-04	2.03E-03	8.15E-04	2.57E-05	3.23E-04	3.23E-04	3.63E-03	1.18E-04	2.03E-03	8.15E-04	2.57E-05	2.31E-05	3.23E-04	3.33E-03
1.22E-04	2.11E-03	8.77E-04	2.75E-05	3.44E-04	3.44E-04	3.83E-03	1.22E-04	2.11E-03	8.77E-04	2.75E-05	2.47E-05	3.44E-04	3.51E-03
1.22E-04	2.06E-03	8.56E-04	2.78E-05	3.31E-04	3.31E-04	3.73E-03	1.22E-04	2.06E-03	8.56E-04	2.78E-05	2.50E-05	3.31E-04	3.42E-03
1.19E-04	1.93E-03	7.95E-04	2.71E-05	3.12E-04	3.12E-04	3.50E-03	1.19E-04	1.93E-03	7.95E-04	2.71E-05	2.45E-05	3.12E-04	3.21E-03
1.14E-04	1.65E-03	6.71E-04	2.40E-05	2.76E-04	2.76E-04	3.01E-03	1.14E-04	1.65E-03	6.71E-04	2.40E-05	2.18E-05	2.76E-04	2.75E-03
1.14E-04	1.61E-03	6.76E-04	2.44E-05	2.81E-04	2.81E-04	2.98E-03	1.14E-04	1.61E-03	6.76E-04	2.44E-05	2.21E-05	2.81E-04	2.73E-03
1.10E-04	1.36E-03	5.93E-04	2.15E-05	2.62E-04	2.62E-04	2.61E-03	1.10E-04	1.36E-03	5.93E-04	2.15E-05	1.95E-05	2.62E-04	2.37E-03
1.10E-04	1.27E-03	5.80E-04	2.10E-05	2.63E-04	2.63E-04	2.51E-03	1.10E-04	1.27E-03	5.80E-04	2.10E-05	1.90E-05	2.63E-04	2.27E-03
1.09E-04	1.06E-03	5.29E-04	1.86E-05	2.52E-04	2.52E-04	2.22E-03	1.09E-04	1.06E-03	5.29E-04	1.86E-05	1.69E-05	2.52E-04	1.99E-03
1.02E-04	6.10E-04	3.90E-04	1.26E-05	2.17E-04	2.17E-04	1.55E-03	1.02E-04	6.10E-04	3.90E-04	1.26E-05	1.19E-05	2.17E-04	1.34E-03
1.02E-04	4.85E-04	3.61E-04	1.12E-05	2.13E-04	2.13E-04	1.39E-03	1.02E-04	4.85E-04	3.61E-04	1.12E-05	1.08E-05	2.13E-04	1.18E-03
1.12E-04	6.47E-04	4.55E-04	1.47E-05	2.50E-04	2.50E-04	1.73E-03	1.12E-04	6.47E-04	4.55E-04	1.47E-05	1.38E-05	2.50E-04	1.49E-03
1.24E-04	9.23E-04	6.11E-04	2.04E-05	3.03E-04	3.03E-04	2.28E-03	1.24E-04	9.23E-04	6.11E-04	2.04E-05	1.88E-05	3.03E-04	2.00E-03
1.63E-04	2.18E-03	1.50E-03	5.85E-05	5.61E-04	5.61E-04	5.02E-03	1.63E-04	2.18E-03	1.50E-03	5.85E-05	5.03E-05	5.61E-04	4.51E-03
1.95E-04	2.86E-03	2.68E-03	9.46E-05	8.37E-04	8.37E-04	7.50E-03	1.95E-04	2.86E-03	2.68E-03	9.46E-05	8.16E-05	8.37E-04	6.74E-03
2.28E-04	3.32E-03	4.21E-03	1.25E-04	1.23E-03	1.23E-03	1.03E-02	2.28E-04	3.32E-03	4.21E-03	1.25E-04	1.10E-04	1.23E-03	9.23E-03
2.56E-04	3.53E-03	5.70E-03	1.51E-04	1.81E-03	1.81E-03	1.33E-02	2.56E-04	3.53E-03	5.70E-03	1.51E-04	1.38E-04	1.81E-03	1.16E-02
2.79E-04	3.65E-03	7.08E-03	1.77E-04	2.48E-03	2.48E-03	1.61E-02	2.79E-04	3.65E-03	7.08E-03	1.77E-04	1.66E-04	2.48E-03	1.38E-02
3.13E-04	3.64E-03	8.69E-03	1.97E-04	4.65E-03	4.65E-03	2.21E-02	3.13E-04	3.64E-03	8.69E-03	1.97E-04	1.87E-04	4.65E-03	1.77E-02
3.46E-04	3.63E-03	1.04E-02	2.31E-04	7.13E-03	7.13E-03	2.89E-02	3.46E-04	3.63E-03	1.04E-02	2.31E-04	2.22E-04	7.13E-03	2.19E-02
3.89E-04	3.68E-03	1.27E-02	2.79E-04	1.33E-02	1.33E-02	4.36E-02	3.89E-04	3.68E-03	1.27E-02	2.79E-04	2.78E-04	1.33E-02	3.06E-02
4.55E-04	3.73E-03	1.60E-02	3.41E-04	5.35E-02	5.35E-02	1.28E-01	4.55E-04	3.73E-03	1.60E-02	3.41E-04	3.60E-04	5.35E-02	7.44E-02
5.81E-04	3.79E-03	2.11E-02	4.26E-04	6.94E-02	6.94E-02	1.65E-01	5.81E-04	3.79E-03	2.11E-02	4.26E-04	4.73E-04	6.94E-02	9.57E-02
8.53E-04	3.97E-03	2.93E-02	5.44E-04	8.17E-02	8.17E-02	1.98E-01	8.53E-04	3.97E-03	2.93E-02	5.44E-04	6.20E-04	8.17E-02	1.17E-01
2.60E-03	4.16E-03	5.38E-02	7.68E-04	3.56E-02	3.56E-02	1.33E-01	2.60E-03	4.16E-03	5.38E-02	7.68E-04	9.00E-04	3.56E-02	9.79E-02
3.44E-03	4.24E-03	2.21E-01	1.28E-03	2.24E-02	2.24E-02	2.75E-01	3.44E-03	4.24E-03	2.21E-01	1.28E-03	1.51E-03	2.24E-02	2.54E-01
2.08E-03	3.97E-03	1.42E-01	5.83E-03	1.64E-02	1.64E-02	1.87E-01	2.08E-03	3.97E-03	1.42E-01	5.83E-03	5.20E-03	1.64E-02	1.76E-01
5.83E-03	4.15E-03	8.46E-02	8.64E-03	2.99E-02	2.99E-02	1.63E-01	5.83E-03	4.15E-03	8.46E-02	8.64E-03	1.96E-02	2.99E-02	1.53E-01
2.04E-03	4.26E-03	6.37E-02	3.45E-03	1.39E-02	1.39E-02	1.01E-01	2.04E-03	4.26E-03	6.37E-02	3.45E-03	5.25E-03	1.39E-02	9.26E-02
1.39E-03	4.33E-03	5.07E-02	2.09E-03	1.07E-02	1.07E-02	7.99E-02	1.39E-03	4.33E-03	5.07E-02	2.09E-03	2.88E-03	1.07E-02	7.21E-02
1.12E-03	4.29E-03	4.18E-02	1.53E-03	8.97E-03	8.97E-03	6.67E-02	1.12E-03	4.29E-03	4.18E-02	1.53E-03	1.91E-03	8.97E-03	5.96E-02
9.50E-04	4.22E-03	3.51E-02	1.21E-03	7.82E-03	7.82E-03	5.71E-02	9.50E-04	4.22E-03	3.51E-02	1.21E-03	1.40E-03	7.82E-03	5.07E-02
8.39E-04	4.22E-03	3.01E-02	9.85E-04	7.22E-03	7.22E-03	5.05E-02	8.39E-04	4.22E-03	3.01E-02	9.85E-04	1.10E-03	7.22E-03	4.44E-02
7.52E-04	4.19E-03	2.60E-02	8.27E-04	6.68E-03	6.68E-03	4.51E-02	7.52E-04	4.19E-03	2.60E-02	8.27E-04	9.00E-04	6.68E-03	3.93E-02
6.79E-04	4.10E-03	2.25E-02	7.06E-04	6.14E-03	6.14E-03	4.03E-02	6.79E-04	4.10E-03	2.25E-02	7.06E-04	7.56E-04	6.14E-03	3.49E-02
6.19E-04	4.03E-03	1.97E-02	6.11E-04	5.66E-03	5.66E-03	3.63E-02	6.19E-04	4.03E-03	1.97E-02	6.11E-04	6.45E-04	5.66E-03	3.13E-02
5.68E-04	3.91E-03	1.73E-02	5.35E-04	5.22E-03	5.22E-03	3.28E-02	5.68E-04	3.91E-03	1.73E-02	5.35E-04	5.59E-04	5.22E-03	2.81E-02

5.24E-04	3.78E-03	1.52E-02	4.72E-04	4.79E-03	4.79E-03	2.95E-02	5.24E-04	3.78E-03	1.52E-02	4.72E-04	4.87E-04	4.79E-03	2.52E-02
4.49E-04	3.35E-03	1.19E-02	3.90E-04	3.94E-03	3.94E-03	2.40E-02	4.49E-04	3.35E-03	1.19E-02	3.90E-04	4.01E-04	3.94E-03	2.04E-02
3.91E-04	2.98E-03	9.10E-03	3.06E-04	3.26E-03	3.26E-03	1.93E-02	3.91E-04	2.98E-03	9.10E-03	3.06E-04	3.12E-04	3.26E-03	1.63E-02
3.35E-04	2.49E-03	6.55E-03	2.19E-04	2.55E-03	2.55E-03	1.47E-02	3.35E-04	2.49E-03	6.55E-03	2.19E-04	2.21E-04	2.55E-03	1.24E-02
2.82E-04	1.91E-03	4.47E-03	1.45E-04	1.96E-03	1.96E-03	1.07E-02	2.82E-04	1.91E-03	4.47E-03	1.45E-04	1.47E-04	1.96E-03	8.92E-03
2.46E-04	1.50E-03	3.21E-03	1.01E-04	1.58E-03	1.58E-03	8.21E-03	2.46E-04	1.50E-03	3.21E-03	1.01E-04	1.03E-04	1.58E-03	6.73E-03
2.29E-04	1.36E-03	2.67E-03	8.26E-05	1.40E-03	1.40E-03	7.13E-03	2.29E-04	1.36E-03	2.67E-03	8.26E-05	8.43E-05	1.40E-03	5.82E-03
2.19E-04	1.32E-03	2.36E-03	7.26E-05	1.28E-03	1.28E-03	6.53E-03	2.19E-04	1.32E-03	2.36E-03	7.26E-05	7.41E-05	1.28E-03	5.32E-03
2.16E-04	1.37E-03	2.25E-03	6.92E-05	1.24E-03	1.24E-03	6.38E-03	2.16E-04	1.37E-03	2.25E-03	6.92E-05	7.05E-05	1.24E-03	5.22E-03
2.15E-04	1.44E-03	2.18E-03	6.72E-05	1.21E-03	1.21E-03	6.32E-03	2.15E-04	1.44E-03	2.18E-03	6.72E-05	6.83E-05	1.21E-03	5.18E-03
2.17E-04	1.55E-03	2.19E-03	6.79E-05	1.22E-03	1.22E-03	6.47E-03	2.17E-04	1.55E-03	2.19E-03	6.79E-05	6.86E-05	1.22E-03	5.32E-03
2.22E-04	1.71E-03	2.28E-03	7.10E-05	1.24E-03	1.24E-03	6.77E-03	2.22E-04	1.71E-03	2.28E-03	7.10E-05	7.14E-05	1.24E-03	5.60E-03
2.33E-04	2.01E-03	2.52E-03	7.95E-05	1.33E-03	1.33E-03	7.50E-03	2.33E-04	2.01E-03	2.52E-03	7.95E-05	7.95E-05	1.33E-03	6.25E-03
2.46E-04	2.35E-03	2.82E-03	9.00E-05	1.44E-03	1.44E-03	8.39E-03	2.46E-04	2.35E-03	2.82E-03	9.00E-05	8.96E-05	1.44E-03	7.04E-03
1.01E-04	1.61E-03	6.30E-04	1.98E-05	2.55E-04	2.55E-04	2.87E-03	1.01E-04	1.61E-03	6.30E-04	1.98E-05	1.78E-05	2.55E-04	2.63E-03
1.03E-04	1.65E-03	6.45E-04	2.05E-05	2.59E-04	2.59E-04	2.93E-03	1.03E-04	1.65E-03	6.45E-04	2.05E-05	1.84E-05	2.59E-04	2.69E-03
1.05E-04	1.71E-03	6.84E-04	2.17E-05	2.73E-04	2.73E-04	3.07E-03	1.05E-04	1.71E-03	6.84E-04	2.17E-05	1.95E-05	2.73E-04	2.81E-03
1.08E-04	1.79E-03	7.38E-04	2.33E-05	2.92E-04	2.92E-04	3.24E-03	1.08E-04	1.79E-03	7.38E-04	2.33E-05	2.09E-05	2.92E-04	2.97E-03
1.12E-04	1.89E-03	8.13E-04	2.53E-05	3.20E-04	3.20E-04	3.48E-03	1.12E-04	1.89E-03	8.13E-04	2.53E-05	2.27E-05	3.20E-04	3.19E-03
1.17E-04	2.02E-03	9.11E-04	2.77E-05	3.56E-04	3.56E-04	3.79E-03	1.17E-04	2.02E-03	9.11E-04	2.77E-05	2.48E-05	3.56E-04	3.46E-03
1.15E-04	1.92E-03	8.55E-04	2.74E-05	3.28E-04	3.28E-04	3.58E-03	1.15E-04	1.92E-03	8.55E-04	2.74E-05	2.45E-05	3.28E-04	3.27E-03
1.05E-04	1.53E-03	6.33E-04	2.24E-05	2.59E-04	2.59E-04	2.81E-03	1.05E-04	1.53E-03	6.33E-04	2.24E-05	2.01E-05	2.59E-04	2.57E-03
9.43E-05	1.02E-03	4.40E-04	1.58E-05	2.05E-04	2.05E-04	1.98E-03	9.43E-05	1.02E-03	4.40E-04	1.58E-05	1.42E-05	2.05E-04	1.79E-03
9.35E-05	9.07E-04	4.16E-04	1.48E-05	2.02E-04	2.02E-04	1.84E-03	9.35E-05	9.07E-04	4.16E-04	1.48E-05	1.33E-05	2.02E-04	1.65E-03
1.02E-04	1.20E-03	5.44E-04	2.00E-05	2.44E-04	2.44E-04	2.36E-03	1.02E-04	1.20E-03	5.44E-04	2.00E-05	1.77E-05	2.44E-04	2.13E-03
1.06E-04	1.25E-03	5.94E-04	2.18E-05	2.60E-04	2.60E-04	2.49E-03	1.06E-04	1.25E-03	5.94E-04	2.18E-05	1.89E-05	2.60E-04	2.25E-03
1.05E-04	1.05E-03	5.24E-04	1.90E-05	2.46E-04	2.46E-04	2.19E-03	1.05E-04	1.05E-03	5.24E-04	1.90E-05	1.68E-05	2.46E-04	1.96E-03
1.01E-04	7.11E-04	4.12E-04	1.39E-05	2.19E-04	2.19E-04	1.68E-03	1.01E-04	7.11E-04	4.12E-04	1.39E-05	1.28E-05	2.19E-04	1.47E-03
9.75E-05	4.69E-04	3.35E-04	1.05E-05	2.01E-04	2.01E-04	1.31E-03	9.75E-05	4.69E-04	3.35E-04	1.05E-05	9.90E-06	2.01E-04	1.12E-03
9.59E-05	3.65E-04	3.00E-04	9.01E-06	1.95E-04	1.95E-04	1.16E-03	9.59E-05	3.65E-04	3.00E-04	9.01E-06	8.59E-06	1.95E-04	9.73E-04
1.11E-04	6.65E-04	4.62E-04	1.53E-05	2.56E-04	2.56E-04	1.77E-03	1.11E-04	6.65E-04	4.62E-04	1.53E-05	1.39E-05	2.56E-04	1.52E-03
1.47E-04	1.81E-03	1.20E-03	4.82E-05	4.83E-04	4.83E-04	4.17E-03	1.47E-04	1.81E-03	1.20E-03	4.82E-05	4.09E-05	4.83E-04	3.73E-03
1.43E-04	1.48E-03	1.01E-03	3.87E-05	4.41E-04	4.41E-04	3.56E-03	1.43E-04	1.48E-03	1.01E-03	3.87E-05	3.36E-05	4.41E-04	3.15E-03
2.14E-04	3.04E-03	3.94E-03	1.15E-04	1.24E-03	1.24E-03	9.77E-03	2.14E-04	3.04E-03	3.94E-03	1.15E-04	1.09E-04	1.24E-03	8.65E-03
2.23E-04	3.03E-03	4.47E-03	1.31E-04	1.37E-03	1.37E-03	1.06E-02	2.23E-04	3.03E-03	4.47E-03	1.31E-04	1.24E-04	1.37E-03	9.36E-03
2.49E-04	3.22E-03	5.88E-03	1.58E-04	1.99E-03	1.99E-03	1.35E-02	2.49E-04	3.22E-03	5.88E-03	1.58E-04	1.50E-04	1.99E-03	1.16E-02
2.82E-04	3.37E-03	7.50E-03	1.79E-04	3.73E-03	3.73E-03	1.88E-02	2.82E-04	3.37E-03	7.50E-03	1.79E-04	1.71E-04	3.73E-03	1.52E-02
3.06E-04	3.41E-03	8.66E-03	2.01E-04	5.36E-03	5.36E-03	2.33E-02	3.06E-04	3.41E-03	8.66E-03	2.01E-04	1.96E-04	5.36E-03	1.81E-02
3.36E-04	3.48E-03	1.02E-02	2.33E-04	7.53E-03	7.53E-03	2.93E-02	3.36E-04	3.48E-03	1.02E-02	2.33E-04	2.35E-04	7.53E-03	2.20E-02
3.79E-04	3.56E-03	1.23E-02	2.76E-04	1.11E-02	1.11E-02	3.88E-02	3.79E-04	3.56E-03	1.23E-02	2.76E-04	2.87E-04	1.11E-02	2.79E-02
4.43E-04	3.59E-03	1.51E-02	3.27E-04	1.78E-02	1.78E-02	5.50E-02	4.43E-04	3.59E-03	1.51E-02	3.27E-04	3.49E-04	1.78E-02	3.76E-02
5.55E-04	3.67E-03	1.94E-02	3.98E-04	3.15E-02	3.15E-02	8.70E-02	5.55E-04	3.67E-03	1.94E-02	3.98E-04	4.26E-04	3.15E-02	5.59E-02
7.63E-04	3.83E-03	2.65E-02	5.00E-04	7.62E-02	7.62E-02	1.84E-01	7.63E-04	3.83E-03	2.65E-02	5.00E-04	5.29E-04	7.62E-02	1.08E-01
1.55E-03	4.07E-03	4.29E-02	6.69E-04	4.45E-02	4.45E-02	1.38E-01	1.55E-03	4.07E-03	4.29E-02	6.69E-04	6.83E-04	4.45E-02	9.44E-02
4.98E-03	4.33E-03	1.97E-01	1.10E-03	2.07E-02	2.07E-02	2.49E-01	4.98E-03	4.33E-03	1.97E-01	1.10E-03	1.02E-03	2.07E-02	2.29E-01
2.25E-03	4.17E-03	2.15E-01	3.55E-03	1.30E-02	1.30E-02	2.51E-01	2.25E-03	4.17E-03	2.15E-01	3.55E-03	1.56E-03	1.30E-02	2.39E-01
6.97E-03	4.46E-03	1.05E-01	6.46E-03	1.18E-02	1.18E-02	1.47E-01	6.97E-03	4.46E-03	1.05E-01	6.46E-03	1.62E-03	1.18E-02	1.36E-01
2.22E-03	4.76E-03	7.07E-02	2.56E-03	1.10E-02	1.10E-02	1.02E-01	2.22E-03	4.76E-03	7.07E-02	2.56E-03	1.38E-03	1.10E-02	9.26E-02
1.51E-03	4.83E-03	5.28E-02	1.68E-03	9.89E-03	9.89E-03	8.06E-02	1.51E-03	4.83E-03	5.28E-02	1.68E-03	1.14E-03	9.89E-03	7.18E-02
1.19E-03	4.82E-03	4.17E-02	1.25E-03	9.85E-03	9.85E-03	6.86E-02	1.19E-03	4.82E-03	4.17E-02	1.25E-03	9.53E-04	9.85E-03	5.98E-02
1.01E-03	4.58E-03	3.42E-02	9.87E-04	9.53E-03	9.53E-03	5.98E-02	1.01E-03	4.58E-03	3.42E-02	9.87E-04	8.14E-04	9.53E-03	5.11E-02
8.76E-04	4.38E-03	2.86E-02	8.14E-04	8.58E-03	8.58E-03	5.18E-02	8.76E-04	4.38E-03	2.86E-02	8.14E-04	7.05E-04	8.58E-03	4.39E-02
7.78E-04	4.28E-03	2.41E-02	6.86E-04	7.68E-03	7.68E-03	4.52E-02	7.78E-04	4.28E-03	2.41E-02	6.86E-04	6.15E-04	7.68E-03	3.82E-02
7.01E-04	4.26E-03	2.07E-02	5.90E-04	6.98E-03	6.98E-03	4.02E-02	7.01E-04	4.26E-03	2.07E-02	5.90E-04	5.40E-04	6.98E-03	3.37E-02

6.38E-04	4.29E-03	1.79E-02	5.14E-04	6.40E-03	6.40E-03	3.62E-02	6.38E-04	4.29E-03	1.79E-02	5.14E-04	4.79E-04	6.40E-03	3.02E-02
5.68E-04	4.14E-03	1.53E-02	4.50E-04	5.66E-03	5.66E-03	3.17E-02	5.68E-04	4.14E-03	1.53E-02	4.50E-04	4.25E-04	5.66E-03	2.65E-02
4.57E-04	3.53E-03	1.11E-02	3.51E-04	4.34E-03	4.34E-03	2.41E-02	4.57E-04	3.53E-03	1.11E-02	3.51E-04	3.40E-04	4.34E-03	2.01E-02
3.74E-04	2.94E-03	7.53E-03	2.43E-04	3.22E-03	3.22E-03	1.75E-02	3.74E-04	2.94E-03	7.53E-03	2.43E-04	2.35E-04	3.22E-03	1.45E-02
3.14E-04	2.29E-03	5.13E-03	1.62E-04	2.42E-03	2.42E-03	1.27E-02	3.14E-04	2.29E-03	5.13E-03	1.62E-04	1.58E-04	2.42E-03	1.05E-02
2.89E-04	2.07E-03	4.19E-03	1.31E-04	2.09E-03	2.09E-03	1.09E-02	2.89E-04	2.07E-03	4.19E-03	1.31E-04	1.28E-04	2.09E-03	8.89E-03
2.65E-04	1.85E-03	3.37E-03	1.04E-04	1.79E-03	1.79E-03	9.17E-03	2.65E-04	1.85E-03	3.37E-03	1.04E-04	1.01E-04	1.79E-03	7.48E-03
2.53E-04	1.80E-03	2.97E-03	9.14E-05	1.63E-03	1.63E-03	8.37E-03	2.53E-04	1.80E-03	2.97E-03	9.14E-05	8.89E-05	1.63E-03	6.83E-03
2.43E-04	1.76E-03	2.66E-03	8.17E-05	1.50E-03	1.50E-03	7.75E-03	2.43E-04	1.76E-03	2.66E-03	8.17E-05	7.99E-05	1.50E-03	6.33E-03
2.40E-04	1.81E-03	2.54E-03	7.81E-05	1.45E-03	1.45E-03	7.56E-03	2.40E-04	1.81E-03	2.54E-03	7.81E-05	7.64E-05	1.45E-03	6.19E-03
2.38E-04	1.87E-03	2.46E-03	7.60E-05	1.40E-03	1.40E-03	7.46E-03	2.38E-04	1.87E-03	2.46E-03	7.60E-05	7.44E-05	1.40E-03	6.13E-03
2.37E-04	1.95E-03	2.43E-03	7.52E-05	1.38E-03	1.38E-03	7.45E-03	2.37E-04	1.95E-03	2.43E-03	7.52E-05	7.34E-05	1.38E-03	6.15E-03
2.41E-04	2.11E-03	2.51E-03	7.83E-05	1.40E-03	1.40E-03	7.74E-03	2.41E-04	2.11E-03	2.51E-03	7.83E-05	7.67E-05	1.40E-03	6.42E-03
2.49E-04	2.35E-03	2.68E-03	8.44E-05	1.46E-03	1.46E-03	8.28E-03	2.49E-04	2.35E-03	2.68E-03	8.44E-05	8.23E-05	1.46E-03	6.90E-03
2.72E-04	2.87E-03	3.21E-03	1.02E-04	1.67E-03	1.67E-03	9.79E-03	2.72E-04	2.87E-03	3.21E-03	1.02E-04	9.95E-05	1.67E-03	8.22E-03
9.75E-05	1.54E-03	6.36E-04	1.98E-05	2.62E-04	2.62E-04	2.82E-03	9.75E-05	1.54E-03	6.36E-04	1.98E-05	1.84E-05	2.62E-04	2.58E-03
9.91E-05	1.59E-03	6.61E-04	2.07E-05	2.68E-04	2.68E-04	2.90E-03	9.91E-05	1.59E-03	6.61E-04	2.07E-05	1.92E-05	2.68E-04	2.65E-03
1.01E-04	1.65E-03	7.02E-04	2.20E-05	2.82E-04	2.82E-04	3.03E-03	1.01E-04	1.65E-03	7.02E-04	2.20E-05	2.03E-05	2.82E-04	2.77E-03
1.05E-04	1.74E-03	7.76E-04	2.39E-05	3.08E-04	3.08E-04	3.26E-03	1.05E-04	1.74E-03	7.76E-04	2.39E-05	2.19E-05	3.08E-04	2.97E-03
1.08E-04	1.80E-03	8.29E-04	2.55E-05	3.24E-04	3.24E-04	3.41E-03	1.08E-04	1.80E-03	8.29E-04	2.55E-05	2.32E-05	3.24E-04	3.11E-03
1.13E-04	1.89E-03	9.11E-04	2.78E-05	3.54E-04	3.54E-04	3.65E-03	1.13E-04	1.89E-03	9.11E-04	2.78E-05	2.51E-05	3.54E-04	3.32E-03
1.09E-04	1.76E-03	8.25E-04	2.71E-05	3.19E-04	3.19E-04	3.36E-03	1.09E-04	1.76E-03	8.25E-04	2.71E-05	2.45E-05	3.19E-04	3.07E-03
9.83E-05	1.36E-03	5.83E-04	2.15E-05	2.42E-04	2.42E-04	2.55E-03	9.83E-05	1.36E-03	5.83E-04	2.15E-05	1.92E-05	2.42E-04	2.33E-03
8.27E-05	7.16E-04	3.35E-04	1.18E-05	1.71E-04	1.71E-04	1.49E-03	8.27E-05	7.16E-04	3.35E-04	1.18E-05	1.07E-05	1.71E-04	1.33E-03
6.91E-05	2.50E-04	1.73E-04	5.26E-06	1.19E-04	1.19E-04	7.35E-04	6.91E-05	2.50E-04	1.73E-04	5.26E-06	5.14E-06	1.19E-04	6.21E-04
8.75E-05	7.90E-04	3.87E-04	1.37E-05	1.93E-04	1.93E-04	1.66E-03	8.75E-05	7.90E-04	3.87E-04	1.37E-05	1.24E-05	1.93E-04	1.48E-03
9.51E-05	9.83E-04	4.86E-04	1.76E-05	2.25E-04	2.25E-04	2.03E-03	9.51E-05	9.83E-04	4.86E-04	1.76E-05	1.57E-05	2.25E-04	1.82E-03
9.71E-05	9.39E-04	4.78E-04	1.73E-05	2.30E-04	2.30E-04	1.99E-03	9.71E-05	9.39E-04	4.78E-04	1.73E-05	1.56E-05	2.30E-04	1.78E-03
9.87E-05	8.65E-04	4.70E-04	1.67E-05	2.33E-04	2.33E-04	1.92E-03	9.87E-05	8.65E-04	4.70E-04	1.67E-05	1.49E-05	2.33E-04	1.70E-03
8.91E-05	3.89E-04	2.79E-04	8.86E-06	1.81E-04	1.81E-04	1.13E-03	8.91E-05	3.89E-04	2.79E-04	8.86E-06	8.17E-06	1.81E-04	9.55E-04
8.75E-05	2.93E-04	2.37E-04	7.23E-06	1.69E-04	1.69E-04	9.63E-04	8.75E-05	2.93E-04	2.37E-04	7.23E-06	6.78E-06	1.69E-04	8.01E-04
1.35E-04	1.67E-03	1.09E-03	4.31E-05	4.35E-04	4.35E-04	3.80E-03	1.35E-04	1.67E-03	1.09E-03	4.31E-05	3.84E-05	4.35E-04	3.41E-03
1.70E-04	2.49E-03	2.39E-03	7.77E-05	7.95E-04	7.95E-04	6.72E-03	1.70E-04	2.49E-03	2.39E-03	7.77E-05	7.48E-05	7.95E-04	6.00E-03
1.89E-04	2.73E-03	3.17E-03	9.34E-05	1.07E-03	1.07E-03	8.32E-03	1.89E-04	2.73E-03	3.17E-03	9.34E-05	8.98E-05	1.07E-03	7.34E-03
1.99E-04	2.78E-03	3.65E-03	1.06E-04	1.24E-03	1.24E-03	9.21E-03	1.99E-04	2.78E-03	3.65E-03	1.06E-04	1.01E-04	1.24E-03	8.07E-03
2.09E-04	2.87E-03	4.23E-03	1.20E-04	1.44E-03	1.44E-03	1.03E-02	2.09E-04	2.87E-03	4.23E-03	1.20E-04	1.15E-04	1.44E-03	8.98E-03
2.26E-04	2.96E-03	5.07E-03	1.40E-04	1.79E-03	1.79E-03	1.20E-02	2.26E-04	2.96E-03	5.07E-03	1.40E-04	1.33E-04	1.79E-03	1.03E-02
2.53E-04	3.13E-03	6.34E-03	1.62E-04	2.76E-03	2.76E-03	1.54E-02	2.53E-04	3.13E-03	6.34E-03	1.62E-04	1.55E-04	2.76E-03	1.28E-02
2.75E-04	3.20E-03	7.23E-03	1.73E-04	4.25E-03	4.25E-03	1.94E-02	2.75E-04	3.20E-03	7.23E-03	1.73E-04	1.69E-04	4.25E-03	1.53E-02
2.97E-04	3.31E-03	8.27E-03	1.96E-04	5.19E-03	5.19E-03	2.25E-02	2.97E-04	3.31E-03	8.27E-03	1.96E-04	1.97E-04	5.19E-03	1.75E-02
3.28E-04	3.44E-03	9.65E-03	2.26E-04	6.34E-03	6.34E-03	2.63E-02	3.28E-04	3.44E-03	9.65E-03	2.26E-04	2.29E-04	6.34E-03	2.02E-02
3.66E-04	3.55E-03	1.14E-02	2.59E-04	7.65E-03	7.65E-03	3.08E-02	3.66E-04	3.55E-03	1.14E-02	2.59E-04	2.66E-04	7.65E-03	2.35E-02
4.31E-04	3.69E-03	1.38E-02	3.03E-04	9.56E-03	9.56E-03	3.73E-02	4.31E-04	3.69E-03	1.38E-02	3.03E-04	3.05E-04	9.56E-03	2.81E-02
5.27E-04	3.87E-03	1.72E-02	3.59E-04	1.23E-02	1.23E-02	4.65E-02	5.27E-04	3.87E-03	1.72E-02	3.59E-04	3.43E-04	1.23E-02	3.46E-02
6.92E-04	4.03E-03	2.27E-02	4.39E-04	1.84E-02	1.84E-02	6.46E-02	6.92E-04	4.03E-03	2.27E-02	4.39E-04	3.85E-04	1.84E-02	4.66E-02
1.13E-03	4.26E-03	3.37E-02	5.64E-04	6.11E-02	6.11E-02	1.62E-01	1.13E-03	4.26E-03	3.37E-02	5.64E-04	4.25E-04	6.11E-02	1.01E-01
7.21E-03	4.74E-03	7.52E-02	8.11E-04	2.33E-02	2.33E-02	1.34E-01	7.21E-03	4.74E-03	7.52E-02	8.11E-04	4.37E-04	2.33E-02	1.12E-01
3.68E-03	5.29E-03	2.25E-01	1.85E-03	1.66E-02	1.66E-02	2.69E-01	3.68E-03	5.29E-03	2.25E-01	1.85E-03	5.07E-04	1.66E-02	2.53E-01
8.59E-03	5.63E-03	1.05E-01	3.04E-03	1.44E-02	1.44E-02	1.51E-01	8.59E-03	5.63E-03	1.05E-01	3.04E-03	5.42E-04	1.44E-02	1.37E-01
2.51E-03	6.21E-03	6.38E-02	1.53E-03	2.90E-02	2.90E-02	1.32E-01	2.51E-03	6.21E-03	6.38E-02	1.53E-03	7.47E-04	2.90E-02	1.04E-01
1.68E-03	6.43E-03	4.59E-02	1.09E-03	1.82E-02	1.82E-02	9.15E-02	1.68E-03	6.43E-03	4.59E-02	1.09E-03	6.18E-04	1.82E-02	7.39E-02
1.30E-03	5.88E-03	3.56E-02	8.72E-04	1.31E-02	1.31E-02	6.98E-02	1.30E-03	5.88E-03	3.56E-02	8.72E-04	5.47E-04	1.31E-02	5.73E-02
1.07E-03	5.44E-03	2.85E-02	7.25E-04	1.07E-02	1.07E-02	5.72E-02	1.07E-03	5.44E-03	2.85E-02	7.25E-04	4.98E-04	1.07E-02	4.70E-02
9.24E-04	5.37E-03	2.35E-02	6.17E-04	9.40E-03	9.40E-03	4.92E-02	9.24E-04	5.37E-03	2.35E-02	6.17E-04	4.53E-04	9.40E-03	4.03E-02

8.19E-04	5.54E-03	1.98E-02	5.33E-04	8.40E-03	8.40E-03	4.35E-02	8.19E-04	5.54E-03	1.98E-02	5.33E-04	4.14E-04	8.40E-03	3.55E-02
7.06E-04	5.27E-03	1.67E-02	4.61E-04	7.17E-03	7.17E-03	3.74E-02	7.06E-04	5.27E-03	1.67E-02	4.61E-04	3.79E-04	7.17E-03	3.06E-02
5.99E-04	4.80E-03	1.36E-02	3.92E-04	5.90E-03	5.90E-03	3.11E-02	5.99E-04	4.80E-03	1.36E-02	3.92E-04	3.39E-04	5.90E-03	2.56E-02
4.70E-04	3.94E-03	9.15E-03	2.84E-04	4.25E-03	4.25E-03	2.24E-02	4.70E-04	3.94E-03	9.15E-03	2.84E-04	2.56E-04	4.25E-03	1.84E-02
3.81E-04	3.24E-03	6.12E-03	1.90E-04	3.10E-03	3.10E-03	1.61E-02	3.81E-04	3.24E-03	6.12E-03	1.90E-04	1.72E-04	3.10E-03	1.32E-02
3.42E-04	2.98E-03	4.94E-03	1.53E-04	2.63E-03	2.63E-03	1.37E-02	3.42E-04	2.98E-03	4.94E-03	1.53E-04	1.40E-04	2.63E-03	1.12E-02
3.20E-04	2.89E-03	4.31E-03	1.33E-04	2.37E-03	2.37E-03	1.24E-02	3.20E-04	2.89E-03	4.31E-03	1.33E-04	1.23E-04	2.37E-03	1.01E-02
3.05E-04	2.80E-03	3.86E-03	1.19E-04	2.17E-03	2.17E-03	1.14E-02	3.05E-04	2.80E-03	3.86E-03	1.19E-04	1.12E-04	2.17E-03	9.36E-03
2.84E-04	2.55E-03	3.26E-03	9.98E-05	1.90E-03	1.90E-03	9.99E-03	2.84E-04	2.55E-03	3.26E-03	9.98E-05	9.44E-05	1.90E-03	8.19E-03
2.75E-04	2.52E-03	3.02E-03	9.24E-05	1.77E-03	1.77E-03	9.45E-03	2.75E-04	2.52E-03	3.02E-03	9.24E-05	8.80E-05	1.77E-03	7.77E-03
2.67E-04	2.48E-03	2.82E-03	8.63E-05	1.66E-03	1.66E-03	8.97E-03	2.67E-04	2.48E-03	2.82E-03	8.63E-05	8.26E-05	1.66E-03	7.39E-03
2.65E-04	2.55E-03	2.78E-03	8.57E-05	1.63E-03	1.63E-03	8.93E-03	2.65E-04	2.55E-03	2.78E-03	8.57E-05	8.27E-05	1.63E-03	7.39E-03
2.65E-04	2.63E-03	2.75E-03	8.54E-05	1.59E-03	1.59E-03	8.91E-03	2.65E-04	2.63E-03	2.75E-03	8.54E-05	8.21E-05	1.59E-03	7.40E-03
2.62E-04	2.64E-03	2.68E-03	8.36E-05	1.55E-03	1.55E-03	8.76E-03	2.62E-04	2.64E-03	2.68E-03	8.36E-05	8.03E-05	1.55E-03	7.30E-03
2.77E-04	2.99E-03	3.00E-03	9.47E-05	1.67E-03	1.67E-03	9.71E-03	2.77E-04	2.99E-03	3.00E-03	9.47E-05	9.10E-05	1.67E-03	8.13E-03
2.91E-04	3.33E-03	3.33E-03	1.05E-04	1.81E-03	1.81E-03	1.07E-02	2.91E-04	3.33E-03	3.33E-03	1.05E-04	1.02E-04	1.81E-03	8.96E-03
9.59E-05	1.51E-03	6.64E-04	2.04E-05	2.77E-04	2.77E-04	2.84E-03	9.59E-05	1.51E-03	6.64E-04	2.04E-05	1.87E-05	2.77E-04	2.59E-03
9.75E-05	1.55E-03	6.92E-04	2.14E-05	2.84E-04	2.84E-04	2.93E-03	9.75E-05	1.55E-03	6.92E-04	2.14E-05	1.95E-05	2.84E-04	2.66E-03
9.91E-05	1.58E-03	7.22E-04	2.25E-05	2.92E-04	2.92E-04	3.01E-03	9.91E-05	1.58E-03	7.22E-04	2.25E-05	2.04E-05	2.92E-04	2.74E-03
1.01E-04	1.65E-03	7.80E-04	2.42E-05	3.13E-04	3.13E-04	3.18E-03	1.01E-04	1.65E-03	7.80E-04	2.42E-05	2.17E-05	3.13E-04	2.89E-03
1.07E-04	1.75E-03	8.94E-04	2.69E-05	3.61E-04	3.61E-04	3.50E-03	1.07E-04	1.75E-03	8.94E-04	2.69E-05	2.38E-05	3.61E-04	3.16E-03
1.07E-04	1.75E-03	9.04E-04	2.81E-05	3.53E-04	3.53E-04	3.50E-03	1.07E-04	1.75E-03	9.04E-04	2.81E-05	2.48E-05	3.53E-04	3.17E-03
1.01E-04	1.61E-03	7.85E-04	2.67E-05	3.00E-04	3.00E-04	3.12E-03	1.01E-04	1.61E-03	7.85E-04	2.67E-05	2.34E-05	3.00E-04	2.84E-03
9.51E-05	1.34E-03	6.04E-04	2.25E-05	2.44E-04	2.44E-04	2.55E-03	9.51E-05	1.34E-03	6.04E-04	2.25E-05	1.98E-05	2.44E-04	2.32E-03
8.39E-05	8.94E-04	3.99E-04	1.49E-05	1.88E-04	1.88E-04	1.77E-03	8.39E-05	8.94E-04	3.99E-04	1.49E-05	1.33E-05	1.88E-04	1.59E-03
7.79E-05	5.93E-04	2.97E-04	1.03E-05	1.62E-04	1.62E-04	1.30E-03	7.79E-05	5.93E-04	2.97E-04	1.03E-05	9.49E-06	1.62E-04	1.15E-03
8.03E-05	6.41E-04	3.26E-04	1.14E-05	1.75E-04	1.75E-04	1.41E-03	8.03E-05	6.41E-04	3.26E-04	1.14E-05	1.04E-05	1.75E-04	1.24E-03
8.35E-05	6.97E-04	3.65E-04	1.29E-05	1.89E-04	1.89E-04	1.54E-03	8.35E-05	6.97E-04	3.65E-04	1.29E-05	1.14E-05	1.89E-04	1.36E-03
8.47E-05	6.39E-04	3.48E-04	1.22E-05	1.91E-04	1.91E-04	1.47E-03	8.47E-05	6.39E-04	3.48E-04	1.22E-05	1.09E-05	1.91E-04	1.29E-03
9.31E-05	8.72E-04	4.67E-04	1.73E-05	2.31E-04	2.31E-04	1.91E-03	9.31E-05	8.72E-04	4.67E-04	1.73E-05	1.51E-05	2.31E-04	1.70E-03
9.79E-05	9.18E-04	5.08E-04	1.89E-05	2.50E-04	2.50E-04	2.04E-03	9.79E-05	9.18E-04	5.08E-04	1.89E-05	1.67E-05	2.50E-04	1.81E-03
9.23E-05	5.65E-04	3.55E-04	1.23E-05	2.10E-04	2.10E-04	1.45E-03	9.23E-05	5.65E-04	3.55E-04	1.23E-05	1.11E-05	2.10E-04	1.25E-03
1.28E-04	1.65E-03	1.15E-03	4.48E-05	4.47E-04	4.47E-04	3.86E-03	1.28E-04	1.65E-03	1.15E-03	4.48E-05	4.11E-05	4.47E-04	3.45E-03
1.63E-04	2.36E-03	2.48E-03	7.62E-05	8.59E-04	8.59E-04	6.79E-03	1.63E-04	2.36E-03	2.48E-03	7.62E-05	7.27E-05	8.59E-04	6.01E-03
1.81E-04	2.52E-03	3.10E-03	8.84E-05	1.15E-03	1.15E-03	8.20E-03	1.81E-04	2.52E-03	3.10E-03	8.84E-05	8.40E-05	1.15E-03	7.13E-03
1.91E-04	2.56E-03	3.49E-03	9.83E-05	1.28E-03	1.28E-03	8.90E-03	1.91E-04	2.56E-03	3.49E-03	9.83E-05	9.37E-05	1.28E-03	7.71E-03
2.03E-04	2.65E-03	3.98E-03	1.11E-04	1.50E-03	1.50E-03	9.94E-03	2.03E-04	2.65E-03	3.98E-03	1.11E-04	1.05E-04	1.50E-03	8.55E-03
2.11E-04	2.68E-03	4.48E-03	1.25E-04	1.66E-03	1.66E-03	1.08E-02	2.11E-04	2.68E-03	4.48E-03	1.25E-04	1.19E-04	1.66E-03	9.27E-03
2.27E-04	2.79E-03	5.19E-03	1.42E-04	2.02E-03	2.02E-03	1.24E-02	2.27E-04	2.79E-03	5.19E-03	1.42E-04	1.37E-04	2.02E-03	1.05E-02
2.49E-04	2.99E-03	6.27E-03	1.59E-04	2.99E-03	2.99E-03	1.56E-02	2.49E-04	2.99E-03	6.27E-03	1.59E-04	1.55E-04	2.99E-03	1.28E-02
2.69E-04	3.12E-03	6.93E-03	1.69E-04	4.03E-03	4.03E-03	1.86E-02	2.69E-04	3.12E-03	6.93E-03	1.69E-04	1.66E-04	4.03E-03	1.47E-02
2.89E-04	3.27E-03	7.68E-03	1.86E-04	4.72E-03	4.72E-03	2.09E-02	2.89E-04	3.27E-03	7.68E-03	1.86E-04	1.81E-04	4.72E-03	1.63E-02
3.17E-04	3.45E-03	8.84E-03	2.09E-04	5.51E-03	5.51E-03	2.38E-02	3.17E-04	3.45E-03	8.84E-03	2.09E-04	2.02E-04	5.51E-03	1.85E-02
3.58E-04	3.66E-03	1.02E-02	2.36E-04	6.67E-03	6.67E-03	2.78E-02	3.58E-04	3.66E-03	1.02E-02	2.36E-04	2.19E-04	6.67E-03	2.13E-02
4.15E-04	3.95E-03	1.18E-02	2.67E-04	8.60E-03	8.60E-03	3.36E-02	4.15E-04	3.95E-03	1.18E-02	2.67E-04	2.35E-04	8.60E-03	2.53E-02
4.94E-04	4.31E-03	1.41E-02	3.07E-04	1.32E-02	1.32E-02	4.57E-02	4.94E-04	4.31E-03	1.41E-02	3.07E-04	2.53E-04	1.32E-02	3.27E-02
6.15E-04	4.72E-03	1.73E-02	3.60E-04	6.23E-02	6.23E-02	1.48E-01	6.15E-04	4.72E-03	1.73E-02	3.60E-04	2.57E-04	6.23E-02	8.55E-02
8.42E-04	5.19E-03	2.19E-02	4.27E-04	8.20E-02	8.20E-02	1.92E-01	8.42E-04	5.19E-03	2.19E-02	4.27E-04	2.57E-04	8.20E-02	1.11E-01
1.50E-03	5.83E-03	3.18E-02	5.45E-04	3.85E-02	3.85E-02	1.17E-01	1.50E-03	5.83E-03	3.18E-02	5.45E-04	2.72E-04	3.85E-02	7.84E-02
1.93E-02	7.28E-03	1.05E-01	9.21E-04	2.50E-02	2.50E-02	1.83E-01	1.93E-02	7.28E-03	1.05E-01	9.21E-04	3.00E-04	2.50E-02	1.58E-01
1.20E-02	9.37E-03	6.78E-02	2.33E-03	1.89E-02	1.89E-02	1.29E-01	1.20E-02	9.37E-03	6.78E-02	2.33E-03	3.12E-04	1.89E-02	1.11E-01
3.04E-03	1.06E-02	3.92E-02	1.08E-03	1.61E-02	1.61E-02	8.61E-02	3.04E-03	1.06E-02	3.92E-02	1.08E-03	3.08E-04	1.61E-02	7.03E-02
1.91E-03	1.01E-02	2.93E-02	7.86E-04	1.40E-02	1.40E-02	7.01E-02	1.91E-03	1.01E-02	2.93E-02	7.86E-04	3.21E-04	1.40E-02	5.64E-02
1.44E-03	1.01E-02	2.35E-02	6.37E-04	1.24E-02	1.24E-02	6.05E-02	1.44E-03	1.01E-02	2.35E-02	6.37E-04	3.27E-04	1.24E-02	4.84E-02

1.18E-03	1.04E-02	1.96E-02	5.34E-04	1.10E-02	1.10E-02	5.38E-02	1.18E-03	1.04E-02	1.96E-02	5.34E-04	3.18E-04	1.10E-02	4.31E-02
9.99E-04	1.04E-02	1.68E-02	4.58E-04	9.77E-03	9.77E-03	4.82E-02	9.99E-04	1.04E-02	1.68E-02	4.58E-04	3.02E-04	9.77E-03	3.87E-02
8.19E-04	8.99E-03	1.42E-02	3.92E-04	8.03E-03	8.03E-03	4.04E-02	8.19E-04	8.99E-03	1.42E-02	3.92E-04	2.84E-04	8.03E-03	3.27E-02
6.24E-04	6.59E-03	1.06E-02	3.10E-04	5.84E-03	5.84E-03	2.98E-02	6.24E-04	6.59E-03	1.06E-02	3.10E-04	2.47E-04	5.84E-03	2.42E-02
4.83E-04	4.93E-03	6.65E-03	2.03E-04	3.95E-03	3.95E-03	2.02E-02	4.83E-04	4.93E-03	6.65E-03	2.03E-04	1.67E-04	3.95E-03	1.64E-02
4.77E-04	5.39E-03	6.80E-03	2.09E-04	3.99E-03	3.99E-03	2.08E-02	4.77E-04	5.39E-03	6.80E-03	2.09E-04	1.79E-04	3.99E-03	1.70E-02
4.27E-04	5.00E-03	5.63E-03	1.74E-04	3.36E-03	3.36E-03	1.79E-02	4.27E-04	5.00E-03	5.63E-03	1.74E-04	1.51E-04	3.36E-03	1.47E-02
3.93E-04	4.78E-03	4.99E-03	1.54E-04	3.00E-03	3.00E-03	1.63E-02	3.93E-04	4.78E-03	4.99E-03	1.54E-04	1.37E-04	3.00E-03	1.35E-02
3.62E-04	4.43E-03	4.34E-03	1.34E-04	2.64E-03	2.64E-03	1.46E-02	3.62E-04	4.43E-03	4.34E-03	1.34E-04	1.21E-04	2.64E-03	1.20E-02
3.38E-04	4.11E-03	3.83E-03	1.19E-04	2.36E-03	2.36E-03	1.31E-02	3.38E-04	4.11E-03	3.83E-03	1.19E-04	1.08E-04	2.36E-03	1.09E-02
3.14E-04	3.69E-03	3.32E-03	1.02E-04	2.07E-03	2.07E-03	1.16E-02	3.14E-04	3.69E-03	3.32E-03	1.02E-04	9.45E-05	2.07E-03	9.59E-03
3.06E-04	3.58E-03	3.17E-03	9.82E-05	1.97E-03	1.97E-03	1.11E-02	3.06E-04	3.58E-03	3.17E-03	9.82E-05	9.18E-05	1.97E-03	9.21E-03
2.98E-04	3.44E-03	3.02E-03	9.35E-05	1.86E-03	1.86E-03	1.06E-02	2.98E-04	3.44E-03	3.02E-03	9.35E-05	8.84E-05	1.86E-03	8.80E-03
3.00E-04	3.54E-03	3.09E-03	9.64E-05	1.86E-03	1.86E-03	1.07E-02	3.00E-04	3.54E-03	3.09E-03	9.64E-05	9.19E-05	1.86E-03	8.98E-03
2.97E-04	3.50E-03	3.04E-03	9.54E-05	1.82E-03	1.82E-03	1.06E-02	2.97E-04	3.50E-03	3.04E-03	9.54E-05	9.18E-05	1.82E-03	8.85E-03
3.10E-04	3.80E-03	3.30E-03	1.04E-04	1.91E-03	1.91E-03	1.13E-02	3.10E-04	3.80E-03	3.30E-03	1.04E-04	9.99E-05	1.91E-03	9.52E-03
3.28E-04	4.19E-03	3.66E-03	1.14E-04	2.08E-03	2.08E-03	1.25E-02	3.28E-04	4.19E-03	3.66E-03	1.14E-04	1.10E-04	2.08E-03	1.05E-02
9.35E-05	1.46E-03	6.82E-04	2.07E-05	2.81E-04	2.81E-04	2.81E-03	9.35E-05	1.46E-03	6.82E-04	2.07E-05	1.83E-05	2.81E-04	2.55E-03
9.47E-05	1.48E-03	7.06E-04	2.17E-05	2.86E-04	2.86E-04	2.87E-03	9.47E-05	1.48E-03	7.06E-04	2.17E-05	1.91E-05	2.86E-04	2.61E-03
9.79E-05	1.54E-03	7.68E-04	2.34E-05	3.09E-04	3.09E-04	3.05E-03	9.79E-05	1.54E-03	7.68E-04	2.34E-05	2.04E-05	3.09E-04	2.76E-03
1.00E-04	1.59E-03	8.27E-04	2.51E-05	3.30E-04	3.30E-04	3.20E-03	1.00E-04	1.59E-03	8.27E-04	2.51E-05	2.18E-05	3.30E-04	2.89E-03
1.04E-04	1.67E-03	9.23E-04	2.73E-05	3.70E-04	3.70E-04	3.46E-03	1.04E-04	1.67E-03	9.23E-04	2.73E-05	2.38E-05	3.70E-04	3.12E-03
1.05E-04	1.69E-03	9.46E-04	2.85E-05	3.68E-04	3.68E-04	3.50E-03	1.05E-04	1.69E-03	9.46E-04	2.85E-05	2.51E-05	3.68E-04	3.16E-03
1.01E-04	1.60E-03	8.57E-04	2.78E-05	3.25E-04	3.25E-04	3.23E-03	1.01E-04	1.60E-03	8.57E-04	2.78E-05	2.48E-05	3.25E-04	2.93E-03
7.95E-05	8.80E-04	3.83E-04	1.43E-05	1.78E-04	1.78E-04	1.71E-03	7.95E-05	8.80E-04	3.83E-04	1.43E-05	1.28E-05	1.78E-04	1.55E-03
7.39E-05	6.08E-04	2.88E-04	1.02E-05	1.53E-04	1.53E-04	1.29E-03	7.39E-05	6.08E-04	2.88E-04	1.02E-05	9.32E-06	1.53E-04	1.14E-03
7.71E-05	6.91E-04	3.33E-04	1.21E-05	1.69E-04	1.69E-04	1.45E-03	7.71E-05	6.91E-04	3.33E-04	1.21E-05	1.08E-05	1.69E-04	1.29E-03
6.91E-05	3.75E-04	2.17E-04	7.25E-06	1.35E-04	1.35E-04	9.39E-04	6.91E-05	3.75E-04	2.17E-04	7.25E-06	6.67E-06	1.35E-04	8.10E-04
7.47E-05	4.94E-04	2.75E-04	9.52E-06	1.57E-04	1.57E-04	1.17E-03	7.47E-05	4.94E-04	2.75E-04	9.52E-06	8.45E-06	1.57E-04	1.02E-03
7.67E-05	5.07E-04	2.85E-04	9.87E-06	1.65E-04	1.65E-04	1.21E-03	7.67E-05	5.07E-04	2.85E-04	9.87E-06	8.95E-06	1.65E-04	1.05E-03
8.23E-05	6.48E-04	3.55E-04	1.28E-05	1.92E-04	1.92E-04	1.48E-03	8.23E-05	6.48E-04	3.55E-04	1.28E-05	1.16E-05	1.92E-04	1.30E-03
1.02E-04	1.29E-03	7.48E-04	2.92E-05	3.20E-04	3.20E-04	2.81E-03	1.02E-04	1.29E-03	7.48E-04	2.92E-05	2.68E-05	3.20E-04	2.51E-03
9.99E-05	1.08E-03	6.26E-04	2.46E-05	2.91E-04	2.91E-04	2.42E-03	9.99E-05	1.08E-03	6.26E-04	2.46E-05	2.22E-05	2.91E-04	2.15E-03
9.83E-05	8.59E-04	5.10E-04	1.95E-05	2.58E-04	2.58E-04	2.00E-03	9.83E-05	8.59E-04	5.10E-04	1.95E-05	1.76E-05	2.58E-04	1.76E-03
1.55E-04	2.26E-03	2.50E-03	7.28E-05	9.39E-04	9.39E-04	6.87E-03	1.55E-04	2.26E-03	2.50E-03	7.28E-05	7.03E-05	9.39E-04	6.00E-03
1.67E-04	2.35E-03	2.93E-03	8.17E-05	1.16E-03	1.16E-03	7.85E-03	1.67E-04	2.35E-03	2.93E-03	8.17E-05	7.83E-05	1.16E-03	6.77E-03
1.77E-04	2.43E-03	3.31E-03	9.07E-05	1.36E-03	1.36E-03	8.73E-03	1.77E-04	2.43E-03	3.31E-03	9.07E-05	8.59E-05	1.36E-03	7.46E-03
1.86E-04	2.49E-03	3.68E-03	1.00E-04	1.52E-03	1.52E-03	9.51E-03	1.86E-04	2.49E-03	3.68E-03	1.00E-04	9.47E-05	1.52E-03	8.08E-03
1.97E-04	2.54E-03	4.14E-03	1.12E-04	1.73E-03	1.73E-03	1.05E-02	1.97E-04	2.54E-03	4.14E-03	1.12E-04	1.05E-04	1.73E-03	8.82E-03
2.10E-04	2.59E-03	4.56E-03	1.24E-04	1.89E-03	1.89E-03	1.13E-02	2.10E-04	2.59E-03	4.56E-03	1.24E-04	1.17E-04	1.89E-03	9.50E-03
2.24E-04	2.69E-03	5.15E-03	1.38E-04	2.22E-03	2.22E-03	1.26E-02	2.24E-04	2.69E-03	5.15E-03	1.38E-04	1.31E-04	2.22E-03	1.06E-02
2.52E-04	2.91E-03	5.75E-03	1.43E-04	3.35E-03	3.35E-03	1.58E-02	2.52E-04	2.91E-03	5.75E-03	1.43E-04	1.34E-04	3.35E-03	1.25E-02
2.67E-04	3.07E-03	6.24E-03	1.55E-04	3.88E-03	3.88E-03	1.75E-02	2.67E-04	3.07E-03	6.24E-03	1.55E-04	1.43E-04	3.88E-03	1.37E-02
2.85E-04	3.26E-03	6.94E-03	1.70E-04	4.57E-03	4.57E-03	1.98E-02	2.85E-04	3.26E-03	6.94E-03	1.70E-04	1.56E-04	4.57E-03	1.54E-02
3.08E-04	3.49E-03	7.73E-03	1.87E-04	5.58E-03	5.58E-03	2.29E-02	3.08E-04	3.49E-03	7.73E-03	1.87E-04	1.67E-04	5.58E-03	1.75E-02
3.44E-04	3.82E-03	8.60E-03	2.05E-04	7.38E-03	7.38E-03	2.77E-02	3.44E-04	3.82E-03	8.60E-03	2.05E-04	1.75E-04	7.38E-03	2.05E-02
3.93E-04	4.28E-03	9.69E-03	2.26E-04	1.17E-02	1.17E-02	3.79E-02	3.93E-04	4.28E-03	9.69E-03	2.26E-04	1.80E-04	1.17E-02	2.64E-02
4.56E-04	4.87E-03	1.07E-02	2.49E-04	5.82E-02	5.82E-02	1.33E-01	4.56E-04	4.87E-03	1.07E-02	2.49E-04	1.77E-04	5.82E-02	7.47E-02
5.49E-04	5.73E-03	1.20E-02	2.77E-04	8.46E-02	8.46E-02	1.88E-01	5.49E-04	5.73E-03	1.20E-02	2.77E-04	1.78E-04	8.46E-02	1.03E-01
7.12E-04	7.17E-03	1.38E-02	3.20E-04	8.65E-02	8.65E-02	1.95E-01	7.12E-04	7.17E-03	1.38E-02	3.20E-04	2.02E-04	8.65E-02	1.09E-01
1.03E-03	9.61E-03	1.52E-02	3.82E-04	4.22E-02	4.22E-02	1.11E-01	1.03E-03	9.61E-03	1.52E-02	3.82E-04	2.01E-04	4.22E-02	6.86E-02
2.19E-03	1.61E-02	1.71E-02	5.53E-04	7.15E-02	7.15E-02	1.79E-01	2.19E-03	1.61E-02	1.71E-02	5.53E-04	2.09E-04	7.15E-02	1.08E-01
2.33E-02	7.53E-02	2.97E-02	2.01E-03	3.43E-02	3.43E-02	1.99E-01	2.33E-02	7.53E-02	2.97E-02	2.01E-03	2.17E-04	3.43E-02	1.65E-01
4.39E-03	7.12E-02	1.74E-02	6.89E-04	2.32E-02	2.32E-02	1.40E-01	4.39E-03	7.12E-02	1.74E-02	6.89E-04	2.06E-04	2.32E-02	1.17E-01

2.46E-03	4.58E-02	1.55E-02	4.81E-04	1.78E-02	1.78E-02	9.98E-02	2.46E-03	4.58E-02	1.55E-02	4.81E-04	2.07E-04	1.78E-02	8.22E-02
1.70E-03	3.22E-02	1.40E-02	3.98E-04	1.39E-02	1.39E-02	7.60E-02	1.70E-03	3.22E-02	1.40E-02	3.98E-04	2.19E-04	1.39E-02	6.24E-02
1.21E-03	2.12E-02	1.22E-02	3.39E-04	1.03E-02	1.03E-02	5.56E-02	1.21E-03	2.12E-02	1.22E-02	3.39E-04	2.25E-04	1.03E-02	4.55E-02
8.68E-04	1.35E-02	9.74E-03	2.79E-04	7.27E-03	7.27E-03	3.90E-02	8.68E-04	1.35E-02	9.74E-03	2.79E-04	2.10E-04	7.27E-03	3.19E-02
6.61E-04	9.48E-03	6.86E-03	2.08E-04	5.17E-03	5.17E-03	2.75E-02	6.61E-04	9.48E-03	6.86E-03	2.08E-04	1.66E-04	5.17E-03	2.25E-02
6.47E-04	1.01E-02	7.46E-03	2.20E-04	5.33E-03	5.33E-03	2.91E-02	6.47E-04	1.01E-02	7.46E-03	2.20E-04	1.78E-04	5.33E-03	2.40E-02
6.57E-04	1.13E-02	7.84E-03	2.24E-04	5.53E-03	5.53E-03	3.11E-02	6.57E-04	1.13E-02	7.84E-03	2.24E-04	1.82E-04	5.53E-03	2.57E-02
5.82E-04	9.76E-03	6.91E-03	2.01E-04	4.75E-03	4.75E-03	2.70E-02	5.82E-04	9.76E-03	6.91E-03	2.01E-04	1.69E-04	4.75E-03	2.24E-02
4.98E-04	7.91E-03	5.54E-03	1.67E-04	3.78E-03	3.78E-03	2.17E-02	4.98E-04	7.91E-03	5.54E-03	1.67E-04	1.44E-04	3.78E-03	1.80E-02
4.55E-04	7.17E-03	4.99E-03	1.52E-04	3.38E-03	3.38E-03	1.95E-02	4.55E-04	7.17E-03	4.99E-03	1.52E-04	1.33E-04	3.38E-03	1.63E-02
4.14E-04	6.41E-03	4.40E-03	1.35E-04	2.95E-03	2.95E-03	1.72E-02	4.14E-04	6.41E-03	4.40E-03	1.35E-04	1.20E-04	2.95E-03	1.44E-02
3.81E-04	5.68E-03	3.88E-03	1.20E-04	2.58E-03	2.58E-03	1.52E-02	3.81E-04	5.68E-03	3.88E-03	1.20E-04	1.07E-04	2.58E-03	1.27E-02
3.61E-04	5.23E-03	3.61E-03	1.12E-04	2.37E-03	2.37E-03	1.41E-02	3.61E-04	5.23E-03	3.61E-03	1.12E-04	1.02E-04	2.37E-03	1.18E-02
3.50E-04	4.96E-03	3.49E-03	1.08E-04	2.26E-03	2.26E-03	1.34E-02	3.50E-04	4.96E-03	3.49E-03	1.08E-04	9.98E-05	2.26E-03	1.13E-02
3.41E-04	4.70E-03	3.39E-03	1.05E-04	2.16E-03	2.16E-03	1.29E-02	3.41E-04	4.70E-03	3.39E-03	1.05E-04	9.81E-05	2.16E-03	1.08E-02
3.34E-04	4.47E-03	3.29E-03	1.02E-04	2.07E-03	2.07E-03	1.23E-02	3.34E-04	4.47E-03	3.29E-03	1.02E-04	9.61E-05	2.07E-03	1.04E-02
3.49E-04	4.78E-03	3.60E-03	1.10E-04	2.22E-03	2.22E-03	1.33E-02	3.49E-04	4.78E-03	3.60E-03	1.10E-04	1.05E-04	2.22E-03	1.12E-02
3.66E-04	5.12E-03	3.86E-03	1.15E-04	2.38E-03	2.38E-03	1.42E-02	3.66E-04	5.12E-03	3.86E-03	1.15E-04	1.11E-04	2.38E-03	1.20E-02
9.07E-05	1.38E-03	6.97E-04	2.10E-05	2.82E-04	2.82E-04	2.75E-03	9.07E-05	1.38E-03	6.97E-04	2.10E-05	1.81E-05	2.82E-04	2.49E-03
9.31E-05	1.41E-03	7.37E-04	2.22E-05	2.96E-04	2.96E-04	2.86E-03	9.31E-05	1.41E-03	7.37E-04	2.22E-05	1.93E-05	2.96E-04	2.58E-03
9.55E-05	1.47E-03	8.04E-04	2.38E-05	3.22E-04	3.22E-04	3.04E-03	9.55E-05	1.47E-03	8.04E-04	2.38E-05	2.09E-05	3.22E-04	2.74E-03
9.83E-05	1.52E-03	8.65E-04	2.54E-05	3.43E-04	3.43E-04	3.20E-03	9.83E-05	1.52E-03	8.65E-04	2.54E-05	2.25E-05	3.43E-04	2.88E-03
1.01E-04	1.58E-03	9.40E-04	2.71E-05	3.72E-04	3.72E-04	3.40E-03	1.01E-04	1.58E-03	9.40E-04	2.71E-05	2.42E-05	3.72E-04	3.05E-03
1.03E-04	1.62E-03	9.87E-04	2.87E-05	3.85E-04	3.85E-04	3.51E-03	1.03E-04	1.62E-03	9.87E-04	2.87E-05	2.57E-05	3.85E-04	3.15E-03
9.83E-05	1.53E-03	8.78E-04	2.79E-05	3.33E-04	3.33E-04	3.20E-03	9.83E-05	1.53E-03	8.78E-04	2.79E-05	2.53E-05	3.33E-04	2.89E-03
8.87E-05	1.24E-03	6.14E-04	2.25E-05	2.46E-04	2.46E-04	2.45E-03	8.87E-05	1.24E-03	6.14E-04	2.25E-05	2.01E-05	2.46E-04	2.23E-03
7.79E-05	8.43E-04	3.90E-04	1.49E-05	1.78E-04	1.78E-04	1.68E-03	7.79E-05	8.43E-04	3.90E-04	1.49E-05	1.30E-05	1.78E-04	1.52E-03
6.99E-05	5.07E-04	2.58E-04	9.20E-06	1.42E-04	1.42E-04	1.13E-03	6.99E-05	5.07E-04	2.58E-04	9.20E-06	8.20E-06	1.42E-04	9.93E-04
6.87E-05	4.30E-04	2.35E-04	8.13E-06	1.36E-04	1.36E-04	1.01E-03	6.87E-05	4.30E-04	2.35E-04	8.13E-06	7.44E-06	1.36E-04	8.86E-04
6.59E-05	3.23E-04	1.94E-04	6.50E-06	1.25E-04	1.25E-04	8.40E-04	6.59E-05	3.23E-04	1.94E-04	6.50E-06	6.08E-06	1.25E-04	7.21E-04
6.87E-05	3.55E-04	2.11E-04	7.22E-06	1.35E-04	1.35E-04	9.11E-04	6.87E-05	3.55E-04	2.11E-04	7.22E-06	6.73E-06	1.35E-04	7.83E-04
8.07E-05	7.41E-04	3.91E-04	1.47E-05	1.96E-04	1.96E-04	1.62E-03	8.07E-05	7.41E-04	3.91E-04	1.47E-05	1.35E-05	1.96E-04	1.44E-03
9.31E-05	1.12E-03	6.39E-04	2.54E-05	2.80E-04	2.80E-04	2.43E-03	9.31E-05	1.12E-03	6.39E-04	2.54E-05	2.32E-05	2.80E-04	2.18E-03
1.10E-04	1.53E-03	1.11E-03	4.13E-05	4.28E-04	4.28E-04	3.65E-03	1.10E-04	1.53E-03	1.11E-03	4.13E-05	3.96E-05	4.28E-04	3.26E-03
1.26E-04	1.83E-03	1.66E-03	5.51E-05	6.05E-04	6.05E-04	4.88E-03	1.26E-04	1.83E-03	1.66E-03	5.51E-05	5.38E-05	6.05E-04	4.33E-03
1.40E-04	2.02E-03	2.19E-03	6.58E-05	8.09E-04	8.09E-04	6.03E-03	1.40E-04	2.02E-03	2.19E-03	6.58E-05	6.34E-05	8.09E-04	5.29E-03
1.53E-04	2.16E-03	2.67E-03	7.51E-05	1.06E-03	1.06E-03	7.20E-03	1.53E-04	2.16E-03	2.67E-03	7.51E-05	7.01E-05	1.06E-03	6.20E-03
1.64E-04	2.27E-03	3.02E-03	8.26E-05	1.29E-03	1.29E-03	8.10E-03	1.64E-04	2.27E-03	3.02E-03	8.26E-05	7.62E-05	1.29E-03	6.90E-03
1.73E-04	2.33E-03	3.35E-03	9.09E-05	1.48E-03	1.48E-03	8.91E-03	1.73E-04	2.33E-03	3.35E-03	9.09E-05	8.33E-05	1.48E-03	7.51E-03
1.81E-04	2.38E-03	3.70E-03	9.99E-05	1.68E-03	1.68E-03	9.73E-03	1.81E-04	2.38E-03	3.70E-03	9.99E-05	9.09E-05	1.68E-03	8.13E-03
1.92E-04	2.45E-03	4.04E-03	1.09E-04	1.86E-03	1.86E-03	1.05E-02	1.92E-04	2.45E-03	4.04E-03	1.09E-04	9.94E-05	1.86E-03	8.74E-03
2.03E-04	2.55E-03	4.47E-03	1.19E-04	2.18E-03	2.18E-03	1.17E-02	2.03E-04	2.55E-03	4.47E-03	1.19E-04	1.08E-04	2.18E-03	9.63E-03
2.22E-04	2.72E-03	4.92E-03	1.27E-04	2.77E-03	2.77E-03	1.35E-02	2.22E-04	2.72E-03	4.92E-03	1.27E-04	1.14E-04	2.77E-03	1.09E-02
2.38E-04	2.88E-03	5.09E-03	1.29E-04	3.35E-03	3.35E-03	1.50E-02	2.38E-04	2.88E-03	5.09E-03	1.29E-04	1.18E-04	3.35E-03	1.18E-02
2.57E-04	3.07E-03	5.53E-03	1.40E-04	3.93E-03	3.93E-03	1.69E-02	2.57E-04	3.07E-03	5.53E-03	1.40E-04	1.26E-04	3.93E-03	1.31E-02
2.78E-04	3.31E-03	6.03E-03	1.50E-04	4.74E-03	4.74E-03	1.93E-02	2.78E-04	3.31E-03	6.03E-03	1.50E-04	1.33E-04	4.74E-03	1.46E-02
3.06E-04	3.62E-03	6.48E-03	1.61E-04	6.08E-03	6.08E-03	2.27E-02	3.06E-04	3.62E-03	6.48E-03	1.61E-04	1.34E-04	6.08E-03	1.68E-02
3.38E-04	4.06E-03	6.89E-03	1.72E-04	8.52E-03	8.52E-03	2.85E-02	3.38E-04	4.06E-03	6.89E-03	1.72E-04	1.33E-04	8.52E-03	2.01E-02
3.74E-04	4.68E-03	7.32E-03	1.84E-04	1.39E-02	1.39E-02	4.04E-02	3.74E-04	4.68E-03	7.32E-03	1.84E-04	1.32E-04	1.39E-02	2.66E-02
4.22E-04	5.56E-03	7.70E-03	1.94E-04	5.61E-02	5.61E-02	1.26E-01	4.22E-04	5.56E-03	7.70E-03	1.94E-04	1.30E-04	5.61E-02	7.01E-02
4.93E-04	7.00E-03	8.07E-03	2.06E-04	7.33E-02	7.33E-02	1.62E-01	4.93E-04	7.00E-03	8.07E-03	2.06E-04	1.37E-04	7.33E-02	8.92E-02
6.08E-04	9.87E-03	8.47E-03	2.26E-04	7.85E-02	7.85E-02	1.76E-01	6.08E-04	9.87E-03	8.47E-03	2.26E-04	1.44E-04	7.85E-02	9.79E-02
8.14E-04	1.55E-02	8.92E-03	2.46E-04	9.20E-02	9.20E-02	2.10E-01	8.14E-04	1.55E-02	8.92E-03	2.46E-04	1.57E-04	9.20E-02	1.18E-01
1.29E-03	3.13E-02	9.19E-03	2.59E-04	6.06E-02	6.06E-02	1.63E-01	1.29E-03	3.13E-02	9.19E-03	2.59E-04	1.66E-04	6.06E-02	1.03E-01

3.56E-03	8.45E-02	8.87E-03	2.62E-04	3.01E-02	3.01E-02	1.57E-01	3.56E-03	8.45E-02	8.87E-03	2.62E-04	1.68E-04	3.01E-02	1.27E-01
1.20E-02	2.94E-01	9.12E-03	2.54E-04	2.09E-02	2.09E-02	3.57E-01	1.20E-02	2.94E-01	9.12E-03	2.54E-04	1.56E-04	2.09E-02	3.37E-01
3.77E-03	1.01E-01	9.21E-03	2.46E-04	1.58E-02	1.58E-02	1.46E-01	3.77E-03	1.01E-01	9.21E-03	2.46E-04	1.51E-04	1.58E-02	1.30E-01
2.06E-03	4.97E-02	8.73E-03	2.32E-04	1.14E-02	1.14E-02	8.36E-02	2.06E-03	4.97E-02	8.73E-03	2.32E-04	1.57E-04	1.14E-02	7.23E-02
1.22E-03	2.47E-02	7.08E-03	1.99E-04	7.24E-03	7.24E-03	4.77E-02	1.22E-03	2.47E-02	7.08E-03	1.99E-04	1.57E-04	7.24E-03	4.06E-02
1.15E-03	2.62E-02	7.61E-03	2.11E-04	7.71E-03	7.71E-03	5.06E-02	1.15E-03	2.62E-02	7.61E-03	2.11E-04	1.65E-04	7.71E-03	4.31E-02
9.79E-04	2.23E-02	7.19E-03	2.01E-04	6.84E-03	6.84E-03	4.44E-02	9.79E-04	2.23E-02	7.19E-03	2.01E-04	1.61E-04	6.84E-03	3.77E-02
8.74E-04	2.00E-02	6.85E-03	1.91E-04	6.24E-03	6.24E-03	4.04E-02	8.74E-04	2.00E-02	6.85E-03	1.91E-04	1.54E-04	6.24E-03	3.43E-02
7.35E-04	1.58E-02	6.24E-03	1.76E-04	5.26E-03	5.26E-03	3.35E-02	7.35E-04	1.58E-02	6.24E-03	1.76E-04	1.45E-04	5.26E-03	2.84E-02
6.66E-04	1.39E-02	5.92E-03	1.67E-04	4.78E-03	4.78E-03	3.02E-02	6.66E-04	1.39E-02	5.92E-03	1.67E-04	1.40E-04	4.78E-03	2.56E-02
5.96E-04	1.18E-02	5.46E-03	1.55E-04	4.20E-03	4.20E-03	2.64E-02	5.96E-04	1.18E-02	5.46E-03	1.55E-04	1.33E-04	4.20E-03	2.23E-02
5.12E-04	9.27E-03	4.70E-03	1.38E-04	3.45E-03	3.45E-03	2.15E-02	5.12E-04	9.27E-03	4.70E-03	1.38E-04	1.20E-04	3.45E-03	1.82E-02
4.77E-04	8.34E-03	4.45E-03	1.31E-04	3.17E-03	3.17E-03	1.97E-02	4.77E-04	8.34E-03	4.45E-03	1.31E-04	1.15E-04	3.17E-03	1.67E-02
4.38E-04	7.31E-03	4.09E-03	1.22E-04	2.85E-03	2.85E-03	1.77E-02	4.38E-04	7.31E-03	4.09E-03	1.22E-04	1.08E-04	2.85E-03	1.49E-02
4.22E-04	6.86E-03	4.00E-03	1.19E-04	2.73E-03	2.73E-03	1.69E-02	4.22E-04	6.86E-03	4.00E-03	1.19E-04	1.07E-04	2.73E-03	1.42E-02
3.89E-04	5.90E-03	3.57E-03	1.08E-04	2.39E-03	2.39E-03	1.48E-02	3.89E-04	5.90E-03	3.57E-03	1.08E-04	9.79E-05	2.39E-03	1.25E-02
3.89E-04	5.80E-03	3.65E-03	1.09E-04	2.41E-03	2.41E-03	1.48E-02	3.89E-04	5.80E-03	3.65E-03	1.09E-04	1.00E-04	2.41E-03	1.25E-02
4.03E-04	6.03E-03	3.85E-03	1.12E-04	2.55E-03	2.55E-03	1.55E-02	4.03E-04	6.03E-03	3.85E-03	1.12E-04	1.04E-04	2.55E-03	1.31E-02
4.17E-04	6.14E-03	3.90E-03	1.11E-04	2.62E-03	2.62E-03	1.58E-02	4.17E-04	6.14E-03	3.90E-03	1.11E-04	1.04E-04	2.62E-03	1.33E-02
8.87E-05	1.31E-03	7.23E-04	2.13E-05	2.95E-04	2.95E-04	2.74E-03	8.87E-05	1.31E-03	7.23E-04	2.13E-05	1.89E-05	2.95E-04	2.46E-03
9.11E-05	1.36E-03	7.72E-04	2.25E-05	3.13E-04	3.13E-04	2.87E-03	9.11E-05	1.36E-03	7.72E-04	2.25E-05	2.01E-05	3.13E-04	2.57E-03
9.27E-05	1.39E-03	8.14E-04	2.37E-05	3.27E-04	3.27E-04	2.98E-03	9.27E-05	1.39E-03	8.14E-04	2.37E-05	2.13E-05	3.27E-04	2.67E-03
9.55E-05	1.45E-03	8.79E-04	2.53E-05	3.55E-04	3.55E-04	3.16E-03	9.55E-05	1.45E-03	8.79E-04	2.53E-05	2.28E-05	3.55E-04	2.82E-03
9.79E-05	1.50E-03	9.42E-04	2.71E-05	3.85E-04	3.85E-04	3.33E-03	9.79E-05	1.50E-03	9.42E-04	2.71E-05	2.43E-05	3.85E-04	2.97E-03
1.00E-04	1.54E-03	9.96E-04	2.88E-05	4.08E-04	4.08E-04	3.48E-03	1.00E-04	1.54E-03	9.96E-04	2.88E-05	2.59E-05	4.08E-04	3.10E-03
9.75E-05	1.49E-03	9.36E-04	2.92E-05	3.69E-04	3.69E-04	3.29E-03	9.75E-05	1.49E-03	9.36E-04	2.92E-05	2.63E-05	3.69E-04	2.95E-03
9.19E-05	1.36E-03	7.90E-04	2.74E-05	3.09E-04	3.09E-04	2.89E-03	9.19E-05	1.36E-03	7.90E-04	2.74E-05	2.48E-05	3.09E-04	2.60E-03
7.95E-05	9.61E-04	4.71E-04	1.82E-05	2.01E-04	2.01E-04	1.93E-03	7.95E-05	9.61E-04	4.71E-04	1.82E-05	1.64E-05	2.01E-04	1.75E-03
6.75E-05	4.85E-04	2.48E-04	8.90E-06	1.34E-04	1.34E-04	1.08E-03	6.75E-05	4.85E-04	2.48E-04	8.90E-06	8.06E-06	1.34E-04	9.51E-04
5.99E-05	2.58E-04	1.57E-04	5.22E-06	1.04E-04	1.04E-04	6.90E-04	5.99E-05	2.58E-04	1.57E-04	5.22E-06	4.84E-06	1.04E-04	5.90E-04
6.31E-05	3.08E-04	1.81E-04	6.18E-06	1.18E-04	1.18E-04	7.94E-04	6.31E-05	3.08E-04	1.81E-04	6.18E-06	5.69E-06	1.18E-04	6.82E-04
6.55E-05	3.32E-04	1.93E-04	6.75E-06	1.26E-04	1.26E-04	8.49E-04	6.55E-05	3.32E-04	1.93E-04	6.75E-06	6.25E-06	1.26E-04	7.29E-04
7.59E-05	6.57E-04	3.46E-04	1.32E-05	1.81E-04	1.81E-04	1.45E-03	7.59E-05	6.57E-04	3.46E-04	1.32E-05	1.20E-05	1.81E-04	1.28E-03
8.91E-05	1.07E-03	6.29E-04	2.50E-05	2.79E-04	2.79E-04	2.37E-03	8.91E-05	1.07E-03	6.29E-04	2.50E-05	2.33E-05	2.79E-04	2.12E-03
1.05E-04	1.45E-03	1.09E-03	3.98E-05	4.37E-04	4.37E-04	3.56E-03	1.05E-04	1.45E-03	1.09E-03	3.98E-05	3.83E-05	4.37E-04	3.16E-03
1.23E-04	1.76E-03	1.69E-03	5.35E-05	6.44E-04	6.44E-04	4.91E-03	1.23E-04	1.76E-03	1.69E-03	5.35E-05	5.11E-05	6.44E-04	4.32E-03
1.36E-04	1.92E-03	2.14E-03	6.23E-05	8.48E-04	8.48E-04	5.96E-03	1.36E-04	1.92E-03	2.14E-03	6.23E-05	5.76E-05	8.48E-04	5.17E-03
1.47E-04	2.05E-03	2.49E-03	6.92E-05	1.08E-03	1.08E-03	6.92E-03	1.47E-04	2.05E-03	2.49E-03	6.92E-05	6.26E-05	1.08E-03	5.90E-03
1.56E-04	2.14E-03	2.75E-03	7.51E-05	1.26E-03	1.26E-03	7.64E-03	1.56E-04	2.14E-03	2.75E-03	7.51E-05	6.77E-05	1.26E-03	6.45E-03
1.63E-04	2.20E-03	3.01E-03	8.15E-05	1.43E-03	1.43E-03	8.32E-03	1.63E-04	2.20E-03	3.01E-03	8.15E-05	7.22E-05	1.43E-03	6.96E-03
1.71E-04	2.26E-03	3.27E-03	8.81E-05	1.60E-03	1.60E-03	8.99E-03	1.71E-04	2.26E-03	3.27E-03	8.81E-05	7.74E-05	1.60E-03	7.46E-03
1.79E-04	2.34E-03	3.54E-03	9.46E-05	1.80E-03	1.80E-03	9.75E-03	1.79E-04	2.34E-03	3.54E-03	9.46E-05	8.42E-05	1.80E-03	8.04E-03
1.87E-04	2.43E-03	3.84E-03	1.02E-04	2.04E-03	2.04E-03	1.06E-02	1.87E-04	2.43E-03	3.84E-03	1.02E-04	9.13E-05	2.04E-03	8.69E-03
1.98E-04	2.56E-03	4.12E-03	1.09E-04	2.33E-03	2.33E-03	1.17E-02	1.98E-04	2.56E-03	4.12E-03	1.09E-04	9.82E-05	2.33E-03	9.42E-03
2.12E-04	2.74E-03	4.25E-03	1.11E-04	2.91E-03	2.91E-03	1.31E-02	2.12E-04	2.74E-03	4.25E-03	1.11E-04	9.99E-05	2.91E-03	1.03E-02
2.24E-04	2.92E-03	4.46E-03	1.16E-04	3.36E-03	3.36E-03	1.44E-02	2.24E-04	2.92E-03	4.46E-03	1.16E-04	1.04E-04	3.36E-03	1.12E-02
2.39E-04	3.14E-03	4.74E-03	1.23E-04	3.97E-03	3.97E-03	1.62E-02	2.39E-04	3.14E-03	4.74E-03	1.23E-04	1.07E-04	3.97E-03	1.23E-02
2.59E-04	3.44E-03	4.98E-03	1.30E-04	4.84E-03	4.84E-03	1.85E-02	2.59E-04	3.44E-03	4.98E-03	1.30E-04	1.06E-04	4.84E-03	1.38E-02
2.86E-04	3.85E-03	5.18E-03	1.36E-04	6.17E-03	6.17E-03	2.18E-02	2.86E-04	3.85E-03	5.18E-03	1.36E-04	1.03E-04	6.17E-03	1.57E-02
3.20E-04	4.45E-03	5.36E-03	1.41E-04	8.00E-03	8.00E-03	2.63E-02	3.20E-04	4.45E-03	5.36E-03	1.41E-04	1.03E-04	8.00E-03	1.84E-02
3.59E-04	5.37E-03	5.57E-03	1.46E-04	1.07E-02	1.07E-02	3.28E-02	3.59E-04	5.37E-03	5.57E-03	1.46E-04	1.02E-04	1.07E-02	2.22E-02
4.02E-04	6.57E-03	5.58E-03	1.48E-04	1.57E-02	1.57E-02	4.41E-02	4.02E-04	6.57E-03	5.58E-03	1.48E-04	1.04E-04	1.57E-02	2.85E-02
4.61E-04	8.60E-03	5.80E-03	1.58E-04	6.55E-02	6.55E-02	1.46E-01	4.61E-04	8.60E-03	5.80E-03	1.58E-04	1.12E-04	6.55E-02	8.06E-02
5.32E-04	1.17E-02	5.91E-03	1.59E-04	8.11E-02	8.11E-02	1.80E-01	5.32E-04	1.17E-02	5.91E-03	1.59E-04	1.21E-04	8.11E-02	9.95E-02

6.65E-04	1.72E-02	6.19E-03	1.63E-04	3.54E-02	3.54E-02	9.50E-02	6.65E-04	1.72E-02	6.19E-03	1.63E-04	1.37E-04	3.54E-02	5.97E-02
9.07E-04	2.63E-02	6.28E-03	1.68E-04	2.56E-02	2.56E-02	8.47E-02	9.07E-04	2.63E-02	6.28E-03	1.68E-04	1.29E-04	2.56E-02	5.93E-02
1.44E-03	4.40E-02	5.98E-03	1.69E-04	2.00E-02	2.00E-02	9.15E-02	1.44E-03	4.40E-02	5.98E-03	1.69E-04	1.29E-04	2.00E-02	7.17E-02
3.24E-03	8.59E-02	5.86E-03	1.59E-04	1.62E-02	1.62E-02	1.27E-01	3.24E-03	8.59E-02	5.86E-03	1.59E-04	1.20E-04	1.62E-02	1.11E-01
2.60E-02	4.24E-01	6.17E-03	1.60E-04	1.29E-02	1.29E-02	4.82E-01	2.60E-02	4.24E-01	6.17E-03	1.60E-04	1.15E-04	1.29E-02	4.69E-01
4.79E-03	1.36E-01	6.23E-03	1.59E-04	1.09E-02	1.09E-02	1.69E-01	4.79E-03	1.36E-01	6.23E-03	1.59E-04	1.15E-04	1.09E-02	1.58E-01
2.42E-03	7.04E-02	6.15E-03	1.59E-04	9.14E-03	9.14E-03	9.74E-02	2.42E-03	7.04E-02	6.15E-03	1.59E-04	1.20E-04	9.14E-03	8.84E-02
1.64E-03	4.73E-02	5.98E-03	1.58E-04	7.85E-03	7.85E-03	7.08E-02	1.64E-03	4.73E-02	5.98E-03	1.58E-04	1.25E-04	7.85E-03	6.30E-02
1.20E-03	3.28E-02	5.71E-03	1.54E-04	6.63E-03	6.63E-03	5.31E-02	1.20E-03	3.28E-02	5.71E-03	1.54E-04	1.28E-04	6.63E-03	4.66E-02
9.90E-04	2.52E-02	5.45E-03	1.49E-04	5.81E-03	5.81E-03	4.34E-02	9.90E-04	2.52E-02	5.45E-03	1.49E-04	1.25E-04	5.81E-03	3.78E-02
8.49E-04	2.00E-02	5.19E-03	1.43E-04	5.15E-03	5.15E-03	3.65E-02	8.49E-04	2.00E-02	5.19E-03	1.43E-04	1.21E-04	5.15E-03	3.15E-02
7.31E-04	1.57E-02	4.89E-03	1.36E-04	4.49E-03	4.49E-03	3.05E-02	7.31E-04	1.57E-02	4.89E-03	1.36E-04	1.16E-04	4.49E-03	2.61E-02
6.68E-04	1.34E-02	4.69E-03	1.31E-04	4.10E-03	4.10E-03	2.71E-02	6.68E-04	1.34E-02	4.69E-03	1.31E-04	1.12E-04	4.10E-03	2.31E-02
6.04E-04	1.12E-02	4.45E-03	1.24E-04	3.68E-03	3.68E-03	2.38E-02	6.04E-04	1.12E-02	4.45E-03	1.24E-04	1.08E-04	3.68E-03	2.02E-02
5.49E-04	9.50E-03	4.20E-03	1.18E-04	3.30E-03	3.30E-03	2.10E-02	5.49E-04	9.50E-03	4.20E-03	1.18E-04	1.04E-04	3.30E-03	1.78E-02
4.87E-04	7.74E-03	3.81E-03	1.10E-04	2.83E-03	2.83E-03	1.78E-02	4.87E-04	7.74E-03	3.81E-03	1.10E-04	9.76E-05	2.83E-03	1.51E-02
4.05E-04	5.58E-03	2.93E-03	8.85E-05	2.10E-03	2.10E-03	1.32E-02	4.05E-04	5.58E-03	2.93E-03	8.85E-05	7.92E-05	2.10E-03	1.12E-02
4.29E-04	6.16E-03	3.42E-03	9.95E-05	2.39E-03	2.39E-03	1.49E-02	4.29E-04	6.16E-03	3.42E-03	9.95E-05	8.96E-05	2.39E-03	1.26E-02
4.63E-04	6.71E-03	3.68E-03	1.03E-04	2.64E-03	2.64E-03	1.62E-02	4.63E-04	6.71E-03	3.68E-03	1.03E-04	9.26E-05	2.64E-03	1.37E-02
4.81E-04	6.68E-03	3.65E-03	9.92E-05	2.68E-03	2.68E-03	1.63E-02	4.81E-04	6.68E-03	3.65E-03	9.92E-05	9.16E-05	2.68E-03	1.37E-02
8.67E-05	1.26E-03	7.38E-04	2.13E-05	3.09E-04	3.09E-04	2.72E-03	8.67E-05	1.26E-03	7.38E-04	2.13E-05	1.93E-05	3.09E-04	2.43E-03
8.83E-05	1.30E-03	7.81E-04	2.25E-05	3.26E-04	3.26E-04	2.84E-03	8.83E-05	1.30E-03	7.81E-04	2.25E-05	2.04E-05	3.26E-04	2.53E-03
9.07E-05	1.34E-03	8.30E-04	2.39E-05	3.50E-04	3.50E-04	2.98E-03	9.07E-05	1.34E-03	8.30E-04	2.39E-05	2.17E-05	3.50E-04	2.66E-03
9.31E-05	1.38E-03	8.84E-04	2.55E-05	3.79E-04	3.79E-04	3.15E-03	9.31E-05	1.38E-03	8.84E-04	2.55E-05	2.30E-05	3.79E-04	2.79E-03
9.55E-05	1.43E-03	9.35E-04	2.71E-05	4.06E-04	4.06E-04	3.29E-03	9.55E-05	1.43E-03	9.35E-04	2.71E-05	2.46E-05	4.06E-04	2.91E-03
9.71E-05	1.46E-03	9.80E-04	2.87E-05	4.24E-04	4.24E-04	3.41E-03	9.71E-05	1.46E-03	9.80E-04	2.87E-05	2.64E-05	4.24E-04	3.02E-03
9.75E-05	1.47E-03	9.95E-04	2.98E-05	4.18E-04	4.18E-04	3.43E-03	9.75E-05	1.47E-03	9.95E-04	2.98E-05	2.83E-05	4.18E-04	3.04E-03
9.63E-05	1.45E-03	9.68E-04	3.03E-05	4.00E-04	4.00E-04	3.34E-03	9.63E-05	1.45E-03	9.68E-04	3.03E-05	2.98E-05	4.00E-04	2.97E-03
9.15E-05	1.34E-03	8.47E-04	2.85E-05	3.46E-04	3.46E-04	3.00E-03	9.15E-05	1.34E-03	8.47E-04	2.85E-05	2.84E-05	3.46E-04	2.68E-03
8.67E-05	1.18E-03	6.90E-04	2.50E-05	2.85E-04	2.85E-04	2.55E-03	8.67E-05	1.18E-03	6.90E-04	2.50E-05	2.46E-05	2.85E-04	2.29E-03
7.99E-05	9.76E-04	5.26E-04	2.01E-05	2.29E-04	2.29E-04	2.06E-03	7.99E-05	9.76E-04	5.26E-04	2.01E-05	1.91E-05	2.29E-04	1.85E-03
7.79E-05	8.86E-04	4.69E-04	1.83E-05	2.13E-04	2.13E-04	1.88E-03	7.79E-05	8.86E-04	4.69E-04	1.83E-05	1.70E-05	2.13E-04	1.68E-03
6.91E-05	5.41E-04	2.83E-04	1.07E-05	1.58E-04	1.58E-04	1.22E-03	6.91E-05	5.41E-04	2.83E-04	1.07E-05	9.86E-06	1.58E-04	1.07E-03
7.43E-05	6.82E-04	3.60E-04	1.40E-05	1.86E-04	1.86E-04	1.50E-03	7.43E-05	6.82E-04	3.60E-04	1.40E-05	1.30E-05	1.86E-04	1.33E-03
8.83E-05	1.12E-03	7.04E-04	2.73E-05	3.02E-04	3.02E-04	2.54E-03	8.83E-05	1.12E-03	7.04E-04	2.73E-05	2.56E-05	3.02E-04	2.27E-03
1.02E-04	1.41E-03	1.11E-03	3.91E-05	4.29E-04	4.29E-04	3.52E-03	1.02E-04	1.41E-03	1.11E-03	3.91E-05	3.68E-05	4.29E-04	3.13E-03
1.18E-04	1.66E-03	1.62E-03	5.02E-05	6.15E-04	6.15E-04	4.68E-03	1.18E-04	1.66E-03	1.62E-03	5.02E-05	4.64E-05	6.15E-04	4.11E-03
1.31E-04	1.84E-03	2.03E-03	5.79E-05	8.45E-04	8.45E-04	5.75E-03	1.31E-04	1.84E-03	2.03E-03	5.79E-05	5.21E-05	8.45E-04	4.95E-03
1.40E-04	1.95E-03	2.30E-03	6.30E-05	1.05E-03	1.05E-03	6.56E-03	1.40E-04	1.95E-03	2.30E-03	6.30E-05	5.56E-05	1.05E-03	5.56E-03
1.49E-04	2.03E-03	2.50E-03	6.77E-05	1.22E-03	1.22E-03	7.17E-03	1.49E-04	2.03E-03	2.50E-03	6.77E-05	5.85E-05	1.22E-03	6.02E-03
1.54E-04	2.07E-03	2.69E-03	7.27E-05	1.36E-03	1.36E-03	7.70E-03	1.54E-04	2.07E-03	2.69E-03	7.27E-05	6.24E-05	1.36E-03	6.41E-03
1.63E-04	2.14E-03	2.89E-03	7.76E-05	1.53E-03	1.53E-03	8.34E-03	1.63E-04	2.14E-03	2.89E-03	7.76E-05	6.80E-05	1.53E-03	6.87E-03
1.70E-04	2.21E-03	3.08E-03	8.26E-05	1.69E-03	1.69E-03	8.94E-03	1.70E-04	2.21E-03	3.08E-03	8.26E-05	7.40E-05	1.69E-03	7.32E-03
1.77E-04	2.29E-03	3.28E-03	8.83E-05	1.87E-03	1.87E-03	9.57E-03	1.77E-04	2.29E-03	3.28E-03	8.83E-05	7.88E-05	1.87E-03	7.78E-03
1.87E-04	2.42E-03	3.46E-03	9.30E-05	2.16E-03	2.16E-03	1.05E-02	1.87E-04	2.42E-03	3.46E-03	9.30E-05	8.36E-05	2.16E-03	8.41E-03
1.95E-04	2.59E-03	3.64E-03	9.84E-05	2.42E-03	2.42E-03	1.14E-02	1.95E-04	2.59E-03	3.64E-03	9.84E-05	8.88E-05	2.42E-03	9.03E-03
2.06E-04	2.79E-03	3.68E-03	9.89E-05	2.84E-03	2.84E-03	1.25E-02	2.06E-04	2.79E-03	3.68E-03	9.89E-05	8.73E-05	2.84E-03	9.70E-03
2.17E-04	3.01E-03	3.84E-03	1.03E-04	3.28E-03	3.28E-03	1.37E-02	2.17E-04	3.01E-03	3.84E-03	1.03E-04	8.79E-05	3.28E-03	1.05E-02
2.29E-04	3.30E-03	3.97E-03	1.06E-04	3.85E-03	3.85E-03	1.53E-02	2.29E-04	3.30E-03	3.97E-03	1.06E-04	8.48E-05	3.85E-03	1.15E-02
2.47E-04	3.71E-03	4.08E-03	1.10E-04	4.65E-03	4.65E-03	1.74E-02	2.47E-04	3.71E-03	4.08E-03	1.10E-04	8.37E-05	4.65E-03	1.29E-02
2.69E-04	4.22E-03	4.13E-03	1.11E-04	5.65E-03	5.65E-03	2.00E-02	2.69E-04	4.22E-03	4.13E-03	1.11E-04	8.21E-05	5.65E-03	1.45E-02
2.94E-04	4.86E-03	4.15E-03	1.12E-04	7.14E-03	7.14E-03	2.37E-02	2.94E-04	4.86E-03	4.15E-03	1.12E-04	8.12E-05	7.14E-03	1.66E-02
3.24E-04	5.71E-03	4.16E-03	1.13E-04	1.10E-02	1.10E-02	3.23E-02	3.24E-04	5.71E-03	4.16E-03	1.13E-04	8.25E-05	1.10E-02	2.14E-02
3.65E-04	7.09E-03	4.25E-03	1.17E-04	5.53E-02	5.53E-02	1.22E-01	3.65E-04	7.09E-03	4.25E-03	1.17E-04	8.71E-05	5.53E-02	6.72E-02

4.14E-04	8.96E-03	4.35E-03	1.17E-04	7.88E-02	7.88E-02	1.71E-01	4.14E-04	8.96E-03	4.35E-03	1.17E-04	9.39E-05	7.88E-02	9.27E-02
4.79E-04	1.15E-02	4.47E-03	1.19E-04	8.60E-02	8.60E-02	1.88E-01	4.79E-04	1.15E-02	4.47E-03	1.19E-04	1.00E-04	8.60E-02	1.03E-01
5.65E-04	1.47E-02	4.61E-03	1.21E-04	3.86E-02	3.86E-02	9.72E-02	5.65E-04	1.47E-02	4.61E-03	1.21E-04	9.65E-05	3.86E-02	5.87E-02
6.83E-04	1.94E-02	4.68E-03	1.24E-04	2.01E-02	2.01E-02	6.52E-02	6.83E-04	1.94E-02	4.68E-03	1.24E-04	9.72E-05	2.01E-02	4.52E-02
8.77E-04	2.59E-02	4.45E-03	1.24E-04	1.43E-02	1.43E-02	5.99E-02	8.77E-04	2.59E-02	4.45E-03	1.24E-04	9.97E-05	1.43E-02	4.58E-02
1.33E-03	3.83E-02	4.25E-03	1.17E-04	1.12E-02	1.12E-02	6.64E-02	1.33E-03	3.83E-02	4.25E-03	1.17E-04	9.48E-05	1.12E-02	5.53E-02
4.00E-03	8.49E-02	4.29E-03	1.12E-04	9.23E-03	9.23E-03	1.12E-01	4.00E-03	8.49E-02	4.29E-03	1.12E-04	8.84E-05	9.23E-03	1.03E-01
7.04E-03	1.70E-01	4.46E-03	1.13E-04	7.90E-03	7.90E-03	1.98E-01	7.04E-03	1.70E-01	4.46E-03	1.13E-04	8.76E-05	7.90E-03	1.90E-01
2.81E-03	7.18E-02	4.61E-03	1.17E-04	6.92E-03	6.92E-03	9.32E-02	2.81E-03	7.18E-02	4.61E-03	1.17E-04	9.10E-05	6.92E-03	8.63E-02
1.88E-03	4.23E-02	4.57E-03	1.18E-04	6.13E-03	6.13E-03	6.12E-02	1.88E-03	4.23E-02	4.57E-03	1.18E-04	9.49E-05	6.13E-03	5.51E-02
1.35E-03	2.86E-02	4.52E-03	1.19E-04	5.43E-03	5.43E-03	4.55E-02	1.35E-03	2.86E-02	4.52E-03	1.19E-04	1.00E-04	5.43E-03	4.01E-02
1.16E-03	2.22E-02	4.38E-03	1.17E-04	4.96E-03	4.96E-03	3.78E-02	1.16E-03	2.22E-02	4.38E-03	1.17E-04	1.01E-04	4.96E-03	3.29E-02
9.67E-04	1.75E-02	4.25E-03	1.15E-04	4.46E-03	4.46E-03	3.18E-02	9.67E-04	1.75E-02	4.25E-03	1.15E-04	9.98E-05	4.46E-03	2.74E-02
8.89E-04	1.48E-02	4.09E-03	1.11E-04	4.13E-03	4.13E-03	2.82E-02	8.89E-04	1.48E-02	4.09E-03	1.11E-04	9.64E-05	4.13E-03	2.41E-02
7.85E-04	1.24E-02	3.96E-03	1.07E-04	3.76E-03	3.76E-03	2.48E-02	7.85E-04	1.24E-02	3.96E-03	1.07E-04	9.38E-05	3.76E-03	2.11E-02
6.65E-04	9.94E-03	3.74E-03	1.03E-04	3.27E-03	3.27E-03	2.10E-02	6.65E-04	9.94E-03	3.74E-03	1.03E-04	9.08E-05	3.27E-03	1.78E-02
5.80E-04	8.00E-03	3.48E-03	9.85E-05	2.82E-03	2.82E-03	1.78E-02	5.80E-04	8.00E-03	3.48E-03	9.85E-05	8.71E-05	2.82E-03	1.51E-02
5.26E-04	6.75E-03	3.23E-03	9.29E-05	2.48E-03	2.48E-03	1.56E-02	5.26E-04	6.75E-03	3.23E-03	9.29E-05	8.34E-05	2.48E-03	1.32E-02
4.70E-04	5.61E-03	2.90E-03	8.53E-05	2.13E-03	2.13E-03	1.33E-02	4.70E-04	5.61E-03	2.90E-03	8.53E-05	7.76E-05	2.13E-03	1.13E-02
4.97E-04	6.13E-03	3.17E-03	8.94E-05	2.35E-03	2.35E-03	1.46E-02	4.97E-04	6.13E-03	3.17E-03	8.94E-05	8.07E-05	2.35E-03	1.23E-02
5.29E-04	6.32E-03	3.23E-03	8.77E-05	2.47E-03	2.47E-03	1.51E-02	5.29E-04	6.32E-03	3.23E-03	8.77E-05	8.02E-05	2.47E-03	1.27E-02
8.51E-05	1.22E-03	7.46E-04	2.14E-05	3.26E-04	3.26E-04	2.72E-03	8.51E-05	1.22E-03	7.46E-04	2.14E-05	1.96E-05	3.26E-04	2.42E-03
8.67E-05	1.26E-03	7.86E-04	2.26E-05	3.46E-04	3.46E-04	2.85E-03	8.67E-05	1.26E-03	7.86E-04	2.26E-05	2.06E-05	3.46E-04	2.52E-03
8.87E-05	1.29E-03	8.26E-04	2.39E-05	3.67E-04	3.67E-04	2.97E-03	8.87E-05	1.29E-03	8.26E-04	2.39E-05	2.19E-05	3.67E-04	2.62E-03
9.07E-05	1.33E-03	8.72E-04	2.53E-05	3.92E-04	3.92E-04	3.11E-03	9.07E-05	1.33E-03	8.72E-04	2.53E-05	2.35E-05	3.92E-04	2.74E-03
9.27E-05	1.37E-03	9.14E-04	2.66E-05	4.11E-04	4.11E-04	3.22E-03	9.27E-05	1.37E-03	9.14E-04	2.66E-05	2.53E-05	4.11E-04	2.84E-03
9.43E-05	1.40E-03	9.57E-04	2.78E-05	4.28E-04	4.28E-04	3.34E-03	9.43E-05	1.40E-03	9.57E-04	2.78E-05	2.71E-05	4.28E-04	2.94E-03
9.59E-05	1.43E-03	9.97E-04	2.91E-05	4.42E-04	4.42E-04	3.44E-03	9.59E-05	1.43E-03	9.97E-04	2.91E-05	2.88E-05	4.42E-04	3.03E-03
9.75E-05	1.46E-03	1.04E-03	3.04E-05	4.63E-04	4.63E-04	3.56E-03	9.75E-05	1.46E-03	1.04E-03	3.04E-05	3.02E-05	4.63E-04	3.13E-03
9.71E-05	1.46E-03	1.05E-03	3.13E-05	4.54E-04	4.54E-04	3.54E-03	9.71E-05	1.46E-03	1.05E-03	3.13E-05	3.10E-05	4.54E-04	3.12E-03
9.55E-05	1.42E-03	1.01E-03	3.14E-05	4.19E-04	4.19E-04	3.39E-03	9.55E-05	1.42E-03	1.01E-03	3.14E-05	3.08E-05	4.19E-04	3.00E-03
9.15E-05	1.32E-03	9.01E-04	3.01E-05	3.67E-04	3.67E-04	3.07E-03	9.15E-05	1.32E-03	9.01E-04	3.01E-05	2.90E-05	3.67E-04	2.73E-03
8.99E-05	1.27E-03	8.59E-04	2.99E-05	3.47E-04	3.47E-04	2.94E-03	8.99E-05	1.27E-03	8.59E-04	2.99E-05	2.84E-05	3.47E-04	2.62E-03
9.11E-05	1.27E-03	8.91E-04	3.11E-05	3.55E-04	3.55E-04	3.00E-03	9.11E-05	1.27E-03	8.91E-04	3.11E-05	2.96E-05	3.55E-04	2.67E-03
8.71E-05	1.15E-03	7.55E-04	2.80E-05	3.07E-04	3.07E-04	2.63E-03	8.71E-05	1.15E-03	7.55E-04	2.80E-05	2.64E-05	3.07E-04	2.35E-03
7.59E-05	7.72E-04	4.30E-04	1.70E-05	2.11E-04	2.11E-04	1.72E-03	7.59E-05	7.72E-04	4.30E-04	1.70E-05	1.59E-05	2.11E-04	1.52E-03
9.67E-05	1.31E-03	1.03E-03	3.61E-05	4.00E-04	4.00E-04	3.28E-03	9.67E-05	1.31E-03	1.03E-03	3.61E-05	3.39E-05	4.00E-04	2.91E-03
1.13E-04	1.59E-03	1.55E-03	4.69E-05	6.06E-04	6.06E-04	4.51E-03	1.13E-04	1.59E-03	1.55E-03	4.69E-05	4.23E-05	6.06E-04	3.94E-03
1.24E-04	1.75E-03	1.89E-03	5.31E-05	8.24E-04	8.24E-04	5.46E-03	1.24E-04	1.75E-03	1.89E-03	5.31E-05	4.59E-05	8.24E-04	4.69E-03
1.33E-04	1.85E-03	2.09E-03	5.72E-05	1.02E-03	1.02E-03	6.17E-03	1.33E-04	1.85E-03	2.09E-03	5.72E-05	4.88E-05	1.02E-03	5.20E-03
1.39E-04	1.91E-03	2.23E-03	6.12E-05	1.15E-03	1.15E-03	6.65E-03	1.39E-04	1.91E-03	2.23E-03	6.12E-05	5.20E-05	1.15E-03	5.55E-03
1.45E-04	1.97E-03	2.39E-03	6.50E-05	1.30E-03	1.30E-03	7.16E-03	1.45E-04	1.97E-03	2.39E-03	6.50E-05	5.63E-05	1.30E-03	5.92E-03
1.52E-04	2.03E-03	2.53E-03	6.87E-05	1.42E-03	1.42E-03	7.62E-03	1.52E-04	2.03E-03	2.53E-03	6.87E-05	6.12E-05	1.42E-03	6.26E-03
1.58E-04	2.11E-03	2.67E-03	7.25E-05	1.59E-03	1.59E-03	8.20E-03	1.58E-04	2.11E-03	2.67E-03	7.25E-05	6.50E-05	1.59E-03	6.67E-03
1.64E-04	2.20E-03	2.82E-03	7.70E-05	1.74E-03	1.74E-03	8.74E-03	1.64E-04	2.20E-03	2.82E-03	7.70E-05	6.85E-05	1.74E-03	7.07E-03
1.71E-04	2.32E-03	2.94E-03	8.11E-05	1.91E-03	1.91E-03	9.33E-03	1.71E-04	2.32E-03	2.94E-03	8.11E-05	7.30E-05	1.91E-03	7.50E-03
1.80E-04	2.49E-03	3.06E-03	8.48E-05	2.11E-03	2.11E-03	1.00E-02	1.80E-04	2.49E-03	3.06E-03	8.48E-05	7.56E-05	2.11E-03	8.00E-03
1.89E-04	2.69E-03	3.14E-03	8.66E-05	2.41E-03	2.41E-03	1.09E-02	1.89E-04	2.69E-03	3.14E-03	8.66E-05	7.56E-05	2.41E-03	8.60E-03
1.97E-04	2.89E-03	3.17E-03	8.64E-05	2.75E-03	2.75E-03	1.18E-02	1.97E-04	2.89E-03	3.17E-03	8.64E-05	7.29E-05	2.75E-03	9.16E-03
2.07E-04	3.17E-03	3.27E-03	8.86E-05	3.14E-03	3.14E-03	1.30E-02	2.07E-04	3.17E-03	3.27E-03	8.86E-05	7.06E-05	3.14E-03	9.94E-03
2.21E-04	3.50E-03	3.36E-03	9.15E-05	3.63E-03	3.63E-03	1.44E-02	2.21E-04	3.50E-03	3.36E-03	9.15E-05	7.03E-05	3.63E-03	1.09E-02
2.36E-04	3.85E-03	3.31E-03	9.12E-05	4.19E-03	4.19E-03	1.59E-02	2.36E-04	3.85E-03	3.31E-03	9.12E-05	6.79E-05	4.19E-03	1.17E-02
2.55E-04	4.33E-03	3.28E-03	9.14E-05	5.04E-03	5.04E-03	1.80E-02	2.55E-04	4.33E-03	3.28E-03	9.14E-05	6.73E-05	5.04E-03	1.31E-02
2.74E-04	4.99E-03	3.28E-03	9.10E-05	6.49E-03	6.49E-03	2.16E-02	2.74E-04	4.99E-03	3.28E-03	9.10E-05	6.80E-05	6.49E-03	1.52E-02

2.98E-04	5.83E-03	3.28E-03	9.06E-05	8.23E-03	8.23E-03	2.60E-02	2.98E-04	5.83E-03	3.28E-03	9.06E-05	6.90E-05	8.23E-03	1.78E-02
3.30E-04	7.11E-03	3.42E-03	9.37E-05	1.03E-02	1.03E-02	3.16E-02	3.30E-04	7.11E-03	3.42E-03	9.37E-05	7.15E-05	1.03E-02	2.13E-02
3.62E-04	8.25E-03	3.44E-03	9.19E-05	1.10E-02	1.10E-02	3.40E-02	3.62E-04	8.25E-03	3.44E-03	9.19E-05	7.26E-05	1.10E-02	2.32E-02
4.07E-04	9.94E-03	3.57E-03	9.53E-05	1.09E-02	1.09E-02	3.58E-02	4.07E-04	9.94E-03	3.57E-03	9.53E-05	7.58E-05	1.09E-02	2.50E-02
4.70E-04	1.13E-02	3.58E-03	9.41E-05	9.70E-03	9.70E-03	3.49E-02	4.70E-04	1.13E-02	3.58E-03	9.41E-05	7.53E-05	9.70E-03	2.52E-02
5.66E-04	1.37E-02	3.63E-03	9.58E-05	8.54E-03	8.54E-03	3.51E-02	5.66E-04	1.37E-02	3.63E-03	9.58E-05	7.67E-05	8.54E-03	2.66E-02
7.27E-04	1.68E-02	3.49E-03	9.65E-05	7.48E-03	7.48E-03	3.61E-02	7.27E-04	1.68E-02	3.49E-03	9.65E-05	8.01E-05	7.48E-03	2.87E-02
1.05E-03	2.02E-02	3.32E-03	9.25E-05	6.65E-03	6.65E-03	3.79E-02	1.05E-03	2.02E-02	3.32E-03	9.25E-05	7.76E-05	6.65E-03	3.13E-02
2.28E-03	2.19E-02	3.30E-03	8.85E-05	5.98E-03	5.98E-03	3.95E-02	2.28E-03	2.19E-02	3.30E-03	8.85E-05	7.30E-05	5.98E-03	3.36E-02
1.24E-02	2.12E-02	3.34E-03	8.60E-05	5.30E-03	5.30E-03	4.76E-02	1.24E-02	2.12E-02	3.34E-03	8.60E-05	7.01E-05	5.30E-03	4.24E-02
3.63E-03	2.06E-02	3.47E-03	8.77E-05	4.85E-03	4.85E-03	3.75E-02	3.63E-03	2.06E-02	3.47E-03	8.77E-05	7.10E-05	4.85E-03	3.27E-02
2.28E-03	1.83E-02	3.59E-03	9.10E-05	4.51E-03	4.51E-03	3.33E-02	2.28E-03	1.83E-02	3.59E-03	9.10E-05	7.43E-05	4.51E-03	2.88E-02
1.78E-03	1.55E-02	3.57E-03	9.18E-05	4.15E-03	4.15E-03	2.93E-02	1.78E-03	1.55E-02	3.57E-03	9.18E-05	7.76E-05	4.15E-03	2.52E-02
1.50E-03	1.34E-02	3.51E-03	9.20E-05	3.85E-03	3.85E-03	2.62E-02	1.50E-03	1.34E-02	3.51E-03	9.20E-05	8.05E-05	3.85E-03	2.24E-02
1.28E-03	1.17E-02	3.45E-03	9.17E-05	3.60E-03	3.60E-03	2.38E-02	1.28E-03	1.17E-02	3.45E-03	9.17E-05	8.18E-05	3.60E-03	2.02E-02
1.12E-03	1.04E-02	3.37E-03	9.04E-05	3.36E-03	3.36E-03	2.17E-02	1.12E-03	1.04E-02	3.37E-03	9.04E-05	8.10E-05	3.36E-03	1.85E-02
1.02E-03	9.32E-03	3.27E-03	8.79E-05	3.15E-03	3.15E-03	2.00E-02	1.02E-03	9.32E-03	3.27E-03	8.79E-05	7.88E-05	3.15E-03	1.69E-02
8.68E-04	8.45E-03	3.20E-03	8.64E-05	2.93E-03	2.93E-03	1.85E-02	8.68E-04	8.45E-03	3.20E-03	8.64E-05	7.75E-05	2.93E-03	1.56E-02
7.07E-04	7.16E-03	3.05E-03	8.43E-05	2.59E-03	2.59E-03	1.62E-02	7.07E-04	7.16E-03	3.05E-03	8.43E-05	7.55E-05	2.59E-03	1.37E-02
6.63E-04	6.61E-03	2.96E-03	8.18E-05	2.45E-03	2.45E-03	1.52E-02	6.63E-04	6.61E-03	2.96E-03	8.18E-05	7.37E-05	2.45E-03	1.28E-02
6.08E-04	5.98E-03	2.86E-03	7.95E-05	2.28E-03	2.28E-03	1.41E-02	6.08E-04	5.98E-03	2.86E-03	7.95E-05	7.19E-05	2.28E-03	1.19E-02
6.14E-04	5.87E-03	2.84E-03	7.72E-05	2.27E-03	2.27E-03	1.39E-02	6.14E-04	5.87E-03	2.84E-03	7.72E-05	7.08E-05	2.27E-03	1.17E-02
8.35E-05	1.19E-03	7.42E-04	2.13E-05	3.41E-04	3.41E-04	2.72E-03	8.35E-05	1.19E-03	7.42E-04	2.13E-05	1.97E-05	3.41E-04	2.40E-03
8.51E-05	1.22E-03	7.76E-04	2.24E-05	3.58E-04	3.58E-04	2.82E-03	8.51E-05	1.22E-03	7.76E-04	2.24E-05	2.10E-05	3.58E-04	2.48E-03
8.67E-05	1.25E-03	8.12E-04	2.35E-05	3.75E-04	3.75E-04	2.93E-03	8.67E-05	1.25E-03	8.12E-04	2.35E-05	2.24E-05	3.75E-04	2.57E-03
8.87E-05	1.29E-03	8.53E-04	2.47E-05	3.97E-04	3.97E-04	3.05E-03	8.87E-05	1.29E-03	8.53E-04	2.47E-05	2.39E-05	3.97E-04	2.68E-03
9.03E-05	1.32E-03	8.93E-04	2.57E-05	4.17E-04	4.17E-04	3.16E-03	9.03E-05	1.32E-03	8.93E-04	2.57E-05	2.53E-05	4.17E-04	2.77E-03
9.19E-05	1.35E-03	9.31E-04	2.68E-05	4.32E-04	4.32E-04	3.27E-03	9.19E-05	1.35E-03	9.31E-04	2.68E-05	2.65E-05	4.32E-04	2.86E-03
9.35E-05	1.39E-03	9.81E-04	2.81E-05	4.60E-04	4.60E-04	3.41E-03	9.35E-05	1.39E-03	9.81E-04	2.81E-05	2.74E-05	4.60E-04	2.98E-03
9.51E-05	1.41E-03	1.02E-03	2.94E-05	4.72E-04	4.72E-04	3.50E-03	9.51E-05	1.41E-03	1.02E-03	2.94E-05	2.82E-05	4.72E-04	3.05E-03
9.71E-05	1.45E-03	1.07E-03	3.08E-05	5.00E-04	5.00E-04	3.65E-03	9.71E-05	1.45E-03	1.07E-03	3.08E-05	2.91E-05	5.00E-04	3.18E-03
9.83E-05	1.46E-03	1.11E-03	3.21E-05	5.02E-04	5.02E-04	3.70E-03	9.83E-05	1.46E-03	1.11E-03	3.21E-05	3.01E-05	5.02E-04	3.23E-03
9.79E-05	1.45E-03	1.12E-03	3.30E-05	4.85E-04	4.85E-04	3.66E-03	9.79E-05	1.45E-03	1.12E-03	3.30E-05	3.10E-05	4.85E-04	3.21E-03
9.75E-05	1.43E-03	1.13E-03	3.40E-05	4.74E-04	4.74E-04	3.64E-03	9.75E-05	1.43E-03	1.13E-03	3.40E-05	3.20E-05	4.74E-04	3.20E-03
9.79E-05	1.43E-03	1.15E-03	3.49E-05	4.72E-04	4.72E-04	3.65E-03	9.79E-05	1.43E-03	1.15E-03	3.49E-05	3.29E-05	4.72E-04	3.21E-03
9.15E-05	1.27E-03	9.55E-04	3.19E-05	3.81E-04	3.81E-04	3.11E-03	9.15E-05	1.27E-03	9.55E-04	3.19E-05	3.04E-05	3.81E-04	2.76E-03
7.71E-05	8.86E-04	5.35E-04	2.08E-05	2.41E-04	2.41E-04	2.00E-03	7.71E-05	8.86E-04	5.35E-04	2.08E-05	1.94E-05	2.41E-04	1.78E-03
8.31E-05	1.02E-03	6.94E-04	2.62E-05	2.92E-04	2.92E-04	2.41E-03	8.31E-05	1.02E-03	6.94E-04	2.62E-05	2.37E-05	2.92E-04	2.14E-03
1.05E-04	1.47E-03	1.39E-03	4.25E-05	5.70E-04	5.70E-04	4.15E-03	1.05E-04	1.47E-03	1.39E-03	4.25E-05	3.70E-05	5.70E-04	3.61E-03
1.17E-04	1.65E-03	1.71E-03	4.85E-05	7.91E-04	7.91E-04	5.11E-03	1.17E-04	1.65E-03	1.71E-03	4.85E-05	4.14E-05	7.91E-04	4.36E-03
1.27E-04	1.77E-03	1.88E-03	5.23E-05	9.97E-04	9.97E-04	5.83E-03	1.27E-04	1.77E-03	1.88E-03	5.23E-05	4.44E-05	9.97E-04	4.87E-03
1.32E-04	1.83E-03	2.00E-03	5.52E-05	1.12E-03	1.12E-03	6.26E-03	1.32E-04	1.83E-03	2.00E-03	5.52E-05	4.76E-05	1.12E-03	5.19E-03
1.37E-04	1.88E-03	2.11E-03	5.80E-05	1.24E-03	1.24E-03	6.68E-03	1.37E-04	1.88E-03	2.11E-03	5.80E-05	5.11E-05	1.24E-03	5.49E-03
1.43E-04	1.95E-03	2.22E-03	6.10E-05	1.34E-03	1.34E-03	7.06E-03	1.43E-04	1.95E-03	2.22E-03	6.10E-05	5.47E-05	1.34E-03	5.77E-03
1.48E-04	2.03E-03	2.33E-03	6.43E-05	1.45E-03	1.45E-03	7.47E-03	1.48E-04	2.03E-03	2.33E-03	6.43E-05	5.75E-05	1.45E-03	6.08E-03
1.53E-04	2.12E-03	2.43E-03	6.77E-05	1.57E-03	1.57E-03	7.91E-03	1.53E-04	2.12E-03	2.43E-03	6.77E-05	6.04E-05	1.57E-03	6.40E-03
1.59E-04	2.23E-03	2.53E-03	7.07E-05	1.70E-03	1.70E-03	8.39E-03	1.59E-04	2.23E-03	2.53E-03	7.07E-05	6.33E-05	1.70E-03	6.76E-03
1.65E-04	2.40E-03	2.62E-03	7.31E-05	1.85E-03	1.85E-03	8.97E-03	1.65E-04	2.40E-03	2.62E-03	7.31E-05	6.45E-05	1.85E-03	7.18E-03
1.72E-04	2.59E-03	2.70E-03	7.57E-05	2.03E-03	2.03E-03	9.60E-03	1.72E-04	2.59E-03	2.70E-03	7.57E-05	6.55E-05	2.03E-03	7.63E-03
1.79E-04	2.77E-03	2.72E-03	7.54E-05	2.31E-03	2.31E-03	1.04E-02	1.79E-04	2.77E-03	2.72E-03	7.54E-05	6.28E-05	2.31E-03	8.12E-03
1.86E-04	2.93E-03	2.72E-03	7.50E-05	2.56E-03	2.56E-03	1.10E-02	1.86E-04	2.93E-03	2.72E-03	7.50E-05	5.98E-05	2.56E-03	8.53E-03
1.95E-04	3.18E-03	2.75E-03	7.61E-05	2.85E-03	2.85E-03	1.19E-02	1.95E-04	3.18E-03	2.75E-03	7.61E-05	5.85E-05	2.85E-03	9.11E-03
2.07E-04	3.47E-03	2.72E-03	7.66E-05	3.15E-03	3.15E-03	1.28E-02	2.07E-04	3.47E-03	2.72E-03	7.66E-05	5.71E-05	3.15E-03	9.68E-03
2.21E-04	3.85E-03	2.69E-03	7.65E-05	3.54E-03	3.54E-03	1.39E-02	2.21E-04	3.85E-03	2.69E-03	7.65E-05	5.69E-05	3.54E-03	1.04E-02

2.36E-04	4.32E-03	2.68E-03	7.54E-05	4.01E-03	4.01E-03	1.53E-02	2.36E-04	4.32E-03	2.68E-03	7.54E-05	5.75E-05	4.01E-03	1.14E-02
2.54E-04	4.89E-03	2.68E-03	7.49E-05	4.32E-03	4.32E-03	1.65E-02	2.54E-04	4.89E-03	2.68E-03	7.49E-05	5.83E-05	4.32E-03	1.23E-02
2.74E-04	5.48E-03	2.69E-03	7.44E-05	4.40E-03	4.40E-03	1.73E-02	2.74E-04	5.48E-03	2.69E-03	7.44E-05	5.74E-05	4.40E-03	1.30E-02
2.98E-04	6.25E-03	2.76E-03	7.45E-05	4.58E-03	4.58E-03	1.85E-02	2.98E-04	6.25E-03	2.76E-03	7.45E-05	5.90E-05	4.58E-03	1.40E-02
3.25E-04	6.92E-03	2.79E-03	7.51E-05	4.69E-03	4.69E-03	1.95E-02	3.25E-04	6.92E-03	2.79E-03	7.51E-05	6.07E-05	4.69E-03	1.49E-02
3.62E-04	7.71E-03	2.85E-03	7.63E-05	4.75E-03	4.75E-03	2.05E-02	3.62E-04	7.71E-03	2.85E-03	7.63E-05	6.20E-05	4.75E-03	1.58E-02
4.13E-04	8.34E-03	2.90E-03	7.68E-05	4.65E-03	4.65E-03	2.10E-02	4.13E-04	8.34E-03	2.90E-03	7.68E-05	6.27E-05	4.65E-03	1.65E-02
4.87E-04	9.15E-03	2.94E-03	7.75E-05	4.54E-03	4.54E-03	2.17E-02	4.87E-04	9.15E-03	2.94E-03	7.75E-05	6.35E-05	4.54E-03	1.73E-02
6.07E-04	9.61E-03	2.85E-03	7.83E-05	4.35E-03	4.35E-03	2.19E-02	6.07E-04	9.61E-03	2.85E-03	7.83E-05	6.65E-05	4.35E-03	1.76E-02
8.40E-04	9.47E-03	2.71E-03	7.60E-05	4.15E-03	4.15E-03	2.14E-02	8.40E-04	9.47E-03	2.71E-03	7.60E-05	6.54E-05	4.15E-03	1.73E-02
1.48E-03	9.57E-03	2.65E-03	7.23E-05	3.96E-03	3.96E-03	2.17E-02	1.48E-03	9.57E-03	2.65E-03	7.23E-05	6.14E-05	3.96E-03	1.78E-02
5.13E-03	9.23E-03	2.67E-03	7.03E-05	3.74E-03	3.74E-03	2.46E-02	5.13E-03	9.23E-03	2.67E-03	7.03E-05	5.92E-05	3.74E-03	2.09E-02
2.25E-02	9.53E-03	2.75E-03	7.06E-05	3.53E-03	3.53E-03	4.19E-02	2.25E-02	9.53E-03	2.75E-03	7.06E-05	5.91E-05	3.53E-03	3.84E-02
6.83E-03	9.30E-03	2.82E-03	7.15E-05	3.32E-03	3.32E-03	2.57E-02	6.83E-03	9.30E-03	2.82E-03	7.15E-05	5.97E-05	3.32E-03	2.24E-02
3.97E-03	8.67E-03	2.86E-03	7.27E-05	3.13E-03	3.13E-03	2.18E-02	3.97E-03	8.67E-03	2.86E-03	7.27E-05	6.16E-05	3.13E-03	1.88E-02
2.79E-03	8.10E-03	2.86E-03	7.38E-05	2.96E-03	2.96E-03	1.98E-02	2.79E-03	8.10E-03	2.86E-03	7.38E-05	6.44E-05	2.96E-03	1.69E-02
2.18E-03	7.55E-03	2.82E-03	7.39E-05	2.81E-03	2.81E-03	1.83E-02	2.18E-03	7.55E-03	2.82E-03	7.39E-05	6.64E-05	2.81E-03	1.55E-02
1.82E-03	7.01E-03	2.76E-03	7.30E-05	2.66E-03	2.66E-03	1.70E-02	1.82E-03	7.01E-03	2.76E-03	7.30E-05	6.66E-05	2.66E-03	1.44E-02
1.51E-03	6.67E-03	2.73E-03	7.29E-05	2.55E-03	2.55E-03	1.61E-02	1.51E-03	6.67E-03	2.73E-03	7.29E-05	6.66E-05	2.55E-03	1.36E-02
1.18E-03	6.36E-03	2.71E-03	7.29E-05	2.45E-03	2.45E-03	1.52E-02	1.18E-03	6.36E-03	2.71E-03	7.29E-05	6.67E-05	2.45E-03	1.28E-02
1.03E-03	5.98E-03	2.65E-03	7.13E-05	2.33E-03	2.33E-03	1.44E-02	1.03E-03	5.98E-03	2.65E-03	7.13E-05	6.52E-05	2.33E-03	1.21E-02
9.19E-04	5.63E-03	2.58E-03	6.96E-05	2.22E-03	2.22E-03	1.36E-02	9.19E-04	5.63E-03	2.58E-03	6.96E-05	6.37E-05	2.22E-03	1.15E-02
8.22E-04	5.34E-03	2.53E-03	6.80E-05	2.11E-03	2.11E-03	1.30E-02	8.22E-04	5.34E-03	2.53E-03	6.80E-05	6.25E-05	2.11E-03	1.09E-02
8.11E-05	1.15E-03	7.30E-04	2.11E-05	3.44E-04	3.44E-04	2.67E-03	8.11E-05	1.15E-03	7.30E-04	2.11E-05	2.00E-05	3.44E-04	2.34E-03
8.23E-05	1.17E-03	7.61E-04	2.20E-05	3.60E-04	3.60E-04	2.76E-03	8.23E-05	1.17E-03	7.61E-04	2.20E-05	2.12E-05	3.60E-04	2.42E-03
8.39E-05	1.20E-03	7.94E-04	2.28E-05	3.78E-04	3.78E-04	2.86E-03	8.39E-05	1.20E-03	7.94E-04	2.28E-05	2.24E-05	3.78E-04	2.50E-03
8.59E-05	1.24E-03	8.31E-04	2.38E-05	3.98E-04	3.98E-04	2.97E-03	8.59E-05	1.24E-03	8.31E-04	2.38E-05	2.33E-05	3.98E-04	2.60E-03
8.75E-05	1.27E-03	8.69E-04	2.47E-05	4.19E-04	4.19E-04	3.08E-03	8.75E-05	1.27E-03	8.69E-04	2.47E-05	2.41E-05	4.19E-04	2.69E-03
8.91E-05	1.30E-03	9.06E-04	2.58E-05	4.36E-04	4.36E-04	3.19E-03	8.91E-05	1.30E-03	9.06E-04	2.58E-05	2.48E-05	4.36E-04	2.78E-03
9.07E-05	1.33E-03	9.47E-04	2.69E-05	4.57E-04	4.57E-04	3.31E-03	9.07E-05	1.33E-03	9.47E-04	2.69E-05	2.55E-05	4.57E-04	2.87E-03
9.23E-05	1.35E-03	9.87E-04	2.81E-05	4.74E-04	4.74E-04	3.41E-03	9.23E-05	1.35E-03	9.87E-04	2.81E-05	2.63E-05	4.74E-04	2.96E-03
9.39E-05	1.38E-03	1.03E-03	2.94E-05	4.95E-04	4.95E-04	3.52E-03	9.39E-05	1.38E-03	1.03E-03	2.94E-05	2.73E-05	4.95E-04	3.05E-03
9.63E-05	1.40E-03	1.08E-03	3.07E-05	5.22E-04	5.22E-04	3.65E-03	9.63E-05	1.40E-03	1.08E-03	3.07E-05	2.84E-05	5.22E-04	3.16E-03
9.79E-05	1.42E-03	1.13E-03	3.20E-05	5.40E-04	5.40E-04	3.76E-03	9.79E-05	1.42E-03	1.13E-03	3.20E-05	2.94E-05	5.40E-04	3.25E-03
9.91E-05	1.43E-03	1.16E-03	3.31E-05	5.40E-04	5.40E-04	3.80E-03	9.91E-05	1.43E-03	1.16E-03	3.31E-05	3.04E-05	5.40E-04	3.29E-03
9.91E-05	1.42E-03	1.18E-03	3.40E-05	5.30E-04	5.30E-04	3.79E-03	9.91E-05	1.42E-03	1.18E-03	3.40E-05	3.08E-05	5.30E-04	3.29E-03
8.95E-05	1.23E-03	9.56E-04	3.09E-05	4.00E-04	4.00E-04	3.10E-03	8.95E-05	1.23E-03	9.56E-04	3.09E-05	2.81E-05	4.00E-04	2.73E-03
7.11E-05	7.50E-04	4.36E-04	1.71E-05	1.99E-04	1.99E-04	1.67E-03	7.11E-05	7.50E-04	4.36E-04	1.71E-05	1.53E-05	1.99E-04	1.49E-03
8.39E-05	1.07E-03	7.94E-04	2.84E-05	3.14E-04	3.14E-04	2.60E-03	8.39E-05	1.07E-03	7.94E-04	2.84E-05	2.48E-05	3.14E-04	2.31E-03
8.19E-05	9.90E-04	7.14E-04	2.66E-05	2.88E-04	2.88E-04	2.39E-03	8.19E-05	9.90E-04	7.14E-04	2.66E-05	2.38E-05	2.88E-04	2.12E-03
1.12E-04	1.57E-03	1.55E-03	4.41E-05	7.45E-04	7.45E-04	4.76E-03	1.12E-04	1.57E-03	1.55E-03	4.41E-05	3.84E-05	7.45E-04	4.05E-03
1.21E-04	1.69E-03	1.71E-03	4.75E-05	9.59E-04	9.59E-04	5.49E-03	1.21E-04	1.69E-03	1.71E-03	4.75E-05	4.09E-05	9.59E-04	4.57E-03
1.25E-04	1.74E-03	1.79E-03	4.99E-05	1.06E-03	1.06E-03	5.82E-03	1.25E-04	1.74E-03	1.79E-03	4.99E-05	4.36E-05	1.06E-03	4.81E-03
1.30E-04	1.79E-03	1.88E-03	5.23E-05	1.14E-03	1.14E-03	6.14E-03	1.30E-04	1.79E-03	1.88E-03	5.23E-05	4.65E-05	1.14E-03	5.04E-03
1.35E-04	1.86E-03	1.96E-03	5.47E-05	1.22E-03	1.22E-03	6.44E-03	1.35E-04	1.86E-03	1.96E-03	5.47E-05	4.92E-05	1.22E-03	5.28E-03
1.39E-04	1.93E-03	2.05E-03	5.74E-05	1.31E-03	1.31E-03	6.80E-03	1.39E-04	1.93E-03	2.05E-03	5.74E-05	5.13E-05	1.31E-03	5.54E-03
1.43E-04	2.03E-03	2.14E-03	6.01E-05	1.41E-03	1.41E-03	7.19E-03	1.43E-04	2.03E-03	2.14E-03	6.01E-05	5.35E-05	1.41E-03	5.84E-03
1.48E-04	2.15E-03	2.22E-03	6.21E-05	1.52E-03	1.52E-03	7.61E-03	1.48E-04	2.15E-03	2.22E-03	6.21E-05	5.52E-05	1.52E-03	6.14E-03
1.53E-04	2.28E-03	2.27E-03	6.40E-05	1.63E-03	1.63E-03	8.02E-03	1.53E-04	2.28E-03	2.27E-03	6.40E-05	5.60E-05	1.63E-03	6.45E-03
1.59E-04	2.41E-03	2.30E-03	6.51E-05	1.77E-03	1.77E-03	8.48E-03	1.59E-04	2.41E-03	2.30E-03	6.51E-05	5.54E-05	1.77E-03	6.76E-03
1.66E-04	2.56E-03	2.35E-03	6.61E-05	1.93E-03	1.93E-03	9.00E-03	1.66E-04	2.56E-03	2.35E-03	6.61E-05	5.45E-05	1.93E-03	7.12E-03
1.71E-04	2.72E-03	2.34E-03	6.57E-05	2.09E-03	2.09E-03	9.48E-03	1.71E-04	2.72E-03	2.34E-03	6.57E-05	5.27E-05	2.09E-03	7.44E-03
1.77E-04	2.88E-03	2.31E-03	6.50E-05	2.22E-03	2.22E-03	9.88E-03	1.77E-04	2.88E-03	2.31E-03	6.50E-05	4.99E-05	2.22E-03	7.71E-03
1.86E-04	3.12E-03	2.29E-03	6.54E-05	2.39E-03	2.39E-03	1.04E-02	1.86E-04	3.12E-03	2.29E-03	6.54E-05	4.88E-05	2.39E-03	8.10E-03

1.97E-04	3.41E-03	2.26E-03	6.50E-05	2.59E-03	2.59E-03	1.11E-02	1.97E-04	3.41E-03	2.26E-03	6.50E-05	4.88E-05	2.59E-03	8.57E-03
2.09E-04	3.76E-03	2.25E-03	6.42E-05	2.79E-03	2.79E-03	1.19E-02	2.09E-04	3.76E-03	2.25E-03	6.42E-05	4.96E-05	2.79E-03	9.12E-03
2.22E-04	4.12E-03	2.25E-03	6.35E-05	2.87E-03	2.87E-03	1.24E-02	2.22E-04	4.12E-03	2.25E-03	6.35E-05	5.04E-05	2.87E-03	9.57E-03
2.36E-04	4.49E-03	2.25E-03	6.30E-05	2.83E-03	2.83E-03	1.27E-02	2.36E-04	4.49E-03	2.25E-03	6.30E-05	4.93E-05	2.83E-03	9.92E-03
2.54E-04	4.87E-03	2.28E-03	6.25E-05	2.84E-03	2.84E-03	1.31E-02	2.54E-04	4.87E-03	2.28E-03	6.25E-05	4.94E-05	2.84E-03	1.04E-02
2.74E-04	5.14E-03	2.30E-03	6.23E-05	2.91E-03	2.91E-03	1.36E-02	2.74E-04	5.14E-03	2.30E-03	6.23E-05	5.09E-05	2.91E-03	1.07E-02
2.98E-04	5.50E-03	2.34E-03	6.32E-05	2.99E-03	2.99E-03	1.42E-02	2.98E-04	5.50E-03	2.34E-03	6.32E-05	5.19E-05	2.99E-03	1.12E-02
3.30E-04	5.75E-03	2.35E-03	6.34E-05	2.98E-03	2.98E-03	1.45E-02	3.30E-04	5.75E-03	2.35E-03	6.34E-05	5.25E-05	2.98E-03	1.15E-02
3.72E-04	5.96E-03	2.40E-03	6.38E-05	2.94E-03	2.94E-03	1.47E-02	3.72E-04	5.96E-03	2.40E-03	6.38E-05	5.30E-05	2.94E-03	1.18E-02
4.30E-04	6.02E-03	2.45E-03	6.46E-05	2.93E-03	2.93E-03	1.48E-02	4.30E-04	6.02E-03	2.45E-03	6.46E-05	5.39E-05	2.93E-03	1.19E-02
5.14E-04	6.02E-03	2.40E-03	6.57E-05	2.92E-03	2.92E-03	1.48E-02	5.14E-04	6.02E-03	2.40E-03	6.57E-05	5.68E-05	2.92E-03	1.20E-02
6.38E-04	5.96E-03	2.27E-03	6.38E-05	2.84E-03	2.84E-03	1.46E-02	6.38E-04	5.96E-03	2.27E-03	6.38E-05	5.60E-05	2.84E-03	1.18E-02
8.26E-04	5.99E-03	2.20E-03	6.09E-05	2.78E-03	2.78E-03	1.46E-02	8.26E-04	5.99E-03	2.20E-03	6.09E-05	5.27E-05	2.78E-03	1.19E-02
1.12E-03	5.80E-03	2.19E-03	5.89E-05	2.71E-03	2.71E-03	1.46E-02	1.12E-03	5.80E-03	2.19E-03	5.89E-05	5.05E-05	2.71E-03	1.19E-02
1.65E-03	5.70E-03	2.23E-03	5.83E-05	2.62E-03	2.62E-03	1.49E-02	1.65E-03	5.70E-03	2.23E-03	5.83E-05	5.01E-05	2.62E-03	1.23E-02
2.98E-03	5.91E-03	2.29E-03	5.87E-05	2.52E-03	2.52E-03	1.63E-02	2.98E-03	5.91E-03	2.29E-03	5.87E-05	5.03E-05	2.52E-03	1.38E-02
1.23E-02	5.84E-03	2.36E-03	5.99E-05	2.43E-03	2.43E-03	2.55E-02	1.23E-02	5.84E-03	2.36E-03	5.99E-05	5.12E-05	2.43E-03	2.31E-02
1.41E-02	5.57E-03	2.39E-03	6.09E-05	2.33E-03	2.33E-03	2.68E-02	1.41E-02	5.57E-03	2.39E-03	6.09E-05	5.29E-05	2.33E-03	2.45E-02
5.82E-03	5.29E-03	2.38E-03	6.15E-05	2.23E-03	2.23E-03	1.80E-02	5.82E-03	5.29E-03	2.38E-03	6.15E-05	5.50E-05	2.23E-03	1.58E-02
3.66E-03	5.08E-03	2.35E-03	6.18E-05	2.15E-03	2.15E-03	1.55E-02	3.66E-03	5.08E-03	2.35E-03	6.18E-05	5.66E-05	2.15E-03	1.34E-02
1.90E-03	5.07E-03	2.43E-03	6.51E-05	2.10E-03	2.10E-03	1.37E-02	1.90E-03	5.07E-03	2.43E-03	6.51E-05	6.05E-05	2.10E-03	1.16E-02
1.99E-03	4.77E-03	2.31E-03	6.19E-05	2.02E-03	2.02E-03	1.32E-02	1.99E-03	4.77E-03	2.31E-03	6.19E-05	5.75E-05	2.02E-03	1.12E-02
1.78E-03	4.54E-03	2.24E-03	6.00E-05	1.94E-03	1.94E-03	1.25E-02	1.78E-03	4.54E-03	2.24E-03	6.00E-05	5.56E-05	1.94E-03	1.06E-02
1.55E-03	4.35E-03	2.19E-03	5.85E-05	1.86E-03	1.86E-03	1.19E-02	1.55E-03	4.35E-03	2.19E-03	5.85E-05	5.42E-05	1.86E-03	1.01E-02
7.91E-05	1.10E-03	7.13E-04	2.05E-05	3.43E-04	3.43E-04	2.60E-03	7.91E-05	1.10E-03	7.13E-04	2.05E-05	1.99E-05	3.43E-04	2.27E-03
8.03E-05	1.12E-03	7.40E-04	2.12E-05	3.58E-04	3.58E-04	2.68E-03	8.03E-05	1.12E-03	7.40E-04	2.12E-05	2.07E-05	3.58E-04	2.34E-03
8.19E-05	1.15E-03	7.72E-04	2.20E-05	3.76E-04	3.76E-04	2.78E-03	8.19E-05	1.15E-03	7.72E-04	2.20E-05	2.14E-05	3.76E-04	2.42E-03
8.35E-05	1.18E-03	8.04E-04	2.28E-05	3.94E-04	3.94E-04	2.88E-03	8.35E-05	1.18E-03	8.04E-04	2.28E-05	2.20E-05	3.94E-04	2.50E-03
8.51E-05	1.21E-03	8.37E-04	2.37E-05	4.12E-04	4.12E-04	2.98E-03	8.51E-05	1.21E-03	8.37E-04	2.37E-05	2.25E-05	4.12E-04	2.59E-03
8.63E-05	1.24E-03	8.71E-04	2.46E-05	4.29E-04	4.29E-04	3.07E-03	8.63E-05	1.24E-03	8.71E-04	2.46E-05	2.31E-05	4.29E-04	2.67E-03
8.75E-05	1.26E-03	9.03E-04	2.56E-05	4.43E-04	4.43E-04	3.17E-03	8.75E-05	1.26E-03	9.03E-04	2.56E-05	2.39E-05	4.43E-04	2.75E-03
8.91E-05	1.28E-03	9.34E-04	2.67E-05	4.54E-04	4.54E-04	3.24E-03	8.91E-05	1.28E-03	9.34E-04	2.67E-05	2.47E-05	4.54E-04	2.81E-03
9.15E-05	1.30E-03	9.77E-04	2.78E-05	4.83E-04	4.83E-04	3.37E-03	9.15E-05	1.30E-03	9.77E-04	2.78E-05	2.55E-05	4.83E-04	2.91E-03
9.35E-05	1.32E-03	1.02E-03	2.89E-05	5.10E-04	5.10E-04	3.49E-03	9.35E-05	1.32E-03	1.02E-03	2.89E-05	2.62E-05	5.10E-04	3.00E-03
9.55E-05	1.35E-03	1.07E-03	3.00E-05	5.33E-04	5.33E-04	3.60E-03	9.55E-05	1.35E-03	1.07E-03	3.00E-05	2.68E-05	5.33E-04	3.10E-03
9.71E-05	1.37E-03	1.11E-03	3.12E-05	5.52E-04	5.52E-04	3.71E-03	9.71E-05	1.37E-03	1.11E-03	3.12E-05	2.72E-05	5.52E-04	3.19E-03
9.79E-05	1.38E-03	1.14E-03	3.25E-05	5.50E-04	5.50E-04	3.75E-03	9.79E-05	1.38E-03	1.14E-03	3.25E-05	2.74E-05	5.50E-04	3.22E-03
9.11E-05	1.26E-03	1.02E-03	3.13E-05	4.40E-04	4.40E-04	3.28E-03	9.11E-05	1.26E-03	1.02E-03	3.13E-05	2.69E-05	4.40E-04	2.87E-03
8.35E-05	1.09E-03	8.28E-04	2.81E-05	3.35E-04	3.35E-04	2.70E-03	8.35E-05	1.09E-03	8.28E-04	2.81E-05	2.46E-05	3.35E-04	2.39E-03
8.51E-05	1.12E-03	8.90E-04	2.96E-05	3.53E-04	3.53E-04	2.83E-03	8.51E-05	1.12E-03	8.90E-04	2.96E-05	2.65E-05	3.53E-04	2.50E-03
9.19E-05	1.24E-03	1.08E-03	3.40E-05	4.43E-04	4.43E-04	3.33E-03	9.19E-05	1.24E-03	1.08E-03	3.40E-05	3.09E-05	4.43E-04	2.92E-03
1.08E-04	1.53E-03	1.43E-03	4.09E-05	7.55E-04	7.55E-04	4.63E-03	1.08E-04	1.53E-03	1.43E-03	4.09E-05	3.56E-05	7.55E-04	3.91E-03
1.15E-04	1.62E-03	1.54E-03	4.34E-05	9.08E-04	9.08E-04	5.14E-03	1.15E-04	1.62E-03	1.54E-03	4.34E-05	3.77E-05	9.08E-04	4.27E-03
1.19E-04	1.66E-03	1.61E-03	4.54E-05	9.84E-04	9.84E-04	5.40E-03	1.19E-04	1.66E-03	1.61E-03	4.54E-05	3.99E-05	9.84E-04	4.46E-03
1.23E-04	1.72E-03	1.68E-03	4.73E-05	1.05E-03	1.05E-03	5.68E-03	1.23E-04	1.72E-03	1.68E-03	4.73E-05	4.25E-05	1.05E-03	4.67E-03
1.28E-04	1.79E-03	1.75E-03	4.91E-05	1.12E-03	1.12E-03	5.97E-03	1.28E-04	1.79E-03	1.75E-03	4.91E-05	4.44E-05	1.12E-03	4.89E-03
1.32E-04	1.87E-03	1.83E-03	5.13E-05	1.20E-03	1.20E-03	6.27E-03	1.32E-04	1.87E-03	1.83E-03	5.13E-05	4.57E-05	1.20E-03	5.12E-03
1.35E-04	1.94E-03	1.90E-03	5.34E-05	1.27E-03	1.27E-03	6.56E-03	1.35E-04	1.94E-03	1.90E-03	5.34E-05	4.72E-05	1.27E-03	5.34E-03
1.39E-04	2.03E-03	1.95E-03	5.52E-05	1.33E-03	1.33E-03	6.83E-03	1.39E-04	2.03E-03	1.95E-03	5.52E-05	4.87E-05	1.33E-03	5.55E-03
1.43E-04	2.12E-03	1.98E-03	5.62E-05	1.42E-03	1.42E-03	7.14E-03	1.43E-04	2.12E-03	1.98E-03	5.62E-05	4.84E-05	1.42E-03	5.77E-03
1.49E-04	2.24E-03	2.01E-03	5.75E-05	1.51E-03	1.51E-03	7.47E-03	1.49E-04	2.24E-03	2.01E-03	5.75E-05	4.82E-05	1.51E-03	6.01E-03
1.55E-04	2.36E-03	2.00E-03	5.71E-05	1.59E-03	1.59E-03	7.76E-03	1.55E-04	2.36E-03	2.00E-03	5.71E-05	4.70E-05	1.59E-03	6.21E-03
1.59E-04	2.47E-03	1.99E-03	5.67E-05	1.69E-03	1.69E-03	8.07E-03	1.59E-04	2.47E-03	1.99E-03	5.67E-05	4.57E-05	1.69E-03	6.42E-03
1.65E-04	2.62E-03	1.99E-03	5.68E-05	1.80E-03	1.80E-03	8.42E-03	1.65E-04	2.62E-03	1.99E-03	5.68E-05	4.35E-05	1.80E-03	6.67E-03

1.71E-04	2.78E-03	1.96E-03	5.65E-05	1.91E-03	1.91E-03	8.79E-03	1.71E-04	2.78E-03	1.96E-03	5.65E-05	4.22E-05	1.91E-03	6.92E-03
1.80E-04	2.99E-03	1.93E-03	5.60E-05	1.99E-03	1.99E-03	9.15E-03	1.80E-04	2.99E-03	1.93E-03	5.60E-05	4.21E-05	1.99E-03	7.20E-03
1.91E-04	3.23E-03	1.91E-03	5.53E-05	2.08E-03	2.08E-03	9.55E-03	1.91E-04	3.23E-03	1.91E-03	5.53E-05	4.31E-05	2.08E-03	7.51E-03
2.01E-04	3.47E-03	1.92E-03	5.49E-05	2.11E-03	2.11E-03	9.85E-03	2.01E-04	3.47E-03	1.92E-03	5.49E-05	4.42E-05	2.11E-03	7.79E-03
2.13E-04	3.69E-03	1.92E-03	5.44E-05	2.05E-03	2.05E-03	9.97E-03	2.13E-04	3.69E-03	1.92E-03	5.44E-05	4.34E-05	2.05E-03	7.97E-03
2.26E-04	3.92E-03	1.95E-03	5.41E-05	2.05E-03	2.05E-03	1.02E-02	2.26E-04	3.92E-03	1.95E-03	5.41E-05	4.26E-05	2.05E-03	8.23E-03
2.42E-04	4.13E-03	1.96E-03	5.40E-05	2.10E-03	2.10E-03	1.06E-02	2.42E-04	4.13E-03	1.96E-03	5.40E-05	4.39E-05	2.10E-03	8.53E-03
2.59E-04	4.34E-03	1.99E-03	5.43E-05	2.15E-03	2.15E-03	1.09E-02	2.59E-04	4.34E-03	1.99E-03	5.43E-05	4.52E-05	2.15E-03	8.84E-03
2.79E-04	4.50E-03	2.02E-03	5.50E-05	2.20E-03	2.20E-03	1.13E-02	2.79E-04	4.50E-03	2.02E-03	5.50E-05	4.56E-05	2.20E-03	9.10E-03
3.04E-04	4.49E-03	2.03E-03	5.53E-05	2.20E-03	2.20E-03	1.13E-02	3.04E-04	4.49E-03	2.03E-03	5.53E-05	4.65E-05	2.20E-03	9.13E-03
3.34E-04	4.44E-03	2.07E-03	5.54E-05	2.15E-03	2.15E-03	1.12E-02	3.34E-04	4.44E-03	2.07E-03	5.54E-05	4.65E-05	2.15E-03	9.10E-03
3.70E-04	4.35E-03	2.10E-03	5.54E-05	2.12E-03	2.12E-03	1.11E-02	3.70E-04	4.35E-03	2.10E-03	5.54E-05	4.69E-05	2.12E-03	9.03E-03
4.16E-04	4.39E-03	2.06E-03	5.64E-05	2.13E-03	2.13E-03	1.12E-02	4.16E-04	4.39E-03	2.06E-03	5.64E-05	4.94E-05	2.13E-03	9.11E-03
4.79E-04	4.46E-03	1.97E-03	5.56E-05	2.13E-03	2.13E-03	1.12E-02	4.79E-04	4.46E-03	1.97E-03	5.56E-05	4.94E-05	2.13E-03	9.14E-03
5.57E-04	4.42E-03	1.90E-03	5.32E-05	2.11E-03	2.11E-03	1.12E-02	5.57E-04	4.42E-03	1.90E-03	5.32E-05	4.68E-05	2.11E-03	9.09E-03
6.52E-04	4.27E-03	1.87E-03	5.11E-05	2.08E-03	2.08E-03	1.10E-02	6.52E-04	4.27E-03	1.87E-03	5.11E-05	4.44E-05	2.08E-03	8.97E-03
7.91E-04	4.10E-03	1.88E-03	5.01E-05	2.04E-03	2.04E-03	1.09E-02	7.91E-04	4.10E-03	1.88E-03	5.01E-05	4.37E-05	2.04E-03	8.91E-03
9.92E-04	4.19E-03	1.92E-03	5.01E-05	2.00E-03	2.00E-03	1.12E-02	9.92E-04	4.19E-03	1.92E-03	5.01E-05	4.38E-05	2.00E-03	9.20E-03
1.29E-03	4.26E-03	1.97E-03	5.04E-05	1.93E-03	1.93E-03	1.14E-02	1.29E-03	4.26E-03	1.97E-03	5.04E-05	4.38E-05	1.93E-03	9.54E-03
1.93E-03	4.18E-03	2.01E-03	5.11E-05	1.86E-03	1.86E-03	1.19E-02	1.93E-03	4.18E-03	2.01E-03	5.11E-05	4.46E-05	1.86E-03	1.01E-02
3.82E-03	4.01E-03	2.02E-03	5.18E-05	1.80E-03	1.80E-03	1.35E-02	3.82E-03	4.01E-03	2.02E-03	5.18E-05	4.60E-05	1.80E-03	1.18E-02
3.29E-02	3.92E-03	2.04E-03	5.28E-05	1.76E-03	1.76E-03	4.25E-02	3.29E-02	3.92E-03	2.04E-03	5.28E-05	4.82E-05	1.76E-03	4.08E-02
1.99E-02	3.75E-03	2.00E-03	5.25E-05	1.69E-03	1.69E-03	2.91E-02	1.99E-02	3.75E-03	2.00E-03	5.25E-05	4.89E-05	1.69E-03	2.74E-02
5.40E-02	3.62E-03	1.96E-03	5.20E-05	1.64E-03	1.64E-03	6.29E-02	5.40E-02	3.62E-03	1.96E-03	5.20E-05	4.89E-05	1.64E-03	6.13E-02
6.81E-03	3.49E-03	1.91E-03	5.10E-05	1.59E-03	1.59E-03	1.54E-02	6.81E-03	3.49E-03	1.91E-03	5.10E-05	4.79E-05	1.59E-03	1.39E-02
7.67E-05	1.05E-03	6.91E-04	1.97E-05	3.38E-04	3.38E-04	2.51E-03	7.67E-05	1.05E-03	6.91E-04	1.97E-05	1.92E-05	3.38E-04	2.19E-03
7.83E-05	1.07E-03	7.17E-04	2.03E-05	3.53E-04	3.53E-04	2.59E-03	7.83E-05	1.07E-03	7.17E-04	2.03E-05	1.96E-05	3.53E-04	2.26E-03
7.99E-05	1.09E-03	7.44E-04	2.10E-05	3.69E-04	3.69E-04	2.68E-03	7.99E-05	1.09E-03	7.44E-04	2.10E-05	2.01E-05	3.69E-04	2.33E-03
8.11E-05	1.12E-03	7.71E-04	2.18E-05	3.83E-04	3.83E-04	2.76E-03	8.11E-05	1.12E-03	7.71E-04	2.18E-05	2.05E-05	3.83E-04	2.40E-03
8.27E-05	1.15E-03	8.02E-04	2.26E-05	3.99E-04	3.99E-04	2.85E-03	8.27E-05	1.15E-03	8.02E-04	2.26E-05	2.11E-05	3.99E-04	2.48E-03
8.39E-05	1.18E-03	8.30E-04	2.34E-05	4.15E-04	4.15E-04	2.94E-03	8.39E-05	1.18E-03	8.30E-04	2.34E-05	2.17E-05	4.15E-04	2.55E-03
8.51E-05	1.20E-03	8.55E-04	2.43E-05	4.31E-04	4.31E-04	3.03E-03	8.51E-05	1.20E-03	8.55E-04	2.43E-05	2.23E-05	4.31E-04	2.62E-03
8.67E-05	1.22E-03	8.85E-04	2.53E-05	4.48E-04	4.48E-04	3.11E-03	8.67E-05	1.22E-03	8.85E-04	2.53E-05	2.29E-05	4.48E-04	2.69E-03
8.91E-05	1.24E-03	9.25E-04	2.61E-05	4.71E-04	4.71E-04	3.22E-03	8.91E-05	1.24E-03	9.25E-04	2.61E-05	2.33E-05	4.71E-04	2.78E-03
9.07E-05	1.26E-03	9.63E-04	2.71E-05	4.94E-04	4.94E-04	3.33E-03	9.07E-05	1.26E-03	9.63E-04	2.71E-05	2.36E-05	4.94E-04	2.86E-03
9.27E-05	1.29E-03	1.00E-03	2.80E-05	5.19E-04	5.19E-04	3.45E-03	9.27E-05	1.29E-03	1.00E-03	2.80E-05	2.38E-05	5.19E-04	2.95E-03
9.39E-05	1.31E-03	1.04E-03	2.92E-05	5.40E-04	5.40E-04	3.55E-03	9.39E-05	1.31E-03	1.04E-03	2.92E-05	2.43E-05	5.40E-04	3.04E-03
9.55E-05	1.33E-03	1.07E-03	3.05E-05	5.57E-04	5.57E-04	3.65E-03	9.55E-05	1.33E-03	1.07E-03	3.05E-05	2.52E-05	5.57E-04	3.11E-03
9.35E-05	1.31E-03	1.07E-03	3.10E-05	5.22E-04	5.22E-04	3.55E-03	9.35E-05	1.31E-03	1.07E-03	3.10E-05	2.63E-05	5.22E-04	3.06E-03
8.67E-05	1.17E-03	9.49E-04	2.94E-05	4.05E-04	4.05E-04	3.05E-03	8.67E-05	1.17E-03	9.49E-04	2.94E-05	2.63E-05	4.05E-04	2.67E-03
8.75E-05	1.19E-03	1.00E-03	3.09E-05	4.30E-04	4.30E-04	3.17E-03	8.75E-05	1.19E-03	1.00E-03	3.09E-05	2.80E-05	4.30E-04	2.77E-03
8.99E-05	1.24E-03	1.07E-03	3.30E-05	4.71E-04	4.71E-04	3.38E-03	8.99E-05	1.24E-03	1.07E-03	3.30E-05	2.94E-05	4.71E-04	2.94E-03
1.06E-04	1.51E-03	1.34E-03	3.83E-05	7.83E-04	7.83E-04	4.56E-03	1.06E-04	1.51E-03	1.34E-03	3.83E-05	3.30E-05	7.83E-04	3.81E-03
1.10E-04	1.56E-03	1.40E-03	3.99E-05	8.58E-04	8.58E-04	4.82E-03	1.10E-04	1.56E-03	1.40E-03	3.99E-05	3.48E-05	8.58E-04	4.00E-03
1.13E-04	1.61E-03	1.46E-03	4.15E-05	9.15E-04	9.15E-04	5.05E-03	1.13E-04	1.61E-03	1.46E-03	4.15E-05	3.70E-05	9.15E-04	4.18E-03
1.17E-04	1.66E-03	1.52E-03	4.27E-05	9.70E-04	9.70E-04	5.28E-03	1.17E-04	1.66E-03	1.52E-03	4.27E-05	3.88E-05	9.70E-04	4.35E-03
1.21E-04	1.72E-03	1.59E-03	4.48E-05	1.00E-03	1.00E-03	5.48E-03	1.21E-04	1.72E-03	1.59E-03	4.48E-05	4.03E-05	1.00E-03	4.52E-03
1.25E-04	1.77E-03	1.64E-03	4.62E-05	1.06E-03	1.06E-03	5.70E-03	1.25E-04	1.77E-03	1.64E-03	4.62E-05	4.06E-05	1.06E-03	4.68E-03
1.28E-04	1.83E-03	1.69E-03	4.79E-05	1.11E-03	1.11E-03	5.92E-03	1.28E-04	1.83E-03	1.69E-03	4.79E-05	4.21E-05	1.11E-03	4.85E-03
1.31E-04	1.90E-03	1.73E-03	4.92E-05	1.17E-03	1.17E-03	6.15E-03	1.31E-04	1.90E-03	1.73E-03	4.92E-05	4.29E-05	1.17E-03	5.02E-03
1.35E-04	1.98E-03	1.75E-03	5.00E-05	1.22E-03	1.22E-03	6.36E-03	1.35E-04	1.98E-03	1.75E-03	5.00E-05	4.25E-05	1.22E-03	5.18E-03
1.40E-04	2.07E-03	1.75E-03	5.07E-05	1.27E-03	1.27E-03	6.55E-03	1.40E-04	2.07E-03	1.75E-03	5.07E-05	4.20E-05	1.27E-03	5.33E-03
1.45E-04	2.15E-03	1.74E-03	5.01E-05	1.33E-03	1.33E-03	6.75E-03	1.45E-04	2.15E-03	1.74E-03	5.01E-05	4.15E-05	1.33E-03	5.45E-03
1.50E-04	2.24E-03	1.73E-03	4.99E-05	1.42E-03	1.42E-03	7.02E-03	1.50E-04	2.24E-03	1.73E-03	4.99E-05	4.03E-05	1.42E-03	5.64E-03

1.55E-04	2.35E-03	1.72E-03	4.97E-05	1.50E-03	1.50E-03	7.27E-03	1.55E-04	2.35E-03	1.72E-03	4.97E-05	3.80E-05	1.50E-03	5.81E-03
1.60E-04	2.49E-03	1.71E-03	4.97E-05	1.58E-03	1.58E-03	7.56E-03	1.60E-04	2.49E-03	1.71E-03	4.97E-05	3.72E-05	1.58E-03	6.02E-03
1.67E-04	2.63E-03	1.68E-03	4.89E-05	1.58E-03	1.58E-03	7.69E-03	1.67E-04	2.63E-03	1.68E-03	4.89E-05	3.68E-05	1.58E-03	6.14E-03
1.75E-04	2.78E-03	1.66E-03	4.84E-05	1.62E-03	1.62E-03	7.90E-03	1.75E-04	2.78E-03	1.66E-03	4.84E-05	3.78E-05	1.62E-03	6.32E-03
1.84E-04	2.94E-03	1.66E-03	4.80E-05	1.64E-03	1.64E-03	8.10E-03	1.84E-04	2.94E-03	1.66E-03	4.80E-05	3.91E-05	1.64E-03	6.50E-03
1.93E-04	3.12E-03	1.67E-03	4.78E-05	1.59E-03	1.59E-03	8.21E-03	1.93E-04	3.12E-03	1.67E-03	4.78E-05	3.88E-05	1.59E-03	6.66E-03
2.02E-04	3.28E-03	1.68E-03	4.74E-05	1.58E-03	1.58E-03	8.38E-03	2.02E-04	3.28E-03	1.68E-03	4.74E-05	3.75E-05	1.58E-03	6.84E-03
2.14E-04	3.41E-03	1.69E-03	4.71E-05	1.61E-03	1.61E-03	8.59E-03	2.14E-04	3.41E-03	1.69E-03	4.71E-05	3.78E-05	1.61E-03	7.01E-03
2.28E-04	3.52E-03	1.71E-03	4.72E-05	1.64E-03	1.64E-03	8.78E-03	2.28E-04	3.52E-03	1.71E-03	4.72E-05	3.94E-05	1.64E-03	7.18E-03
2.42E-04	3.56E-03	1.74E-03	4.76E-05	1.67E-03	1.67E-03	8.94E-03	2.42E-04	3.56E-03	1.74E-03	4.76E-05	4.00E-05	1.67E-03	7.31E-03
2.58E-04	3.53E-03	1.75E-03	4.81E-05	1.72E-03	1.72E-03	9.03E-03	2.58E-04	3.53E-03	1.75E-03	4.81E-05	4.02E-05	1.72E-03	7.35E-03
2.75E-04	3.53E-03	1.78E-03	4.88E-05	1.73E-03	1.73E-03	9.11E-03	2.75E-04	3.53E-03	1.78E-03	4.88E-05	4.16E-05	1.73E-03	7.41E-03
2.96E-04	3.43E-03	1.80E-03	4.82E-05	1.68E-03	1.68E-03	8.93E-03	2.96E-04	3.43E-03	1.80E-03	4.82E-05	4.08E-05	1.68E-03	7.29E-03
3.18E-04	3.46E-03	1.83E-03	4.86E-05	1.64E-03	1.64E-03	8.94E-03	3.18E-04	3.46E-03	1.83E-03	4.86E-05	4.15E-05	1.64E-03	7.34E-03
3.46E-04	3.45E-03	1.81E-03	4.93E-05	1.64E-03	1.64E-03	8.94E-03	3.46E-04	3.45E-03	1.81E-03	4.93E-05	4.35E-05	1.64E-03	7.34E-03
3.83E-04	3.52E-03	1.73E-03	4.90E-05	1.66E-03	1.66E-03	9.02E-03	3.83E-04	3.52E-03	1.73E-03	4.90E-05	4.39E-05	1.66E-03	7.40E-03
4.16E-04	3.51E-03	1.67E-03	4.73E-05	1.68E-03	1.68E-03	9.00E-03	4.16E-04	3.51E-03	1.67E-03	4.73E-05	4.21E-05	1.68E-03	7.37E-03
4.61E-04	3.40E-03	1.64E-03	4.53E-05	1.67E-03	1.67E-03	8.88E-03	4.61E-04	3.40E-03	1.64E-03	4.53E-05	3.98E-05	1.67E-03	7.25E-03
5.27E-04	3.22E-03	1.62E-03	4.38E-05	1.64E-03	1.64E-03	8.69E-03	5.27E-04	3.22E-03	1.62E-03	4.38E-05	3.85E-05	1.64E-03	7.09E-03
6.00E-04	3.18E-03	1.64E-03	4.34E-05	1.62E-03	1.62E-03	8.70E-03	6.00E-04	3.18E-03	1.64E-03	4.34E-05	3.84E-05	1.62E-03	7.12E-03
6.78E-04	3.27E-03	1.68E-03	4.36E-05	1.59E-03	1.59E-03	8.85E-03	6.78E-04	3.27E-03	1.68E-03	4.36E-05	3.85E-05	1.59E-03	7.30E-03
7.69E-04	3.32E-03	1.72E-03	4.41E-05	1.55E-03	1.55E-03	8.95E-03	7.69E-04	3.32E-03	1.72E-03	4.41E-05	3.88E-05	1.55E-03	7.44E-03
8.88E-04	3.26E-03	1.75E-03	4.47E-05	1.50E-03	1.50E-03	8.94E-03	8.88E-04	3.26E-03	1.75E-03	4.47E-05	3.96E-05	1.50E-03	7.48E-03
9.66E-04	3.14E-03	1.76E-03	4.51E-05	1.45E-03	1.45E-03	8.81E-03	9.66E-04	3.14E-03	1.76E-03	4.51E-05	4.08E-05	1.45E-03	7.40E-03
9.66E-04	3.03E-03	1.75E-03	4.54E-05	1.41E-03	1.41E-03	8.61E-03	9.66E-04	3.03E-03	1.75E-03	4.54E-05	4.21E-05	1.41E-03	7.24E-03
9.28E-04	2.96E-03	1.73E-03	4.55E-05	1.38E-03	1.38E-03	8.42E-03	9.28E-04	2.96E-03	1.73E-03	4.55E-05	4.29E-05	1.38E-03	7.08E-03
7.51E-05	1.00E-03	6.67E-04	1.89E-05	3.33E-04	3.33E-04	2.43E-03	7.51E-05	1.00E-03	6.67E-04	1.89E-05	1.81E-05	3.33E-04	2.11E-03
7.67E-05	1.02E-03	6.89E-04	1.95E-05	3.46E-04	3.46E-04	2.50E-03	7.67E-05	1.02E-03	6.89E-04	1.95E-05	1.85E-05	3.46E-04	2.17E-03
7.75E-05	1.05E-03	7.13E-04	2.01E-05	3.60E-04	3.60E-04	2.58E-03	7.75E-05	1.05E-03	7.13E-04	2.01E-05	1.89E-05	3.60E-04	2.24E-03
7.91E-05	1.07E-03	7.36E-04	2.08E-05	3.74E-04	3.74E-04	2.66E-03	7.91E-05	1.07E-03	7.36E-04	2.08E-05	1.93E-05	3.74E-04	2.30E-03
8.03E-05	1.10E-03	7.60E-04	2.15E-05	3.89E-04	3.89E-04	2.74E-03	8.03E-05	1.10E-03	7.60E-04	2.15E-05	1.98E-05	3.89E-04	2.37E-03
8.19E-05	1.13E-03	7.84E-04	2.22E-05	4.03E-04	4.03E-04	2.82E-03	8.19E-05	1.13E-03	7.84E-04	2.22E-05	2.02E-05	4.03E-04	2.44E-03
8.31E-05	1.15E-03	8.10E-04	2.30E-05	4.18E-04	4.18E-04	2.90E-03	8.31E-05	1.15E-03	8.10E-04	2.30E-05	2.05E-05	4.18E-04	2.50E-03
8.43E-05	1.17E-03	8.38E-04	2.37E-05	4.39E-04	4.39E-04	2.99E-03	8.43E-05	1.17E-03	8.38E-04	2.37E-05	2.07E-05	4.39E-04	2.58E-03
8.59E-05	1.19E-03	8.69E-04	2.44E-05	4.58E-04	4.58E-04	3.09E-03	8.59E-05	1.19E-03	8.69E-04	2.44E-05	2.09E-05	4.58E-04	2.65E-03
8.75E-05	1.21E-03	9.02E-04	2.52E-05	4.80E-04	4.80E-04	3.19E-03	8.75E-05	1.21E-03	9.02E-04	2.52E-05	2.12E-05	4.80E-04	2.73E-03
8.95E-05	1.24E-03	9.35E-04	2.61E-05	5.08E-04	5.08E-04	3.31E-03	8.95E-05	1.24E-03	9.35E-04	2.61E-05	2.18E-05	5.08E-04	2.82E-03
9.11E-05	1.26E-03	9.71E-04	2.72E-05	5.37E-04	5.37E-04	3.43E-03	9.11E-05	1.26E-03	9.71E-04	2.72E-05	2.26E-05	5.37E-04	2.91E-03
9.27E-05	1.29E-03	1.01E-03	2.84E-05	5.63E-04	5.63E-04	3.54E-03	9.27E-05	1.29E-03	1.01E-03	2.84E-05	2.39E-05	5.63E-04	3.00E-03
9.31E-05	1.30E-03	1.03E-03	2.96E-05	5.71E-04	5.71E-04	3.60E-03	9.31E-05	1.30E-03	1.03E-03	2.96E-05	2.53E-05	5.71E-04	3.05E-03
8.99E-05	1.26E-03	1.03E-03	3.01E-05	5.19E-04	5.19E-04	3.45E-03	8.99E-05	1.26E-03	1.03E-03	3.01E-05	2.65E-05	5.19E-04	2.96E-03
9.19E-05	1.31E-03	1.09E-03	3.19E-05	5.70E-04	5.70E-04	3.66E-03	9.19E-05	1.31E-03	1.09E-03	3.19E-05	2.77E-05	5.70E-04	3.12E-03
9.79E-05	1.40E-03	1.17E-03	3.40E-05	6.73E-04	6.73E-04	4.05E-03	9.79E-05	1.40E-03	1.17E-03	3.40E-05	2.92E-05	6.73E-04	3.41E-03
1.03E-04	1.46E-03	1.23E-03	3.51E-05	7.57E-04	7.57E-04	4.35E-03	1.03E-04	1.46E-03	1.23E-03	3.51E-05	3.05E-05	7.57E-04	3.62E-03
1.06E-04	1.50E-03	1.28E-03	3.64E-05	8.00E-04	8.00E-04	4.52E-03	1.06E-04	1.50E-03	1.28E-03	3.64E-05	3.23E-05	8.00E-04	3.76E-03
1.09E-04	1.55E-03	1.33E-03	3.78E-05	8.36E-04	8.36E-04	4.70E-03	1.09E-04	1.55E-03	1.33E-03	3.78E-05	3.43E-05	8.36E-04	3.90E-03
1.12E-04	1.58E-03	1.38E-03	3.88E-05	8.71E-04	8.71E-04	4.85E-03	1.12E-04	1.58E-03	1.38E-03	3.88E-05	3.53E-05	8.71E-04	4.02E-03
1.16E-04	1.62E-03	1.43E-03	4.03E-05	9.04E-04	9.04E-04	5.01E-03	1.16E-04	1.62E-03	1.43E-03	4.03E-05	3.57E-05	9.04E-04	4.15E-03
1.19E-04	1.66E-03	1.47E-03	4.19E-05	9.44E-04	9.44E-04	5.18E-03	1.19E-04	1.66E-03	1.47E-03	4.19E-05	3.64E-05	9.44E-04	4.28E-03
1.22E-04	1.70E-03	1.51E-03	4.29E-05	9.84E-04	9.84E-04	5.35E-03	1.22E-04	1.70E-03	1.51E-03	4.29E-05	3.75E-05	9.84E-04	4.40E-03
1.25E-04	1.76E-03	1.54E-03	4.38E-05	1.02E-03	1.02E-03	5.50E-03	1.25E-04	1.76E-03	1.54E-03	4.38E-05	3.78E-05	1.02E-03	4.52E-03
1.28E-04	1.82E-03	1.54E-03	4.45E-05	1.05E-03	1.05E-03	5.64E-03	1.28E-04	1.82E-03	1.54E-03	4.45E-05	3.73E-05	1.05E-03	4.63E-03
1.33E-04	1.88E-03	1.54E-03	4.47E-05	1.10E-03	1.10E-03	5.79E-03	1.33E-04	1.88E-03	1.54E-03	4.47E-05	3.70E-05	1.10E-03	4.73E-03
1.37E-04	1.95E-03	1.53E-03	4.47E-05	1.16E-03	1.16E-03	5.98E-03	1.37E-04	1.95E-03	1.53E-03	4.47E-05	3.72E-05	1.16E-03	4.86E-03

1.41E-04	2.03E-03	1.51E-03	4.42E-05	1.22E-03	1.22E-03	6.16E-03	1.41E-04	2.03E-03	1.51E-03	4.42E-05	3.56E-05	1.22E-03	4.98E-03
1.45E-04	2.12E-03	1.50E-03	4.40E-05	1.28E-03	1.28E-03	6.36E-03	1.45E-04	2.12E-03	1.50E-03	4.40E-05	3.37E-05	1.28E-03	5.12E-03
1.49E-04	2.21E-03	1.50E-03	4.37E-05	1.31E-03	1.31E-03	6.52E-03	1.49E-04	2.21E-03	1.50E-03	4.37E-05	3.29E-05	1.31E-03	5.24E-03
1.54E-04	2.32E-03	1.48E-03	4.34E-05	1.30E-03	1.30E-03	6.59E-03	1.54E-04	2.32E-03	1.48E-03	4.34E-05	3.26E-05	1.30E-03	5.33E-03
1.61E-04	2.43E-03	1.46E-03	4.30E-05	1.31E-03	1.31E-03	6.72E-03	1.61E-04	2.43E-03	1.46E-03	4.30E-05	3.35E-05	1.31E-03	5.44E-03
1.68E-04	2.57E-03	1.45E-03	4.25E-05	1.32E-03	1.32E-03	6.87E-03	1.68E-04	2.57E-03	1.45E-03	4.25E-05	3.47E-05	1.32E-03	5.59E-03
1.75E-04	2.69E-03	1.46E-03	4.23E-05	1.29E-03	1.29E-03	6.95E-03	1.75E-04	2.69E-03	1.46E-03	4.23E-05	3.49E-05	1.29E-03	5.70E-03
1.82E-04	2.81E-03	1.48E-03	4.21E-05	1.27E-03	1.27E-03	7.05E-03	1.82E-04	2.81E-03	1.48E-03	4.21E-05	3.36E-05	1.27E-03	5.81E-03
1.90E-04	2.88E-03	1.48E-03	4.17E-05	1.29E-03	1.29E-03	7.18E-03	1.90E-04	2.88E-03	1.48E-03	4.17E-05	3.31E-05	1.29E-03	5.92E-03
2.00E-04	2.91E-03	1.49E-03	4.15E-05	1.31E-03	1.31E-03	7.26E-03	2.00E-04	2.91E-03	1.49E-03	4.15E-05	3.42E-05	1.31E-03	5.98E-03
2.10E-04	2.92E-03	1.51E-03	4.17E-05	1.33E-03	1.33E-03	7.34E-03	2.10E-04	2.92E-03	1.51E-03	4.17E-05	3.54E-05	1.33E-03	6.05E-03
2.21E-04	2.92E-03	1.54E-03	4.23E-05	1.37E-03	1.37E-03	7.45E-03	2.21E-04	2.92E-03	1.54E-03	4.23E-05	3.56E-05	1.37E-03	6.12E-03
2.32E-04	2.85E-03	1.54E-03	4.25E-05	1.40E-03	1.40E-03	7.46E-03	2.32E-04	2.85E-03	1.54E-03	4.25E-05	3.60E-05	1.40E-03	6.10E-03
2.44E-04	2.82E-03	1.55E-03	4.27E-05	1.40E-03	1.40E-03	7.47E-03	2.44E-04	2.82E-03	1.55E-03	4.27E-05	3.67E-05	1.40E-03	6.10E-03
2.54E-04	2.89E-03	1.60E-03	4.31E-05	1.38E-03	1.38E-03	7.54E-03	2.54E-04	2.89E-03	1.60E-03	4.31E-05	3.67E-05	1.38E-03	6.20E-03
2.48E-04	2.93E-03	1.66E-03	4.43E-05	1.35E-03	1.35E-03	7.58E-03	2.48E-04	2.93E-03	1.66E-03	4.43E-05	3.81E-05	1.35E-03	6.27E-03
2.37E-04	2.97E-03	1.66E-03	4.57E-05	1.34E-03	1.34E-03	7.58E-03	2.37E-04	2.97E-03	1.66E-03	4.57E-05	4.06E-05	1.34E-03	6.29E-03
2.52E-04	2.98E-03	1.59E-03	4.54E-05	1.35E-03	1.35E-03	7.58E-03	2.52E-04	2.98E-03	1.59E-03	4.54E-05	4.10E-05	1.35E-03	6.26E-03
2.82E-04	2.95E-03	1.51E-03	4.32E-05	1.38E-03	1.38E-03	7.54E-03	2.82E-04	2.95E-03	1.51E-03	4.32E-05	3.89E-05	1.38E-03	6.20E-03
2.86E-04	2.88E-03	1.48E-03	4.15E-05	1.38E-03	1.38E-03	7.45E-03	2.86E-04	2.88E-03	1.48E-03	4.15E-05	3.68E-05	1.38E-03	6.10E-03
2.80E-04	2.76E-03	1.48E-03	4.07E-05	1.38E-03	1.38E-03	7.32E-03	2.80E-04	2.76E-03	1.48E-03	4.07E-05	3.59E-05	1.38E-03	5.98E-03
2.84E-04	2.71E-03	1.49E-03	4.03E-05	1.38E-03	1.38E-03	7.27E-03	2.84E-04	2.71E-03	1.49E-03	4.03E-05	3.58E-05	1.38E-03	5.93E-03
3.98E-04	2.66E-03	1.47E-03	3.89E-05	1.35E-03	1.35E-03	7.28E-03	3.98E-04	2.66E-03	1.47E-03	3.89E-05	3.47E-05	1.35E-03	5.96E-03
4.12E-04	2.67E-03	1.48E-03	3.83E-05	1.31E-03	1.31E-03	7.21E-03	4.12E-04	2.67E-03	1.48E-03	3.83E-05	3.42E-05	1.31E-03	5.94E-03
4.06E-04	2.69E-03	1.51E-03	3.88E-05	1.28E-03	1.28E-03	7.20E-03	4.06E-04	2.69E-03	1.51E-03	3.88E-05	3.45E-05	1.28E-03	5.95E-03
3.94E-04	2.65E-03	1.54E-03	3.95E-05	1.24E-03	1.24E-03	7.11E-03	3.94E-04	2.65E-03	1.54E-03	3.95E-05	3.55E-05	1.24E-03	5.90E-03
3.91E-04	2.57E-03	1.55E-03	3.99E-05	1.21E-03	1.21E-03	6.97E-03	3.91E-04	2.57E-03	1.55E-03	3.99E-05	3.66E-05	1.21E-03	5.79E-03
7.27E-05	9.61E-04	6.38E-04	1.81E-05	3.28E-04	3.28E-04	2.35E-03	7.27E-05	9.61E-04	6.38E-04	1.81E-05	1.70E-05	3.28E-04	2.03E-03
7.43E-05	9.83E-04	6.57E-04	1.87E-05	3.36E-04	3.36E-04	2.40E-03	7.43E-05	9.83E-04	6.57E-04	1.87E-05	1.74E-05	3.36E-04	2.09E-03
7.51E-05	1.01E-03	6.77E-04	1.92E-05	3.48E-04	3.48E-04	2.48E-03	7.51E-05	1.01E-03	6.77E-04	1.92E-05	1.77E-05	3.48E-04	2.15E-03
7.67E-05	1.04E-03	6.97E-04	1.98E-05	3.61E-04	3.61E-04	2.55E-03	7.67E-05	1.04E-03	6.97E-04	1.98E-05	1.80E-05	3.61E-04	2.21E-03
7.79E-05	1.06E-03	7.17E-04	2.04E-05	3.76E-04	3.76E-04	2.63E-03	7.79E-05	1.06E-03	7.17E-04	2.04E-05	1.82E-05	3.76E-04	2.27E-03
7.95E-05	1.09E-03	7.39E-04	2.10E-05	3.89E-04	3.89E-04	2.70E-03	7.95E-05	1.09E-03	7.39E-04	2.10E-05	1.83E-05	3.89E-04	2.33E-03
8.03E-05	1.11E-03	7.62E-04	2.16E-05	4.06E-04	4.06E-04	2.78E-03	8.03E-05	1.11E-03	7.62E-04	2.16E-05	1.85E-05	4.06E-04	2.40E-03
8.19E-05	1.13E-03	7.86E-04	2.21E-05	4.28E-04	4.28E-04	2.87E-03	8.19E-05	1.13E-03	7.86E-04	2.21E-05	1.87E-05	4.28E-04	2.46E-03
8.35E-05	1.15E-03	8.14E-04	2.28E-05	4.48E-04	4.48E-04	2.96E-03	8.35E-05	1.15E-03	8.14E-04	2.28E-05	1.92E-05	4.48E-04	2.54E-03
8.51E-05	1.17E-03	8.40E-04	2.35E-05	4.76E-04	4.76E-04	3.07E-03	8.51E-05	1.17E-03	8.40E-04	2.35E-05	1.97E-05	4.76E-04	2.61E-03
8.67E-05	1.19E-03	8.69E-04	2.45E-05	5.00E-04	5.00E-04	3.17E-03	8.67E-05	1.19E-03	8.69E-04	2.45E-05	2.05E-05	5.00E-04	2.69E-03
8.83E-05	1.21E-03	9.00E-04	2.55E-05	5.26E-04	5.26E-04	3.28E-03	8.83E-05	1.21E-03	9.00E-04	2.55E-05	2.15E-05	5.26E-04	2.77E-03
8.95E-05	1.24E-03	9.35E-04	2.66E-05	5.50E-04	5.50E-04	3.39E-03	8.95E-05	1.24E-03	9.35E-04	2.66E-05	2.27E-05	5.50E-04	2.86E-03
9.07E-05	1.26E-03	9.72E-04	2.79E-05	5.63E-04	5.63E-04	3.48E-03	9.07E-05	1.26E-03	9.72E-04	2.79E-05	2.39E-05	5.63E-04	2.94E-03
8.91E-05	1.26E-03	9.91E-04	2.90E-05	5.44E-04	5.44E-04	3.45E-03	8.91E-05	1.26E-03	9.91E-04	2.90E-05	2.49E-05	5.44E-04	2.93E-03
9.39E-05	1.33E-03	1.06E-03	3.04E-05	6.20E-04	6.20E-04	3.75E-03	9.39E-05	1.33E-03	1.06E-03	3.04E-05	2.60E-05	6.20E-04	3.16E-03
9.67E-05	1.38E-03	1.10E-03	3.14E-05	6.66E-04	6.66E-04	3.93E-03	9.67E-05	1.38E-03	1.10E-03	3.14E-05	2.71E-05	6.66E-04	3.29E-03
9.99E-05	1.41E-03	1.13E-03	3.24E-05	7.00E-04	7.00E-04	4.07E-03	9.99E-05	1.41E-03	1.13E-03	3.24E-05	2.86E-05	7.00E-04	3.40E-03
1.02E-04	1.43E-03	1.17E-03	3.35E-05	7.30E-04	7.30E-04	4.20E-03	1.02E-04	1.43E-03	1.17E-03	3.35E-05	3.02E-05	7.30E-04	3.50E-03
1.05E-04	1.46E-03	1.22E-03	3.46E-05	7.55E-04	7.55E-04	4.33E-03	1.05E-04	1.46E-03	1.22E-03	3.46E-05	3.15E-05	7.55E-04	3.61E-03
1.07E-04	1.49E-03	1.26E-03	3.57E-05	7.79E-04	7.79E-04	4.45E-03	1.07E-04	1.49E-03	1.26E-03	3.57E-05	3.19E-05	7.79E-04	3.70E-03
1.11E-04	1.51E-03	1.30E-03	3.69E-05	8.06E-04	8.06E-04	4.57E-03	1.11E-04	1.51E-03	1.30E-03	3.69E-05	3.21E-05	8.06E-04	3.79E-03
1.13E-04	1.55E-03	1.33E-03	3.81E-05	8.36E-04	8.36E-04	4.70E-03	1.13E-04	1.55E-03	1.33E-03	3.81E-05	3.30E-05	8.36E-04	3.90E-03
1.15E-04	1.58E-03	1.36E-03	3.88E-05	8.66E-04	8.66E-04	4.82E-03	1.15E-04	1.58E-03	1.36E-03	3.88E-05	3.37E-05	8.66E-04	3.99E-03
1.18E-04	1.61E-03	1.37E-03	3.94E-05	8.97E-04	8.97E-04	4.94E-03	1.18E-04	1.61E-03	1.37E-03	3.94E-05	3.34E-05	8.97E-04	4.08E-03
1.21E-04	1.66E-03	1.37E-03	4.00E-05	9.31E-04	9.31E-04	5.06E-03	1.21E-04	1.66E-03	1.37E-03	4.00E-05	3.31E-05	9.31E-04	4.16E-03
1.24E-04	1.72E-03	1.36E-03	4.00E-05	9.71E-04	9.71E-04	5.18E-03	1.24E-04	1.72E-03	1.36E-03	4.00E-05	3.32E-05	9.71E-04	4.25E-03

1.27E-04	1.78E-03	1.35E-03	3.99E-05	1.01E-03	1.01E-03	5.32E-03	1.27E-04	1.78E-03	1.35E-03	3.99E-05	3.34E-05	1.01E-03	4.34E-03
1.31E-04	1.84E-03	1.34E-03	3.96E-05	1.05E-03	1.05E-03	5.45E-03	1.31E-04	1.84E-03	1.34E-03	3.96E-05	3.17E-05	1.05E-03	4.43E-03
1.34E-04	1.91E-03	1.34E-03	3.95E-05	1.10E-03	1.10E-03	5.62E-03	1.34E-04	1.91E-03	1.34E-03	3.95E-05	3.03E-05	1.10E-03	4.55E-03
1.37E-04	1.99E-03	1.32E-03	3.89E-05	1.10E-03	1.10E-03	5.68E-03	1.37E-04	1.99E-03	1.32E-03	3.89E-05	2.94E-05	1.10E-03	4.61E-03
1.41E-04	2.08E-03	1.31E-03	3.86E-05	1.09E-03	1.09E-03	5.75E-03	1.41E-04	2.08E-03	1.31E-03	3.86E-05	2.90E-05	1.09E-03	4.69E-03
1.46E-04	2.17E-03	1.29E-03	3.84E-05	1.09E-03	1.09E-03	5.82E-03	1.46E-04	2.17E-03	1.29E-03	3.84E-05	2.98E-05	1.09E-03	4.76E-03
1.52E-04	2.27E-03	1.29E-03	3.80E-05	1.09E-03	1.09E-03	5.93E-03	1.52E-04	2.27E-03	1.29E-03	3.80E-05	3.11E-05	1.09E-03	4.87E-03
1.58E-04	2.36E-03	1.29E-03	3.79E-05	1.08E-03	1.08E-03	6.01E-03	1.58E-04	2.36E-03	1.29E-03	3.79E-05	3.15E-05	1.08E-03	4.96E-03
1.64E-04	2.44E-03	1.31E-03	3.77E-05	1.06E-03	1.06E-03	6.06E-03	1.64E-04	2.44E-03	1.31E-03	3.77E-05	3.06E-05	1.06E-03	5.04E-03
1.71E-04	2.47E-03	1.31E-03	3.73E-05	1.07E-03	1.07E-03	6.13E-03	1.71E-04	2.47E-03	1.31E-03	3.73E-05	2.96E-05	1.07E-03	5.09E-03
1.77E-04	2.47E-03	1.32E-03	3.71E-05	1.09E-03	1.09E-03	6.18E-03	1.77E-04	2.47E-03	1.32E-03	3.71E-05	3.00E-05	1.09E-03	5.12E-03
1.84E-04	2.46E-03	1.33E-03	3.71E-05	1.09E-03	1.09E-03	6.20E-03	1.84E-04	2.46E-03	1.33E-03	3.71E-05	3.14E-05	1.09E-03	5.14E-03
1.90E-04	2.46E-03	1.35E-03	3.74E-05	1.11E-03	1.11E-03	6.27E-03	1.90E-04	2.46E-03	1.35E-03	3.74E-05	3.20E-05	1.11E-03	5.19E-03
1.96E-04	2.42E-03	1.37E-03	3.78E-05	1.14E-03	1.14E-03	6.30E-03	1.96E-04	2.42E-03	1.37E-03	3.78E-05	3.18E-05	1.14E-03	5.19E-03
1.95E-04	2.45E-03	1.40E-03	3.92E-05	1.19E-03	1.19E-03	6.46E-03	1.95E-04	2.45E-03	1.40E-03	3.92E-05	3.34E-05	1.19E-03	5.31E-03
1.73E-04	2.44E-03	1.43E-03	4.02E-05	1.19E-03	1.19E-03	6.46E-03	1.73E-04	2.44E-03	1.43E-03	4.02E-05	3.48E-05	1.19E-03	5.31E-03
1.54E-04	2.28E-03	1.44E-03	4.02E-05	1.10E-03	1.10E-03	6.12E-03	1.54E-04	2.28E-03	1.44E-03	4.02E-05	3.45E-05	1.10E-03	5.05E-03
1.59E-04	2.32E-03	1.50E-03	4.03E-05	1.06E-03	1.06E-03	6.14E-03	1.59E-04	2.32E-03	1.50E-03	4.03E-05	3.51E-05	1.06E-03	5.12E-03
1.71E-04	2.40E-03	1.49E-03	4.13E-05	1.07E-03	1.07E-03	6.24E-03	1.71E-04	2.40E-03	1.49E-03	4.13E-05	3.68E-05	1.07E-03	5.20E-03
1.87E-04	2.49E-03	1.43E-03	4.10E-05	1.10E-03	1.10E-03	6.35E-03	1.87E-04	2.49E-03	1.43E-03	4.10E-05	3.71E-05	1.10E-03	5.29E-03
1.92E-04	2.48E-03	1.36E-03	3.94E-05	1.13E-03	1.13E-03	6.33E-03	1.92E-04	2.48E-03	1.36E-03	3.94E-05	3.58E-05	1.13E-03	5.24E-03
1.98E-04	2.46E-03	1.33E-03	3.77E-05	1.14E-03	1.14E-03	6.31E-03	1.98E-04	2.46E-03	1.33E-03	3.77E-05	3.38E-05	1.14E-03	5.20E-03
1.99E-04	2.34E-03	1.31E-03	3.66E-05	1.15E-03	1.15E-03	6.18E-03	1.99E-04	2.34E-03	1.31E-03	3.66E-05	3.25E-05	1.15E-03	5.07E-03
2.25E-04	2.27E-03	1.30E-03	3.56E-05	1.16E-03	1.16E-03	6.15E-03	2.25E-04	2.27E-03	1.30E-03	3.56E-05	3.17E-05	1.16E-03	5.02E-03
2.54E-04	2.23E-03	1.30E-03	3.49E-05	1.16E-03	1.16E-03	6.13E-03	2.54E-04	2.23E-03	1.30E-03	3.49E-05	3.14E-05	1.16E-03	5.01E-03
2.62E-04	2.25E-03	1.31E-03	3.45E-05	1.14E-03	1.14E-03	6.13E-03	2.62E-04	2.25E-03	1.31E-03	3.45E-05	3.11E-05	1.14E-03	5.02E-03
2.58E-04	2.29E-03	1.34E-03	3.47E-05	1.12E-03	1.12E-03	6.15E-03	2.58E-04	2.29E-03	1.34E-03	3.47E-05	3.11E-05	1.12E-03	5.06E-03
2.50E-04	2.27E-03	1.36E-03	3.49E-05	1.09E-03	1.09E-03	6.09E-03	2.50E-04	2.27E-03	1.36E-03	3.49E-05	3.13E-05	1.09E-03	5.04E-03
7.11E-05	9.30E-04	6.08E-04	1.73E-05	3.16E-04	3.16E-04	2.26E-03	7.11E-05	9.30E-04	6.08E-04	1.73E-05	1.60E-05	3.16E-04	1.96E-03
7.19E-05	9.54E-04	6.25E-04	1.78E-05	3.25E-04	3.25E-04	2.32E-03	7.19E-05	9.54E-04	6.25E-04	1.78E-05	1.62E-05	3.25E-04	2.01E-03
7.35E-05	9.79E-04	6.42E-04	1.83E-05	3.36E-04	3.36E-04	2.38E-03	7.35E-05	9.79E-04	6.42E-04	1.83E-05	1.64E-05	3.36E-04	2.06E-03
7.47E-05	1.00E-03	6.59E-04	1.88E-05	3.48E-04	3.48E-04	2.45E-03	7.47E-05	1.00E-03	6.59E-04	1.88E-05	1.65E-05	3.48E-04	2.12E-03
7.59E-05	1.03E-03	6.76E-04	1.92E-05	3.64E-04	3.64E-04	2.52E-03	7.59E-05	1.03E-03	6.76E-04	1.92E-05	1.65E-05	3.64E-04	2.18E-03
7.71E-05	1.05E-03	6.94E-04	1.97E-05	3.80E-04	3.80E-04	2.60E-03	7.71E-05	1.05E-03	6.94E-04	1.97E-05	1.67E-05	3.80E-04	2.24E-03
7.83E-05	1.07E-03	7.15E-04	2.02E-05	3.98E-04	3.98E-04	2.68E-03	7.83E-05	1.07E-03	7.15E-04	2.02E-05	1.71E-05	3.98E-04	2.30E-03
7.95E-05	1.09E-03	7.36E-04	2.07E-05	4.20E-04	4.20E-04	2.76E-03	7.95E-05	1.09E-03	7.36E-04	2.07E-05	1.75E-05	4.20E-04	2.36E-03
8.07E-05	1.11E-03	7.59E-04	2.14E-05	4.41E-04	4.41E-04	2.85E-03	8.07E-05	1.11E-03	7.59E-04	2.14E-05	1.81E-05	4.41E-04	2.43E-03
8.23E-05	1.13E-03	7.81E-04	2.21E-05	4.62E-04	4.62E-04	2.94E-03	8.23E-05	1.13E-03	7.81E-04	2.21E-05	1.87E-05	4.62E-04	2.49E-03
8.35E-05	1.15E-03	8.08E-04	2.31E-05	4.80E-04	4.80E-04	3.02E-03	8.35E-05	1.15E-03	8.08E-04	2.31E-05	1.95E-05	4.80E-04	2.56E-03
8.51E-05	1.17E-03	8.38E-04	2.40E-05	4.98E-04	4.98E-04	3.11E-03	8.51E-05	1.17E-03	8.38E-04	2.40E-05	2.05E-05	4.98E-04	2.63E-03
8.71E-05	1.19E-03	8.71E-04	2.49E-05	5.21E-04	5.21E-04	3.21E-03	8.71E-05	1.19E-03	8.71E-04	2.49E-05	2.14E-05	5.21E-04	2.71E-03
8.87E-05	1.22E-03	9.08E-04	2.59E-05	5.44E-04	5.44E-04	3.33E-03	8.87E-05	1.22E-03	9.08E-04	2.59E-05	2.22E-05	5.44E-04	2.80E-03
8.99E-05	1.25E-03	9.46E-04	2.69E-05	5.70E-04	5.70E-04	3.45E-03	8.99E-05	1.25E-03	9.46E-04	2.69E-05	2.30E-05	5.70E-04	2.90E-03
9.15E-05	1.28E-03	9.82E-04	2.80E-05	5.96E-04	5.96E-04	3.58E-03	9.15E-05	1.28E-03	9.82E-04	2.80E-05	2.41E-05	5.96E-04	3.00E-03
9.31E-05	1.31E-03	1.01E-03	2.89E-05	6.20E-04	6.20E-04	3.69E-03	9.31E-05	1.31E-03	1.01E-03	2.89E-05	2.54E-05	6.20E-04	3.09E-03
9.51E-05	1.33E-03	1.05E-03	3.00E-05	6.42E-04	6.42E-04	3.79E-03	9.51E-05	1.33E-03	1.05E-03	3.00E-05	2.69E-05	6.42E-04	3.17E-03
9.67E-05	1.35E-03	1.09E-03	3.11E-05	6.61E-04	6.61E-04	3.88E-03	9.67E-05	1.35E-03	1.09E-03	3.11E-05	2.82E-05	6.61E-04	3.25E-03
9.87E-05	1.36E-03	1.12E-03	3.18E-05	6.77E-04	6.77E-04	3.97E-03	9.87E-05	1.36E-03	1.12E-03	3.18E-05	2.87E-05	6.77E-04	3.32E-03
1.01E-04	1.39E-03	1.15E-03	3.27E-05	6.94E-04	6.94E-04	4.06E-03	1.01E-04	1.39E-03	1.15E-03	3.27E-05	2.87E-05	6.94E-04	3.39E-03
1.04E-04	1.41E-03	1.18E-03	3.37E-05	7.19E-04	7.19E-04	4.17E-03	1.04E-04	1.41E-03	1.18E-03	3.37E-05	2.91E-05	7.19E-04	3.48E-03
1.06E-04	1.43E-03	1.21E-03	3.46E-05	7.47E-04	7.47E-04	4.27E-03	1.06E-04	1.43E-03	1.21E-03	3.46E-05	2.99E-05	7.47E-04	3.56E-03
1.08E-04	1.46E-03	1.23E-03	3.52E-05	7.74E-04	7.74E-04	4.37E-03	1.08E-04	1.46E-03	1.23E-03	3.52E-05	3.02E-05	7.74E-04	3.63E-03
1.11E-04	1.48E-03	1.23E-03	3.56E-05	8.04E-04	8.04E-04	4.47E-03	1.11E-04	1.48E-03	1.23E-03	3.56E-05	2.97E-05	8.04E-04	3.69E-03
1.13E-04	1.52E-03	1.23E-03	3.59E-05	8.36E-04	8.36E-04	4.57E-03	1.13E-04	1.52E-03	1.23E-03	3.59E-05	2.96E-05	8.36E-04	3.76E-03

1.15E-04	1.57E-03	1.22E-03	3.60E-05	8.63E-04	8.63E-04	4.66E-03	1.15E-04	1.57E-03	1.22E-03	3.60E-05	3.01E-05	8.63E-04	3.83E-03
1.19E-04	1.61E-03	1.20E-03	3.57E-05	8.86E-04	8.86E-04	4.74E-03	1.19E-04	1.61E-03	1.20E-03	3.57E-05	2.99E-05	8.86E-04	3.89E-03
1.22E-04	1.67E-03	1.19E-03	3.56E-05	9.21E-04	9.21E-04	4.86E-03	1.22E-04	1.67E-03	1.19E-03	3.56E-05	2.84E-05	9.21E-04	3.97E-03
1.25E-04	1.74E-03	1.19E-03	3.53E-05	9.46E-04	9.46E-04	4.98E-03	1.25E-04	1.74E-03	1.19E-03	3.53E-05	2.72E-05	9.46E-04	4.06E-03
1.28E-04	1.82E-03	1.18E-03	3.49E-05	9.33E-04	9.33E-04	5.03E-03	1.28E-04	1.82E-03	1.18E-03	3.49E-05	2.64E-05	9.33E-04	4.12E-03
1.31E-04	1.88E-03	1.17E-03	3.48E-05	9.35E-04	9.35E-04	5.09E-03	1.31E-04	1.88E-03	1.17E-03	3.48E-05	2.60E-05	9.35E-04	4.18E-03
1.35E-04	1.95E-03	1.16E-03	3.46E-05	9.25E-04	9.25E-04	5.13E-03	1.35E-04	1.95E-03	1.16E-03	3.46E-05	2.67E-05	9.25E-04	4.23E-03
1.39E-04	2.03E-03	1.15E-03	3.43E-05	9.26E-04	9.26E-04	5.21E-03	1.39E-04	2.03E-03	1.15E-03	3.43E-05	2.79E-05	9.26E-04	4.31E-03
1.43E-04	2.09E-03	1.15E-03	3.42E-05	9.16E-04	9.16E-04	5.25E-03	1.43E-04	2.09E-03	1.15E-03	3.42E-05	2.85E-05	9.16E-04	4.37E-03
1.47E-04	2.14E-03	1.17E-03	3.41E-05	9.01E-04	9.01E-04	5.29E-03	1.47E-04	2.14E-03	1.17E-03	3.41E-05	2.81E-05	9.01E-04	4.42E-03
1.50E-04	2.15E-03	1.17E-03	3.37E-05	9.07E-04	9.07E-04	5.33E-03	1.50E-04	2.15E-03	1.17E-03	3.37E-05	2.69E-05	9.07E-04	4.45E-03
1.54E-04	2.14E-03	1.18E-03	3.35E-05	9.22E-04	9.22E-04	5.35E-03	1.54E-04	2.14E-03	1.18E-03	3.35E-05	2.67E-05	9.22E-04	4.45E-03
1.59E-04	2.14E-03	1.19E-03	3.34E-05	9.27E-04	9.27E-04	5.37E-03	1.59E-04	2.14E-03	1.19E-03	3.34E-05	2.77E-05	9.27E-04	4.47E-03
1.63E-04	2.15E-03	1.21E-03	3.38E-05	9.41E-04	9.41E-04	5.43E-03	1.63E-04	2.15E-03	1.21E-03	3.38E-05	2.90E-05	9.41E-04	4.52E-03
1.55E-04	2.15E-03	1.26E-03	3.54E-05	9.62E-04	9.62E-04	5.52E-03	1.55E-04	2.15E-03	1.26E-03	3.54E-05	3.01E-05	9.62E-04	4.59E-03
9.39E-05	1.00E-03	7.78E-04	2.56E-05	4.01E-04	4.01E-04	2.70E-03	9.39E-05	1.00E-03	7.78E-04	2.56E-05	2.25E-05	4.01E-04	2.32E-03
1.18E-04	1.65E-03	1.19E-03	3.51E-05	7.82E-04	7.82E-04	4.55E-03	1.18E-04	1.65E-03	1.19E-03	3.51E-05	3.13E-05	7.82E-04	3.80E-03
9.75E-05	1.13E-03	9.02E-04	2.99E-05	5.61E-04	5.61E-04	3.29E-03	9.75E-05	1.13E-03	9.02E-04	2.99E-05	2.80E-05	5.61E-04	2.75E-03
1.11E-04	1.53E-03	1.18E-03	3.38E-05	7.66E-04	7.66E-04	4.39E-03	1.11E-04	1.53E-03	1.18E-03	3.38E-05	2.92E-05	7.66E-04	3.65E-03
1.27E-04	1.86E-03	1.33E-03	3.57E-05	8.49E-04	8.49E-04	5.06E-03	1.27E-04	1.86E-03	1.33E-03	3.57E-05	3.10E-05	8.49E-04	4.24E-03
1.40E-04	2.02E-03	1.35E-03	3.71E-05	8.88E-04	8.88E-04	5.32E-03	1.40E-04	2.02E-03	1.35E-03	3.71E-05	3.31E-05	8.88E-04	4.46E-03
1.52E-04	2.14E-03	1.29E-03	3.70E-05	9.21E-04	9.21E-04	5.46E-03	1.52E-04	2.14E-03	1.29E-03	3.70E-05	3.36E-05	9.21E-04	4.57E-03
1.53E-04	2.15E-03	1.23E-03	3.57E-05	9.43E-04	9.43E-04	5.45E-03	1.53E-04	2.15E-03	1.23E-03	3.57E-05	3.26E-05	9.43E-04	4.54E-03
1.53E-04	2.13E-03	1.19E-03	3.42E-05	9.61E-04	9.61E-04	5.43E-03	1.53E-04	2.13E-03	1.19E-03	3.42E-05	3.09E-05	9.61E-04	4.50E-03
1.61E-04	2.04E-03	1.17E-03	3.30E-05	9.76E-04	9.76E-04	5.36E-03	1.61E-04	2.04E-03	1.17E-03	3.30E-05	2.94E-05	9.76E-04	4.41E-03
1.65E-04	1.97E-03	1.17E-03	3.22E-05	9.86E-04	9.86E-04	5.30E-03	1.65E-04	1.97E-03	1.17E-03	3.22E-05	2.88E-05	9.86E-04	4.35E-03
1.80E-04	1.93E-03	1.16E-03	3.16E-05	9.95E-04	9.95E-04	5.30E-03	1.80E-04	1.93E-03	1.16E-03	3.16E-05	2.85E-05	9.95E-04	4.33E-03
1.83E-04	1.95E-03	1.18E-03	3.17E-05	9.99E-04	9.99E-04	5.34E-03	1.83E-04	1.95E-03	1.18E-03	3.17E-05	2.88E-05	9.99E-04	4.37E-03
1.94E-04	1.96E-03	1.19E-03	3.12E-05	9.83E-04	9.83E-04	5.34E-03	1.94E-04	1.96E-03	1.19E-03	3.12E-05	2.83E-05	9.83E-04	4.38E-03
6.91E-05	9.05E-04	5.79E-04	1.65E-05	3.05E-04	3.05E-04	2.18E-03	6.91E-05	9.05E-04	5.79E-04	1.65E-05	1.48E-05	3.05E-04	1.89E-03
7.03E-05	9.27E-04	5.93E-04	1.69E-05	3.15E-04	3.15E-04	2.24E-03	7.03E-05	9.27E-04	5.93E-04	1.69E-05	1.48E-05	3.15E-04	1.94E-03
7.11E-05	9.51E-04	6.07E-04	1.73E-05	3.26E-04	3.26E-04	2.30E-03	7.11E-05	9.51E-04	6.07E-04	1.73E-05	1.49E-05	3.26E-04	1.99E-03
7.27E-05	9.73E-04	6.21E-04	1.77E-05	3.39E-04	3.39E-04	2.36E-03	7.27E-05	9.73E-04	6.21E-04	1.77E-05	1.50E-05	3.39E-04	2.04E-03
7.35E-05	9.93E-04	6.35E-04	1.81E-05	3.56E-04	3.56E-04	2.43E-03	7.35E-05	9.93E-04	6.35E-04	1.81E-05	1.53E-05	3.56E-04	2.09E-03
7.47E-05	1.01E-03	6.51E-04	1.85E-05	3.74E-04	3.74E-04	2.50E-03	7.47E-05	1.01E-03	6.51E-04	1.85E-05	1.56E-05	3.74E-04	2.14E-03
7.55E-05	1.03E-03	6.69E-04	1.90E-05	3.91E-04	3.91E-04	2.58E-03	7.55E-05	1.03E-03	6.69E-04	1.90E-05	1.61E-05	3.91E-04	2.20E-03
7.67E-05	1.05E-03	6.87E-04	1.95E-05	4.08E-04	4.08E-04	2.65E-03	7.67E-05	1.05E-03	6.87E-04	1.95E-05	1.66E-05	4.08E-04	2.25E-03
7.79E-05	1.06E-03	7.07E-04	2.02E-05	4.23E-04	4.23E-04	2.72E-03	7.79E-05	1.06E-03	7.07E-04	2.02E-05	1.71E-05	4.23E-04	2.31E-03
7.95E-05	1.08E-03	7.29E-04	2.09E-05	4.37E-04	4.37E-04	2.78E-03	7.95E-05	1.08E-03	7.29E-04	2.09E-05	1.77E-05	4.37E-04	2.37E-03
8.07E-05	1.10E-03	7.55E-04	2.17E-05	4.52E-04	4.52E-04	2.86E-03	8.07E-05	1.10E-03	7.55E-04	2.17E-05	1.85E-05	4.52E-04	2.43E-03
8.19E-05	1.12E-03	7.86E-04	2.27E-05	4.70E-04	4.70E-04	2.96E-03	8.19E-05	1.12E-03	7.86E-04	2.27E-05	1.94E-05	4.70E-04	2.50E-03
8.35E-05	1.15E-03	8.18E-04	2.34E-05	4.90E-04	4.90E-04	3.05E-03	8.35E-05	1.15E-03	8.18E-04	2.34E-05	2.01E-05	4.90E-04	2.58E-03
8.47E-05	1.17E-03	8.52E-04	2.43E-05	5.12E-04	5.12E-04	3.15E-03	8.47E-05	1.17E-03	8.52E-04	2.43E-05	2.08E-05	5.12E-04	2.66E-03
8.59E-05	1.19E-03	8.83E-04	2.52E-05	5.34E-04	5.34E-04	3.25E-03	8.59E-05	1.19E-03	8.83E-04	2.52E-05	2.16E-05	5.34E-04	2.74E-03
8.75E-05	1.21E-03	9.11E-04	2.60E-05	5.53E-04	5.53E-04	3.34E-03	8.75E-05	1.21E-03	9.11E-04	2.60E-05	2.27E-05	5.53E-04	2.81E-03
8.91E-05	1.23E-03	9.38E-04	2.70E-05	5.69E-04	5.69E-04	3.42E-03	8.91E-05	1.23E-03	9.38E-04	2.70E-05	2.39E-05	5.69E-04	2.88E-03
9.07E-05	1.25E-03	9.67E-04	2.78E-05	5.80E-04	5.80E-04	3.49E-03	9.07E-05	1.25E-03	9.67E-04	2.78E-05	2.51E-05	5.80E-04	2.94E-03
9.23E-05	1.26E-03	1.00E-03	2.87E-05	5.92E-04	5.92E-04	3.57E-03	9.23E-05	1.26E-03	1.00E-03	2.87E-05	2.60E-05	5.92E-04	3.00E-03
9.39E-05	1.27E-03	1.03E-03	2.93E-05	6.06E-04	6.06E-04	3.64E-03	9.39E-05	1.27E-03	1.03E-03	2.93E-05	2.61E-05	6.06E-04	3.06E-03
9.67E-05	1.29E-03	1.05E-03	3.01E-05	6.27E-04	6.27E-04	3.73E-03	9.67E-05	1.29E-03	1.05E-03	3.01E-05	2.62E-05	6.27E-04	3.13E-03
9.91E-05	1.31E-03	1.08E-03	3.08E-05	6.52E-04	6.52E-04	3.82E-03	9.91E-05	1.31E-03	1.08E-03	3.08E-05	2.65E-05	6.52E-04	3.19E-03
1.01E-04	1.33E-03	1.10E-03	3.15E-05	6.74E-04	6.74E-04	3.90E-03	1.01E-04	1.33E-03	1.10E-03	3.15E-05	2.71E-05	6.74E-04	3.26E-03
1.03E-04	1.34E-03	1.11E-03	3.20E-05	7.00E-04	7.00E-04	3.98E-03	1.03E-04	1.34E-03	1.11E-03	3.20E-05	2.71E-05	7.00E-04	3.31E-03
1.05E-04	1.36E-03	1.11E-03	3.24E-05	7.31E-04	7.31E-04	4.07E-03	1.05E-04	1.36E-03	1.11E-03	3.24E-05	2.68E-05	7.31E-04	3.37E-03

1.07E-04	1.39E-03	1.10E-03	3.24E-05	7.53E-04	7.53E-04	4.14E-03	1.07E-04	1.39E-03	1.10E-03	3.24E-05	2.68E-05	7.53E-04	3.41E-03
1.09E-04	1.44E-03	1.09E-03	3.25E-05	7.67E-04	7.67E-04	4.20E-03	1.09E-04	1.44E-03	1.09E-03	3.25E-05	2.74E-05	7.67E-04	3.46E-03
1.11E-04	1.49E-03	1.08E-03	3.24E-05	7.86E-04	7.86E-04	4.28E-03	1.11E-04	1.49E-03	1.08E-03	3.24E-05	2.70E-05	7.86E-04	3.52E-03
1.14E-04	1.55E-03	1.07E-03	3.23E-05	8.13E-04	8.13E-04	4.40E-03	1.14E-04	1.55E-03	1.07E-03	3.23E-05	2.57E-05	8.13E-04	3.61E-03
1.16E-04	1.61E-03	1.07E-03	3.19E-05	8.16E-04	8.16E-04	4.46E-03	1.16E-04	1.61E-03	1.07E-03	3.19E-05	2.47E-05	8.16E-04	3.67E-03
1.17E-04	1.66E-03	1.06E-03	3.16E-05	8.09E-04	8.09E-04	4.49E-03	1.17E-04	1.66E-03	1.06E-03	3.16E-05	2.39E-05	8.09E-04	3.71E-03
1.19E-04	1.71E-03	1.05E-03	3.14E-05	8.14E-04	8.14E-04	4.54E-03	1.19E-04	1.71E-03	1.05E-03	3.14E-05	2.34E-05	8.14E-04	3.75E-03
1.22E-04	1.77E-03	1.04E-03	3.12E-05	8.00E-04	8.00E-04	4.56E-03	1.22E-04	1.77E-03	1.04E-03	3.12E-05	2.39E-05	8.00E-04	3.79E-03
1.25E-04	1.82E-03	1.04E-03	3.11E-05	7.97E-04	7.97E-04	4.61E-03	1.25E-04	1.82E-03	1.04E-03	3.11E-05	2.52E-05	7.97E-04	3.84E-03
1.28E-04	1.86E-03	1.04E-03	3.11E-05	7.89E-04	7.89E-04	4.64E-03	1.28E-04	1.86E-03	1.04E-03	3.11E-05	2.59E-05	7.89E-04	3.88E-03
1.31E-04	1.90E-03	1.05E-03	3.10E-05	7.80E-04	7.80E-04	4.67E-03	1.31E-04	1.90E-03	1.05E-03	3.10E-05	2.58E-05	7.80E-04	3.92E-03
1.33E-04	1.90E-03	1.06E-03	3.08E-05	7.85E-04	7.85E-04	4.69E-03	1.33E-04	1.90E-03	1.06E-03	3.08E-05	2.49E-05	7.85E-04	3.93E-03
1.36E-04	1.89E-03	1.06E-03	3.04E-05	7.94E-04	7.94E-04	4.70E-03	1.36E-04	1.89E-03	1.06E-03	3.04E-05	2.42E-05	7.94E-04	3.93E-03
1.39E-04	1.89E-03	1.07E-03	3.03E-05	7.99E-04	7.99E-04	4.72E-03	1.39E-04	1.89E-03	1.07E-03	3.03E-05	2.46E-05	7.99E-04	3.95E-03
1.20E-04	1.79E-03	1.10E-03	3.19E-05	7.54E-04	7.54E-04	4.55E-03	1.20E-04	1.79E-03	1.10E-03	3.19E-05	2.72E-05	7.54E-04	3.83E-03
1.37E-04	1.89E-03	1.13E-03	3.20E-05	8.20E-04	8.20E-04	4.82E-03	1.37E-04	1.89E-03	1.13E-03	3.20E-05	2.76E-05	8.20E-04	4.03E-03
1.19E-04	1.70E-03	1.13E-03	3.26E-05	7.53E-04	7.53E-04	4.48E-03	1.19E-04	1.70E-03	1.13E-03	3.26E-05	2.76E-05	7.53E-04	3.76E-03
7.47E-05	7.08E-04	4.59E-04	1.59E-05	2.63E-04	2.63E-04	1.78E-03	7.47E-05	7.08E-04	4.59E-04	1.59E-05	1.40E-05	2.63E-04	1.54E-03
8.07E-05	8.59E-04	6.20E-04	2.18E-05	3.61E-04	3.61E-04	2.30E-03	8.07E-05	8.59E-04	6.20E-04	2.18E-05	2.02E-05	3.61E-04	1.96E-03
7.83E-05	8.39E-04	5.93E-04	2.07E-05	3.73E-04	3.73E-04	2.28E-03	7.83E-05	8.39E-04	5.93E-04	2.07E-05	1.93E-05	3.73E-04	1.92E-03
1.01E-04	1.47E-03	1.09E-03	3.09E-05	7.08E-04	7.08E-04	4.11E-03	1.01E-04	1.47E-03	1.09E-03	3.09E-05	2.65E-05	7.08E-04	3.42E-03
1.15E-04	1.73E-03	1.21E-03	3.25E-05	7.72E-04	7.72E-04	4.63E-03	1.15E-04	1.73E-03	1.21E-03	3.25E-05	2.84E-05	7.72E-04	3.88E-03
1.20E-04	1.80E-03	1.22E-03	3.35E-05	7.76E-04	7.76E-04	4.72E-03	1.20E-04	1.80E-03	1.22E-03	3.35E-05	3.00E-05	7.76E-04	3.97E-03
1.25E-04	1.87E-03	1.17E-03	3.35E-05	7.91E-04	7.91E-04	4.79E-03	1.25E-04	1.87E-03	1.17E-03	3.35E-05	3.06E-05	7.91E-04	4.02E-03
1.34E-04	1.88E-03	1.12E-03	3.23E-05	8.15E-04	8.15E-04	4.80E-03	1.34E-04	1.88E-03	1.12E-03	3.23E-05	2.97E-05	8.15E-04	4.01E-03
1.27E-04	1.88E-03	1.08E-03	3.12E-05	8.19E-04	8.19E-04	4.75E-03	1.27E-04	1.88E-03	1.08E-03	3.12E-05	2.83E-05	8.19E-04	3.96E-03
1.29E-04	1.80E-03	1.06E-03	3.01E-05	8.33E-04	8.33E-04	4.69E-03	1.29E-04	1.80E-03	1.06E-03	3.01E-05	2.70E-05	8.33E-04	3.88E-03
1.33E-04	1.73E-03	1.05E-03	2.93E-05	8.47E-04	8.47E-04	4.64E-03	1.33E-04	1.73E-03	1.05E-03	2.93E-05	2.62E-05	8.47E-04	3.82E-03
1.38E-04	1.70E-03	1.05E-03	2.89E-05	8.58E-04	8.58E-04	4.64E-03	1.38E-04	1.70E-03	1.05E-03	2.89E-05	2.61E-05	8.58E-04	3.81E-03
1.49E-04	1.69E-03	1.05E-03	2.85E-05	8.68E-04	8.68E-04	4.66E-03	1.49E-04	1.69E-03	1.05E-03	2.85E-05	2.60E-05	8.68E-04	3.81E-03
6.71E-05	8.80E-04	5.49E-04	1.57E-05	2.96E-04	2.96E-04	2.10E-03	6.71E-05	8.80E-04	5.49E-04	1.57E-05	1.35E-05	2.96E-04	1.82E-03
6.79E-05	9.01E-04	5.60E-04	1.60E-05	3.07E-04	3.07E-04	2.16E-03	6.79E-05	9.01E-04	5.60E-04	1.60E-05	1.36E-05	3.07E-04	1.87E-03
6.87E-05	9.20E-04	5.71E-04	1.64E-05	3.21E-04	3.21E-04	2.22E-03	6.87E-05	9.20E-04	5.71E-04	1.64E-05	1.38E-05	3.21E-04	1.91E-03
7.03E-05	9.41E-04	5.84E-04	1.67E-05	3.34E-04	3.34E-04	2.28E-03	7.03E-05	9.41E-04	5.84E-04	1.67E-05	1.42E-05	3.34E-04	1.96E-03
7.11E-05	9.57E-04	5.96E-04	1.70E-05	3.49E-04	3.49E-04	2.34E-03	7.11E-05	9.57E-04	5.96E-04	1.70E-05	1.45E-05	3.49E-04	2.00E-03
7.19E-05	9.73E-04	6.10E-04	1.74E-05	3.63E-04	3.63E-04	2.40E-03	7.19E-05	9.73E-04	6.10E-04	1.74E-05	1.49E-05	3.63E-04	2.05E-03
7.31E-05	9.90E-04	6.26E-04	1.79E-05	3.75E-04	3.75E-04	2.46E-03	7.31E-05	9.90E-04	6.26E-04	1.79E-05	1.53E-05	3.75E-04	2.10E-03
7.39E-05	1.01E-03	6.43E-04	1.85E-05	3.87E-04	3.87E-04	2.52E-03	7.39E-05	1.01E-03	6.43E-04	1.85E-05	1.58E-05	3.87E-04	2.15E-03
7.55E-05	1.02E-03	6.62E-04	1.91E-05	3.98E-04	3.98E-04	2.58E-03	7.55E-05	1.02E-03	6.62E-04	1.91E-05	1.62E-05	3.98E-04	2.19E-03
7.63E-05	1.04E-03	6.85E-04	1.99E-05	4.12E-04	4.12E-04	2.64E-03	7.63E-05	1.04E-03	6.85E-04	1.99E-05	1.68E-05	4.12E-04	2.25E-03
7.79E-05	1.07E-03	7.18E-04	2.09E-05	4.23E-04	4.23E-04	2.73E-03	7.79E-05	1.07E-03	7.18E-04	2.09E-05	1.78E-05	4.23E-04	2.32E-03
7.63E-05	1.06E-03	7.31E-04	2.16E-05	4.07E-04	4.07E-04	2.71E-03	7.63E-05	1.06E-03	7.31E-04	2.16E-05	1.87E-05	4.07E-04	2.32E-03
8.03E-05	1.10E-03	7.78E-04	2.23E-05	4.59E-04	4.59E-04	2.90E-03	8.03E-05	1.10E-03	7.78E-04	2.23E-05	1.91E-05	4.59E-04	2.46E-03
8.19E-05	1.11E-03	8.02E-04	2.29E-05	4.79E-04	4.79E-04	2.98E-03	8.19E-05	1.11E-03	8.02E-04	2.29E-05	1.96E-05	4.79E-04	2.52E-03
8.27E-05	1.13E-03	8.29E-04	2.37E-05	4.95E-04	4.95E-04	3.05E-03	8.27E-05	1.13E-03	8.29E-04	2.37E-05	2.06E-05	4.95E-04	2.58E-03
8.43E-05	1.14E-03	8.49E-04	2.44E-05	5.06E-04	5.06E-04	3.11E-03	8.43E-05	1.14E-03	8.49E-04	2.44E-05	2.16E-05	5.06E-04	2.63E-03
8.55E-05	1.16E-03	8.72E-04	2.52E-05	5.14E-04	5.14E-04	3.17E-03	8.55E-05	1.16E-03	8.72E-04	2.52E-05	2.26E-05	5.14E-04	2.68E-03
8.67E-05	1.17E-03	9.00E-04	2.60E-05	5.23E-04	5.23E-04	3.23E-03	8.67E-05	1.17E-03	9.00E-04	2.60E-05	2.34E-05	5.23E-04	2.73E-03
8.83E-05	1.18E-03	9.24E-04	2.65E-05	5.36E-04	5.36E-04	3.29E-03	8.83E-05	1.18E-03	9.24E-04	2.65E-05	2.37E-05	5.36E-04	2.78E-03
8.99E-05	1.19E-03	9.48E-04	2.71E-05	5.54E-04	5.54E-04	3.36E-03	8.99E-05	1.19E-03	9.48E-04	2.71E-05	2.38E-05	5.54E-04	2.83E-03
9.19E-05	1.21E-03	9.69E-04	2.77E-05	5.75E-04	5.75E-04	3.44E-03	9.19E-05	1.21E-03	9.69E-04	2.77E-05	2.39E-05	5.75E-04	2.89E-03
9.35E-05	1.21E-03	9.86E-04	2.84E-05	5.94E-04	5.94E-04	3.51E-03	9.35E-05	1.21E-03	9.86E-04	2.84E-05	2.43E-05	5.94E-04	2.94E-03
9.47E-05	1.22E-03	1.00E-03	2.89E-05	6.13E-04	6.13E-04	3.57E-03	9.47E-05	1.22E-03	1.00E-03	2.89E-05	2.46E-05	6.13E-04	2.98E-03
9.63E-05	1.23E-03	1.01E-03	2.93E-05	6.40E-04	6.40E-04	3.65E-03	9.63E-05	1.23E-03	1.01E-03	2.93E-05	2.45E-05	6.40E-04	3.03E-03

9.79E-05	1.26E-03	1.01E-03	2.95E-05	6.68E-04	6.68E-04	3.73E-03	9.79E-05	1.26E-03	1.01E-03	2.95E-05	2.43E-05	6.68E-04	3.08E-03
9.95E-05	1.29E-03	9.98E-04	2.96E-05	6.79E-04	6.79E-04	3.78E-03	9.95E-05	1.29E-03	9.98E-04	2.96E-05	2.46E-05	6.79E-04	3.12E-03
1.01E-04	1.34E-03	9.88E-04	2.97E-05	6.87E-04	6.87E-04	3.83E-03	1.01E-04	1.34E-03	9.88E-04	2.97E-05	2.50E-05	6.87E-04	3.17E-03
1.03E-04	1.39E-03	9.78E-04	2.97E-05	7.04E-04	7.04E-04	3.91E-03	1.03E-04	1.39E-03	9.78E-04	2.97E-05	2.45E-05	7.04E-04	3.23E-03
1.05E-04	1.45E-03	9.71E-04	2.94E-05	7.18E-04	7.18E-04	3.99E-03	1.05E-04	1.45E-03	9.71E-04	2.94E-05	2.35E-05	7.18E-04	3.29E-03
1.07E-04	1.49E-03	9.65E-04	2.90E-05	7.10E-04	7.10E-04	4.01E-03	1.07E-04	1.49E-03	9.65E-04	2.90E-05	2.26E-05	7.10E-04	3.32E-03
1.08E-04	1.53E-03	9.61E-04	2.88E-05	7.14E-04	7.14E-04	4.06E-03	1.08E-04	1.53E-03	9.61E-04	2.88E-05	2.18E-05	7.14E-04	3.36E-03
1.09E-04	1.57E-03	9.53E-04	2.87E-05	7.16E-04	7.16E-04	4.09E-03	1.09E-04	1.57E-03	9.53E-04	2.87E-05	2.13E-05	7.16E-04	3.40E-03
1.11E-04	1.61E-03	9.49E-04	2.85E-05	7.03E-04	7.03E-04	4.11E-03	1.11E-04	1.61E-03	9.49E-04	2.85E-05	2.17E-05	7.03E-04	3.43E-03
1.13E-04	1.65E-03	9.46E-04	2.83E-05	6.98E-04	6.98E-04	4.13E-03	1.13E-04	1.65E-03	9.46E-04	2.83E-05	2.28E-05	6.98E-04	3.46E-03
1.15E-04	1.68E-03	9.48E-04	2.84E-05	6.89E-04	6.89E-04	4.15E-03	1.15E-04	1.68E-03	9.48E-04	2.84E-05	2.37E-05	6.89E-04	3.48E-03
1.18E-04	1.70E-03	9.54E-04	2.85E-05	6.83E-04	6.83E-04	4.17E-03	1.18E-04	1.70E-03	9.54E-04	2.85E-05	2.38E-05	6.83E-04	3.51E-03
1.21E-04	1.70E-03	9.61E-04	2.84E-05	6.91E-04	6.91E-04	4.19E-03	1.21E-04	1.70E-03	9.61E-04	2.84E-05	2.32E-05	6.91E-04	3.53E-03
1.23E-04	1.70E-03	9.70E-04	2.83E-05	7.01E-04	7.01E-04	4.23E-03	1.23E-04	1.70E-03	9.70E-04	2.83E-05	2.25E-05	7.01E-04	3.55E-03
1.11E-04	1.65E-03	9.94E-04	2.90E-05	6.69E-04	6.69E-04	4.12E-03	1.11E-04	1.65E-03	9.94E-04	2.90E-05	2.31E-05	6.69E-04	3.48E-03
1.07E-04	1.57E-03	9.89E-04	2.89E-05	6.45E-04	6.45E-04	3.99E-03	1.07E-04	1.57E-03	9.89E-04	2.89E-05	2.41E-05	6.45E-04	3.37E-03
1.05E-04	1.53E-03	9.92E-04	2.90E-05	6.32E-04	6.32E-04	3.92E-03	1.05E-04	1.53E-03	9.92E-04	2.90E-05	2.54E-05	6.32E-04	3.31E-03
1.06E-04	1.51E-03	1.01E-03	2.94E-05	6.49E-04	6.49E-04	3.95E-03	1.06E-04	1.51E-03	1.01E-03	2.94E-05	2.55E-05	6.49E-04	3.33E-03
9.15E-05	1.21E-03	9.12E-04	2.74E-05	4.89E-04	4.89E-04	3.21E-03	9.15E-05	1.21E-03	9.12E-04	2.74E-05	2.31E-05	4.89E-04	2.75E-03
7.87E-05	9.37E-04	7.22E-04	2.33E-05	3.67E-04	3.67E-04	2.50E-03	7.87E-05	9.37E-04	7.22E-04	2.33E-05	2.09E-05	3.67E-04	2.15E-03
7.19E-05	7.87E-04	5.46E-04	1.93E-05	3.16E-04	3.16E-04	2.06E-03	7.19E-05	7.87E-04	5.46E-04	1.93E-05	1.78E-05	3.16E-04	1.76E-03
8.03E-05	1.06E-03	8.05E-04	2.61E-05	5.06E-04	5.06E-04	2.99E-03	8.03E-05	1.06E-03	8.05E-04	2.61E-05	2.42E-05	5.06E-04	2.51E-03
9.07E-05	1.39E-03	1.00E-03	2.83E-05	6.52E-04	6.52E-04	3.82E-03	9.07E-05	1.39E-03	1.00E-03	2.83E-05	2.42E-05	6.52E-04	3.19E-03
9.83E-05	1.53E-03	1.09E-03	2.94E-05	6.81E-04	6.81E-04	4.12E-03	9.83E-05	1.53E-03	1.09E-03	2.94E-05	2.58E-05	6.81E-04	3.46E-03
1.02E-04	1.60E-03	1.11E-03	3.05E-05	6.80E-04	6.80E-04	4.20E-03	1.02E-04	1.60E-03	1.11E-03	3.05E-05	2.74E-05	6.80E-04	3.55E-03
1.11E-04	1.67E-03	1.07E-03	3.05E-05	6.97E-04	6.97E-04	4.28E-03	1.11E-04	1.67E-03	1.07E-03	3.05E-05	2.79E-05	6.97E-04	3.61E-03
1.04E-04	1.66E-03	1.02E-03	2.99E-05	6.93E-04	6.93E-04	4.20E-03	1.04E-04	1.66E-03	1.02E-03	2.99E-05	2.74E-05	6.93E-04	3.53E-03
1.01E-04	1.66E-03	9.69E-04	2.87E-05	6.95E-04	6.95E-04	4.14E-03	1.01E-04	1.66E-03	9.69E-04	2.87E-05	2.62E-05	6.95E-04	3.48E-03
1.10E-04	1.61E-03	9.66E-04	2.76E-05	7.19E-04	7.19E-04	4.15E-03	1.10E-04	1.61E-03	9.66E-04	2.76E-05	2.49E-05	7.19E-04	3.46E-03
1.12E-04	1.55E-03	9.58E-04	2.69E-05	7.33E-04	7.33E-04	4.11E-03	1.12E-04	1.55E-03	9.58E-04	2.69E-05	2.41E-05	7.33E-04	3.40E-03
1.09E-04	1.52E-03	9.59E-04	2.66E-05	7.40E-04	7.40E-04	4.10E-03	1.09E-04	1.52E-03	9.59E-04	2.66E-05	2.39E-05	7.40E-04	3.38E-03
6.47E-05	8.54E-04	5.18E-04	1.49E-05	2.91E-04	2.91E-04	2.03E-03	6.47E-05	8.54E-04	5.18E-04	1.49E-05	1.25E-05	2.91E-04	1.75E-03
6.63E-05	8.72E-04	5.26E-04	1.51E-05	3.03E-04	3.03E-04	2.09E-03	6.63E-05	8.72E-04	5.26E-04	1.51E-05	1.28E-05	3.03E-04	1.80E-03
6.71E-05	8.91E-04	5.38E-04	1.55E-05	3.13E-04	3.13E-04	2.14E-03	6.71E-05	8.91E-04	5.38E-04	1.55E-05	1.32E-05	3.13E-04	1.84E-03
6.79E-05	9.05E-04	5.47E-04	1.57E-05	3.25E-04	3.25E-04	2.19E-03	6.79E-05	9.05E-04	5.47E-04	1.57E-05	1.35E-05	3.25E-04	1.87E-03
6.87E-05	9.19E-04	5.58E-04	1.61E-05	3.36E-04	3.36E-04	2.23E-03	6.87E-05	9.19E-04	5.58E-04	1.61E-05	1.38E-05	3.36E-04	1.91E-03
6.99E-05	9.37E-04	5.73E-04	1.65E-05	3.46E-04	3.46E-04	2.29E-03	6.99E-05	9.37E-04	5.73E-04	1.65E-05	1.42E-05	3.46E-04	1.96E-03
7.11E-05	9.54E-04	5.89E-04	1.70E-05	3.55E-04	3.55E-04	2.34E-03	7.11E-05	9.54E-04	5.89E-04	1.70E-05	1.45E-05	3.55E-04	2.00E-03
7.23E-05	9.72E-04	6.08E-04	1.77E-05	3.65E-04	3.65E-04	2.40E-03	7.23E-05	9.72E-04	6.08E-04	1.77E-05	1.50E-05	3.65E-04	2.05E-03
7.31E-05	9.86E-04	6.28E-04	1.83E-05	3.77E-04	3.77E-04	2.46E-03	7.31E-05	9.86E-04	6.28E-04	1.83E-05	1.55E-05	3.77E-04	2.10E-03
7.47E-05	1.00E-03	6.52E-04	1.89E-05	3.90E-04	3.90E-04	2.53E-03	7.47E-05	1.00E-03	6.52E-04	1.89E-05	1.61E-05	3.90E-04	2.15E-03
7.51E-05	1.02E-03	6.83E-04	1.99E-05	3.95E-04	3.95E-04	2.59E-03	7.51E-05	1.02E-03	6.83E-04	1.99E-05	1.71E-05	3.95E-04	2.21E-03
7.39E-05	1.01E-03	6.94E-04	2.05E-05	3.84E-04	3.84E-04	2.57E-03	7.39E-05	1.01E-03	6.94E-04	2.05E-05	1.77E-05	3.84E-04	2.20E-03
7.79E-05	1.05E-03	7.39E-04	2.13E-05	4.29E-04	4.29E-04	2.74E-03	7.79E-05	1.05E-03	7.39E-04	2.13E-05	1.82E-05	4.29E-04	2.33E-03
7.91E-05	1.05E-03	7.57E-04	2.17E-05	4.44E-04	4.44E-04	2.80E-03	7.91E-05	1.05E-03	7.57E-04	2.17E-05	1.87E-05	4.44E-04	2.38E-03
7.99E-05	1.06E-03	7.77E-04	2.24E-05	4.53E-04	4.53E-04	2.85E-03	7.99E-05	1.06E-03	7.77E-04	2.24E-05	1.96E-05	4.53E-04	2.42E-03
8.07E-05	1.08E-03	7.95E-04	2.31E-05	4.60E-04	4.60E-04	2.89E-03	8.07E-05	1.08E-03	7.95E-04	2.31E-05	2.05E-05	4.60E-04	2.46E-03
8.15E-05	1.09E-03	8.15E-04	2.37E-05	4.68E-04	4.68E-04	2.94E-03	8.15E-05	1.09E-03	8.15E-04	2.37E-05	2.12E-05	4.68E-04	2.50E-03
8.23E-05	1.10E-03	8.37E-04	2.42E-05	4.80E-04	4.80E-04	3.00E-03	8.23E-05	1.10E-03	8.37E-04	2.42E-05	2.17E-05	4.80E-04	2.54E-03
8.35E-05	1.10E-03	8.58E-04	2.47E-05	4.96E-04	4.96E-04	3.06E-03	8.35E-05	1.10E-03	8.58E-04	2.47E-05	2.19E-05	4.96E-04	2.59E-03
8.47E-05	1.11E-03	8.79E-04	2.52E-05	5.13E-04	5.13E-04	3.13E-03	8.47E-05	1.11E-03	8.79E-04	2.52E-05	2.19E-05	5.13E-04	2.64E-03
8.67E-05	1.12E-03	8.93E-04	2.57E-05	5.27E-04	5.27E-04	3.18E-03	8.67E-05	1.12E-03	8.93E-04	2.57E-05	2.20E-05	5.27E-04	2.67E-03
8.75E-05	1.12E-03	9.06E-04	2.62E-05	5.43E-04	5.43E-04	3.23E-03	8.75E-05	1.12E-03	9.06E-04	2.62E-05	2.22E-05	5.43E-04	2.71E-03
8.87E-05	1.13E-03	9.15E-04	2.66E-05	5.65E-04	5.65E-04	3.29E-03	8.87E-05	1.13E-03	9.15E-04	2.66E-05	2.24E-05	5.65E-04	2.75E-03

8.99E-05	1.15E-03	9.20E-04	2.68E-05	5.92E-04	5.92E-04	3.37E-03	8.99E-05	1.15E-03	9.20E-04	2.68E-05	2.23E-05	5.92E-04	2.80E-03
9.15E-05	1.18E-03	9.19E-04	2.70E-05	6.10E-04	6.10E-04	3.44E-03	9.15E-05	1.18E-03	9.19E-04	2.70E-05	2.23E-05	6.10E-04	2.85E-03
9.27E-05	1.21E-03	9.12E-04	2.72E-05	6.14E-04	6.14E-04	3.48E-03	9.27E-05	1.21E-03	9.12E-04	2.72E-05	2.28E-05	6.14E-04	2.88E-03
9.43E-05	1.26E-03	9.04E-04	2.74E-05	6.21E-04	6.21E-04	3.53E-03	9.43E-05	1.26E-03	9.04E-04	2.74E-05	2.30E-05	6.21E-04	2.93E-03
9.59E-05	1.30E-03	8.92E-04	2.72E-05	6.33E-04	6.33E-04	3.58E-03	9.59E-05	1.30E-03	8.92E-04	2.72E-05	2.24E-05	6.33E-04	2.97E-03
9.71E-05	1.34E-03	8.83E-04	2.69E-05	6.34E-04	6.34E-04	3.62E-03	9.71E-05	1.34E-03	8.83E-04	2.69E-05	2.15E-05	6.34E-04	3.01E-03
9.83E-05	1.38E-03	8.78E-04	2.66E-05	6.24E-04	6.24E-04	3.63E-03	9.83E-05	1.38E-03	8.78E-04	2.66E-05	2.07E-05	6.24E-04	3.03E-03
9.91E-05	1.41E-03	8.72E-04	2.64E-05	6.36E-04	6.36E-04	3.69E-03	9.91E-05	1.41E-03	8.72E-04	2.64E-05	2.00E-05	6.36E-04	3.07E-03
1.00E-04	1.44E-03	8.68E-04	2.62E-05	6.37E-04	6.37E-04	3.71E-03	1.00E-04	1.44E-03	8.68E-04	2.62E-05	1.95E-05	6.37E-04	3.09E-03
1.02E-04	1.48E-03	8.65E-04	2.60E-05	6.25E-04	6.25E-04	3.72E-03	1.02E-04	1.48E-03	8.65E-04	2.60E-05	1.97E-05	6.25E-04	3.11E-03
1.04E-04	1.50E-03	8.67E-04	2.61E-05	6.20E-04	6.20E-04	3.74E-03	1.04E-04	1.50E-03	8.67E-04	2.61E-05	2.08E-05	6.20E-04	3.14E-03
1.07E-04	1.52E-03	8.68E-04	2.62E-05	6.10E-04	6.10E-04	3.74E-03	1.07E-04	1.52E-03	8.68E-04	2.62E-05	2.17E-05	6.10E-04	3.15E-03
1.09E-04	1.54E-03	8.75E-04	2.63E-05	6.03E-04	6.03E-04	3.75E-03	1.09E-04	1.54E-03	8.75E-04	2.63E-05	2.21E-05	6.03E-04	3.17E-03
1.11E-04	1.54E-03	8.82E-04	2.63E-05	6.13E-04	6.13E-04	3.79E-03	1.11E-04	1.54E-03	8.82E-04	2.63E-05	2.17E-05	6.13E-04	3.19E-03
1.12E-04	1.54E-03	8.87E-04	2.62E-05	6.24E-04	6.24E-04	3.82E-03	1.12E-04	1.54E-03	8.87E-04	2.62E-05	2.10E-05	6.24E-04	3.21E-03
1.08E-04	1.54E-03	9.00E-04	2.64E-05	6.17E-04	6.17E-04	3.81E-03	1.08E-04	1.54E-03	9.00E-04	2.64E-05	2.09E-05	6.17E-04	3.21E-03
1.00E-04	1.46E-03	9.09E-04	2.65E-05	5.86E-04	5.86E-04	3.67E-03	1.00E-04	1.46E-03	9.09E-04	2.65E-05	2.14E-05	5.86E-04	3.10E-03
9.35E-05	1.36E-03	8.94E-04	2.63E-05	5.46E-04	5.46E-04	3.46E-03	9.35E-05	1.36E-03	8.94E-04	2.63E-05	2.27E-05	5.46E-04	2.94E-03
9.39E-05	1.32E-03	8.95E-04	2.66E-05	5.42E-04	5.42E-04	3.42E-03	9.39E-05	1.32E-03	8.95E-04	2.66E-05	2.37E-05	5.42E-04	2.90E-03
8.99E-05	1.25E-03	8.78E-04	2.64E-05	5.06E-04	5.06E-04	3.25E-03	8.99E-05	1.25E-03	8.78E-04	2.64E-05	2.25E-05	5.06E-04	2.77E-03
7.55E-05	9.44E-04	7.11E-04	2.22E-05	3.48E-04	3.48E-04	2.45E-03	7.55E-05	9.44E-04	7.11E-04	2.22E-05	1.91E-05	3.48E-04	2.12E-03
7.27E-05	9.22E-04	7.08E-04	2.25E-05	3.63E-04	3.63E-04	2.45E-03	7.27E-05	9.22E-04	7.08E-04	2.25E-05	2.05E-05	3.63E-04	2.11E-03
7.59E-05	1.05E-03	7.83E-04	2.51E-05	4.58E-04	4.58E-04	2.85E-03	7.59E-05	1.05E-03	7.83E-04	2.51E-05	2.33E-05	4.58E-04	2.42E-03
8.11E-05	1.21E-03	8.54E-04	2.63E-05	5.72E-04	5.72E-04	3.32E-03	8.11E-05	1.21E-03	8.54E-04	2.63E-05	2.35E-05	5.72E-04	2.77E-03
9.07E-05	1.42E-03	9.49E-04	2.67E-05	6.50E-04	6.50E-04	3.79E-03	9.07E-05	1.42E-03	9.49E-04	2.67E-05	2.33E-05	6.50E-04	3.16E-03
9.19E-05	1.43E-03	1.00E-03	2.70E-05	6.33E-04	6.33E-04	3.82E-03	9.19E-05	1.43E-03	1.00E-03	2.70E-05	2.39E-05	6.33E-04	3.21E-03
9.15E-05	1.44E-03	1.01E-03	2.79E-05	6.03E-04	6.03E-04	3.78E-03	9.15E-05	1.44E-03	1.01E-03	2.79E-05	2.51E-05	6.03E-04	3.20E-03
8.91E-05	1.45E-03	9.82E-04	2.82E-05	5.88E-04	5.88E-04	3.72E-03	8.91E-05	1.45E-03	9.82E-04	2.82E-05	2.59E-05	5.88E-04	3.16E-03
8.63E-05	1.43E-03	9.19E-04	2.77E-05	5.78E-04	5.78E-04	3.62E-03	8.63E-05	1.43E-03	9.19E-04	2.77E-05	2.55E-05	5.78E-04	3.07E-03
8.87E-05	1.48E-03	8.80E-04	2.65E-05	6.01E-04	6.01E-04	3.68E-03	8.87E-05	1.48E-03	8.80E-04	2.65E-05	2.43E-05	6.01E-04	3.10E-03
9.19E-05	1.44E-03	8.68E-04	2.54E-05	6.17E-04	6.17E-04	3.66E-03	9.19E-05	1.44E-03	8.68E-04	2.54E-05	2.31E-05	6.17E-04	3.06E-03
8.47E-05	1.34E-03	8.58E-04	2.47E-05	6.04E-04	6.04E-04	3.52E-03	8.47E-05	1.34E-03	8.58E-04	2.47E-05	2.20E-05	6.04E-04	2.94E-03
6.35E-05	8.26E-04	4.86E-04	1.41E-05	2.86E-04	2.86E-04	1.96E-03	6.35E-05	8.26E-04	4.86E-04	1.41E-05	1.19E-05	2.86E-04	1.69E-03
6.43E-05	8.43E-04	4.96E-04	1.44E-05	2.94E-04	2.94E-04	2.01E-03	6.43E-05	8.43E-04	4.96E-04	1.44E-05	1.23E-05	2.94E-04	1.72E-03
6.55E-05	8.59E-04	5.05E-04	1.47E-05	3.03E-04	3.03E-04	2.05E-03	6.55E-05	8.59E-04	5.05E-04	1.47E-05	1.27E-05	3.03E-04	1.76E-03
6.63E-05	8.71E-04	5.14E-04	1.49E-05	3.11E-04	3.11E-04	2.09E-03	6.63E-05	8.71E-04	5.14E-04	1.49E-05	1.29E-05	3.11E-04	1.79E-03
6.71E-05	8.87E-04	5.28E-04	1.53E-05	3.19E-04	3.19E-04	2.13E-03	6.71E-05	8.87E-04	5.28E-04	1.53E-05	1.32E-05	3.19E-04	1.83E-03
6.83E-05	9.04E-04	5.42E-04	1.58E-05	3.27E-04	3.27E-04	2.18E-03	6.83E-05	9.04E-04	5.42E-04	1.58E-05	1.35E-05	3.27E-04	1.87E-03
6.95E-05	9.20E-04	5.59E-04	1.63E-05	3.36E-04	3.36E-04	2.24E-03	6.95E-05	9.20E-04	5.59E-04	1.63E-05	1.38E-05	3.36E-04	1.91E-03
7.03E-05	9.36E-04	5.78E-04	1.68E-05	3.46E-04	3.46E-04	2.29E-03	7.03E-05	9.36E-04	5.78E-04	1.68E-05	1.42E-05	3.46E-04	1.96E-03
7.11E-05	9.47E-04	5.97E-04	1.74E-05	3.57E-04	3.57E-04	2.35E-03	7.11E-05	9.47E-04	5.97E-04	1.74E-05	1.48E-05	3.57E-04	2.00E-03
7.19E-05	9.57E-04	6.19E-04	1.79E-05	3.69E-04	3.69E-04	2.40E-03	7.19E-05	9.57E-04	6.19E-04	1.79E-05	1.53E-05	3.69E-04	2.05E-03
7.27E-05	9.76E-04	6.51E-04	1.89E-05	3.78E-04	3.78E-04	2.48E-03	7.27E-05	9.76E-04	6.51E-04	1.89E-05	1.62E-05	3.78E-04	2.11E-03
6.95E-05	9.48E-04	6.55E-04	1.94E-05	3.51E-04	3.51E-04	2.39E-03	6.95E-05	9.48E-04	6.55E-04	1.94E-05	1.67E-05	3.51E-04	2.06E-03
7.31E-05	9.86E-04	6.96E-04	2.04E-05	3.87E-04	3.87E-04	2.55E-03	7.31E-05	9.86E-04	6.96E-04	2.04E-05	1.75E-05	3.87E-04	2.18E-03
7.55E-05	1.00E-03	7.17E-04	2.08E-05	4.09E-04	4.09E-04	2.63E-03	7.55E-05	1.00E-03	7.17E-04	2.08E-05	1.81E-05	4.09E-04	2.24E-03
7.59E-05	1.01E-03	7.29E-04	2.12E-05	4.15E-04	4.15E-04	2.66E-03	7.59E-05	1.01E-03	7.29E-04	2.12E-05	1.87E-05	4.15E-04	2.27E-03
7.67E-05	1.02E-03	7.46E-04	2.18E-05	4.23E-04	4.23E-04	2.71E-03	7.67E-05	1.02E-03	7.46E-04	2.18E-05	1.93E-05	4.23E-04	2.30E-03
7.75E-05	1.03E-03	7.65E-04	2.23E-05	4.35E-04	4.35E-04	2.76E-03	7.75E-05	1.03E-03	7.65E-04	2.23E-05	1.99E-05	4.35E-04	2.35E-03
7.83E-05	1.03E-03	7.87E-04	2.28E-05	4.50E-04	4.50E-04	2.82E-03	7.83E-05	1.03E-03	7.87E-04	2.28E-05	2.03E-05	4.50E-04	2.39E-03
7.91E-05	1.04E-03	8.07E-04	2.32E-05	4.63E-04	4.63E-04	2.88E-03	7.91E-05	1.04E-03	8.07E-04	2.32E-05	2.04E-05	4.63E-04	2.43E-03
8.03E-05	1.04E-03	8.20E-04	2.36E-05	4.74E-04	4.74E-04	2.91E-03	8.03E-05	1.04E-03	8.20E-04	2.36E-05	2.04E-05	4.74E-04	2.46E-03
8.19E-05	1.05E-03	8.31E-04	2.41E-05	4.86E-04	4.86E-04	2.96E-03	8.19E-05	1.05E-03	8.31E-04	2.41E-05	2.04E-05	4.86E-04	2.49E-03
8.27E-05	1.05E-03	8.36E-04	2.44E-05	5.03E-04	5.03E-04	3.00E-03	8.27E-05	1.05E-03	8.36E-04	2.44E-05	2.05E-05	5.03E-04	2.52E-03

8.35E-05	1.07E-03	8.42E-04	2.46E-05	5.27E-04	5.27E-04	3.07E-03	8.35E-05	1.07E-03	8.42E-04	2.46E-05	2.06E-05	5.27E-04	2.56E-03
8.47E-05	1.09E-03	8.46E-04	2.48E-05	5.49E-04	5.49E-04	3.14E-03	8.47E-05	1.09E-03	8.46E-04	2.48E-05	2.05E-05	5.49E-04	2.61E-03
8.55E-05	1.11E-03	8.44E-04	2.50E-05	5.57E-04	5.57E-04	3.18E-03	8.55E-05	1.11E-03	8.44E-04	2.50E-05	2.07E-05	5.57E-04	2.64E-03
8.71E-05	1.14E-03	8.37E-04	2.51E-05	5.58E-04	5.58E-04	3.21E-03	8.71E-05	1.14E-03	8.37E-04	2.51E-05	2.11E-05	5.58E-04	2.67E-03
8.75E-05	1.18E-03	8.27E-04	2.52E-05	5.63E-04	5.63E-04	3.24E-03	8.75E-05	1.18E-03	8.27E-04	2.52E-05	2.11E-05	5.63E-04	2.70E-03
8.87E-05	1.22E-03	8.19E-04	2.52E-05	5.71E-04	5.71E-04	3.30E-03	8.87E-05	1.22E-03	8.19E-04	2.52E-05	2.06E-05	5.71E-04	2.75E-03
8.99E-05	1.26E-03	8.09E-04	2.48E-05	5.62E-04	5.62E-04	3.30E-03	8.99E-05	1.26E-03	8.09E-04	2.48E-05	1.98E-05	5.62E-04	2.76E-03
9.15E-05	1.29E-03	8.01E-04	2.44E-05	5.56E-04	5.56E-04	3.31E-03	9.15E-05	1.29E-03	8.01E-04	2.44E-05	1.91E-05	5.56E-04	2.78E-03
9.31E-05	1.31E-03	7.97E-04	2.43E-05	5.72E-04	5.72E-04	3.37E-03	9.31E-05	1.31E-03	7.97E-04	2.43E-05	1.84E-05	5.72E-04	2.82E-03
9.47E-05	1.34E-03	7.96E-04	2.42E-05	5.72E-04	5.72E-04	3.39E-03	9.47E-05	1.34E-03	7.96E-04	2.42E-05	1.79E-05	5.72E-04	2.84E-03
9.63E-05	1.38E-03	8.08E-04	2.46E-05	5.68E-04	5.68E-04	3.44E-03	9.63E-05	1.38E-03	8.08E-04	2.46E-05	1.85E-05	5.68E-04	2.89E-03
9.63E-05	1.40E-03	8.16E-04	2.49E-05	5.61E-04	5.61E-04	3.46E-03	9.63E-05	1.40E-03	8.16E-04	2.49E-05	1.96E-05	5.61E-04	2.92E-03
9.79E-05	1.41E-03	8.17E-04	2.49E-05	5.49E-04	5.49E-04	3.45E-03	9.79E-05	1.41E-03	8.17E-04	2.49E-05	2.05E-05	5.49E-04	2.92E-03
9.47E-05	1.40E-03	8.23E-04	2.51E-05	5.29E-04	5.29E-04	3.40E-03	9.47E-05	1.40E-03	8.23E-04	2.51E-05	2.11E-05	5.29E-04	2.89E-03
9.23E-05	1.37E-03	8.23E-04	2.51E-05	5.27E-04	5.27E-04	3.37E-03	9.23E-05	1.37E-03	8.23E-04	2.51E-05	2.09E-05	5.27E-04	2.86E-03
8.79E-05	1.32E-03	8.07E-04	2.48E-05	5.12E-04	5.12E-04	3.26E-03	8.79E-05	1.32E-03	8.07E-04	2.48E-05	2.02E-05	5.12E-04	2.77E-03
9.83E-05	1.40E-03	8.22E-04	2.44E-05	5.56E-04	5.56E-04	3.46E-03	9.83E-05	1.40E-03	8.22E-04	2.44E-05	1.94E-05	5.56E-04	2.92E-03
1.01E-04	1.38E-03	8.25E-04	2.41E-05	5.48E-04	5.48E-04	3.43E-03	1.01E-04	1.38E-03	8.25E-04	2.41E-05	1.92E-05	5.48E-04	2.90E-03
9.63E-05	1.36E-03	8.38E-04	2.43E-05	5.46E-04	5.46E-04	3.41E-03	9.63E-05	1.36E-03	8.38E-04	2.43E-05	2.01E-05	5.46E-04	2.88E-03
8.07E-05	1.14E-03	7.97E-04	2.39E-05	4.48E-04	4.48E-04	2.94E-03	8.07E-05	1.14E-03	7.97E-04	2.39E-05	2.16E-05	4.48E-04	2.51E-03
8.19E-05	1.16E-03	8.04E-04	2.43E-05	4.62E-04	4.62E-04	2.99E-03	8.19E-05	1.16E-03	8.04E-04	2.43E-05	2.17E-05	4.62E-04	2.55E-03
7.59E-05	1.02E-03	7.47E-04	2.29E-05	3.92E-04	3.92E-04	2.66E-03	7.59E-05	1.02E-03	7.47E-04	2.29E-05	1.95E-05	3.92E-04	2.28E-03
7.55E-05	1.07E-03	7.84E-04	2.31E-05	4.21E-04	4.21E-04	2.79E-03	7.55E-05	1.07E-03	7.84E-04	2.31E-05	1.98E-05	4.21E-04	2.39E-03
7.67E-05	1.14E-03	8.20E-04	2.42E-05	4.72E-04	4.72E-04	3.00E-03	7.67E-05	1.14E-03	8.20E-04	2.42E-05	2.17E-05	4.72E-04	2.55E-03
8.11E-05	1.24E-03	8.34E-04	2.50E-05	5.53E-04	5.53E-04	3.28E-03	8.11E-05	1.24E-03	8.34E-04	2.50E-05	2.24E-05	5.53E-04	2.75E-03
7.99E-05	1.23E-03	8.18E-04	2.46E-05	5.68E-04	5.68E-04	3.29E-03	7.99E-05	1.23E-03	8.18E-04	2.46E-05	2.16E-05	5.68E-04	2.74E-03
7.67E-05	1.22E-03	8.50E-04	2.39E-05	5.51E-04	5.51E-04	3.27E-03	7.67E-05	1.22E-03	8.50E-04	2.39E-05	2.03E-05	5.51E-04	2.74E-03
7.51E-05	1.21E-03	8.97E-04	2.43E-05	5.21E-04	5.21E-04	3.24E-03	7.51E-05	1.21E-03	8.97E-04	2.43E-05	2.14E-05	5.21E-04	2.74E-03
7.51E-05	1.23E-03	9.07E-04	2.57E-05	5.00E-04	5.00E-04	3.23E-03	7.51E-05	1.23E-03	9.07E-04	2.57E-05	2.35E-05	5.00E-04	2.76E-03
7.43E-05	1.21E-03	8.72E-04	2.60E-05	4.76E-04	4.76E-04	3.14E-03	7.43E-05	1.21E-03	8.72E-04	2.60E-05	2.38E-05	4.76E-04	2.68E-03
7.59E-05	1.24E-03	8.32E-04	2.55E-05	4.86E-04	4.86E-04	3.14E-03	7.59E-05	1.24E-03	8.32E-04	2.55E-05	2.34E-05	4.86E-04	2.68E-03
7.71E-05	1.29E-03	7.93E-04	2.45E-05	5.10E-04	5.10E-04	3.20E-03	7.71E-05	1.29E-03	7.93E-04	2.45E-05	2.25E-05	5.10E-04	2.72E-03
7.03E-05	1.13E-03	7.16E-04	2.23E-05	4.51E-04	4.51E-04	2.84E-03	7.03E-05	1.13E-03	7.16E-04	2.23E-05	2.04E-05	4.51E-04	2.41E-03
2.75E-02	4.21E-01	4.86E-04	1.63E-05	1.57E-04	1.57E-04	4.49E-01	2.75E-02	4.21E-01	4.86E-04	1.63E-05	1.39E-05	1.57E-04	4.49E-01
3.24E-02	4.67E-01	5.55E-04	1.86E-05	1.75E-04	1.75E-04	5.00E-01	3.24E-02	4.67E-01	5.55E-04	1.86E-05	1.58E-05	1.75E-04	5.00E-01
2.52E-02	4.79E-01	5.65E-04	1.89E-05	1.78E-04	1.78E-04	5.05E-01	2.52E-02	4.79E-01	5.65E-04	1.89E-05	1.60E-05	1.78E-04	5.05E-01
2.93E-02	4.76E-01	5.59E-04	1.89E-05	1.75E-04	1.75E-04	5.07E-01	2.93E-02	4.76E-01	5.59E-04	1.89E-05	1.60E-05	1.75E-04	5.07E-01
2.16E-02	3.72E-01	5.53E-04	1.88E-05	1.73E-04	1.73E-04	3.95E-01	2.16E-02	3.72E-01	5.53E-04	1.88E-05	1.60E-05	1.73E-04	3.95E-01
2.20E-02	3.68E-01	5.57E-04	1.89E-05	1.75E-04	1.75E-04	3.91E-01	2.20E-02	3.68E-01	5.57E-04	1.89E-05	1.61E-05	1.75E-04	3.91E-01
3.23E-02	4.93E-01	5.81E-04	1.97E-05	1.88E-04	1.88E-04	5.26E-01	3.23E-02	4.93E-01	5.81E-04	1.97E-05	1.66E-05	1.88E-04	5.26E-01
2.93E-02	5.62E-01	5.91E-04	2.07E-05	2.23E-04	2.23E-04	5.93E-01	2.93E-02	5.62E-01	5.91E-04	2.07E-05	1.71E-05	2.23E-04	5.93E-01
4.07E-02	5.36E-01	5.96E-04	2.08E-05	2.23E-04	2.23E-04	5.78E-01	4.07E-02	5.36E-01	5.96E-04	2.08E-05	1.72E-05	2.23E-04	5.78E-01
3.64E-02	5.25E-01	5.95E-04	2.09E-05	2.28E-04	2.28E-04	5.62E-01	3.64E-02	5.25E-01	5.95E-04	2.09E-05	1.72E-05	2.28E-04	5.62E-01
3.66E-02	5.40E-01	5.92E-04	2.09E-05	2.30E-04	2.30E-04	5.78E-01	3.66E-02	5.40E-01	5.92E-04	2.09E-05	1.73E-05	2.30E-04	5.77E-01
4.38E-02	5.77E-01	5.99E-04	2.13E-05	2.41E-04	2.41E-04	6.22E-01	4.38E-02	5.77E-01	5.99E-04	2.13E-05	1.75E-05	2.41E-04	6.21E-01
3.77E-02	5.90E-01	6.05E-04	2.15E-05	2.50E-04	2.50E-04	6.29E-01	3.77E-02	5.90E-01	6.05E-04	2.15E-05	1.76E-05	2.50E-04	6.29E-01
3.75E-02	5.39E-01	6.24E-04	2.24E-05	2.69E-04	2.69E-04	5.78E-01	3.75E-02	5.39E-01	6.24E-04	2.24E-05	1.81E-05	2.69E-04	5.78E-01
3.66E-02	3.81E-01	7.27E-04	2.56E-05	3.37E-04	3.37E-04	4.19E-01	3.66E-02	3.81E-01	7.27E-04	2.56E-05	1.98E-05	3.37E-04	4.19E-01
2.60E-02	5.34E-01	7.27E-04	2.52E-05	3.35E-04	3.35E-04	5.62E-01	2.60E-02	5.34E-01	7.27E-04	2.52E-05	1.96E-05	3.35E-04	5.61E-01
2.69E-02	4.96E-01	9.08E-04	2.74E-05	3.51E-04	3.51E-04	5.25E-01	2.69E-02	4.96E-01	9.08E-04	2.74E-05	2.08E-05	3.51E-04	5.24E-01
2.08E-02	4.61E-01	9.18E-04	2.74E-05	3.50E-04	3.50E-04	4.83E-01	2.08E-02	4.61E-01	9.18E-04	2.74E-05	2.07E-05	3.50E-04	4.83E-01
1.91E-02	4.29E-01	1.24E-03	3.32E-05	3.85E-04	3.85E-04	4.50E-01	1.91E-02	4.29E-01	1.24E-03	3.32E-05	2.37E-05	3.85E-04	4.49E-01
7.72E-03	2.10E-01	1.27E-03	3.30E-05	3.70E-04	3.70E-04	2.20E-01	7.72E-03	2.10E-01	1.27E-03	3.30E-05	2.35E-05	3.70E-04	2.19E-01
8.01E-03	2.23E-01	1.48E-03	3.93E-05	3.72E-04	3.72E-04	2.33E-01	8.01E-03	2.23E-01	1.48E-03	3.93E-05	2.77E-05	3.72E-04	2.33E-01

6.95E-03	1.99E-01	1.54E-03	4.33E-05	3.78E-04	3.78E-04	2.08E-01	6.95E-03	1.99E-01	1.54E-03	4.33E-05	3.16E-05	3.78E-04	2.08E-01
1.79E-02	4.33E-01	1.60E-03	4.26E-05	3.99E-04	3.99E-04	4.54E-01	1.79E-02	4.33E-01	1.60E-03	4.26E-05	3.02E-05	3.99E-04	4.53E-01
1.87E-02	4.65E-01	1.77E-03	5.24E-05	4.41E-04	4.41E-04	4.86E-01	1.87E-02	4.65E-01	1.77E-03	5.24E-05	3.89E-05	4.41E-04	4.86E-01
1.76E-02	4.46E-01	1.81E-03	5.65E-05	4.58E-04	4.58E-04	4.66E-01	1.76E-02	4.46E-01	1.81E-03	5.65E-05	4.33E-05	4.58E-04	4.66E-01
1.72E-02	4.45E-01	1.86E-03	6.18E-05	4.76E-04	4.76E-04	4.65E-01	1.72E-02	4.45E-01	1.86E-03	6.18E-05	4.92E-05	4.76E-04	4.65E-01
1.30E-02	3.45E-01	1.84E-03	6.24E-05	4.71E-04	4.71E-04	3.61E-01	1.30E-02	3.45E-01	1.84E-03	6.24E-05	5.02E-05	4.71E-04	3.60E-01
1.05E-02	2.91E-01	1.82E-03	6.20E-05	4.65E-04	4.65E-04	3.04E-01	1.05E-02	2.91E-01	1.82E-03	6.20E-05	5.02E-05	4.65E-04	3.04E-01
1.97E-02	4.25E-01	3.12E-03	1.06E-04	6.71E-04	6.71E-04	4.49E-01	1.97E-02	4.25E-01	3.12E-03	1.06E-04	7.81E-05	6.71E-04	4.49E-01
2.01E-02	4.39E-01	3.17E-03	1.07E-04	6.77E-04	6.77E-04	4.64E-01	2.01E-02	4.39E-01	3.17E-03	1.07E-04	7.91E-05	6.77E-04	4.64E-01
1.61E-02	3.64E-01	4.20E-03	1.43E-04	8.04E-04	8.04E-04	3.86E-01	1.61E-02	3.64E-01	4.20E-03	1.43E-04	9.66E-05	8.04E-04	3.85E-01
7.56E-03	1.78E-02	2.94E-02	1.51E-03	1.07E-03	1.07E-03	5.85E-02	7.56E-03	1.78E-02	2.94E-02	1.51E-03	1.26E-04	1.07E-03	5.75E-02
6.87E-03	1.59E-02	3.33E-02	1.42E-03	1.08E-03	1.08E-03	5.96E-02	6.87E-03	1.59E-02	3.33E-02	1.42E-03	1.32E-04	1.08E-03	5.87E-02
2.61E-03	1.57E-02	1.96E-02	7.23E-04	1.01E-03	1.01E-03	4.06E-02	2.61E-03	1.57E-02	1.96E-02	7.23E-04	1.78E-04	1.01E-03	3.98E-02
6.29E-03	1.11E-02	3.76E-02	9.93E-04	1.17E-03	1.17E-03	5.83E-02	6.29E-03	1.11E-02	3.76E-02	9.93E-04	1.88E-04	1.17E-03	5.73E-02
1.03E-02	6.52E-03	3.37E-02	2.03E-03	1.73E-03	1.73E-03	5.60E-02	1.03E-02	6.52E-03	3.37E-02	2.03E-03	2.96E-04	1.73E-03	5.46E-02
9.10E-03	6.29E-03	3.91E-02	7.68E-03	2.73E-03	2.73E-03	6.76E-02	9.10E-03	6.29E-03	3.91E-02	7.68E-03	5.42E-04	2.73E-03	6.54E-02
9.10E-03	6.21E-03	4.18E-02	7.33E-03	3.19E-03	3.19E-03	7.08E-02	9.10E-03	6.21E-03	4.18E-02	7.33E-03	7.20E-04	3.19E-03	6.84E-02
3.69E-03	4.19E-03	6.84E-02	7.11E-03	1.81E-02	1.81E-02	1.20E-01	3.69E-03	4.19E-03	6.84E-02	7.11E-03	9.45E-03	1.81E-02	1.11E-01
3.53E-03	4.29E-03	8.06E-02	6.70E-03	2.00E-02	2.00E-02	1.35E-01	3.53E-03	4.29E-03	8.06E-02	6.70E-03	1.01E-02	2.00E-02	1.25E-01
2.78E-03	4.30E-03	7.33E-02	5.10E-03	1.71E-02	1.71E-02	1.20E-01	2.78E-03	4.30E-03	7.33E-02	5.10E-03	7.70E-03	1.71E-02	1.10E-01
2.49E-03	4.28E-03	6.94E-02	4.51E-03	1.59E-02	1.59E-02	1.13E-01	2.49E-03	4.28E-03	6.94E-02	4.51E-03	6.86E-03	1.59E-02	1.03E-01
1.67E-03	4.25E-03	5.71E-02	2.69E-03	1.22E-02	1.22E-02	9.01E-02	1.67E-03	4.25E-03	5.71E-02	2.69E-03	3.99E-03	1.22E-02	8.19E-02
1.79E-03	4.29E-03	6.03E-02	2.76E-03	1.25E-02	1.25E-02	9.41E-02	1.79E-03	4.29E-03	6.03E-02	2.76E-03	4.01E-03	1.25E-02	8.56E-02
1.52E-03	4.32E-03	5.42E-02	2.26E-03	1.12E-02	1.12E-02	8.46E-02	1.52E-03	4.32E-03	5.42E-02	2.26E-03	3.08E-03	1.12E-02	7.65E-02
1.34E-03	4.27E-03	4.85E-02	2.13E-03	1.06E-02	1.06E-02	7.74E-02	1.34E-03	4.27E-03	4.85E-02	2.13E-03	3.10E-03	1.06E-02	6.99E-02
1.25E-03	4.29E-03	4.61E-02	1.93E-03	1.01E-02	1.01E-02	7.37E-02	1.25E-03	4.29E-03	4.61E-02	1.93E-03	2.75E-03	1.01E-02	6.64E-02
1.42E-03	4.38E-03	5.19E-02	2.05E-03	1.06E-02	1.06E-02	8.10E-02	1.42E-03	4.38E-03	5.19E-02	2.05E-03	2.64E-03	1.06E-02	7.30E-02
1.46E-03	4.39E-03	5.30E-02	2.06E-03	1.06E-02	1.06E-02	8.21E-02	1.46E-03	4.39E-03	5.30E-02	2.06E-03	2.52E-03	1.06E-02	7.40E-02
1.48E-03	4.42E-03	5.37E-02	2.05E-03	1.05E-02	1.05E-02	8.26E-02	1.48E-03	4.42E-03	5.37E-02	2.05E-03	2.35E-03	1.05E-02	7.45E-02
1.48E-03	4.45E-03	5.37E-02	2.00E-03	1.03E-02	1.03E-02	8.21E-02	1.48E-03	4.45E-03	5.37E-02	2.00E-03	2.13E-03	1.03E-02	7.40E-02
1.48E-03	4.52E-03	5.38E-02	1.91E-03	9.98E-03	9.98E-03	8.17E-02	1.48E-03	4.52E-03	5.38E-02	1.91E-03	1.78E-03	9.98E-03	7.35E-02
1.51E-03	4.61E-03	5.43E-02	1.87E-03	9.92E-03	9.92E-03	8.21E-02	1.51E-03	4.61E-03	5.43E-02	1.87E-03	1.55E-03	9.92E-03	7.37E-02
1.57E-03	4.70E-03	5.55E-02	1.87E-03	1.00E-02	1.00E-02	8.36E-02	1.57E-03	4.70E-03	5.55E-02	1.87E-03	1.39E-03	1.00E-02	7.50E-02
2.23E-03	5.36E-03	6.61E-02	2.04E-03	1.15E-02	1.15E-02	9.88E-02	2.23E-03	5.36E-03	6.61E-02	2.04E-03	7.59E-04	1.15E-02	8.80E-02
2.68E-03	5.53E-03	7.25E-02	2.22E-03	1.22E-02	1.22E-02	1.07E-01	2.68E-03	5.53E-03	7.25E-02	2.22E-03	6.65E-04	1.22E-02	9.58E-02
2.68E-03	5.58E-03	7.20E-02	2.14E-03	1.24E-02	1.24E-02	1.07E-01	2.68E-03	5.58E-03	7.20E-02	2.14E-03	6.45E-04	1.24E-02	9.54E-02
2.73E-03	5.59E-03	7.26E-02	2.15E-03	1.24E-02	1.24E-02	1.08E-01	2.73E-03	5.59E-03	7.26E-02	2.15E-03	6.39E-04	1.24E-02	9.61E-02
2.82E-03	6.42E-03	6.65E-02	1.51E-03	3.83E-02	3.83E-02	1.54E-01	2.82E-03	6.42E-03	6.65E-02	1.51E-03	8.23E-04	3.83E-02	1.16E-01
2.75E-03	6.51E-03	6.48E-02	1.46E-03	3.78E-02	3.78E-02	1.51E-01	2.75E-03	6.51E-03	6.48E-02	1.46E-03	8.09E-04	3.78E-02	1.14E-01
1.82E-03	6.71E-03	4.70E-02	1.08E-03	1.90E-02	1.90E-02	9.46E-02	1.82E-03	6.71E-03	4.70E-02	1.08E-03	5.87E-04	1.90E-02	7.62E-02
1.85E-03	6.81E-03	4.71E-02	1.07E-03	1.89E-02	1.89E-02	9.46E-02	1.85E-03	6.81E-03	4.71E-02	1.07E-03	5.70E-04	1.89E-02	7.63E-02
2.92E-03	6.58E-03	6.64E-02	1.46E-03	4.05E-02	4.05E-02	1.58E-01	2.92E-03	6.58E-03	6.64E-02	1.46E-03	8.28E-04	4.05E-02	1.19E-01
2.97E-03	6.46E-03	6.80E-02	1.52E-03	4.12E-02	4.12E-02	1.61E-01	2.97E-03	6.46E-03	6.80E-02	1.52E-03	8.49E-04	4.12E-02	1.21E-01
2.86E-03	5.63E-03	7.43E-02	2.18E-03	1.26E-02	1.26E-02	1.10E-01	2.86E-03	5.63E-03	7.43E-02	2.18E-03	6.23E-04	1.26E-02	9.82E-02
3.68E-03	5.79E-03	8.24E-02	2.25E-03	1.36E-02	1.36E-02	1.21E-01	3.68E-03	5.79E-03	8.24E-02	2.25E-03	5.65E-04	1.36E-02	1.08E-01
3.82E-03	7.12E-03	7.17E-02	1.44E-03	2.54E-02	2.54E-02	1.35E-01	3.82E-03	7.12E-03	7.17E-02	1.44E-03	5.49E-04	2.54E-02	1.10E-01
3.60E-03	7.98E-03	6.34E-02	1.32E-03	1.90E-02	1.90E-02	1.14E-01	3.60E-03	7.98E-03	6.34E-02	1.32E-03	4.20E-04	1.90E-02	9.57E-02
3.78E-03	8.92E-03	5.57E-02	1.30E-03	1.74E-02	1.74E-02	1.05E-01	3.78E-03	8.92E-03	5.57E-02	1.30E-03	3.54E-04	1.74E-02	8.75E-02
1.80E-03	7.17E-03	4.33E-02	9.82E-04	1.64E-02	1.64E-02	8.61E-02	1.80E-03	7.17E-03	4.33E-02	9.82E-04	5.02E-04	1.64E-02	7.02E-02
1.52E-03	6.65E-03	3.94E-02	9.26E-04	1.48E-02	1.48E-02	7.82E-02	1.52E-03	6.65E-03	3.94E-02	9.26E-04	5.28E-04	1.48E-02	6.39E-02
1.35E-03	6.15E-03	3.58E-02	8.63E-04	1.33E-02	1.33E-02	7.08E-02	1.35E-03	6.15E-03	3.58E-02	8.63E-04	5.22E-04	1.33E-02	5.80E-02
1.09E-03	5.63E-03	2.83E-02	7.15E-04	1.08E-02	1.08E-02	5.74E-02	1.09E-03	5.63E-03	2.83E-02	7.15E-04	4.79E-04	1.08E-02	4.70E-02
1.05E-03	5.46E-03	2.73E-02	6.98E-04	1.05E-02	1.05E-02	5.54E-02	1.05E-03	5.46E-03	2.73E-02	6.98E-04	4.80E-04	1.05E-02	4.55E-02
9.89E-04	5.33E-03	2.63E-02	6.80E-04	1.01E-02	1.01E-02	5.34E-02	9.89E-04	5.33E-03	2.63E-02	6.80E-04	4.87E-04	1.01E-02	4.38E-02

1.02E-03	5.61E-03	2.56E-02	6.59E-04	1.02E-02	1.02E-02	5.32E-02	1.02E-03	5.61E-03	2.56E-02	6.59E-04	4.55E-04	1.02E-02	4.35E-02
1.14E-03	6.05E-03	2.75E-02	6.93E-04	1.10E-02	1.10E-02	5.73E-02	1.14E-03	6.05E-03	2.75E-02	6.93E-04	4.44E-04	1.10E-02	4.68E-02
1.45E-03	6.70E-03	3.55E-02	8.43E-04	1.34E-02	1.34E-02	7.14E-02	1.45E-03	6.70E-03	3.55E-02	8.43E-04	4.76E-04	1.34E-02	5.84E-02
1.66E-03	7.14E-03	3.93E-02	9.04E-04	1.46E-02	1.46E-02	7.83E-02	1.66E-03	7.14E-03	3.93E-02	9.04E-04	4.72E-04	1.46E-02	6.41E-02
2.07E-03	7.94E-03	4.31E-02	9.73E-04	1.57E-02	1.57E-02	8.55E-02	2.07E-03	7.94E-03	4.31E-02	9.73E-04	4.23E-04	1.57E-02	7.02E-02
3.86E-03	9.69E-03	4.98E-02	1.29E-03	1.70E-02	1.70E-02	9.87E-02	3.86E-03	9.69E-03	4.98E-02	1.29E-03	3.25E-04	1.70E-02	8.20E-02
3.87E-03	1.00E-02	4.76E-02	1.28E-03	1.70E-02	1.70E-02	9.67E-02	3.87E-03	1.00E-02	4.76E-02	1.28E-03	3.17E-04	1.70E-02	8.00E-02
3.67E-03	1.00E-02	4.63E-02	1.24E-03	1.68E-02	1.68E-02	9.48E-02	3.67E-03	1.00E-02	4.63E-02	1.24E-03	3.17E-04	1.68E-02	7.83E-02
3.58E-03	9.85E-03	4.68E-02	1.22E-03	1.68E-02	1.68E-02	9.50E-02	3.58E-03	9.85E-03	4.68E-02	1.22E-03	3.22E-04	1.68E-02	7.86E-02
3.47E-03	9.86E-03	4.61E-02	1.20E-03	1.67E-02	1.67E-02	9.40E-02	3.47E-03	9.86E-03	4.61E-02	1.20E-03	3.22E-04	1.67E-02	7.76E-02
3.70E-03	1.03E-02	4.46E-02	1.24E-03	1.68E-02	1.68E-02	9.34E-02	3.70E-03	1.03E-02	4.46E-02	1.24E-03	3.11E-04	1.68E-02	7.70E-02
3.89E-03	1.05E-02	4.41E-02	1.27E-03	1.69E-02	1.69E-02	9.36E-02	3.89E-03	1.05E-02	4.41E-02	1.27E-03	3.06E-04	1.69E-02	7.70E-02
6.78E-03	1.22E-02	4.12E-02	1.80E-03	1.86E-02	1.86E-02	9.90E-02	6.78E-03	1.22E-02	4.12E-02	1.80E-03	2.82E-04	1.86E-02	8.08E-02
9.11E-03	1.35E-02	3.70E-02	2.20E-03	1.96E-02	1.96E-02	1.01E-01	9.11E-03	1.35E-02	3.70E-02	2.20E-03	2.69E-04	1.96E-02	8.17E-02
6.47E-03	1.40E-02	3.49E-02	1.75E-03	1.90E-02	1.90E-02	9.52E-02	6.47E-03	1.40E-02	3.49E-02	1.75E-03	2.67E-04	1.90E-02	7.64E-02
4.21E-03	1.20E-02	3.81E-02	1.31E-03	1.73E-02	1.73E-02	9.02E-02	4.21E-03	1.20E-02	3.81E-02	1.31E-03	2.84E-04	1.73E-02	7.32E-02
4.63E-03	1.41E-02	3.28E-02	1.37E-03	1.82E-02	1.82E-02	8.93E-02	4.63E-03	1.41E-02	3.28E-02	1.37E-03	2.65E-04	1.82E-02	7.14E-02
4.92E-03	1.91E-02	2.67E-02	1.36E-03	2.03E-02	2.03E-02	9.28E-02	4.92E-03	1.91E-02	2.67E-02	1.36E-03	2.43E-04	2.03E-02	7.27E-02
5.91E-03	6.10E-02	2.04E-02	1.09E-03	2.50E-02	2.50E-02	1.38E-01	5.91E-03	6.10E-02	2.04E-02	1.09E-03	2.16E-04	2.50E-02	1.14E-01
6.37E-03	9.64E-02	1.83E-02	8.50E-04	2.63E-02	2.63E-02	1.74E-01	6.37E-03	9.64E-02	1.83E-02	8.50E-04	2.09E-04	2.63E-02	1.48E-01
6.55E-03	1.28E-01	1.59E-02	6.17E-04	2.67E-02	2.67E-02	2.05E-01	6.55E-03	1.28E-01	1.59E-02	6.17E-04	2.00E-04	2.67E-02	1.78E-01
7.80E-03	1.62E-01	1.49E-02	5.53E-04	2.79E-02	2.79E-02	2.41E-01	7.80E-03	1.62E-01	1.49E-02	5.53E-04	1.96E-04	2.79E-02	2.14E-01
7.32E-03	1.22E-01	1.76E-02	7.97E-04	2.75E-02	2.75E-02	2.03E-01	7.32E-03	1.22E-01	1.76E-02	7.97E-04	2.07E-04	2.75E-02	1.76E-01
5.21E-03	1.75E-02	2.86E-02	1.46E-03	1.98E-02	1.98E-02	9.24E-02	5.21E-03	1.75E-02	2.86E-02	1.46E-03	2.49E-04	1.98E-02	7.28E-02
6.30E-03	1.92E-02	2.80E-02	1.68E-03	2.11E-02	2.11E-02	9.75E-02	6.30E-03	1.92E-02	2.80E-02	1.68E-03	2.45E-04	2.11E-02	7.66E-02
6.35E-03	2.01E-02	2.75E-02	1.68E-03	2.15E-02	2.15E-02	9.85E-02	6.35E-03	2.01E-02	2.75E-02	1.68E-03	2.43E-04	2.15E-02	7.73E-02
9.82E-03	2.42E-02	2.75E-02	2.35E-03	2.44E-02	2.44E-02	1.13E-01	9.82E-03	2.42E-02	2.75E-02	2.35E-03	2.37E-04	2.44E-02	8.85E-02
1.98E-02	3.75E-02	2.90E-02	3.91E-03	2.97E-02	2.97E-02	1.50E-01	1.98E-02	3.75E-02	2.90E-02	3.91E-03	2.27E-04	2.97E-02	1.20E-01
2.15E-02	3.44E-01	1.81E-02	9.13E-04	3.45E-02	3.45E-02	4.54E-01	2.15E-02	3.44E-01	1.81E-02	9.13E-04	2.09E-04	3.45E-02	4.20E-01
1.99E-02	3.87E-01	1.45E-02	5.44E-04	3.34E-02	3.34E-02	4.88E-01	1.99E-02	3.87E-01	1.45E-02	5.44E-04	1.99E-04	3.34E-02	4.55E-01
3.10E-02	3.42E-01	1.36E-02	4.77E-04	3.45E-02	3.45E-02	4.56E-01	3.10E-02	3.42E-01	1.36E-02	4.77E-04	1.96E-04	3.45E-02	4.21E-01
2.93E-02	4.35E-01	1.27E-02	4.24E-04	3.31E-02	3.31E-02	5.43E-01	2.93E-02	4.35E-01	1.27E-02	4.24E-04	1.92E-04	3.31E-02	5.10E-01
2.88E-02	4.68E-01	1.18E-02	3.72E-04	3.11E-02	3.11E-02	5.71E-01	2.88E-02	4.68E-01	1.18E-02	3.72E-04	1.85E-04	3.11E-02	5.41E-01
6.54E-03	1.28E-01	1.59E-02	6.15E-04	2.67E-02	2.67E-02	2.04E-01	6.54E-03	1.28E-01	1.59E-02	6.15E-04	2.00E-04	2.67E-02	1.78E-01
6.89E-03	1.52E-01	1.39E-02	4.71E-04	2.63E-02	2.63E-02	2.26E-01	6.89E-03	1.52E-01	1.39E-02	4.71E-04	1.90E-04	2.63E-02	2.00E-01
1.07E-02	2.34E-01	1.28E-02	4.19E-04	2.83E-02	2.83E-02	3.14E-01	1.07E-02	2.34E-01	1.28E-02	4.19E-04	1.87E-04	2.83E-02	2.86E-01
1.09E-02	2.39E-01	1.25E-02	4.06E-04	2.80E-02	2.80E-02	3.18E-01	1.09E-02	2.39E-01	1.25E-02	4.06E-04	1.85E-04	2.80E-02	2.91E-01
1.23E-02	2.66E-01	1.23E-02	3.96E-04	2.84E-02	2.84E-02	3.48E-01	1.23E-02	2.66E-01	1.23E-02	3.96E-04	1.85E-04	2.84E-02	3.20E-01
1.22E-02	2.62E-01	1.26E-02	4.08E-04	2.86E-02	2.86E-02	3.45E-01	1.22E-02	2.62E-01	1.26E-02	4.08E-04	1.86E-04	2.86E-02	3.16E-01
2.04E-02	4.04E-01	1.19E-02	3.74E-04	2.99E-02	2.99E-02	4.97E-01	2.04E-02	4.04E-01	1.19E-02	3.74E-04	1.84E-04	2.99E-02	4.67E-01
2.11E-02	4.27E-01	1.15E-02	3.55E-04	2.92E-02	2.92E-02	5.18E-01	2.11E-02	4.27E-01	1.15E-02	3.55E-04	1.82E-04	2.92E-02	4.89E-01
1.10E-02	2.42E-01	1.23E-02	3.94E-04	2.78E-02	2.78E-02	3.21E-01	1.10E-02	2.42E-01	1.23E-02	3.94E-04	1.84E-04	2.78E-02	2.94E-01
1.12E-02	2.50E-01	1.21E-02	3.79E-04	2.74E-02	2.74E-02	3.28E-01	1.12E-02	2.50E-01	1.21E-02	3.79E-04	1.82E-04	2.74E-02	3.01E-01
7.14E-03	1.63E-01	1.30E-02	4.21E-04	2.57E-02	2.57E-02	2.35E-01	7.14E-03	1.63E-01	1.30E-02	4.21E-04	1.85E-04	2.57E-02	2.09E-01
7.73E-03	1.86E-01	1.16E-02	3.48E-04	2.43E-02	2.43E-02	2.55E-01	7.73E-03	1.86E-01	1.16E-02	3.48E-04	1.76E-04	2.43E-02	2.30E-01
1.45E-02	3.31E-01	1.06E-02	3.13E-04	2.55E-02	2.55E-02	4.07E-01	1.45E-02	3.31E-01	1.06E-02	3.13E-04	1.73E-04	2.55E-02	3.82E-01
1.55E-02	3.56E-01	1.01E-02	2.93E-04	2.46E-02	2.46E-02	4.31E-01	1.55E-02	3.56E-01	1.01E-02	2.93E-04	1.68E-04	2.46E-02	4.06E-01
8.01E-03	1.97E-01	1.10E-02	3.23E-04	2.35E-02	2.35E-02	2.63E-01	8.01E-03	1.97E-01	1.10E-02	3.23E-04	1.71E-04	2.35E-02	2.40E-01
8.59E-03	2.16E-01	1.01E-02	2.86E-04	2.19E-02	2.19E-02	2.79E-01	8.59E-03	2.16E-01	1.01E-02	2.86E-04	1.63E-04	2.19E-02	2.57E-01
1.51E-02	3.55E-01	9.41E-03	2.65E-04	2.25E-02	2.25E-02	4.25E-01	1.51E-02	3.55E-01	9.41E-03	2.65E-04	1.60E-04	2.25E-02	4.02E-01
1.63E-02	3.83E-01	9.01E-03	2.52E-04	2.16E-02	2.16E-02	4.51E-01	1.63E-02	3.83E-01	9.01E-03	2.52E-04	1.56E-04	2.16E-02	4.30E-01
9.07E-03	2.29E-01	9.59E-03	2.68E-04	2.11E-02	2.11E-02	2.90E-01	9.07E-03	2.29E-01	9.59E-03	2.68E-04	1.59E-04	2.11E-02	2.69E-01
9.53E-03	2.43E-01	8.93E-03	2.46E-04	1.97E-02	1.97E-02	3.01E-01	9.53E-03	2.43E-01	8.93E-03	2.46E-04	1.52E-04	1.97E-02	2.82E-01
8.67E-03	2.26E-01	8.26E-03	2.22E-04	1.79E-02	1.79E-02	2.78E-01	8.67E-03	2.26E-01	8.26E-03	2.22E-04	1.43E-04	1.79E-02	2.61E-01

2.17E-02	5.24E-01	7.58E-03	2.05E-04	1.81E-02	1.81E-02	5.90E-01	2.17E-02	5.24E-01	7.58E-03	2.05E-04	1.39E-04	1.81E-02	5.72E-01
2.19E-02	5.33E-01	7.45E-03	2.00E-04	1.76E-02	1.76E-02	5.98E-01	2.19E-02	5.33E-01	7.45E-03	2.00E-04	1.36E-04	1.76E-02	5.80E-01
9.01E-03	2.34E-01	8.05E-03	2.15E-04	1.74E-02	1.74E-02	2.86E-01	9.01E-03	2.34E-01	8.05E-03	2.15E-04	1.40E-04	1.74E-02	2.68E-01
1.35E-02	3.46E-01	6.46E-03	1.67E-04	1.31E-02	1.31E-02	3.92E-01	1.35E-02	3.46E-01	6.46E-03	1.67E-04	1.18E-04	1.31E-02	3.79E-01
1.24E-02	3.21E-01	6.36E-03	1.64E-04	1.26E-02	1.26E-02	3.65E-01	1.24E-02	3.21E-01	6.36E-03	1.64E-04	1.17E-04	1.26E-02	3.52E-01
8.50E-03	2.33E-01	6.14E-03	1.57E-04	1.16E-02	1.16E-02	2.71E-01	8.50E-03	2.33E-01	6.14E-03	1.57E-04	1.13E-04	1.16E-02	2.60E-01
6.47E-03	1.75E-01	5.85E-03	1.49E-04	1.08E-02	1.08E-02	2.09E-01	6.47E-03	1.75E-01	5.85E-03	1.49E-04	1.09E-04	1.08E-02	1.98E-01
1.20E-02	2.76E-01	5.40E-03	1.38E-04	1.07E-02	1.07E-02	3.15E-01	1.20E-02	2.76E-01	5.40E-03	1.38E-04	1.02E-04	1.07E-02	3.04E-01
6.56E-03	1.75E-01	5.07E-03	1.29E-04	9.25E-03	9.25E-03	2.05E-01	6.56E-03	1.75E-01	5.07E-03	1.29E-04	9.70E-05	9.25E-03	1.96E-01
7.60E-03	1.98E-01	4.98E-03	1.27E-04	9.23E-03	9.23E-03	2.29E-01	7.60E-03	1.98E-01	4.98E-03	1.27E-04	9.58E-05	9.23E-03	2.20E-01
5.71E-03	1.54E-01	4.80E-03	1.22E-04	8.46E-03	8.46E-03	1.82E-01	5.71E-03	1.54E-01	4.80E-03	1.22E-04	9.29E-05	8.46E-03	1.73E-01
3.03E-02	2.68E-01	4.33E-03	1.12E-04	8.29E-03	8.29E-03	3.20E-01	3.03E-02	2.68E-01	4.33E-03	1.12E-04	8.70E-05	8.29E-03	3.12E-01
5.45E-03	9.16E-02	4.01E-03	1.05E-04	7.98E-03	7.98E-03	1.17E-01	5.45E-03	9.16E-02	4.01E-03	1.05E-04	8.33E-05	7.98E-03	1.09E-01
9.12E-03	1.41E-01	4.35E-03	1.13E-04	8.92E-03	8.92E-03	1.72E-01	9.12E-03	1.41E-01	4.35E-03	1.13E-04	8.81E-05	8.92E-03	1.64E-01
1.02E-02	1.54E-01	4.44E-03	1.15E-04	9.15E-03	9.15E-03	1.88E-01	1.02E-02	1.54E-01	4.44E-03	1.15E-04	8.93E-05	9.15E-03	1.78E-01
1.05E-02	1.62E-01	4.54E-03	1.18E-04	9.48E-03	9.48E-03	1.96E-01	1.05E-02	1.62E-01	4.54E-03	1.18E-04	9.10E-05	9.48E-03	1.87E-01
5.28E-03	1.09E-01	4.69E-03	1.22E-04	1.04E-02	1.04E-02	1.40E-01	5.28E-03	1.09E-01	4.69E-03	1.22E-04	9.41E-05	1.04E-02	1.30E-01
1.02E-02	1.73E-01	4.92E-03	1.27E-04	1.07E-02	1.07E-02	2.09E-01	1.02E-02	1.73E-01	4.92E-03	1.27E-04	9.68E-05	1.07E-02	1.99E-01
1.02E-02	1.77E-01	5.14E-03	1.33E-04	1.12E-02	1.12E-02	2.15E-01	1.02E-02	1.77E-01	5.14E-03	1.33E-04	1.00E-04	1.12E-02	2.04E-01
8.94E-03	1.69E-01	5.69E-03	1.49E-04	1.31E-02	1.31E-02	2.10E-01	8.94E-03	1.69E-01	5.69E-03	1.49E-04	1.10E-04	1.31E-02	1.97E-01
1.93E-02	2.69E-01	5.88E-03	1.53E-04	1.31E-02	1.31E-02	3.21E-01	1.93E-02	2.69E-01	5.88E-03	1.53E-04	1.12E-04	1.31E-02	3.08E-01
1.37E-02	2.07E-01	7.15E-03	1.95E-04	1.87E-02	1.87E-02	2.66E-01	1.37E-02	2.07E-01	7.15E-03	1.95E-04	1.38E-04	1.87E-02	2.47E-01
1.41E-02	2.07E-01	7.37E-03	2.02E-04	1.94E-02	1.94E-02	2.68E-01	1.41E-02	2.07E-01	7.37E-03	2.02E-04	1.42E-04	1.94E-02	2.49E-01
1.53E-02	2.21E-01	7.77E-03	2.15E-04	2.06E-02	2.06E-02	2.85E-01	1.53E-02	2.21E-01	7.77E-03	2.15E-04	1.48E-04	2.06E-02	2.65E-01
9.91E-03	1.70E-01	7.73E-03	2.15E-04	2.10E-02	2.10E-02	2.30E-01	9.91E-03	1.70E-01	7.73E-03	2.15E-04	1.49E-04	2.10E-02	2.09E-01
9.56E-03	1.64E-01	9.60E-03	2.83E-04	2.91E-02	2.91E-02	2.41E-01	9.56E-03	1.64E-01	9.60E-03	2.83E-04	1.72E-04	2.91E-02	2.12E-01
1.23E-02	1.93E-01	9.79E-03	2.89E-04	2.91E-02	2.91E-02	2.73E-01	1.23E-02	1.93E-01	9.79E-03	2.89E-04	1.73E-04	2.91E-02	2.44E-01
8.11E-03	7.71E-02	1.64E-02	6.98E-04	4.98E-02	4.98E-02	2.02E-01	8.11E-03	7.71E-02	1.64E-02	6.98E-04	2.06E-04	4.98E-02	1.52E-01
9.32E-04	2.34E-02	7.96E-03	2.15E-04	5.82E-02	5.82E-02	1.49E-01	9.32E-04	2.34E-02	7.96E-03	2.15E-04	1.58E-04	5.82E-02	9.09E-02
1.34E-03	3.66E-02	7.85E-03	2.19E-04	3.23E-02	3.23E-02	1.11E-01	1.34E-03	3.66E-02	7.85E-03	2.19E-04	1.55E-04	3.23E-02	7.85E-02
1.42E-03	3.86E-02	8.00E-03	2.25E-04	3.31E-02	3.31E-02	1.14E-01	1.42E-03	3.86E-02	8.00E-03	2.25E-04	1.57E-04	3.31E-02	8.14E-02
1.52E-03	4.14E-02	7.98E-03	2.26E-04	3.16E-02	3.16E-02	1.14E-01	1.52E-03	4.14E-02	7.98E-03	2.26E-04	1.57E-04	3.16E-02	8.29E-02
9.57E-04	2.68E-02	6.77E-03	1.82E-04	2.77E-02	2.77E-02	9.01E-02	9.57E-04	2.68E-02	6.77E-03	1.82E-04	1.38E-04	2.77E-02	6.26E-02
5.80E-04	1.29E-02	6.44E-03	1.73E-04	7.73E-02	7.73E-02	1.75E-01	5.80E-04	1.29E-02	6.44E-03	1.73E-04	1.62E-04	7.73E-02	9.76E-02
5.16E-04	1.15E-02	5.59E-03	1.50E-04	7.78E-02	7.78E-02	1.73E-01	5.16E-04	1.15E-02	5.59E-03	1.50E-04	1.17E-04	7.78E-02	9.57E-02
7.41E-04	2.06E-02	5.96E-03	1.57E-04	2.96E-02	2.96E-02	8.67E-02	7.41E-04	2.06E-02	5.96E-03	1.57E-04	1.24E-04	2.96E-02	5.72E-02
4.35E-04	1.06E-02	3.86E-03	1.03E-04	2.08E-02	2.08E-02	5.66E-02	4.35E-04	1.06E-02	3.86E-03	1.03E-04	8.18E-05	2.08E-02	3.59E-02
3.56E-04	7.82E-03	3.73E-03	1.01E-04	2.02E-02	2.02E-02	5.24E-02	3.56E-04	7.82E-03	3.73E-03	1.01E-04	7.76E-05	2.02E-02	3.23E-02
3.46E-04	7.59E-03	3.62E-03	9.84E-05	1.49E-02	1.49E-02	4.15E-02	3.46E-04	7.59E-03	3.62E-03	9.84E-05	7.53E-05	1.49E-02	2.66E-02
2.92E-04	5.47E-03	3.44E-03	9.52E-05	8.44E-03	8.44E-03	2.62E-02	2.92E-04	5.47E-03	3.44E-03	9.52E-05	7.16E-05	8.44E-03	1.78E-02
4.76E-04	7.76E-03	7.02E-03	1.85E-04	3.38E-02	3.38E-02	8.30E-02	4.76E-04	7.76E-03	7.02E-03	1.85E-04	1.25E-04	3.38E-02	4.94E-02
3.27E-04	4.06E-03	6.21E-03	1.59E-04	7.98E-03	7.98E-03	2.67E-02	3.27E-04	4.06E-03	6.21E-03	1.59E-04	1.20E-04	7.98E-03	1.89E-02
6.96E-04	4.11E-03	2.28E-02	4.38E-04	1.82E-02	1.82E-02	6.44E-02	6.96E-04	4.11E-03	2.28E-02	4.38E-04	3.74E-04	1.82E-02	4.66E-02
4.02E-04	3.65E-03	1.26E-02	2.82E-04	8.47E-03	8.47E-03	3.39E-02	4.02E-04	3.65E-03	1.26E-02	2.82E-04	2.84E-04	8.47E-03	2.57E-02
4.80E-04	3.63E-03	1.62E-02	3.47E-04	1.54E-02	1.54E-02	5.15E-02	4.80E-04	3.63E-03	1.62E-02	3.47E-04	3.65E-04	1.54E-02	3.65E-02
3.50E-04	3.50E-03	1.09E-02	2.49E-04	8.17E-03	8.17E-03	3.13E-02	3.50E-04	3.50E-03	1.09E-02	2.49E-04	2.56E-04	8.17E-03	2.34E-02
3.97E-04	3.61E-03	1.32E-02	2.91E-04	1.52E-02	1.52E-02	4.79E-02	3.97E-04	3.61E-03	1.32E-02	2.91E-04	3.02E-04	1.52E-02	3.30E-02
3.42E-04	3.54E-03	1.04E-02	2.36E-04	7.66E-03	7.66E-03	2.99E-02	3.42E-04	3.54E-03	1.04E-02	2.36E-04	2.32E-04	7.66E-03	2.24E-02
5.27E-04	4.63E-03	1.78E-02	3.46E-04	1.59E-02	1.59E-02	5.52E-02	5.27E-04	4.63E-03	1.78E-02	3.46E-04	3.14E-04	1.59E-02	3.96E-02
4.45E-04	4.59E-03	1.40E-02	2.84E-04	8.20E-03	8.20E-03	3.58E-02	4.45E-04	4.59E-03	1.40E-02	2.84E-04	2.46E-04	8.20E-03	2.78E-02
4.23E-03	4.62E-02	8.39E-03	3.07E-04	1.00E-03	1.00E-03	6.12E-02	4.23E-03	4.62E-02	8.39E-03	3.07E-04	9.17E-05	1.00E-03	6.02E-02
5.46E-03	9.26E-02	5.07E-03	1.63E-04	8.72E-04	8.72E-04	1.05E-01	5.46E-03	9.26E-02	5.07E-03	1.63E-04	8.80E-05	8.72E-04	1.04E-01
7.75E-03	1.27E-01	4.01E-03	1.31E-04	7.74E-04	7.74E-04	1.40E-01	7.75E-03	1.27E-01	4.01E-03	1.31E-04	8.42E-05	7.74E-04	1.40E-01
1.01E-02	1.47E-01	3.67E-03	1.19E-04	7.33E-04	7.33E-04	1.62E-01	1.01E-02	1.47E-01	3.67E-03	1.19E-04	8.04E-05	7.33E-04	1.61E-01

8.29E-03	1.47E-01	2.20E-03	7.01E-05	5.34E-04	5.34E-04	1.58E-01	8.29E-03	1.47E-01	2.20E-03	7.01E-05	5.35E-05	5.34E-04	1.58E-01
7.08E-03	1.55E-01	2.07E-03	6.48E-05	5.15E-04	5.15E-04	1.65E-01	7.08E-03	1.55E-01	2.07E-03	6.48E-05	4.94E-05	5.15E-04	1.65E-01
6.45E-03	1.45E-01	2.03E-03	6.27E-05	5.09E-04	5.09E-04	1.54E-01	6.45E-03	1.45E-01	2.03E-03	6.27E-05	4.72E-05	5.09E-04	1.54E-01
6.67E-03	1.45E-01	1.89E-03	5.27E-05	4.70E-04	4.70E-04	1.54E-01	6.67E-03	1.45E-01	1.89E-03	5.27E-05	3.72E-05	4.70E-04	1.54E-01
9.04E-03	1.70E-01	1.88E-03	5.29E-05	4.67E-04	4.67E-04	1.82E-01	9.04E-03	1.70E-01	1.88E-03	5.29E-05	3.77E-05	4.67E-04	1.82E-01
7.90E-03	1.80E-01	6.60E-04	2.37E-05	2.79E-04	2.79E-04	1.89E-01	7.90E-03	1.80E-01	6.60E-04	2.37E-05	1.88E-05	2.79E-04	1.89E-01
9.48E-03	2.40E-01	6.27E-04	2.20E-05	2.44E-04	2.44E-04	2.51E-01	9.48E-03	2.40E-01	6.27E-04	2.20E-05	1.79E-05	2.44E-04	2.50E-01
1.02E-02	2.46E-01	6.25E-04	2.18E-05	2.36E-04	2.36E-04	2.57E-01	1.02E-02	2.46E-01	6.25E-04	2.18E-05	1.77E-05	2.36E-04	2.57E-01
8.88E-03	2.35E-01	6.28E-04	2.16E-05	2.25E-04	2.25E-04	2.45E-01	8.88E-03	2.35E-01	6.28E-04	2.16E-05	1.76E-05	2.25E-04	2.44E-01
7.19E-03	2.07E-01	6.16E-04	2.06E-05	1.96E-04	1.96E-04	2.15E-01	7.19E-03	2.07E-01	6.16E-04	2.06E-05	1.72E-05	1.96E-04	2.15E-01
5.76E-03	1.71E-01	6.21E-04	2.07E-05	1.97E-04	1.97E-04	1.77E-01	5.76E-03	1.71E-01	6.21E-04	2.07E-05	1.73E-05	1.97E-04	1.77E-01
4.02E-03	1.09E-01	5.48E-04	1.88E-05	1.68E-04	1.68E-04	1.13E-01	4.02E-03	1.09E-01	5.48E-04	1.88E-05	1.61E-05	1.68E-04	1.13E-01
9.46E-03	2.65E-01	5.68E-04	1.92E-05	1.76E-04	1.76E-04	2.75E-01	9.46E-03	2.65E-01	5.68E-04	1.92E-05	1.64E-05	1.76E-04	2.75E-01
7.22E-03	1.81E-01	5.90E-04	1.97E-05	1.84E-04	1.84E-04	1.89E-01	7.22E-03	1.81E-01	5.90E-04	1.97E-05	1.67E-05	1.84E-04	1.89E-01
6.97E-03	1.56E-01	5.91E-04	1.96E-05	1.85E-04	1.85E-04	1.64E-01	6.97E-03	1.56E-01	5.91E-04	1.96E-05	1.66E-05	1.85E-04	1.64E-01
9.10E-03	1.80E-01	5.79E-04	1.93E-05	1.82E-04	1.82E-04	1.90E-01	9.10E-03	1.80E-01	5.79E-04	1.93E-05	1.63E-05	1.82E-04	1.89E-01
1.30E-02	2.05E-01	5.00E-04	1.67E-05	1.62E-04	1.62E-04	2.18E-01	1.30E-02	2.05E-01	5.00E-04	1.67E-05	1.41E-05	1.62E-04	2.18E-01
2.80E-02	3.91E-01	4.94E-04	1.66E-05	1.60E-04	1.60E-04	4.20E-01	2.80E-02	3.91E-01	4.94E-04	1.66E-05	1.41E-05	1.60E-04	4.20E-01
2.84E-02	3.61E-01	5.03E-04	1.68E-05	1.62E-04	1.62E-04	3.90E-01	2.84E-02	3.61E-01	5.03E-04	1.68E-05	1.43E-05	1.62E-04	3.90E-01
2.89E-02	4.70E-01	5.11E-04	1.71E-05	1.64E-04	1.64E-04	5.00E-01	2.89E-02	4.70E-01	5.11E-04	1.71E-05	1.45E-05	1.64E-04	5.00E-01
2.95E-02	4.02E-01	5.14E-04	1.72E-05	1.65E-04	1.65E-04	4.32E-01	2.95E-02	4.02E-01	5.14E-04	1.72E-05	1.46E-05	1.65E-04	4.32E-01
2.96E-02	4.65E-01	5.14E-04	1.73E-05	1.64E-04	1.64E-04	4.96E-01	2.96E-02	4.65E-01	5.14E-04	1.73E-05	1.47E-05	1.64E-04	4.96E-01
3.02E-02	4.64E-01	5.19E-04	1.75E-05	1.64E-04	1.64E-04	4.95E-01	3.02E-02	4.64E-01	5.19E-04	1.75E-05	1.49E-05	1.64E-04	4.95E-01
3.12E-02	4.68E-01	5.30E-04	1.78E-05	1.67E-04	1.67E-04	5.00E-01	3.12E-02	4.68E-01	5.30E-04	1.78E-05	1.52E-05	1.67E-04	5.00E-01
3.18E-02	4.67E-01	5.43E-04	1.82E-05	1.71E-04	1.71E-04	5.00E-01	3.18E-02	4.67E-01	5.43E-04	1.82E-05	1.55E-05	1.71E-04	5.00E-01
2.68E-02	4.50E-01	5.61E-04	1.88E-05	1.76E-04	1.76E-04	4.78E-01	2.68E-02	4.50E-01	5.61E-04	1.88E-05	1.59E-05	1.76E-04	4.78E-01
2.79E-02	4.61E-01	5.65E-04	1.90E-05	1.78E-04	1.78E-04	4.90E-01	2.79E-02	4.61E-01	5.65E-04	1.90E-05	1.61E-05	1.78E-04	4.89E-01
2.32E-02	3.88E-01	5.63E-04	1.91E-05	1.79E-04	1.79E-04	4.12E-01	2.32E-02	3.88E-01	5.63E-04	1.91E-05	1.62E-05	1.79E-04	4.12E-01
2.67E-02	4.30E-01	5.78E-04	1.95E-05	1.85E-04	1.85E-04	4.57E-01	2.67E-02	4.30E-01	5.78E-04	1.95E-05	1.65E-05	1.85E-04	4.57E-01
3.29E-02	5.14E-01	5.89E-04	2.00E-05	1.95E-04	1.95E-04	5.48E-01	3.29E-02	5.14E-01	5.89E-04	2.00E-05	1.68E-05	1.95E-04	5.48E-01
3.02E-02	4.93E-01	6.01E-04	2.05E-05	2.05E-04	2.05E-04	5.24E-01	3.02E-02	4.93E-01	6.01E-04	2.05E-05	1.70E-05	2.05E-04	5.24E-01
3.02E-02	4.99E-01	6.08E-04	2.08E-05	2.14E-04	2.14E-04	5.31E-01	3.02E-02	4.99E-01	6.08E-04	2.08E-05	1.71E-05	2.14E-04	5.30E-01
3.16E-02	5.63E-01	5.97E-04	2.06E-05	2.13E-04	2.13E-04	5.95E-01	3.16E-02	5.63E-01	5.97E-04	2.06E-05	1.70E-05	2.13E-04	5.95E-01
3.12E-02	5.86E-01	5.93E-04	2.06E-05	2.17E-04	2.17E-04	6.18E-01	3.12E-02	5.86E-01	5.93E-04	2.06E-05	1.71E-05	2.17E-04	6.18E-01
4.09E-02	5.46E-01	5.95E-04	2.11E-05	2.36E-04	2.36E-04	5.88E-01	4.09E-02	5.46E-01	5.95E-04	2.11E-05	1.74E-05	2.36E-04	5.87E-01
4.07E-02	5.82E-01	6.02E-04	2.14E-05	2.46E-04	2.46E-04	6.24E-01	4.07E-02	5.82E-01	6.02E-04	2.14E-05	1.75E-05	2.46E-04	6.24E-01
3.74E-02	4.54E-01	6.12E-04	2.18E-05	2.56E-04	2.56E-04	4.92E-01	3.74E-02	4.54E-01	6.12E-04	2.18E-05	1.78E-05	2.56E-04	4.92E-01
3.74E-02	4.76E-01	6.18E-04	2.21E-05	2.63E-04	2.63E-04	5.15E-01	3.74E-02	4.76E-01	6.18E-04	2.21E-05	1.80E-05	2.63E-04	5.15E-01
3.73E-02	5.17E-01	6.33E-04	2.28E-05	2.78E-04	2.78E-04	5.56E-01	3.73E-02	5.17E-01	6.33E-04	2.28E-05	1.83E-05	2.78E-04	5.56E-01
3.78E-02	4.86E-01	6.37E-04	2.29E-05	2.82E-04	2.82E-04	5.25E-01	3.78E-02	4.86E-01	6.37E-04	2.29E-05	1.84E-05	2.82E-04	5.24E-01
3.76E-02	4.77E-01	6.46E-04	2.32E-05	2.89E-04	2.89E-04	5.15E-01	3.76E-02	4.77E-01	6.46E-04	2.32E-05	1.86E-05	2.89E-04	5.15E-01
3.77E-02	4.64E-01	6.52E-04	2.34E-05	2.93E-04	2.93E-04	5.03E-01	3.77E-02	4.64E-01	6.52E-04	2.34E-05	1.88E-05	2.93E-04	5.03E-01
3.54E-02	4.33E-01	6.47E-04	2.32E-05	2.89E-04	2.89E-04	4.70E-01	3.54E-02	4.33E-01	6.47E-04	2.32E-05	1.88E-05	2.89E-04	4.70E-01
3.76E-02	4.21E-01	6.70E-04	2.40E-05	3.06E-04	3.06E-04	4.60E-01	3.76E-02	4.21E-01	6.70E-04	2.40E-05	1.91E-05	3.06E-04	4.60E-01
3.75E-02	4.29E-01	6.77E-04	2.41E-05	3.11E-04	3.11E-04	4.68E-01	3.75E-02	4.29E-01	6.77E-04	2.41E-05	1.92E-05	3.11E-04	4.67E-01
3.87E-02	4.10E-01	6.97E-04	2.48E-05	3.24E-04	3.24E-04	4.51E-01	3.87E-02	4.10E-01	6.97E-04	2.48E-05	1.94E-05	3.24E-04	4.50E-01
3.85E-02	4.08E-01	7.07E-04	2.50E-05	3.28E-04	3.28E-04	4.48E-01	3.85E-02	4.08E-01	7.07E-04	2.50E-05	1.96E-05	3.28E-04	4.48E-01
2.53E-02	5.14E-01	7.47E-04	2.57E-05	3.42E-04	3.42E-04	5.41E-01	2.53E-02	5.14E-01	7.47E-04	2.57E-05	1.98E-05	3.42E-04	5.40E-01
2.60E-02	5.50E-01	7.48E-04	2.53E-05	3.35E-04	3.35E-04	5.78E-01	2.60E-02	5.50E-01	7.48E-04	2.53E-05	1.99E-05	3.35E-04	5.78E-01
2.61E-02	5.35E-01	7.72E-04	2.59E-05	3.43E-04	3.43E-04	5.62E-01	2.61E-02	5.35E-01	7.72E-04	2.59E-05	2.00E-05	3.43E-04	5.62E-01
2.63E-02	5.56E-01	7.81E-04	2.57E-05	3.39E-04	3.39E-04	5.84E-01	2.63E-02	5.56E-01	7.81E-04	2.57E-05	2.01E-05	3.39E-04	5.84E-01
2.64E-02	4.97E-01	7.92E-04	2.56E-05	3.35E-04	3.35E-04	5.25E-01	2.64E-02	4.97E-01	7.92E-04	2.56E-05	2.02E-05	3.35E-04	5.25E-01
2.66E-02	5.00E-01	8.17E-04	2.60E-05	3.38E-04	3.38E-04	5.28E-01	2.66E-02	5.00E-01	8.17E-04	2.60E-05	2.03E-05	3.38E-04	5.27E-01
2.67E-02	4.98E-01	8.45E-04	2.64E-05	3.43E-04	3.43E-04	5.26E-01	2.67E-02	4.98E-01	8.45E-04	2.64E-05	2.05E-05	3.43E-04	5.26E-01

2.67E-02	4.95E-01	8.76E-04	2.69E-05	3.47E-04	3.47E-04	5.23E-01	2.67E-02	4.95E-01	8.76E-04	2.69E-05	2.07E-05	3.47E-04	5.23E-01
2.05E-02	4.54E-01	9.59E-04	2.81E-05	3.55E-04	3.55E-04	4.76E-01	2.05E-02	4.54E-01	9.59E-04	2.81E-05	2.10E-05	3.55E-04	4.76E-01
2.02E-02	4.51E-01	1.00E-03	2.88E-05	3.59E-04	3.59E-04	4.73E-01	2.02E-02	4.51E-01	1.00E-03	2.88E-05	2.12E-05	3.59E-04	4.72E-01
2.00E-02	4.46E-01	1.05E-03	2.96E-05	3.64E-04	3.64E-04	4.68E-01	2.00E-02	4.46E-01	1.05E-03	2.96E-05	2.15E-05	3.64E-04	4.68E-01
1.96E-02	4.36E-01	1.10E-03	3.05E-05	3.71E-04	3.71E-04	4.57E-01	1.96E-02	4.36E-01	1.10E-03	3.05E-05	2.19E-05	3.71E-04	4.57E-01
1.91E-02	4.22E-01	1.15E-03	3.15E-05	3.79E-04	3.79E-04	4.43E-01	1.91E-02	4.22E-01	1.15E-03	3.15E-05	2.28E-05	3.79E-04	4.42E-01
1.93E-02	4.37E-01	1.19E-03	3.22E-05	3.78E-04	3.78E-04	4.58E-01	1.93E-02	4.37E-01	1.19E-03	3.22E-05	2.28E-05	3.78E-04	4.58E-01
1.10E-02	2.77E-01	1.26E-03	3.31E-05	3.79E-04	3.79E-04	2.90E-01	1.10E-02	2.77E-01	1.26E-03	3.31E-05	2.35E-05	3.79E-04	2.89E-01
7.77E-03	2.11E-01	1.31E-03	3.40E-05	3.75E-04	3.75E-04	2.21E-01	7.77E-03	2.11E-01	1.31E-03	3.40E-05	2.41E-05	3.75E-04	2.20E-01
7.86E-03	2.14E-01	1.34E-03	3.49E-05	3.78E-04	3.78E-04	2.24E-01	7.86E-03	2.14E-01	1.34E-03	3.49E-05	2.47E-05	3.78E-04	2.24E-01
7.92E-03	2.19E-01	1.37E-03	3.56E-05	3.76E-04	3.76E-04	2.29E-01	7.92E-03	2.19E-01	1.37E-03	3.56E-05	2.53E-05	3.76E-04	2.28E-01
7.91E-03	2.20E-01	1.40E-03	3.63E-05	3.72E-04	3.72E-04	2.30E-01	7.91E-03	2.20E-01	1.40E-03	3.63E-05	2.53E-05	3.72E-04	2.29E-01
7.92E-03	2.20E-01	1.42E-03	3.72E-05	3.70E-04	3.70E-04	2.30E-01	7.92E-03	2.20E-01	1.42E-03	3.72E-05	2.60E-05	3.70E-04	2.30E-01
7.98E-03	2.22E-01	1.45E-03	3.83E-05	3.72E-04	3.72E-04	2.32E-01	7.98E-03	2.22E-01	1.45E-03	3.83E-05	2.68E-05	3.72E-04	2.32E-01
7.59E-03	2.14E-01	1.50E-03	4.05E-05	3.72E-04	3.72E-04	2.23E-01	7.59E-03	2.14E-01	1.50E-03	4.05E-05	2.89E-05	3.72E-04	2.23E-01
7.27E-03	2.06E-01	1.52E-03	4.19E-05	3.75E-04	3.75E-04	2.16E-01	7.27E-03	2.06E-01	1.52E-03	4.19E-05	3.02E-05	3.75E-04	2.15E-01
1.00E-02	2.69E-01	1.57E-03	4.29E-05	3.87E-04	3.87E-04	2.82E-01	1.00E-02	2.69E-01	1.57E-03	4.29E-05	3.06E-05	3.87E-04	2.81E-01
1.80E-02	4.30E-01	1.63E-03	4.40E-05	4.07E-04	4.07E-04	4.51E-01	1.80E-02	4.30E-01	1.63E-03	4.40E-05	3.12E-05	4.07E-04	4.50E-01
1.80E-02	4.29E-01	1.66E-03	4.54E-05	4.15E-04	4.15E-04	4.50E-01	1.80E-02	4.29E-01	1.66E-03	4.54E-05	3.23E-05	4.15E-04	4.49E-01
1.80E-02	4.27E-01	1.69E-03	4.68E-05	4.23E-04	4.23E-04	4.48E-01	1.80E-02	4.27E-01	1.69E-03	4.68E-05	3.35E-05	4.23E-04	4.48E-01
1.80E-02	4.23E-01	1.71E-03	4.82E-05	4.30E-04	4.30E-04	4.44E-01	1.80E-02	4.23E-01	1.71E-03	4.82E-05	3.48E-05	4.30E-04	4.43E-01
1.82E-02	4.28E-01	1.74E-03	4.96E-05	4.35E-04	4.35E-04	4.49E-01	1.82E-02	4.28E-01	1.74E-03	4.96E-05	3.61E-05	4.35E-04	4.48E-01
1.85E-02	4.50E-01	1.75E-03	5.10E-05	4.37E-04	4.37E-04	4.71E-01	1.85E-02	4.50E-01	1.75E-03	5.10E-05	3.75E-05	4.37E-04	4.71E-01
1.83E-02	4.60E-01	1.78E-03	5.37E-05	4.46E-04	4.46E-04	4.81E-01	1.83E-02	4.60E-01	1.78E-03	5.37E-05	4.04E-05	4.46E-04	4.80E-01
1.80E-02	4.55E-01	1.79E-03	5.51E-05	4.52E-04	4.52E-04	4.76E-01	1.80E-02	4.55E-01	1.79E-03	5.51E-05	4.18E-05	4.52E-04	4.75E-01
1.75E-02	4.50E-01	1.82E-03	5.78E-05	4.63E-04	4.63E-04	4.70E-01	1.75E-02	4.50E-01	1.82E-03	5.78E-05	4.48E-05	4.63E-04	4.70E-01
1.74E-02	4.52E-01	1.83E-03	5.92E-05	4.68E-04	4.68E-04	4.72E-01	1.74E-02	4.52E-01	1.83E-03	5.92E-05	4.63E-05	4.68E-04	4.72E-01
1.73E-02	4.51E-01	1.85E-03	6.05E-05	4.72E-04	4.72E-04	4.71E-01	1.73E-02	4.51E-01	1.85E-03	6.05E-05	4.78E-05	4.72E-04	4.71E-01
1.39E-02	3.39E-01	1.87E-03	6.37E-05	4.76E-04	4.76E-04	3.56E-01	1.39E-02	3.39E-01	1.87E-03	6.37E-05	5.13E-05	4.76E-04	3.55E-01
1.73E-02	3.75E-01	1.93E-03	6.53E-05	4.84E-04	4.84E-04	3.95E-01	1.73E-02	3.75E-01	1.93E-03	6.53E-05	5.25E-05	4.84E-04	3.95E-01
1.98E-02	4.16E-01	1.98E-03	6.71E-05	4.92E-04	4.92E-04	4.39E-01	1.98E-02	4.16E-01	1.98E-03	6.71E-05	5.38E-05	4.92E-04	4.38E-01
1.90E-02	4.24E-01	2.04E-03	6.90E-05	4.99E-04	4.99E-04	4.46E-01	1.90E-02	4.24E-01	2.04E-03	6.90E-05	5.51E-05	4.99E-04	4.45E-01
1.88E-02	4.43E-01	2.10E-03	7.10E-05	5.07E-04	5.07E-04	4.65E-01	1.88E-02	4.43E-01	2.10E-03	7.10E-05	5.65E-05	5.07E-04	4.65E-01
1.88E-02	4.45E-01	2.16E-03	7.32E-05	5.14E-04	5.14E-04	4.67E-01	1.88E-02	4.45E-01	2.16E-03	7.32E-05	5.80E-05	5.14E-04	4.67E-01
1.86E-02	4.40E-01	2.22E-03	7.54E-05	5.21E-04	5.21E-04	4.62E-01	1.86E-02	4.40E-01	2.22E-03	7.54E-05	5.95E-05	5.21E-04	4.62E-01
1.88E-02	4.40E-01	2.29E-03	7.78E-05	5.29E-04	5.29E-04	4.62E-01	1.88E-02	4.40E-01	2.29E-03	7.78E-05	6.11E-05	5.29E-04	4.62E-01
1.87E-02	4.37E-01	2.35E-03	8.04E-05	5.34E-04	5.34E-04	4.59E-01	1.87E-02	4.37E-01	2.35E-03	8.04E-05	6.28E-05	5.34E-04	4.59E-01
1.88E-02	4.38E-01	2.43E-03	8.31E-05	5.45E-04	5.45E-04	4.61E-01	1.88E-02	4.38E-01	2.43E-03	8.31E-05	6.45E-05	5.45E-04	4.60E-01
1.91E-02	4.39E-01	2.53E-03	8.58E-05	5.61E-04	5.61E-04	4.62E-01	1.91E-02	4.39E-01	2.53E-03	8.58E-05	6.62E-05	5.61E-04	4.61E-01
1.92E-02	4.36E-01	2.62E-03	8.86E-05	5.79E-04	5.79E-04	4.59E-01	1.92E-02	4.36E-01	2.62E-03	8.86E-05	6.80E-05	5.79E-04	4.59E-01
1.94E-02	4.14E-01	2.71E-03	9.14E-05	5.99E-04	5.99E-04	4.37E-01	1.94E-02	4.14E-01	2.71E-03	9.14E-05	6.97E-05	5.99E-04	4.37E-01
1.95E-02	4.22E-01	2.81E-03	9.46E-05	6.15E-04	6.15E-04	4.45E-01	1.95E-02	4.22E-01	2.81E-03	9.46E-05	7.16E-05	6.15E-04	4.45E-01
1.95E-02	4.06E-01	2.90E-03	9.77E-05	6.36E-04	6.36E-04	4.29E-01	1.95E-02	4.06E-01	2.90E-03	9.77E-05	7.35E-05	6.36E-04	4.29E-01
1.98E-02	4.20E-01	3.01E-03	1.02E-04	6.51E-04	6.51E-04	4.44E-01	1.98E-02	4.20E-01	3.01E-03	1.02E-04	7.59E-05	6.51E-04	4.44E-01
2.02E-02	4.27E-01	3.29E-03	1.12E-04	6.98E-04	6.98E-04	4.52E-01	2.02E-02	4.27E-01	3.29E-03	1.12E-04	8.15E-05	6.98E-04	4.52E-01
2.01E-02	4.25E-01	3.42E-03	1.16E-04	7.20E-04	7.20E-04	4.50E-01	2.01E-02	4.25E-01	3.42E-03	1.16E-04	8.41E-05	7.20E-04	4.49E-01
2.02E-02	4.30E-01	3.57E-03	1.21E-04	7.42E-04	7.42E-04	4.55E-01	2.02E-02	4.30E-01	3.57E-03	1.21E-04	8.69E-05	7.42E-04	4.54E-01
2.02E-02	4.26E-01	3.75E-03	1.28E-04	7.61E-04	7.61E-04	4.52E-01	2.02E-02	4.26E-01	3.75E-03	1.28E-04	9.00E-05	7.61E-04	4.51E-01
1.97E-02	3.96E-01	3.95E-03	1.35E-04	7.83E-04	7.83E-04	4.22E-01	1.97E-02	3.96E-01	3.95E-03	1.35E-04	9.31E-05	7.83E-04	4.21E-01
1.61E-02	3.70E-01	4.54E-03	1.55E-04	8.28E-04	8.28E-04	3.93E-01	1.61E-02	3.70E-01	4.54E-03	1.55E-04	9.92E-05	8.28E-04	3.92E-01
1.63E-02	3.75E-01	4.94E-03	1.68E-04	8.59E-04	8.59E-04	3.98E-01	1.63E-02	3.75E-01	4.94E-03	1.68E-04	1.01E-04	8.59E-04	3.97E-01
1.55E-02	3.47E-01	5.43E-03	1.86E-04	8.94E-04	8.94E-04	3.70E-01	1.55E-02	3.47E-01	5.43E-03	1.86E-04	1.03E-04	8.94E-04	3.69E-01
1.35E-02	3.13E-01	6.10E-03	2.10E-04	9.26E-04	9.26E-04	3.34E-01	1.35E-02	3.13E-01	6.10E-03	2.10E-04	1.05E-04	9.26E-04	3.33E-01
1.19E-02	2.61E-01	8.40E-03	2.50E-04	9.60E-04	9.60E-04	2.83E-01	1.19E-02	2.61E-01	8.40E-03	2.50E-04	1.07E-04	9.60E-04	2.83E-01

1.08E-02	7.25E-02	1.40E-02	3.99E-04	9.85E-04	9.85E-04	9.96E-02	1.08E-02	7.25E-02	1.40E-02	3.99E-04	1.09E-04	9.85E-04	9.87E-02
9.65E-03	3.74E-02	1.45E-02	1.22E-03	1.01E-03	1.01E-03	6.48E-02	9.65E-03	3.74E-02	1.45E-02	1.22E-03	1.12E-04	1.01E-03	6.39E-02
8.76E-03	2.69E-02	1.65E-02	1.52E-03	1.03E-03	1.03E-03	5.57E-02	8.76E-03	2.69E-02	1.65E-02	1.52E-03	1.16E-04	1.03E-03	5.48E-02
8.10E-03	2.15E-02	2.13E-02	1.54E-03	1.05E-03	1.05E-03	5.45E-02	8.10E-03	2.15E-02	2.13E-02	1.54E-03	1.20E-04	1.05E-03	5.36E-02
4.53E-03	1.56E-02	2.59E-02	1.04E-03	1.01E-03	1.01E-03	4.91E-02	4.53E-03	1.56E-02	2.59E-02	1.04E-03	1.41E-04	1.01E-03	4.82E-02
3.61E-03	1.58E-02	2.34E-02	9.02E-04	1.02E-03	1.02E-03	4.57E-02	3.61E-03	1.58E-02	2.34E-02	9.02E-04	1.52E-04	1.02E-03	4.49E-02
3.00E-03	1.57E-02	2.11E-02	7.96E-04	1.01E-03	1.01E-03	4.27E-02	3.00E-03	1.57E-02	2.11E-02	7.96E-04	1.66E-04	1.01E-03	4.18E-02
3.08E-03	1.38E-02	2.50E-02	8.01E-04	1.06E-03	1.06E-03	4.48E-02	3.08E-03	1.38E-02	2.50E-02	8.01E-04	1.81E-04	1.06E-03	4.39E-02
4.07E-03	1.24E-02	3.14E-02	8.88E-04	1.13E-03	1.13E-03	5.10E-02	4.07E-03	1.24E-02	3.14E-02	8.88E-04	1.82E-04	1.13E-03	5.01E-02
6.53E-03	1.03E-02	3.68E-02	9.88E-04	1.17E-03	1.17E-03	5.69E-02	6.53E-03	1.03E-02	3.68E-02	9.88E-04	2.03E-04	1.17E-03	5.60E-02
6.80E-03	9.60E-03	3.55E-02	9.95E-04	1.18E-03	1.18E-03	5.53E-02	6.80E-03	9.60E-03	3.55E-02	9.95E-04	2.17E-04	1.18E-03	5.43E-02
7.10E-03	8.94E-03	3.41E-02	1.02E-03	1.20E-03	1.20E-03	5.35E-02	7.10E-03	8.94E-03	3.41E-02	1.02E-03	2.32E-04	1.20E-03	5.26E-02
7.52E-03	8.34E-03	3.29E-02	1.07E-03	1.26E-03	1.26E-03	5.23E-02	7.52E-03	8.34E-03	3.29E-02	1.07E-03	2.48E-04	1.26E-03	5.13E-02
8.00E-03	7.76E-03	3.20E-02	1.15E-03	1.34E-03	1.34E-03	5.16E-02	8.00E-03	7.76E-03	3.20E-02	1.15E-03	2.60E-04	1.34E-03	5.05E-02
8.51E-03	7.25E-03	3.18E-02	1.27E-03	1.44E-03	1.44E-03	5.17E-02	8.51E-03	7.25E-03	3.18E-02	1.27E-03	2.69E-04	1.44E-03	5.05E-02
9.32E-03	6.88E-03	3.29E-02	1.53E-03	1.59E-03	1.59E-03	5.38E-02	9.32E-03	6.88E-03	3.29E-02	1.53E-03	2.83E-04	1.59E-03	5.25E-02
9.57E-03	6.47E-03	3.49E-02	2.64E-03	1.88E-03	1.88E-03	5.73E-02	9.57E-03	6.47E-03	3.49E-02	2.64E-03	3.24E-04	1.88E-03	5.57E-02
9.71E-03	6.49E-03	3.66E-02	3.43E-03	2.07E-03	2.07E-03	6.03E-02	9.71E-03	6.49E-03	3.66E-02	3.43E-03	3.66E-04	2.07E-03	5.86E-02
9.53E-03	6.39E-03	3.67E-02	4.14E-03	2.20E-03	2.20E-03	6.12E-02	9.53E-03	6.39E-03	3.67E-02	4.14E-03	3.93E-04	2.20E-03	5.94E-02
9.48E-03	6.39E-03	3.81E-02	5.35E-03	2.40E-03	2.40E-03	6.42E-02	9.48E-03	6.39E-03	3.81E-02	5.35E-03	4.42E-04	2.40E-03	6.22E-02
9.12E-03	6.27E-03	3.77E-02	6.45E-03	2.52E-03	2.52E-03	6.46E-02	9.12E-03	6.27E-03	3.77E-02	6.45E-03	4.74E-04	2.52E-03	6.25E-02
9.56E-03	6.26E-03	4.05E-02	7.94E-03	2.95E-03	2.95E-03	7.02E-02	9.56E-03	6.26E-03	4.05E-02	7.94E-03	6.19E-04	2.95E-03	6.79E-02
8.17E-03	6.12E-03	4.46E-02	7.37E-03	4.04E-03	4.04E-03	7.43E-02	8.17E-03	6.12E-03	4.46E-02	7.37E-03	1.30E-03	4.04E-03	7.16E-02
7.61E-03	6.09E-03	4.93E-02	7.41E-03	6.42E-03	6.42E-03	8.32E-02	7.61E-03	6.09E-03	4.93E-02	7.41E-03	3.24E-03	6.42E-03	8.01E-02
7.25E-03	5.99E-03	5.25E-02	7.39E-03	8.67E-03	8.67E-03	9.04E-02	7.25E-03	5.99E-03	5.25E-02	7.39E-03	5.11E-03	8.67E-03	8.69E-02
6.88E-03	5.85E-03	5.42E-02	7.30E-03	1.02E-02	1.02E-02	9.45E-02	6.88E-03	5.85E-03	5.42E-02	7.30E-03	6.32E-03	1.02E-02	9.07E-02
6.41E-03	5.68E-03	5.37E-02	7.08E-03	1.06E-02	1.06E-02	9.42E-02	6.41E-03	5.68E-03	5.37E-02	7.08E-03	6.68E-03	1.06E-02	9.02E-02
6.34E-03	5.60E-03	5.69E-02	7.22E-03	1.20E-02	1.20E-02	1.00E-01	6.34E-03	5.60E-03	5.69E-02	7.22E-03	7.68E-03	1.20E-02	9.57E-02
6.05E-03	5.48E-03	5.79E-02	7.18E-03	1.26E-02	1.26E-02	1.02E-01	6.05E-03	5.48E-03	5.79E-02	7.18E-03	8.06E-03	1.26E-02	9.72E-02
5.85E-03	5.38E-03	5.98E-02	7.21E-03	1.35E-02	1.35E-02	1.05E-01	5.85E-03	5.38E-03	5.98E-02	7.21E-03	8.61E-03	1.35E-02	1.00E-01
5.60E-03	5.27E-03	6.05E-02	7.15E-03	1.39E-02	1.39E-02	1.06E-01	5.60E-03	5.27E-03	6.05E-02	7.15E-03	8.81E-03	1.39E-02	1.01E-01
5.40E-03	5.17E-03	6.14E-02	7.12E-03	1.44E-02	1.44E-02	1.08E-01	5.40E-03	5.17E-03	6.14E-02	7.12E-03	9.02E-03	1.44E-02	1.03E-01
5.30E-03	5.10E-03	6.40E-02	7.20E-03	1.53E-02	1.53E-02	1.12E-01	5.30E-03	5.10E-03	6.40E-02	7.20E-03	9.60E-03	1.53E-02	1.07E-01
5.18E-03	5.03E-03	6.65E-02	7.25E-03	1.63E-02	1.63E-02	1.17E-01	5.18E-03	5.03E-03	6.65E-02	7.25E-03	1.01E-02	1.63E-02	1.10E-01
5.00E-03	4.94E-03	6.74E-02	7.23E-03	1.69E-02	1.69E-02	1.18E-01	5.00E-03	4.94E-03	6.74E-02	7.23E-03	1.04E-02	1.69E-02	1.12E-01
4.80E-03	4.85E-03	6.73E-02	7.15E-03	1.68E-02	1.68E-02	1.18E-01	4.80E-03	4.85E-03	6.73E-02	7.15E-03	1.02E-02	1.68E-02	1.11E-01
4.68E-03	4.78E-03	6.79E-02	7.16E-03	1.74E-02	1.74E-02	1.19E-01	4.68E-03	4.78E-03	6.79E-02	7.16E-03	1.04E-02	1.74E-02	1.12E-01
4.55E-03	4.70E-03	6.79E-02	7.11E-03	1.74E-02	1.74E-02	1.19E-01	4.55E-03	4.70E-03	6.79E-02	7.11E-03	1.02E-02	1.74E-02	1.12E-01
4.38E-03	4.62E-03	6.69E-02	7.02E-03	1.72E-02	1.72E-02	1.17E-01	4.38E-03	4.62E-03	6.69E-02	7.02E-03	9.93E-03	1.72E-02	1.10E-01
4.39E-03	4.59E-03	7.01E-02	7.16E-03	1.84E-02	1.84E-02	1.23E-01	4.39E-03	4.59E-03	7.01E-02	7.16E-03	1.05E-02	1.84E-02	1.15E-01
4.20E-03	4.51E-03	6.84E-02	7.02E-03	1.80E-02	1.80E-02	1.20E-01	4.20E-03	4.51E-03	6.84E-02	7.02E-03	1.01E-02	1.80E-02	1.12E-01
3.95E-03	4.39E-03	6.43E-02	6.69E-03	1.68E-02	1.68E-02	1.13E-01	3.95E-03	4.39E-03	6.43E-02	6.69E-03	9.18E-03	1.68E-02	1.05E-01
3.84E-03	4.29E-03	6.12E-02	6.62E-03	1.59E-02	1.59E-02	1.08E-01	3.84E-03	4.29E-03	6.12E-02	6.62E-03	8.43E-03	1.59E-02	1.00E-01
3.88E-03	4.26E-03	6.25E-02	6.86E-03	1.64E-02	1.64E-02	1.10E-01	3.88E-03	4.26E-03	6.25E-02	6.86E-03	8.65E-03	1.64E-02	1.03E-01
3.82E-03	4.22E-03	6.28E-02	6.92E-03	1.65E-02	1.65E-02	1.11E-01	3.82E-03	4.22E-03	6.28E-02	6.92E-03	8.62E-03	1.65E-02	1.03E-01
3.80E-03	4.20E-03	6.44E-02	7.03E-03	1.70E-02	1.70E-02	1.14E-01	3.80E-03	4.20E-03	6.44E-02	7.03E-03	8.88E-03	1.70E-02	1.05E-01
3.76E-03	4.19E-03	6.62E-02	7.09E-03	1.76E-02	1.76E-02	1.16E-01	3.76E-03	4.19E-03	6.62E-02	7.09E-03	9.15E-03	1.76E-02	1.08E-01
3.65E-03	4.20E-03	7.11E-02	7.14E-03	1.88E-02	1.88E-02	1.24E-01	3.65E-03	4.20E-03	7.11E-02	7.14E-03	9.85E-03	1.88E-02	1.15E-01
3.62E-03	4.21E-03	7.29E-02	7.21E-03	1.94E-02	1.94E-02	1.27E-01	3.62E-03	4.21E-03	7.29E-02	7.21E-03	1.02E-02	1.94E-02	1.17E-01
3.59E-03	4.22E-03	7.53E-02	7.20E-03	1.98E-02	1.98E-02	1.30E-01	3.59E-03	4.22E-03	7.53E-02	7.20E-03	1.03E-02	1.98E-02	1.20E-01
3.56E-03	4.24E-03	7.72E-02	7.18E-03	2.00E-02	2.00E-02	1.32E-01	3.56E-03	4.24E-03	7.72E-02	7.18E-03	1.04E-02	2.00E-02	1.23E-01
3.55E-03	4.26E-03	7.89E-02	7.11E-03	2.01E-02	2.01E-02	1.34E-01	3.55E-03	4.26E-03	7.89E-02	7.11E-03	1.03E-02	2.01E-02	1.24E-01
2.20E-03	4.27E-03	6.57E-02	3.86E-03	1.47E-02	1.47E-02	1.05E-01	2.20E-03	4.27E-03	6.57E-02	3.86E-03	5.87E-03	1.47E-02	9.66E-02
1.98E-03	4.26E-03	6.25E-02	3.37E-03	1.37E-02	1.37E-02	9.95E-02	1.98E-03	4.26E-03	6.25E-02	3.37E-03	5.12E-03	1.37E-02	9.09E-02

1.81E-03	4.26E-03	5.98E-02	2.99E-03	1.29E-02	1.29E-02	9.46E-02	1.81E-03	4.26E-03	5.98E-02	2.99E-03	4.50E-03	1.29E-02	8.62E-02
1.68E-03	4.29E-03	5.80E-02	2.57E-03	1.20E-02	1.20E-02	9.05E-02	1.68E-03	4.29E-03	5.80E-02	2.57E-03	3.65E-03	1.20E-02	8.22E-02
1.60E-03	4.31E-03	5.61E-02	2.40E-03	1.16E-02	1.16E-02	8.75E-02	1.60E-03	4.31E-03	5.61E-02	2.40E-03	3.34E-03	1.16E-02	7.93E-02
1.42E-03	4.29E-03	5.12E-02	2.20E-03	1.09E-02	1.09E-02	8.10E-02	1.42E-03	4.29E-03	5.12E-02	2.20E-03	3.14E-03	1.09E-02	7.32E-02
1.30E-03	4.28E-03	4.72E-02	2.02E-03	1.03E-02	1.03E-02	7.54E-02	1.30E-03	4.28E-03	4.72E-02	2.02E-03	2.92E-03	1.03E-02	6.80E-02
1.31E-03	4.32E-03	4.80E-02	1.97E-03	1.03E-02	1.03E-02	7.62E-02	1.31E-03	4.32E-03	4.80E-02	1.97E-03	2.76E-03	1.03E-02	6.86E-02
1.36E-03	4.35E-03	4.99E-02	2.01E-03	1.05E-02	1.05E-02	7.87E-02	1.36E-03	4.35E-03	4.99E-02	2.01E-03	2.72E-03	1.05E-02	7.09E-02
1.48E-03	4.49E-03	5.36E-02	1.95E-03	1.01E-02	1.01E-02	8.18E-02	1.48E-03	4.49E-03	5.36E-02	1.95E-03	1.94E-03	1.01E-02	7.36E-02
1.69E-03	4.82E-03	5.81E-02	1.91E-03	1.02E-02	1.02E-02	8.69E-02	1.69E-03	4.82E-03	5.81E-02	1.91E-03	1.20E-03	1.02E-02	7.79E-02
1.83E-03	4.97E-03	6.07E-02	1.95E-03	1.05E-02	1.05E-02	9.05E-02	1.83E-03	4.97E-03	6.07E-02	1.95E-03	1.03E-03	1.05E-02	8.10E-02
2.01E-03	5.16E-03	6.34E-02	2.00E-03	1.09E-02	1.09E-02	9.44E-02	2.01E-03	5.16E-03	6.34E-02	2.00E-03	8.82E-04	1.09E-02	8.43E-02
2.43E-03	5.45E-03	6.91E-02	2.13E-03	1.18E-02	1.18E-02	1.03E-01	2.43E-03	5.45E-03	6.91E-02	2.13E-03	7.10E-04	1.18E-02	9.17E-02
2.76E-03	5.83E-03	7.06E-02	1.89E-03	1.44E-02	1.44E-02	1.10E-01	2.76E-03	5.83E-03	7.06E-02	1.89E-03	6.02E-04	1.44E-02	9.61E-02
2.78E-03	6.07E-03	6.87E-02	1.68E-03	2.44E-02	2.44E-02	1.28E-01	2.78E-03	6.07E-03	6.87E-02	1.68E-03	6.85E-04	2.44E-02	1.04E-01
2.47E-03	6.56E-03	6.02E-02	1.36E-03	3.18E-02	3.18E-02	1.34E-01	2.47E-03	6.56E-03	6.02E-02	1.36E-03	7.36E-04	3.18E-02	1.03E-01
2.26E-03	6.59E-03	5.62E-02	1.27E-03	2.71E-02	2.71E-02	1.20E-01	2.26E-03	6.59E-03	5.62E-02	1.27E-03	6.78E-04	2.71E-02	9.41E-02
2.08E-03	6.63E-03	5.28E-02	1.20E-03	2.35E-02	2.35E-02	1.10E-01	2.08E-03	6.63E-03	5.28E-02	1.20E-03	6.37E-04	2.35E-02	8.68E-02
1.94E-03	6.67E-03	4.97E-02	1.14E-03	2.09E-02	2.09E-02	1.01E-01	1.94E-03	6.67E-03	4.97E-02	1.14E-03	6.08E-04	2.09E-02	8.10E-02
1.99E-03	6.77E-03	5.00E-02	1.13E-03	2.09E-02	2.09E-02	1.02E-01	1.99E-03	6.77E-03	5.00E-02	1.13E-03	5.92E-04	2.09E-02	8.14E-02
2.15E-03	6.72E-03	5.33E-02	1.20E-03	2.36E-02	2.36E-02	1.11E-01	2.15E-03	6.72E-03	5.33E-02	1.20E-03	6.22E-04	2.36E-02	8.76E-02
2.35E-03	6.70E-03	5.70E-02	1.27E-03	2.75E-02	2.75E-02	1.22E-01	2.35E-03	6.70E-03	5.70E-02	1.27E-03	6.67E-04	2.75E-02	9.55E-02
2.59E-03	6.65E-03	6.13E-02	1.36E-03	3.31E-02	3.31E-02	1.38E-01	2.59E-03	6.65E-03	6.13E-02	1.36E-03	7.35E-04	3.31E-02	1.06E-01
2.93E-03	6.13E-03	7.02E-02	1.68E-03	2.61E-02	2.61E-02	1.33E-01	2.93E-03	6.13E-03	7.02E-02	1.68E-03	6.93E-04	2.61E-02	1.08E-01
2.90E-03	5.87E-03	7.23E-02	1.90E-03	1.46E-02	1.46E-02	1.12E-01	2.90E-03	5.87E-03	7.23E-02	1.90E-03	5.89E-04	1.46E-02	9.81E-02
3.74E-03	6.08E-03	7.95E-02	1.90E-03	1.56E-02	1.56E-02	1.22E-01	3.74E-03	6.08E-03	7.95E-02	1.90E-03	5.35E-04	1.56E-02	1.07E-01
3.77E-03	6.39E-03	7.69E-02	1.67E-03	3.99E-02	3.99E-02	1.69E-01	3.77E-03	6.39E-03	7.69E-02	1.67E-03	8.15E-04	3.99E-02	1.29E-01
3.80E-03	6.74E-03	7.43E-02	1.53E-03	4.03E-02	4.03E-02	1.67E-01	3.80E-03	6.74E-03	7.43E-02	1.53E-03	7.82E-04	4.03E-02	1.27E-01
3.70E-03	7.53E-03	6.76E-02	1.38E-03	2.11E-02	2.11E-02	1.22E-01	3.70E-03	7.53E-03	6.76E-02	1.38E-03	4.69E-04	2.11E-02	1.02E-01
3.72E-03	8.46E-03	5.96E-02	1.32E-03	1.80E-02	1.80E-02	1.09E-01	3.72E-03	8.46E-03	5.96E-02	1.32E-03	3.81E-04	1.80E-02	9.14E-02
3.05E-03	8.48E-03	5.26E-02	1.18E-03	1.73E-02	1.73E-02	9.98E-02	3.05E-03	8.48E-03	5.26E-02	1.18E-03	3.80E-04	1.73E-02	8.29E-02
2.58E-03	8.11E-03	4.98E-02	1.10E-03	1.71E-02	1.71E-02	9.58E-02	2.58E-03	8.11E-03	4.98E-02	1.10E-03	4.09E-04	1.71E-02	7.91E-02
2.25E-03	7.78E-03	4.74E-02	1.05E-03	1.70E-02	1.70E-02	9.25E-02	2.25E-03	7.78E-03	4.74E-02	1.05E-03	4.42E-04	1.70E-02	7.59E-02
2.00E-03	7.46E-03	4.52E-02	1.01E-03	1.68E-02	1.68E-02	8.93E-02	2.00E-03	7.46E-03	4.52E-02	1.01E-03	4.74E-04	1.68E-02	7.30E-02
1.65E-03	6.90E-03	4.12E-02	9.52E-04	1.56E-02	1.56E-02	8.20E-02	1.65E-03	6.90E-03	4.12E-02	9.52E-04	5.16E-04	1.56E-02	6.69E-02
1.43E-03	6.32E-03	3.76E-02	8.94E-04	1.40E-02	1.40E-02	7.42E-02	1.43E-03	6.32E-03	3.76E-02	8.94E-04	5.26E-04	1.40E-02	6.07E-02
1.30E-03	6.01E-03	3.43E-02	8.35E-04	1.28E-02	1.28E-02	6.80E-02	1.30E-03	6.01E-03	3.43E-02	8.35E-04	5.15E-04	1.28E-02	5.57E-02
1.25E-03	5.90E-03	3.29E-02	8.08E-04	1.23E-02	1.23E-02	6.55E-02	1.25E-03	5.90E-03	3.29E-02	8.08E-04	5.08E-04	1.23E-02	5.37E-02
1.20E-03	5.79E-03	3.17E-02	7.83E-04	1.19E-02	1.19E-02	6.32E-02	1.20E-03	5.79E-03	3.17E-02	7.83E-04	5.01E-04	1.19E-02	5.18E-02
1.16E-03	5.73E-03	3.05E-02	7.59E-04	1.15E-02	1.15E-02	6.11E-02	1.16E-03	5.73E-03	3.05E-02	7.59E-04	4.93E-04	1.15E-02	5.01E-02
1.13E-03	5.68E-03	2.93E-02	7.37E-04	1.12E-02	1.12E-02	5.92E-02	1.13E-03	5.68E-03	2.93E-02	7.37E-04	4.86E-04	1.12E-02	4.85E-02
1.01E-03	5.34E-03	2.68E-02	6.89E-04	1.02E-02	1.02E-02	5.42E-02	1.01E-03	5.34E-03	2.68E-02	6.89E-04	4.84E-04	1.02E-02	4.45E-02
1.05E-03	5.74E-03	2.62E-02	6.70E-04	1.04E-02	1.04E-02	5.45E-02	1.05E-03	5.74E-03	2.62E-02	6.70E-04	4.51E-04	1.04E-02	4.45E-02
1.10E-03	5.96E-03	2.68E-02	6.81E-04	1.08E-02	1.08E-02	5.61E-02	1.10E-03	5.96E-03	2.68E-02	6.81E-04	4.47E-04	1.08E-02	4.58E-02
1.18E-03	6.10E-03	2.86E-02	7.15E-04	1.13E-02	1.13E-02	5.92E-02	1.18E-03	6.10E-03	2.86E-02	7.15E-04	4.50E-04	1.13E-02	4.83E-02
1.22E-03	6.19E-03	2.98E-02	7.37E-04	1.16E-02	1.16E-02	6.12E-02	1.22E-03	6.19E-03	2.98E-02	7.37E-04	4.55E-04	1.16E-02	5.00E-02
1.27E-03	6.29E-03	3.10E-02	7.61E-04	1.20E-02	1.20E-02	6.34E-02	1.27E-03	6.29E-03	3.10E-02	7.61E-04	4.61E-04	1.20E-02	5.19E-02
1.33E-03	6.41E-03	3.24E-02	7.87E-04	1.24E-02	1.24E-02	6.58E-02	1.33E-03	6.41E-03	3.24E-02	7.87E-04	4.66E-04	1.24E-02	5.39E-02
1.39E-03	6.57E-03	3.39E-02	8.14E-04	1.29E-02	1.29E-02	6.85E-02	1.39E-03	6.57E-03	3.39E-02	8.14E-04	4.71E-04	1.29E-02	5.61E-02
1.54E-03	6.83E-03	3.74E-02	8.73E-04	1.40E-02	1.40E-02	7.45E-02	1.54E-03	6.83E-03	3.74E-02	8.73E-04	4.75E-04	1.40E-02	6.10E-02
1.77E-03	7.42E-03	4.04E-02	9.23E-04	1.51E-02	1.51E-02	8.07E-02	1.77E-03	7.42E-03	4.04E-02	9.23E-04	4.57E-04	1.51E-02	6.61E-02
1.91E-03	7.70E-03	4.18E-02	9.45E-04	1.54E-02	1.54E-02	8.31E-02	1.91E-03	7.70E-03	4.18E-02	9.45E-04	4.41E-04	1.54E-02	6.81E-02
2.32E-03	8.32E-03	4.49E-02	1.01E-03	1.59E-02	1.59E-02	8.83E-02	2.32E-03	8.32E-03	4.49E-02	1.01E-03	3.95E-04	1.59E-02	7.28E-02
2.66E-03	8.76E-03	4.64E-02	1.07E-03	1.62E-02	1.62E-02	9.14E-02	2.66E-03	8.76E-03	4.64E-02	1.07E-03	3.67E-04	1.62E-02	7.55E-02
3.13E-03	9.18E-03	4.84E-02	1.16E-03	1.66E-02	1.66E-02	9.49E-02	3.13E-03	9.18E-03	4.84E-02	1.16E-03	3.46E-04	1.66E-02	7.87E-02

4.91E-03	1.13E-02	4.29E-02	1.46E-03	1.76E-02	1.76E-02	9.59E-02	4.91E-03	1.13E-02	4.29E-02	1.46E-03	2.92E-04	1.76E-02	7.86E-02
5.09E-03	1.29E-02	3.65E-02	1.48E-03	1.81E-02	1.81E-02	9.21E-02	5.09E-03	1.29E-02	3.65E-02	1.48E-03	2.75E-04	1.81E-02	7.44E-02
4.75E-03	1.63E-02	2.94E-02	1.37E-03	1.91E-02	1.91E-02	9.00E-02	4.75E-03	1.63E-02	2.94E-02	1.37E-03	2.53E-04	1.91E-02	7.11E-02
5.18E-03	2.38E-02	2.45E-02	1.35E-03	2.18E-02	2.18E-02	9.86E-02	5.18E-03	2.38E-02	2.45E-02	1.35E-03	2.33E-04	2.18E-02	7.70E-02
5.52E-03	3.46E-02	2.26E-02	1.29E-03	2.34E-02	2.34E-02	1.11E-01	5.52E-03	3.46E-02	2.26E-02	1.29E-03	2.24E-04	2.34E-02	8.76E-02
6.45E-03	1.14E-01	1.70E-02	7.16E-04	2.66E-02	2.66E-02	1.91E-01	6.45E-03	1.14E-01	1.70E-02	7.16E-04	2.04E-04	2.66E-02	1.65E-01
7.54E-03	1.45E-01	1.61E-02	6.52E-04	2.78E-02	2.78E-02	2.25E-01	7.54E-03	1.45E-01	1.61E-02	6.52E-04	2.01E-04	2.78E-02	1.97E-01
6.74E-03	7.89E-02	1.99E-02	1.07E-03	2.63E-02	2.63E-02	1.59E-01	6.74E-03	7.89E-02	1.99E-02	1.07E-03	2.14E-04	2.63E-02	1.33E-01
6.23E-03	4.24E-02	2.22E-02	1.35E-03	2.47E-02	2.47E-02	1.22E-01	6.23E-03	4.24E-02	2.22E-02	1.35E-03	2.22E-04	2.47E-02	9.71E-02
5.79E-03	2.68E-02	2.42E-02	1.45E-03	2.29E-02	2.29E-02	1.04E-01	5.79E-03	2.68E-02	2.42E-02	1.45E-03	2.30E-04	2.29E-02	8.13E-02
5.45E-03	2.09E-02	2.62E-02	1.46E-03	2.13E-02	2.13E-02	9.65E-02	5.45E-03	2.09E-02	2.62E-02	1.46E-03	2.39E-04	2.13E-02	7.55E-02
2.03E-02	6.37E-02	2.78E-02	3.54E-03	3.16E-02	3.16E-02	1.79E-01	2.03E-02	6.37E-02	2.78E-02	3.54E-03	2.20E-04	3.16E-02	1.47E-01
2.09E-02	2.20E-01	2.28E-02	1.71E-03	3.34E-02	3.34E-02	3.32E-01	2.09E-02	2.20E-01	2.28E-02	1.71E-03	2.14E-04	3.34E-02	2.99E-01
2.06E-02	3.74E-01	1.59E-02	6.68E-04	3.43E-02	3.43E-02	4.80E-01	2.06E-02	3.74E-01	1.59E-02	6.68E-04	2.04E-04	3.43E-02	4.46E-01
2.91E-02	4.52E-01	1.22E-02	3.96E-04	3.20E-02	3.20E-02	5.58E-01	2.91E-02	4.52E-01	1.22E-02	3.96E-04	1.89E-04	3.20E-02	5.26E-01
1.09E-02	2.33E-01	1.36E-02	4.72E-04	2.93E-02	2.93E-02	3.16E-01	1.09E-02	2.33E-01	1.36E-02	4.72E-04	1.92E-04	2.93E-02	2.87E-01
6.69E-03	1.41E-01	1.48E-02	5.33E-04	2.66E-02	2.66E-02	2.16E-01	6.69E-03	1.41E-01	1.48E-02	5.33E-04	1.95E-04	2.66E-02	1.90E-01
7.42E-03	1.74E-01	1.23E-02	3.80E-04	2.50E-02	2.50E-02	2.44E-01	7.42E-03	1.74E-01	1.23E-02	3.80E-04	1.80E-04	2.50E-02	2.19E-01
8.29E-03	2.06E-01	1.05E-02	3.03E-04	2.27E-02	2.27E-02	2.71E-01	8.29E-03	2.06E-01	1.05E-02	3.03E-04	1.67E-04	2.27E-02	2.48E-01
9.21E-03	2.34E-01	9.27E-03	2.57E-04	2.03E-02	2.03E-02	2.94E-01	9.21E-03	2.34E-01	9.27E-03	2.57E-04	1.55E-04	2.03E-02	2.74E-01
9.14E-03	2.35E-01	8.69E-03	2.37E-04	1.91E-02	1.91E-02	2.92E-01	9.14E-03	2.35E-01	8.69E-03	2.37E-04	1.48E-04	1.91E-02	2.73E-01
8.85E-03	2.30E-01	8.47E-03	2.29E-04	1.84E-02	1.84E-02	2.84E-01	8.85E-03	2.30E-01	8.47E-03	2.29E-04	1.46E-04	1.84E-02	2.66E-01
9.55E-03	2.47E-01	7.76E-03	2.06E-04	1.67E-02	1.67E-02	2.97E-01	9.55E-03	2.47E-01	7.76E-03	2.06E-04	1.36E-04	1.67E-02	2.81E-01
1.02E-02	2.62E-01	7.51E-03	1.98E-04	1.60E-02	1.60E-02	3.12E-01	1.02E-02	2.62E-01	7.51E-03	1.98E-04	1.33E-04	1.60E-02	2.96E-01
1.08E-02	2.78E-01	7.27E-03	1.91E-04	1.54E-02	1.54E-02	3.27E-01	1.08E-02	2.78E-01	7.27E-03	1.91E-04	1.30E-04	1.54E-02	3.11E-01
1.15E-02	2.94E-01	7.05E-03	1.84E-04	1.48E-02	1.48E-02	3.42E-01	1.15E-02	2.94E-01	7.05E-03	1.84E-04	1.27E-04	1.48E-02	3.27E-01
1.19E-02	3.02E-01	6.86E-03	1.79E-04	1.41E-02	1.41E-02	3.50E-01	1.19E-02	3.02E-01	6.86E-03	1.79E-04	1.24E-04	1.41E-02	3.36E-01
1.29E-02	3.30E-01	6.65E-03	1.72E-04	1.37E-02	1.37E-02	3.77E-01	1.29E-02	3.30E-01	6.65E-03	1.72E-04	1.21E-04	1.37E-02	3.64E-01
1.13E-02	2.98E-01	6.28E-03	1.62E-04	1.23E-02	1.23E-02	3.40E-01	1.13E-02	2.98E-01	6.28E-03	1.62E-04	1.15E-04	1.23E-02	3.28E-01
9.86E-03	2.65E-01	6.21E-03	1.59E-04	1.20E-02	1.20E-02	3.06E-01	9.86E-03	2.65E-01	6.21E-03	1.59E-04	1.14E-04	1.20E-02	2.94E-01
7.85E-03	2.14E-01	6.04E-03	1.55E-04	1.14E-02	1.14E-02	2.51E-01	7.85E-03	2.14E-01	6.04E-03	1.55E-04	1.12E-04	1.14E-02	2.40E-01
7.14E-03	1.93E-01	5.95E-03	1.52E-04	1.11E-02	1.11E-02	2.28E-01	7.14E-03	1.93E-01	5.95E-03	1.52E-04	1.10E-04	1.11E-02	2.17E-01
8.50E-03	2.14E-01	5.63E-03	1.44E-04	1.07E-02	1.07E-02	2.50E-01	8.50E-03	2.14E-01	5.63E-03	1.44E-04	1.05E-04	1.07E-02	2.39E-01
9.92E-03	2.42E-01	5.31E-03	1.36E-04	1.03E-02	1.03E-02	2.78E-01	9.92E-03	2.42E-01	5.31E-03	1.36E-04	1.01E-04	1.03E-02	2.67E-01
8.49E-03	2.15E-01	5.23E-03	1.33E-04	9.94E-03	9.94E-03	2.49E-01	8.49E-03	2.15E-01	5.23E-03	1.33E-04	9.95E-05	9.94E-03	2.39E-01
7.43E-03	1.93E-01	5.14E-03	1.31E-04	9.59E-03	9.59E-03	2.25E-01	7.43E-03	1.93E-01	5.14E-03	1.31E-04	9.82E-05	9.59E-03	2.16E-01
5.42E-03	1.33E-01	5.00E-03	1.27E-04	8.72E-03	8.72E-03	1.61E-01	5.42E-03	1.33E-01	5.00E-03	1.27E-04	9.65E-05	8.72E-03	1.53E-01
7.81E-03	1.93E-01	4.61E-03	1.17E-04	8.39E-03	8.39E-03	2.22E-01	7.81E-03	1.93E-01	4.61E-03	1.17E-04	9.01E-05	8.39E-03	2.14E-01
1.26E-02	2.76E-01	4.46E-03	1.14E-04	8.34E-03	8.34E-03	3.09E-01	1.26E-02	2.76E-01	4.46E-03	1.14E-04	8.83E-05	8.34E-03	3.01E-01
1.28E-02	1.63E-01	4.15E-03	1.08E-04	8.13E-03	8.13E-03	1.96E-01	1.28E-02	1.63E-01	4.15E-03	1.08E-04	8.48E-05	8.13E-03	1.88E-01
5.49E-03	9.32E-02	4.31E-03	1.12E-04	8.46E-03	8.46E-03	1.20E-01	5.49E-03	9.32E-02	4.31E-03	1.12E-04	8.85E-05	8.46E-03	1.12E-01
6.94E-03	1.26E-01	4.60E-03	1.19E-04	9.89E-03	9.89E-03	1.58E-01	6.94E-03	1.26E-01	4.60E-03	1.19E-04	9.22E-05	9.89E-03	1.48E-01
1.02E-02	1.76E-01	5.03E-03	1.30E-04	1.10E-02	1.10E-02	2.13E-01	1.02E-02	1.76E-01	5.03E-03	1.30E-04	9.85E-05	1.10E-02	2.02E-01
8.78E-03	1.63E-01	5.27E-03	1.37E-04	1.17E-02	1.17E-02	2.01E-01	8.78E-03	1.63E-01	5.27E-03	1.37E-04	1.03E-04	1.17E-02	1.89E-01
8.11E-03	1.53E-01	5.40E-03	1.40E-04	1.22E-02	1.22E-02	1.91E-01	8.11E-03	1.53E-01	5.40E-03	1.40E-04	1.05E-04	1.22E-02	1.79E-01
8.13E-03	1.54E-01	5.53E-03	1.44E-04	1.26E-02	1.26E-02	1.93E-01	8.13E-03	1.54E-01	5.53E-03	1.44E-04	1.07E-04	1.26E-02	1.80E-01
1.86E-02	2.64E-01	6.00E-03	1.57E-04	1.36E-02	1.36E-02	3.16E-01	1.86E-02	2.64E-01	6.00E-03	1.57E-04	1.14E-04	1.36E-02	3.02E-01
1.76E-02	2.52E-01	6.11E-03	1.60E-04	1.42E-02	1.42E-02	3.05E-01	1.76E-02	2.52E-01	6.11E-03	1.60E-04	1.16E-04	1.42E-02	2.91E-01
1.72E-02	2.52E-01	6.24E-03	1.64E-04	1.48E-02	1.48E-02	3.05E-01	1.72E-02	2.52E-01	6.24E-03	1.64E-04	1.19E-04	1.48E-02	2.91E-01
1.60E-02	2.40E-01	6.36E-03	1.68E-04	1.54E-02	1.54E-02	2.93E-01	1.60E-02	2.40E-01	6.36E-03	1.68E-04	1.21E-04	1.54E-02	2.78E-01
1.52E-02	2.32E-01	6.48E-03	1.73E-04	1.60E-02	1.60E-02	2.86E-01	1.52E-02	2.32E-01	6.48E-03	1.73E-04	1.24E-04	1.60E-02	2.70E-01
1.49E-02	2.30E-01	6.63E-03	1.78E-04	1.67E-02	1.67E-02	2.85E-01	1.49E-02	2.30E-01	6.63E-03	1.78E-04	1.27E-04	1.67E-02	2.68E-01
1.47E-02	2.27E-01	6.79E-03	1.83E-04	1.73E-02	1.73E-02	2.83E-01	1.47E-02	2.27E-01	6.79E-03	1.83E-04	1.30E-04	1.73E-02	2.66E-01
1.44E-02	2.22E-01	6.97E-03	1.89E-04	1.80E-02	1.80E-02	2.79E-01	1.44E-02	2.22E-01	6.97E-03	1.89E-04	1.34E-04	1.80E-02	2.61E-01

1.49E-02	2.17E-01	7.57E-03	2.09E-04	2.00E-02	2.00E-02	2.79E-01	1.49E-02	2.17E-01	7.57E-03	2.09E-04	1.45E-04	2.00E-02	2.59E-01
9.85E-03	1.69E-01	8.04E-03	2.26E-04	2.22E-02	2.22E-02	2.31E-01	9.85E-03	1.69E-01	8.04E-03	2.26E-04	1.53E-04	2.22E-02	2.09E-01
9.81E-03	1.67E-01	8.38E-03	2.37E-04	2.36E-02	2.36E-02	2.33E-01	9.81E-03	1.67E-01	8.38E-03	2.37E-04	1.58E-04	2.36E-02	2.09E-01
9.78E-03	1.66E-01	8.75E-03	2.51E-04	2.52E-02	2.52E-02	2.36E-01	9.78E-03	1.66E-01	8.75E-03	2.51E-04	1.62E-04	2.52E-02	2.11E-01
9.69E-03	1.64E-01	9.15E-03	2.65E-04	2.71E-02	2.71E-02	2.38E-01	9.69E-03	1.64E-01	9.15E-03	2.65E-04	1.67E-04	2.71E-02	2.11E-01
1.17E-02	1.87E-01	1.03E-02	3.11E-04	3.14E-02	3.14E-02	2.72E-01	1.17E-02	1.87E-01	1.03E-02	3.11E-04	1.78E-04	3.14E-02	2.41E-01
1.13E-02	1.82E-01	1.09E-02	3.39E-04	3.36E-02	3.36E-02	2.72E-01	1.13E-02	1.82E-01	1.09E-02	3.39E-04	1.83E-04	3.36E-02	2.38E-01
1.05E-02	1.60E-01	1.16E-02	3.72E-04	3.66E-02	3.66E-02	2.56E-01	1.05E-02	1.60E-01	1.16E-02	3.72E-04	1.88E-04	3.66E-02	2.19E-01
9.94E-03	1.46E-01	1.24E-02	4.17E-04	3.95E-02	3.95E-02	2.48E-01	9.94E-03	1.46E-01	1.24E-02	4.17E-04	1.93E-04	3.95E-02	2.09E-01
9.30E-03	1.31E-01	1.33E-02	4.79E-04	4.27E-02	4.27E-02	2.40E-01	9.30E-03	1.31E-01	1.33E-02	4.79E-04	1.98E-04	4.27E-02	1.97E-01
8.59E-03	1.07E-01	1.46E-02	5.60E-04	4.77E-02	4.77E-02	2.26E-01	8.59E-03	1.07E-01	1.46E-02	5.60E-04	2.02E-04	4.77E-02	1.79E-01
3.38E-03	5.51E-02	1.32E-02	4.61E-04	6.28E-02	6.28E-02	1.98E-01	3.38E-03	5.51E-02	1.32E-02	4.61E-04	1.95E-04	6.28E-02	1.35E-01
2.16E-03	4.30E-02	1.15E-02	3.63E-04	6.59E-02	6.59E-02	1.89E-01	2.16E-03	4.30E-02	1.15E-02	3.63E-04	1.85E-04	6.59E-02	1.23E-01
1.60E-03	3.54E-02	1.03E-02	3.06E-04	6.84E-02	6.84E-02	1.85E-01	1.60E-03	3.54E-02	1.03E-02	3.06E-04	1.76E-04	6.84E-02	1.16E-01
1.28E-03	3.01E-02	9.41E-03	2.66E-04	7.01E-02	7.01E-02	1.81E-01	1.28E-03	3.01E-02	9.41E-03	2.66E-04	1.68E-04	7.01E-02	1.11E-01
1.08E-03	2.63E-02	8.63E-03	2.37E-04	7.00E-02	7.00E-02	1.76E-01	1.08E-03	2.63E-02	8.63E-03	2.37E-04	1.61E-04	7.00E-02	1.06E-01
1.01E-03	2.59E-02	7.95E-03	2.15E-04	4.63E-02	4.63E-02	1.28E-01	1.01E-03	2.59E-02	7.95E-03	2.15E-04	1.57E-04	4.63E-02	8.15E-02
1.09E-03	2.88E-02	7.94E-03	2.17E-04	4.00E-02	4.00E-02	1.18E-01	1.09E-03	2.88E-02	7.94E-03	2.17E-04	1.56E-04	4.00E-02	7.83E-02
1.20E-03	3.24E-02	7.91E-03	2.18E-04	3.55E-02	3.55E-02	1.13E-01	1.20E-03	3.24E-02	7.91E-03	2.18E-04	1.56E-04	3.55E-02	7.74E-02
1.26E-03	3.49E-02	7.53E-03	2.09E-04	2.99E-02	2.99E-02	1.04E-01	1.26E-03	3.49E-02	7.53E-03	2.09E-04	1.51E-04	2.99E-02	7.40E-02
1.08E-03	3.04E-02	7.14E-03	1.94E-04	2.85E-02	2.85E-02	9.59E-02	1.08E-03	3.04E-02	7.14E-03	1.94E-04	1.45E-04	2.85E-02	6.75E-02
8.91E-04	2.46E-02	6.78E-03	1.81E-04	2.91E-02	2.91E-02	9.07E-02	8.91E-04	2.46E-02	6.78E-03	1.81E-04	1.40E-04	2.91E-02	6.17E-02
8.34E-04	2.26E-02	6.78E-03	1.80E-04	3.08E-02	3.08E-02	9.19E-02	8.34E-04	2.26E-02	6.78E-03	1.80E-04	1.42E-04	3.08E-02	6.13E-02
7.84E-04	2.08E-02	6.76E-03	1.79E-04	3.27E-02	3.27E-02	9.39E-02	7.84E-04	2.08E-02	6.76E-03	1.79E-04	1.45E-04	3.27E-02	6.13E-02
7.41E-04	1.92E-02	6.73E-03	1.78E-04	3.50E-02	3.50E-02	9.68E-02	7.41E-04	1.92E-02	6.73E-03	1.78E-04	1.50E-04	3.50E-02	6.20E-02
7.00E-04	1.76E-02	6.67E-03	1.77E-04	3.81E-02	3.81E-02	1.01E-01	7.00E-04	1.76E-02	6.67E-03	1.77E-04	1.56E-04	3.81E-02	6.34E-02
6.66E-04	1.63E-02	6.62E-03	1.76E-04	4.23E-02	4.23E-02	1.08E-01	6.66E-04	1.63E-02	6.62E-03	1.76E-04	1.66E-04	4.23E-02	6.62E-02
6.34E-04	1.51E-02	6.56E-03	1.75E-04	4.85E-02	4.85E-02	1.19E-01	6.34E-04	1.51E-02	6.56E-03	1.75E-04	1.81E-04	4.85E-02	7.11E-02
6.06E-04	1.39E-02	6.50E-03	1.74E-04	5.81E-02	5.81E-02	1.37E-01	6.06E-04	1.39E-02	6.50E-03	1.74E-04	1.97E-04	5.81E-02	7.95E-02
5.56E-04	1.25E-02	6.15E-03	1.65E-04	7.51E-02	7.51E-02	1.70E-01	5.56E-04	1.25E-02	6.15E-03	1.65E-04	1.39E-04	7.51E-02	9.46E-02
5.34E-04	1.19E-02	5.84E-03	1.57E-04	7.48E-02	7.48E-02	1.68E-01	5.34E-04	1.19E-02	5.84E-03	1.57E-04	1.22E-04	7.48E-02	9.34E-02
5.34E-04	1.23E-02	5.63E-03	1.50E-04	6.31E-02	6.31E-02	1.45E-01	5.34E-04	1.23E-02	5.63E-03	1.50E-04	1.23E-04	6.31E-02	8.18E-02
5.54E-04	1.32E-02	5.68E-03	1.51E-04	5.67E-02	5.67E-02	1.33E-01	5.54E-04	1.32E-02	5.68E-03	1.51E-04	1.27E-04	5.67E-02	7.64E-02
5.77E-04	1.42E-02	5.73E-03	1.52E-04	5.15E-02	5.15E-02	1.24E-01	5.77E-04	1.42E-02	5.73E-03	1.52E-04	1.29E-04	5.15E-02	7.22E-02
6.04E-04	1.53E-02	5.79E-03	1.53E-04	4.57E-02	4.57E-02	1.13E-01	6.04E-04	1.53E-02	5.79E-03	1.53E-04	1.29E-04	4.57E-02	6.77E-02
6.33E-04	1.64E-02	5.85E-03	1.54E-04	3.99E-02	3.99E-02	1.03E-01	6.33E-04	1.64E-02	5.85E-03	1.54E-04	1.28E-04	3.99E-02	6.31E-02
6.65E-04	1.77E-02	5.90E-03	1.55E-04	3.55E-02	3.55E-02	9.54E-02	6.65E-04	1.77E-02	5.90E-03	1.55E-04	1.27E-04	3.55E-02	6.00E-02
7.01E-04	1.90E-02	5.93E-03	1.56E-04	3.22E-02	3.22E-02	9.02E-02	7.01E-04	1.90E-02	5.93E-03	1.56E-04	1.25E-04	3.22E-02	5.82E-02
6.79E-04	1.87E-02	5.63E-03	1.48E-04	3.15E-02	3.15E-02	8.80E-02	6.79E-04	1.87E-02	5.63E-03	1.48E-04	1.18E-04	3.15E-02	5.67E-02
6.29E-04	1.70E-02	5.31E-03	1.39E-04	3.37E-02	3.37E-02	9.05E-02	6.29E-04	1.70E-02	5.31E-03	1.39E-04	1.12E-04	3.37E-02	5.69E-02
5.90E-04	1.55E-02	5.02E-03	1.32E-04	4.02E-02	4.02E-02	1.02E-01	5.90E-04	1.55E-02	5.02E-03	1.32E-04	1.06E-04	4.02E-02	6.15E-02
5.56E-04	1.42E-02	4.74E-03	1.25E-04	5.88E-02	5.88E-02	1.37E-01	5.56E-04	1.42E-02	4.74E-03	1.25E-04	1.01E-04	5.88E-02	7.86E-02
5.24E-04	1.32E-02	4.50E-03	1.19E-04	6.14E-02	6.14E-02	1.41E-01	5.24E-04	1.32E-02	4.50E-03	1.19E-04	9.56E-05	6.14E-02	7.99E-02
4.91E-04	1.22E-02	4.26E-03	1.13E-04	5.61E-02	5.61E-02	1.29E-01	4.91E-04	1.22E-02	4.26E-03	1.13E-04	9.03E-05	5.61E-02	7.33E-02
4.61E-04	1.13E-02	4.05E-03	1.08E-04	3.67E-02	3.67E-02	8.93E-02	4.61E-04	1.13E-02	4.05E-03	1.08E-04	8.59E-05	3.67E-02	5.27E-02
4.21E-04	1.02E-02	3.83E-03	1.02E-04	2.14E-02	2.14E-02	5.73E-02	4.21E-04	1.02E-02	3.83E-03	1.02E-04	8.14E-05	2.14E-02	3.60E-02
4.09E-04	9.75E-03	3.80E-03	1.01E-04	2.17E-02	2.17E-02	5.75E-02	4.09E-04	9.75E-03	3.80E-03	1.01E-04	8.10E-05	2.17E-02	3.59E-02
3.99E-04	9.39E-03	3.78E-03	1.01E-04	2.19E-02	2.19E-02	5.74E-02	3.99E-04	9.39E-03	3.78E-03	1.01E-04	8.04E-05	2.19E-02	3.56E-02
3.89E-04	9.02E-03	3.76E-03	1.00E-04	2.16E-02	2.16E-02	5.65E-02	3.89E-04	9.02E-03	3.76E-03	1.00E-04	7.96E-05	2.16E-02	3.50E-02
3.79E-04	8.69E-03	3.75E-03	1.00E-04	2.14E-02	2.14E-02	5.57E-02	3.79E-04	8.69E-03	3.75E-03	1.00E-04	7.88E-05	2.14E-02	3.44E-02
3.70E-04	8.31E-03	3.72E-03	9.97E-05	2.06E-02	2.06E-02	5.38E-02	3.70E-04	8.31E-03	3.72E-03	9.97E-05	7.78E-05	2.06E-02	3.32E-02
3.63E-04	8.05E-03	3.72E-03	1.00E-04	2.04E-02	2.04E-02	5.30E-02	3.63E-04	8.05E-03	3.72E-03	1.00E-04	7.75E-05	2.04E-02	3.27E-02
3.40E-04	7.34E-03	3.61E-03	9.87E-05	1.43E-02	1.43E-02	4.00E-02	3.40E-04	7.34E-03	3.61E-03	9.87E-05	7.51E-05	1.43E-02	2.58E-02
3.34E-04	7.05E-03	3.57E-03	9.81E-05	1.36E-02	1.36E-02	3.82E-02	3.34E-04	7.05E-03	3.57E-03	9.81E-05	7.44E-05	1.36E-02	2.47E-02

3.26E-04	6.75E-03	3.53E-03	9.71E-05	1.26E-02	1.26E-02	3.60E-02	3.26E-04	6.75E-03	3.53E-03	9.71E-05	7.36E-05	1.26E-02	2.34E-02
3.20E-04	6.47E-03	3.49E-03	9.61E-05	1.16E-02	1.16E-02	3.37E-02	3.20E-04	6.47E-03	3.49E-03	9.61E-05	7.29E-05	1.16E-02	2.21E-02
3.12E-04	6.22E-03	3.46E-03	9.54E-05	1.08E-02	1.08E-02	3.17E-02	3.12E-04	6.22E-03	3.46E-03	9.54E-05	7.24E-05	1.08E-02	2.09E-02
3.07E-04	5.99E-03	3.44E-03	9.49E-05	1.01E-02	1.01E-02	2.99E-02	3.07E-04	5.99E-03	3.44E-03	9.49E-05	7.20E-05	1.01E-02	1.99E-02
3.01E-04	5.78E-03	3.42E-03	9.46E-05	9.45E-03	9.45E-03	2.85E-02	3.01E-04	5.78E-03	3.42E-03	9.46E-05	7.17E-05	9.45E-03	1.91E-02
2.96E-04	5.60E-03	3.42E-03	9.47E-05	8.94E-03	8.94E-03	2.73E-02	2.96E-04	5.60E-03	3.42E-03	9.47E-05	7.15E-05	8.94E-03	1.84E-02
3.00E-04	5.60E-03	3.58E-03	9.89E-05	9.76E-03	9.76E-03	2.91E-02	3.00E-04	5.60E-03	3.58E-03	9.89E-05	7.40E-05	9.76E-03	1.94E-02
3.10E-04	5.73E-03	3.73E-03	1.03E-04	1.14E-02	1.14E-02	3.26E-02	3.10E-04	5.73E-03	3.73E-03	1.03E-04	7.64E-05	1.14E-02	2.13E-02
3.20E-04	5.89E-03	3.91E-03	1.07E-04	1.32E-02	1.32E-02	3.67E-02	3.20E-04	5.89E-03	3.91E-03	1.07E-04	7.94E-05	1.32E-02	2.35E-02
3.33E-04	6.07E-03	4.10E-03	1.12E-04	1.48E-02	1.48E-02	4.02E-02	3.33E-04	6.07E-03	4.10E-03	1.12E-04	8.28E-05	1.48E-02	2.55E-02
3.47E-04	6.24E-03	4.31E-03	1.17E-04	1.59E-02	1.59E-02	4.28E-02	3.47E-04	6.24E-03	4.31E-03	1.17E-04	8.62E-05	1.59E-02	2.70E-02
3.62E-04	6.42E-03	4.53E-03	1.23E-04	1.69E-02	1.69E-02	4.52E-02	3.62E-04	6.42E-03	4.53E-03	1.23E-04	8.98E-05	1.69E-02	2.84E-02
3.80E-04	6.65E-03	4.81E-03	1.30E-04	1.81E-02	1.81E-02	4.82E-02	3.80E-04	6.65E-03	4.81E-03	1.30E-04	9.42E-05	1.81E-02	3.02E-02
3.97E-04	6.86E-03	5.10E-03	1.38E-04	1.92E-02	1.92E-02	5.09E-02	3.97E-04	6.86E-03	5.10E-03	1.38E-04	9.87E-05	1.92E-02	3.18E-02
4.11E-04	7.02E-03	5.37E-03	1.44E-04	2.00E-02	2.00E-02	5.29E-02	4.11E-04	7.02E-03	5.37E-03	1.44E-04	1.03E-04	2.00E-02	3.30E-02
4.26E-04	7.24E-03	5.74E-03	1.53E-04	2.15E-02	2.15E-02	5.65E-02	4.26E-04	7.24E-03	5.74E-03	1.53E-04	1.08E-04	2.15E-02	3.51E-02
4.40E-04	7.43E-03	6.10E-03	1.62E-04	2.32E-02	2.32E-02	6.05E-02	4.40E-04	7.43E-03	6.10E-03	1.62E-04	1.13E-04	2.32E-02	3.75E-02
4.55E-04	7.59E-03	6.51E-03	1.72E-04	2.62E-02	2.62E-02	6.72E-02	4.55E-04	7.59E-03	6.51E-03	1.72E-04	1.19E-04	2.62E-02	4.11E-02
4.61E-04	7.28E-03	6.93E-03	1.82E-04	3.01E-02	3.01E-02	7.50E-02	4.61E-04	7.28E-03	6.93E-03	1.82E-04	1.23E-04	3.01E-02	4.51E-02
4.49E-04	6.92E-03	6.92E-03	1.80E-04	2.78E-02	2.78E-02	7.01E-02	4.49E-04	6.92E-03	6.92E-03	1.80E-04	1.22E-04	2.78E-02	4.24E-02
4.38E-04	6.58E-03	6.90E-03	1.79E-04	2.59E-02	2.59E-02	6.58E-02	4.38E-04	6.58E-03	6.90E-03	1.79E-04	1.21E-04	2.59E-02	4.01E-02
4.27E-04	6.28E-03	6.86E-03	1.77E-04	2.38E-02	2.38E-02	6.14E-02	4.27E-04	6.28E-03	6.86E-03	1.77E-04	1.19E-04	2.38E-02	3.77E-02
4.17E-04	6.01E-03	6.84E-03	1.76E-04	2.19E-02	2.19E-02	5.72E-02	4.17E-04	6.01E-03	6.84E-03	1.76E-04	1.18E-04	2.19E-02	3.54E-02
4.07E-04	5.77E-03	6.80E-03	1.75E-04	1.99E-02	1.99E-02	5.30E-02	4.07E-04	5.77E-03	6.80E-03	1.75E-04	1.18E-04	1.99E-02	3.32E-02
3.98E-04	5.55E-03	6.76E-03	1.74E-04	1.81E-02	1.81E-02	4.90E-02	3.98E-04	5.55E-03	6.76E-03	1.74E-04	1.18E-04	1.81E-02	3.10E-02
3.90E-04	5.34E-03	6.71E-03	1.72E-04	1.63E-02	1.63E-02	4.53E-02	3.90E-04	5.34E-03	6.71E-03	1.72E-04	1.18E-04	1.63E-02	2.91E-02
3.82E-04	5.16E-03	6.67E-03	1.71E-04	1.48E-02	1.48E-02	4.20E-02	3.82E-04	5.16E-03	6.67E-03	1.71E-04	1.18E-04	1.48E-02	2.73E-02
3.75E-04	4.98E-03	6.62E-03	1.70E-04	1.35E-02	1.35E-02	3.92E-02	3.75E-04	4.98E-03	6.62E-03	1.70E-04	1.18E-04	1.35E-02	2.58E-02
3.67E-04	4.82E-03	6.55E-03	1.68E-04	1.23E-02	1.23E-02	3.65E-02	3.67E-04	4.82E-03	6.55E-03	1.68E-04	1.19E-04	1.23E-02	2.43E-02
3.60E-04	4.67E-03	6.49E-03	1.67E-04	1.13E-02	1.13E-02	3.43E-02	3.60E-04	4.67E-03	6.49E-03	1.67E-04	1.19E-04	1.13E-02	2.31E-02
3.54E-04	4.53E-03	6.45E-03	1.66E-04	1.05E-02	1.05E-02	3.25E-02	3.54E-04	4.53E-03	6.45E-03	1.66E-04	1.20E-04	1.05E-02	2.21E-02
3.46E-04	4.40E-03	6.39E-03	1.64E-04	9.77E-03	9.77E-03	3.08E-02	3.46E-04	4.40E-03	6.39E-03	1.64E-04	1.20E-04	9.77E-03	2.12E-02
3.40E-04	4.28E-03	6.33E-03	1.62E-04	9.12E-03	9.12E-03	2.93E-02	3.40E-04	4.28E-03	6.33E-03	1.62E-04	1.21E-04	9.12E-03	2.04E-02
3.33E-04	4.17E-03	6.27E-03	1.61E-04	8.52E-03	8.52E-03	2.80E-02	3.33E-04	4.17E-03	6.27E-03	1.61E-04	1.20E-04	8.52E-03	1.96E-02
3.36E-04	4.11E-03	6.58E-03	1.66E-04	8.56E-03	8.56E-03	2.83E-02	3.36E-04	4.11E-03	6.58E-03	1.66E-04	1.26E-04	8.56E-03	1.99E-02
3.44E-04	4.15E-03	6.99E-03	1.75E-04	9.22E-03	9.22E-03	3.01E-02	3.44E-04	4.15E-03	6.99E-03	1.75E-04	1.33E-04	9.22E-03	2.10E-02
3.52E-04	4.20E-03	7.45E-03	1.84E-04	9.97E-03	9.97E-03	3.21E-02	3.52E-04	4.20E-03	7.45E-03	1.84E-04	1.41E-04	9.97E-03	2.23E-02
3.61E-04	4.24E-03	7.94E-03	1.93E-04	1.08E-02	1.08E-02	3.43E-02	3.61E-04	4.24E-03	7.94E-03	1.93E-04	1.49E-04	1.08E-02	2.37E-02
3.72E-04	4.28E-03	8.50E-03	2.04E-04	1.17E-02	1.17E-02	3.67E-02	3.72E-04	4.28E-03	8.50E-03	2.04E-04	1.58E-04	1.17E-02	2.52E-02
3.85E-04	4.32E-03	9.07E-03	2.15E-04	1.25E-02	1.25E-02	3.89E-02	3.85E-04	4.32E-03	9.07E-03	2.15E-04	1.67E-04	1.25E-02	2.66E-02
3.99E-04	4.36E-03	9.69E-03	2.27E-04	1.31E-02	1.31E-02	4.08E-02	3.99E-04	4.36E-03	9.69E-03	2.27E-04	1.77E-04	1.31E-02	2.79E-02
4.16E-04	4.39E-03	1.04E-02	2.41E-04	1.35E-02	1.35E-02	4.24E-02	4.16E-04	4.39E-03	1.04E-02	2.41E-04	1.89E-04	1.35E-02	2.91E-02
4.33E-04	4.40E-03	1.11E-02	2.54E-04	1.37E-02	1.37E-02	4.36E-02	4.33E-04	4.40E-03	1.11E-02	2.54E-04	2.01E-04	1.37E-02	3.01E-02
4.54E-04	4.41E-03	1.20E-02	2.70E-04	1.40E-02	1.40E-02	4.51E-02	4.54E-04	4.41E-03	1.20E-02	2.70E-04	2.15E-04	1.40E-02	3.13E-02
4.75E-04	4.41E-03	1.30E-02	2.87E-04	1.43E-02	1.43E-02	4.67E-02	4.75E-04	4.41E-03	1.30E-02	2.87E-04	2.30E-04	1.43E-02	3.26E-02
4.99E-04	4.38E-03	1.40E-02	3.05E-04	1.47E-02	1.47E-02	4.85E-02	4.99E-04	4.38E-03	1.40E-02	3.05E-04	2.46E-04	1.47E-02	3.41E-02
5.27E-04	4.35E-03	1.53E-02	3.27E-04	1.52E-02	1.52E-02	5.08E-02	5.27E-04	4.35E-03	1.53E-02	3.27E-04	2.66E-04	1.52E-02	3.59E-02
5.56E-04	4.30E-03	1.66E-02	3.49E-04	1.57E-02	1.57E-02	5.33E-02	5.56E-04	4.30E-03	1.66E-02	3.49E-04	2.86E-04	1.57E-02	3.78E-02
5.92E-04	4.23E-03	1.82E-02	3.73E-04	1.62E-02	1.62E-02	5.58E-02	5.92E-04	4.23E-03	1.82E-02	3.73E-04	3.09E-04	1.62E-02	3.99E-02
6.38E-04	4.17E-03	2.02E-02	4.03E-04	1.69E-02	1.69E-02	5.92E-02	6.38E-04	4.17E-03	2.02E-02	4.03E-04	3.39E-04	1.69E-02	4.27E-02
6.49E-04	4.06E-03	2.10E-02	4.15E-04	1.64E-02	1.64E-02	5.90E-02	6.49E-04	4.06E-03	2.10E-02	4.15E-04	3.60E-04	1.64E-02	4.29E-02
6.14E-04	4.03E-03	1.98E-02	3.99E-04	1.50E-02	1.50E-02	5.48E-02	6.14E-04	4.03E-03	1.98E-02	3.99E-04	3.52E-04	1.50E-02	4.02E-02
5.86E-04	4.00E-03	1.89E-02	3.85E-04	1.38E-02	1.38E-02	5.15E-02	5.86E-04	4.00E-03	1.89E-02	3.85E-04	3.46E-04	1.38E-02	3.81E-02
5.58E-04	3.96E-03	1.80E-02	3.71E-04	1.29E-02	1.29E-02	4.87E-02	5.58E-04	3.96E-03	1.80E-02	3.71E-04	3.38E-04	1.29E-02	3.61E-02

5.35E-04	3.93E-03	1.72E-02	3.59E-04	1.22E-02	1.22E-02	4.64E-02	5.35E-04	3.93E-03	1.72E-02	3.59E-04	3.31E-04	1.22E-02	3.45E-02
5.14E-04	3.89E-03	1.65E-02	3.47E-04	1.15E-02	1.15E-02	4.43E-02	5.14E-04	3.89E-03	1.65E-02	3.47E-04	3.25E-04	1.15E-02	3.31E-02
4.94E-04	3.86E-03	1.58E-02	3.36E-04	1.09E-02	1.09E-02	4.24E-02	4.94E-04	3.86E-03	1.58E-02	3.36E-04	3.19E-04	1.09E-02	3.17E-02
4.77E-04	3.82E-03	1.52E-02	3.27E-04	1.04E-02	1.04E-02	4.07E-02	4.77E-04	3.82E-03	1.52E-02	3.27E-04	3.14E-04	1.04E-02	3.06E-02
4.60E-04	3.79E-03	1.46E-02	3.17E-04	9.99E-03	9.99E-03	3.92E-02	4.60E-04	3.79E-03	1.46E-02	3.17E-04	3.08E-04	9.99E-03	2.95E-02
4.44E-04	3.75E-03	1.40E-02	3.07E-04	9.58E-03	9.58E-03	3.77E-02	4.44E-04	3.75E-03	1.40E-02	3.07E-04	3.01E-04	9.58E-03	2.84E-02
4.29E-04	3.71E-03	1.35E-02	2.98E-04	9.20E-03	9.20E-03	3.63E-02	4.29E-04	3.71E-03	1.35E-02	2.98E-04	2.95E-04	9.20E-03	2.74E-02
4.15E-04	3.68E-03	1.30E-02	2.89E-04	8.84E-03	8.84E-03	3.51E-02	4.15E-04	3.68E-03	1.30E-02	2.89E-04	2.89E-04	8.84E-03	2.65E-02
4.14E-04	3.65E-03	1.32E-02	2.93E-04	9.22E-03	9.22E-03	3.60E-02	4.14E-04	3.65E-03	1.32E-02	2.93E-04	2.98E-04	9.22E-03	2.70E-02
4.29E-04	3.65E-03	1.39E-02	3.06E-04	1.01E-02	1.01E-02	3.86E-02	4.29E-04	3.65E-03	1.39E-02	3.06E-04	3.14E-04	1.01E-02	2.87E-02
4.45E-04	3.64E-03	1.46E-02	3.19E-04	1.13E-02	1.13E-02	4.17E-02	4.45E-04	3.64E-03	1.46E-02	3.19E-04	3.31E-04	1.13E-02	3.07E-02
4.61E-04	3.64E-03	1.54E-02	3.32E-04	1.30E-02	1.30E-02	4.58E-02	4.61E-04	3.64E-03	1.54E-02	3.32E-04	3.47E-04	1.30E-02	3.32E-02
4.62E-04	3.62E-03	1.56E-02	3.35E-04	1.43E-02	1.43E-02	4.86E-02	4.62E-04	3.62E-03	1.56E-02	3.35E-04	3.54E-04	1.43E-02	3.47E-02
4.45E-04	3.60E-03	1.49E-02	3.24E-04	1.34E-02	1.34E-02	4.62E-02	4.45E-04	3.60E-03	1.49E-02	3.24E-04	3.43E-04	1.34E-02	3.31E-02
4.30E-04	3.59E-03	1.44E-02	3.15E-04	1.27E-02	1.27E-02	4.41E-02	4.30E-04	3.59E-03	1.44E-02	3.15E-04	3.32E-04	1.27E-02	3.17E-02
4.17E-04	3.58E-03	1.39E-02	3.05E-04	1.20E-02	1.20E-02	4.21E-02	4.17E-04	3.58E-03	1.39E-02	3.05E-04	3.22E-04	1.20E-02	3.05E-02
4.04E-04	3.57E-03	1.34E-02	2.96E-04	1.13E-02	1.13E-02	4.03E-02	4.04E-04	3.57E-03	1.34E-02	2.96E-04	3.12E-04	1.13E-02	2.93E-02
3.93E-04	3.56E-03	1.29E-02	2.88E-04	1.07E-02	1.07E-02	3.86E-02	3.93E-04	3.56E-03	1.29E-02	2.88E-04	3.01E-04	1.07E-02	2.82E-02
3.83E-04	3.55E-03	1.25E-02	2.80E-04	1.01E-02	1.01E-02	3.68E-02	3.83E-04	3.55E-03	1.25E-02	2.80E-04	2.92E-04	1.01E-02	2.70E-02
3.74E-04	3.54E-03	1.20E-02	2.71E-04	9.58E-03	9.58E-03	3.54E-02	3.74E-04	3.54E-03	1.20E-02	2.71E-04	2.82E-04	9.58E-03	2.61E-02
3.65E-04	3.53E-03	1.16E-02	2.62E-04	9.20E-03	9.20E-03	3.41E-02	3.65E-04	3.53E-03	1.16E-02	2.62E-04	2.71E-04	9.20E-03	2.52E-02
3.57E-04	3.51E-03	1.12E-02	2.55E-04	8.73E-03	8.73E-03	3.28E-02	3.57E-04	3.51E-03	1.12E-02	2.55E-04	2.62E-04	8.73E-03	2.43E-02
3.58E-04	3.52E-03	1.12E-02	2.55E-04	9.14E-03	9.14E-03	3.36E-02	3.58E-04	3.52E-03	1.12E-02	2.55E-04	2.63E-04	9.14E-03	2.48E-02
3.68E-04	3.54E-03	1.17E-02	2.65E-04	1.00E-02	1.00E-02	3.60E-02	3.68E-04	3.54E-03	1.17E-02	2.65E-04	2.73E-04	1.00E-02	2.62E-02
3.77E-04	3.57E-03	1.22E-02	2.73E-04	1.13E-02	1.13E-02	3.90E-02	3.77E-04	3.57E-03	1.22E-02	2.73E-04	2.83E-04	1.13E-02	2.80E-02
3.87E-04	3.59E-03	1.27E-02	2.82E-04	1.29E-02	1.29E-02	4.28E-02	3.87E-04	3.59E-03	1.27E-02	2.82E-04	2.92E-04	1.29E-02	3.02E-02
3.89E-04	3.61E-03	1.28E-02	2.83E-04	1.32E-02	1.32E-02	4.35E-02	3.89E-04	3.61E-03	1.28E-02	2.83E-04	2.91E-04	1.32E-02	3.06E-02
3.79E-04	3.60E-03	1.23E-02	2.74E-04	1.18E-02	1.18E-02	4.03E-02	3.79E-04	3.60E-03	1.23E-02	2.74E-04	2.80E-04	1.18E-02	2.87E-02
3.70E-04	3.58E-03	1.18E-02	2.64E-04	1.09E-02	1.09E-02	3.78E-02	3.70E-04	3.58E-03	1.18E-02	2.64E-04	2.68E-04	1.09E-02	2.72E-02
3.62E-04	3.58E-03	1.15E-02	2.57E-04	9.85E-03	9.85E-03	3.54E-02	3.62E-04	3.58E-03	1.15E-02	2.57E-04	2.58E-04	9.85E-03	2.58E-02
3.55E-04	3.56E-03	1.11E-02	2.49E-04	9.05E-03	9.05E-03	3.34E-02	3.55E-04	3.56E-03	1.11E-02	2.49E-04	2.49E-04	9.05E-03	2.46E-02
3.48E-04	3.54E-03	1.07E-02	2.41E-04	8.37E-03	8.37E-03	3.16E-02	3.48E-04	3.54E-03	1.07E-02	2.41E-04	2.39E-04	8.37E-03	2.35E-02
3.50E-04	3.57E-03	1.08E-02	2.41E-04	8.33E-03	8.33E-03	3.16E-02	3.50E-04	3.57E-03	1.08E-02	2.41E-04	2.37E-04	8.33E-03	2.35E-02
3.60E-04	3.62E-03	1.12E-02	2.50E-04	8.89E-03	8.89E-03	3.33E-02	3.60E-04	3.62E-03	1.12E-02	2.50E-04	2.45E-04	8.89E-03	2.46E-02
3.70E-04	3.67E-03	1.17E-02	2.59E-04	9.42E-03	9.42E-03	3.49E-02	3.70E-04	3.67E-03	1.17E-02	2.59E-04	2.53E-04	9.42E-03	2.57E-02
3.79E-04	3.72E-03	1.22E-02	2.66E-04	1.01E-02	1.01E-02	3.68E-02	3.79E-04	3.72E-03	1.22E-02	2.66E-04	2.58E-04	1.01E-02	2.69E-02
3.89E-04	3.78E-03	1.26E-02	2.73E-04	1.08E-02	1.08E-02	3.87E-02	3.89E-04	3.78E-03	1.26E-02	2.73E-04	2.65E-04	1.08E-02	2.81E-02
4.01E-04	3.85E-03	1.31E-02	2.81E-04	1.13E-02	1.13E-02	4.03E-02	4.01E-04	3.85E-03	1.31E-02	2.81E-04	2.72E-04	1.13E-02	2.92E-02
4.13E-04	3.94E-03	1.37E-02	2.90E-04	1.16E-02	1.16E-02	4.16E-02	4.13E-04	3.94E-03	1.37E-02	2.90E-04	2.80E-04	1.16E-02	3.03E-02
4.27E-04	4.03E-03	1.43E-02	2.99E-04	1.21E-02	1.21E-02	4.32E-02	4.27E-04	4.03E-03	1.43E-02	2.99E-04	2.88E-04	1.21E-02	3.14E-02
4.42E-04	4.13E-03	1.49E-02	3.08E-04	1.25E-02	1.25E-02	4.48E-02	4.42E-04	4.13E-03	1.49E-02	3.08E-04	2.95E-04	1.25E-02	3.26E-02
4.58E-04	4.24E-03	1.55E-02	3.16E-04	1.32E-02	1.32E-02	4.68E-02	4.58E-04	4.24E-03	1.55E-02	3.16E-04	3.01E-04	1.32E-02	3.40E-02
4.79E-04	4.37E-03	1.63E-02	3.27E-04	1.34E-02	1.34E-02	4.82E-02	4.79E-04	4.37E-03	1.63E-02	3.27E-04	3.09E-04	1.34E-02	3.51E-02
5.01E-04	4.50E-03	1.70E-02	3.36E-04	1.42E-02	1.42E-02	5.08E-02	5.01E-04	4.50E-03	1.70E-02	3.36E-04	3.13E-04	1.42E-02	3.69E-02
5.07E-04	4.62E-03	1.71E-02	3.33E-04	1.29E-02	1.29E-02	4.84E-02	5.07E-04	4.62E-03	1.71E-02	3.33E-04	2.99E-04	1.29E-02	3.57E-02
4.89E-04	4.60E-03	1.62E-02	3.20E-04	1.13E-02	1.13E-02	4.43E-02	4.89E-04	4.60E-03	1.62E-02	3.20E-04	2.84E-04	1.13E-02	3.32E-02
4.73E-04	4.59E-03	1.54E-02	3.06E-04	1.02E-02	1.02E-02	4.12E-02	4.73E-04	4.59E-03	1.54E-02	3.06E-04	2.69E-04	1.02E-02	3.12E-02
4.59E-04	4.59E-03	1.47E-02	2.95E-04	9.08E-03	9.08E-03	3.82E-02	4.59E-04	4.59E-03	1.47E-02	2.95E-04	2.57E-04	9.08E-03	2.94E-02
4.64E-04	4.75E-03	1.46E-02	2.92E-04	8.74E-03	8.74E-03	3.76E-02	4.64E-04	4.75E-03	1.46E-02	2.92E-04	2.45E-04	8.74E-03	2.91E-02
4.87E-04	4.93E-03	1.53E-02	3.00E-04	9.29E-03	9.29E-03	3.96E-02	4.87E-04	4.93E-03	1.53E-02	3.00E-04	2.45E-04	9.29E-03	3.06E-02
5.12E-04	5.11E-03	1.60E-02	3.07E-04	1.00E-02	1.00E-02	4.20E-02	5.12E-04	5.11E-03	1.60E-02	3.07E-04	2.43E-04	1.00E-02	3.22E-02
5.42E-04	5.31E-03	1.69E-02	3.15E-04	9.75E-03	9.75E-03	4.25E-02	5.42E-04	5.31E-03	1.69E-02	3.15E-04	2.43E-04	9.75E-03	3.30E-02
5.76E-04	5.52E-03	1.77E-02	3.20E-04	9.52E-03	9.52E-03	4.31E-02	5.76E-04	5.52E-03	1.77E-02	3.20E-04	2.39E-04	9.52E-03	3.38E-02
6.16E-04	5.74E-03	1.86E-02	3.26E-04	8.97E-03	8.97E-03	4.32E-02	6.16E-04	5.74E-03	1.86E-02	3.26E-04	2.34E-04	8.97E-03	3.44E-02

6.63E-04	5.99E-03	1.97E-02	3.33E-04	7.97E-03	7.97E-03	4.26E-02	6.63E-04	5.99E-03	1.97E-02	3.33E-04	2.30E-04	7.97E-03	3.48E-02
7.19E-04	6.25E-03	2.07E-02	3.40E-04	7.39E-03	7.39E-03	4.28E-02	7.19E-04	6.25E-03	2.07E-02	3.40E-04	2.25E-04	7.39E-03	3.57E-02
7.90E-04	6.57E-03	2.23E-02	3.51E-04	6.12E-03	6.12E-03	4.23E-02	7.90E-04	6.57E-03	2.23E-02	3.51E-04	2.21E-04	6.12E-03	3.64E-02
8.74E-04	6.90E-03	2.37E-02	3.61E-04	4.73E-03	4.73E-03	4.13E-02	8.74E-04	6.90E-03	2.37E-02	3.61E-04	2.13E-04	4.73E-03	3.68E-02
9.81E-04	7.29E-03	2.56E-02	3.74E-04	3.48E-03	3.48E-03	4.12E-02	9.81E-04	7.29E-03	2.56E-02	3.74E-04	2.04E-04	3.48E-03	3.79E-02
1.11E-03	7.71E-03	2.70E-02	3.85E-04	2.84E-03	2.84E-03	4.19E-02	1.11E-03	7.71E-03	2.70E-02	3.85E-04	1.92E-04	2.84E-03	3.92E-02
1.27E-03	8.22E-03	2.88E-02	4.02E-04	2.35E-03	2.35E-03	4.34E-02	1.27E-03	8.22E-03	2.88E-02	4.02E-04	1.81E-04	2.35E-03	4.12E-02
1.45E-03	8.79E-03	2.95E-02	4.18E-04	2.05E-03	2.05E-03	4.43E-02	1.45E-03	8.79E-03	2.95E-02	4.18E-04	1.70E-04	2.05E-03	4.24E-02
1.66E-03	9.45E-03	2.93E-02	4.33E-04	1.85E-03	1.85E-03	4.45E-02	1.66E-03	9.45E-03	2.93E-02	4.33E-04	1.61E-04	1.85E-03	4.28E-02
1.86E-03	1.02E-02	2.82E-02	4.45E-04	1.69E-03	1.69E-03	4.41E-02	1.86E-03	1.02E-02	2.82E-02	4.45E-04	1.53E-04	1.69E-03	4.26E-02
2.05E-03	1.12E-02	2.73E-02	4.70E-04	1.51E-03	1.51E-03	4.40E-02	2.05E-03	1.12E-02	2.73E-02	4.70E-04	1.48E-04	1.51E-03	4.27E-02
2.19E-03	1.24E-02	2.45E-02	4.68E-04	1.44E-03	1.44E-03	4.24E-02	2.19E-03	1.24E-02	2.45E-02	4.68E-04	1.39E-04	1.44E-03	4.11E-02
2.37E-03	1.39E-02	2.17E-02	4.70E-04	1.36E-03	1.36E-03	4.12E-02	2.37E-03	1.39E-02	2.17E-02	4.70E-04	1.30E-04	1.36E-03	3.99E-02
2.55E-03	1.58E-02	1.87E-02	4.69E-04	1.28E-03	1.28E-03	4.01E-02	2.55E-03	1.58E-02	1.87E-02	4.69E-04	1.20E-04	1.28E-03	3.89E-02
2.80E-03	1.87E-02	1.59E-02	4.75E-04	1.20E-03	1.20E-03	4.03E-02	2.80E-03	1.87E-02	1.59E-02	4.75E-04	1.11E-04	1.20E-03	3.92E-02
3.12E-03	2.33E-02	1.29E-02	4.67E-04	1.12E-03	1.12E-03	4.20E-02	3.12E-03	2.33E-02	1.29E-02	4.67E-04	1.02E-04	1.12E-03	4.10E-02
3.54E-03	3.09E-02	1.02E-02	4.14E-04	1.06E-03	1.06E-03	4.72E-02	3.54E-03	3.09E-02	1.02E-02	4.14E-04	9.56E-05	1.06E-03	4.63E-02
4.33E-03	6.03E-02	7.13E-03	2.40E-04	9.67E-04	9.67E-04	7.39E-02	4.33E-03	6.03E-02	7.13E-03	2.40E-04	8.96E-05	9.67E-04	7.31E-02
4.47E-03	7.19E-02	6.20E-03	2.03E-04	9.33E-04	9.33E-04	8.46E-02	4.47E-03	7.19E-02	6.20E-03	2.03E-04	8.84E-05	9.33E-04	8.38E-02
4.77E-03	8.16E-02	5.56E-03	1.79E-04	9.02E-04	9.02E-04	9.40E-02	4.77E-03	8.16E-02	5.56E-03	1.79E-04	8.79E-05	9.02E-04	9.31E-02
5.50E-03	9.81E-02	4.65E-03	1.50E-04	8.37E-04	8.37E-04	1.10E-01	5.50E-03	9.81E-02	4.65E-03	1.50E-04	8.67E-05	8.37E-04	1.09E-01
5.93E-03	1.09E-01	4.31E-03	1.40E-04	8.02E-04	8.02E-04	1.21E-01	5.93E-03	1.09E-01	4.31E-03	1.40E-04	8.56E-05	8.02E-04	1.21E-01
8.80E-03	1.36E-01	3.83E-03	1.25E-04	7.53E-04	7.53E-04	1.50E-01	8.80E-03	1.36E-01	3.83E-03	1.25E-04	8.22E-05	7.53E-04	1.50E-01
9.94E-03	1.45E-01	3.52E-03	1.14E-04	7.12E-04	7.12E-04	1.60E-01	9.94E-03	1.45E-01	3.52E-03	1.14E-04	7.78E-05	7.12E-04	1.60E-01
9.84E-03	1.45E-01	3.39E-03	1.09E-04	6.92E-04	6.92E-04	1.60E-01	9.84E-03	1.45E-01	3.39E-03	1.09E-04	7.55E-05	6.92E-04	1.59E-01
9.66E-03	1.46E-01	3.26E-03	1.05E-04	6.73E-04	6.73E-04	1.60E-01	9.66E-03	1.46E-01	3.26E-03	1.05E-04	7.33E-05	6.73E-04	1.60E-01
9.57E-03	1.45E-01	3.15E-03	1.01E-04	6.56E-04	6.56E-04	1.59E-01	9.57E-03	1.45E-01	3.15E-03	1.01E-04	7.12E-05	6.56E-04	1.59E-01
9.39E-03	1.42E-01	3.03E-03	9.67E-05	6.41E-04	6.41E-04	1.56E-01	9.39E-03	1.42E-01	3.03E-03	9.67E-05	6.92E-05	6.41E-04	1.56E-01
9.12E-03	1.39E-01	2.93E-03	9.31E-05	6.27E-04	6.27E-04	1.52E-01	9.12E-03	1.39E-01	2.93E-03	9.31E-05	6.72E-05	6.27E-04	1.52E-01
9.07E-03	1.38E-01	2.83E-03	8.99E-05	6.13E-04	6.13E-04	1.51E-01	9.07E-03	1.38E-01	2.83E-03	8.99E-05	6.55E-05	6.13E-04	1.51E-01
8.83E-03	1.38E-01	2.73E-03	8.70E-05	5.99E-04	5.99E-04	1.51E-01	8.83E-03	1.38E-01	2.73E-03	8.70E-05	6.38E-05	5.99E-04	1.50E-01
8.67E-03	1.37E-01	2.64E-03	8.43E-05	5.86E-04	5.86E-04	1.49E-01	8.67E-03	1.37E-01	2.64E-03	8.43E-05	6.22E-05	5.86E-04	1.49E-01
8.66E-03	1.40E-01	2.56E-03	8.18E-05	5.73E-04	5.73E-04	1.52E-01	8.66E-03	1.40E-01	2.56E-03	8.18E-05	6.07E-05	5.73E-04	1.51E-01
8.48E-03	1.38E-01	2.48E-03	7.91E-05	5.65E-04	5.65E-04	1.50E-01	8.48E-03	1.38E-01	2.48E-03	7.91E-05	5.91E-05	5.65E-04	1.50E-01
8.43E-03	1.37E-01	2.41E-03	7.66E-05	5.58E-04	5.58E-04	1.49E-01	8.43E-03	1.37E-01	2.41E-03	7.66E-05	5.76E-05	5.58E-04	1.48E-01
8.36E-03	1.38E-01	2.34E-03	7.43E-05	5.51E-04	5.51E-04	1.50E-01	8.36E-03	1.38E-01	2.34E-03	7.43E-05	5.61E-05	5.51E-04	1.49E-01
8.34E-03	1.42E-01	2.27E-03	7.22E-05	5.42E-04	5.42E-04	1.54E-01	8.34E-03	1.42E-01	2.27E-03	7.22E-05	5.48E-05	5.42E-04	1.53E-01
7.32E-03	1.45E-01	2.16E-03	6.83E-05	5.29E-04	5.29E-04	1.56E-01	7.32E-03	1.45E-01	2.16E-03	6.83E-05	5.20E-05	5.29E-04	1.55E-01
6.83E-03	1.48E-01	2.11E-03	6.65E-05	5.22E-04	5.22E-04	1.58E-01	6.83E-03	1.48E-01	2.11E-03	6.65E-05	5.07E-05	5.22E-04	1.57E-01
6.61E-03	1.48E-01	2.05E-03	6.38E-05	5.12E-04	5.12E-04	1.58E-01	6.61E-03	1.48E-01	2.05E-03	6.38E-05	4.83E-05	5.12E-04	1.58E-01
6.39E-03	1.41E-01	2.01E-03	6.11E-05	5.01E-04	5.01E-04	1.51E-01	6.39E-03	1.41E-01	2.01E-03	6.11E-05	4.54E-05	5.01E-04	1.50E-01
6.43E-03	1.41E-01	1.98E-03	5.93E-05	4.95E-04	4.95E-04	1.50E-01	6.43E-03	1.41E-01	1.98E-03	5.93E-05	4.36E-05	4.95E-04	1.50E-01
6.52E-03	1.43E-01	1.96E-03	5.77E-05	4.87E-04	4.87E-04	1.52E-01	6.52E-03	1.43E-01	1.96E-03	5.77E-05	4.19E-05	4.87E-04	1.52E-01
6.62E-03	1.45E-01	1.94E-03	5.60E-05	4.79E-04	4.79E-04	1.55E-01	6.62E-03	1.45E-01	1.94E-03	5.60E-05	4.03E-05	4.79E-04	1.54E-01
6.64E-03	1.45E-01	1.92E-03	5.44E-05	4.74E-04	4.74E-04	1.54E-01	6.64E-03	1.45E-01	1.92E-03	5.44E-05	3.87E-05	4.74E-04	1.54E-01
9.04E-03	1.71E-01	1.85E-03	5.13E-05	4.61E-04	4.61E-04	1.83E-01	9.04E-03	1.71E-01	1.85E-03	5.13E-05	3.62E-05	4.61E-04	1.83E-01
8.95E-03	1.71E-01	1.82E-03	4.98E-05	4.57E-04	4.57E-04	1.82E-01	8.95E-03	1.71E-01	1.82E-03	4.98E-05	3.48E-05	4.57E-04	1.82E-01
8.85E-03	1.70E-01	1.79E-03	4.82E-05	4.52E-04	4.52E-04	1.82E-01	8.85E-03	1.70E-01	1.79E-03	4.82E-05	3.35E-05	4.52E-04	1.81E-01
8.77E-03	1.70E-01	1.76E-03	4.68E-05	4.47E-04	4.47E-04	1.81E-01	8.77E-03	1.70E-01	1.76E-03	4.68E-05	3.24E-05	4.47E-04	1.81E-01
8.69E-03	1.70E-01	1.73E-03	4.53E-05	4.42E-04	4.42E-04	1.82E-01	8.69E-03	1.70E-01	1.73E-03	4.53E-05	3.13E-05	4.42E-04	1.81E-01
8.63E-03	1.71E-01	1.69E-03	4.39E-05	4.36E-04	4.36E-04	1.82E-01	8.63E-03	1.71E-01	1.69E-03	4.39E-05	3.03E-05	4.36E-04	1.82E-01
8.79E-03	1.79E-01	1.64E-03	4.25E-05	4.23E-04	4.23E-04	1.90E-01	8.79E-03	1.79E-01	1.64E-03	4.25E-05	2.94E-05	4.23E-04	1.90E-01
8.72E-03	1.78E-01	1.59E-03	4.12E-05	4.19E-04	4.19E-04	1.90E-01	8.72E-03	1.78E-01	1.59E-03	4.12E-05	2.85E-05	4.19E-04	1.89E-01
8.66E-03	1.79E-01	1.54E-03	3.99E-05	4.15E-04	4.15E-04	1.90E-01	8.66E-03	1.79E-01	1.54E-03	3.99E-05	2.78E-05	4.15E-04	1.89E-01

8.64E-03	1.79E-01	1.49E-03	3.88E-05	4.12E-04	4.12E-04	1.90E-01	8.64E-03	1.79E-01	1.49E-03	3.88E-05	2.71E-05	4.12E-04	1.89E-01
8.56E-03	1.77E-01	1.45E-03	3.78E-05	4.10E-04	4.10E-04	1.88E-01	8.56E-03	1.77E-01	1.45E-03	3.78E-05	2.65E-05	4.10E-04	1.88E-01
8.64E-03	1.82E-01	1.39E-03	3.67E-05	4.04E-04	4.04E-04	1.93E-01	8.64E-03	1.82E-01	1.39E-03	3.67E-05	2.60E-05	4.04E-04	1.92E-01
8.56E-03	1.80E-01	1.35E-03	3.59E-05	4.05E-04	4.05E-04	1.90E-01	8.56E-03	1.80E-01	1.35E-03	3.59E-05	2.55E-05	4.05E-04	1.90E-01
8.40E-03	1.75E-01	1.30E-03	3.52E-05	4.09E-04	4.09E-04	1.85E-01	8.40E-03	1.75E-01	1.30E-03	3.52E-05	2.50E-05	4.09E-04	1.85E-01
8.29E-03	1.71E-01	1.26E-03	3.46E-05	4.10E-04	4.10E-04	1.81E-01	8.29E-03	1.71E-01	1.26E-03	3.46E-05	2.46E-05	4.10E-04	1.81E-01
8.01E-03	1.64E-01	1.22E-03	3.40E-05	4.14E-04	4.14E-04	1.74E-01	8.01E-03	1.64E-01	1.22E-03	3.40E-05	2.43E-05	4.14E-04	1.73E-01
7.77E-03	1.59E-01	1.18E-03	3.34E-05	4.14E-04	4.14E-04	1.69E-01	7.77E-03	1.59E-01	1.18E-03	3.34E-05	2.39E-05	4.14E-04	1.69E-01
7.90E-03	1.63E-01	1.13E-03	3.27E-05	4.08E-04	4.08E-04	1.73E-01	7.90E-03	1.63E-01	1.13E-03	3.27E-05	2.36E-05	4.08E-04	1.72E-01
8.43E-03	1.80E-01	1.06E-03	3.15E-05	3.90E-04	3.90E-04	1.90E-01	8.43E-03	1.80E-01	1.06E-03	3.15E-05	2.30E-05	3.90E-04	1.90E-01
8.46E-03	1.83E-01	1.02E-03	3.07E-05	3.82E-04	3.82E-04	1.93E-01	8.46E-03	1.83E-01	1.02E-03	3.07E-05	2.27E-05	3.82E-04	1.93E-01
8.43E-03	1.83E-01	9.73E-04	3.00E-05	3.77E-04	3.77E-04	1.93E-01	8.43E-03	1.83E-01	9.73E-04	3.00E-05	2.24E-05	3.77E-04	1.93E-01
8.44E-03	1.84E-01	9.33E-04	2.93E-05	3.70E-04	3.70E-04	1.95E-01	8.44E-03	1.84E-01	9.33E-04	2.93E-05	2.21E-05	3.70E-04	1.94E-01
8.41E-03	1.84E-01	8.99E-04	2.87E-05	3.66E-04	3.66E-04	1.94E-01	8.41E-03	1.84E-01	8.99E-04	2.87E-05	2.19E-05	3.66E-04	1.93E-01
8.32E-03	1.82E-01	8.70E-04	2.83E-05	3.63E-04	3.63E-04	1.92E-01	8.32E-03	1.82E-01	8.70E-04	2.83E-05	2.17E-05	3.63E-04	1.91E-01
8.36E-03	1.84E-01	8.38E-04	2.77E-05	3.56E-04	3.56E-04	1.94E-01	8.36E-03	1.84E-01	8.38E-04	2.77E-05	2.15E-05	3.56E-04	1.94E-01
8.36E-03	1.86E-01	8.10E-04	2.72E-05	3.50E-04	3.50E-04	1.95E-01	8.36E-03	1.86E-01	8.10E-04	2.72E-05	2.13E-05	3.50E-04	1.95E-01
8.34E-03	1.86E-01	7.88E-04	2.68E-05	3.45E-04	3.45E-04	1.96E-01	8.34E-03	1.86E-01	7.88E-04	2.68E-05	2.11E-05	3.45E-04	1.96E-01
8.29E-03	1.87E-01	7.67E-04	2.64E-05	3.40E-04	3.40E-04	1.97E-01	8.29E-03	1.87E-01	7.67E-04	2.64E-05	2.10E-05	3.40E-04	1.97E-01
8.09E-03	1.78E-01	7.70E-04	2.69E-05	3.50E-04	3.50E-04	1.87E-01	8.09E-03	1.78E-01	7.70E-04	2.69E-05	2.09E-05	3.50E-04	1.87E-01
8.04E-03	1.76E-01	7.59E-04	2.68E-05	3.48E-04	3.48E-04	1.86E-01	8.04E-03	1.76E-01	7.59E-04	2.68E-05	2.08E-05	3.48E-04	1.85E-01
7.91E-03	1.72E-01	7.52E-04	2.67E-05	3.48E-04	3.48E-04	1.82E-01	7.91E-03	1.72E-01	7.52E-04	2.67E-05	2.06E-05	3.48E-04	1.81E-01
7.93E-03	1.73E-01	7.41E-04	2.65E-05	3.43E-04	3.43E-04	1.83E-01	7.93E-03	1.73E-01	7.41E-04	2.65E-05	2.05E-05	3.43E-04	1.82E-01
7.92E-03	1.73E-01	7.31E-04	2.62E-05	3.38E-04	3.38E-04	1.82E-01	7.92E-03	1.73E-01	7.31E-04	2.62E-05	2.03E-05	3.38E-04	1.82E-01
7.80E-03	1.70E-01	7.23E-04	2.60E-05	3.34E-04	3.34E-04	1.79E-01	7.80E-03	1.70E-01	7.23E-04	2.60E-05	2.01E-05	3.34E-04	1.78E-01
7.76E-03	1.69E-01	7.12E-04	2.57E-05	3.27E-04	3.27E-04	1.78E-01	7.76E-03	1.69E-01	7.12E-04	2.57E-05	1.99E-05	3.27E-04	1.78E-01
7.69E-03	1.68E-01	7.04E-04	2.54E-05	3.20E-04	3.20E-04	1.77E-01	7.69E-03	1.68E-01	7.04E-04	2.54E-05	1.97E-05	3.20E-04	1.77E-01
7.56E-03	1.68E-01	6.95E-04	2.52E-05	3.12E-04	3.12E-04	1.77E-01	7.56E-03	1.68E-01	6.95E-04	2.52E-05	1.96E-05	3.12E-04	1.76E-01
7.52E-03	1.67E-01	6.89E-04	2.49E-05	3.06E-04	3.06E-04	1.76E-01	7.52E-03	1.67E-01	6.89E-04	2.49E-05	1.94E-05	3.06E-04	1.76E-01
7.61E-03	1.69E-01	6.81E-04	2.46E-05	2.99E-04	2.99E-04	1.78E-01	7.61E-03	1.69E-01	6.81E-04	2.46E-05	1.92E-05	2.99E-04	1.78E-01
7.84E-03	1.76E-01	6.69E-04	2.41E-05	2.88E-04	2.88E-04	1.85E-01	7.84E-03	1.76E-01	6.69E-04	2.41E-05	1.90E-05	2.88E-04	1.85E-01
7.89E-03	1.81E-01	6.55E-04	2.35E-05	2.73E-04	2.73E-04	1.90E-01	7.89E-03	1.81E-01	6.55E-04	2.35E-05	1.86E-05	2.73E-04	1.90E-01
7.88E-03	1.83E-01	6.51E-04	2.33E-05	2.68E-04	2.68E-04	1.92E-01	7.88E-03	1.83E-01	6.51E-04	2.33E-05	1.85E-05	2.68E-04	1.92E-01
8.07E-03	1.91E-01	6.45E-04	2.29E-05	2.61E-04	2.61E-04	2.00E-01	8.07E-03	1.91E-01	6.45E-04	2.29E-05	1.83E-05	2.61E-04	2.00E-01
8.47E-03	2.07E-01	6.37E-04	2.25E-05	2.53E-04	2.53E-04	2.17E-01	8.47E-03	2.07E-01	6.37E-04	2.25E-05	1.81E-05	2.53E-04	2.16E-01
9.76E-03	2.48E-01	6.22E-04	2.17E-05	2.36E-04	2.36E-04	2.59E-01	9.76E-03	2.48E-01	6.22E-04	2.17E-05	1.78E-05	2.36E-04	2.58E-01
9.35E-03	2.35E-01	6.27E-04	2.17E-05	2.31E-04	2.31E-04	2.46E-01	9.35E-03	2.35E-01	6.27E-04	2.17E-05	1.77E-05	2.31E-04	2.45E-01
8.50E-03	2.32E-01	6.30E-04	2.15E-05	2.21E-04	2.21E-04	2.41E-01	8.50E-03	2.32E-01	6.30E-04	2.15E-05	1.76E-05	2.21E-04	2.41E-01
8.19E-03	2.27E-01	6.32E-04	2.15E-05	2.16E-04	2.16E-04	2.36E-01	8.19E-03	2.27E-01	6.32E-04	2.15E-05	1.75E-05	2.16E-04	2.36E-01
8.29E-03	2.36E-01	6.25E-04	2.11E-05	2.09E-04	2.09E-04	2.45E-01	8.29E-03	2.36E-01	6.25E-04	2.11E-05	1.74E-05	2.09E-04	2.45E-01
7.85E-03	2.27E-01	6.24E-04	2.10E-05	2.05E-04	2.05E-04	2.36E-01	7.85E-03	2.27E-01	6.24E-04	2.10E-05	1.74E-05	2.05E-04	2.35E-01
7.52E-03	2.18E-01	6.22E-04	2.08E-05	2.00E-04	2.00E-04	2.27E-01	7.52E-03	2.18E-01	6.22E-04	2.08E-05	1.73E-05	2.00E-04	2.27E-01
4.39E-03	1.19E-01	5.48E-04	1.88E-05	1.69E-04	1.69E-04	1.24E-01	4.39E-03	1.19E-01	5.48E-04	1.88E-05	1.61E-05	1.69E-04	1.24E-01
8.65E-03	2.25E-01	5.86E-04	1.96E-05	1.83E-04	1.83E-04	2.35E-01	8.65E-03	2.25E-01	5.86E-04	1.96E-05	1.66E-05	1.83E-04	2.35E-01
7.20E-03	1.70E-01	5.92E-04	1.97E-05	1.85E-04	1.85E-04	1.78E-01	7.20E-03	1.70E-01	5.92E-04	1.97E-05	1.67E-05	1.85E-04	1.78E-01
8.47E-03	1.70E-01	5.85E-04	1.94E-05	1.83E-04	1.83E-04	1.80E-01	8.47E-03	1.70E-01	5.85E-04	1.94E-05	1.64E-05	1.83E-04	1.80E-01
9.80E-03	2.04E-01	5.69E-04	1.89E-05	1.79E-04	1.79E-04	2.14E-01	9.80E-03	2.04E-01	5.69E-04	1.89E-05	1.60E-05	1.79E-04	2.14E-01
1.03E-02	2.12E-01	5.55E-04	1.85E-05	1.75E-04	1.75E-04	2.23E-01	1.03E-02	2.12E-01	5.55E-04	1.85E-05	1.57E-05	1.75E-04	2.23E-01
1.07E-02	2.19E-01	5.43E-04	1.81E-05	1.71E-04	1.71E-04	2.31E-01	1.07E-02	2.19E-01	5.43E-04	1.81E-05	1.54E-05	1.71E-04	2.30E-01
1.09E-02	2.18E-01	5.34E-04	1.78E-05	1.69E-04	1.69E-04	2.30E-01	1.09E-02	2.18E-01	5.34E-04	1.78E-05	1.52E-05	1.69E-04	2.30E-01
1.14E-02	2.20E-01	5.28E-04	1.76E-05	1.68E-04	1.68E-04	2.32E-01	1.14E-02	2.20E-01	5.28E-04	1.76E-05	1.50E-05	1.68E-04	2.32E-01
1.10E-02	1.99E-01	5.31E-04	1.76E-05	1.70E-04	1.70E-04	2.11E-01	1.10E-02	1.99E-01	5.31E-04	1.76E-05	1.50E-05	1.70E-04	2.11E-01
1.13E-02	1.96E-01	5.27E-04	1.75E-05	1.69E-04	1.69E-04	2.08E-01	1.13E-02	1.96E-01	5.27E-04	1.75E-05	1.48E-05	1.69E-04	2.08E-01
1.20E-02	2.02E-01	5.16E-04	1.72E-05	1.66E-04	1.66E-04	2.14E-01	1.20E-02	2.02E-01	5.16E-04	1.72E-05	1.45E-05	1.66E-04	2.14E-01

Chronic Hazard

1.23E-02	2.01E-01	5.09E-04	1.69E-05	1.64E-04	1.64E-04	2.14E-01	1.23E-02	2.01E-01	5.09E-04	1.69E-05	1.43E-05	1.64E-04	2.14E-01

APPENDIX B

Barstow International Gateway Corridor Emissions Analysis

BNSF BARSTOW INTERNATION GATEWAY CORRIDOR EMISSIONS ANALYSIS

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1.0 INTRODUCTION

BNSF Railway Company's (BNSF) has proposed its Barstow International Gateway (BIG) Project (Proposed Project), which is located in Barstow, California. BIG has two primary components when evaluating the effects on air quality under the California Environmental Quality Act (CEQA): first, the facility itself, including the lead tracks; second, the rail corridor between the San Pedro Bay Ports in Los Angeles metropolitan area and the Needles substation near the California and Arizona Border (Corridor), which will see increased locomotive activity associated with BIG. This analsyis concerns the Corridor component.

The purpose of this analysis is to present the terminology, assumptions, methodologies, and results from the Corridor Emissions Model (CEM) for the modeling of air emissions associated with the BNSF locomotives operating on the Corridor. The western portion of the Corridor is located within the jurisdiction of the South Coast Air Quality Management District (SCAQMD), and the eastern portion is within the jurisdiction of the Mojave Desert Air Quality Management District (MDAQMD). The rail station of Summit delineates the boundary between the SCAQMD and MDAQMD along the Corridor. The CEM specifically evaluates air emissions from rail movements along the entirety of the Corridor under both a "Proposed Project" condition (i.e., BIG obtains all necessary approvals and is built) and a "No Project" condition (i.e., BIG is not built). (See Figure 1). While the emissions associated with rail movements along the Corridor were evaluated under the CEM, the emissions in and around the BIG facility were evaluated separately by Kimley-Horn, BNSF's CEQA consultant. A glossary of terms is provided at the end of this memorandum and the results of the CEM are presented in a separate report. The description of the BIG Project as it affects the CEM was provided by BNSF.

1.1 Objective

The objective of this analysis is to provide BNSF with an assessment of the air emissions associated with BNSF's activities on the Corridor under both the Project and No Project conditions in the three years analyzed in the EIR – 2028 (opening year), 2033 (interim operational year), and 2048 (full operational capacity) for both the Proposed Project and No Project scenarios. This analysis has a number of important technical functions. First, the analyis provides for the disclosure of mass emissions of criteria pollutants and GHG emissions on the Corridor in both the SCAQMD and MDAQMD for both the No Project and the Proposed Project scenarios. Additionally, this analysis provides a direct comparison of No Project and Proposed Project emissions on the Corridor.

2.0 BIG FACILITY DESCRIPTION

The BIG facility would consist of an intermodal facility (i.e., where cross-dock intermodal operations and other intermodal facility operations would occur and where support intermodal facility uses would be located), a block swap yard, and ancillary rail areas (i.e., container yard, chassis storage, and ancillary rail storage area). BIG's proposed rail yard would operate 24 hours per day, 365 days per year.

2.1 Intermodal Facility (IMF) and Cross-dock Intermodal Operations

BIG's intermodal facility (IMF) operations would consist of two types: cross-dock intermodal and "other" operations. Under existing conditions, goods arrive at the San Pedro Ports in 20-foot and 40-foot intermodal containers (international containers). Some of these containers are unloaded from ships onto heavy-duty trucks, hauled to local warehouses in the Los Angeles Basin, Orange County, and Inland Empire and transloaded into 53-foot intermodal containers (domestic containers), while some containers travel even further east before being transloaded. Similarly, goods from inland origins destined for the San Pedro Ports would travel west via rail or heavy-duty truck to local warehouses in the Los Angeles Basin, Orange County, and Inland Empire and be transloaded from domestic containers into international containers and then continue by heavy-duty truck to the Port. With BIG, a significant portion of these containers would instead be taken directly by train from the Ports to BIG utilizing a dedicated fleet of Tier 4 linehaul locomotives, where they would be transloaded at on-site warehouses as part of BIG's cross-dock intermodal operations. The cross-dock intermodal operation is a container-movement operation unique to BIG in which containers would be processed as follows: international containers loaded onto trains on-dock at the Ports; transported by train via a dedicated fleet of Tier 4 linehaul locomotives to the proposed BIG intermodal facility; taken by electric hostlers to the proposed on-site transload warehouse center; transloaded into domestic containers; taken by electric hostlers back to BIG intermodal facility; and loaded onto outbound trains at the intermodal facility. BIG IMF would also accommodate a small percentage of other intermodal operations to reduce the travel distance/travel time due to traffic conditions that the container would otherwise travel coming to/from other local destinations near BIG.

2.2 Block Swap Yard

The Proposed Project block swap yard would allow for the transfer of multiple railcars, or "blocks" of intermodal rail cars between trains. A block is defined as rail cars of a similar type moving to a similar destination that are already connected and can be combined with other blocks intended for similar destinations to produce more efficient train movements. The entire block of rail cars would remain coupled together and be moved en-masse, permitting the synchronizing of blocks

to their destinations, so that each train would be compiled of rail car blocks traveling to a similar destination. Blocks could be assembled from inbound trains or trains processed at the intermodal facility carrying containers processed at the transload warehouse center. Certain train blocks may stage at the block swap yard until another train arrives with similar destination. The block swap yard would facilitate switching and transfer of lengthy rail car blocks between tracks for assembling departing trains. Thus, by synchronizing trains to their destinations, the block swap yard would improve train efficiency eastbound and westbound. The rail car blocks within the block swap yard would include containers from BIG's IMF and containers processed at the transload warehouse center, combining as needed based on their destination.

2.3 Ancillary Rail Area

The ancillary rail storage area is an approximately 400-acre area north of the existing mainline and would be graded and covered with aggregate to be used for numerous purposes, including a container yard, truck chassis storage, and storage of maintenance equipment. A container yard would support the storage of empty containers awaiting loading while chassis storage would be used to provide parking for empty chassis awaiting use for loading, unloading, or drying of containers. The ancillary rail storage area would also be used for storage of spare parts and equipment for track maintenance, including rail, ties, turnouts, and other track material. Operational emissions from the ancillary rail area are not included in this analysis.

3.0 CEM COMPONENTS OVERVIEW

The BIG CEM calculates air emissions for the Proposed Project and No Project scenarios using actual train movement data between quarter two of 2022 and quarter one of 2023 to model future scenario emissions along the Corridor as described herein.

The CEM is composed of six major components in both the Proposed Project and No Project scenarios and in all modeled operational analysis years: "Train Profiles," "Train Trips," "Fleet Mix," "Fuel Blend," and "Fuel Efficiency."

- "Train Profiles" are the physical characteristics of a train such as the number of locomotives, locomotive weight, freight weight, direction of travel, and distance traveled for an average train type along the Corridor. Actual train compositions vary daily; therefore, an annual average was used to generate representative train profiles for each train type.

- "Train Trips" refers to the number of trips for each train type.

- "Fleet Mix" represents the blend of locomotive types used for each scenario and modeled for each operational analysis year; locomotive types are classified by the engine tier, ranging from Tier 1 to Tier 4 in this model.

- "Fuel Blend" refers to the mix of conventional and renewable fuels used for each scenario and modeled for each operational analysis year. Starting in BIG opening year 2028, as part of the Proposed Project, BNSF has committed to increase the renewable diesel composition within southern California from 1 percent to 10 percent, a 9-percentage point increase in renewable diesel for eastbound movements. This is a region-wide average and not indicative of an increase at any specific site within southern California. The renewable diesel fuel blend will remain at 1 percent for No Project.

- "Fuel Emission Factors" are a standardized value representing the amount of a pollutant or greenhouse gas released per unit of a specific activity. The emission factors for the CEM are adjusted for locomotive technology and activity type.

- To estimate the "Fuel Efficiency" for the various scenarios and modeled operational analysis years, the CEM incorporates the BNSF Fuel Efficiency Model (FEM), a regression model based on actual 2023 Corridor fuel usage data provided by BNSF.

Table 1
Summary of CEM Components for Proposed Project Compared to the No Project Scenario

Component	No Project	Proposed Project
Train Profiles	Includes number of locomotives, locomotive weight, freight weight, direction of travel, distance traveled, and idling time. See Appendix A, which is based on 2022/2023 BNSF data, and which was developed in coordination with BNSF.	Identical to the No Project scenario.
Train Trips	Assumes compounded annual growth rates (CAGR) between 1% and 2.5% for Z, Q, and S trains and no growth for all other trains. CAGRs provided by BNSF. See Appendix B for details.	CAGR of 2.5% for Z trains. Volume adjusted change in train trips for Q and S trains. No growth for all other trains. CAGRs provided by BNSF. See Appendix B for details.
Fleet Mix	Based on 2023 report for the 1998 MOU and adjusted for full conversion of Tier 0 and 1 to Tier 1+ and Tier 2 to Tier 2+. Annual Tier 4 purchases with associated Tier 1 retirements based on 5-year historical average replacement rates.	Identical to the No Project scenario except for the additional Dedicated Fleet of Tier 4 locomotives for the additional S train container volume (generated by the mode shift from truck to rail) between the San Pedro Ports and BIG.
Fuel Blend	1 percent renewable diesel for eastbound trips. Zero renewable for westbound trips.	10 percent renewable diesel for eastbound trips. Zero renewable for westbound trips.
Fuel Emission Factors	Based on line-haul locomotives. Criteria pollutant emissions factors based on EPA. GHG emission factors based on CARB.	Identical to the No Project scenario.
Fuel Efficiency	Regression model based on 2023 BNSF data. See Appendix D which was developed in coordination with BNSF.	Identical to the No Project scenario.

For the CEM, trains fall into two categories, Non-Affected and Affected Trains. The "Train Profiles" and "Train Trips" of Non-Affected Trains are expected to remain unchanged in both the Proposed Project and No Project scenarios between each modeled operational analysis year because the average physical characteristics of those trains are not affected by the Proposed Project. Affected Trains consist of B, Q, and S trains. The "Train Profiles" for Affected Trains are not expected to change between the Proposed Project and No Project scenarios in each modeled operational analysis year because the average physical characteristics of those trains are not expected to change under the Proposed Project. However, the "Train Trips" for the Affected Trains are anticipated to change between the Proposed Project and No Project scenarios in each modeled operational analysis year because, as the Proposed Project is a mode shift from truck to rail, the total volume of goods moving through the Corridor is affected by the Proposed Project. Since the average physical characteristic (Train Profiles) of those trains do not change in the CEM, the number of "Train Trips" is changed in the CEM to accommodate the change in volume. "Fleet Mix," "Fuel Blend," and "Fuel Efficiency" are applied equally to both Non-Affected and Affected Trains and only varies between Proposed Project and No Project scenarios.

3.1 CEM Methodology

As stated earlier, one of the objectives of the CEM was to model mass emissions of criteria pollutants on the Corridor associated with BIG as these must be disclosed in the EIR. The CEM estimates peak daily and annual emissions for both moving emissions and idling emissions for

trains in the Corridor. The peak daily emissions are based on the annual average result with a 13% safety margin. The methodologies for estimating these emissions for both the Proposed Project and No Project scenarios are discussed below.

3.1.1 Train Types

The CEM estimates emission from six train types. The six train types are described below.

- Z (Priority) trains: Trains that primarily consist of domestic containers with expedited delivery times such as FedEx and UPS, as well as some other high-priority intermodal goods, that have a guaranteed delivery time.

- S (Stack) trains: Trains composed of international containers that arrive at the San Pedro Ports and are loaded on-dock directly on to railcars for transport eastward as an Inland Point Intermodal (IPI) rail transport destined for a specific inland destination

- Q (Premium) trains: Trains that contain mostly domestic containers, which are primarily trucked from the San Pedro Ports to local warehouses where they are sorted and repackaged and then trucked to a BNSF intermodal facility for eastbound destinations. These trains also contain some international containers.

- B (Bare table) trains: Trains that do not carry loaded containers. They are used to move locomotives and empty equipment or equipment with only empty containers between rail stations on the rail network.

- All other trains (non-intermodal): All other trains (non-intermodal) are trains that are not composed of standard 20-foot, 40-foot or 53-foot intermodal containers. They are typically used to transport general merchandise such as liquids and bulk commodities such as grain, coal, and automobiles.

3.1.2 Corridor Segments

The CEM breaks the Corridor into four segments, including 1) San Pedro Ports to San Bernardino station, 2) San Bernardino station to Summit station, 3) Summit station to Barstow station/BIG, and 4) Barstow station/BIG to Needles station. Segment 1 between the San Pedro Ports and San Bernardino is part of the flatter geological Los Angeles basin region and is fully contained within the jurisdiction of SCAQMD. The topography of the mountainous region between the San Bernardino and Barstow stations (Segments 2 and 3) is remarkably different from the flatter

Los Angeles basin, therefore, is distinguished from the segment between the San Pedro Ports and San Bernardino Station (Segment 1). This mountainous region is further divided into two segments. This is because the boundary between SCAQMD and MDAQMD is near the Summit station, therefore, the mountainous region between San Bernardino and Barstow is divided into two distinct segments at the Summit station. Segment 4 is the geographical region between the Barstow and the Needles stations, which is entirely within the jurisdiction of MDAQMD.

3.1.3 Moving Emissions

Moving emissions are emissions associated with each train movement within the Corridor. Moving emissions are calculated by multiplying the gross tonnage of the train (freight plus locomotive weight) and the total miles the train traveled through the Corridor to produce the gross ton–mile. The gross ton–mile is combined with the fuel efficiency of the train from the FEM, which accounts for the direction the train is traveling using a positive or negative grade slope of the Corridor. Lastly, the model calculates a composite emission factor using the United States Environmental Protection Agency (U.S. EPA) Locomotive Line-Haul Tier Emission Factors. The composite emission factor is a weighted average, determined by the fleet mix (percentage of locomotives in each tier within the fleet), which is detailed in the "Fleet Mix" section below. Equation 1 describes the variables associated with calculating the total moving emissions for each pollutant; with the total emissions value calculated for each train trip by multiplying the total number of trains. Equation 2 demonstrates the calculation for the FEM, and Equation 3 details the calculation method for determining the composite emission factor for each pollutant. All three equations are used to calculate moving emissions.

Equation 1.

$$Moving\ Emissions_i = \left(Freight\ Weight\left(\frac{tons}{train}\right) + Locomotive\ Weight\left(\frac{tons}{train}\right)\right) \times Corridor\ Distance\left(\frac{miles}{trip}\right) \times \text{Number of Train Trips}\ (train - trips) \div Fuel\ Efficiency\left(\frac{gross\ ton - miles}{gallon}\right) \times EF_{iRR}\left(\frac{g}{gallon}\right)$$

Equation 2.

$$Fuel\ Efficiency = Intercept\ (directional) + Grade\ Coefficent * Grade + Distance\ Coefficeint * Distance + Weight\ Coefficient * Weight + HPT\ Coefficient * HPT$$

Equation 3.

$$EF_{iRR} = \sum_{T=1}^{9} (EF_{iT} \times f_{TRR})$$

where,

EF_{iRR} = *Composite Emission Factor for pollutant i for Class I railroad (grams/gallon)*

EF_{iT} = *Emission Factor for pollutant i for locomotives in Tier T (grams/gallon)*

f_{TRR} = *Fraction of fleet in Tier T.*

3.1.4 Idling Emissions

Idling emissions are emissions within the Corridor for all locomotives under minimum operating conditions (idling throttle position) while stationary. For this calculation, each line-haul locomotive is assumed to produce 25 horsepower during idling, with a brake-specific fuel consumption rate of 20.8 brake horsepower hour per gallon (U.S. EPA: Emission Factors for Locomotives, 2009). Equation 4 describes all the variables associated with calculating the total idling emissions for each pollutant, which are then multiplied by the total number of trains. The same equation was used for both the Project and No Project scenarios

Equation 4.

$$Idling\ Emissions_i = \text{Number of Locomotives per Train } \left(\frac{loco}{train}\right) \times \text{Number of Trains } (trains) \times \text{Idling Time (hr)} \times Idling\ Power \left(\frac{bhp}{loco}\right) \div Brake\ Specific\ Fuel\ Consumption \left(\frac{bhp - hr}{gallon}\right) \times EF_{iRR} \left(\frac{g}{gallon}\right)$$

3.2 CEM Components and Assumptions

This analysis provides an overview of the six major aspects of the CEM. This section describes the additional technical details and the underlying assumptions for the Proposed Project and No Project scenarios.

3.2.1 Train Profiles

The train profiles are based on actual 2022-2023 train data provided by BNSF and have been defined for both the Proposed Project and No Project scenarios. See Appendix A. The train profiles define key characteristics for a typical train, by train type, along the Corridor including the number of locomotives, locomotive weight, freight weight, direction of travel, distance traveled, and idling time. That is to say, a typical S train may have a slightly different annual average number of locomotives, locomotive weight, freight weight, direction of travel, idling time, and distance traveled when compared to a different train type within the Corridor. Detailed train profiles can be found in Appendix A.

The number of locomotives on each train is determined by the Horsepower-per-Tons (HPTs), which represent the theoretical locomotive power required to move a train of a measured weight across a given distance. The HPT value is assigned by BNSF based on train type, priority, and terrain.

The formula for calculating the number of locomotives required for an individual train in the real world is presented in Equation 5:

Equation 5.

$$\text{Number of locomotives} = \frac{\text{Train freight weight x HPT}}{4{,}400 \text{ horsepower per locomotive}}$$

The resulting value is then rounded up to the nearest number of whole locomotives. For example, if an 8,000-ton train has an HPT of 2.5, the required number of locomotives for the train would be 5 (8,000*2.5/4,400 = 4.5). While real world trains only operate with whole numbers of locomotives, the CEM is based on fractional locomotives since the train profiles are averaged based on an annual average for each train type, which is also factional. The only exception to this calculation is for B trains (barterable trains), which, due to not carrying freight weight on the railcars, only have two locomotives, and so are assumed to operate with two locomotives in the CEM model.

The weight of each locomotive is based on an assumption of 209 tons per engine with an additional 18 tons per full tank of fuel per engine. The CEM conservatively assumes each locomotive carries a full tank of fuel throughout the Corridor. The weight of the locomotive also includes the weight of the freight which is determined by taking the total weight of freight moved

through each segment of the Corridor and dividing by the number of trains that pass through that same segment, providing an average weight of freight per train for each corridor segment.

The mileage of each train trip is the distance traveled in each segment of the Corridor and is based on average distance traveled by train type for terminating segments and fixed distances for middle segments. The mileages for Segments 2, 3, and 4 are fixed distances because trains are not expected to terminate their trip anywhere along these middle segments. In other words, once a train enters any of these middle segments, it is expected to complete its journey through the segment. This is also true for S trains that traverse Segment 1. S trains in Segment 1 are assumed to travel the full distance between the San Pedro Ports and the San Bernardino station; therefore, their mileage is based on a fixed distance. The mileage for remaining train types that traverse Segment 1 are calculated based on the total miles traveled in a year divided by total train trips in a year, providing an average mileage per train. Unlike the trains in the middle segments (Segments 2, 3, and 4), most trains that are in Segment 1 can terminate their trip along several stations within the segment, shortening their mileage when compared to the full distance of the segment.

Idling time represents the amount of time a train will run their engines in the "idling" throttle position in each segment. The average idling times in each segment of the Corridor for each train type for the Project and No Project scenarios are presented in hours per trip. The average idling times were provided by BNSF.

3.2.2 Train Trips

The number of train trips is based on actual quarter two 2022 through quarter one 2023 data provided by BNSF shown in Appendix A (the most recent year for which data was available when the modeling commenced), and the daily train trip rate was generated by summing the total number of train trips in each segment and dividing by 365 days per year. The number of daily train trips is not expected to change for most train types in any scenario. The only train types that are expected to experience growth on the Corridor for each scenario are Z trains and Affected trains (B, S and Q trains). Affected Trains (B, S and Q trains) are trains that are affected by the change in any of the following three categories of movement: 1) volume of international containers related to the Proposed Project based on the mode shift from truck to S trains between the San Pedro Ports and BIG IMF, 2) the change in volume of domestic containers transloaded on to eastbound Q trains from international containers at BIG IMF, and 3) regional domestic containers on trucks that will go directly to BIG IMF to be placed on eastbound Q trains, instead

of traveling by truck to other BNSF Intermodal facilities further west. Affected train movements are further described below:

- S (Stack) trains: With BIG, additional S trains will depart from the San Pedro Ports due to the mode shift from truck to train and arrive at BIG's IMF for transloading at the on–site warehouses. Therefore, S trains are considered Affected.

- Q (Premium) trains: With BIG, additional Q trains will depart BIG's IMF after being transloaded from international containers into domestic containers, due to the mode shift from truck to S train. Therefore, Q trains are considered Affected.

- B (Bare table) trains: B trains can experience a growth in trips rates if the current fleet size cannot accommodate a train trip rate increase due to international container growth. B trains can also experience a regression if the fleet is managed more efficiently, as the Proposed Project is anticipated to do. Since project elements can affect B train trip rates, they are considered Affected trains.

The Proposed Project 2028 scenario is the opening year of the BIG facility. An increase in opening year cross-dock international volume will occur in addition to the standard CAGRs. This initial volume increase is detailed below:

- An increase of 199,000 S train containers from San Pedro Ports to BIG's IMF. These are containers associated with the mode shift from truck to rail.

- An increase of 132,667 Q train containers resulting from the transloaded S train containers that will head east from BIG's IMF. These are containers associated with the mode shift from truck to rail.

- A decrease of 18,000 Q train containers west of BIG (53-foot intermodal truck volume starting in BIG instead of heading farther west to get transloaded on to Q trains).

Further, the Proposed Project CAGR of 5.75% will be applied to Q and S train container volumes generated by the mode shift from truck to rail during the "ramp up" period between 2028 and 2033. This represents the growth of the market capture of existing international containers that, without BIG, are currently transported by truck from the San Pedro Ports eastward. With BIG, these international containers would convert from truck to a rail as S trains from the San Pedro

Ports to BIG. This S train volume arriving at BIG would be transloaded onto domestic containers, as part of the cross-dock intermodal move, and depart BIG as Q trains eastward. Thus, for cross-dock intermodal Q trains and the mode shifted truck volume S trains from the San Pedro Ports that would be processed at BIG will both experience the "ramp-up" growth rate of 5.75%. The underlying CAGR of all other domestic containers remains at 2.5% and all other international containers remains at 1%. Since Z trains are primarily composed of domestic containers, the number of trips for Z trains is anticipated to change at a CAGR of 2.5% for all Proposed Project scenarios. The current fleet of B trains are anticipated to cover the volume changes in the Proposed Project scenarios; therefore, no change is included in the Proposed Project scenario. The expected CAGRs used for the Proposed Project scenarios were provided by BNSF. Detailed volume and train trips for the Proposed Project can be found in Appendixs A and B.

Unlike the Proposed Project scenario, the No Project scenario will not have an initial injection of train volumes in 2028. However, the No Project scenarios will experience some growth. For the No Project scenarios, international and domestic container volumes are expected to grow at a CAGR of 1% and 2.5%, respectively. Since Z trains are primarily composed of domestic containers, the number of trips for Z trains is anticipated to change at a CAGR of 2.5% for all No Project scenarios. S trains are primarily composed of international containers, and therefore the number of S is anticipated to change at a CAGR of 1% for all No Project scenarios. Q trains are composed of a mix of international and domestic containers, so their train trip rate is more variable. However, Q trains are mostly composed of domestic containers, therefore, the weighted CAGR applied to all Q train trips for No Project scenarios is closer to 2.5% than 1%. The current B trains fleet size is anticipated to cover the volume changes in the No Project scenarios, therefore, no change is included in the No Project scenario. The CAGRs used for the No Project scenarios were provided by BNSF. Detailed volume and train trips for No Project scenarios can be found in Appendix's A and B.

The CAGRs for the No Project and Proposed Project scenarios were provided by BNSF by train type as shown in Appendix B. The No Project and Project train trips and CAGRs are summarized in Table 2.

Table 2 Summary of Average Train Trip CAGRs for Proposed Project Compared to No Project Scenario 2022-23 to 2048		
Train Type	**No Project:**	**Proposed Project (Opening Year 2028):**
Between the years 2022/23 and Opening Year 2028, the No Project CAGRs are applied to the actual 2022/23 base volumes for both the No Project and Proposed Project		
Z trains	53-foot containers: • CAGR of 2.5% for 2028-2048.	53-foot containers: • CAGR of 2.5% for 2028-2048 (**same as No Project**).
S trains	20-foot and 40-foot containers: • CAGR of 1.0% for 2028-2048.	20-foot and 40-foot containers that go from Ports to BIG's IMF for transloading (cross-dock intermodal containers): • CAGR of 5.75% for 2028-2033 and then 1% from 2034 – 2048.
		All other 20-foot and 40-foot containers: • CAGR of 1.0 % for 2034 -2048 (**same as No Project**).
Q trains	Q trains are a mix of 53-foot, 40-foot and 20-foot containers, with CAGRs as follows:	Q trains are a mix of 53-foot, 40-foot and 20-foot containers, with CAGRs as follows:
	20-foot and 40-foot containers: • CAGR of 1% for 2028-2048.	20-foot and 40-foot containers: • CAGR of 1% for 2028 – 2048 (**same as No Project**).
	53-foot containers: • CAGR of 2.5% for 2028-2048.	53-foot cross-dock intermodal containers that go from BIG eastward after transloading (previously known as 40-foot S-trains prior to transloading, which are converted to 53-foot Q-trains after transloading): • CAGR of 5.75% for 2028-2033 and then 2.5% from 2034 – 2048.
		All other 53-foot containers: • CAGR of 2.5% for 2028-2048 (**same as No Project**).
B trains	No loaded containers. CAGR of 0% for 2028-2048.	No loaded containers. CAGR of 0% for 2028-2048 (**same as No Project**).
All other trains Non-Intermodal	Mix of non-container commodities. CAGR of 0% for 2028-2048.	Mix of non-container commodities. CAGR of 0% for 2028-2048 (**same as No Project**).

3.2.3 Fleet Mix

The fleet mix refers to the distribution of locomotive engine tiers within the usable BNSF fleet servicing the Corridor. The locomotive engine tiers range from Tier 0 (older, with higher air pollutant emissions) to Tier 4 (newer, with lower emissions). In order to make the CEM more representative of the activities within the Corridor, the usable fleet mix was limited to the Southern California region instead of using the active national BNSF fleet. The Southern California fleet mix was determined by using the CARB 1998 Memorandum of Mutual Understanding, which presents an annual reported fleet mix. The most current report is from 2023 and was used as a basis of the distribution. The detailed locomotive fleet mix can be found in Appendix C.

Based on historical replacement rates, BNSF anticipates the following changes for Proposed Project and No Project scenarios to the fleet mix in California. 1) by 2028 all Tier 0 through Tier 1 locomotives are removed from service, 2) by 2028 all Tier 2 locomotives are expected to be

converted to Tier 2+, 3) 33 Tier 4 credit locomotives will be purchased annually based on a 5–year historical average, and 4) Tier 1+ locomotives will be retired at a rate of 100 per every 85 Tier 4 credit locomotives purchased.

For all Proposed Project scenarios, any increase in train trips over No Project for S trains between the San Pedro Ports and BIG (Segment 1, 2, and 3) is assumed to be operated by a Dedicated Fleet. The Dedicated Fleet is composed of newly purchased Tier 4 locomotives and is separate from the usable fleet mix that services all other rail traffic. The opening year (2028) Dedicated fleet size is anticipated to be 30 Tier 4 locomotives and 38 Tier 4 locomotives by 2048. The Dedicated Fleet size is based on 6 locomotives per train for each additional S train trip that may occur in the Proposed Project scenarios, plus a safety factor of one additional set of 6 locomotives. The number of locomotives in the Dedicated Fleet could fluctuate depending on several factors such as train profile or HPT, however, 38 is a conservative number since this is greater than the estimated 32 trains needed to move the increased Project volume in 2048. The remaining train types in the Proposed Project would be operated by a fleet mix identical to the No Project.

3.2.4 Fuel Blend

The Proposed Project scenarios would increase the use of renewable diesel in the locomotives traveling in the eastbound direction (fueled in California). The Proposed Project scenarios would not change the use of renewable diesel in westbound travel (trains fueled outside of California), because the availability of additional renewable fuel is not expected to change in stations outside California. Further, since the additional renewable will only be implemented if BIG is approved and constructed, the eastbound and westbound traffic will continue to be one percent and zero percent renewable, respectively, for No Project scenarios. The Proposed Project scenarios will increase the renewable fuel usage in eastbound traffic from one percent to 10 percent. Renewable fuel usage in westbound traffic is not expected to increase.

3.2.5 Fuel Emissions Factors

The criteria pollutant fuel emission factors are based on U.S. EPA certified diesel emission factors (United States Environmental Protection Agency: Emission Factors for Locomotives, 2009) and are adjusted to account for the use of renewable diesel based on emission factors from the Renewable Diesel Fuel Effects on Exhaust Emissions from a Tier 3 GE ES44C4 Locomotive (CARB, 2021).

The greenhouse gas emission factors are based on The Climate Registry (2021) and were adjusted to reflect a 62 percent reduction based on the carbon intensity of renewable diesel

compared to conventional diesel (California Air Resources Board LCSF Pathways, accessed 2024). That is to say, the renewable diesel produces 62 percent fewer GHG emissions when compared to conventional diesel in a life-cycle analysis. The composite emission factors can be found in Appendix C.

3.2.6 Fuel Efficiency Model (FEM)

Fuel efficiency is measured in gross ton miles per gallon. The fuel efficiency was calculated for each train type and each segment using the FEM. The FEM is a statistical regression model which establishes a mathematical equation to predict fuel efficiency based on actual fuel use data, provided by BNSF, for each train type and corresponding segment that operated in 2023. The FEM is a function of train type, slope grade, distance, weight, and HPT. The train type, distance, weight, and HPT are based on the same train profiles used in the CEM. The slope grade is based on the Train Track Charts provided by BNSF. A demonstration of the FEM is presented in Equation 2 and Appendix D.

4.0 CRITERIA POLLUTANT EMISSIONS SUMMARY

Below is a summary of criteria pollutant emissions for the No Project and Proposed Project scenarios for all analysis years.

4.1 No Project Scenarios

The following outlines the conditions applicable to all No Project scenarios. Conditions specific to individual analysis years are detailed in their respective sections.

- International containers have a CAGR of 1%.
- Domestic containers have a CAGR of 2.5%.
- The current B train fleet size is anticipated to cover the CAGR changes in the scenario.
- The fuel for all eastbound traffic is modeled with 1% renewable diesel.
- The fuel for all westbound traffic is modeled at 0% renewable diesel.
- Fleet mix assumes all locomotives below Tier 1 are removed from service, all Tier 2 locomotives are converted to Tier 2+, and standard replacement rates for Tier 1+ to Tier 4 locomotives.
- No Dedicated Fleet.

4.1.1 2028 Emissions Summary

The No Project 2028 scenario for "Z", "S", and "Q" trains assume growth based on CAGRs. All other train types were not modeled for any growth. Detailed volume and train trips for No Project scenarios can be found in Appendix A. Tables 3 and 4 summarize the No Project criteria pollutant emissions. See Appendix E for detailed calculations.

Table 3
No Project 2028: Total Peak Daily Corridor Criteria Pollutant Emissions
(lb/day)

Region	PM10	PM2.5	VOC	NOx	CO	SOx
SCAQMD	230.1	223.2	431.9	11,008.3	2,776.3	9.8
MDAQMD	1,020.5	989.8	1,915.2	48,805.7	12,309.8	43.5
West of BIG	340.6	330.4	639.3	16,292.2	4,109.1	14.5
East of BIG	909.9	882.6	1,707.8	43,521.7	10,976.9	38.7
Total	1,250.5	1,213.0	2,347.1	59,813.9	15,086.0	53.3

Table 4
No Project 2028: Annual Corridor Criteria Pollutant Emissions
(tons/yr)

Region	PM10	PM2.5	VOC	NOx	CO	SOx
SCAQMD	37.2	36.0	69.8	1,777.9	448.4	1.6
MDAQMD	164.8	159.9	309.3	7,882.3	1,988.1	7.0
West of BIG	55.0	53.4	103.2	2,631.3	663.6	2.3
East of BIG	147.0	142.5	275.8	7,028.9	1,772.8	6.3
Total	202.0	195.9	379.1	9,660.2	2,436.5	8.6

Notes:
PM10 = Particulate matter less than 10 microns in diameter
PM2.5 = Particulate matter less than 2.5 microns in diameter
VOC = Volatile organic compound
NOx = Nitrogen oxides
CO = Carbon monoxide
SOx = Sulfur dioxide
CO2e = Carbon dioxide equivalent
Peak daily emissions based on 13% safety factor on average daily emissions
Source: EnSafe, Inc.

4.1.2 2033 Emissions Summary

The No Project 2033 scenario for "Z", "S", and "Q" trains assume growth based on CAGRs. All other train types were not modeled for any growth. Detailed volume and train trips for No Project scenarios can be found in Appendix A. Tables 5 and 6 summarize the No Project criteria pollutant emissions. See Appendix E for detailed calculations.

Table 5
No Project 2033: Total Peak Daily Corridor Criteria Pollutant Emissions
(lb/day)

Region	PM10	PM2.5	VOC	NOx	CO	SOx
SCAQMD	229.3	222.4	434.9	11,301.9	2,986.7	10.5
MDAQMD	1,015.0	984.5	1,924.4	49,997.4	13,213.5	46.6
West of BIG	339.0	328.8	642.8	16,700.5	4,413.6	15.6
East of BIG	905.3	878.1	1,716.5	44,598.8	11,786.6	41.6
Total	1,244.3	1,206.9	2,359.3	61,299.4	16,200.2	57.2

Table 6
No Project 2033: Annual Corridor Criteria Pollutant Emissions
(tons/yr)

Region	PM10	PM2.5	VOC	NOx	CO	SOx
SCAQMD	37.0	35.9	70.2	1,825.3	482.4	1.7
MDAQMD	163.9	159.0	310.8	8,074.8	2,134.0	7.5
West of BIG	54.7	53.1	103.8	2,697.2	712.8	2.5
East of BIG	146.2	141.8	277.2	7,202.9	1,903.6	6.7
Total	201.0	194.9	381.0	9,900.1	2,616.4	9.2

Notes:
PM10 = Particulate matter less than 10 microns in diameter
PM2.5 = Particulate matter less than 2.5 microns in diameter
VOC = Volatile organic compound
NOx = Nitrogen oxides
CO = Carbon monoxide
SOx = Sulfur dioxide
CO2e = Carbon dioxide equivalent
Peak daily emissions based on 13% safety factor on average daily emissions
Source: EnSafe, Inc.

4.1.3 2048 Emissions Summary

The No Project 2048 scenario for "Z", "S", and "Q" trains assume growth based on CAGRs. All other train types were not modeled for any growth. Detailed volume and train trips for No Project scenarios can be found in Appendix A. Tables 7 and 8 summarize the No Project criteria pollutant emissions. See Appendix E for detailed calculations.

Table 7
No Project 2048: Total Peak Daily Corridor Criteria Pollutant Emissions
(lb/day)

Region	PM10	PM2.5	VOC	NOx	CO	SOx
SCAQMD	219.7	213.1	435.2	12,215.6	3,787.1	13.4
MDAQMD	968.9	939.9	1,919.2	53,860.5	16,699.5	58.9
West of BIG	324.1	314.3	641.9	18,016.3	5,585.8	19.7
East of BIG	864.5	838.6	1,712.5	48,059.8	14,900.8	52.6
Total	1,188.6	1,152.9	2,354.4	66,076.1	20,486.6	72.3

Table 8
No Project 2048: Annual Corridor Criteria Pollutant Emissions
(tons/yr)

Region	PM10	PM2.5	VOC	NOx	CO	SOx
SCAQMD	35.5	34.4	70.3	1,972.9	611.6	2.2
MDAQMD	156.5	151.8	310.0	8,698.7	2,697.0	9.5
West of BIG	52.3	50.8	103.7	2,909.7	902.1	3.2
East of BIG	139.6	135.4	276.6	7,761.9	2,406.5	8.5
Total	192.0	186.2	380.2	10,671.6	3,308.7	11.7

Notes:
PM10 = Particulate matter less than 10 microns in diameter
PM2.5 = Particulate matter less than 2.5 microns in diameter
VOC = Volatile organic compound
NOx = Nitrogen oxides
CO = Carbon monoxide
SOx = Sulfur dioxide
CO2e = Carbon dioxide equivalent
Peak daily emissions based on 13% safety factor on average daily emissions
Source: EnSafe, Inc.

4.2 Proposed Project Scenarios

The following outlines the conditions applicable to all Proposed Project scenarios. Conditions specific to individual analysis years are detailed in their respective sections.

- International containers have a CAGR of 1% for non-"ramp up" period.
- Domestic containers have a CAGR of 2.5% for non-"ramp up" period.

- The current B train fleet size is anticipated to cover the CAGR changes in the scenario.
- The fuel for all eastbound traffic is modeled with 10% renewable diesel.
- The fuel for all westbound traffic is modeled at 0% renewable diesel.
- Fleet mix assumes all locomotives below Tier 1 are removed from service, all Tier 2 locomotives are converted to Tier 2+, and standard replacement rates for Tier 1+ to Tier 4 locomotives.
- Dedicated Fleet for the volume of international containers related to the Proposed Project based on the mode shift from truck to S trains between the San Pedro Ports and BIG IMF.

4.2.1 2028 Emissions Summary

The Proposed Project 2028 scenario is the opening year of the BIG facility. An increase in opening year cross-dock international volume will occur in addition to the standard CAGRs. This initial volume increase is detailed below:

- An increase of 199,000 S train containers from San Pedro Ports to BIG's IMF. These are containers associated with the mode shift from truck to rail.
- An increase of 132,667 Q train containers resulting from the transloaded S train containers that will head east from BIG's IMF. These are containers associated with the mode shift from truck to rail.
- A decrease of 18,000 Q train containers west of BIG (localized domestic truck volume transloaded at BIG instead of heading farther west to other stations to get transloaded).

The Proposed Project 2028 scenario for other containers volumes loaded onto "Z", "S", and "Q" trains assume growth based on standard CAGRs. All other train types were not modeled for any growth. Detailed volume and train trips for Proposed Project scenarios can be found in Appendix A. Tables 9 and 10 summarize the Proposed Project criteria pollutant emissions. See Appendix E for detailed calculations.

Table 9 Project 2028: Total Peak Daily Corridor Criteria Pollutant Emissions (lb/day)						
Region	**PM10**	**PM2.5**	**VOC**	**NOx**	**CO**	**SOx**
SCAQMD	227.7	220.9	435.8	11,119.6	3,081.5	11.0
MDAQMD	1,060.4	1,028.6	2,000.7	51,204.3	12,981.6	46.2
West of BIG	337.6	327.4	644.1	16,418.9	4,506.3	16.1
East of BIG	950.5	922.0	1,792.4	45,905.0	11,556.8	41.1
Total	1,288.1	1,249.4	2,436.5	62,323.9	16,063.1	57.2

Table 10 Project 2028: Annual Corridor Criteria Pollutant Emissions (tons/yr)						
Region	**PM10**	**PM2.5**	**VOC**	**NOx**	**CO**	**SOx**
SCAQMD	36.8	35.7	70.4	1,795.9	497.7	1.8
MDAQMD	171.3	166.1	323.1	8,269.7	2,096.6	7.5
West of BIG	54.5	52.9	104.0	2,651.7	727.8	2.6
East of BIG	153.5	148.9	289.5	7,413.9	1,866.5	6.6
Total	208.0	201.8	393.5	10,065.6	2,594.3	9.2

Notes:
PM10 = particulate matter less than 10 microns in diameter
PM2.5 = particulate matter less than 2.5 microns in diameter
VOC = volatile organic compound
NOx = Nitrogen oxides
CO = Carbon monoxide
SOx = Sulfur dioxide
Peak daily emissions based on 13% safety factor on average daily emissions.
Source: EnSafe, Inc.

4.2.2 2033 Emissions Summary

The Proposed Project 2033 scenario models the "ramp up" period of the BIG facility. The "ramp up" period is the 5-year period of a CAGR of 5.75% after the opening year of 2028 and includes 2029 to 2033. This CAGR adjustments for the "ramp up" period is detailed below:

- S Trains – International containers that go from San Pedro Ports to BIG's IMF for transloading (cross-dock intermodal containers).

- Q Trains – Domestic containers that go from BIG eastward after transloading (cross-dock intermodal containers, previously known as S-trains prior to transloading, which are converted to Q-trains after transloading).

The Proposed Project 2033 scenario for other containers volumes loaded onto "Z", "S", and "Q" trains assume growth based on standard CAGRs. All other train types were not modeled for any

growth. Detailed volume and train trips for Proposed Project scenarios can be found in Appendix A. Tables 11 and 12 summarize the Proposed Project criteria pollutant emissions. See Appendix E for detailed calculations.

Table 11
Project 2033: Total Peak Daily Corridor Criteria Pollutant Emissions
(lb/day)

Region	PM10	PM2.5	VOC	NOx	CO	SOx
SCAQMD	227.5	220.7	441.6	11,462.0	3,392.8	12.1
MDAQMD	1,067.6	1,035.6	2,035.5	53,105.9	14,127.1	50.3
West of BIG	336.9	326.8	651.6	16,898.8	4,945.1	17.6
East of BIG	958.3	929.5	1,825.5	47,669.0	12,574.7	44.8
Total	1,295.1	1,256.3	2,477.1	64,567.9	17,519.9	62.4

Table 12
Project 2033: Annual Corridor Criteria Pollutant Emissions
(tons/yr)

Region	PM10	PM2.5	VOC	NOx	CO	SOx
SCAQMD	36.7	35.6	71.3	1,851.2	547.9	2.0
MDAQMD	172.4	167.2	328.7	8,576.8	2,281.6	8.1
West of BIG	54.4	52.8	105.2	2,729.2	798.7	2.8
East of BIG	154.8	150.1	294.8	7,698.8	2,030.9	7.2
Total	209.2	202.9	400.1	10,428.0	2,829.5	10.1

Notes:
PM10 = particulate matter less than 10 microns in diameter
PM2.5 = particulate matter less than 2.5 microns in diameter
VOC = volatile organic compound
NOx = Nitrogen oxides
CO = Carbon monoxide
SOx = Sulfur dioxide
Peak daily emissions based on 13% safety factor on average daily emissions.
Source: EnSafe, Inc.

4.2.3 2048 Emissions Summary

The Proposed Project 2048 scenario for "Z", "S", and "Q" trains assume growth based on standard CAGRs. All other train types were not modeled for any growth. Detailed volume and train trips for Proposed Project scenarios can be found in Appendix A. Tables 13 and 14 summarize the Proposed Project criteria pollutant emissions. See Appendix E for detailed calculations.

Table 13 Project 2048: Total Peak Daily Corridor Criteria Pollutant Emissions (lb/day)						
Region	**PM10**	**PM2.5**	**VOC**	**NOx**	**CO**	**SOx**
SCAQMD	219.7	213.1	446.1	12,457.8	4,267.0	15.2
MDAQMD	1,011.5	981.2	2,015.2	56,780.0	17,703.5	63.0
West of BIG	323.6	313.8	654.7	18,274.1	6,199.2	22.1
East of BIG	907.7	880.5	1,806.6	50,963.8	15,771.3	56.1
Total	1,231.3	1,194.3	2,461.3	69,237.8	21,970.5	78.2

Table 14 Project 2048: Annual Corridor Criteria Pollutant Emissions (tons/yr)						
Region	**PM10**	**PM2.5**	**VOC**	**NOx**	**CO**	**SOx**
SCAQMD	35.5	34.4	72.1	2,012.0	689.1	2.5
MDAQMD	163.4	158.5	325.5	9,170.2	2,859.2	10.2
West of BIG	52.3	50.7	105.7	2,951.3	1,001.2	3.6
East of BIG	146.6	142.2	291.8	8,230.9	2,547.1	9.1
Total	198.9	192.9	397.5	11,182.2	3,548.3	12.6

Notes:
PM10 = particulate matter less than 10 microns in diameter
PM2.5 = particulate matter less than 2.5 microns in diameter
VOC = volatile organic compound
NOx = Nitrogen oxides
CO = Carbon monoxide
SOx = Sulfur dioxide
Peak daily emissions based on 13% safety factor on average daily emissions.
Source: EnSafe, Inc.

4.3 Proposed Project Incremental Emissions

Below is a summary of the comparison of criteria pollutants emissions for the No Project and Proposed Project scenarios for all analysis years.

4.3.1 2028 Emissions Comparison

The comparison of peak daily criteria pollutant emissions is presented in Table 15.

The results from the peak daily corridor criteria pollutants emissions for the SCAQMD region under the Proposed Project scenario indicate an increase of 3.9, 111.4, 305.2, and 1.2 pounds per day for VOC, NOx, CO, and SOx, respectively, compared to the No Project scenario, and a decrease of 2.4 and 2.3 pounds per day for PM10 and PM2.5 respectively.

Table 15 Project Incremental 2028: Total Peak Daily Corridor Criteria Pollutant Emissions (lb/day)						
Region	**PM10**	**PM2.5**	**VOC**	**NOx**	**CO**	**SOx**
SCAQMD	-2.4	-2.3	3.9	111.4	305.2	1.2
MDAQMD	40.0	38.8	85.5	2,398.6	671.8	2.7
West of BIG	-3.0	-2.9	4.8	126.7	397.2	1.5
East of BIG	40.6	39.4	84.5	2,383.3	579.9	2.4
Total	37.6	36.4	89.4	2,510.0	977.1	3.9

Notes:
PM10 = Particulate matter less than 10 microns in diameter
PM2.5 = Particulate matter less than 2.5 microns in diameter
VOC = Volatile organic compound
NOx = Nitrogen oxides
CO = Carbon monoxide
SOx = Sulfur dioxide
CO2e = Carbon dioxide equivalent
Peak daily emissions based on 13% safety factor on average daily emissions
Source: EnSafe, Inc.

The results from the peak daily corridor criteria pollutants emissions for the MDAQMD region under the Proposed Project scenario indicate an increase of 40.0, 38.8, 85.5, 2,398.6, 671.8, and 2.7 pounds per day for PM10, PM2.5, VOC, NOx, CO, and SOx, respectively, compared to the No Project scenario.

The results from the peak daily corridor criteria pollutants emissions for the West of BIG region under the Proposed Project scenario indicate an increase of 4.8, 126.7, 397.2, and 1.5 pounds per day for VOC, NOx, CO, and SOx, respectively, compared to the No Project scenario, and a decrease of 3.0, and 2.9 pounds per day for PM10 and PM2.5 respectively.

The results from the peak daily corridor criteria pollutants emissions for the East of BIG region under the Proposed Project scenario indicate an increase of 40.6, 39.4, 84.5, 2,383.3, 579.9, and 2.4 pounds per day for PM10, PM2.5, VOC, NOx, CO, and SOx, respectively, compared to the No Project scenario.

The results from the peak daily corridor criteria pollutants emissions for the total (SCAQMD and MDAQMD) region under the Proposed Project scenario indicate an increase of 37.6, 36.4, 89.4, 2,510.0, 977.1 and 3.9 pounds per day for PM10, PM2.5, VOC, NOx, CO, and SOx, respectively, compared to the No Project scenario.

The comparison of annual average criteria pollutant emissions is presented in Table 16.

Table 16 Project Incremental 2028: Annual Corridor Criteria Pollutant Emissions (tons/yr)						
Region	**PM10**	**PM2.5**	**VOC**	**NOx**	**CO**	**SOx**
SCAQMD	-0.4	-0.4	0.6	18.0	49.3	0.2
MDAQMD	6.5	6.3	13.8	387.4	108.5	0.4
West of BIG	-0.5	-0.5	0.8	20.5	64.1	0.2
East of BIG	6.6	6.4	13.7	384.9	93.7	0.4
Total	6.1	5.9	14.4	405.4	157.8	0.6

Notes:
PM10 = Particulate matter less than 10 microns in diameter
PM2.5 = Particulate matter less than 2.5 microns in diameter
VOC = Volatile organic compound
NOx = Nitrogen oxides
CO = Carbon monoxide
SOx = Sulfur dioxide
CO2e = Carbon dioxide equivalent
Source: EnSafe, Inc.

The results from the annual corridor criteria pollutants emissions for the SCAQMD region under the Proposed Project scenario indicate an increase of 0.6, 18.0, 49.3, and 0.2 tons per year for VOC, NOx, CO, and SOx, respectively, compared to the No Project scenario, and a decrease of 0.4 tons per year for PM10 and PM2.5.

The results from the annual corridor criteria pollutants emissions for the MDAQMD region under the Proposed Project scenario indicate an increase of 6.5, 6.3, 13.8, 387.4, 108.5, and 0.4 tons per year for PM10, PM2.5, VOC, NOx, CO, and SOx, respectively, compared to the No Project scenario.

The results from the annual corridor criteria pollutants emissions for the West of BIG region under the Proposed Project scenario indicate an increase of 0.8, 20.5, 64.1, and 0.2 tons per year for VOC, NOx, CO, and SOx, respectively, compared to the No Project scenario, and a decrease of 0.5 tons per year for PM10 and PM2.5.

The results from the annual corridor criteria pollutants emissions for the East of BIG region under the Proposed Project scenario indicate an increase of 6.6, 6.4., 13.7, 384.9, 93.7, and 0.4 tons per year for PM10, PM2.5, VOC, NOx, CO, and SOx, respectively, compared to the No Project scenario.

The results from the annual corridor criteria pollutants emissions for the total (SCAQMD and MDAQMD) region under the Proposed Project scenario indicate an increase of 6.1, 5.9, 14.4,

405.4, 157.8, and 0.6 tons per year for PM10, PM2.5, VOC, NOx, CO, and SOx, respectively, compared to the No Project scenario.

4.3.2 2033 Emissions Comparison

The comparison of peak daily criteria pollutant emissions is presented in Table 17.

Table 17
Project Incremental 2033: Peak Daily Corridor Criteria Pollutant Emissions (lb/day)

Region	PM10	PM2.5	VOC	NOx	CO	SOx
SCAQMD	-1.8	-1.7	6.7	160.1	406.1	1.6
MDAQMD	52.6	51.1	111.1	3,108.4	913.6	3.6
West of BIG	-2.1	-2.0	8.8	198.3	531.6	2.0
East of BIG	53.0	51.4	108.9	3,070.2	788.1	3.1
Total	50.9	49.3	117.8	3,268.5	1,319.7	5.2

Notes:
PM10 = Particulate matter less than 10 microns in diameter
PM2.5 = Particulate matter less than 2.5 microns in diameter
VOC = Volatile organic compound
NOx = Nitrogen oxides
CO = Carbon monoxide
SOx = Sulfur dioxide
CO2e = Carbon dioxide equivalent
Peak daily emissions based on 13% safety factor on average daily emissions
Source: EnSafe, Inc.

The results from the peak daily corridor criteria pollutants emissions for the SCAQMD region under the Proposed Project scenario indicate an increase of 6.7, 160.1, 406.1, and 1.6 pounds per day for VOC, NOx, CO, and SOx, respectively, compared to the No Project scenario, and a decrease of 1.8 and 1.7 pounds per day for PM10 and PM2.5 respectively.

The results from the peak daily corridor criteria pollutants emissions for the MDAQMD region under the Proposed Project scenario indicate an increase of 52.6, 51.1, 111.1, 3,108.4, 913.6, and 3.6 pounds per day for PM10, PM2.5, VOC, NOx, CO, and SOx, respectively, compared to the No Project scenario.

The results from the peak daily corridor criteria pollutants emissions for the West of BIG region under the Proposed Project scenario indicate an increase of 8.8, 198.3, 531.6, and 2.0 pounds per day for VOC, NOx, CO, and SOx, respectively, compared to the No Project scenario, and a decrease of 2.1 and 2.0 pounds per day for PM10 and PM2.5 respectively.

The results from the peak daily corridor criteria pollutants emissions for the East of BIG region under the Proposed Project scenario indicate an increase of 53.0, 51.4, 108.9, 3,070.2, 788.1, and 3.1 pounds per day for PM10, PM2.5, VOC, NOx, CO, and SOx, respectively, compared to the No Project scenario.

The results from the peak daily corridor criteria pollutants emissions for the total (SCAQMD and MDAQMD) region under the Proposed Project scenario indicate an increase of 50.9, 49.3, 117.8, 3,268.5, 1,319.7, and 5.2 pounds per day for PM10, PM2.5, VOC, NOx, CO, and SOx, respectively, compared to the No Project scenario.

The comparison of annual average criteria pollutant emissions is presented in Table 18.

Table 18
Project Incremental 2033: Annual Corridor Criteria Pollutant Emissions
(tons/yr)

Region	PM10	PM2.5	VOC	NOx	CO	SOx
SCAQMD	-0.3	-0.3	1.1	25.9	65.6	0.3
MDAQMD	8.5	8.2	17.9	502.0	147.5	0.6
West of BIG	-0.3	-0.3	1.4	32.0	85.9	0.3
East of BIG	8.6	8.3	17.6	495.9	127.3	0.5
Total	8.2	8.0	19.0	527.9	213.1	0.8

Notes:
PM10 = Particulate matter less than 10 microns in diameter
PM2.5 = Particulate matter less than 2.5 microns in diameter
VOC = Volatile organic compound
NOx = Nitrogen oxides
CO = Carbon monoxide
SOx = Sulfur dioxide
CO2e = Carbon dioxide equivalent
Source: EnSafe, Inc.

The results from the annual corridor criteria pollutants emissions for the SCAQMD region under the Proposed Project scenario indicate an increase of 1.1, 25.9, 65.6, and 0.3 tons per year for VOC, NOx, CO, and SOx, respectively, compared to the No Project scenario, and a decrease of 0.3 tons per year for PM10 and PM2.5.

The results from the annual corridor criteria pollutants emissions for the MDAQMD region under the Proposed Project scenario indicate an increase of 8.5, 8.2, 17.9, 502.0, 147.5, and 0.6 tons per year for PM10, PM2.5, VOC, NOx, CO, and SOx, respectively, compared to the No Project scenario.

The results from the annual corridor criteria pollutants emissions for the West of BIG region under the Proposed Project scenario indicate an increase of 1.4, 32.0, 85.9, and 0.3 tons per year for VOC, NOx, CO, and SOx, respectively, compared to the No Project scenario, and a decrease of 0.3 tons per year for PM10 and PM2.5.

The results from the annual corridor criteria pollutants emissions for the East of BIG region under the Proposed Project scenario indicate an increase of 8.6, 8.3, 17.6, 495.9, 127.3, and 0.5 tons per year for PM10, PM2.5, VOC, NOx, CO, and SOx, respectively, compared to the No Project scenario.

The results from the annual corridor criteria pollutants emissions for the total (SCAQMD and MDAQMD) region under the Proposed Project scenario indicate an increase of 8.2, 8.0, 19.0, 527.9, 213.1, and 0.8 tons per year for PM10, PM2.5, VOC, NOx, CO, and SOx, respectively, compared to the No Project scenario.

4.3.3 2048 Emissions Comparison

The comparison of peak daily criteria pollutant emissions is presented in Table 19.

Table 19
Project Incremental 2048: Peak Daily Corridor Criteria Pollutant Emissions
(lb/day)

Region	PM10	PM2.5	VOC	NOx	CO	SOx
SCAQMD	0.1	0.1	11.0	242.2	479.9	1.9
MDAQMD	42.6	41.3	96.0	2,919.5	1,004.0	4.0
West of BIG	-0.5	-0.5	12.8	257.7	613.4	2.4
East of BIG	43.2	41.9	94.2	2,903.9	870.5	3.5
Total	42.7	41.4	106.9	3,161.7	1,483.9	5.9

Notes:
PM10 = Particulate matter less than 10 microns in diameter
PM2.5 = Particulate matter less than 2.5 microns in diameter
VOC = Volatile organic compound
NOx = Nitrogen oxides
CO = Carbon monoxide
SOx = Sulfur dioxide
CO2e = Carbon dioxide equivalent
Peak daily emissions based on 13% safety factor on average daily emissions
Source: EnSafe, Inc.

The results from the peak daily corridor criteria pollutants emissions for the SCAQMD region under the Proposed Project scenario indicate an increase of 0.1, 0.1, 11.0, 242.2, 479.9, and 1.9 pounds per day for PM10, PM2.5, VOC, NOx, CO, and SOx, respectively, compared to the No Project scenario.

The results from the peak daily corridor criteria pollutants emissions for the MDAQMD region under the Proposed Project scenario indicate an increase of 42.6, 41.3, 96.0, 2,919.5, 1,004.0, and 4.0 pounds per day for PM10, PM2.5, VOC, NOx, CO, and SOx, respectively, compared to the No Project scenario.

The results from the peak daily corridor criteria pollutants emissions for the West of BIG region under the Proposed Project scenario indicate an increase of 12.8, 257.7, 613.4, and 2.4 pounds per day for VOC, NOx, CO, and SOx, respectively, compared to the No Project scenario, and a decrease of 0.5 pounds per day for PM10 and PM2.5.

The results from the peak daily corridor criteria pollutants emissions for the East of BIG region under the Proposed Project scenario indicate an increase of 43.2, 41.9, 94.2, 2,903.9, 870.5, and 3.5 pounds per day for PM10, PM2.5, VOC, NOx, CO, and SOx, respectively, compared to the No Project scenario.

The results from the peak daily corridor criteria pollutants emissions for the total (SCAQMD and MDAQMD) region under the Proposed Project scenario indicate an increase of 42.7, 41.4, 106.9, 3,161.7, 1,483.9, and 5.9 pounds per day for PM10, PM2.5, VOC, NOx, CO, and SOx, respectively, compared to the No Project scenario.

The comparison of annual average criteria pollutant emissions is presented in Table 20.

Table 20
Project Incremental 2048: Annual Corridor Criteria Pollutant Emissions
(tons/yr)

Region	PM10	PM2.5	VOC	NOx	CO	SOx
SCAQMD	0.0	0.0	1.8	39.1	77.5	0.3
MDAQMD	6.9	6.7	15.5	471.5	162.1	0.7
West of BIG	-0.1	-0.1	2.1	41.6	99.1	0.4
East of BIG	7.0	6.8	15.2	469.0	140.6	0.6
Total	6.9	6.7	17.3	510.6	239.7	1.0

Notes:
PM10 = Particulate matter less than 10 microns in diameter
PM2.5 = Particulate matter less than 2.5 microns in diameter
VOC = Volatile organic compound
NOx = Nitrogen oxides
CO = Carbon monoxide
SOx = Sulfur dioxide
CO2e = Carbon dioxide equivalent
Peak daily emissions based on 13% safety factor on average daily emissions
Source: EnSafe, Inc.

The results from the annual corridor criteria pollutants emissions for the SCAQMD region under the Proposed Project scenario indicate an increase of 0.01, 0.01, 1.8, 39.1, 77.5, and 0.3 tons per year for PM10, PM2.5, VOC, NOx, CO, and SOx, respectively, compared to the No Project scenario.

The results from the annual corridor criteria pollutants emissions for the MDAQMD region under the Proposed Project scenario indicate an increase of 6.9, 6.7, 15.5, 471.5, 162.1, and 0.7 tons per year for PM10, PM2.5, VOC, NOx, CO, and SOx, respectively, compared to the No Project scenario.

The results from the annual corridor criteria pollutants emissions for the West of BIG region under the Proposed Project scenario indicate an increase of 2.1, 41.6, 99.1, and 0.4 tons per year for VOC, NOx, CO, and SOx, respectively, compared to the No Project scenario, and a decrease of 0.1 tons per year for PM10 and PM2.5.

The results from the annual corridor criteria pollutants emissions for the East of BIG region under the Proposed Project scenario indicate an increase of 7.0, 6.8, 15.2, 469.0, 140.6, and 0.6 tons per year for PM10, PM2.5, VOC, NOx, CO, and SOx, respectively, compared to the No Project scenario.

The results from the annual corridor criteria pollutants emissions for the total (SCAQMD and MDAQMD) region under the Proposed Project scenario indicate an increase of 6.9, 6.7, 17.3, 510.6, 239.7, and 1.0 tons per year for PM10, PM2.5, VOC, NOx, CO, and SOx, respectively, compared to the No Project scenario.

5.0 GHG EMISSIONS SUMMARY

Below is a summary of GHG emissions for the No Project and Proposed Project scenarios for all analysis years.

5.1 No Project Scenarios

The following outlines the conditions applicable to all No Project scenarios. Conditions specific to individual analysis years are detailed in their respective sections.

- International containers have a CAGR of 1%.
- Domestic containers have a CAGR of 2.5%.
- The current B train fleet size is anticipated to cover the CAGR changes in the scenario.
- The fuel for all eastbound traffic is modeled with 1% renewable diesel.
- The fuel for all westbound traffic is modeled at 0% renewable diesel.
- Fleet mix assumes all locomotives below Tier 1 are removed from service, all Tier 2 locomotives are converted to Tier 2+, and standard replacement rates for Tier 1+ to Tier 4 locomotives.
- No Dedicated Fleet.

5.1.1 2028 Emissions Summary

The No Project 2028 scenario for "Z", "S", and "Q" trains assume growth based on CAGRs. All other train types were not modeled for any growth. Detailed volume and train trips for No Project scenarios can be found in Appendix A. Table 21 summarizes the No Project GHG emissions. See Appendix E for detailed calculations.

Table 21 No Project 2028: Annual Corridor GHG Emissions (metric tons/yr)				
Region	**CO_2**	**N_2O**	**CH_4**	**$CO2e^2$**
SCAQMD	155,410.4	4.0	12.2	156,894.2
MDAQMD	689,907.6	17.6	54.1	696,494.5
West of BIG	230,210.5	5.9	18.0	232,408.4
East of BIG	615,107.5	15.7	48.2	620,980.2
Total	845,318.0	21.5	66.2	853,388.7

Notes:
GHG = Greenhouse gas
CO_2 = Carbon dioxide
N_2O = Nitrous Oxide
CH_4 = Methane
CO2e = Carbon dioxide equivalent
Global warming potentials for CO2e based on Table A-1 to Subpart A of Part 98, Title 40.
Source: EnSafe, Inc.

5.1.2 2033 Emissions Summary

The No Project 2033 scenario for "Z", "S", and "Q" trains assume growth based on CAGRs. All other train types were not modeled for any growth. Detailed volume and train trips for No Project scenarios can be found in Appendix A. Table 22 summarizes the No Project GHG emissions. See Appendix E for detailed calculations.

Table 22 No Project 2033: Annual Corridor GHG Emissions (metric tons/yr)				
Region	**CO_2**	**N_2O**	**CH_4**	**$CO2e^2$**
SCAQMD	167,186.3	4.3	13.1	168,782.5
MDAQMD	740,544.5	18.9	58.0	747,614.8
West of BIG	247,263.4	6.3	19.4	249,624.2
East of BIG	660,467.4	16.8	51.8	666,773.2
Total	907,730.8	23.1	71.1	916,397.3

Notes:
GHG = Greenhouse gas
CO_2 = Carbon dioxide
N_2O = Nitrous Oxide
CH_4 = Methane
CO2e = Carbon dioxide equivalent
Global warming potentials for CO2e based on Table A-1 to Subpart A of Part 98, Title 40.
Source: EnSafe, Inc.

5.1.3 2048 Emissions Summary

The No Project 2048 scenario for "Z", "S", and "Q" trains assume growth based on CAGRs. All other train types were not modeled for any growth. Detailed volume and train trips for No

Project scenarios can be found in Appendix A. Table 23 summarizes the No Project GHG emissions. See Appendix E for detailed calculations.

Table 23
No Project 2048: Annual Corridor GHG Emissions
(metric tons/yr)

Region	CO_2	N_2O	CH_4	$CO2e^2$
SCAQMD	211,988.8	5.4	16.6	214,012.8
MDAQMD	935,859.3	23.8	73.3	944,794.4
West of BIG	312,925.1	8.0	24.5	315,912.8
East of BIG	834,923.0	21.3	65.4	842,894.4
Total	1,147,848.1	29.2	89.9	1,158,807.2

Notes:
GHG = Greenhouse gas
CO_2 = Carbon dioxide
N_2O = Nitrous Oxide
CH_4 = Methane
CO2e = Carbon dioxide equivalent
Global warming potentials for CO2e based on Table A-1 to Subpart A of Part 98, Title 40.
Source: EnSafe, Inc.

5.2 Proposed Project Scenarios

The following outlines the conditions applicable to all Proposed Project scenarios. Conditions specific to individual analysis years are detailed in their respective sections.

- International containers have a CAGR of 1% for non-"ramp up" period.
- Domestic containers have a CAGR of 2.5% for non-"ramp up" period.
- The current B train fleet size is anticipated to cover the CAGR changes in the scenario.
- The fuel for all eastbound traffic is modeled with 10% renewable diesel.
- The fuel for all westbound traffic is modeled at 0% renewable diesel.
- Fleet mix assumes all locomotives below Tier 1 are removed from service, all Tier 2 locomotives are converted to Tier 2+, and standard replacement rates for Tier 1+ to Tier 4 locomotives.

Dedicated Fleet for the volume of international containers related to the Proposed Project based on the mode shift from truck to S trains between the San Pedro Ports and BIG IMF.

5.2.1 2028 Emissions Summary

The Proposed Project 2028 scenario is the opening year of the BIG facility. An increase in opening year cross-dock international volume will occur in addition to the standard CAGRs. This initial volume increase is detailed below:

- An increase of 199,000 S train containers from San Pedro Ports to BIG's IMF. These are containers associated with the mode shift from truck to rail.

- An increase of 132,667 Q train containers resulting from the transloaded S train containers that will head east from BIG's IMF. These are containers associated with the mode shift from truck to rail.

- A decrease of 18,000 Q train containers west of BIG (localized domestic truck volume transloaded at BIG instead of heading farther west to other stations to get transloaded).

The Proposed Project 2028 scenario for other containers volumes loaded onto "Z", "S", and "Q" trains assume growth based on standard CAGRs. All other train types were not modeled for any growth. Detailed volume and train trips for Proposed Project scenarios can be found in Appendix A. Table 24 summarizes the Proposed Project GHG emissions. See Appendix E for detailed calculations.

Table 24
Project 2028: Annual Corridor GHG Emissions
(metric tons/yr)

Region	CO_2	N_2O	CH_4	$CO2e^2$
SCAQMD	171,450.5	4.4	13.4	173,087.4
MDAQMD	710,864.7	18.1	55.7	717,651.7
West of BIG	250,546.2	6.4	19.6	252,938.3
East of BIG	631,769.0	16.1	49.5	637,800.8
Total	882,315.2	22.5	69.1	890,739.1

Notes:
GHG = Greenhouse gas
CO_2 = Carbon dioxide
N_2O = Nitrous Oxide
CH_4 = Methane
CO2e = Carbon dioxide equivalent
Global warming potentials for CO2e based on Table A-1 to Subpart A of Part 98, Title 40.
Source: EnSafe, Inc.

5.2.2 2033 Emissions Summary

The Proposed Project 2033 scenario models the "ramp up" period of the BIG facility. The "ramp up" period is the 5-year period of a CAGR of 5.75% after the opening year of 2028 and includes 2029 to 2033. This CAGR adjustments for the "ramp up" period is detailed below:

- S Trains – International containers that go from San Pedro Ports to BIG's IMF for transloading (cross-dock intermodal containers).

- Q Trains – Domestic containers that go from BIG eastward after transloading (cross-dock intermodal containers, previously known as S-trains prior to transloading, which are converted to Q-trains after transloading).

The Proposed Project 2033 scenario for other containers volumes loaded onto "Z", "S", and "Q" trains assume growth based on standard CAGRs. All other train types were not modeled for any growth. Detailed volume and train trips for Proposed Project scenarios can be found in Appendix A. Table 25 summarizes the Proposed Project GHG emissions. See Appendix E for detailed calculations.

Table 25
Project 2033: Annual Corridor GHG Emissions
(metric tons/yr)

Region	CO_2	N_2O	CH_4	$CO2e^2$
SCAQMD	188,700.0	4.8	14.8	190,501.6
MDAQMD	773,423.2	19.7	60.6	780,807.5
West of BIG	274,865.4	7.0	21.5	277,489.7
East of BIG	687,257.9	17.5	53.8	693,819.5
Total	962,123.2	24.5	75.4	971,309.1

Notes:
GHG = Greenhouse gas
CO_2 = Carbon dioxide
N_2O = Nitrous Oxide
CH_4 = Methane
CO2e = Carbon dioxide equivalent
Global warming potentials for CO2e based on Table A-1 to Subpart A of Part 98, Title 40.
Source: EnSafe, Inc.

5.2.3 2048 Emissions Summary

The Proposed Project 2048 scenario for "Z", "S", and "Q" trains assume growth based on standard CAGRs. All other train types were not modeled for any growth. Detailed volume and train trips for Proposed Project scenarios can be found in Appendix A. Table 26 summarizes the Proposed Project GHG emissions. See Appendix E for detailed calculations.

Table 26 Project 2048: Annual Corridor GHG Emissions (metric tons/yr)				
Region	**CO_2**	**N_2O**	**CH_4**	**$CO2e^2$**
SCAQMD	237,679.4	6.1	18.6	239,948.7
MDAQMD	968,689.0	24.7	75.9	977,937.5
West of BIG	344,881.2	8.8	27.0	348,174.0
East of BIG	861,487.2	21.9	67.5	869,712.2
Total	1,206,368.4	30.7	94.5	1,217,886.2

Notes:
GHG = Greenhouse gas
CO_2 = Carbon dioxide
N_2O = Nitrous Oxide
CH_4 = Methane
CO2e = Carbon dioxide equivalent
Global warming potentials for CO2e based on Table A-1 to Subpart A of Part 98, Title 40.
Source: EnSafe, Inc.

5.3 Proposed Project Incremental Emissions

Below is a summary of the comparison of GHG emissions for the No Project and Proposed Project scenarios for all analysis years.

5.3.1 2028 Emissions Comparison

The comparison of 2028 GHG emissions is presented in Table 27.

Table 27 Incremental Project 2028: Annual Corridor GHG Emissions (metric tons/yr)				
Region	**CO_2**	**N_2O**	**CH_4**	**$CO2e^2$**
SCAQMD	16,040.1	0.4	1.3	16,193.3
MDAQMD	20,957.1	0.5	1.6	21,157.2
West of BIG	20,335.7	0.5	1.6	20,529.9
East of BIG	16,661.5	0.4	1.3	16,820.6
Total	36,997.2	0.9	2.9	37,350.4

Notes:
GHG = Greenhouse gas
CO_2 = Carbon dioxide
N_2O = Nitrous Oxide
CH_4 = Methane
CO2e = Carbon dioxide equivalent
Global warming potentials for CO2e based on Table A-1 to Subpart A of Part 98, Title 40.
Source: EnSafe, Inc.

The results from the annual moving corridor GHG emissions for the SCAQMD region under the Proposed Project scenario indicate an increase of 16,040.1, 0.4, 1.3, 16193.3 metric tons per year for CO_2, N_2O, CH_4, CO_2e, respectively, compared to the No Project scenario.

The results from the annual moving corridor GHG emissions for the MDAQMD region under the Proposed Project scenario indicate an increase of 20,957.1, 0.5, 1.6, and 21,157.2 metric tons per year for CO_2, N_2O, CH_4, CO_2e, respectively, compared to the No Project scenario.

The results from the annual moving corridor GHG emissions for the West of BIG region under the Proposed Project scenario indicate an increase of 20,335.7, 0.5, 1.6, and 20,529.9 metric tons per year for CO_2, N_2O, CH_4, CO_2e, respectively, compared to the No Project scenario.

The results from the annual moving corridor GHG emissions for the East of BIG region under the Proposed Project scenario indicate an increase of 16,661.5, 0.4, 1.3, and 16,820.6 metric tons per year for CO_2, N_2O, CH_4, CO_2e, respectively, compared to the No Project scenario.

The results from the annual moving corridor GHG emissions for the total (SCAQMD and MDAQMD) region under the Proposed Project scenario indicate an increase of 36,997.2, 0.9, 2.9, and 37,350.4 metric tons per year for CO_2, N_2O, CH_4, CO_2e, respectively, compared to the No Project scenario.

5.3.2 2033 Emissions Comparison

The comparison of 2033 GHG emissions is presented in Table 28.

Table 28
Incremental Project 2033: Annual Corridor GHG Emissions
(metric tons/yr)

Region	CO_2	N_2O	CH_4	$CO2e^2$
SCAQMD	21,513.7	0.5	1.7	21,719.1
MDAQMD	32,878.7	0.8	2.6	33,192.7
West of BIG	27,602.0	0.7	2.2	27,865.5
East of BIG	26,790.5	0.7	2.1	27,046.3
Total	54,392.5	1.4	4.3	54,911.8

Notes:
GHG = Greenhouse gas
CO_2 = Carbon dioxide
N_2O = Nitrous Oxide
CH_4 = Methane
CO2e = Carbon dioxide equivalent
Global warming potentials for CO2e based on Table A-1 to Subpart A of Part 98, Title 40.
Source: EnSafe, Inc.

The results from the annual moving corridor GHG emissions for the SCAQMD region under the Proposed Project scenario indicate an increase of 21,513.7, 0.5, 1.7, and 21,719.1 metric tons per year for CO_2, N_2O, CH_4, CO_2e, respectively, compared to the No Project scenario.

The results from the annual moving corridor GHG emissions for the MDAQMD region under the Proposed Project scenario indicate an increase of 32,878.7, 0.8, 2.6, and 33,192.7 metric tons per year for CO_2, N_2O, CH_4, CO_2e, respectively, compared to the No Project scenario.

The results from the annual moving corridor GHG emissions for the West of BIG region under the Proposed Project scenario indicate an increase of 27,602.0, 0.7, 2.2, and 27,865.5 metric tons per year for CO_2, N_2O, CH_4, CO_2e, respectively, compared to the No Project scenario.

The results from the annual moving corridor GHG emissions for the East of BIG region under the Proposed Project scenario indicate an increase of 26,790.5, 0.7, 2.1, and 27,046.3 metric tons per year for CO_2, N_2O, CH_4, CO_2e, respectively, compared to the No Project scenario.

The results from the annual moving corridor GHG emissions for the total (SCAQMD and MDAQMD) region under the Proposed Project scenario indicate an increase of 54,392.5, 1.4, 4.3, 54,911.8 metric tons per year for CO_2, N_2O, CH_4, CO_2e, respectively, compared to the No Project scenario.

5.3.3 2048 Emissions Comparison

The comparison of 2048 GHG emissions is presented in Table 29.

Table 29
Incremental Project 2048: Annual Corridor GHG Emissions
(metric tons/yr)

Region	CO_2	N_2O	CH_4	$CO2e^2$
SCAQMD	25,690.6	0.7	2.0	25,935.9
MDAQMD	32,829.7	0.8	2.6	33,143.1
West of BIG	31,956.1	0.8	2.5	32,261.2
East of BIG	26,564.2	0.7	2.1	26,817.8
Total	58,520.3	1.5	4.6	59,079.0

Notes:
GHG = Greenhouse gas
CO_2 = Carbon dioxide
N_2O = Nitrous Oxide
CH_4 = Methane
CO2e = Carbon dioxide equivalent
Global warming potentials for CO2e based on Table A-1 to Subpart A of Part 98, Title 40.
Source: EnSafe, Inc.

The results from the annual moving corridor GHG emissions for the SCAQMD region under the Proposed Project scenario indicate an increase of 25,690.6, 0.7, 2.0, and 25,935.9 metric tons per year for CO_2, N_2O, CH_4, CO_2e, respectively, compared to the No Project scenario.

The results from the annual moving corridor GHG emissions for the MDAQMD region under the Proposed Project scenario indicate an increase of 32,829.7, 0.8, 2.6, and 33,143.1 metric tons per year for CO_2, N_2O, CH_4, CO_2e, respectively, compared to the No Project scenario.

The results from the annual moving corridor GHG emissions for the West of BIG region under the Proposed Project scenario indicate an increase of 31,956.1, 0.8, 2.5, and 32,261.2 metric tons per year for CO_2, N_2O, CH_4, CO_2e, respectively, compared to the No Project scenario.

The results from the annual moving corridor GHG emissions for the East of BIG region under the Proposed Project scenario indicate an increase of 26,564.2, 0.7, 2.1, and 26,817.8 metric tons per year for CO_2, N_2O, CH_4, CO_2e, respectively, compared to the No Project scenario.

The results from the annual moving corridor GHG emissions for the total (SCAQMD and MDAQMD) region under the Proposed Project scenario indicate an increase of 58,520.3, 1.5, 4.6, and 59,079.0 metric tons per year for CO_2, N_2O, CH_4, CO_2e, respectively, compared to the No Project scenario.

6.0 GLOSSARY

Affected Trains —This includes train types B, Q, and S. These trains may have additional train trips due to changes to 40-foot intermodal container volumes in the Proposed Project scenarios+.

Analysis Year – This includes 2028, project construction commencement, 2033, interim operational year, and 2048, full operational build out.

Corridor — Rail line owned and operated by BNSF between the San Pedro Ports and Needles Station as shown on Figure 1. The Corridor does not include any station/facility emissions, only emissions occurring on the railroad tracks.

Corridor Segments – There are four segments in the CEM. 1) San Pedro Ports to San Bernardino station, 2) San Bernardino station to Summit station, 3) Summit station to Barstow station/BIG, and 4) Barstow station/BIG to Needles station.

Criteria Pollutants – Includes volatile organic compounds (VOCs), carbon monoxide (CO), nitrous oxides (NOx), sulfur oxides (SOx), and particulate matter emissions smaller than 10 micron (PM10), and particulate matter smaller than 2.5 micron (PM2.5).

Dedicated Fleet – A BIG-only dedicated fleet of Tier 4 locomotives that will move the additional volume of containers generated by the Project on S trains from the San Pedro Ports to the intermodal facility at BIG.

Eastbound — Trains traveling in the rail corridor towards Needles, California.

Fleet Mix — Characterization of the mix of engine tiers of the locomotives in the BNSF fleet. The projected fleet mixes are based on the actual 2023 fleet mix provided by BNSF and adjusted for the No Project and Proposed Project conditions.

Fuel Efficiency Model (FEM) — A regression model based on actual 2023 fuel usage data provided by BNSF to estimate the fuel efficiency for the various scenarios and modeled operational analysis years.

Gross Ton-Miles — The measure of the weight and distance a train traveled along the rail corridor.

Horsepower Ton (HPT) — A measure of theoretical locomotive power required to move a train of a measured weight across a distance.

Idling Emissions — Emissions within the rail corridor between Los Angeles, California and Needles, California for all locomotives under minimum operating conditions while a train is not moving. Assumes that each locomotive outputs 25 horsepower during idling conditions.

Mojave Desert Air Quality Management District Emissions — The rail corridor moving and idling emissions occurring within the jurisdiction of MDAQMD extending from Summit station to Needles station.

Moving Emissions — Emissions associated with all train movements within the rail corridor between Los Angeles, California, and Needles, California.

Non-Affected Trains — All other BNSF trains, such as trains that haul a mix of commodities and container types, road switchers, and helper trains. This includes train types D, K, R, Z, G, H, L, M, U, V, and X. These trains will not have any additional train trips due to changes in container volumes in the Proposed Project scenarios.

Scenarios – No Project and Project scenarios are summarized in the table below.

Component	No Project	Proposed Project
Train Profiles	Includes number of locomotives, locomotive weight, freight weight, direction of travel, distance traveled, and idling time.	Identical to the No Project scenario.
Train Trips	Based on 2022/2023 BNSF data. Assumes CAGRs between 1% and 2.5% for Z, Q, and S trains and no growth for all other trains. See Appendix B for details.	CAGR of 2.5% for Z trains. Volume adjusted change in train trips for Q and S trains. No growth for all other trains. See Appendix B for details.
Fleet Mix	Based on 2023 report for the 1998 MOU and adjusted for full conversion of Teir 0 and 1 to Tier 1+ and Tier 2 to Tier 2+. 33 Tier 4 purchases per year with associated Tier 1 retirements.	Identical to the No Project scenario except for the additional Dedicated Fleet of Tier 4 locomotives for the additional S train container volume (generated by the mode shift from truck to rail) between the San Pedro Ports and BIG.
Fuel Blend	1 percent renewable diesel for eastbound trips. Zero renewable for westbound trips.	10 percent renewable diesel for eastbound trips. Zero renewable for westbound trips.
Fuel Emission Factors	Based on line-haul locomotives. Criteria pollutant emissions factors based on EPA. GHG emission factors based on CARB.	Identical to the No Project scenario.
Fuel Efficiency	Regression model based on 2023 BNSF data.	Identical to the No Project scenario.

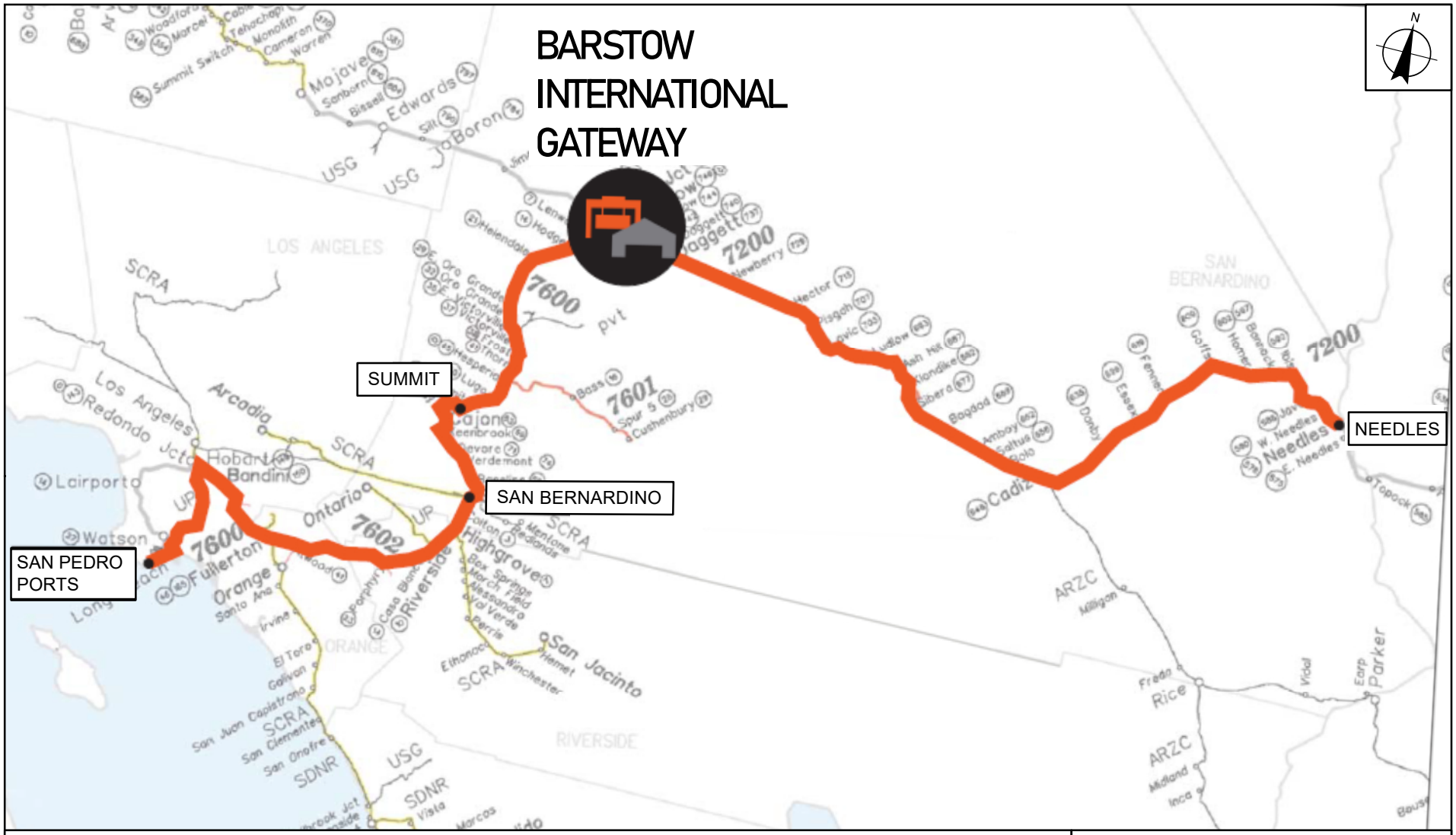
South Coast Air Quality Management District Emissions — The rail corridor moving and idling emissions occurring within the jurisdiction of the South Coast Air Quality Management District extending from San Pedro Ports to the Summit Station.

Train Profile — Characterizes the number of locomotives, weight of locomotives, weight of freight, direction of travel, and distance traveled for an average train type in the rail corridor between Los Angeles, California and Needles, California. The projected train profiles are based on actual 2022/2023 train profile data and adjusted for the Project. Actual train compositions vary daily; therefore, an annual average was used to generate representative train profiles for each train type.

Train Trips – The number of train trips is based on actual 2022-2023 data (the most recent year for which data was available when the modeling commenced), and the daily train trip rate was generated by summing the total number of train trips in each segment and dividing by 365 days per year. The number of daily train trips is not expected to change for most trains in any scenario. The only trains that are expected to change for each scenario are trains that primarily contain 40-foot intermodal containers.

Westbound — Trains traveling in the rail corridor towards Los Angeles, California.

Figures



LEGEND

- STATIONS
- CORRIDOR

WGS 1984 WEB MERCATOR
(AUXILIARY SPHERE)

0 16.5 33

SCALE IN MILES

FIGURE 1
SITE LOCATION AND CORRIDOR MAP
BNSF BARSTOW INTERNATIONAL GATEWAY
CORRIDOR EMISSION MODEL
CALIFORNIA

REQUESTED BY:	MC
DRAWN BY:	RC
DATE:	9/23/2025
PROJECT:	0888840509

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Appendix A
Train Profiles

No Project - port_sbd Base Year 2023

Train Type		Train-Trip Length (Eastbound)	Train-Trip Length (Westbound)	Daily Trains (Eastbound)	Daily Trains (Westbound)	Locomotives (Eastbound)	Locomotives (Westbound)	Locomotive Weight (Eastbound)	Locomotive Weight (Westbound)	Freight Weight (Eastbound)	Freight Weight (Westbound)
Units		miles/train-trip	miles/train-trip	train-trips/day	train-trips/day	loco/train	loco/train	tons/train	tons/train	tons/train	tons/train
B-Bare Table Intrmdl	B	65.49	66.85	0.39	2.11	2.00	2.00	454.00	454.00	2456.63	2586.85
Q-Guaranteed Intrmdl	Q	67.77	65.65	2.66	3.10	3.32	2.38	754.64	541.38	5850.98	5246.88
S-Stack Train	S	86.20	86.20	3.68	4.56	5.60	3.49	1271.07	792.43	9854.98	7679.92
Z	Z	65.08	65.23	5.06	4.02	3.86	3.17	875.71	720.03	5473.26	4605.37
NIM-Non-Intrmdl	NIM	56.95	58.84	3.49	4.12	3.32	3.37	753.03	764.03	5838.46	7404.69

2028 No Project 2028

Train Type		Train-Trip Length (Eastbound)	Train-Trip Length (Westbound)	Daily Trains (Eastbound)	Daily Trains (Westbound)	Locomotives (Eastbound)	Locomotives (Westbound)	Locomotive Weight (Eastbound)	Locomotive Weight (Westbound)	Freight Weight (Eastbound)	Freight Weight (Westbound)
Units		miles/train-trip	miles/train-trip	train-trips/day	train-trips/day	loco/train	loco/train	tons/train	tons/train	tons/train	tons/train
B-Bare Table Intrmdl	B	65.49	66.85	0.39	2.11	2.00	2.00	454.00	454.00	2456.63	2586.85
Q-Guaranteed Intrmdl	Q	67.77	65.65	2.97	3.46	3.32	2.38	754.64	541.38	5850.98	5246.88
S-Stack Train	S	86.20	86.20	3.86	4.79	5.60	3.49	1271.07	792.43	9854.98	7679.92
Z	Z	65.08	65.23	5.73	4.55	3.86	3.17	875.71	720.03	5473.26	4605.37
NIM-Non-Intrmdl	NIM	56.95	58.84	3.49	4.12	3.32	3.37	753.03	764.03	5838.46	7404.69

2033 No Project 2033

Train Type		Train-Trip Length (Eastbound)	Train-Trip Length (Westbound)	Daily Trains (Eastbound)	Daily Trains (Westbound)	Locomotives (Eastbound)	Locomotives (Westbound)	Locomotive Weight (Eastbound)	Locomotive Weight (Westbound)	Freight Weight (Eastbound)	Freight Weight (Westbound)
Units		miles/train-trip	miles/train-trip	train-trips/day	train-trips/day	loco/train	loco/train	tons/train	tons/train	tons/train	tons/train
B-Bare Table Intrmdl	B	65.49	66.85	0.39	2.11	2.00	2.00	454.00	454.00	2456.63	2586.85
Q-Guaranteed Intrmdl	Q	67.77	65.65	3.33	3.87	3.32	2.38	754.64	541.38	5850.98	5246.88
S-Stack Train	S	86.20	86.20	4.06	5.03	5.60	3.49	1271.07	792.43	9854.98	7679.92
Z	Z	65.08	65.23	6.48	5.15	3.86	3.17	875.71	720.03	5473.26	4605.37
NIM-Non-Intrmdl	NIM	56.95	58.84	3.49	4.12	3.32	3.37	753.03	764.03	5838.46	7404.69

2048 No Project 2048

Train Type		Train-Trip Length (Eastbound)	Train-Trip Length (Westbound)	Daily Trains (Eastbound)	Daily Trains (Westbound)	Locomotives (Eastbound)	Locomotives (Westbound)	Locomotive Weight (Eastbound)	Locomotive Weight (Westbound)	Freight Weight (Eastbound)	Freight Weight (Westbound)
Units		miles/train-trip	miles/train-trip	train-trips/day	train-trips/day	loco/train	loco/train	tons/train	tons/train	tons/train	tons/train
B-Bare Table Intrmdl	B	65.49	66.85	0.39	2.11	2.00	2.00	454.00	454.00	2456.63	2586.85
Q-Guaranteed Intrmdl	Q	67.77	65.65	4.67	5.43	3.32	2.38	754.64	541.38	5850.98	5246.88
S-Stack Train	S	86.20	86.20	4.72	5.84	5.60	3.49	1271.07	792.43	9854.98	7679.92
Z	Z	65.08	65.23	9.38	7.46	3.86	3.17	875.71	720.03	5473.26	4605.37
NIM-Non-Intrmdl	NIM	56.95	58.84	3.49	4.12	3.32	3.37	753.03	764.03	5838.46	7404.69

No Project - sbd_suc Base Year 2023

Train Type		Train-Trip Length (Eastbound)	Train-Trip Length (Westbound)	Daily Trains (Eastbound)	Daily Trains (Westbound)	Locomotives (Eastbound)	Locomotives (Westbound)	Locomotive Weight (Eastbound)	Locomotive Weight (Westbound)	Freight Weight (Eastbound)	Freight Weight (Westbound)
Units		miles/train-trip	miles/train-trip	train-trips/day	train-trips/day	loco/train	loco/train	tons/train	tons/train	tons/train	tons/train
B-Bare Table Intrmdl	B	25.20	25.20	0.71	2.86	2.00	2.00	454.00	454.00	2344.22	2684.37
Q-Guaranteed Intrmdl	Q	25.20	25.20	3.23	3.97	3.35	2.47	759.41	561.52	5887.94	5442.03
S-Stack Train	S	25.20	25.20	3.64	4.54	5.56	3.62	1262.58	821.83	9789.19	7964.85
Z	Z	25.20	25.20	8.76	6.95	3.94	3.45	894.77	782.51	5592.40	5005.04
NIM-Non-Intrmdl	NIM	25.20	25.20	5.18	5.79	2.95	3.40	670.10	772.67	5195.49	7488.44

2028 No Project 2028

Train Type		Train-Trip Length (Eastbound)	Train-Trip Length (Westbound)	Daily Trains (Eastbound)	Daily Trains (Westbound)	Locomotives (Eastbound)	Locomotives (Westbound)	Locomotive Weight (Eastbound)	Locomotive Weight (Westbound)	Freight Weight (Eastbound)	Freight Weight (Westbound)
Units		miles/train-trip	miles/train-trip	train-trips/day	train-trips/day	loco/train	loco/train	tons/train	tons/train	tons/train	tons/train
B-Bare Table Intrmdl	B	25.20	25.20	0.71	2.86	2.00	2.00	454.00	454.00	2344.22	2684.37
Q-Guaranteed Intrmdl	Q	25.20	25.20	3.62	4.44	3.35	2.47	759.41	561.52	5887.94	5442.03
S-Stack Train	S	25.20	25.20	3.83	4.77	5.56	3.62	1262.58	821.83	9789.19	7964.85
Z	Z	25.20	25.20	9.92	7.86	3.94	3.45	894.77	782.51	5592.40	5005.04
NIM-Non-Intrmdl	NIM	25.20	25.20	5.18	5.79	2.95	3.40	670.10	772.67	5195.49	7488.44

2033 No Project 2033

Train Type		Train-Trip Length (Eastbound)	Train-Trip Length (Westbound)	Daily Trains (Eastbound)	Daily Trains (Westbound)	Locomotives (Eastbound)	Locomotives (Westbound)	Locomotive Weight (Eastbound)	Locomotive Weight (Westbound)	Freight Weight (Eastbound)	Freight Weight (Westbound)
Units		miles/train-trip	miles/train-trip	train-trips/day	train-trips/day	loco/train	loco/train	tons/train	tons/train	tons/train	tons/train
B-Bare Table Intrmdl	B	25.20	25.20	0.71	2.86	2.00	2.00	454.00	454.00	2344.22	2684.37
Q-Guaranteed Intrmdl	Q	25.20	25.20	4.05	4.98	3.35	2.47	759.41	561.52	5887.94	5442.03
S-Stack Train	S	25.20	25.20	4.03	5.01	5.56	3.62	1262.58	821.83	9789.19	7964.85
Z	Z	25.20	25.20	11.22	8.90	3.94	3.45	894.77	782.51	5592.40	5005.04
NIM-Non-Intrmdl	NIM	25.20	25.20	5.18	5.79	2.95	3.40	670.10	772.67	5195.49	7488.44

2048 No Project 2048

Train Type		Train-Trip Length (Eastbound)	Train-Trip Length (Westbound)	Daily Trains (Eastbound)	Daily Trains (Westbound)	Locomotives (Eastbound)	Locomotives (Westbound)	Locomotive Weight (Eastbound)	Locomotive Weight (Westbound)	Freight Weight (Eastbound)	Freight Weight (Westbound)
Units		miles/train-trip	miles/train-trip	train-trips/day	train-trips/day	loco/train	loco/train	tons/train	tons/train	tons/train	tons/train
B-Bare Table Intrmdl	B	25.20	25.20	0.71	2.86	2.00	2.00	454.00	454.00	2344.22	2684.37
Q-Guaranteed Intrmdl	Q	25.20	25.20	5.72	7.03	3.35	2.47	759.41	561.52	5887.94	5442.03
S-Stack Train	S	25.20	25.20	4.67	5.82	5.56	3.62	1262.58	821.83	9789.19	7964.85
Z	Z	25.20	25.20	16.25	12.89	3.94	3.45	894.77	782.51	5592.40	5005.04
NIM-Non-Intrmdl	NIM	25.20	25.20	5.18	5.79	2.95	3.40	670.10	772.67	5195.49	7488.44

No Project - suc_bar Base Year 2023

Train Type		Train-Trip Length (Eastbound)	Train-Trip Length (Westbound)	Daily Trains (Eastbound)	Daily Trains (Westbound)	Locomotives (Eastbound)	Locomotives (Westbound)	Locomotive Weight (Eastbound)	Locomotive Weight (Westbound)	Freight Weight (Eastbound)	Freight Weight (Westbound)
Units		miles/train-trip	miles/train-trip	train-trips/day	train-trips/day	loco/train	loco/train	tons/train	tons/train	tons/train	tons/train
B-Bare Table Intrmdl	B	56.10	56.10	0.70	2.85	2.00	2.00	454.00	454.00	2307.42	2681.37
Q-Guaranteed Intrmdl	Q	56.10	56.10	3.23	3.97	3.35	2.48	759.40	562.39	5887.87	5450.50
S-Stack Train	S	56.10	56.10	3.64	4.53	5.56	3.62	1263.07	821.52	9792.95	7961.87
Z	Z	56.10	56.10	8.76	6.95	3.94	3.45	894.78	782.87	5592.45	5007.35
NIM-Non-Intrmdl	NIM	56.10	56.10	5.02	5.64	2.93	3.39	665.23	768.58	5157.71	7448.78

2028 No Project 2028

Train Type		Train-Trip Length (Eastbound)	Train-Trip Length (Westbound)	Daily Trains (Eastbound)	Daily Trains (Westbound)	Locomotives (Eastbound)	Locomotives (Westbound)	Locomotive Weight (Eastbound)	Locomotive Weight (Westbound)	Freight Weight (Eastbound)	Freight Weight (Westbound)
Units		miles/train-trip	miles/train-trip	train-trips/day	train-trips/day	loco/train	loco/train	tons/train	tons/train	tons/train	tons/train
B-Bare Table Intrmdl	B	56.10	56.10	0.70	2.85	2.00	2.00	454.00	454.00	2307.42	2681.37
Q-Guaranteed Intrmdl	Q	56.10	56.10	3.62	4.45	3.35	2.48	759.40	562.39	5887.87	5450.50
S-Stack Train	S	56.10	56.10	3.83	4.77	5.56	3.62	1263.07	821.52	9792.95	7961.87
Z	Z	56.10	56.10	9.92	7.86	3.94	3.45	894.78	782.87	5592.45	5007.35
NIM-Non-Intrmdl	NIM	56.10	56.10	5.02	5.64	2.93	3.39	665.23	768.58	5157.71	7448.78

2033 No Project 2033

Train Type		Train-Trip Length (Eastbound)	Train-Trip Length (Westbound)	Daily Trains (Eastbound)	Daily Trains (Westbound)	Locomotives (Eastbound)	Locomotives (Westbound)	Locomotive Weight (Eastbound)	Locomotive Weight (Westbound)	Freight Weight (Eastbound)	Freight Weight (Westbound)
Units		miles/train-trip	miles/train-trip	train-trips/day	train-trips/day	loco/train	loco/train	tons/train	tons/train	tons/train	tons/train
B-Bare Table Intrmdl	B	56.10	56.10	0.70	2.85	2.00	2.00	454.00	454.00	2307.42	2681.37
Q-Guaranteed Intrmdl	Q	56.10	56.10	4.05	4.98	3.35	2.48	759.40	562.39	5887.87	5450.50
S-Stack Train	S	56.10	56.10	4.03	5.01	5.56	3.62	1263.07	821.52	9792.95	7961.87
Z	Z	56.10	56.10	11.22	8.90	3.94	3.45	894.78	782.87	5592.45	5007.35
NIM-Non-Intrmdl	NIM	56.10	56.10	5.02	5.64	2.93	3.39	665.23	768.58	5157.71	7448.78

2048 No Project 2048

Train Type		Train-Trip Length (Eastbound)	Train-Trip Length (Westbound)	Daily Trains (Eastbound)	Daily Trains (Westbound)	Locomotives (Eastbound)	Locomotives (Westbound)	Locomotive Weight (Eastbound)	Locomotive Weight (Westbound)	Freight Weight (Eastbound)	Freight Weight (Westbound)
Units		miles/train-trip	miles/train-trip	train-trips/day	train-trips/day	loco/train	loco/train	tons/train	tons/train	tons/train	tons/train
B-Bare Table Intrmdl	B	56.10	56.10	0.70	2.85	2.00	2.00	454.00	454.00	2307.42	2681.37
Q-Guaranteed Intrmdl	Q	56.10	56.10	5.72	7.03	3.35	2.48	759.40	562.39	5887.87	5450.50
S-Stack Train	S	56.10	56.10	4.67	5.81	5.56	3.62	1263.07	821.52	9792.95	7961.87
Z	Z	56.10	56.10	16.25	12.89	3.94	3.45	894.78	782.87	5592.45	5007.35
NIM-Non-Intrmdl	NIM	56.10	56.10	5.02	5.64	2.93	3.39	665.23	768.58	5157.71	7448.78

No Project - bar_nee Base Year 2023

Train Type		Train-Trip Length (Eastbound)	Train-Trip Length (Westbound)	Daily Trains (Eastbound)	Daily Trains (Westbound)	Locomotives (Eastbound)	Locomotives (Westbound)	Locomotive Weight (Eastbound)	Locomotive Weight (Westbound)	Freight Weight (Eastbound)	Freight Weight (Westbound)
Units		miles/train-trip	miles/train-trip	train-trips/day	train-trips/day	loco/train	loco/train	tons/train	tons/train	tons/train	tons/train
B-Bare Table Intrmdl	B	167.40	167.40	0.55	1.88	2.00	2.00	454.00	454.00	2405.38	2719.81
Q-Guaranteed Intrmdl	Q	167.40	167.40	5.05	5.22	2.68	2.66	609.18	603.96	5903.96	5853.32
S-Stack Train	S	167.40	167.40	3.72	4.57	4.43	3.65	1006.08	827.47	9750.60	8019.52
Z	Z	167.40	167.40	10.84	9.59	3.78	3.39	857.67	770.07	5357.14	4811.96
NIM-Non-Intrmdl	NIM	167.40	167.40	6.81	7.75	2.80	4.67	636.50	1060.69	6168.76	10279.78

2028 No Project 2028

Train Type		Train-Trip Length (Eastbound)	Train-Trip Length (Westbound)	Daily Trains (Eastbound)	Daily Trains (Westbound)	Locomotives (Eastbound)	Locomotives (Westbound)	Locomotive Weight (Eastbound)	Locomotive Weight (Westbound)	Freight Weight (Eastbound)	Freight Weight (Westbound)
Units		miles/train-trip	miles/train-trip	train-trips/day	train-trips/day	loco/train	loco/train	tons/train	tons/train	tons/train	tons/train
B-Bare Table Intrmdl	B	167.40	167.40	0.55	1.88	2.00	2.00	454.00	454.00	2405.38	2719.81
Q-Guaranteed Intrmdl	Q	167.40	167.40	5.67	5.86	2.68	2.66	609.18	603.96	5903.96	5853.32
S-Stack Train	S	167.40	167.40	3.91	4.80	4.43	3.65	1006.08	827.47	9750.60	8019.52
Z	Z	167.40	167.40	12.27	10.86	3.78	3.39	857.67	770.07	5357.14	4811.96
NIM-Non-Intrmdl	NIM	167.40	167.40	6.81	7.75	2.80	4.67	636.50	1060.69	6168.76	10279.78

2033 No Project 2033

Train Type		Train-Trip Length (Eastbound)	Train-Trip Length (Westbound)	Daily Trains (Eastbound)	Daily Trains (Westbound)	Locomotives (Eastbound)	Locomotives (Westbound)	Locomotive Weight (Eastbound)	Locomotive Weight (Westbound)	Freight Weight (Eastbound)	Freight Weight (Westbound)
Units		miles/train-trip	miles/train-trip	train-trips/day	train-trips/day	loco/train	loco/train	tons/train	tons/train	tons/train	tons/train
B-Bare Table Intrmdl	B	167.40	167.40	0.55	1.88	2.00	2.00	454.00	454.00	2405.38	2719.81
Q-Guaranteed Intrmdl	Q	167.40	167.40	6.36	6.58	2.68	2.66	609.18	603.96	5903.96	5853.32
S-Stack Train	S	167.40	167.40	4.11	5.04	4.43	3.65	1006.08	827.47	9750.60	8019.52
Z	Z	167.40	167.40	13.88	12.28	3.78	3.39	857.67	770.07	5357.14	4811.96
NIM-Non-Intrmdl	NIM	167.40	167.40	6.81	7.75	2.80	4.67	636.50	1060.69	6168.76	10279.78

2048 No Project 2048

Train Type		Train-Trip Length (Eastbound)	Train-Trip Length (Westbound)	Daily Trains (Eastbound)	Daily Trains (Westbound)	Locomotives (Eastbound)	Locomotives (Westbound)	Locomotive Weight (Eastbound)	Locomotive Weight (Westbound)	Freight Weight (Eastbound)	Freight Weight (Westbound)
Units		miles/train-trip	miles/train-trip	train-trips/day	train-trips/day	loco/train	loco/train	tons/train	tons/train	tons/train	tons/train
B-Bare Table Intrmdl	B	167.40	167.40	0.55	1.88	2.00	2.00	454.00	454.00	2405.38	2719.81
Q-Guaranteed Intrmdl	Q	167.40	167.40	9.04	9.34	2.68	2.66	609.18	603.96	5903.96	5853.32
S-Stack Train	S	167.40	167.40	4.77	5.86	4.43	3.65	1006.08	827.47	9750.60	8019.52
Z	Z	167.40	167.40	20.10	17.79	3.78	3.39	857.67	770.07	5357.14	4811.96
NIM-Non-Intrmdl	NIM	167.40	167.40	6.81	7.75	2.80	4.67	636.50	1060.69	6168.76	10279.78

Project - port_sbd Base Year 2023

Train Type		Train-Trip Length (Eastbound)	Train-Trip Length (Westbound)	Daily Trains (Eastbound)	Daily Trains (Westbound)	Locomotives (Eastbound)	Locomotives (Westbound)	Locomotive Weight (Eastbound)	Locomotive Weight (Westbound)	Freight Weight (Eastbound)	Freight Weight (Westbound)
Units		miles/train-trip	miles/train-trip	train-trips/day	train-trips/day	loco/train	loco/train	tons/train	tons/train	tons/train	tons/train
B-Bare Table Intrmdl	B	65.49	66.85	0.39	2.11	2.00	2.00	454.00	454.00	2456.63	2586.85
Q-Guaranteed Intrmdl	Q	67.77	65.65	2.66	3.10	3.32	2.38	754.64	541.38	5850.98	5246.88
S-Stack Train	S	86.20	86.20	3.68	4.56	5.60	3.49	1271.07	792.43	9854.98	7679.92
Z	Z	65.08	65.23	5.06	4.02	3.86	3.17	875.71	720.03	5473.26	4605.37
NIM-Non-Intrmdl	NIM	56.95	58.84	3.49	4.12	3.32	3.37	753.03	764.03	5838.46	7404.69

2028 No Project 2028

Train Type		Train-Trip Length (Eastbound)	Train-Trip Length (Westbound)	Daily Trains (Eastbound)	Daily Trains (Westbound)	Locomotives (Eastbound)	Locomotives (Westbound)	Locomotive Weight (Eastbound)	Locomotive Weight (Westbound)	Freight Weight (Eastbound)	Freight Weight (Westbound)
Units		miles/train-trip	miles/train-trip	train-trips/day	train-trips/day	loco/train	loco/train	tons/train	tons/train	tons/train	tons/train
B-Bare Table Intrmdl	B	65.49	66.85	0.39	2.11	2.00	2.00	454.00	454.00	2456.63	2586.85
Q-Guaranteed Intrmdl	Q	67.77	65.65	2.88	3.35	3.32	2.38	754.64	541.38	5850.98	5246.88
S-Stack Train	S	86.20	86.20	5.32	6.59	5.60	3.49	1271.07	792.43	9854.98	7679.92
Z	Z	65.08	65.23	5.73	4.55	3.86	3.17	875.71	720.03	5473.26	4605.37
NIM-Non-Intrmdl	NIM	56.95	58.84	3.49	4.12	3.32	3.37	753.03	764.03	5838.46	7404.69

2033 No Project 2033

Train Type		Train-Trip Length (Eastbound)	Train-Trip Length (Westbound)	Daily Trains (Eastbound)	Daily Trains (Westbound)	Locomotives (Eastbound)	Locomotives (Westbound)	Locomotive Weight (Eastbound)	Locomotive Weight (Westbound)	Freight Weight (Eastbound)	Freight Weight (Westbound)
Units		miles/train-trip	miles/train-trip	train-trips/day	train-trips/day	loco/train	loco/train	tons/train	tons/train	tons/train	tons/train
B-Bare Table Intrmdl	B	65.49	66.85	0.39	2.11	2.00	2.00	454.00	454.00	2456.63	2586.85
Q-Guaranteed Intrmdl	Q	67.77	65.65	3.22	3.75	3.32	2.38	754.64	541.38	5850.98	5246.88
S-Stack Train	S	86.20	86.20	5.98	7.41	5.60	3.49	1271.07	792.43	9854.98	7679.92
Z	Z	65.08	65.23	6.48	5.15	3.86	3.17	875.71	720.03	5473.26	4605.37
NIM-Non-Intrmdl	NIM	56.95	58.84	3.49	4.12	3.32	3.37	753.03	764.03	5838.46	7404.69

2048 No Project 2048

Train Type		Train-Trip Length (Eastbound)	Train-Trip Length (Westbound)	Daily Trains (Eastbound)	Daily Trains (Westbound)	Locomotives (Eastbound)	Locomotives (Westbound)	Locomotive Weight (Eastbound)	Locomotive Weight (Westbound)	Freight Weight (Eastbound)	Freight Weight (Westbound)
Units		miles/train-trip	miles/train-trip	train-trips/day	train-trips/day	loco/train	loco/train	tons/train	tons/train	tons/train	tons/train
B-Bare Table Intrmdl	B	65.49	66.85	0.39	2.11	2.00	2.00	454.00	454.00	2456.63	2586.85
Q-Guaranteed Intrmdl	Q	67.77	65.65	4.51	5.25	3.32	2.38	754.64	541.38	5850.98	5246.88
S-Stack Train	S	86.20	86.20	6.92	8.58	5.60	3.49	1271.07	792.43	9854.98	7679.92
Z	Z	65.08	65.23	9.38	7.46	3.86	3.17	875.71	720.03	5473.26	4605.37
NIM-Non-Intrmdl	NIM	56.95	58.84	3.49	4.12	3.32	3.37	753.03	764.03	5838.46	7404.69

Project - sbd_suc Base Year 2023

Train Type		Train-Trip Length (Eastbound)	Train-Trip Length (Westbound)	Daily Trains (Eastbound)	Daily Trains (Westbound)	Locomotives (Eastbound)	Locomotives (Westbound)	Locomotive Weight (Eastbound)	Locomotive Weight (Westbound)	Freight Weight (Eastbound)	Freight Weight (Westbound)
Units		miles/train-trip	miles/train-trip	train-trips/day	train-trips/day	loco/train	loco/train	tons/train	tons/train	tons/train	tons/train
B-Bare Table Intrmdl	B	25.20	25.20	0.71	2.86	2.00	2.00	454.00	454.00	2344.22	2684.37
Q-Guaranteed Intrmdl	Q	25.20	25.20	3.23	3.97	3.35	2.47	759.41	561.52	5887.94	5442.03
S-Stack Train	S	25.20	25.20	3.64	4.54	5.56	3.62	1262.58	821.83	9789.19	7964.85
Z	Z	25.20	25.20	8.76	6.95	3.94	3.45	894.77	782.51	5592.40	5005.04
NIM-Non-Intrmdl	NIM	25.20	25.20	5.18	5.79	2.95	3.40	670.10	772.67	5195.49	7488.44

2028 No Project 2028

Train Type		Train-Trip Length (Eastbound)	Train-Trip Length (Westbound)	Daily Trains (Eastbound)	Daily Trains (Westbound)	Locomotives (Eastbound)	Locomotives (Westbound)	Locomotive Weight (Eastbound)	Locomotive Weight (Westbound)	Freight Weight (Eastbound)	Freight Weight (Westbound)
Units		miles/train-trip	miles/train-trip	train-trips/day	train-trips/day	loco/train	loco/train	tons/train	tons/train	tons/train	tons/train
B-Bare Table Intrmdl	B	25.20	25.20	0.71	2.86	2.00	2.00	454.00	454.00	2344.22	2684.37
Q-Guaranteed Intrmdl	Q	25.20	25.20	3.38	4.16	3.35	2.47	759.41	561.52	5887.94	5442.03
S-Stack Train	S	25.20	25.20	5.27	6.56	5.56	3.62	1262.58	821.83	9789.19	7964.85
Z	Z	25.20	25.20	9.92	7.86	3.94	3.45	894.77	782.51	5592.40	5005.04
NIM-Non-Intrmdl	NIM	25.20	25.20	5.18	5.79	2.95	3.40	670.10	772.67	5195.49	7488.44

2033 No Project 2033

Train Type		Train-Trip Length (Eastbound)	Train-Trip Length (Westbound)	Daily Trains (Eastbound)	Daily Trains (Westbound)	Locomotives (Eastbound)	Locomotives (Westbound)	Locomotive Weight (Eastbound)	Locomotive Weight (Westbound)	Freight Weight (Eastbound)	Freight Weight (Westbound)
Units		miles/train-trip	miles/train-trip	train-trips/day	train-trips/day	loco/train	loco/train	tons/train	tons/train	tons/train	tons/train
B-Bare Table Intrmdl	B	25.20	25.20	0.71	2.86	2.00	2.00	454.00	454.00	2344.22	2684.37
Q-Guaranteed Intrmdl	Q	25.20	25.20	3.79	4.65	3.35	2.47	759.41	561.52	5887.94	5442.03
S-Stack Train	S	25.20	25.20	5.93	7.38	5.56	3.62	1262.58	821.83	9789.19	7964.85
Z	Z	25.20	25.20	11.22	8.90	3.94	3.45	894.77	782.51	5592.40	5005.04
NIM-Non-Intrmdl	NIM	25.20	25.20	5.18	5.79	2.95	3.40	670.10	772.67	5195.49	7488.44

2048 No Project 2048

Train Type		Train-Trip Length (Eastbound)	Train-Trip Length (Westbound)	Daily Trains (Eastbound)	Daily Trains (Westbound)	Locomotives (Eastbound)	Locomotives (Westbound)	Locomotive Weight (Eastbound)	Locomotive Weight (Westbound)	Freight Weight (Eastbound)	Freight Weight (Westbound)
Units		miles/train-trip	miles/train-trip	train-trips/day	train-trips/day	loco/train	loco/train	tons/train	tons/train	tons/train	tons/train
B-Bare Table Intrmdl	B	25.20	25.20	0.71	2.86	2.00	2.00	454.00	454.00	2344.22	2684.37
Q-Guaranteed Intrmdl	Q	25.20	25.20	5.33	6.55	3.35	2.47	759.41	561.52	5887.94	5442.03
S-Stack Train	S	25.20	25.20	6.86	8.54	5.56	3.62	1262.58	821.83	9789.19	7964.85
Z	Z	25.20	25.20	16.25	12.89	3.94	3.45	894.77	782.51	5592.40	5005.04
NIM-Non-Intrmdl	NIM	25.20	25.20	5.18	5.79	2.95	3.40	670.10	772.67	5195.49	7488.44

Project - suc_bar Base Year 2023

Train Type		Train-Trip Length (Eastbound)	Train-Trip Length (Westbound)	Daily Trains (Eastbound)	Daily Trains (Westbound)	Locomotives (Eastbound)	Locomotives (Westbound)	Locomotive Weight (Eastbound)	Locomotive Weight (Westbound)	Freight Weight (Eastbound)	Freight Weight (Westbound)
Units		miles/train-trip	miles/train-trip	train-trips/day	train-trips/day	loco/train	loco/train	tons/train	tons/train	tons/train	tons/train
B-Bare Table Intrmdl	B	56.10	56.10	0.70	2.85	2.00	2.00	454.00	454.00	2307.42	2681.37
Q-Guaranteed Intrmdl	Q	56.10	56.10	3.23	3.97	3.35	2.48	759.40	562.39	5887.87	5450.50
S-Stack Train	S	56.10	56.10	3.64	4.53	5.56	3.62	1263.07	821.52	9792.95	7961.87
Z	Z	56.10	56.10	8.76	6.95	3.94	3.45	894.78	782.87	5592.45	5007.35
NIM-Non-Intrmdl	NIM	56.10	56.10	5.02	5.64	2.93	3.39	665.23	768.58	5157.71	7448.78

2028 No Project 2028

Train Type		Train-Trip Length (Eastbound)	Train-Trip Length (Westbound)	Daily Trains (Eastbound)	Daily Trains (Westbound)	Locomotives (Eastbound)	Locomotives (Westbound)	Locomotive Weight (Eastbound)	Locomotive Weight (Westbound)	Freight Weight (Eastbound)	Freight Weight (Westbound)
Units		miles/train-trip	miles/train-trip	train-trips/day	train-trips/day	loco/train	loco/train	tons/train	tons/train	tons/train	tons/train
B-Bare Table Intrmdl	B	56.10	56.10	0.70	2.85	2.00	2.00	454.00	454.00	2307.42	2681.37
Q-Guaranteed Intrmdl	Q	56.10	56.10	3.38	4.16	3.35	2.48	759.40	562.39	5887.87	5450.50
S-Stack Train	S	56.10	56.10	5.27	6.56	5.56	3.62	1263.07	821.52	9792.95	7961.87
Z	Z	56.10	56.10	9.92	7.86	3.94	3.45	894.78	782.87	5592.45	5007.35
NIM-Non-Intrmdl	NIM	56.10	56.10	5.02	5.64	2.93	3.39	665.23	768.58	5157.71	7448.78

2033 No Project 2033

Train Type		Train-Trip Length (Eastbound)	Train-Trip Length (Westbound)	Daily Trains (Eastbound)	Daily Trains (Westbound)	Locomotives (Eastbound)	Locomotives (Westbound)	Locomotive Weight (Eastbound)	Locomotive Weight (Westbound)	Freight Weight (Eastbound)	Freight Weight (Westbound)
Units		miles/train-trip	miles/train-trip	train-trips/day	train-trips/day	loco/train	loco/train	tons/train	tons/train	tons/train	tons/train
B-Bare Table Intrmdl	B	56.10	56.10	0.70	2.85	2.00	2.00	454.00	454.00	2307.42	2681.37
Q-Guaranteed Intrmdl	Q	56.10	56.10	3.79	4.66	3.35	2.48	759.40	562.39	5887.87	5450.50
S-Stack Train	S	56.10	56.10	5.93	7.38	5.56	3.62	1263.07	821.52	9792.95	7961.87
Z	Z	56.10	56.10	11.22	8.90	3.94	3.45	894.78	782.87	5592.45	5007.35
NIM-Non-Intrmdl	NIM	56.10	56.10	5.02	5.64	2.93	3.39	665.23	768.58	5157.71	7448.78

2048 No Project 2048

Train Type		Train-Trip Length (Eastbound)	Train-Trip Length (Westbound)	Daily Trains (Eastbound)	Daily Trains (Westbound)	Locomotives (Eastbound)	Locomotives (Westbound)	Locomotive Weight (Eastbound)	Locomotive Weight (Westbound)	Freight Weight (Eastbound)	Freight Weight (Westbound)
Units		miles/train-trip	miles/train-trip	train-trips/day	train-trips/day	loco/train	loco/train	tons/train	tons/train	tons/train	tons/train
B-Bare Table Intrmdl	B	56.10	56.10	0.70	2.85	2.00	2.00	454.00	454.00	2307.42	2681.37
Q-Guaranteed Intrmdl	Q	56.10	56.10	5.33	6.56	3.35	2.48	759.40	562.39	5887.87	5450.50
S-Stack Train	S	56.10	56.10	6.86	8.54	5.56	3.62	1263.07	821.52	9792.95	7961.87
Z	Z	56.10	56.10	16.25	12.89	3.94	3.45	894.78	782.87	5592.45	5007.35
NIM-Non-Intrmdl	NIM	56.10	56.10	5.02	5.64	2.93	3.39	665.23	768.58	5157.71	7448.78

Project - bar_nee Base Year 2023

Train Type		Train-Trip Length (Eastbound)	Train-Trip Length (Westbound)	Daily Trains (Eastbound)	Daily Trains (Westbound)	Locomotives (Eastbound)	Locomotives (Westbound)	Locomotive Weight (Eastbound)	Locomotive Weight (Westbound)	Freight Weight (Eastbound)	Freight Weight (Westbound)
Units		miles/train-trip	miles/train-trip	train-trips/day	train-trips/day	loco/train	loco/train	tons/train	tons/train	tons/train	tons/train
B-Bare Table Intrmdl	B	167.40	167.40	0.55	1.88	2.00	2.00	454.00	454.00	2405.38	2719.81
Q-Guaranteed Intrmdl	Q	167.40	167.40	5.05	5.22	2.68	2.66	609.18	603.96	5903.96	5853.32
S-Stack Train	S	167.40	167.40	3.72	4.57	4.43	3.65	1006.08	827.47	9750.60	8019.52
Z	Z	167.40	167.40	10.84	9.59	3.78	3.39	857.67	770.07	5357.14	4811.96
NIM-Non-Intrmdl	NIM	167.40	167.40	6.81	7.75	2.80	4.67	636.50	1060.69	6168.76	10279.78

2028 No Project 2028

Train Type		Train-Trip Length (Eastbound)	Train-Trip Length (Westbound)	Daily Trains (Eastbound)	Daily Trains (Westbound)	Locomotives (Eastbound)	Locomotives (Westbound)	Locomotive Weight (Eastbound)	Locomotive Weight (Westbound)	Freight Weight (Eastbound)	Freight Weight (Westbound)
Units		miles/train-trip	miles/train-trip	train-trips/day	train-trips/day	loco/train	loco/train	tons/train	tons/train	tons/train	tons/train
B-Bare Table Intrmdl	B	167.40	167.40	0.55	1.88	2.00	2.00	454.00	454.00	2405.38	2719.81
Q-Guaranteed Intrmdl	Q	167.40	167.40	7.72	7.98	2.68	2.66	609.18	603.96	5903.96	5853.32
S-Stack Train	S	167.40	167.40	3.91	4.80	4.43	3.65	1006.08	827.47	9750.60	8019.52
Z	Z	167.40	167.40	12.27	10.86	3.78	3.39	857.67	770.07	5357.14	4811.96
NIM-Non-Intrmdl	NIM	167.40	167.40	6.81	7.75	2.80	4.67	636.50	1060.69	6168.76	10279.78

2033 No Project 2033

Train Type		Train-Trip Length (Eastbound)	Train-Trip Length (Westbound)	Daily Trains (Eastbound)	Daily Trains (Westbound)	Locomotives (Eastbound)	Locomotives (Westbound)	Locomotive Weight (Eastbound)	Locomotive Weight (Westbound)	Freight Weight (Eastbound)	Freight Weight (Westbound)
Units		miles/train-trip	miles/train-trip	train-trips/day	train-trips/day	loco/train	loco/train	tons/train	tons/train	tons/train	tons/train
B-Bare Table Intrmdl	B	167.40	167.40	0.55	1.88	2.00	2.00	454.00	454.00	2405.38	2719.81
Q-Guaranteed Intrmdl	Q	167.40	167.40	9.08	9.39	2.68	2.66	609.18	603.96	5903.96	5853.32
S-Stack Train	S	167.40	167.40	4.11	5.04	4.43	3.65	1006.08	827.47	9750.60	8019.52
Z	Z	167.40	167.40	13.88	12.28	3.78	3.39	857.67	770.07	5357.14	4811.96
NIM-Non-Intrmdl	NIM	167.40	167.40	6.81	7.75	2.80	4.67	636.50	1060.69	6168.76	10279.78

2048 No Project 2048

Train Type		Train-Trip Length (Eastbound)	Train-Trip Length (Westbound)	Daily Trains (Eastbound)	Daily Trains (Westbound)	Locomotives (Eastbound)	Locomotives (Westbound)	Locomotive Weight (Eastbound)	Locomotive Weight (Westbound)	Freight Weight (Eastbound)	Freight Weight (Westbound)
Units		miles/train-trip	miles/train-trip	train-trips/day	train-trips/day	loco/train	loco/train	tons/train	tons/train	tons/train	tons/train
B-Bare Table Intrmdl	B	167.40	167.40	0.55	1.88	2.00	2.00	454.00	454.00	2405.38	2719.81
Q-Guaranteed Intrmdl	Q	167.40	167.40	12.16	12.57	2.68	2.66	609.18	603.96	5903.96	5853.32
S-Stack Train	S	167.40	167.40	4.77	5.86	4.43	3.65	1006.08	827.47	9750.60	8019.52
Z	Z	167.40	167.40	20.10	17.79	3.78	3.39	857.67	770.07	5357.14	4811.96
NIM-Non-Intrmdl	NIM	167.40	167.40	6.81	7.75	2.80	4.67	636.50	1060.69	6168.76	10279.78

No Project

Idling - SCAQMD 2028 2048 2026

Train Type		Idling Time (Non-Directional)	Idling Time (Non-Directional)	Idling Time (Non-Directional)
Units		**hours/day**	**hours/day**	**hours/day**
B-Bare Table Intrmdl	B	0.71	0.94	0.63
Q-Guaranteed Intrmdl	Q	0.67	1.93	0.64
S-Stack Train	S	1.56	2.58	1.50
Z	Z	1.72	2.86	1.62
NIM-Non-Intrmdl	NIM	6.05	6.57	5.78

Provided by BNSF.

Project

Idling - SCAQMD 2028 2048 2026

Train Type		Idling Time (Non-Directional)	Idling Time (Non-Directional)	Idling Time (Non-Directional)
Units		**hours/day**	**hours/day**	**hours/day**
B-Bare Table Intrmdl	B	0.69	0.91	0.63
Q-Guaranteed Intrmdl	Q	0.82	2.20	0.64
S-Stack Train	S	2.52	4.63	1.50
Z	Z	1.78	2.96	1.62
NIM-Non-Intrmdl	NIM	5.91	6.92	5.78

Provided by BNSF.

No Project

Idling - sub_bar 2028 2048 2026

Train Type		Idling Time (Non-Directional)	Idling Time (Non-Directional)	Idling Time (Non-Directional)
Units		hours/day	hours/day	hours/day
B-Bare Table Intrmdl	B	0.14	0.21	0.14
Q-Guaranteed Intrmdl	Q	1.03	2.42	0.99
S-Stack Train	S	0.61	1.61	0.57
Z	Z	0.45	1.19	0.43
NIM-Non-Intrmdl	NIM	3.43	5.08	3.39

Provided by BNSF.

Idling - bar_nee

Train Type		Idling Time (Non-Directional)	Idling Time (Non-Directional)	Idling Time (Non-Directional)
Units		hours/day	hours/day	hours/day
B-Bare Table Intrmdl	B	0.19	0.76	0.18
Q-Guaranteed Intrmdl	Q	1.00	3.53	0.92
S-Stack Train	S	1.29	4.25	1.20
Z	Z	0.83	2.64	0.83
NIM-Non-Intrmdl	NIM	2.63	5.55	2.61

Provided by BNSF.

Project

Idling - sub_bar 2028 2048 2026

Train Type		Idling Time (Non-Directional)	Idling Time (Non-Directional)	Idling Time (Non-Directional)
Units		**hours/day**	**hours/day**	**hours/day**
B-Bare Table Intrmdl	B	0.15	0.23	0.14
Q-Guaranteed Intrmdl	Q	0.45	1.09	0.99
S-Stack Train	S	0.67	1.35	0.57
Z	Z	0.35	0.68	0.43
NIM-Non-Intrmdl	NIM	3.48	4.72	3.39

Provided by BNSF.

Idling - bar_nee

Train Type		Idling Time (Non-Directional)	Idling Time (Non-Directional)	Idling Time (Non-Directional)
Units		**hours/day**	**hours/day**	**hours/day**
B-Bare Table Intrmdl	B	0.52	1.24	0.18
Q-Guaranteed Intrmdl	Q	0.92	2.01	0.92
S-Stack Train	S	1.16	2.06	1.20
Z	Z	0.94	1.98	0.83
NIM-Non-Intrmdl	NIM	2.69	5.02	2.61

Provided by BNSF.

Appendix B
BNSF CAGRs Used in BIG

Appendix C
Fleet Mix and Emission Factors

LINE-HAUL EMISSION FACTORS

Appendix C

	Criteria Pollutants (g/bhp-hr) [1]				Criteria Pollutants (g/gal) [1,2,3,4]						GHG (g/gal) [5]		
Tier	**PM**	**NOx**	**HC**	**CO**	**PM10**	**PM2.5**	**VOC**	**NOx**	**CO**	**SOx**	**CO_2**	**N_2O**	**CH_4**
Uncontrolled	0.32	13.00	0.48	1.28	6.66	6.46	12.08	270.40	26.62	0.094	10,210	0.26	0.80
Tier 0	0.32	8.60	0.48	1.28	6.66	6.46	12.08	178.88	26.62	0.094	10,210	0.26	0.80
Tier 0+	0.20	7.20	0.30	1.28	4.16	4.04	7.55	149.76	26.62	0.094	10,210	0.26	0.80
Tier 1	0.32	6.70	0.47	1.28	6.66	6.46	11.83	139.36	26.62	0.094	10,210	0.26	0.80
Tier 1+	0.20	6.70	0.29	1.28	4.16	4.04	7.30	139.36	26.62	0.094	10,210	0.26	0.80
Tier2	0.18	4.95	0.26	1.28	3.74	3.63	6.54	102.96	26.62	0.094	10,210	0.26	0.80
Tier 2+	0.08	4.95	0.13	1.28	1.66	1.61	3.27	102.96	26.62	0.094	10,210	0.26	0.80
Tier 3	0.08	4.95	0.13	1.28	1.66	1.61	3.27	102.96	26.62	0.094	10,210	0.26	0.80
Tier 4	0.015	1.00	0.04	1.28	0.31	0.30	1.01	20.80	26.62	0.094	10,210	0.26	0.80

Brake Specific Fuel Consumption	
Locomotive Application	**Conversion Factor[1] (bhp-hr/gal)**
Large Line-Haul and Passenger	20.8

Notes:

1. EPA Technical Highlights: Emission Factors for Locomotives, EPA Office of Transportation and Air Quality, EPA-420-F-09-025, April 2009. https://nepis.epa.gov/Exe/ZyPDF.cgi/P100500B.PDF?Dockey=P100500B.PDF

2. $PM_{2.5}$ emissions can be estimated as 0.97 times the PM10. Referenced EPA Technical Highlights: Emission Factors for Locomotives, EPA Office of Transportation and Air Quality, EPA-420-F-09-025, April 2009. https://nepis.epa.gov/Exe/ZyPDF.cgi/P100500B.PDF?Dockey=P100500B.PDF

3. VOC (volatile organic compounds) were assumed equivalent to ROG (reactive organic compounds). VOC and ROG emission factor was estimated as 1.21 times the emission factor for HC, per CARB 2016 Line haul Locomotive Model & Update, October 2017. Accessed September 2021 at: https://ww2.arb.ca.gov/our-work/programs/mobile-source-emissions-inventory/road-documentation/msei-documentation-road

4. SOx emission factor calculated:

$$SO_x = Fuel\ Density \times Conversion\ factor \times 64\ gSO_2/32\ gS \times S\ content\ of\ fuel$$

where

SO_2 is in g/gal

Density is the fuel density of diesel which is 3200 g/gal (Source: U.S. EPA Emission Factors for Locomotives, U.S. EPA-420-F-09-025, April 2009)

453.6 is the conversion factor from pounds to grams

The conversion factor is the fraction of fuel sulfur converted to SO_2 which is 97.8 percent

2 is the grams of SO2 formed from a gram of sulfur

Sulfur content of fuel for locomotives are fueled with low sulfur diesel which has a sulfur content of 15 parts per million (ppm). S content of fuel = 15 g S / 1,000,000 g fuel.

5. GHG emission factors obtained from The Climate Registry. 2021 Emission Factors, Tables 2.1 and 2.7.

ALTERNATIVE FUEL EMISSION FACTOR ADJUSTMENTS

Appendix C

Commodity Blend Speciations	Emission Factors (g/bhp-hr)						Percent Reduction from Renewable Diesel (%)						Percent Reduction including Carbon Intensity (%)					
Commodity	**PM**	**HC**	**NOx**	**CO**	**CO2**	**Fuel (lb/hp-hr)**	**PM**	**HC**	**NOx**	**CO**	**CO2**	**Fuel**	**PM**	**HC**	**NOx**	**CO**	**CO2**	**Fuel**
EPA Cert Diesel	0.041	0.096	7.60	0.35	597.7	0.363	--	--	--	--	--	--	--	--	--	--	--	--
B5 - Hybrid	0.041	0.096	7.60	0.35	579.2	0.363	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	3.1%	0.0%
R20 -Hybrid	0.039	0.092	7.42	0.34	523.6	0.364	6.1%	4.3%	2.4%	3.1%	1.3%	-0.3%	6.1%	4.3%	2.4%	3.1%	12.4%	-0.3%
R30 - Hybrid	0.037	0.090	7.32	0.33	486.5	0.365	9.1%	6.5%	3.6%	4.7%	2.0%	-0.5%	9.1%	6.5%	3.6%	4.7%	18.6%	-0.5%
R100 - Hybrid	0.029	0.075	6.68	0.30	227.1	0.369	30.4%	21.6%	12.1%	15.6%	6.7%	-1.7%	30.4%	21.6%	12.1%	15.6%	62.0%	-1.7%

Source:

EPA Cert diesel based on Renewable Diesel Fuel Effectson on Exhaust Emissions from a Tier 3 GE ES44C4 Locomotive (CARB, 2021)

Biodiesel 5% not statistacally significantly different from conventional diesel. (Locomotive Emissions Measurements for Various Blends of Biodiesel Fuel, US DOT 2014).

Renewable fuel emission factors and fuel use scaled from Renewable Diesel Fuel Effectson on Exhaust Emissions fomr a Tier 3 GE ES44C4 Locomotive (CARB, 2021)

Carbon Intensity Reduction of 62% based on RD CI of 38.05 and conventional diesel CI of 100.45 (CARB, 2024)

BNSF Fleet Mix for Southern California **Appendix C**

No Project and Project

Year	Fleet Mix Engine Tier Count										
	Non Tier	0	0+	1	1+	2	2+	3	4	Dedicated Fleet T4	Count of Locomotives
2023[1]	0	39	37	119	1215	161	1428	1198	303	0	4,500
2028[2]	0	0	0	0	1137	0	1589	1198	369	25	4,318
2033[2]	0	0	0	0	943	0	1589	1198	534	32	4,296
2048[2]	0	0	0	0	360	0	1589	1198	1029	38	4,214

Notes:

1. Data is sourced from the most recently published CARB MOU (2023).

2. All T0/T1 retire by 2028 and all T2 are converted to T2+. Based on a historical replacement rate of 33 T4 per year starting in 2026. T1 replaced at a rate of 100 T1 for every 85 T4.

Appendix C

Diesel CI	100.45	RD CI	38.05	62%	Reduction in GHG

Last Updated 8/22/2024 **Total Number of Applications (2.0) or Pathways (3.0)** 2351

App/Pathway #	Class	Calculator Version	Applicant & Pathway Description	Facility Location	Feedstock	Fuel Type	Legacy FPC	Legacy CI	Current Certified FPC	Current Certified CI	CI fixed	Certification Date	Postings and Comments	Fuel Category	Company (ID)	Facility (ID)	Pathway Description	AFPR Recertification Status	Retired Pathway
B004502	Tier 2	3.0	Fuel Producer: AltAir Paramount, LLC (6281) ; Facility Name: AltAir Paramount, LLC (83180); Renewable Diesel produced from Rendered animal fat from JBS Brooks, Alberta, Canada; Natural Gas, Grid Electricity and Hydrogen; Renewable Diesel produced in California (Provisional)	California	Tallow (animal and poultry fat) (002)	Renewable Diesel (RND)	None	None	RND002B00450200	25.08	25.08	12/27/2019	Application Package	Renewable Diesel	AltAir Paramount, LLC (6281)	AltAir Paramount, LLC (83180)	Renewable Diesel produced from Rendered animal fat from JBS Brooks, Alberta, Canada; Natural Gas, Grid Electricity and Hydrogen; Renewable Diesel produced in California (Provisional)	None	Retired
B004302	Tier 2	3.0	Fuel Producer: AltAir Paramount, LLC (6281); Facility Name: AltAir Paramount, LLC (83180); Renewable Diesel produced from North America Rendered Animal Fat; Natural Gas, Grid Electricity and Hydrogen; Renewable Diesel produced in California (Provisional)	California	Tallow (animal and poultry fat) (002)	Renewable Diesel (RND)	RDT209	38.75	RND002B00430200	37.13	37.13	12/27/2019	Application Package	Renewable Diesel	AltAir Paramount, LLC (6281)	AltAir Paramount, LLC (83180)	Renewable Diesel produced from North America Rendered Animal Fat; Natural Gas, Grid Electricity and Hydrogen; Renewable Diesel produced in California (Provisional)	None	Retired
B004402	Tier 2	3.0	Fuel Producer: AltAir Paramount, LLC (6281); Facility Name: AltAir Paramount, LLC (83180); Renewable Diesel produced from Australia Rendered Animal Fat; Natural Gas, Grid Electricity and Hydrogen; Renewable Diesel produced in California (Provisional)	California	Tallow (animal and poultry fat) (002)	Renewable Diesel (RND)	None	None	RND002B00440200	42.91	42.91	12/27/2019	Application Package	Renewable Diesel	AltAir Paramount, LLC (6281)	AltAir Paramount, LLC (83180)	Renewable Diesel produced from Australia Rendered Animal Fat; Natural Gas, Grid Electricity and Hydrogen; Renewable Diesel produced in California (Provisional)	None	Retired
T2N-1290	Tier 2	2.0	Fuel Producer: AltAir Paramount, LLC (6281) ; Facility Name: AltAir Paramount, LLC (83180); Tier 2 Method 2B Application: Renewable Diesel produced from North American Tallow, in Paramount, California (Provisional)	California	Tallow & Animal Fat	Renewable Diesel	None	None	RDT209	38.75	38.75	1/16/2019	Application Package	Renewable Diesel	AltAir Paramount, LLC (6281)	AltAir Paramount, LLC (83180)	Tier 2 Method 2B ApplicationRenewable Diesel produced from North American Tallow, in Paramount, California (Provisional)	None	Retired
T2N-1290	Tier 2	2.0	Fuel Producer: AltAir Paramount, LLC (6281) ; Facility Name: AltAir Paramount, LLC (83180); Tier 2 Method 2B Application: Renewable Diesel produced from North American Tallow, in Paramount, California	California	Tallow & Animal Fat	Renewable Diesel	RDT209	38.75	RDT209R	39.91	39.91	4/2/2020	Application Package	Renewable Diesel	AltAir Paramount, LLC (6281)	AltAir Paramount, LLC (83180)	Tier 2 Method 2B Application: Renewable Diesel produced from North American Tallow, in Paramount, California	None	Retired
B010002	Tier 2	3.0	Fuel Producer: AltAir Paramount, LLC (6281); Facility Name: AltAir Paramount, LLC (83180); Rendered Animal Fat Oil from Greely, Colorado transported by rail to AltAir Paramount plant in Paramount, California for Renewable Diesel production (Provisional)	California	Tallow (animal and poultry fat) (002)	Renewable Diesel (RND)	None	None	RND002B01000200	23.93	23.93	6/29/2020	Application Package	Renewable Diesel	AltAir Paramount, LLC (6281)	AltAir Paramount, LLC (83180)	Rendered Animal Fat Oil from Greely, Colorado transported by rail to AltAir Paramount plant in Paramount, California for Renewable Diesel production (Provisional)	None	Retired
B007901	Tier 2	3.0	Fuel Producer: Kern Oil & Refining Co. (5038); Facility Name: Kern Oil & Refining Co. (80105); Rendered animal fat sourced from California and transported by truck; Renewable diesel produced from co-processing animal fat with fossil feedstock in a kerosene hydrotreater in Bakersfield, California and transported by truck for distribution (Provisional)	California	Tallow (animal and poultry fat) (002)	Renewable Diesel (RND)	None	None	RND002B00790100	30.48	30.48	9/30/2020	Application Package	Renewable Diesel	Kern Oil & Refining Co. (5038)	Kern Oil & Refining Co. (80105)	Rendered animal fat sourced from California and transported by truck; Renewable diesel produced from co-processing animal fat with fossil feedstock in a kerosene hydrotreater in Bakersfield, California and transported by truck for distribution (Provisional)	None	Retired
B007902	Tier 2	3.0	Fuel Producer: Kern Oil & Refining Co. (5038); Facility Name: Kern Oil & Refining Co. (80105); Renewable diesel produced from co-processing animal fat with fossil feedstock in a kerosene hydrotreater in Bakersfield, California and transported by truck for distribution (Provisional)	California	Tallow (animal and poultry fat) (002)	Renewable Diesel (RND)	None	None	RND002B00790200	41.85	41.85	9/30/2020	Application Package	Renewable Diesel	Kern Oil & Refining Co. (5038)	Kern Oil & Refining Co. (80105)	Renewable diesel produced from co-processing animal fat with fossil feedstock in a kerosene hydrotreater in Bakersfield, California and transported by truck for distribution (Provisional)	None	Retired
B011902	Tier 2	3.0	Fuel Producer: AltAir Paramount, LLC (6281); Facility Name: AltAir Paramount, LLC (83180); Renewable diesel produced from animal fat; natural gas, grid electricity and hydrogen; renewable diesel produced in California (Provisional)	California	Tallow (animal and poultry fat) (002)	Renewable Diesel (RND)	None	None	RND002B01190200	19.51	19.51	12/18/2020	Application Package	Renewable Diesel	AltAir Paramount, LLC (6281)	AltAir Paramount, LLC (83180)	Renewable diesel produced from animal fat; natural gas, grid electricity and hydrogen; renewable diesel produced in California (Provisional)	None	Retired
B016802	Tier 2	3.0	Fuel Producer: AltAir Paramount, LLC (6281); Facility Name: AltAir Paramount, LLC (83180); Renewable diesel produced from animal fat in Dinmore, Australia; natural gas, grid electricity and hydrogen; renewable diesel produced in California (Provisional)	California	Tallow (animal and poultry fat) (002)	Renewable Diesel (RND)	None	None	RND002B01680200	33.42	33.42	6/29/2021	Application Package	Renewable Diesel	AltAir Paramount, LLC (6281)	AltAir Paramount, LLC (83180)	Renewable diesel produced from animal fat in Dinmore, Australia; natural gas, grid electricity and hydrogen; renewable diesel produced in California (Provisional)	None	Retired
B024101	Tier 2	3.0	Fuel Producer: PHILLIPS 66 COMPANY (4528); Facility Name: Phillips 66 Rodeo (82191); Renewable diesel produced from Soybean Oil transported by rail to California; natural gas, steam, off gases, grid electricity and hydrogen; distributed in California via barge/ship/pipeline (Provisional)	California	Soybean Oil (005)	Renewable Diesel (RND)	None	None	RND005B02410100	54.68	54.68	12/28/2021	Application Package	Renewable Diesel	PHILLIPS 66 COMPANY (4528)	Phillips 66 Rodeo (82191)	Renewable diesel produced from Soybean Oil transported by rail to California; natural gas, steam, off gases, grid electricity and hydrogen; distributed in California via barge/ship/pipeline (Provisional)	None	Retired
B024103	Tier 2	3.0	Fuel Producer: PHILLIPS 66 COMPANY (4528); Facility Name: Phillips 66 Rodeo (82191); Renewable diesel produced from Canola Oil transported by rail and ocean tanker to California; natural gas, steam, off gases, grid electricity and hydrogen; distributed in California via barge/ship/pipeline (Provisional)	California	Canola Oil (006)	Renewable Diesel (RND)	None	None	RND006B02410300	51.87	51.87	12/28/2021	Application Package	Renewable Diesel	PHILLIPS 66 COMPANY (4528)	Phillips 66 Rodeo (82191)	Renewable diesel produced from Canola Oil transported by rail and ocean tanker to California; natural gas, steam, off gases, grid electricity and hydrogen; distributed in California via barge/ship/pipeline (Provisional)	None	Retired
B026802	Tier 2	3.0	Fuel Producer: AltAir Paramount, LLC (6281); Facility Name: AltAir Paramount, LLC (83180); Site-Specific Rendered Animal Fat Sourced from JBS Brooks Alberta Canada transported by rail to Renewable Diesel plant in Paramount, California; Natural Gas, Grid Electricity, and Hydrogen; Renewable Diesel produced in California (Provisional)	California	low (animal and poultry fat) (0	Renewable Diesel (RND)	RND002B00450200	25.08	RND002B02680200	18.87	18.87	3/28/2022	Application Package	Renewable Diesel	AltAir Paramount, LLC (6281)	AltAir Paramount, LLC (83180)	Site-Specific Rendered Animal Fat Sourced from JBS Brooks Alberta Canada transported by rail to Renewable Diesel plant in Paramount, California; Natural Gas, Grid Electricity, and Hydrogen; Renewable Diesel produced in California (Provisional)	None	Retired
B026811	Tier 2	3.0	Fuel Producer: AltAir Paramount, LLC (6281); Facility Name: AltAir Paramount, LLC (83180); Site-Specific Rendered Animal Fat Sourced from JBS Dinmore Australia transported by truck and ocean tanker to Renewable Diesel plant in Paramount, California; Natural Gas, Grid Electricity, and Hydrogen; Renewable Diesel produced in California (Provisional)	California	low (animal and poultry fat) (0	Renewable Diesel (RND)	RND002B01680200	33.42	RND002B02681100	29.26	29.26	3/28/2022	Application Package	Renewable Diesel	AltAir Paramount, LLC (6281)	AltAir Paramount, LLC (83180)	Site-Specific Rendered Animal Fat Sourced from JBS Dinmore Australia transported by truck and ocean tanker to Renewable Diesel plant in Paramount, California; Natural Gas, Grid Electricity, and Hydrogen; Renewable Diesel produced in California (Provisional)	None	Retired
B024102	Tier 2	3.0	Fuel Producer: PHILLIPS 66 COMPANY (4528); Facility Name: Phillips 66 Rodeo (82191); Renewable diesel produced from Soybean Oil transported by rail and barge to California; natural gas, steam, off gases, grid electricity and hydrogen; distributed in California via barge/ship/pipeline (Provisional)	California	Soybean Oil (005)	Renewable Diesel (RND)	None	None	RND005B02410200	58.16	58.16	12/28/2021	Application Package	Renewable Diesel	PHILLIPS 66 COMPANY (4528)	Phillips 66 Rodeo (82191)	Renewable diesel produced from Soybean Oil transported by rail and barge to California; natural gas, steam, off gases, grid electricity and hydrogen; distributed in California via barge/ship/pipeline (Provisional)	None	Retired
B026805	Tier 2	3.0	Fuel Producer: AltAir Paramount, LLC (6281); Facility Name: AltAir Paramount, LLC (83180); Site-Specific Rendered Animal Fat Sourced from JBS Greely Colorado transported by rail to Renewable Diesel plant in Paramount, California; Natural Gas, Grid Electricity, and Hydrogen; Renewable Diesel produced in California (Provisional)	California	low (animal and poultry fat) (0	Renewable Diesel (RND)	RND002B01000200	23.93	RND002B02680500	19.54	19.54	3/28/2022	Application Package	Renewable Diesel	AltAir Paramount, LLC (6281)	AltAir Paramount, LLC (83180)	Site-Specific Rendered Animal Fat Sourced from JBS Greely Colorado transported by rail to Renewable Diesel plant in Paramount, California; Natural Gas, Grid Electricity, and Hydrogen; Renewable Diesel produced in California (Provisional)	None	Retired
B026808	Tier 2	3.0	Fuel Producer: AltAir Paramount, LLC (6281); Facility Name: AltAir Paramount, LLC (83180); Site-Specific Rendered Animal Fat Sourced from JBS Hyrum Utah transported by Truck and rail to Renewable Diesel plant in Paramount, California; Natural Gas, Grid Electricity, and Hydrogen; Renewable Diesel produced in California (Provisional)	California	low (animal and poultry fat) (0	Renewable Diesel (RND)	RND002B01190200	19.51	RND002B02680800	15.64	15.64	3/28/2022	Application Package	Renewable Diesel	AltAir Paramount, LLC (6281)	AltAir Paramount, LLC (83180)	Site-Specific Rendered Animal Fat Sourced from JBS Hyrum Utah transported by Truck and rail to Renewable Diesel plant in Paramount, California; Natural Gas, Grid Electricity, and Hydrogen; Renewable Diesel produced in California (Provisional)	None	Retired
B026814	Tier 2	3.0	Fuel Producer: AltAir Paramount, LLC (6281); Facility Name: AltAir Paramount, LLC (83180); North American Sourced Rendered Animal Fat transported by rail to Renewable Diesel plant in Paramount, California; Natural Gas, Grid Electricity, and Hydrogen; Renewable Diesel produced in California (Provisional)	California	low (animal and poultry fat) (0	Renewable Diesel (RND)	RND002B00430200	37.13	RND002B02681400	32.93	32.93	3/28/2022	Application Package	Renewable Diesel	AltAir Paramount, LLC (6281)	AltAir Paramount, LLC (83180)	North American Sourced Rendered Animal Fat transported by rail to Renewable Diesel plant in Paramount, California; Natural Gas, Grid Electricity, and Hydrogen; Renewable Diesel produced in California (Provisional)	None	Retired
B026817	Tier 2	3.0	Fuel Producer: AltAir Paramount, LLC (6281); Facility Name: AltAir Paramount, LLC (83180); Site-Specific Rendered Australian Sourced Animal Fat transported by truck and ocean tanker to Renewable Diesel plant in Paramount, California; Natural Gas, Grid Electricity, and Hydrogen; Renewable Diesel produced in California (Provisional)	California	low (animal and poultry fat) (0	Renewable Diesel (RND)	RND002B00440200	42.91	RND002B02681700	38.43	38.43	3/28/2022	Application Package	Renewable Diesel	AltAir Paramount, LLC (6281)	AltAir Paramount, LLC (83180)	Site-Specific Rendered Australian Sourced Animal Fat transported by truck and ocean tanker to Renewable Diesel plant in Paramount, California; Natural Gas, Grid Electricity, and Hydrogen; Renewable Diesel produced in California (Provisional)	None	Retired
B032301	Tier 2	3.0	Fuel Producer: PHILLIPS 66 COMPANY (4528); Facility Name: Phillips 66 Rodeo (82191); Renewable diesel produced from distiller's corn oil transported by rail to California; natural gas, steam, off gases, grid electricity and hydrogen; distributed in California via barge/ship/pipeline (Provisional)	California	Distillers' Corn Oil (003)	Renewable Diesel (RND)	None	None	RND003B03230100	25.46	25.46	9/20/2022	Application Package	Renewable Diesel	PHILLIPS 66 COMPANY (4528)	Phillips 66 Rodeo (82191)	Renewable diesel produced from distiller's corn oil transported by rail to California; natural gas, steam, off gases, grid electricity and hydrogen; distributed in California via barge/ship/pipeline (Provisional)	None	
B024103	Tier 2	3.0	Fuel Producer: PHILLIPS 66 COMPANY (4528); Facility Name: Phillips 66 Rodeo (82191); Renewable diesel produced from Canola Oil transported by rail and ocean tanker to California; natural gas, steam, off gases, grid electricity and hydrogen; distributed in California via barge/ship/pipeline	California	Canola Oil (006)	Renewable Diesel (RND)	None	None	RND006B02410301	52.90	52.90	12/28/2021	Application Package	Renewable Diesel	PHILLIPS 66 COMPANY (4528)	Phillips 66 Rodeo (82191)	Renewable diesel produced from Canola Oil transported by rail and ocean tanker to California; natural gas, steam, off gases, grid electricity and hydrogen; distributed in California via barge/ship/pipeline	2021 AFPR Recert Complete	
B024101	Tier 2	3.0	Fuel Producer: PHILLIPS 66 COMPANY (4528); Facility Name: Phillips 66 Rodeo (82191); Renewable diesel produced from Soybean Oil transported by rail to California; natural gas, steam, off gases, grid electricity and hydrogen; distributed in California via barge/ship/pipeline	California	Soybean Oil (005)	Renewable Diesel (RND)	RND005B02410100	54.68	RND005B02410101	55.39	55.39	12/28/2021	Application Package	Renewable Diesel	PHILLIPS 66 COMPANY (4528)	Phillips 66 Rodeo (82191)	Renewable diesel produced from Soybean Oil transported by rail to California; natural gas, steam, off gases, grid electricity and hydrogen; distributed in California via barge/ship/pipeline	2021 AFPR Recert Complete	
B007901	Tier 2	3.0	Fuel Producer: Kern Oil & Refining Co. (5038); Facility Name: Kern Oil & Refining Co. (80105); Rendered animal fat sourced from California and transported by truck; Renewable diesel produced from co-processing animal fat with fossil feedstock in a kerosene hydrotreater in Bakersfield, California and transported by truck for distribution	California	low (animal and poultry fat) (0	Renewable Diesel (RND)	RND002B00790100	30.48	RND002B00790103	34.32	34.32	9/30/2020	Application Package	Renewable Diesel	Kern Oil & Refining Co. (5038)	Kern Oil & Refining Co. (80105)	Rendered animal fat sourced from California and transported by truck; Renewable diesel produced from co-processing animal fat with fossil feedstock in a kerosene hydrotreater in Bakersfield, California and transported by truck for distribution	2021 AFPR Recert Complete	
B007902	Tier 2	3.0	Fuel Producer: Kern Oil & Refining Co. (5038); Facility Name: Kern Oil & Refining Co. (80105); Renewable diesel produced from co-processing animal fat with fossil feedstock in a kerosene hydrotreater in Bakersfield, California and transported by truck for distribution	California	low (animal and poultry fat) (0	Renewable Diesel (RND)	RND002B00790200	41.85	RND002B00790203	43.24	43.24	9/30/2020	Application Package	Renewable Diesel	Kern Oil & Refining Co. (5038)	Kern Oil & Refining Co. (80105)	Renewable diesel produced from co-processing animal fat with fossil feedstock in a kerosene hydrotreater in Bakersfield, California and transported by truck for distribution	2021 AFPR Recert Complete	
B026802	Tier 2	3.0	Fuel Producer: AltAir Paramount, LLC (6281); Facility Name: AltAir Paramount, LLC (83180); Site-Specific Rendered Animal Fat Sourced from JBS Brooks Alberta Canada transported by rail to Renewable Diesel plant in Paramount, California; Natural Gas, Grid Electricity, and Hydrogen; Renewable Diesel produced in California (Provisional)	California	low (animal and poultry fat) (0	Renewable Diesel (RND)	RND002B02680200	18.87	RND002B02680201	18.93	18.93	3/28/2022	Application Package	Renewable Diesel	AltAir Paramount, LLC (6281)	AltAir Paramount, LLC (83180)	Site-Specific Rendered Animal Fat Sourced from JBS Brooks Alberta Canada transported by rail to Renewable Diesel plant in Paramount, California; Natural Gas, Grid Electricity, and Hydrogen; Renewable Diesel produced in California (Provisional)	2021 AFPR Recert Complete	Retired
B026811	Tier 2	3.0	Fuel Producer: AltAir Paramount, LLC (6281); Facility Name: AltAir Paramount, LLC (83180); Site-Specific Rendered Animal Fat Sourced from JBS Dinmore Australia transported by truck and ocean tanker to Renewable Diesel plant in Paramount, California; Natural Gas, Grid Electricity, and Hydrogen; Renewable Diesel produced in California (Provisional)	California	low (animal and poultry fat) (0	Renewable Diesel (RND)	RND002B02681100	29.26	RND002B02681101	29.78	29.78	3/28/2022	Application Package	Renewable Diesel	AltAir Paramount, LLC (6281)	AltAir Paramount, LLC (83180)	Site-Specific Rendered Animal Fat Sourced from JBS Dinmore Australia transported by truck and ocean tanker to Renewable Diesel plant in Paramount, California; Natural Gas, Grid Electricity, and Hydrogen; Renewable Diesel produced in California (Provisional)	2021 AFPR Recert Complete	Retired
B039401	Tier 2	3.0	Fuel Producer: Chevron Products Company (5086) ; Facility Name: Chevron El Segundo (01013); Soybean oil transported by rail to California; natural gas, steam, grid electricity and hydrogen; renewable diesel produced from co-processing soybean oil with fossil feedstock in a diesel hydrotreater (VGO unit) in El Segundo, California (PROV3.0)	California	Soybean Oil (005)	Renewable Diesel (RND)	None	None	RND005B03940100	51.74	51.74	6/30/2023	Application Package	Renewable Diesel	Chevron Products Company (5086)	Chevron El Segundo (01013)	Soybean oil transported by rail to California; natural gas, steam, grid electricity and hydrogen; renewable diesel produced from co-processing soybean oil with fossil feedstock in a diesel hydrotreater (VGO unit) in El Segundo, California (Provisional)	None	

Appendix C

Diesel CI	100.45	RD CI	38.05	62%	Reduction in GHG

Last Updated 8/22/2024 **Total Number of Applications (2.0) or Pathways (3.0)** 2351

App/Pathway #	Class	Calculator Version	Applicant & Pathway Description	Facility Location	Feedstock	Fuel Type	Legacy FPC	Legacy CI	Current Certified FPC	Current Certified CI	CI fixed	Certification Date	Postings and Comments	Fuel Category	Company (ID)	Facility (ID)	Pathway Description	AFPR Recertification Status	Retired Pathway
B050601	Tier 2	3.0	Fuel Producer: MARTINEZ RENEWABLES LLC (1845); Facility Name: MARTINEZ REFINERY (90001); North American sourced Soybean Oil, pre-treated at various facilities, transported by truck, rail, and barge to Renewable Diesel plant in Martinez, California; Natural Gas and Electricity; fuel produced in California (PROV3.0)	California	Soybean Oil (005)	Renewable Diesel (RND)	None	None	RND005B05060100	62.93	62.93	12/26/2023	Application Package	Renewable Diesel	MARTINEZ RENEWABLES LLC (1845)	MARTINEZ REFINERY (90001)	North American sourced Soybean Oil, pre-treated at various facilities, transported by truck, rail, and barge to Renewable Diesel plant in Martinez, California; Natural Gas and Electricity; fuel produced in California (Provisional)	None	
B050602	Tier 2	3.0	Fuel Producer: MARTINEZ RENEWABLES LLC (1845); Facility Name: MARTINEZ REFINERY (90001); North American sourced Canola Oil transported by rail and ocean tanker to Renewable Diesel plant in Martinez, California; Natural Gas and Electricity; fuel produced in California (PROV3.0)	California	Canola Oil (006)	Renewable Diesel (RND)	None	None	RND006B05060200	56.54	56.54	12/26/2023	Application Package	Renewable Diesel	MARTINEZ RENEWABLES LLC (1845)	MARTINEZ REFINERY (90001)	North American sourced Canola Oil transported by rail and ocean tanker to Renewable Diesel plant in Martinez, California; Natural Gas and Electricity; fuel produced in California (Provisional)	None	
B050603	Tier 2	3.0	Fuel Producer: MARTINEZ RENEWABLES LLC (1845); Facility Name: MARTINEZ REFINERY (90001); North American sourced Distillers' Corn Oil, pre-treated at various facilities, transported by truck, rail, and barge to Renewable Diesel plant in Martinez, California; Natural Gas and Electricity; fuel produced in California (PROV3.0)	California	Distillers' Corn Oil (003)	Renewable Diesel (RND)	None	None	RND003B05060300	35.24	35.24	12/26/2023	Application Package	Renewable Diesel	MARTINEZ RENEWABLES LLC (1845)	MARTINEZ REFINERY (90001)	North American sourced Distillers' Corn Oil, pre-treated at various facilities, transported by truck, rail, and barge to Renewable Diesel plant in Martinez, California; Natural Gas and Electricity; fuel produced in California (Provisional)	None	
B050604	Tier 2	3.0	Fuel Producer: MARTINEZ RENEWABLES LLC (1845); Facility Name: MARTINEZ REFINERY (90001); North American sourced Used Cooking Oil, pre-treated at various facilities, transported by truck and rail to Renewable Diesel plant in Martinez, California; Natural Gas and Grid Electricity; fuel produced in California (PROV3.0)	California	Used Cooking Oil/Waste Oil (UCO) (001)	Renewable Diesel (RND)	None	None	RND001B05060400	29.22	29.22	12/26/2023	Application Package	Renewable Diesel	MARTINEZ RENEWABLES LLC (1845)	MARTINEZ REFINERY (90001)	North American sourced Used Cooking Oil, pre-treated at various facilities, transported by truck and rail to Renewable Diesel plant in Martinez, California; Natural Gas and Grid Electricity; fuel produced in California (Provisional)	None	
B050605	Tier 2	3.0	Fuel Producer: MARTINEZ RENEWABLES LLC (1845); Facility Name: MARTINEZ REFINERY (90001); North American sourced Animal Fat, pre-treated at various facilities, transported by truck, rail, barge, and ocean tanker to Renewable Diesel plant in Martinez, California; Natural Gas and Grid Electricity; fuel produced in California (PROV3.0)	California	Tallow (animal and poultry fat) (002)	Renewable Diesel (RND)	None	None	RND002B05060500	37.14	37.14	12/26/2023	Application Package	Renewable Diesel	MARTINEZ RENEWABLES LLC (1845)	MARTINEZ REFINERY (90001)	North American sourced Animal Fat, pre-treated at various facilities, transported by truck, rail, barge, and ocean tanker to Renewable Diesel plant in Martinez, California; Natural Gas and Grid Electricity; fuel produced in California (Provisional)	None	
B050606	Tier 2	3.0	Fuel Producer: MARTINEZ RENEWABLES LLC (1845); Facility Name: MARTINEZ REFINERY (90001); Globally sourced Animal Fat, pre-treated at various facilities, transported by truck, rail, and ocean tanker to Renewable Diesel plant in Martinez, California; Natural Gas and Grid Electricity; fuel produced in California (PROV3.0)	California	Tallow (animal and poultry fat) (002)	Renewable Diesel (RND)	None	None	RND002B05060600	46.40	46.40	12/26/2023	Application Package	Renewable Diesel	MARTINEZ RENEWABLES LLC (1845)	MARTINEZ REFINERY (90001)	Globally sourced Animal Fat, pre-treated at various facilities, transported by truck, rail, and ocean tanker to Renewable Diesel plant in Martinez, California; Natural Gas and Grid Electricity; fuel produced in California (Provisional)	None	
B052001	Tier 2	3.0	Fuel Producer: PHILLIPS 66 COMPANY (4528); Facility Name: Phillips 66 Rodeo (82191); Renewable diesel produced from Argentinian soybean oil transported by ocean tanker to California; natural gas, steam, off gases, grid electricity and hydrogen; distributed in California via barge (3.0	California	Soybean Oil (005)	Renewable Diesel (RND)	None	None	RND005B05200100	61.98	61.98	12/26/2023	Application Package	Renewable Diesel	PHILLIPS 66 COMPANY (4528)	Phillips 66 Rodeo (82191)	Renewable diesel produced from Argentinian soybean oil transported by ocean tanker to California; natural gas, steam, off gases, grid electricity and hydrogen; distributed in California via barge	None	
B026802	Tier 2	3.0	Fuel Producer: AltAir Paramount, LLC (6281); Facility Name: AltAir Paramount, LLC (83180); Site-Specific Rendered Animal Fat Sourced from JBS Brooks Alberta Canada transported by rail to Renewable Diesel plant in Paramount, California; Natural Gas, Grid Electricity, and Hydrogen; Renewable Diesel produced in California (PROV3.0)	California	Tallow (animal and poultry fat) (002)	Renewable Diesel (RND)	RND002B02680201	18.93	RND002B02680203	22.00	22.00	12/14/2023	None	Renewable Diesel	AltAir Paramount, LLC (6281)	AltAir Paramount, LLC (83180)	Site-Specific Rendered Animal Fat Sourced from JBS Brooks Alberta Canada transported by rail to Renewable Diesel plant in Paramount, California; Natural Gas, Grid Electricity, and Hydrogen; Renewable Diesel produced in California (Provisional)	2022 AFPR Recert Complete	
B026805	Tier 2	3.0	Fuel Producer: AltAir Paramount, LLC (6281); Facility Name: AltAir Paramount, LLC (83180); Site-Specific Rendered Animal Fat Sourced from JBS Greely Colorado transported by rail to Renewable Diesel plant in Paramount, California; Natural Gas, Grid Electricity, and Hydrogen; Renewable Diesel produced in California (PROV3.0)	California	Tallow (animal and poultry fat) (002)	Renewable Diesel (RND)	RND002B02680500	19.54	RND002B02680502	22.00	22.00	12/14/2023	None	Renewable Diesel	AltAir Paramount, LLC (6281)	AltAir Paramount, LLC (83180)	Site-Specific Rendered Animal Fat Sourced from JBS Greely Colorado transported by rail to Renewable Diesel plant in Paramount, California; Natural Gas, Grid Electricity, and Hydrogen; Renewable Diesel produced in California (Provisional)	2022 AFPR Recert Complete	
B026808	Tier 2	3.0	Fuel Producer: AltAir Paramount, LLC (6281); Facility Name: AltAir Paramount, LLC (83180); Site-Specific Rendered Animal Fat Sourced from JBS Hyrum Utah transported by Truck and rail to Renewable Diesel plant in Paramount, California; Natural Gas, Grid Electricity, and Hydrogen; Renewable Diesel produced in California (PROV3.0)	California	Tallow (animal and poultry fat) (002)	Renewable Diesel (RND)	RND002B02680800	15.64	RND002B02680801	17.98	17.98	12/12/2023	None	Renewable Diesel	AltAir Paramount, LLC (6281)	AltAir Paramount, LLC (83180)	Site-Specific Rendered Animal Fat Sourced from JBS Hyrum Utah transported by Truck and rail to Renewable Diesel plant in Paramount, California; Natural Gas, Grid Electricity, and Hydrogen; Renewable Diesel produced in California (Provisional)	2022 AFPR Recert Complete	
B026811	Tier 2	3.0	Fuel Producer: AltAir Paramount, LLC (6281); Facility Name: AltAir Paramount, LLC (83180); Site-Specific Rendered Animal Fat Sourced from JBS Dinmore Australia transported by truck and ocean tanker to Renewable Diesel plant in Paramount, California; Natural Gas, Grid Electricity, and Hydrogen; Renewable Diesel produced in California (PROV3.0)	California	Tallow (animal and poultry fat) (002)	Renewable Diesel (RND)	RND002B02681101	29.78	RND002B02681103	32.00	32.00	12/14/2023	None	Renewable Diesel	AltAir Paramount, LLC (6281)	AltAir Paramount, LLC (83180)	Site-Specific Rendered Animal Fat Sourced from JBS Dinmore Australia transported by truck and ocean tanker to Renewable Diesel plant in Paramount, California; Natural Gas, Grid Electricity, and Hydrogen; Renewable Diesel produced in California (Provisional)	2022 AFPR Recert Complete	
B026814	Tier 2	3.0	Fuel Producer: AltAir Paramount, LLC (6281); Facility Name: AltAir Paramount, LLC (83180); North American Sourced Rendered Animal Fat transported by rail to Renewable Diesel plant in Paramount, California; Natural Gas, Grid Electricity, and Hydrogen; Renewable Diesel produced in California (PROV3.0)	California	Tallow (animal and poultry fat) (002)	Renewable Diesel (RND)	RND002B02681400	32.93	RND002B02681401	37.00	37.00	12/12/2023	None	Renewable Diesel	AltAir Paramount, LLC (6281)	AltAir Paramount, LLC (83180)	North American Sourced Rendered Animal Fat transported by rail to Renewable Diesel plant in Paramount, California; Natural Gas, Grid Electricity, and Hydrogen; Renewable Diesel produced in California (Provisional)	2022 AFPR Recert Complete	
B026817	Tier 2	3.0	Fuel Producer: AltAir Paramount, LLC (6281); Facility Name: AltAir Paramount, LLC (83180); Site-Specific Rendered Australian Sourced Animal Fat transported by truck and ocean tanker to Renewable Diesel plant in Paramount, California; Natural Gas, Grid Electricity, and Hydrogen; Renewable Diesel produced in California (PROV3.0)	California	Tallow (animal and poultry fat) (002)	Renewable Diesel (RND)	RND002B02681700	38.43	RND002B02681701	43.00	43.00	12/12/2023	None	Renewable Diesel	AltAir Paramount, LLC (6281)	AltAir Paramount, LLC (83180)	Site-Specific Rendered Australian Sourced Animal Fat transported by truck and ocean tanker to Renewable Diesel plant in Paramount, California; Natural Gas, Grid Electricity, and Hydrogen; Renewable Diesel produced in California (Provisional)	2022 AFPR Recert Complete	
B044001	Tier 2	3.0	Fuel Producer: PHILLIPS 66 COMPANY (4528); Facility Name: Phillips 66 Rodeo (82191); Renewable diesel produced from used cooking oil; UCO collected from Japan, Malaysia, Singapore and South Korea; transported by ocean tanker to Renewable Diesel Plant in Rodeo, California; Natural gas, Steam, Off gases, Grid electricity and (Trunc) (PROV3.0)	California	Used Cooking Oil/Waste Oil (UCO) (001)	Renewable Diesel (RND)	None	None	RND001B04400100	25.96	25.96	3/25/2024	Application Package	Renewable Diesel	PHILLIPS 66 COMPANY (4528)	Phillips 66 Rodeo (82191)	Renewable diesel produced from used cooking oil; UCO collected from Japan, Malaysia, Singapore and South Korea; transported by ocean tanker to Renewable Diesel Plant in Rodeo, California; Natural gas, Steam, Off gases, Grid electricity and (Trunc) (Provisional)	None	
B059202	Tier 2	3.0	Fuel Producer: AltAir Paramount, LLC (6281); Facility Name: AltAir Paramount, LLC (83180); North American sourced Soybean Oil transported by rail to Renewable Diesel plant in Paramount, California; Natural Gas, Grid Electricity, and Hydrogen; Renewable Diesel produced in California (PROV3.0)	California	Soybean Oil (005)	Renewable Diesel (RND)	None	None	RND005B05920200	60.50	60.50	6/26/2024	Application Package	Renewable Diesel	AltAir Paramount, LLC (6281)	AltAir Paramount, LLC (83180)	North American sourced Soybean Oil transported by rail to Renewable Diesel plant in Paramount, California; Natural Gas, Grid Electricity, and Hydrogen; Renewable Diesel produced in California (Provisional)	None	
B059205	Tier 2	3.0	Fuel Producer: AltAir Paramount, LLC (6281); Facility Name: AltAir Paramount, LLC (83180); North American sourced Distillers' Corn Oil transported by truck to Renewable Diesel plant in Paramount, California; Natural Gas, Grid Electricity, and Hydrogen; Renewable Diesel produced in California (PROV3.0)	California	Distillers' Corn Oil (003)	Renewable Diesel (RND)	None	None	RND003B05920500	36.50	36.50	6/26/2024	Application Package	Renewable Diesel	AltAir Paramount, LLC (6281)	AltAir Paramount, LLC (83180)	North American sourced Distillers' Corn Oil transported by truck to Renewable Diesel plant in Paramount, California; Natural Gas, Grid Electricity, and Hydrogen; Renewable Diesel produced in California (Provisional)	None	
B059208	Tier 2	3.0	Fuel Producer: AltAir Paramount, LLC (6281); Facility Name: AltAir Paramount, LLC (83180); North American sourced Used Cooking transported by truck to Renewable Diesel plant in Paramount, California; Natural Gas, Grid Electricity, and Hydrogen; Renewable Diesel produced in California (PROV3.0)	California	Used Cooking Oil/Waste Oil (UCO) (001)	Renewable Diesel (RND)	None	None	RND001B05920800	22.00	22.00	6/26/2024	Application Package	Renewable Diesel	AltAir Paramount, LLC (6281)	AltAir Paramount, LLC (83180)	North American sourced Used Cooking transported by truck to Renewable Diesel plant in Paramount, California; Natural Gas, Grid Electricity, and Hydrogen; Renewable Diesel produced in California (Provisional)	None	
B059211	Tier 2	3.0	Fuel Producer: AltAir Paramount, LLC (6281); Facility Name: AltAir Paramount, LLC (83180); Site-Specific Rendered Animal Fat sourced from JBS Beef Australia transported by truck and ocean tanker to Renewable Diesel plant in Paramount, California; Natural Gas, Grid Electricity, and Hydrogen; Renewable Diesel produced in California (PROV3.0)	California	Tallow (animal and poultry fat) (002)	Renewable Diesel (RND)	None	None	RND002B05921100	24.00	24.00	6/26/2024	Application Package	Renewable Diesel	AltAir Paramount, LLC (6281)	AltAir Paramount, LLC (83180)	Site-Specific Rendered Animal Fat sourced from JBS Beef Australia transported by truck and ocean tanker to Renewable Diesel plant in Paramount, California; Natural Gas, Grid Electricity, and Hydrogen; Renewable Diesel produced in California (Provisional)	None	

Appendix D
Fuel Efficiency Model

FUEL EFFICIENCY MODEL

Appendix D

Eastbound Regression Model Factors	
Intercept	7.886
Grade Coefficient	-100.886
Distance Coefficient	-0.01147
Weight Coefficient	0.000024
HPT Coefficient	-0.1616

Train Factor	**B**	-0.0218
	Q	0.1222
	S	-0.126
	Z	0.0825
	Other	-0.057

Westbound Regression Model Factors	
Intercept	7.476
Grade Coefficient	-84.425
Distance Coefficient	-0.00392
Weight Coefficient	0.0000091
HPT Coefficient	-0.1194

Train Factor	**B**	-0.0668
	Q	0.1085
	S	-0.0215
	Z	-0.05
	Other	0.030

Regression model developed using JMP Statistical Model with 2023 train data provided by BNSF.

Appendix E
Summary of CEM Results

Summary of Corridor Emissions - 2028

No Project

Region	Total Peak Daily Corridor Criteria Pollutant Emissions [1] (lb/day)						Total Peak Daily Corridor GHG Emissions [1] (metric tons/day)			
Pollutant	**PM10**	**PM2.5**	**VOC**	**NOx**	**CO**	**SOx**	**CO_2**	**N_2O**	**CH_4**	**$CO2e^2$**
SCAQMD	230.1	223.2	431.9	11,008.3	2,776.3	9.8	481.1	0.0	0.0	485.7
MDAQMD	1,020.5	989.8	1,915.2	48,805.7	12,309.8	43.5	2,135.9	0.1	0.2	2,156.3
West of BIG	340.6	330.4	639.3	16,292.2	4,109.1	14.5	712.7	0.0	0.1	719.5
East of BIG	909.9	882.6	1,707.8	43,521.7	10,976.9	38.7	1,904.3	0.0	0.1	1,922.5
Total	1,250.5	1,213.0	2,347.1	59,813.9	15,086.0	53.3	2,617.0	0.1	0.2	2,642.0

Region	Annual Corridor Criteria Pollutant Emissions [1] (tons/yr)						Annual Corridor GHG Emissions [1] (metric tons/yr)			
Pollutant	**PM10**	**PM2.5**	**VOC**	**NOx**	**CO**	**SOx**	**CO_2**	**N_2O**	**CH_4**	**$CO2e^2$**
SCAQMD	37.2	36.0	69.8	1,777.9	448.4	1.6	155,410.4	4.0	12.2	156,894.2
MDAQMD	164.8	159.9	309.3	7,882.3	1,988.1	7.0	689,907.6	17.6	54.1	696,494.5
West of BIG	55.0	53.4	103.2	2,631.3	663.6	2.3	230,210.5	5.9	18.0	232,408.4
East of BIG	147.0	142.5	275.8	7,028.9	1,772.8	6.3	615,107.5	15.7	48.2	620,980.2
Total	202.0	195.9	379.1	9,660.2	2,436.5	8.6	845,318.0	21.5	66.2	853,388.7

Project

Region	Total Peak Daily Corridor Criteria Pollutant Emissions [1] (lb/day)						Total Peak Daily Corridor GHG Emissions [1] (metric tons/day)			
Pollutant	**PM10**	**PM2.5**	**VOC**	**NOx**	**CO**	**SOx**	**CO_2**	**N_2O**	**CH_4**	**$CO2e^2$**
SCAQMD	227.7	220.9	435.8	11,119.6	3,081.5	11.0	530.8	0.0	0.0	535.9
MDAQMD	1,060.4	1,028.6	2,000.7	51,204.3	12,981.6	46.2	2,200.8	0.1	0.2	2,221.8
West of BIG	337.6	327.4	644.1	16,418.9	4,506.3	16.1	775.7	0.0	0.1	783.1
East of BIG	950.5	922.0	1,792.4	45,905.0	11,556.8	41.1	1,955.9	0.0	0.2	1,974.6
Total	1,288.1	1,249.4	2,436.5	62,323.9	16,063.1	57.2	2,731.6	0.1	0.2	2,757.6

Region	Annual Corridor Criteria Pollutant Emissions [1] (tons/yr)						Annual Corridor GHG Emissions [1] (metric tons/yr)			
Pollutant	**PM10**	**PM2.5**	**VOC**	**NOx**	**CO**	**SOx**	**CO_2**	**N_2O**	**CH_4**	**$CO2e^2$**
SCAQMD	36.8	35.7	70.4	1,795.9	497.7	1.8	171,450.5	4.4	13.4	173,087.4
MDAQMD	171.3	166.1	323.1	8,269.7	2,096.6	7.5	710,864.7	18.1	55.7	717,651.7
West of BIG	54.5	52.9	104.0	2,651.7	727.8	2.6	250,546.2	6.4	19.6	252,938.3
East of BIG	153.5	148.9	289.5	7,413.9	1,866.5	6.6	631,769.0	16.1	49.5	637,800.8
Total	208.0	201.8	393.5	10,065.6	2,594.3	9.2	882,315.2	22.5	69.1	890,739.1

Project Increment

Region	Total Peak Daily Corridor Criteria Pollutant Emissions [1] (lb/day)						Total Peak Daily Corridor GHG Emissions [1] (metric tons/day)			
Pollutant	**PM10**	**PM2.5**	**VOC**	**NOx**	**CO**	**SOx**	**CO_2**	**N_2O**	**CH_4**	**$CO2e^2$**
SCAQMD	-2.4	-2.3	3.9	111.4	305.2	1.2	49.7	0.0	0.0	50.1
MDAQMD	40.0	38.8	85.5	2,398.6	671.8	2.7	64.9	0.0	0.0	65.5
West of BIG	-3.0	-2.9	4.8	126.7	397.2	1.5	63.0	0.0	0.0	63.6
East of BIG	40.6	39.4	84.5	2,383.3	579.9	2.4	51.6	0.0	0.0	52.1
Total	37.6	36.4	89.4	2,510.0	977.1	3.9	114.5	0.0	0.0	115.6

Region	Annual Corridor Criteria Pollutant Emissions [1] (tons/yr)						Annual Corridor GHG Emissions [1] (metric tons/yr)			
Pollutant	**PM10**	**PM2.5**	**VOC**	**NOx**	**CO**	**SOx**	**CO_2**	**N_2O**	**CH_4**	**$CO2e^2$**
SCAQMD	-0.4	-0.4	0.6	18.0	49.3	0.2	16,040.1	0.4	1.3	16,193.3
MDAQMD	6.5	6.3	13.8	387.4	108.5	0.4	20,957.1	0.5	1.6	21,157.2
West of BIG	-0.5	-0.5	0.8	20.5	64.1	0.2	20,335.7	0.5	1.6	20,529.9
East of BIG	6.6	6.4	13.7	384.9	93.7	0.4	16,661.5	0.4	1.3	16,820.6
Total	6.1	5.9	14.4	405.4	157.8	0.6	36,997.2	0.9	2.9	37,350.4

Appendix E

Summary of Corridor Emissions - 2033

No Project

Train Type	Total Peak Daily Corridor Criteria Pollutant Emissions [1] (lb/day)						Total Peak Daily Corridor GHG Emissions [1] (metric tons/day)			
Pollutant	**PM10**	**PM2.5**	**VOC**	**NOx**	**CO**	**SOx**	**CO_2**	**N_2O**	**CH_4**	**$CO2e^2$**
SCAQMD	229.3	222.4	434.9	11,301.9	2,986.7	10.5	517.6	0.0	0.0	522.5
MDAQMD	1,015.0	984.5	1,924.4	49,997.4	13,213.5	46.6	2,292.6	0.1	0.2	2,314.5
West of BIG	339.0	328.8	642.8	16,700.5	4,413.6	15.6	765.5	0.0	0.1	772.8
East of BIG	905.3	878.1	1,716.5	44,598.8	11,786.6	41.6	2,044.7	0.1	0.2	2,064.3
Total	1,244.3	1,206.9	2,359.3	61,299.4	16,200.2	57.2	2,810.2	0.1	0.2	2,837.1

Region	Annual Corridor Criteria Pollutant Emissions [1] (tons/yr)						Annual Corridor GHG Emissions [1] (metric tons/yr)			
Pollutant	**PM10**	**PM2.5**	**VOC**	**NOx**	**CO**	**SOx**	**CO_2**	**N_2O**	**CH_4**	**$CO2e^2$**
SCAQMD	37.0	35.9	70.2	1,825.3	482.4	1.7	167,186.3	4.3	13.1	168,782.5
MDAQMD	163.9	159.0	310.8	8,074.8	2,134.0	7.5	740,544.5	18.9	58.0	747,614.8
West of BIG	54.7	53.1	103.8	2,697.2	712.8	2.5	247,263.4	6.3	19.4	249,624.2
East of BIG	146.2	141.8	277.2	7,202.9	1,903.6	6.7	660,467.4	16.8	51.8	666,773.2
Total	201.0	194.9	381.0	9,900.1	2,616.4	9.2	907,730.8	23.1	71.1	916,397.3

Project

Train Type	Total Peak Daily Corridor Criteria Pollutant Emissions [1] (lb/day)						Total Peak Daily Corridor GHG Emissions [1] (metric tons/day)			
Pollutant	**PM10**	**PM2.5**	**VOC**	**NOx**	**CO**	**SOx**	**CO_2**	**N_2O**	**CH_4**	**$CO2e^2$**
SCAQMD	227.5	220.7	441.6	11,462.0	3,392.8	12.1	584.2	0.0	0.0	589.8
MDAQMD	1,067.6	1,035.6	2,035.5	53,105.9	14,127.1	50.3	2,394.4	0.1	0.2	2,417.3
West of BIG	336.9	326.8	651.6	16,898.8	4,945.1	17.6	851.0	0.0	0.1	859.1
East of BIG	958.3	929.5	1,825.5	47,669.0	12,574.7	44.8	2,127.7	0.1	0.2	2,148.0
Total	1,295.1	1,256.3	2,477.1	64,567.9	17,519.9	62.4	2,978.6	0.1	0.2	3,007.1

Region	Annual Corridor Criteria Pollutant Emissions [1] (tons/yr)						Annual Corridor GHG Emissions [1] (metric tons/yr)			
Pollutant	**PM10**	**PM2.5**	**VOC**	**NOx**	**CO**	**SOx**	**CO_2**	**N_2O**	**CH_4**	**$CO2e^2$**
SCAQMD	36.7	35.6	71.3	1,851.2	547.9	2.0	188,700.0	4.8	14.8	190,501.6
MDAQMD	172.4	167.2	328.7	8,576.8	2,281.6	8.1	773,423.2	19.7	60.6	780,807.5
West of BIG	54.4	52.8	105.2	2,729.2	798.7	2.8	274,865.4	7.0	21.5	277,489.7
East of BIG	154.8	150.1	294.8	7,698.8	2,030.9	7.2	687,257.9	17.5	53.8	693,819.5
Total	209.2	202.9	400.1	10,428.0	2,829.5	10.1	962,123.2	24.5	75.4	971,309.1

Project Increment

Train Type	Total Peak Daily Corridor Criteria Pollutant Emissions [1] (lb/day)						Total Peak Daily Corridor GHG Emissions [1] (metric tons/day)			
Pollutant	**PM10**	**PM2.5**	**VOC**	**NOx**	**CO**	**SOx**	**CO_2**	**N_2O**	**CH_4**	**$CO2e^2$**
SCAQMD	-1.8	-1.7	6.7	160.1	406.1	1.6	66.6	0.0	0.0	67.2
MDAQMD	52.6	51.1	111.1	3,108.4	913.6	3.6	101.8	0.0	0.0	102.8
West of BIG	-2.1	-2.0	8.8	198.3	531.6	2.0	85.5	0.0	0.0	86.3
East of BIG	53.0	51.4	108.9	3,070.2	788.1	3.1	82.9	0.0	0.0	83.7
Total	50.9	49.3	117.8	3,268.5	1,319.7	5.2	168.4	0.0	0.0	170.0

Region	Annual Corridor Criteria Pollutant Emissions [1] (tons/yr)						Annual Corridor GHG Emissions [1] (metric tons/yr)			
Pollutant	**PM10**	**PM2.5**	**VOC**	**NOx**	**CO**	**SOx**	**CO_2**	**N_2O**	**CH_4**	**$CO2e^2$**
SCAQMD	-0.3	-0.3	1.1	25.9	65.6	0.3	21,513.7	0.5	1.7	21,719.1
MDAQMD	8.5	8.2	17.9	502.0	147.5	0.6	32,878.7	0.8	2.6	33,192.7
West of BIG	-0.3	-0.3	1.4	32.0	85.9	0.3	27,602.0	0.7	2.2	27,865.5
East of BIG	8.6	8.3	17.6	495.9	127.3	0.5	26,790.5	0.7	2.1	27,046.3
Total	8.2	8.0	19.0	527.9	213.1	0.8	54,392.5	1.4	4.3	54,911.8

Summary of Corridor Emissions - 2048

No Project

Train Type	Total Peak Daily Corridor Criteria Pollutant Emissions [1] (lb/day)						Total Peak Daily Corridor GHG Emissions [1] (metric tons/day)			
Pollutant	**PM10**	**PM2.5**	**VOC**	**NOx**	**CO**	**SOx**	**CO_2**	**N_2O**	**CH_4**	**$CO2e^2$**
SCAQMD	0.0	213.1	0.0	0.0	0.0	0.0	656.3	0.0	0.1	662.6
MDAQMD	0.0	939.9	0.0	0.0	0.0	0.0	2,897.3	0.1	0.2	2,925.0
West of BIG	0.0	314.3	0.0	0.0	0.0	0.0	968.8	0.0	0.1	978.0
East of BIG	864.5	838.6	1,712.5	48,059.8	14,900.8	52.6	2,584.8	0.1	0.2	2,609.5
Total	0.0	1,152.9	0.0	0.0	0.0	0.0	3,553.6	0.1	0.3	3,587.5

Region	Annual Corridor Criteria Pollutant Emissions [1] (tons/yr)						Annual Corridor GHG Emissions [1] (metric tons/yr)			
Pollutant	**PM10**	**PM2.5**	**VOC**	**NOx**	**CO**	**SOx**	**CO_2**	**N_2O**	**CH_4**	**$CO2e^2$**
SCAQMD	0.0	34.4	0.0	0.0	0.0	0.0	211,988.8	5.4	16.6	214,012.8
MDAQMD	0.0	151.8	0.0	0.0	0.0	0.0	935,859.3	23.8	73.3	944,794.4
West of BIG	0.0	50.8	0.0	0.0	0.0	0.0	312,925.1	8.0	24.5	315,912.8
East of BIG	139.6	135.4	276.6	7,761.9	2,406.5	8.5	834,923.0	21.3	65.4	842,894.4
Total	0.0	186.2	0.0	0.0	0.0	0.0	1,147,848.1	29.2	89.9	1,158,807.2

Project

Train Type	Total Peak Daily Corridor Criteria Pollutant Emissions [1] (lb/day)						Total Peak Daily Corridor GHG Emissions [1] (metric tons/day)			
Pollutant	**PM10**	**PM2.5**	**VOC**	**NOx**	**CO**	**SOx**	**CO_2**	**N_2O**	**CH_4**	**$CO2e^2$**
SCAQMD	0.0	213.1	0.0	382,729.6	0.0	0.0	735.8	0.0	0.1	742.9
MDAQMD	1,011.5	981.2	2,015.2	56,780.0	17,703.5	63.0	2,999.0	0.1	0.2	3,027.6
West of BIG	323.6	313.8	654.7	18,274.1	6,199.2	22.1	1,067.7	0.0	0.1	1,077.9
East of BIG	907.7	880.5	1,806.6	50,963.8	15,771.3	56.1	2,667.1	0.1	0.2	2,692.5
Total	1,011.5	1,194.3	2,015.2	439,509.6	17,703.5	63.0	3,734.8	0.1	0.3	3,770.4

Region	Annual Corridor Criteria Pollutant Emissions [1] (tons/yr)						Annual Corridor GHG Emissions [1] (metric tons/yr)			
Pollutant	**PM10**	**PM2.5**	**VOC**	**NOx**	**CO**	**SOx**	**CO_2**	**N_2O**	**CH_4**	**$CO2e^2$**
SCAQMD	0.0	34.4	0.0	61,812.5	0.0	0.0	237,679.4	6.1	18.6	239,948.7
MDAQMD	163.4	158.5	325.5	9,170.2	2,859.2	10.2	968,689.0	24.7	75.9	977,937.5
West of BIG	52.3	50.7	105.7	2,951.3	1,001.2	3.6	344,881.2	8.8	27.0	348,174.0
East of BIG	146.6	142.2	291.8	8,230.9	2,547.1	9.1	861,487.2	21.9	67.5	869,712.2
Total	163.4	192.9	325.5	70,982.7	2,859.2	10.2	1,206,368.4	30.7	94.5	1,217,886.2

Project Increment

Train Type	Total Peak Daily Corridor Criteria Pollutant Emissions [1] (lb/day)						Total Peak Daily Corridor GHG Emissions [1] (metric tons/day)			
Pollutant	**PM10**	**PM2.5**	**VOC**	**NOx**	**CO**	**SOx**	**CO_2**	**N_2O**	**CH_4**	**$CO2e^2$**
SCAQMD	0.0	0.1	0.0	382,729.6	0.0	0.0	79.5	0.0	0.0	80.3
MDAQMD	1,011.5	41.3	2,015.2	56,780.0	17,703.5	63.0	101.6	0.0	0.0	102.6
West of BIG	323.6	-0.5	654.7	18,274.1	6,199.2	22.1	98.9	0.0	0.0	99.9
East of BIG	43.2	41.9	94.2	2,903.9	870.5	3.5	82.2	0.0	0.0	83.0
Total	1,011.5	41.4	2,015.2	439,509.6	17,703.5	63.0	181.2	0.0	0.0	182.9

Region	Annual Corridor Criteria Pollutant Emissions [1] (tons/yr)						Annual Corridor GHG Emissions [1] (metric tons/yr)			
Pollutant	**PM10**	**PM2.5**	**VOC**	**NOx**	**CO**	**SOx**	**CO_2**	**N_2O**	**CH_4**	**$CO2e^2$**
SCAQMD	0.0	0.0	0.0	61,812.5	0.0	0.0	25,690.6	0.7	2.0	25,935.9
MDAQMD	163.4	6.7	325.5	9,170.2	2,859.2	10.2	32,829.7	0.8	2.6	33,143.1
West of BIG	52.3	-0.1	105.7	2,951.3	1,001.2	3.6	31,956.1	0.8	2.5	32,261.2
East of BIG	7.0	6.8	15.2	469.0	140.6	0.6	26,564.2	0.7	2.1	26,817.8
Total	163.4	6.7	325.5	70,982.7	2,859.2	10.2	58,520.3	1.5	4.6	59,079.0

CORRIDOR EMISSION CALCULATIONS

No Project Scenario	
Analysis Year	2028

Description:

Analysis of the train movement Eastbound and Westbound for the No Project.
A composite emission factor is calculated using the MOU reported fleet mix and EPA emission factors.
Corridor parameters are daily averages provided by BNSF.
Eastbound uses in state fuel blend.
Westbound uses out-of-state fuel blend.

Out-of-State =	100%	0% RD Blend/Use		In State =	100%	1% RD Blend/Use
Out-of-State =	0% Renewable			In State =	1% Renewable	

Scenario Fleet Parameters

Tier	Locomotive Inventory[1]	Locomotive Fleet Mix (%)[1]	Composite Line-Haul Criteria Pollutant Emission Factors (g/gal)						GHG (g/gal)[2]		
			PM10	PM2.5	VOC	NOx	CO	SOx	CO_2	N_2O	CH_4
Uncontrolled	0	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tier 0	0	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tier 0+	0	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tier 1	0	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tier 1+	1137	26.48%	1.10	1.07	1.93	36.91	7.05	0.02	2704.12	0.07	0.21
Tier 2	0	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tier 2+	1589	37.01%	0.62	0.60	1.21	38.11	9.85	0.03	3779.10	0.10	0.30
Tier 3	1198	27.91%	0.46	0.45	0.91	28.73	7.43	0.03	2849.19	0.07	0.22
Tier 4	369	8.60%	0.03	0.03	0.09	1.79	2.29	0.01	877.59	0.02	0.07
Total - Westbound[3]	**4,293**	**100%**	**2.21**	**2.14**	**4.14**	**105.54**	**26.62**	**0.09**	**10210**	**0.26**	**0.80**
Total - Eastbound[3]	**4,293**	**100%**	**2.20**	**2.14**	**4.13**	**105.41**	**26.58**	**0.09**	**10147**	**0.26**	**0.80**

Notes:

1. Locomotive Inventory based on 2023 CARB 98 MOU.
2. GHG emissions adjusted for 62% reduction for Carbon Intensity for any renewable diesl usage (CARB 2024).
3. Adjusted for alternative fuel blend.

CORRIDOR EMISSION CALCULATIONS

No Project Scenario	
Analysis Year	2028

Description:

Analysis of the train movement Eastbound and Westbound for the No Project.
A composite emission factor is calculated using the MOU reported fleet mix and EPA emission factors.
Corridor parameters are daily averages provided by BNSF.
Eastbound uses in state fuel blend.
Westbound uses out-of-state fuel blend.

Out-of-State =	100%	0% RD Blend/Use		In State =	100%	1% RD Blend/Use
Out-of-State =	0% Renewable			In State =	1% Renewable	

Locomotive Parameters

Locomotive Parameters	Idling Power Rating[1]	Brake Specific Fuel Consumption[2]	Weight of Locomotive Engine[3]	Weight of Fuel[3]
Units	bhp/loco	bhp-hr/gal	tons/loco	tons/loco
Value	25	20.8	209	18

Notes:

1. US EPA 1998, Locomotive Emission Standards, Appendix I. Peak idling power.
2. US EPA 2009, Emission Factors for Locomotives, Table 3.
3. Provided by BNSF.

Scenario Train Parameters[1]

Train Type	Train-Trip Length (Eastbound)	Train-Trip Length (Westbound)	Daily Train Trips (Eastbound)	Daily Train Trips (Westbound)	Locomotives (Eastbound)	Locomotives (Westbound)	Locomotive Weight (Eastbound)	Locomotive Weight (Westbound)	Freight Weight (Eastbound)	Freight Weight (Westbound)	Idling Time (Non-Directional)
Units	miles/trip	miles/trip	train-trips/day	train-trips/day	loco/train	loco/train	tons/train	tons/train	tons/train	tons/train	hours/day
B-Bare Table	65.49	66.85	0.39	2.11	2.00	2.00	454.00	454.00	2456.63	2586.85	0.35
Q-Guaranteed	67.77	65.65	2.97	3.46	3.32	2.38	754.64	541.38	5850.98	5246.88	0.33
S-Stack	86.20	86.20	3.86	4.79	5.60	3.49	1271.07	792.43	9854.98	7679.92	0.78
Z-Z Trains	65.08	65.23	5.73	4.55	3.86	3.17	875.71	720.03	5473.26	4605.37	0.86
NIM-Other Non-Intermodal	56.95	58.84	3.49	4.12	3.32	3.37	753.03	764.03	5838.46	7404.69	3.02

Notes:

1. Provided By BNSF. Average daily values.

Scenario Fuel Parameters[1]

Train Type	Horsepower per Ton (HPT) (Eastbound)	Horsepower per Ton (HPT) (Westbound)	East Elevation	West Elevation	Segment Length	Grade	Grade	Train Factor	Train Factor	Fuel Efficiency (Eastbound)	Fuel Efficiency (Westbound)
Units	bhp/ton	bhp/ton	ft	ft	mi	Eastbound	Westbound	Eastbound	Westbound	ton-miles/gal	ton-miles/gal
B-Bare Table	2.50	2.00	1073	17	112	0.002	-0.002	-0.022	-0.067	734.03	1196.11
Q-Guaranteed	2.50	2.00	1073	17	112	0.002	-0.002	0.122	0.109	902.30	1468.25
S-Stack	2.50	2.00	1073	17	112	0.002	-0.002	-0.126	-0.022	634.97	1218.87
Z-Z Trains	3.10	3.03	1073	17	112	0.002	-0.002	0.083	-0.050	806.51	1105.13
NIM-Other Non-Intermodal	2.50	2.00	1073	17	112	0.002	-0.002	-0.057	0.030	853.61	1424.61

Notes:

1. Provided By BNSF. Fuel Efficiency based on regression model from 2023 train data.

CORRIDOR EMISSION CALCULATIONS

No Project Scenario	
Analysis Year	2028

Description:

Analysis of the train movement Eastbound and Westbound for the No Project.
A composite emission factor is calculated using the MOU reported fleet mix and EPA emission factors.
Corridor parameters are daily averages provided by BNSF.
Eastbound uses in state fuel blend.
Westbound uses out-of-state fuel blend.

Out-of-State =	100%	0% RD Blend/Use	In State =	100%	1% RD Blend/Use
Out-of-State =	0% Renewable		In State =	1% Renewable	

Scenario Daily Emissions Summary

Train Type	Total Peak Daily Corridor Criteria Pollutant Emissions [1] (tons/day)						Total Peak Daily Corridor GHG Emissions [1] (metric tons/day)			
Pollutant	**PM10**	**PM2.5**	**VOC**	**NOx**	**CO**	**SOx**	**CO_2**	**N_2O**	**CH_4**	**$CO2e^2$**
Non-Affected Trains	0.022	0.021	0.041	1.039	0.262	0.001	90.9	0.0	0.0	91.8
Affected Trains	0.031	0.030	0.059	1.497	0.377	0.001	130.9	0.0	0.0	132.2
Total	0.053	0.051	0.100	2.536	0.640	0.002	221.9	0.0	0.0	224.0

Direction of Travel	Average Moving Non-Affected Trains Daily Corridor Criteria Pollutant Emissions (tons/day)						Non-Affected Trains Daily Corridor GHG Emissions (metric tons/day)			
Pollutant	**PM10**	**PM2.5**	**VOC**	**NOx**	**CO**	**SOx**	**CO_2**	**N_2O**	**CH_4**	**$CO2e^2$**
Eastbound	0.011	0.011	0.021	0.529	0.134	0.000	46.2	0.0	0.0	46.7
Westbound	0.008	0.008	0.015	0.375	0.095	0.000	32.9	0.0	0.0	33.2
Total	0.019	0.018	0.035	0.904	0.228	0.001	79.1	0.0	0.0	79.9

Direction of Travel	Average Moving Affected Trains Daily Corridor Criteria Pollutant Emissions (tons/day)						Affected Trains Daily Corridor GHG Emissions (metric tons/day)			
Pollutant	**PM10**	**PM2.5**	**VOC**	**NOx**	**CO**	**SOx**	**CO_2**	**N_2O**	**CH_4**	**$CO2e^2$**
Eastbound	0.017	0.016	0.032	0.809	0.204	0.001	70.7	0.0	0.0	71.3
Westbound	0.011	0.010	0.020	0.510	0.129	0.000	44.7	0.0	0.0	45.2
Total	0.028	0.027	0.052	1.319	0.333	0.001	115.4	0.0	0.0	116.5

Train Type	Average Idling Daily Corridor Criteria Pollutant Emissions (tons/day)						Total Idling Daily Corridor GHG Emissions (metric tons/day)			
Pollutant	**PM10**	**PM2.5**	**VOC**	**NOx**	**CO**	**SOx**	**CO_2**	**N_2O**	**CH_4**	**$CO2e^2$**
Non-Affected Trains	3.17E-04	3.07E-04	5.94E-04	1.51E-02	3.82E-03	1.35E-05	1.3	0.0	0.0	1.3
Affected Trains	1.10E-04	1.07E-04	2.07E-04	5.27E-03	1.33E-03	4.69E-06	0.5	0.0	0.0	0.5
Total	4.27E-04	4.14E-04	8.01E-04	2.04E-02	5.15E-03	1.82E-05	1.8	0.0	0.0	1.8

Notes:

1. Peak daily emissions based on 13% safety factor on average daily emissions.

2. Global warming potentials for CO2e based on Table A-1 to Subpart A of Part 98, Title 40. https://www.ecfr.gov/current/title-40/part-98/appendix-Table A-1 to Subpart A of Part 98

CORRIDOR EMISSION CALCULATIONS

No Project Scenario	
Analysis Year	2028

Description:

Analysis of the train movement Eastbound and Westbound for the No Project.
A composite emission factor is calculated using the MOU reported fleet mix and EPA emission factors.
Corridor parameters are daily averages provided by BNSF.
Eastbound uses in state fuel blend.
Westbound uses out-of-state fuel blend.

Out-of-State =	100%	0% RD Blend/Use		In State =	100%	1% RD Blend/Use
Out-of-State =	0%	Renewable		In State =	1%	Renewable

Scenario Fleet Parameters

Tier	Locomotive Inventory[1]	Locomotive Fleet Mix (%)[1]	Composite Line-Haul Criteria Pollutant Emission Factors (g/gal)						GHG (g/gal)[2]		
			PM10	PM2.5	VOC	NOx	CO	SOx	CO_2	N_2O	CH_4
Uncontrolled	0	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tier 0	0	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tier 0+	0	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tier 1	0	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tier 1+	1137	26.48%	1.10	1.07	1.93	36.91	7.05	0.02	2704.12	0.07	0.21
Tier 2	0	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tier 2+	1589	37.01%	0.62	0.60	1.21	38.11	9.85	0.03	3779.10	0.10	0.30
Tier 3	1198	27.91%	0.46	0.45	0.91	28.73	7.43	0.03	2849.19	0.07	0.22
Tier 4	369	8.60%	0.03	0.03	0.09	1.79	2.29	0.01	877.59	0.02	0.07
Total - Westbound[3]	**4,293**	**100%**	**2.21**	**2.14**	**4.14**	**105.54**	**26.62**	**0.09**	**10210**	**0.26**	**0.80**
Total - Eastbound[3]	**4,293**	**100%**	**2.20**	**2.14**	**4.13**	**105.41**	**26.58**	**0.09**	**10147**	**0.26**	**0.80**

Notes:

1. Locomotive Inventory based on 2023 CARB 98 MOU.
2. GHG emissions adjusted for 62% reduction for Carbon Intensity for any renewable diesl usage (CARB 2024).
3. Adjusted for alternative fuel blend.

CORRIDOR EMISSION CALCULATIONS

No Project Scenario	
Analysis Year	2028

Description:

Analysis of the train movement Eastbound and Westbound for the No Project.
A composite emission factor is calculated using the MOU reported fleet mix and EPA emission factors.
Corridor parameters are daily averages provided by BNSF.
Eastbound uses in state fuel blend.
Westbound uses out-of-state fuel blend.

Out-of-State =	100%	0% RD Blend/Use		In State =	100%	1% RD Blend/Use
Out-of-State =	0% Renewable			In State =	1% Renewable	

Locomotive Parameters

Locomotive Parameters	Idling Power Rating[1]	Brake Specific Fuel Consumption[2]	Weight of Locomotive Engine[3]	Weight of Fuel[3]
Units	bhp/loco	bhp-hr/gal	tons/loco	tons/loco
Value	25	20.8	209	18

Notes:

1. US EPA 1998, Locomotive Emission Standards, Appendix I. Peak idling power.
2. US EPA 2009, Emission Factors for Locomotives, Table 3.
3. Provided by BNSF.

Scenario Train Parameters[1]

Train Type	Train-Trip Length (Eastbound)	Train-Trip Length (Westbound)	Daily Train Trips (Eastbound)	Daily Train Trips (Westbound)	Locomotives (Eastbound)	Locomotives (Westbound)	Locomotive Weight (Eastbound)	Locomotive Weight (Westbound)	Freight Weight (Eastbound)	Freight Weight (Westbound)	Idling Time (Non-Directional)
Units	miles/trip	miles/trip	train-trips/day	train-trips/day	loco/train	loco/train	tons/train	tons/train	tons/train	tons/train	hours/day
B-Bare Table	25.20	25.20	0.71	2.86	2.00	2.00	454.00	454.00	2344.22	2684.37	0.35
Q-Guaranteed	25.20	25.20	3.62	4.44	3.35	2.47	759.41	561.52	5887.94	5442.03	0.33
S-Stack	25.20	25.20	3.83	4.77	5.56	3.62	1262.58	821.83	9789.19	7964.85	0.78
Z-Z Trains	25.20	25.20	9.92	7.86	3.94	3.45	894.77	782.51	5592.40	5005.04	0.86
NIM-Other Non-Intermodal	25.20	25.20	5.18	5.79	2.95	3.40	670.10	772.67	5195.49	7488.44	3.02

Notes:

1. Provided By BNSF. Average daily values.

Scenario Fuel Parameters[1]

Train Type	Horsepower per Ton (HPT) (Eastbound)	Horsepower per Ton (HPT) (Westbound)	East Elevation	West Elevation	Segment Length	Grade	Grade	Train Factor	Train Factor	Fuel Efficiency (Eastbound)	Fuel Efficiency (Westbound)
Units	bhp/ton	bhp/ton	ft	ft	mi	Eastbound	Westbound	Eastbound	Westbound	ton-miles/gal	ton-miles/gal
B-Bare Table	2.50	2.00	3775	1073	25	0.020	-0.020	-0.022	-0.067	179.40	6731.05
Q-Guaranteed	2.50	2.00	3775	1073	25	0.020	-0.020	0.122	0.109	227.19	8232.62
S-Stack	2.50	2.00	3775	1073	25	0.020	-0.020	-0.126	-0.022	196.98	7414.45
Z-Z Trains	3.10	3.03	3775	1073	25	0.020	-0.020	0.083	-0.050	197.37	6200.32
NIM-Other Non-Intermodal	2.50	2.00	3775	1073	25	0.020	-0.020	-0.057	0.030	186.40	7769.06

Notes:

1. Provided By BNSF. Fuel Efficiency based on regression model from 2023 train data.

CORRIDOR EMISSION CALCULATIONS

No Project Scenario	
Analysis Year	2028

Description:

Analysis of the train movement Eastbound and Westbound for the No Project.
A composite emission factor is calculated using the MOU reported fleet mix and EPA emission factors.
Corridor parameters are daily averages provided by BNSF.
Eastbound uses in state fuel blend.
Westbound uses out-of-state fuel blend.

Out-of-State =	100%	0% RD Blend/Use	In State =	100%	1% RD Blend/Use
Out-of-State =	0% Renewable		In State =	1% Renewable	

Scenario Daily Emissions Summary

Train Type	Total Peak Daily Corridor Criteria Pollutant Emissions [1] (tons/day)						Total Peak Daily Corridor GHG Emissions [1] (metric tons/day)			
Pollutant	**PM10**	**PM2.5**	**VOC**	**NOx**	**CO**	**SOx**	**CO_2**	**N_2O**	**CH_4**	**$CO2e^2$**
Non-Affected Trains	0.035	0.034	0.065	1.663	0.419	0.001	145.3	0.0	0.0	146.6
Affected Trains	0.027	0.026	0.051	1.305	0.329	0.001	114.0	0.0	0.0	115.1
Total	0.062	0.060	0.116	2.968	0.749	0.003	259.3	0.0	0.0	261.7

Direction of Travel	Average Moving Non-Affected Trains Daily Corridor Criteria Pollutant Emissions (tons/day)						Non-Affected Trains Daily Corridor GHG Emissions (metric tons/day)			
Pollutant	**PM10**	**PM2.5**	**VOC**	**NOx**	**CO**	**SOx**	**CO_2**	**N_2O**	**CH_4**	**$CO2e^2$**
Eastbound	0.029	0.028	0.055	1.405	0.354	0.001	122.7	0.0	0.0	123.9
Westbound	0.001	0.001	0.002	0.044	0.011	0.000	3.9	0.0	0.0	3.9
Total	0.030	0.029	0.057	1.449	0.365	0.001	126.6	0.0	0.0	127.8

Direction of Travel	Average Moving Affected Trains Daily Corridor Criteria Pollutant Emissions (tons/day)						Affected Trains Daily Corridor GHG Emissions (metric tons/day)			
Pollutant	**PM10**	**PM2.5**	**VOC**	**NOx**	**CO**	**SOx**	**CO_2**	**N_2O**	**CH_4**	**$CO2e^2$**
Eastbound	0.023	0.023	0.044	1.116	0.281	0.001	97.4	0.0	0.0	98.4
Westbound	0.001	0.001	0.001	0.034	0.009	0.000	3.0	0.0	0.0	3.0
Total	0.024	0.023	0.045	1.150	0.290	0.001	100.4	0.0	0.0	101.4

Train Type	Average Idling Daily Corridor Criteria Pollutant Emissions (tons/day)						Total Idling Daily Corridor GHG Emissions (metric tons/day)			
Pollutant	**PM10**	**PM2.5**	**VOC**	**NOx**	**CO**	**SOx**	**CO_2**	**N_2O**	**CH_4**	**$CO2e^2$**
Non-Affected Trains	4.75E-04	4.61E-04	8.92E-04	2.27E-02	5.73E-03	2.02E-05	2.0	0.0	0.0	2.0
Affected Trains	1.18E-04	1.14E-04	2.21E-04	5.63E-03	1.42E-03	5.01E-06	0.5	0.0	0.0	0.5
Total	5.93E-04	5.75E-04	1.11E-03	2.84E-02	7.15E-03	2.53E-05	2.5	0.0	0.0	2.5

Notes:

1. Peak daily emissions based on 13% safety factor on average daily emissions.

2. Global warming potentials for CO2e based on Table A-1 to Subpart A of Part 98, Title 40. https://www.ecfr.gov/current/title-40/part-98/appendix-Table A-1 to Subpart A of Part 98

CORRIDOR EMISSION CALCULATIONS

Baseline Scenario	
Analysis Year	2028

Description:

Analysis of the train movement Eastbound and Westbound for the Baseline.
A composite emission factor is calculated using the MOU reported fleet mix and EPA emission factors.
Corridor parameters are daily averages for the baseline year provided by BNSF.
Eastbound uses in state fuel blend.
Westbound uses out-of-state fuel blend.

Out-of-State =	100%	0% RD Blend/Use	In State =	100%	1% RD Blend/Use
Out-of-State =	0%	Renewable	In State =	1%	Renewable

Scenario Fleet Parameters

Tier	Locomotive Inventory[1]	Locomotive Fleet Mix (%)[1]	Composite Line-Haul Criteria Pollutant Emission Factors (g/gal)						GHG (g/gal)[2]		
			PM10	PM2.5	VOC	NOx	CO	SOx	CO_2	N_2O	CH_4
Uncontrolled	0	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tier 0	0	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tier 0+	0	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tier 1	0	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tier 1+	1137	26.48%	1.10	1.07	1.93	36.91	7.05	0.02	2704.12	0.07	0.21
Tier 2	0	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tier 2+	1589	37.01%	0.62	0.60	1.21	38.11	9.85	0.03	3779.10	0.10	0.30
Tier 3	1198	27.91%	0.46	0.45	0.91	28.73	7.43	0.03	2849.19	0.07	0.22
Tier 4	369	8.60%	0.03	0.03	0.09	1.79	2.29	0.01	877.59	0.02	0.07
Total - Westbound[3]	**4,293**	**100%**	**2.21**	**2.14**	**4.14**	**105.54**	**26.62**	**0.09**	**10210**	**0.26**	**0.80**
Total - Eastbound[3]	**4,293**	**100%**	**2.20**	**2.14**	**4.13**	**105.41**	**26.58**	**0.09**	**10147**	**0.26**	**0.80**

Notes:

1. Locomotive Inventory based on 2023 CARB 98 MOU.
2. GHG emissions adjusted for 62% reduction for Carbon Intensity for any renewable diesl usage (CARB 2024).
3. Adjusted for alternative fuel blend.

CORRIDOR EMISSION CALCULATIONS

Baseline Scenario	
Analysis Year	2028

Description:

Analysis of the train movement Eastbound and Westbound for the Baseline.
A composite emission factor is calculated using the MOU reported fleet mix and EPA emission factors.
Corridor parameters are daily averages for the baseline year provided by BNSF.
Eastbound uses in state fuel blend.
Westbound uses out-of-state fuel blend.

Out-of-State =	100%	0% RD Blend/Use		In State =	100%	1% RD Blend/Use
Out-of-State =	0% Renewable			In State =	1% Renewable	

Locomotive Parameters

Locomotive Parameters	Idling Power Rating[1]	Brake Specific Fuel Consumption[2]	Weight of Locomotive Engine[3]	Weight of Fuel[3]
Units	bhp/loco	bhp-hr/gal	tons/loco	tons/loco
Value	25	20.8	209	18

Notes:

1. US EPA 1998, Locomotive Emission Standards, Appendix I. Peak idling power.
2. US EPA 2009, Emission Factors for Locomotives, Table 3.
3. Provided by BNSF.

Scenario Train Parameters[1]

Train Type	Train-Trip Length (Eastbound)	Train-Trip Length (Westbound)	Daily Train Trips (Eastbound)	Daily Train Trips (Westbound)	Locomotives (Eastbound)	Locomotives (Westbound)	Locomotive Weight (Eastbound)	Locomotive Weight (Westbound)	Freight Weight (Eastbound)	Freight Weight (Westbound)	Idling Time (Non-Directional)
Units	miles/trip	miles/trip	train-trips/day	train-trips/day	loco/train	loco/train	tons/train	tons/train	tons/train	tons/train	hours/day
B-Bare Table	56.10	56.10	0.70	2.85	2.00	2.00	454.00	454.00	2307.42	2681.37	0.14
Q-Guaranteed	56.10	56.10	3.62	4.45	3.35	2.48	759.40	562.39	5887.87	5450.50	1.03
S-Stack	56.10	56.10	3.83	4.77	5.56	3.62	1263.07	821.52	9792.95	7961.87	0.61
Z-Z Trains	56.10	56.10	9.92	7.86	3.94	3.45	894.78	782.87	5592.45	5007.35	0.45
NIM-Other Non-Intermodal	56.10	56.10	5.02	5.64	2.93	3.39	665.23	768.58	5157.71	7448.78	3.43

Notes:

1. Provided By BNSF. Average daily values.

Scenario Fuel Parameters[1]

Train Type	Horsepower per Ton (HPT) (Eastbound)	Horsepower per Ton (HPT) (Westbound)	East Elevation	West Elevation	Segment Length	Grade	Grade	Train Factor	Train Factor	Fuel Efficiency (Eastbound)	Fuel Efficiency (Westbound)
Units	bhp/ton	bhp/ton	ft	ft	mi	Eastbound	Westbound	Eastbound	Westbound	ton-miles/gal	ton-miles/gal
B-Bare Table	2.50	2.00	2117	3775	56	-0.006	0.006	-0.022	-0.067	1715.52	669.51
Q-Guaranteed	2.50	2.00	2117	3775	56	-0.006	0.006	0.122	0.109	2174.46	818.95
S-Stack	2.50	2.00	2117	3775	56	-0.006	0.006	-0.126	-0.022	1885.46	737.48
Z-Z Trains	3.10	3.03	2117	3775	56	-0.006	0.006	0.083	-0.050	1889.07	616.75
NIM-Other Non-Intermodal	2.50	2.00	2117	3775	56	-0.006	0.006	-0.057	0.030	1782.18	772.47

Notes:

1. Provided By BNSF. Fuel Efficiency based on regression model from 2023 train data.

CORRIDOR EMISSION CALCULATIONS

Baseline Scenario	
Analysis Year	2028

Description:

Analysis of the train movement Eastbound and Westbound for the Baseline.
A composite emission factor is calculated using the MOU reported fleet mix and EPA emission factors.
Corridor parameters are daily averages for the baseline year provided by BNSF.
Eastbound uses in state fuel blend.
Westbound uses out-of-state fuel blend.

Out-of-State =	100%	0% RD Blend/Use	In State =	100%	1% RD Blend/Use
Out-of-State =	0% Renewable		In State =	1% Renewable	

Scenario Daily Emissions Summary

Train Type	Total Peak Daily Corridor Criteria Pollutant Emissions [1] (tons/day)						Total Peak Daily Corridor GHG Emissions [1] (metric tons/day)			
Pollutant	PM10	PM2.5	VOC	NOx	CO	SOx	CO_2	N_2O	CH_4	$CO2e^2$
Non-Affected Trains	0.031	0.030	0.058	1.487	0.375	0.001	130.3	0.0	0.0	131.6
Affected Trains	0.024	0.023	0.045	1.155	0.291	0.001	101.2	0.0	0.0	102.2
Total	0.055	0.054	0.104	2.642	0.666	0.002	231.6	0.0	0.0	233.8

Direction of Travel	Average Moving Non-Affected Trains Daily Corridor Criteria Pollutant Emissions (tons/day)						Non-Affected Trains Daily Corridor GHG Emissions (metric tons/day)			
Pollutant	PM10	PM2.5	VOC	NOx	CO	SOx	CO_2	N_2O	CH_4	$CO2e^2$
Eastbound	0.007	0.007	0.013	0.323	0.081	0.000	28.2	0.0	0.0	28.5
Westbound	0.020	0.020	0.038	0.973	0.245	0.001	85.4	0.0	0.0	86.2
Total	0.027	0.026	0.051	1.296	0.327	0.001	113.6	0.0	0.0	114.6

Direction of Travel	Average Moving Affected Trains Daily Corridor Criteria Pollutant Emissions (tons/day)						Affected Trains Daily Corridor GHG Emissions (metric tons/day)			
Pollutant	PM10	PM2.5	VOC	NOx	CO	SOx	CO_2	N_2O	CH_4	$CO2e^2$
Eastbound	0.005	0.005	0.010	0.260	0.065	0.000	22.7	0.0	0.0	22.9
Westbound	0.016	0.015	0.030	0.756	0.191	0.001	66.3	0.0	0.0	67.0
Total	0.021	0.021	0.040	1.015	0.256	0.001	89.0	0.0	0.0	89.8

Train Type	Average Idling Daily Corridor Criteria Pollutant Emissions (tons/day)						Total Idling Daily Corridor GHG Emissions (metric tons/day)			
Pollutant	PM10	PM2.5	VOC	NOx	CO	SOx	CO_2	N_2O	CH_4	$CO2e^2$
Non-Affected Trains	4.27E-04	4.14E-04	8.01E-04	2.04E-02	5.15E-03	1.82E-05	1.8	0.0	0.0	1.8
Affected Trains	1.42E-04	1.38E-04	2.66E-04	6.79E-03	1.71E-03	6.04E-06	0.6	0.0	0.0	0.6
Total	5.69E-04	5.52E-04	1.07E-03	2.72E-02	6.86E-03	2.42E-05	2.4	0.0	0.0	2.4

Notes:

1. Peak daily emissions based on 13% safety factor on average daily emissions.

2. Global warming potentials for CO2e based on Table A-1 to Subpart A of Part 98, Title 40. https://www.ecfr.gov/current/title-40/part-98/appendix-Table A-1 to Subpart A of Part 98

CORRIDOR EMISSION CALCULATIONS

Baseline Scenario	
Analysis Year	2028

Description:

Analysis of the train movement Eastbound and Westbound for the Baseline.
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Out-of-State =	100%	0% RD Blend/Use	In State =	100%	1% RD Blend/Use
Out-of-State =	0%	Renewable	In State =	1%	Renewable

Scenario Fleet Parameters

Tier	Locomotive Inventory[1]	Locomotive Fleet Mix (%)[1]	Composite Line-Haul Criteria Pollutant Emission Factors (g/gal)						GHG (g/gal)[2]		
			PM10	PM2.5	VOC	NOx	CO	SOx	CO_2	N_2O	CH_4
Uncontrolled	0	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tier 0	0	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tier 0+	0	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tier 1	0	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tier 1+	1137	26.48%	1.10	1.07	1.93	36.91	7.05	0.02	2704.12	0.07	0.21
Tier 2	0	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tier 2+	1589	37.01%	0.62	0.60	1.21	38.11	9.85	0.03	3779.10	0.10	0.30
Tier 3	1198	27.91%	0.46	0.45	0.91	28.73	7.43	0.03	2849.19	0.07	0.22
Tier 4	369	8.60%	0.03	0.03	0.09	1.79	2.29	0.01	877.59	0.02	0.07
Total - Westbound[3]	**4,293**	**100%**	**2.21**	**2.14**	**4.14**	**105.54**	**26.62**	**0.09**	**10210**	**0.26**	**0.80**
Total - Eastbound[3]	**4,293**	**100%**	**2.20**	**2.14**	**4.13**	**105.41**	**26.58**	**0.09**	**10147**	**0.26**	**0.80**

Notes:

1. Locomotive Inventory based on 2023 CARB 98 MOU.
2. GHG emissions adjusted for 62% reduction for Carbon Intensity for any renewable diesl usage (CARB 2024).
3. Adjusted for alternative fuel blend.

CORRIDOR EMISSION CALCULATIONS

Baseline Scenario	
Analysis Year	2028

Description:

Analysis of the train movement Eastbound and Westbound for the Baseline.
A composite emission factor is calculated using the MOU reported fleet mix and EPA emission factors.
Corridor parameters are daily averages for the baseline year provided by BNSF.
Eastbound uses in state fuel blend.
Westbound uses out-of-state fuel blend.

Out-of-State =	100%	0% RD Blend/Use		In State =	100%	1% RD Blend/Use
Out-of-State =	0% Renewable			In State =	1% Renewable	

Locomotive Parameters

Locomotive Parameters	Idling Power Rating[1]	Brake Specific Fuel Consumption[2]	Weight of Locomotive Engine[3]	Weight of Fuel[3]
Units	bhp/loco	bhp-hr/gal	tons/loco	tons/loco
Value	25	20.8	209	18

Notes:

1. US EPA 1998, Locomotive Emission Standards, Appendix I. Peak idling power.
2. US EPA 2009, Emission Factors for Locomotives, Table 3.
3. Provided by BNSF.

Scenario Train Parameters[1]

Train Type	Train-Trip Length (Eastbound)	Train-Trip Length (Westbound)	Daily Train Trips (Eastbound)	Daily Train Trips (Westbound)	Locomotives (Eastbound)	Locomotives (Westbound)	Locomotive Weight (Eastbound)	Locomotive Weight (Westbound)	Freight Weight (Eastbound)	Freight Weight (Westbound)	Idling Time (Non-Directional)
Units	miles/trip	miles/trip	train-trips/day	train-trips/day	loco/train	loco/train	tons/train	tons/train	tons/train	tons/train	hours/day
B-Bare Table	167.40	167.40	0.55	1.88	2.00	2.00	454.00	454.00	2405.38	2719.81	0.19
Q-Guaranteed	167.40	167.40	5.67	5.86	2.68	2.66	609.18	603.96	5903.96	5853.32	1.00
S-Stack	167.40	167.40	3.91	4.80	4.43	3.65	1006.08	827.47	9750.60	8019.52	1.29
Z-Z Trains	167.40	167.40	12.27	10.86	3.78	3.39	857.67	770.07	5357.14	4811.96	0.83
NIM-Other Non-Intermodal	167.40	167.40	6.81	7.75	2.80	4.67	636.50	1060.69	6168.76	10279.78	2.63

Notes:

1. Provided By BNSF. Average daily values.

Scenario Fuel Parameters[1]

Train Type	Horsepower per Ton (HPT) (Eastbound)	Horsepower per Ton (HPT) (Westbound)	East Elevation	West Elevation	Segment Length	Grade	Grade	Train Factor	Train Factor	Fuel Efficiency (Eastbound)	Fuel Efficiency (Westbound)
Units	bhp/ton	bhp/ton	ft	ft	mi	Eastbound	Westbound	Eastbound	Westbound	ton-miles/gal	ton-miles/gal
B-Bare Table	2.00	2.00	490	2117	167.40	-0.002	0.002	-0.022	-0.067	356.08	594.45
Q-Guaranteed	2.00	2.00	490	2117	167	-0.002	0.002	0.122	0.109	448.84	729.83
S-Stack	2.00	2.00	490	2117	167	-0.002	0.002	-0.126	-0.022	387.65	654.95
Z-Z Trains	3.10	3.10	490	2117	167	-0.002	0.002	0.083	-0.050	358.36	541.73
NIM-Other Non-Intermodal	2.00	2.00	490	2117	167	-0.002	0.002	-0.057	0.030	377.84	705.39

Notes:

1. Provided By BNSF. Fuel Efficiency based on regression model from 2023 train data.

CORRIDOR EMISSION CALCULATIONS

Baseline Scenario	
Analysis Year	2028

Description:

Analysis of the train movement Eastbound and Westbound for the Baseline.
A composite emission factor is calculated using the MOU reported fleet mix and EPA emission factors.
Corridor parameters are daily averages for the baseline year provided by BNSF.
Eastbound uses in state fuel blend.
Westbound uses out-of-state fuel blend.

Out-of-State =	100%	0% RD Blend/Use	In State =	100%	1% RD Blend/Use
Out-of-State =	0% Renewable		In State =	1% Renewable	

Scenario Daily Emissions Summary

Train Type	Total Peak Daily Corridor Criteria Pollutant Emissions [1] (tons/day)						Total Peak Daily Corridor GHG Emissions [1] (metric tons/day)			
Pollutant	**PM10**	**PM2.5**	**VOC**	**NOx**	**CO**	**SOx**	**CO_2**	**N_2O**	**CH_4**	**$CO2e^2$**
Non-Affected Trains	0.284	0.276	0.533	13.584	3.426	0.012	1188.9	0.0	0.1	1200.3
Affected Trains	0.171	0.166	0.321	8.176	2.062	0.007	715.4	0.0	0.1	722.2
Total	0.455	0.441	0.854	21.761	5.488	0.019	1904.3	0.0	0.1	1922.5

Direction of Travel	Average Moving Non-Affected Trains Daily Corridor Criteria Pollutant Emissions (tons/day)						Non-Affected Trains Daily Corridor GHG Emissions (metric tons/day)			
Pollutant	**PM10**	**PM2.5**	**VOC**	**NOx**	**CO**	**SOx**	**CO_2**	**N_2O**	**CH_4**	**$CO2e^2$**
Eastbound	0.139	0.135	0.261	6.652	1.678	0.006	580.9	0.0	0.0	586.5
Westbound	0.112	0.108	0.210	5.339	1.347	0.005	468.6	0.0	0.0	473.1
Total	0.251	0.243	0.471	11.992	3.025	0.011	1049.5	0.0	0.1	1059.5

Direction of Travel	Average Moving Affected Trains Daily Corridor Criteria Pollutant Emissions (tons/day)						Affected Trains Daily Corridor GHG Emissions (metric tons/day)			
Pollutant	**PM10**	**PM2.5**	**VOC**	**NOx**	**CO**	**SOx**	**CO_2**	**N_2O**	**CH_4**	**$CO2e^2$**
Eastbound	0.092	0.089	0.173	4.399	1.109	0.004	384.2	0.0	0.0	387.8
Westbound	0.059	0.057	0.111	2.826	0.713	0.003	248.0	0.0	0.0	250.4
Total	0.151	0.147	0.284	7.225	1.822	0.006	632.2	0.0	0.0	638.2

Train Type	Average Idling Daily Corridor Criteria Pollutant Emissions (tons/day)						Total Idling Daily Corridor GHG Emissions (metric tons/day)			
Pollutant	**PM10**	**PM2.5**	**VOC**	**NOx**	**CO**	**SOx**	**CO_2**	**N_2O**	**CH_4**	**$CO2e^2$**
Non-Affected Trains	6.28E-04	6.09E-04	1.18E-03	3.00E-02	7.57E-03	2.67E-05	2.6	0.0	0.0	2.7
Affected Trains	2.24E-04	2.17E-04	4.20E-04	1.07E-02	2.70E-03	9.53E-06	0.9	0.0	0.0	0.9
Total	8.52E-04	8.26E-04	1.60E-03	4.07E-02	1.03E-02	3.63E-05	3.6	0.0	0.0	3.6

Notes:

1. Peak daily emissions based on 13% safety factor on average daily emissions.

2. Global warming potentials for CO2e based on Table A-1 to Subpart A of Part 98, Title 40. https://www.ecfr.gov/current/title-40/part-98/appendix-Table A-1 to Subpart A of Part 98

CORRIDOR EMISSION CALCULATIONS

Proposed Project	
Analysis Year	2028

Description:

Analysis of the train movement Eastbound and Westbound for the Proposed Project.
A composite emission factor is calculated using the MOU reported fleet mix and EPA emission factors.
Corridor parameters are daily averages provided by BNSF.
Eastbound uses in state fuel blend.
Westbound uses out-of-state fuel blend.

Out-of-State =	100%	0% RD Blend/Use		In State =	100%	10% RD Blend/Use
Out-of-State =	0%	Renewable		In State =	10%	Renewable

Scenario Fleet Parameters

Tier	Locomotive Inventory[1]	Locomotive Fleet Mix (%)[1]	Composite Line-Haul Criteria Pollutant Emission Factors (g/gal)						GHG (g/gal)[2]		
			PM10	PM2.5	VOC	NOx	CO	SOx	CO_2	N_2O	CH_4
Uncontrolled	0	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tier 0	0	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tier 0+	0	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tier 1	0	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tier 1+	1137	26.48%	1.10	1.07	1.93	36.91	7.05	0.02	2704.12	0.07	0.21
Tier 2	0	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tier 2+	1589	37.01%	0.62	0.60	1.21	38.11	9.85	0.03	3779.10	0.10	0.30
Tier 3	1198	27.91%	0.46	0.45	0.91	28.73	7.43	0.03	2849.19	0.07	0.22
Tier 4	369	8.60%	0.03	0.03	0.09	1.79	2.29	0.01	877.59	0.02	0.07
Total - Westbound[3]	**4,293**	**100%**	**2.21**	**2.14**	**4.14**	**105.54**	**26.62**	**0.09**	**10210**	**0.26**	**0.80**
Total - Eastbound[3]	**4,293**	**100%**	**2.14**	**2.08**	**4.05**	**104.26**	**26.21**	**0.09**	**9577**	**0.24**	**0.75**

Notes:

1. Locomotive Inventory based on 2023 CARB 98 MOU.
2. GHG emissions adjusted for 62% reduction for Carbon Intensity for any renewable diesl usage (CARB 2024).
3. Adjusted for alternative fuel blend.

CORRIDOR EMISSION CALCULATIONS

Proposed Project	
Analysis Year	2028

Description:

Analysis of the train movement Eastbound and Westbound for the Proposed Project.
A composite emission factor is calculated using the MOU reported fleet mix and EPA emission factors.
Corridor parameters are daily averages provided by BNSF.
Eastbound uses in state fuel blend.
Westbound uses out-of-state fuel blend.

Out-of-State =	100%	0% RD Blend/Use		In State =	100%	10% RD Blend/Use
Out-of-State =	0% Renewable			In State =	10% Renewable	

Locomotive Parameters

Locomotive Parameters	Idling Power Rating[1]	Brake Specific Fuel Consumption[2]	Weight of Locomotive Engine[3]	Weight of Fuel[3]
Units	bhp/loco	bhp-hr/gal	tons/loco	tons/loco
Value	25	20.8	209	18

Notes:

1. US EPA 1998, Locomotive Emission Standards, Appendix I. Peak idling power.
2. US EPA 2009, Emission Factors for Locomotives, Table 3.
3. Provided by BNSF.

Scenario Train Parameters[1]

Train Type	Train-Trip Length (Eastbound)	Train-Trip Length (Westbound)	Daily Train Trips (Eastbound)	Daily Train Trips (Westbound)	Locomotives (Eastbound)	Locomotives (Westbound)	Locomotive Weight (Eastbound)	Locomotive Weight (Westbound)	Freight Weight (Eastbound)	Freight Weight (Westbound)	Idling Time (Non-Directional)
Units	miles/trip	miles/trip	train-trips/day	train-trips/day	loco/train	loco/train	tons/train	tons/train	tons/train	tons/train	hours/day
B-Bare Table	65.49	66.85	0.39	2.11	2.00	2.00	454.00	454.00	2456.63	2586.85	0.35
Q-Guaranteed	67.77	65.65	2.88	3.35	3.32	2.38	754.64	541.38	5850.98	5246.88	0.41
S-Stack	86.20	86.20	3.86	4.79	5.60	3.49	1271.07	792.43	9854.98	7679.92	1.26
Z-Z Trains	65.08	65.23	5.73	4.55	3.86	3.17	875.71	720.03	5473.26	4605.37	0.89
NIM-Other Non-Intermodal	56.95	58.84	3.49	4.12	3.32	3.37	753.03	764.03	5838.46	7404.69	2.96

Notes:

1. Provided By BNSF. Average daily values.

Scenario Fuel Parameters[1]

Train Type	Horsepower per Ton (HPT) (Eastbound)	Horsepower per Ton (HPT) (Westbound)	East Elevation	West Elevation	Segment Length	Grade	Grade	Train Factor	Train Factor	Fuel Efficiency (Eastbound)	Fuel Efficiency (Westbound)
Units	bhp/ton	bhp/ton	ft	ft	mi	Eastbound	Westbound	Eastbound	Westbound	ton-miles/gal	ton-miles/gal
B-Bare Table	2.50	2.00	1073	17	112	0.002	-0.002	-0.022	-0.067	734.03	1196.11
Q-Guaranteed	2.50	2.00	1073	17	112	0.002	-0.002	0.122	0.109	902.30	1468.25
S-Stack	2.50	2.00	1073	17	112	0.002	-0.002	-0.126	-0.022	634.97	1218.87
Z-Z Trains	3.10	3.03	1073	17	112	0.002	-0.002	0.083	-0.050	806.51	1105.13
NIM-Other Non-Intermodal	2.50	2.00	1073	17	112	0.002	-0.002	-0.057	0.030	853.61	1424.61

Notes:

1. Provided By BNSF. Fuel Efficiency based on regression model from 2023 train data.

CORRIDOR EMISSION CALCULATIONS

Proposed Project	
Analysis Year	2028

Description:

Analysis of the train movement Eastbound and Westbound for the Proposed Project.
A composite emission factor is calculated using the MOU reported fleet mix and EPA emission factors.
Corridor parameters are daily averages provided by BNSF.
Eastbound uses in state fuel blend.
Westbound uses out-of-state fuel blend.

Out-of-State =	100%	0% RD Blend/Use	In State =	100%	10% RD Blend/Use
Out-of-State =	0% Renewable		In State =	10% Renewable	

Scenario Daily Emissions Summary

Train Type	Total Peak Daily Corridor Criteria Pollutant Emissions [1] (tons/day)						Total Peak Daily Corridor GHG Emissions [1] (metric tons/day)			
Pollutant	**PM10**	**PM2.5**	**VOC**	**NOx**	**CO**	**SOx**	**CO_2**	**N_2O**	**CH_4**	**$CO2e^2$**
Non-Affected Trains	0.021	0.021	0.040	1.032	0.260	0.001	90.0	0.0	0.0	90.9
Affected Trains	0.031	0.030	0.058	1.478	0.372	0.001	125.7	0.0	0.0	126.9
Total	0.052	0.050	0.098	2.510	0.632	0.002	215.7	0.0	0.0	217.7

Direction of Travel	Average Moving Non-Affected Trains Daily Corridor Criteria Pollutant Emissions (tons/day)						Non-Affected Trains Daily Corridor GHG Emissions (metric tons/day)			
Pollutant	**PM10**	**PM2.5**	**VOC**	**NOx**	**CO**	**SOx**	**CO_2**	**N_2O**	**CH_4**	**$CO2e^2$**
Eastbound	0.011	0.010	0.020	0.524	0.132	0.000	47.9	0.0	0.0	48.4
Westbound	0.008	0.008	0.015	0.375	0.095	0.000	30.4	0.0	0.0	30.7
Total	0.019	0.018	0.035	0.899	0.226	0.001	78.4	0.0	0.0	79.1

Direction of Travel	Average Moving Affected Trains Daily Corridor Criteria Pollutant Emissions (tons/day)						Affected Trains Daily Corridor GHG Emissions (metric tons/day)			
Pollutant	**PM10**	**PM2.5**	**VOC**	**NOx**	**CO**	**SOx**	**CO_2**	**N_2O**	**CH_4**	**$CO2e^2$**
Eastbound	0.016	0.016	0.031	0.794	0.200	0.001	66.2	0.0	0.0	66.8
Westbound	0.011	0.010	0.020	0.506	0.128	0.000	44.4	0.0	0.0	44.8
Total	0.027	0.026	0.051	1.300	0.327	0.001	110.5	0.0	0.0	111.6

Train Type	Average Idling Daily Corridor Criteria Pollutant Emissions (tons/day)						Total Idling Daily Corridor GHG Emissions (metric tons/day)			
Pollutant	**PM10**	**PM2.5**	**VOC**	**NOx**	**CO**	**SOx**	**CO_2**	**N_2O**	**CH_4**	**$CO2e^2$**
Non-Affected Trains	3.11E-04	3.01E-04	5.86E-04	1.50E-02	3.77E-03	1.34E-05	1.3	0.0	0.0	1.3
Affected Trains	1.65E-04	1.60E-04	3.11E-04	7.96E-03	2.00E-03	7.12E-06	0.7	0.0	0.0	0.7
Total	4.76E-04	4.61E-04	8.96E-04	2.29E-02	5.78E-03	2.05E-05	2.0	0.0	0.0	2.0

Notes: 4.59E+01

1. Peak daily emissions based on 13% safety factor on average daily emissions.

2. Global warming potentials for CO2e based on Table A-1 to Subpart A of Part 98, Title 40. https://www.ecfr.gov/current/title-40/part-98/appendix-Table A-1 to Subpart A of Part 98

CORRIDOR EMISSION CALCULATIONS

Proposed Project	
Analysis Year	2028

Description:

Analysis of the train movement Eastbound and Westbound for the Proposed Project.
A composite emission factor is calculated using the MOU reported fleet mix and EPA emission factors.
Corridor parameters are daily averages provided by BNSF.
Eastbound uses in state fuel blend.
Westbound uses out-of-state fuel blend.

Out-of-State =	100%	0%	RD Blend/Use	In State =	100%	10%	RD Blend/Use
Out-of-State =		0%	Renewable	In State =		10%	Renewable

Scenario Fleet Parameters

Tier	Locomotive Inventory[1]	Locomotive Fleet Mix (%)[1]	Composite Line-Haul Criteria Pollutant Emission Factors (g/gal)						GHG (g/gal)[2]		
			PM10	PM2.5	VOC	NOx	CO	SOx	CO_2	N_2O	CH_4
Uncontrolled	0	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tier 0	0	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tier 0+	0	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tier 1	0	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tier 1+	1137	26.48%	1.10	1.07	1.93	36.91	7.05	0.02	2704.12	0.07	0.21
Tier 2	0	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tier 2+	1589	37.01%	0.62	0.60	1.21	38.11	9.85	0.03	3779.10	0.10	0.30
Tier 3	1198	27.91%	0.46	0.45	0.91	28.73	7.43	0.03	2849.19	0.07	0.22
Tier 4	369	8.60%	0.03	0.03	0.09	1.79	2.29	0.01	877.59	0.02	0.07
Total - Westbound[3]	**4,293**	**100%**	**2.21**	**2.14**	**4.14**	**105.54**	**26.62**	**0.09**	**10210**	**0.26**	**0.80**
Total - Eastbound[3]	**4,293**	**100%**	**2.14**	**2.08**	**4.05**	**104.26**	**26.21**	**0.09**	**9577**	**0.24**	**0.75**

Notes:

1. Locomotive Inventory based on 2023 CARB 98 MOU.
2. GHG emissions adjusted for 62% reduction for Carbon Intensity for any renewable diesl usage (CARB 2024).
3. Adjusted for alternative fuel blend.

Appendix E

CORRIDOR EMISSION CALCULATIONS

Proposed Project	
Analysis Year	2028

Description:

Analysis of the train movement Eastbound and Westbound for the Proposed Project.
A composite emission factor is calculated using the MOU reported fleet mix and EPA emission factors.
Corridor parameters are daily averages provided by BNSF.
Eastbound uses in state fuel blend.
Westbound uses out-of-state fuel blend.

Out-of-State =	100%	0% RD Blend/Use		In State =	100%	10% RD Blend/Use
Out-of-State =	0% Renewable			In State =	10% Renewable	

Locomotive Parameters

Locomotive Parameters	Idling Power Rating[1]	Brake Specific Fuel Consumption[2]	Weight of Locomotive Engine[3]	Weight of Fuel[3]
Units	bhp/loco	bhp-hr/gal	tons/loco	tons/loco
Value	25	20.8	209	18

Notes:

1. US EPA 1998, Locomotive Emission Standards, Appendix I. Peak idling power.
2. US EPA 2009, Emission Factors for Locomotives, Table 3.
3. Provided by BNSF.

Scenario Train Parameters[1]

Train Type	Train-Trip Length (Eastbound)	Train-Trip Length (Westbound)	Daily Train Trips (Eastbound)	Daily Train Trips (Westbound)	Locomotives (Eastbound)	Locomotives (Westbound)	Locomotive Weight (Eastbound)	Locomotive Weight (Westbound)	Freight Weight (Eastbound)	Freight Weight (Westbound)	Idling Time (Non-Directional)
Units	miles/trip	miles/trip	train-trips/day	train-trips/day	loco/train	loco/train	tons/train	tons/train	tons/train	tons/train	hours/day
B-Bare Table	25.20	25.20	0.71	2.86	2.00	2.00	454.00	454.00	2344.22	2684.37	0.35
Q-Guaranteed	25.20	25.20	3.38	4.16	3.35	2.47	759.41	561.52	5887.94	5442.03	0.41
S-Stack	25.20	25.20	3.83	4.77	5.56	3.62	1262.58	821.83	9789.19	7964.85	1.26
Z-Z Trains	25.20	25.20	9.92	7.86	3.94	3.45	894.77	782.51	5592.40	5005.04	0.89
NIM-Other Non-Intermodal	25.20	25.20	5.18	5.79	2.95	3.40	670.10	772.67	5195.49	7488.44	2.96

Notes:

1. Provided By BNSF. Average daily values.

Scenario Fuel Parameters[1]

Train Type	Horsepower per Ton (HPT) (Eastbound)	Horsepower per Ton (HPT) (Westbound)	East Elevation	West Elevation	Segment Length	Grade	Grade	Train Factor	Train Factor	Fuel Efficiency (Eastbound)	Fuel Efficiency (Westbound)
Units	bhp/ton	bhp/ton	ft	ft	mi	Eastbound	Westbound	Eastbound	Westbound	ton-miles/gal	ton-miles/gal
B-Bare Table	2.50	2.00	3775	1073	25	0.020	-0.020	-0.022	-0.067	179.40	6731.05
Q-Guaranteed	2.50	2.00	3775	1073	25	0.020	-0.020	0.122	0.109	227.19	8232.62
S-Stack	2.50	2.00	3775	1073	25	0.020	-0.020	-0.126	-0.022	196.98	7414.45
Z-Z Trains	3.10	3.03	3775	1073	25	0.020	-0.020	0.083	-0.050	197.37	6200.32
NIM-Other Non-Intermodal	2.50	2.00	3775	1073	25	0.020	-0.020	-0.057	0.030	186.40	7769.06

Notes:

1. Provided By BNSF. Fuel Efficiency based on regression model from 2023 train data.

CORRIDOR EMISSION CALCULATIONS

Proposed Project	
Analysis Year	2028

Description:

Analysis of the train movement Eastbound and Westbound for the Proposed Project.
A composite emission factor is calculated using the MOU reported fleet mix and EPA emission factors.
Corridor parameters are daily averages provided by BNSF.
Eastbound uses in state fuel blend.
Westbound uses out-of-state fuel blend.

Out-of-State =	100%	0% RD Blend/Use	In State =	100%	10% RD Blend/Use
Out-of-State =	0% Renewable		In State =	10% Renewable	

Scenario Daily Emissions Summary

Train Type	Total Peak Daily Corridor Criteria Pollutant Emissions [1] (tons/day)						Total Peak Daily Corridor GHG Emissions [1] (metric tons/day)			
Pollutant	**PM10**	**PM2.5**	**VOC**	**NOx**	**CO**	**SOx**	**CO_2**	**N_2O**	**CH_4**	**$CO2e^2$**
Non-Affected Trains	0.034	0.033	0.064	1.646	0.414	0.001	150.2	0.0	0.0	151.6
Affected Trains	0.026	0.025	0.049	1.265	0.318	0.001	105.6	0.0	0.0	106.6
Total	0.060	0.058	0.113	2.911	0.732	0.003	255.8	0.0	0.0	258.2

Direction of Travel	Average Moving Non-Affected Trains Daily Corridor Criteria Pollutant Emissions (tons/day)						Non-Affected Trains Daily Corridor GHG Emissions (metric tons/day)			
Pollutant	**PM10**	**PM2.5**	**VOC**	**NOx**	**CO**	**SOx**	**CO_2**	**N_2O**	**CH_4**	**$CO2e^2$**
Eastbound	0.029	0.028	0.054	1.390	0.349	0.001	127.4	0.0	0.0	128.6
Westbound	0.001	0.001	0.002	0.044	0.011	0.000	3.6	0.0	0.0	3.6
Total	0.029	0.029	0.056	1.434	0.360	0.001	131.0	0.0	0.0	132.2

Direction of Travel	Average Moving Affected Trains Daily Corridor Criteria Pollutant Emissions (tons/day)						Affected Trains Daily Corridor GHG Emissions (metric tons/day)			
Pollutant	**PM10**	**PM2.5**	**VOC**	**NOx**	**CO**	**SOx**	**CO_2**	**N_2O**	**CH_4**	**$CO2e^2$**
Eastbound	0.022	0.021	0.042	1.078	0.271	0.001	89.9	0.0	0.0	90.7
Westbound	0.001	0.001	0.001	0.033	0.008	0.000	2.9	0.0	0.0	2.9
Total	0.023	0.022	0.043	1.111	0.279	0.001	92.8	0.0	0.0	93.6

Train Type	Average Idling Daily Corridor Criteria Pollutant Emissions (tons/day)						Total Idling Daily Corridor GHG Emissions (metric tons/day)			
Pollutant	**PM10**	**PM2.5**	**VOC**	**NOx**	**CO**	**SOx**	**CO_2**	**N_2O**	**CH_4**	**$CO2e^2$**
Non-Affected Trains	4.68E-04	4.54E-04	8.82E-04	2.26E-02	5.69E-03	2.02E-05	1.9	0.0	0.0	2.0
Affected Trains	1.73E-04	1.67E-04	3.25E-04	8.33E-03	2.10E-03	7.45E-06	0.7	0.0	0.0	0.7
Total	6.41E-04	6.22E-04	1.21E-03	3.09E-02	7.78E-03	2.77E-05	2.6	0.0	0.0	2.7

Notes: 6.18E+01

1. Peak daily emissions based on 13% safety factor on average daily emissions.

2. Global warming potentials for CO2e based on Table A-1 to Subpart A of Part 98, Title 40. https://www.ecfr.gov/current/title-40/part-98/appendix-Table A-1 to Subpart A of Part 98

CORRIDOR EMISSION CALCULATIONS

Proposed Project	
Analysis Year	2028

Description:

Analysis of the train movement Eastbound and Westbound for the Proposed Project.
A composite emission factor is calculated using the MOU reported fleet mix and EPA emission factors.
Corridor parameters are daily averages provided by BNSF.
Eastbound uses in state fuel blend.
Westbound uses out-of-state fuel blend.

Out-of-State =	100%	0%	RD Blend/Use	In State =	100%	10%	RD Blend/Use
Out-of-State =	0%	Renewable		In State =	10%	Renewable	

Scenario Fleet Parameters

Tier	Locomotive Inventory[1]	Locomotive Fleet Mix (%)[1]	Composite Line-Haul Criteria Pollutant Emission Factors (g/gal)						GHG (g/gal)[2]		
			PM10	PM2.5	VOC	NOx	CO	SOx	CO_2	N_2O	CH_4
Uncontrolled	0	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tier 0	0	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tier 0+	0	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tier 1	0	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tier 1+	1137	26.48%	1.10	1.07	1.93	36.91	7.05	0.02	2704.12	0.07	0.21
Tier 2	0	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tier 2+	1589	37.01%	0.62	0.60	1.21	38.11	9.85	0.03	3779.10	0.10	0.30
Tier 3	1198	27.91%	0.46	0.45	0.91	28.73	7.43	0.03	2849.19	0.07	0.22
Tier 4	369	8.60%	0.03	0.03	0.09	1.79	2.29	0.01	877.59	0.02	0.07
Total - Westbound[3]	**4,293**	**100%**	**2.21**	**2.14**	**4.14**	**105.54**	**26.62**	**0.09**	**10210**	**0.26**	**0.80**
Total - Eastbound[3]	**4,293**	**100%**	**2.14**	**2.08**	**4.05**	**104.26**	**26.21**	**0.09**	**9577**	**0.24**	**0.75**

Notes:

1. Locomotive Inventory based on 2023 CARB 98 MOU.
2. GHG emissions adjusted for 62% reduction for Carbon Intensity for any renewable diesl usage (CARB 2024).
3. Adjusted for alternative fuel blend.

CORRIDOR EMISSION CALCULATIONS

Proposed Project	
Analysis Year	2028

Description:

Analysis of the train movement Eastbound and Westbound for the Proposed Project.
A composite emission factor is calculated using the MOU reported fleet mix and EPA emission factors.
Corridor parameters are daily averages provided by BNSF.
Eastbound uses in state fuel blend.
Westbound uses out-of-state fuel blend.

Out-of-State =	100%	0% RD Blend/Use		In State =	100%	10% RD Blend/Use
Out-of-State =	0% Renewable			In State =	10% Renewable	

Locomotive Parameters

Locomotive Parameters	Idling Power Rating[1]	Brake Specific Fuel Consumption[2]	Weight of Locomotive Engine[3]	Weight of Fuel[3]
Units	bhp/loco	bhp-hr/gal	tons/loco	tons/loco
Value	25	20.8	209	18

Notes:

1. US EPA 1998, Locomotive Emission Standards, Appendix I. Peak idling power.
2. US EPA 2009, Emission Factors for Locomotives, Table 3.
3. Provided by BNSF.

Scenario Train Parameters[1]

Train Type	Train-Trip Length (Eastbound)	Train-Trip Length (Westbound)	Daily Train Trips (Eastbound)	Daily Train Trips (Westbound)	Locomotives (Eastbound)	Locomotives (Westbound)	Locomotive Weight (Eastbound)	Locomotive Weight (Westbound)	Freight Weight (Eastbound)	Freight Weight (Westbound)	Idling Time (Non-Directional)
Units	miles/trip	miles/trip	train-trips/day	train-trips/day	loco/train	loco/train	tons/train	tons/train	tons/train	tons/train	hours/day
B-Bare Table	56.10	56.10	0.70	2.85	2.00	2.00	454.00	454.00	2307.42	2681.37	0.15
Q-Guaranteed	56.10	56.10	3.38	4.16	3.35	2.48	759.40	562.39	5887.87	5450.50	0.45
S-Stack	56.10	56.10	3.83	4.77	5.56	3.62	1263.07	821.52	9792.95	7961.87	0.67
Z-Z Trains	56.10	56.10	9.92	7.86	3.94	3.45	894.78	782.87	5592.45	5007.35	0.35
NIM-Other Non-Intermodal	56.10	56.10	5.02	5.64	2.93	3.39	665.23	768.58	5157.71	7448.78	3.48

Notes:

1. Provided By BNSF. Average daily values.

Scenario Fuel Parameters[1]

Train Type	Horsepower per Ton (HPT) (Eastbound)	Horsepower per Ton (HPT) (Westbound)	East Elevation	West Elevation	Segment Length	Grade	Grade	Train Factor	Train Factor	Fuel Efficiency (Eastbound)	Fuel Efficiency (Westbound)
Units	bhp/ton	bhp/ton	ft	ft	mi	Eastbound	Westbound	Eastbound	Westbound	ton-miles/gal	ton-miles/gal
B-Bare Table	2.50	2.00	2117	3775	56	-0.006	0.006	-0.022	-0.067	1715.52	669.51
Q-Guaranteed	2.50	2.00	2117	3775	56	-0.006	0.006	0.122	0.109	2174.46	818.95
S-Stack	2.50	2.00	2117	3775	56	-0.006	0.006	-0.126	-0.022	1885.46	737.48
Z-Z Trains	3.10	3.03	2117	3775	56	-0.006	0.006	0.083	-0.050	1889.07	616.75
NIM-Other Non-Intermodal	2.50	2.00	2117	3775	56	-0.006	0.006	-0.057	0.030	1782.18	772.47

Notes:

1. Provided By BNSF. Fuel Efficiency based on regression model from 2023 train data.

CORRIDOR EMISSION CALCULATIONS

Proposed Project	
Analysis Year	2028

Description:

Analysis of the train movement Eastbound and Westbound for the Proposed Project.
A composite emission factor is calculated using the MOU reported fleet mix and EPA emission factors.
Corridor parameters are daily averages provided by BNSF.
Eastbound uses in state fuel blend.
Westbound uses out-of-state fuel blend.

Out-of-State =	100%	0% RD Blend/Use	In State =	100%	10% RD Blend/Use
Out-of-State =	0% Renewable		In State =	10% Renewable	

Scenario Daily Emissions Summary

Train Type	Total Peak Daily Corridor Criteria Pollutant Emissions [1] (tons/day)						Total Peak Daily Corridor GHG Emissions [1] (metric tons/day)			
Pollutant	**PM10**	**PM2.5**	**VOC**	**NOx**	**CO**	**SOx**	**CO_2**	**N_2O**	**CH_4**	**$CO2e^2$**
Non-Affected Trains	0.031	0.030	0.058	1.482	0.374	0.001	128.4	0.0	0.0	129.6
Affected Trains	0.023	0.023	0.044	1.124	0.283	0.001	97.4	0.0	0.0	98.3
Total	0.054	0.053	0.102	2.606	0.657	0.002	225.8	0.0	0.0	228.0

Direction of Travel	Average Moving Non-Affected Trains Daily Corridor Criteria Pollutant Emissions (tons/day)						Non-Affected Trains Daily Corridor GHG Emissions (metric tons/day)			
Pollutant	**PM10**	**PM2.5**	**VOC**	**NOx**	**CO**	**SOx**	**CO_2**	**N_2O**	**CH_4**	**$CO2e^2$**
Eastbound	0.007	0.006	0.012	0.319	0.080	0.000	26.6	0.0	0.0	26.9
Westbound	0.020	0.020	0.038	0.973	0.245	0.001	85.4	0.0	0.0	86.2
Total	0.027	0.026	0.051	1.292	0.326	0.001	112.0	0.0	0.0	113.0

Direction of Travel	Average Moving Affected Trains Daily Corridor Criteria Pollutant Emissions (tons/day)						Affected Trains Daily Corridor GHG Emissions (metric tons/day)			
Pollutant	**PM10**	**PM2.5**	**VOC**	**NOx**	**CO**	**SOx**	**CO_2**	**N_2O**	**CH_4**	**$CO2e^2$**
Eastbound	0.005	0.005	0.010	0.251	0.063	0.000	20.9	0.0	0.0	21.1
Westbound	0.015	0.015	0.029	0.739	0.186	0.001	64.8	0.0	0.0	65.5
Total	0.021	0.020	0.039	0.990	0.249	0.001	85.7	0.0	0.0	86.6

Train Type	Average Idling Daily Corridor Criteria Pollutant Emissions (tons/day)						Total Idling Daily Corridor GHG Emissions (metric tons/day)			
Pollutant	**PM10**	**PM2.5**	**VOC**	**NOx**	**CO**	**SOx**	**CO_2**	**N_2O**	**CH_4**	**$CO2e^2$**
Non-Affected Trains	4.05E-04	3.93E-04	7.64E-04	1.95E-02	4.92E-03	1.75E-05	1.7	0.0	0.0	1.7
Affected Trains	1.06E-04	1.02E-04	1.99E-04	5.09E-03	1.28E-03	4.56E-06	0.4	0.0	0.0	0.4
Total	5.11E-04	4.96E-04	9.63E-04	2.46E-02	6.20E-03	2.21E-05	2.1	0.0	0.0	2.1

Notes:

1. Peak daily emissions based on 13% safety factor on average daily emissions.

2. Global warming potentials for CO2e based on Table A-1 to Subpart A of Part 98, Title 40. https://www.ecfr.gov/current/title-40/part-98/appendix-Table A-1 to Subpart A of Part 98

CORRIDOR EMISSION CALCULATIONS

Proposed Project	
Analysis Year	2028

Description:

Analysis of the train movement Eastbound and Westbound for the Proposed Project.
A composite emission factor is calculated using the MOU reported fleet mix and EPA emission factors.
Corridor parameters are daily averages provided by BNSF.

Eastbound uses in state fuel blend.
Westbound uses out-of-state fuel blend.

Out-of-State =	100%	0%	RD Blend/Use	In State =	100%	10%	RD Blend/Use
Out-of-State =	0%	Renewable		In State =	10%	Renewable	

Scenario Fleet Parameters

Tier	Locomotive Inventory[1]	Locomotive Fleet Mix (%)[1]	Composite Line-Haul Criteria Pollutant Emission Factors (g/gal)						GHG (g/gal)[2]		
			PM10	PM2.5	VOC	NOx	CO	SOx	CO_2	N_2O	CH_4
Uncontrolled	0	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tier 0	0	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tier 0+	0	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tier 1	0	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tier 1+	1137	26.48%	1.10	1.07	1.93	36.91	7.05	0.02	2704.12	0.07	0.21
Tier 2	0	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tier 2+	1589	37.01%	0.62	0.60	1.21	38.11	9.85	0.03	3779.10	0.10	0.30
Tier 3	1198	27.91%	0.46	0.45	0.91	28.73	7.43	0.03	2849.19	0.07	0.22
Tier 4	369	8.60%	0.03	0.03	0.09	1.79	2.29	0.01	877.59	0.02	0.07
Total - Westbound[3]	**4,293**	**100%**	**2.21**	**2.14**	**4.14**	**105.54**	**26.62**	**0.09**	**10210**	**0.26**	**0.80**
Total - Eastbound[3]	**4,293**	**100%**	**2.14**	**2.08**	**4.05**	**104.26**	**26.21**	**0.09**	**9577**	**0.24**	**0.75**

Notes:

1. Locomotive Inventory based on 2023 CARB 98 MOU.
2. GHG emissions adjusted for 62% reduction for Carbon Intensity for any renewable diesl usage (CARB 2024).
3. Adjusted for alternative fuel blend.

CORRIDOR EMISSION CALCULATIONS

Proposed Project	
Analysis Year	2028

Description:

Analysis of the train movement Eastbound and Westbound for the Proposed Project.
A composite emission factor is calculated using the MOU reported fleet mix and EPA emission factors.
Corridor parameters are daily averages provided by BNSF.
Eastbound uses in state fuel blend.
Westbound uses out-of-state fuel blend.

Out-of-State =	100%	0%	RD Blend/Use	In State =	100%	10%	RD Blend/Use
Out-of-State =	0%	Renewable		In State =	10%	Renewable	

Locomotive Parameters

Locomotive Parameters	Idling Power Rating[1]	Brake Specific Fuel Consumption[2]	Weight of Locomotive Engine[3]	Weight of Fuel[3]
Units	bhp/loco	bhp-hr/gal	tons/loco	tons/loco
Value	25	20.8	209	18

Notes:

1. US EPA 1998, Locomotive Emission Standards, Appendix I. Peak idling power.
2. US EPA 2009, Emission Factors for Locomotives, Table 3.
3. Provided by BNSF.

Scenario Train Parameters[1]

Train Type	Train-Trip Length (Eastbound)	Train-Trip Length (Westbound)	Daily Train Trips (Eastbound)	Daily Train Trips (Westbound)	Locomotives (Eastbound)	Locomotives (Westbound)	Locomotive Weight (Eastbound)	Locomotive Weight (Westbound)	Freight Weight (Eastbound)	Freight Weight (Westbound)	Idling Time (Non-Directional)
Units	miles/trip	miles/trip	train-trips/day	train-trips/day	loco/train	loco/train	tons/train	tons/train	tons/train	tons/train	hours/day
B-Bare Table	167.40	167.40	0.55	1.88	2.00	2.00	454.00	454.00	2405.38	2719.81	0.52
Q-Guaranteed	167.40	167.40	7.72	7.98	2.68	2.66	609.18	603.96	5903.96	5853.32	0.92
S-Stack	167.40	167.40	3.91	4.80	4.43	3.65	1006.08	827.47	9750.60	8019.52	1.16
Z-Z Trains	167.40	167.40	12.27	10.86	3.78	3.39	857.67	770.07	5357.14	4811.96	0.94
NIM-Other Non-Intermodal	167.40	167.40	6.81	7.75	2.80	4.67	636.50	1060.69	6168.76	10279.78	2.69

Notes:

1. Provided By BNSF. Average daily values.

Scenario Fuel Parameters[1]

Train Type	Horsepower per Ton (HPT) (Eastbound)	Horsepower per Ton (HPT) (Westbound)	East Elevation	West Elevation	Segment Length	Grade	Grade	Train Factor	Train Factor	Fuel Efficiency (Eastbound)	Fuel Efficiency (Westbound)
Units	bhp/ton	bhp/ton	ft	ft	mi	Eastbound	Westbound	Eastbound	Westbound	ton-miles/gal	ton-miles/gal
B-Bare Table	2.00	2.00	490	2117	167.40	-0.002	0.002	-0.022	-0.067	356.08	594.45
Q-Guaranteed	2.00	2.00	490	2117	167.40	-0.002	0.002	0.122	0.109	448.84	729.83
S-Stack	2.00	2.00	490	2117	167.40	-0.002	0.002	-0.126	-0.022	387.65	654.95
Z-Z Trains	3.10	3.10	490	2117	167.40	-0.002	0.002	0.083	-0.050	358.36	541.73
NIM-Other Non-Intermodal	2.00	2.00	490	2117	167.40	-0.002	0.002	-0.057	0.030	377.84	705.39

Notes:

1. Provided By BNSF. Fuel Efficiency based on regression model from 2023 train data.

CORRIDOR EMISSION CALCULATIONS

Proposed Project	
Analysis Year	2028

Description:

Analysis of the train movement Eastbound and Westbound for the Proposed Project.
A composite emission factor is calculated using the MOU reported fleet mix and EPA emission factors.
Corridor parameters are daily averages provided by BNSF.
Eastbound uses in state fuel blend.
Westbound uses out-of-state fuel blend.

Out-of-State =	100%	0% RD Blend/Use	In State =	100%	10% RD Blend/Use
Out-of-State =	0% Renewable		In State =	10% Renewable	

Scenario Daily Emissions Summary

Train Type	Total Peak Daily Corridor Criteria Pollutant Emissions [1] (tons/day)						Total Peak Daily Corridor GHG Emissions [1] (metric tons/day)			
Pollutant	**PM10**	**PM2.5**	**VOC**	**NOx**	**CO**	**SOx**	**CO_2**	**N_2O**	**CH_4**	**$CO2e^2$**
Non-Affected Trains	0.280	0.271	0.527	13.504	3.400	0.012	1152.1	0.0	0.1	1163.1
Affected Trains	0.196	0.190	0.369	9.448	2.378	0.008	803.8	0.0	0.1	811.4
Total	0.475	0.461	0.896	22.952	5.778	0.021	1955.9	0.0	0.2	1974.6

Direction of Travel	Average Moving Non-Affected Trains Daily Corridor Criteria Pollutant Emissions (tons/day)						Non-Affected Trains Daily Corridor GHG Emissions (metric tons/day)			
Pollutant	**PM10**	**PM2.5**	**VOC**	**NOx**	**CO**	**SOx**	**CO_2**	**N_2O**	**CH_4**	**$CO2e^2$**
Eastbound	0.135	0.131	0.256	6.580	1.654	0.006	548.3	0.0	0.0	553.5
Westbound	0.112	0.108	0.210	5.339	1.347	0.005	468.6	0.0	0.0	473.1
Total	0.247	0.239	0.465	11.919	3.001	0.011	1016.9	0.0	0.1	1026.6

Direction of Travel	Average Moving Affected Trains Daily Corridor Criteria Pollutant Emissions (tons/day)						Affected Trains Daily Corridor GHG Emissions (metric tons/day)			
Pollutant	**PM10**	**PM2.5**	**VOC**	**NOx**	**CO**	**SOx**	**CO_2**	**N_2O**	**CH_4**	**$CO2e^2$**
Eastbound	0.104	0.101	0.197	5.075	1.276	0.005	422.9	0.0	0.0	426.9
Westbound	0.069	0.066	0.129	3.275	0.826	0.003	287.5	0.0	0.0	290.2
Total	0.173	0.168	0.326	8.350	2.102	0.007	710.3	0.0	0.1	717.1

Train Type	Average Idling Daily Corridor Criteria Pollutant Emissions (tons/day)						Total Idling Daily Corridor GHG Emissions (metric tons/day)			
Pollutant	**PM10**	**PM2.5**	**VOC**	**NOx**	**CO**	**SOx**	**CO_2**	**N_2O**	**CH_4**	**$CO2e^2$**
Non-Affected Trains	6.55E-04	6.35E-04	1.23E-03	3.16E-02	7.95E-03	2.83E-05	2.7	0.0	0.0	2.7
Affected Trains	2.35E-04	2.28E-04	4.43E-04	1.13E-02	2.85E-03	1.01E-05	1.0	0.0	0.0	1.0
Total	8.90E-04	8.63E-04	1.68E-03	4.29E-02	1.08E-02	3.84E-05	3.7	0.0	0.0	3.7

Notes:

1. Peak daily emissions based on 13% safety factor on average daily emissions.

2. Global warming potentials for CO2e based on Table A-1 to Subpart A of Part 98, Title 40. https://www.ecfr.gov/current/title-40/part-98/appendix-Table A-1 to Subpart A of Part 98

CORRIDOR EMISSION CALCULATIONS

Proposed Project	
Analysis Year	2028

Description:

Analysis of the train movement Eastbound and Westbound for the Proposed Project Dedicated Fleet.
A composite emission factor is calculated using the MOU reported fleet mix and EPA emission factors.
Corridor parameters are daily averages provided by BNSF.
Eastbound uses in state fuel blend.
Westbound uses out-of-state fuel blend.

Out-of-State =	100%	0%	RD Blend/Use	In State =	100%	10%	RD Blend/Use
Out-of-State =	0%	Renewable		In State =	10%	Renewable	

Scenario Fleet Parameters

Tier	Locomotive Inventory[1]	Locomotive Fleet Mix (%)[1]	Composite Line-Haul Criteria Pollutant Emission Factors (g/gal)						GHG (g/gal)[2]		
			PM10	PM2.5	VOC	NOx	CO	SOx	CO_2	N_2O	CH_4
Uncontrolled	0	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tier 0	0	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tier 0+	0	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tier 1	0	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tier 1+	0	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tier 2	0	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tier 2+	0	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tier 3	0	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tier 4	30	100.00%	0.31	0.30	1.01	20.80	26.62	0.09	10210.00	0.26	0.80
Total - Westbound[3]	**30**	**100%**	**0.31**	**0.30**	**1.01**	**20.80**	**26.62**	**0.09**	**10210**	**0.26**	**0.80**
Total - Eastbound[3]	**30**	**100%**	**0.30**	**0.29**	**0.98**	**20.55**	**26.21**	**0.09**	**9577**	**0.24**	**0.75**

Notes:

1. Locomotive Inventory based on 2023 CARB 98 MOU.
2. GHG emissions adjusted for 62% reduction for Carbon Intensity for any renewable diesl usage (CARB 2024).
3. Adjusted for alternative fuel blend.

CORRIDOR EMISSION CALCULATIONS

Proposed Project	
Analysis Year	2028

Description:

Analysis of the train movement Eastbound and Westbound for the Proposed Project Dedicated Fleet.
A composite emission factor is calculated using the MOU reported fleet mix and EPA emission factors.
Corridor parameters are daily averages provided by BNSF.
Eastbound uses in state fuel blend.
Westbound uses out-of-state fuel blend.

Out-of-State =	100%	0%	RD Blend/Use	In State =	100%	10%	RD Blend/Use
Out-of-State =	0%	Renewable		In State =	10%	Renewable	

Locomotive Parameters

Locomotive Parameters	Idling Power Rating[1]	Brake Specific Fuel Consumption[2]	Weight of Locomotive Engine[3]	Weight of Fuel[3]
Units	bhp/loco	bhp-hr/gal	tons/loco	tons/loco
Value	25	20.8	209	18

Notes:

1. US EPA 1998, Locomotive Emission Standards, Appendix I. Peak idling power.
2. US EPA 2009, Emission Factors for Locomotives, Table 3.
3. Provided by BNSF.

Scenario Train Parameters[1]

Train Type	Train-Trip Length (Eastbound)	Train-Trip Length (Westbound)	Daily Train Trips (Eastbound)	Daily Train Trips (Westbound)	Locomotives (Eastbound)	Locomotives (Westbound)	Locomotive Weight (Eastbound)	Locomotive Weight (Westbound)	Freight Weight (Eastbound)	Freight Weight (Westbound)	Idling Time (Non-Directional)
Units	miles/trip	miles/trip	train-trips/day	train-trips/day	loco/train	loco/train	tons/train	tons/train	tons/train	tons/train	hours/day
S-BAR6	86.20	86.20	1.45	1.80	5.60	3.49	1271.07	792.43	9854.98	7679.92	1.26

Notes:

1. Provided By BNSF. Average daily values.

Scenario Fuel Parameters[1]

Train Type	Horsepower per Ton (HPT) (Eastbound)	Horsepower per Ton (HPT) (Westbound)	East Elevation	West Elevation	Segment Length	Grade	Grade	Train Factor	Train Factor	Fuel Efficiency (Eastbound)	Fuel Efficiency (Westbound)
Units	bhp/ton	bhp/ton	ft	ft	mi	Eastbound	Westbound	Eastbound	Westbound	ton-miles/gal	ton-miles/gal
S-BAR6	2.50	2.00	1073	17	112	0.002	-0.002	-0.126	-0.022	634.97	1218.87

Notes:

1. Provided By BNSF. Fuel Efficiency based on regression model from 2023 train data.

CORRIDOR EMISSION CALCULATIONS

Proposed Project	
Analysis Year	2028

Description:

Analysis of the train movement Eastbound and Westbound for the Proposed Project Dedicated Fleet.
A composite emission factor is calculated using the MOU reported fleet mix and EPA emission factors.
Corridor parameters are daily averages provided by BNSF.
Eastbound uses in state fuel blend.
Westbound uses out-of-state fuel blend.

Out-of-State =	100%	0% RD Blend/Use		In State =	100%	10% RD Blend/Use
Out-of-State =	0% Renewable			In State =	10% Renewable	

Scenario Daily Emissions Summary

Train Type	Total Peak Daily Corridor Criteria Pollutant Emissions [1] (tons/day)						Total Peak Daily Corridor GHG Emissions [1] (metric tons/day)			
Pollutant	**PM10**	**PM2.5**	**VOC**	**NOx**	**CO**	**SOx**	**CO_2**	**N_2O**	**CH_4**	**$CO2e^2$**
Non-Affected Trains	0.000	0.000	0.000	0.000	0.000	0.000	0.0	0.0	0.0	0.0
Affected Trains	0.001	0.001	0.004	0.085	0.108	0.000	36.4	0.0	0.0	36.8
Total	0.001	0.001	0.004	0.085	0.108	0.000	36.4	0.0	0.0	36.8

Direction of Travel	Average Moving Non-Affected Trains Daily Corridor Criteria Pollutant Emissions (tons/day)						Non-Affected Trains Daily Corridor GHG Emissions (metric tons/day)			
Pollutant	**PM10**	**PM2.5**	**VOC**	**NOx**	**CO**	**SOx**	**CO_2**	**N_2O**	**CH_4**	**$CO2e^2$**
Eastbound	0.000	0.000	0.000	0.000	0.000	0.000	0.0	0.0	0.0	0.0
Westbound	0.000	0.000	0.000	0.000	0.000	0.000	0.0	0.0	0.0	0.0
Total	0.000	0.000	0.000	0.000	0.000	0.000	0.0	0.0	0.0	0.0

Direction of Travel	Average Moving Affected Trains Daily Corridor Criteria Pollutant Emissions (tons/day)						Affected Trains Daily Corridor GHG Emissions (metric tons/day)			
Pollutant	**PM10**	**PM2.5**	**VOC**	**NOx**	**CO**	**SOx**	**CO_2**	**N_2O**	**CH_4**	**$CO2e^2$**
Eastbound	0.001	0.001	0.002	0.050	0.063	0.000	21.0	0.0	0.0	21.2
Westbound	0.000	0.000	0.001	0.025	0.032	0.000	11.0	0.0	0.0	11.1
Total	0.001	0.001	0.004	0.074	0.095	0.000	32.0	0.0	0.0	32.3

Train Type	Average Idling Daily Corridor Criteria Pollutant Emissions (tons/day)						Total Idling Daily Corridor GHG Emissions (metric tons/day)			
Pollutant	**PM10**	**PM2.5**	**VOC**	**NOx**	**CO**	**SOx**	**CO_2**	**N_2O**	**CH_4**	**$CO2e^2$**
Non-Affected Trains	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.0	0.0	0.0	0.0
Affected Trains	7.39E-06	7.16E-06	2.39E-05	4.97E-04	6.35E-04	2.26E-06	0.2	0.0	0.0	0.2
Total	7.39E-06	7.16E-06	2.39E-05	4.97E-04	6.35E-04	2.26E-06	0.2	0.0	0.0	0.2

Notes:

1. Peak daily emissions based on 13% safety factor on average daily emissions.

2. Global warming potentials for CO2e based on Table A-1 to Subpart A of Part 98, Title 40. https://www.ecfr.gov/current/title-40/part-98/appendix-Table A-1 to Subpart A of Part 98

CORRIDOR EMISSION CALCULATIONS

Proposed Project	
Analysis Year	2028

Description:

Analysis of the train movement Eastbound and Westbound for the Proposed Project Dedicated Fleet.
A composite emission factor is calculated using the MOU reported fleet mix and EPA emission factors.
Corridor parameters are daily averages provided by BNSF.
Eastbound uses in state fuel blend.
Westbound uses out-of-state fuel blend.

Out-of-State =	100%	0%	RD Blend/Use	In State =	100%	10%	RD Blend/Use
Out-of-State =	0%	Renewable		In State =	10%	Renewable	

Scenario Fleet Parameters

Tier	Locomotive Inventory[1]	Locomotive Fleet Mix (%)[1]	Composite Line-Haul Criteria Pollutant Emission Factors (g/gal)						GHG (g/gal)[2]		
			PM10	PM2.5	VOC	NOx	CO	SOx	CO_2	N_2O	CH_4
Uncontrolled	0	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tier 0	0	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tier 0+	0	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tier 1	0	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tier 1+	0	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tier 2	0	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tier 2+	0	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tier 3	0	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tier 4	30	100.00%	0.31	0.30	1.01	20.80	26.62	0.09	10210.00	0.26	0.80
Total - Westbound[3]	**30**	**100%**	**0.31**	**0.30**	**1.01**	**20.80**	**26.62**	**0.09**	**10210**	**0.26**	**0.80**
Total - Eastbound[3]	**30**	**100%**	**0.30**	**0.29**	**0.98**	**20.55**	**26.21**	**0.09**	**9577**	**0.24**	**0.75**

Notes:

1. Locomotive Inventory based on 2023 CARB 98 MOU.
2. GHG emissions adjusted for 62% reduction for Carbon Intensity for any renewable diesl usage (CARB 2024).
3. Adjusted for alternative fuel blend.

Locomotive Parameters

Locomotive Parameters	Idling Power Rating[1]	Brake Specific Fuel Consumption[2]	Weight of Locomotive Engine[3]	Weight of Fuel[3]
Units	**bhp/loco**	**bhp-hr/gal**	**tons/loco**	**tons/loco**
Value	25	20.8	209	18

Notes:

1. US EPA 1998, Locomotive Emission Standards, Appendix I. Peak idling power.
2. US EPA 2009, Emission Factors for Locomotives, Table 3.
3. Provided by BNSF.

Scenario Train Parameters[1]

Train Type	Train-Trip Length (Eastbound)	Train-Trip Length (Westbound)	Daily Train Trips (Eastbound)	Daily Train Trips (Westbound)	Locomotives (Eastbound)	Locomotives (Westbound)	Locomotive Weight (Eastbound)	Locomotive Weight (Westbound)	Freight Weight (Eastbound)	Freight Weight (Westbound)	Idling Time (Non-Directional)
Units	**miles/trip**	**miles/trip**	**train-trips/day**	**train-trips/day**	**loco/train**	**loco/train**	**tons/train**	**tons/train**	**tons/train**	**tons/train**	**hours/day**
S-BAR6	25.20	25.20	1.44	1.79	5.56	3.62	1262.58	821.83	9789.19	7964.85	1.26

Notes:

1. Provided By BNSF. Average daily values.

Scenario Fuel Parameters[1]

Train Type	Horsepower per Ton (HPT) (Eastbound)	Horsepower per Ton (HPT) (Westbound)	East Elevation	West Elevation	Segment Length	Grade	Grade	Train Factor	Train Factor	Fuel Efficiency (Eastbound)	Fuel Efficiency (Westbound)
Units	**bhp/ton**	**bhp/ton**	**ft**	**ft**	**mi**	**Eastbound**	**Westbound**	**Eastbound**	**Westbound**	**ton-miles/gal**	**ton-miles/gal**
S-BAR6	2.50	2.00	3775	1073	25	0.020	-0.020	-0.126	-0.022	196.98	7414.45

Notes:

CORRIDOR EMISSION CALCULATIONS

Proposed Project	
Analysis Year	2028

Description:

Analysis of the train movement Eastbound and Westbound for the Proposed Project Dedicated Fleet.
A composite emission factor is calculated using the MOU reported fleet mix and EPA emission factors.
Corridor parameters are daily averages provided by BNSF.
Eastbound uses in state fuel blend.
Westbound uses out-of-state fuel blend.

Out-of-State =	100%	0% RD Blend/Use		In State =	100%	10% RD Blend/Use
Out-of-State =	0% Renewable			In State =	10% Renewable	

1. Provided By BNSF. Fuel Efficiency based on regression model from 2023 train data.

CORRIDOR EMISSION CALCULATIONS

Proposed Project	
Analysis Year	2028

Description:

Analysis of the train movement Eastbound and Westbound for the Proposed Project Dedicated Fleet.
A composite emission factor is calculated using the MOU reported fleet mix and EPA emission factors.
Corridor parameters are daily averages provided by BNSF.
Eastbound uses in state fuel blend.
Westbound uses out-of-state fuel blend.

Out-of-State =	100%	0% RD Blend/Use		In State =	100%	10% RD Blend/Use
Out-of-State =	0% Renewable			In State =	10% Renewable	

Scenario Daily Emissions Summary

Train Type	Total Peak Daily Corridor Criteria Pollutant Emissions [1]						Total Peak Daily Corridor GHG Emissions [1]			
Pollutant	**PM10**	**PM2.5**	**VOC**	**NOx**	**CO**	**SOx**	**CO_2**	**N_2O**	**CH_4**	**$CO2e^2$**
Non-Affected Trains	0.000	0.000	0.000	0.000	0.000	0.000	0.0	0.0	0.0	0.0
Affected Trains	0.001	0.001	0.003	0.054	0.069	0.000	22.9	0.0	0.0	23.1
Total	0.001	0.001	0.003	0.054	0.069	0.000	22.9	0.0	0.0	23.1

Direction of Travel	Average Moving Non-Affected Trains Daily Corridor Criteria Pollutant Emissions						Non-Affected Trains Daily Corridor GHG Emissions			
Pollutant	**PM10**	**PM2.5**	**VOC**	**NOx**	**CO**	**SOx**	**CO_2**	**N_2O**	**CH_4**	**$CO2e^2$**
Eastbound	0.000	0.000	0.000	0.000	0.000	0.000	0.0	0.0	0.0	0.0
Westbound	0.000	0.000	0.000	0.000	0.000	0.000	0.0	0.0	0.0	0.0
Total	0.000	0.000	0.000	0.000	0.000	0.000	0.0	0.0	0.0	0.0

Direction of Travel	Average Moving Affected Trains Daily Corridor Criteria Pollutant Emissions						Affected Trains Daily Corridor GHG Emissions			
Pollutant	**PM10**	**PM2.5**	**VOC**	**NOx**	**CO**	**SOx**	**CO_2**	**N_2O**	**CH_4**	**$CO2e^2$**
Eastbound	0.001	0.001	0.002	0.046	0.059	0.000	19.5	0.0	0.0	19.7
Westbound	0.000	0.000	0.000	0.001	0.002	0.000	0.5	0.0	0.0	0.6
Total	0.001	0.001	0.002	0.047	0.060	0.000	20.0	0.0	0.0	20.2

Train Type	Average Idling Daily Corridor Criteria Pollutant Emissions						Total Idling Daily Corridor GHG Emissions			
Pollutant	**PM10**	**PM2.5**	**VOC**	**NOx**	**CO**	**SOx**	**CO_2**	**N_2O**	**CH_4**	**$CO2e^2$**
Non-Affected Trains	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.0	0.0	0.0	0.0
Affected Trains	7.43E-06	7.20E-06	2.41E-05	5.00E-04	6.38E-04	2.27E-06	0.2	0.0	0.0	0.2
Total	7.43E-06	7.20E-06	2.41E-05	5.00E-04	6.38E-04	2.27E-06	0.2	0.0	0.0	0.2

Notes:

1. Peak daily emissions based on 13% safety factor on average daily emissions.

2. Global warming potentials for CO2e based on Table A-1 to Subpart A of Part 98, Title 40. https://www.ecfr.gov/current/title-40/part-98/appendix-Table A-1 to Subpart A of Part 98

CORRIDOR EMISSION CALCULATIONS

Proposed Project	
Analysis Year	2028

Description:

Analysis of the train movement Eastbound and Westbound for the Proposed Project Dedicated Fleet.
A composite emission factor is calculated using the MOU reported fleet mix and EPA emission factors.
Corridor parameters are daily averages provided by BNSF.
Eastbound uses in state fuel blend.
Westbound uses out-of-state fuel blend.

Out-of-State =	100%	0%	RD Blend/Use	In State =	100%	10%	RD Blend/Use
Out-of-State =	0%	Renewable		In State =	10%	Renewable	

Scenario Fleet Parameters

Tier	Locomotive Inventory[1]	Locomotive Fleet Mix (%)[1]	Composite Line-Haul Criteria Pollutant Emission Factors (g/gal)						GHG (g/gal)[2]		
			PM10	PM2.5	VOC	NOx	CO	SOx	CO_2	N_2O	CH_4
Uncontrolled	0	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tier 0	0	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tier 0+	0	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tier 1	0	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tier 1+	0	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tier 2	0	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tier 2+	0	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tier 3	0	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tier 4	30	100.00%	0.31	0.30	1.01	20.80	26.62	0.09	10210.00	0.26	0.80
Total - Westbound[3]	**30**	**100%**	**0.31**	**0.30**	**1.01**	**20.80**	**26.62**	**0.09**	**10210**	**0.26**	**0.80**
Total - Eastbound[3]	**30**	**100%**	**0.30**	**0.29**	**0.98**	**20.55**	**26.21**	**0.09**	**9577**	**0.24**	**0.75**

Notes:

1. Locomotive Inventory based on 2023 CARB 98 MOU.
2. GHG emissions adjusted for 62% reduction for Carbon Intensity for any renewable diesl usage (CARB 2024).
3. Adjusted for alternative fuel blend.

Locomotive Parameters

Locomotive Parameters	Idling Power Rating[1]	Brake Specific Fuel Consumption[2]	Weight of Locomotive Engine[3]	Weight of Fuel[3]
Units	**bhp/loco**	**bhp-hr/gal**	**tons/loco**	**tons/loco**
Value	25	20.8	209	18

Notes:

1. US EPA 1998, Locomotive Emission Standards, Appendix I. Peak idling power.
2. US EPA 2009, Emission Factors for Locomotives, Table 3.
3. Provided by BNSF.

Scenario Train Parameters[1]

Train Type	Train-Trip Length (Eastbound)	Train-Trip Length (Westbound)	Daily Train Trips (Eastbound)	Daily Train Trips (Westbound)	Locomotives (Eastbound)	Locomotives (Westbound)	Locomotive Weight (Eastbound)	Locomotive Weight (Westbound)	Freight Weight (Eastbound)	Freight Weight (Westbound)	Idling Time (Non-Directional)
Units	**miles/trip**	**miles/trip**	**train-trips/day**	**train-trips/day**	**loco/train**	**loco/train**	**tons/train**	**tons/train**	**tons/train**	**tons/train**	**hours/day**
S-BAR6	56.10	56.10	1.44	1.79	5.56	3.62	1263.07	821.52	9792.95	7961.87	0.67

Notes:

1. Provided By BNSF. Average daily values.

Scenario Fuel Parameters[1]

Train Type	Horsepower per Ton (HPT) (Eastbound)	Horsepower per Ton (HPT) (Westbound)	East Elevation	West Elevation	Segment Length	Grade	Grade	Train Factor	Train Factor	Fuel Efficiency (Eastbound)	Fuel Efficiency (Westbound)
Units	**bhp/ton**	**bhp/ton**	**ft**	**ft**	**mi**	**Eastbound**	**Westbound**	**Eastbound**	**Westbound**	**ton-miles/gal**	**ton-miles/gal**
S-BAR6	2.50	2.00	2117	3775	56	-0.006	0.006	-0.126	-0.022	1885.46	737.48

Notes:

CORRIDOR EMISSION CALCULATIONS

Proposed Project	
Analysis Year	2028

Description:

Analysis of the train movement Eastbound and Westbound for the Proposed Project Dedicated Fleet.
A composite emission factor is calculated using the MOU reported fleet mix and EPA emission factors.
Corridor parameters are daily averages provided by BNSF.
Eastbound uses in state fuel blend.
Westbound uses out-of-state fuel blend.

Out-of-State =	100%	0% RD Blend/Use		In State =	100%	10% RD Blend/Use
Out-of-State =	0% Renewable			In State =	10% Renewable	

1. Provided By BNSF. Fuel Efficiency based on regression model from 2023 train data.

CORRIDOR EMISSION CALCULATIONS

Proposed Project	
Analysis Year	2028

Description:

Analysis of the train movement Eastbound and Westbound for the Proposed Project Dedicated Fleet.
A composite emission factor is calculated using the MOU reported fleet mix and EPA emission factors.
Corridor parameters are daily averages provided by BNSF.
Eastbound uses in state fuel blend.
Westbound uses out-of-state fuel blend.

Out-of-State =	100%	0% RD Blend/Use		In State =	100%	10% RD Blend/Use
Out-of-State =	0% Renewable			In State =	10% Renewable	

Scenario Daily Emissions Summary

Train Type	Total Peak Daily Corridor Criteria Pollutant Emissions [1]						Total Peak Daily Corridor GHG Emissions [1]			
Pollutant	**PM10**	**PM2.5**	**VOC**	**NOx**	**CO**	**SOx**	**CO_2**	**N_2O**	**CH_4**	**$CO2e^2$**
Non-Affected Trains	0.000	0.000	0.000	0.000	0.000	0.000	0.0	0.0	0.0	0.0
Affected Trains	0.001	0.001	0.002	0.043	0.056	0.000	19.1	0.0	0.0	19.2
Total	0.001	0.001	0.002	0.043	0.056	0.000	19.1	0.0	0.0	19.2

Direction of Travel	Average Moving Non-Affected Trains Daily Corridor Criteria Pollutant Emissions						Non-Affected Trains Daily Corridor GHG Emissions			
Pollutant	**PM10**	**PM2.5**	**VOC**	**NOx**	**CO**	**SOx**	**CO_2**	**N_2O**	**CH_4**	**$CO2e^2$**
Eastbound	0.000	0.000	0.000	0.000	0.000	0.000	0.0	0.0	0.0	0.0
Westbound	0.000	0.000	0.000	0.000	0.000	0.000	0.0	0.0	0.0	0.0
Total	0.000	0.000	0.000	0.000	0.000	0.000	0.0	0.0	0.0	0.0

Direction of Travel	Average Moving Affected Trains Daily Corridor Criteria Pollutant Emissions						Affected Trains Daily Corridor GHG Emissions			
Pollutant	**PM10**	**PM2.5**	**VOC**	**NOx**	**CO**	**SOx**	**CO_2**	**N_2O**	**CH_4**	**$CO2e^2$**
Eastbound	0.000	0.000	0.001	0.011	0.014	0.000	4.5	0.0	0.0	4.6
Westbound	0.000	0.000	0.001	0.027	0.035	0.000	12.2	0.0	0.0	12.3
Total	0.001	0.001	0.002	0.038	0.049	0.000	16.8	0.0	0.0	16.9

Train Type	Average Idling Daily Corridor Criteria Pollutant Emissions						Total Idling Daily Corridor GHG Emissions			
Pollutant	**PM10**	**PM2.5**	**VOC**	**NOx**	**CO**	**SOx**	**CO_2**	**N_2O**	**CH_4**	**$CO2e^2$**
Non-Affected Trains	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.0	0.0	0.0	0.0
Affected Trains	3.94E-06	3.82E-06	1.28E-05	2.65E-04	3.39E-04	1.20E-06	0.1	0.0	0.0	0.1
Total	3.94E-06	3.82E-06	1.28E-05	2.65E-04	3.39E-04	1.20E-06	0.1	0.0	0.0	0.1

Notes:

1. Peak daily emissions based on 13% safety factor on average daily emissions.

2. Global warming potentials for CO2e based on Table A-1 to Subpart A of Part 98, Title 40. https://www.ecfr.gov/current/title-40/part-98/appendix-Table A-1 to Subpart A of Part 98

CORRIDOR EMISSION CALCULATIONS

No Project Scenario	
Analysis Year	2033

Description:

Analysis of the train movement Eastbound and Westbound for the No Project.
A composite emission factor is calculated using the MOU reported fleet mix and EPA emission factors.
Corridor parameters are daily averages provided by BNSF.
Eastbound uses in state fuel blend.
Westbound uses out-of-state fuel blend.

Out-of-State =	100%	0% RD Blend/Use	In State =	100%	1% RD Blend/Use
Out-of-State =	0% Renewable		In State =	1% Renewable	

Scenario Fleet Parameters

Tier	Locomotive Inventory[1]	Locomotive Fleet Mix (%)[1]	Composite Line-Haul Criteria Pollutant Emission Factors (g/gal)						GHG (g/gal)[2]		
			PM10	PM2.5	VOC	NOx	CO	SOx	CO_2	N_2O	CH_4
Uncontrolled	0	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tier 0	0	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tier 0+	0	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tier 1	0	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tier 1+	943	22.12%	0.92	0.89	1.61	30.82	5.89	0.02	2257.98	0.06	0.18
Tier 2	0	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tier 2+	1589	37.27%	0.62	0.60	1.22	38.37	9.92	0.03	3804.81	0.10	0.30
Tier 3	1198	28.10%	0.47	0.45	0.92	28.93	7.48	0.03	2868.57	0.07	0.22
Tier 4	534	12.52%	0.04	0.04	0.13	2.60	3.33	0.01	1278.64	0.03	0.10
Total - Westbound[3]	**4,264**	**100%**	**2.05**	**1.99**	**3.88**	**100.72**	**26.62**	**0.09**	**10210**	**0.26**	**0.80**
Total - Eastbound[3]	**4,264**	**100%**	**2.04**	**1.98**	**3.87**	**100.60**	**26.58**	**0.09**	**10147**	**0.26**	**0.80**

Notes:

1. Locomotive Inventory based on 2023 CARB 98 MOU.
2. GHG emissions adjusted for 62% reduction for Carbon Intensity for any renewable diesl usage (CARB 2024).
3. Adjusted for alternative fuel blend.

CORRIDOR EMISSION CALCULATIONS

No Project Scenario	
Analysis Year	2033

Description:

Analysis of the train movement Eastbound and Westbound for the No Project.
A composite emission factor is calculated using the MOU reported fleet mix and EPA emission factors.
Corridor parameters are daily averages provided by BNSF.
Eastbound uses in state fuel blend.
Westbound uses out-of-state fuel blend.

Out-of-State =	100%	0% RD Blend/Use	In State =	100%	1% RD Blend/Use
Out-of-State =	0% Renewable		In State =	1% Renewable	

Locomotive Parameters

Locomotive Parameters	Idling Power Rating[1]	Brake Specific Fuel Consumption[2]	Weight of Locomotive Engine[3]	Weight of Fuel[3]
Units	bhp/loco	bhp-hr/gal	tons/loco	tons/loco
Value	25	20.8	209	18

Notes:

1. US EPA 1998, Locomotive Emission Standards, Appendix I. Peak idling power.
2. US EPA 2009, Emission Factors for Locomotives, Table 3.
3. Provided by BNSF.

Scenario Train Parameters[1]

Train Type	Train-Trip Length (Eastbound)	Train-Trip Length (Westbound)	Daily Train Trips (Eastbound)	Daily Train Trips (Westbound)	Locomotives (Eastbound)	Locomotives (Westbound)	Locomotive Weight (Eastbound)	Locomotive Weight (Westbound)	Freight Weight (Eastbound)	Freight Weight (Westbound)	Idling Time (Non-Directional)
Units	miles/trip	miles/trip	train-trips/day	train-trips/day	loco/train	loco/train	tons/train	tons/train	tons/train	tons/train	hours/day
B-Bare Table	65.49	66.85	0.39	2.11	2.00	2.00	454.00	454.00	2456.63	2586.85	0.35
Q-Guaranteed	67.77	65.65	3.33	3.87	3.32	2.38	754.64	541.38	5850.98	5246.88	0.33
S-Stack	86.20	86.20	4.06	5.03	5.60	3.49	1271.07	792.43	9854.98	7679.92	0.78
Z-Z Trains	65.08	65.23	6.48	5.15	3.86	3.17	875.71	720.03	5473.26	4605.37	0.86
NIM-Other Non-Intermodal	56.95	58.84	3.49	4.12	3.32	3.37	753.03	764.03	5838.46	7404.69	3.02

Notes:

1. Provided By BNSF. Average daily values.

Scenario Fuel Parameters[1]

Train Type	Horsepower per Ton (HPT) (Eastbound)	Horsepower per Ton (HPT) (Westbound)	East Elevation	West Elevation	Segment Length	Grade	Grade	Train Factor	Train Factor	Fuel Efficiency (Eastbound)	Fuel Efficiency (Westbound)
Units	bhp/ton	bhp/ton	ft	ft	mi	Eastbound	Westbound	Eastbound	Westbound	ton-miles/gal	ton-miles/gal
B-Bare Table	2.50	2.00	1073	17	112	0.002	-0.002	-0.022	-0.067	734.03	1196.11
Q-Guaranteed	2.50	2.00	1073	17	112	0.002	-0.002	0.122	0.109	902.30	1468.25
S-Stack	2.50	2.00	1073	17	112	0.002	-0.002	-0.126	-0.022	634.97	1218.87
Z-Z Trains	3.10	3.03	1073	17	112	0.002	-0.002	0.083	-0.050	806.51	1105.13
NIM-Other Non-Intermodal	2.50	2.00	1073	17	112	0.002	-0.002	-0.057	0.030	853.61	1424.61

Notes:

1. Provided By BNSF. Fuel Efficiency based on regression model from 2023 train data.

CORRIDOR EMISSION CALCULATIONS

No Project Scenario	
Analysis Year	2033

Description:

Analysis of the train movement Eastbound and Westbound for the No Project.
A composite emission factor is calculated using the MOU reported fleet mix and EPA emission factors.
Corridor parameters are daily averages provided by BNSF.
Eastbound uses in state fuel blend.
Westbound uses out-of-state fuel blend.

Out-of-State =	100%	0% RD Blend/Use	In State =	100%	1% RD Blend/Use
Out-of-State =	0% Renewable		In State =	1% Renewable	

Scenario Daily Emissions Summary

Train Type	Total Peak Daily Corridor Criteria Pollutant Emissions [1] (tons/day)						Total Peak Daily Corridor GHG Emissions [1] (metric tons/day)			
Pollutant	**PM10**	**PM2.5**	**VOC**	**NOx**	**CO**	**SOx**	**CO_2**	**N_2O**	**CH_4**	**$CO2e^2$**
Non-Affected Trains	0.022	0.021	0.041	1.064	0.281	0.001	97.6	0.0	0.0	98.5
Affected Trains	0.031	0.030	0.059	1.523	0.402	0.001	139.6	0.0	0.0	140.9
Total	0.053	0.051	0.100	2.587	0.684	0.002	237.2	0.0	0.0	239.4

Direction of Travel	Average Moving Non-Affected Trains Daily Corridor Criteria Pollutant Emissions (tons/day)						Non-Affected Trains Daily Corridor GHG Emissions (metric tons/day)			
Pollutant	**PM10**	**PM2.5**	**VOC**	**NOx**	**CO**	**SOx**	**CO_2**	**N_2O**	**CH_4**	**$CO2e^2$**
Eastbound	0.011	0.011	0.021	0.548	0.145	0.001	50.1	0.0	0.0	50.6
Westbound	0.008	0.007	0.015	0.379	0.100	0.000	34.8	0.0	0.0	35.2
Total	0.019	0.018	0.036	0.927	0.245	0.001	85.0	0.0	0.0	85.8

Direction of Travel	Average Moving Affected Trains Daily Corridor Criteria Pollutant Emissions (tons/day)						Affected Trains Daily Corridor GHG Emissions (metric tons/day)			
Pollutant	**PM10**	**PM2.5**	**VOC**	**NOx**	**CO**	**SOx**	**CO_2**	**N_2O**	**CH_4**	**$CO2e^2$**
Eastbound	0.017	0.016	0.032	0.825	0.218	0.001	75.5	0.0	0.0	76.2
Westbound	0.011	0.010	0.020	0.518	0.137	0.000	47.6	0.0	0.0	48.0
Total	0.027	0.026	0.052	1.342	0.355	0.001	123.0	0.0	0.0	124.2

Train Type	Average Idling Daily Corridor Criteria Pollutant Emissions (tons/day)						Total Idling Daily Corridor GHG Emissions (metric tons/day)			
Pollutant	**PM10**	**PM2.5**	**VOC**	**NOx**	**CO**	**SOx**	**CO_2**	**N_2O**	**CH_4**	**$CO2e^2$**
Non-Affected Trains	3.04E-04	2.95E-04	5.77E-04	1.50E-02	3.96E-03	1.40E-05	1.4	0.0	0.0	1.4
Affected Trains	1.08E-04	1.05E-04	2.05E-04	5.33E-03	1.41E-03	4.97E-06	0.5	0.0	0.0	0.5
Total	4.13E-04	4.00E-04	7.82E-04	2.03E-02	5.37E-03	1.90E-05	1.9	0.0	0.0	1.9

Notes:

1. Peak daily emissions based on 13% safety factor on average daily emissions.

2. Global warming potentials for CO2e based on Table A-1 to Subpart A of Part 98, Title 40. https://www.ecfr.gov/current/title-40/part-98/appendix-Table A-1 to Subpart A of Part 98

CORRIDOR EMISSION CALCULATIONS

No Project Scenario	
Analysis Year	2033

Description:

Analysis of the train movement Eastbound and Westbound for the No Project.
A composite emission factor is calculated using the MOU reported fleet mix and EPA emission factors.
Corridor parameters are daily averages provided by BNSF.
Eastbound uses in state fuel blend.
Westbound uses out-of-state fuel blend.

Out-of-State =	100%	0% RD Blend/Use	In State =	100%	1% RD Blend/Use
Out-of-State =	0% Renewable		In State =	1% Renewable	

Scenario Fleet Parameters

Tier	Locomotive Inventory[1]	Locomotive Fleet Mix (%)[1]	Composite Line-Haul Criteria Pollutant Emission Factors (g/gal)						GHG (g/gal)[2]		
			PM10	PM2.5	VOC	NOx	CO	SOx	CO_2	N_2O	CH_4
Uncontrolled	0	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tier 0	0	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tier 0+	0	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tier 1	0	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tier 1+	943	22.12%	0.92	0.89	1.61	30.82	5.89	0.02	2257.98	0.06	0.18
Tier 2	0	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tier 2+	1589	37.27%	0.62	0.60	1.22	38.37	9.92	0.03	3804.81	0.10	0.30
Tier 3	1198	28.10%	0.47	0.45	0.92	28.93	7.48	0.03	2868.57	0.07	0.22
Tier 4	534	12.52%	0.04	0.04	0.13	2.60	3.33	0.01	1278.64	0.03	0.10
Total - Westbound[3]	**4,264**	**100%**	**2.05**	**1.99**	**3.88**	**100.72**	**26.62**	**0.09**	**10210**	**0.26**	**0.80**
Total - Eastbound[3]	**4,264**	**100%**	**2.04**	**1.98**	**3.87**	**100.60**	**26.58**	**0.09**	**10147**	**0.26**	**0.80**

Notes:

1. Locomotive Inventory based on 2023 CARB 98 MOU.
2. GHG emissions adjusted for 62% reduction for Carbon Intensity for any renewable diesl usage (CARB 2024).
3. Adjusted for alternative fuel blend.

CORRIDOR EMISSION CALCULATIONS

No Project Scenario	
Analysis Year	2033

Description:

Analysis of the train movement Eastbound and Westbound for the No Project.
A composite emission factor is calculated using the MOU reported fleet mix and EPA emission factors.
Corridor parameters are daily averages provided by BNSF.
Eastbound uses in state fuel blend.
Westbound uses out-of-state fuel blend.

Out-of-State =	100%	0% RD Blend/Use	In State =	100%	1% RD Blend/Use
Out-of-State =	0% Renewable		In State =	1% Renewable	

Locomotive Parameters

Locomotive Parameters	Idling Power Rating[1]	Brake Specific Fuel Consumption[2]	Weight of Locomotive Engine[3]	Weight of Fuel[3]
Units	bhp/loco	bhp-hr/gal	tons/loco	tons/loco
Value	25	20.8	209	18

Notes:

1. US EPA 1998, Locomotive Emission Standards, Appendix I. Peak idling power.
2. US EPA 2009, Emission Factors for Locomotives, Table 3.
3. Provided by BNSF.

Scenario Train Parameters[1]

Train Type	Train-Trip Length (Eastbound)	Train-Trip Length (Westbound)	Daily Train Trips (Eastbound)	Daily Train Trips (Westbound)	Locomotives (Eastbound)	Locomotives (Westbound)	Locomotive Weight (Eastbound)	Locomotive Weight (Westbound)	Freight Weight (Eastbound)	Freight Weight (Westbound)	Idling Time (Non-Directional)
Units	miles/trip	miles/trip	train-trips/day	train-trips/day	loco/train	loco/train	tons/train	tons/train	tons/train	tons/train	hours/day
B-Bare Table	25.20	25.20	0.71	2.86	2.00	2.00	454.00	454.00	2344.22	2684.37	0.35
Q-Guaranteed	25.20	25.20	4.05	4.98	3.35	2.47	759.41	561.52	5887.94	5442.03	0.33
S-Stack	25.20	25.20	4.03	5.01	5.56	3.62	1262.58	821.83	9789.19	7964.85	0.78
Z-Z Trains	25.20	25.20	11.22	8.90	3.94	3.45	894.77	782.51	5592.40	5005.04	0.86
NIM-Other Non-Intermodal	25.20	25.20	5.18	5.79	2.95	3.40	670.10	772.67	5195.49	7488.44	3.02

Notes:

1. Provided By BNSF. Average daily values.

Scenario Fuel Parameters[1]

Train Type	Horsepower per Ton (HPT) (Eastbound)	Horsepower per Ton (HPT) (Westbound)	East Elevation	West Elevation	Segment Length	Grade	Grade	Train Factor	Train Factor	Fuel Efficiency (Eastbound)	Fuel Efficiency (Westbound)
Units	bhp/ton	bhp/ton	ft	ft	mi	Eastbound	Westbound	Eastbound	Westbound	ton-miles/gal	ton-miles/gal
B-Bare Table	2.50	2.00	3775	1073	25	0.020	-0.020	-0.022	-0.067	179.40	6731.05
Q-Guaranteed	2.50	2.00	3775	1073	25	0.020	-0.020	0.122	0.109	227.19	8232.62
S-Stack	2.50	2.00	3775	1073	25	0.020	-0.020	-0.126	-0.022	196.98	7414.45
Z-Z Trains	3.10	3.03	3775	1073	25	0.020	-0.020	0.083	-0.050	197.37	6200.32
NIM-Other Non-Intermodal	2.50	2.00	3775	1073	25	0.020	-0.020	-0.057	0.030	186.40	7769.06

Notes:

1. Provided By BNSF. Fuel Efficiency based on regression model from 2023 train data.

CORRIDOR EMISSION CALCULATIONS

No Project Scenario	
Analysis Year	2033

Description:

Analysis of the train movement Eastbound and Westbound for the No Project.
A composite emission factor is calculated using the MOU reported fleet mix and EPA emission factors.
Corridor parameters are daily averages provided by BNSF.
Eastbound uses in state fuel blend.
Westbound uses out-of-state fuel blend.

Out-of-State =	100%	0% RD Blend/Use	In State =	100%	1% RD Blend/Use
Out-of-State =	0% Renewable		In State =	1% Renewable	

Scenario Daily Emissions Summary

Train Type	Total Peak Daily Corridor Criteria Pollutant Emissions [1] (tons/day)						Total Peak Daily Corridor GHG Emissions [1] (metric tons/day)			
Pollutant	**PM10**	**PM2.5**	**VOC**	**NOx**	**CO**	**SOx**	**CO_2**	**N_2O**	**CH_4**	**$CO2e^2$**
Non-Affected Trains	0.035	0.034	0.066	1.727	0.456	0.002	158.0	0.0	0.0	159.5
Affected Trains	0.027	0.026	0.051	1.338	0.353	0.001	122.4	0.0	0.0	123.6
Total	0.062	0.060	0.118	3.064	0.810	0.003	280.4	0.0	0.0	283.1

Direction of Travel	Average Moving Non-Affected Trains Daily Corridor Criteria Pollutant Emissions (tons/day)						Non-Affected Trains Daily Corridor GHG Emissions (metric tons/day)			
Pollutant	**PM10**	**PM2.5**	**VOC**	**NOx**	**CO**	**SOx**	**CO_2**	**N_2O**	**CH_4**	**$CO2e^2$**
Eastbound	0.030	0.029	0.056	1.460	0.386	0.001	133.6	0.0	0.0	134.9
Westbound	0.001	0.001	0.002	0.045	0.012	0.000	4.1	0.0	0.0	4.2
Total	0.031	0.030	0.058	1.505	0.398	0.001	137.8	0.0	0.0	139.1

Direction of Travel	Average Moving Affected Trains Daily Corridor Criteria Pollutant Emissions (tons/day)						Affected Trains Daily Corridor GHG Emissions (metric tons/day)			
Pollutant	**PM10**	**PM2.5**	**VOC**	**NOx**	**CO**	**SOx**	**CO_2**	**N_2O**	**CH_4**	**$CO2e^2$**
Eastbound	0.023	0.022	0.044	1.143	0.302	0.001	104.6	0.0	0.0	105.6
Westbound	0.001	0.001	0.001	0.034	0.009	0.000	3.2	0.0	0.0	3.2
Total	0.024	0.023	0.045	1.178	0.311	0.001	107.8	0.0	0.0	108.8

Train Type	Average Idling Daily Corridor Criteria Pollutant Emissions (tons/day)						Total Idling Daily Corridor GHG Emissions (metric tons/day)			
Pollutant	**PM10**	**PM2.5**	**VOC**	**NOx**	**CO**	**SOx**	**CO_2**	**N_2O**	**CH_4**	**$CO2e^2$**
Non-Affected Trains	4.61E-04	4.47E-04	8.73E-04	2.27E-02	6.00E-03	2.12E-05	2.1	0.0	0.0	2.1
Affected Trains	1.16E-04	1.12E-04	2.19E-04	5.70E-03	1.51E-03	5.32E-06	0.5	0.0	0.0	0.5
Total	5.76E-04	5.59E-04	1.09E-03	2.84E-02	7.50E-03	2.65E-05	2.6	0.0	0.0	2.6

Notes:

1. Peak daily emissions based on 13% safety factor on average daily emissions.

2. Global warming potentials for CO2e based on Table A-1 to Subpart A of Part 98, Title 40. https://www.ecfr.gov/current/title-40/part-98/appendix-Table A-1 to Subpart A of Part 98

CORRIDOR EMISSION CALCULATIONS

No Project Scenario	
Analysis Year	2033

Description:

Analysis of the train movement Eastbound and Westbound for the No Project.
A composite emission factor is calculated using the MOU reported fleet mix and EPA emission factors.
Corridor parameters are daily averages provided by BNSF.
Eastbound uses in state fuel blend.
Westbound uses out-of-state fuel blend.

Out-of-State =	100%	0% RD Blend/Use	In State =	100%	1% RD Blend/Use
Out-of-State =	0% Renewable		In State =	1% Renewable	

Scenario Fleet Parameters

Tier	Locomotive Inventory[1]	Locomotive Fleet Mix (%)[1]	Composite Line-Haul Criteria Pollutant Emission Factors (g/gal)						GHG (g/gal)[2]		
			PM10	PM2.5	VOC	NOx	CO	SOx	CO_2	N_2O	CH_4
Uncontrolled	0	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tier 0	0	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tier 0+	0	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tier 1	0	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tier 1+	943	22.12%	0.92	0.89	1.61	30.82	5.89	0.02	2257.98	0.06	0.18
Tier 2	0	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tier 2+	1589	37.27%	0.62	0.60	1.22	38.37	9.92	0.03	3804.81	0.10	0.30
Tier 3	1198	28.10%	0.47	0.45	0.92	28.93	7.48	0.03	2868.57	0.07	0.22
Tier 4	534	12.52%	0.04	0.04	0.13	2.60	3.33	0.01	1278.64	0.03	0.10
Total - Westbound[3]	**4,264**	**100%**	**2.05**	**1.99**	**3.88**	**100.72**	**26.62**	**0.09**	**10210**	**0.26**	**0.80**
Total - Eastbound[3]	**4,264**	**100%**	**2.04**	**1.98**	**3.87**	**100.60**	**26.58**	**0.09**	**10147**	**0.26**	**0.80**

Notes:

1. Locomotive Inventory based on 2023 CARB 98 MOU.
2. GHG emissions adjusted for 62% reduction for Carbon Intensity for any renewable diesl usage (CARB 2024).
3. Adjusted for alternative fuel blend.

CORRIDOR EMISSION CALCULATIONS

No Project Scenario	
Analysis Year	2033

Description:

Analysis of the train movement Eastbound and Westbound for the No Project.
A composite emission factor is calculated using the MOU reported fleet mix and EPA emission factors.
Corridor parameters are daily averages provided by BNSF.
Eastbound uses in state fuel blend.
Westbound uses out-of-state fuel blend.

Out-of-State =	100%	0% RD Blend/Use	In State =	100%	1% RD Blend/Use
Out-of-State =	0% Renewable		In State =	1% Renewable	

Locomotive Parameters

Locomotive Parameters	Idling Power Rating[1]	Brake Specific Fuel Consumption[2]	Weight of Locomotive Engine[3]	Weight of Fuel[3]
Units	bhp/loco	bhp-hr/gal	tons/loco	tons/loco
Value	25	20.8	209	18

Notes:

1. US EPA 1998, Locomotive Emission Standards, Appendix I. Peak idling power.
2. US EPA 2009, Emission Factors for Locomotives, Table 3.
3. Provided by BNSF.

Scenario Train Parameters[1]

Train Type	Train-Trip Length (Eastbound)	Train-Trip Length (Westbound)	Daily Train Trips (Eastbound)	Daily Train Trips (Westbound)	Locomotives (Eastbound)	Locomotives (Westbound)	Locomotive Weight (Eastbound)	Locomotive Weight (Westbound)	Freight Weight (Eastbound)	Freight Weight (Westbound)	Idling Time (Non-Directional)
Units	miles/trip	miles/trip	train-trips/day	train-trips/day	loco/train	loco/train	tons/train	tons/train	tons/train	tons/train	hours/day
B-Bare Table	56.10	56.10	0.70	2.85	2.00	2.00	454.00	454.00	2307.42	2681.37	0.14
Q-Guaranteed	56.10	56.10	4.05	4.98	3.35	2.48	759.40	562.39	5887.87	5450.50	1.03
S-Stack	56.10	56.10	4.03	5.01	5.56	3.62	1263.07	821.52	9792.95	7961.87	0.61
Z-Z Trains	56.10	56.10	11.22	8.90	3.94	3.45	894.78	782.87	5592.45	5007.35	0.45
NIM-Other Non-Intermodal	56.10	56.10	5.02	5.64	2.93	3.39	665.23	768.58	5157.71	7448.78	3.43

Notes:

1. Provided By BNSF. Average daily values.

Scenario Fuel Parameters[1]

Train Type	Horsepower per Ton (HPT) (Eastbound)	Horsepower per Ton (HPT) (Westbound)	East Elevation	West Elevation	Segment Length	Grade	Grade	Train Factor	Train Factor	Fuel Efficiency (Eastbound)	Fuel Efficiency (Westbound)
Units	bhp/ton	bhp/ton	ft	ft	mi	Eastbound	Westbound	Eastbound	Westbound	ton-miles/gal	ton-miles/gal
B-Bare Table	2.50	2.00	2117	3775	56	-0.006	0.006	-0.022	-0.067	1715.52	669.51
Q-Guaranteed	2.50	2.00	2117	3775	56	-0.006	0.006	0.122	0.109	2174.46	818.95
S-Stack	2.50	2.00	2117	3775	56	-0.006	0.006	-0.126	-0.022	1885.46	737.48
Z-Z Trains	3.10	3.03	2117	3775	56	-0.006	0.006	0.083	-0.050	1889.07	616.75
NIM-Other Non-Intermodal	2.50	2.00	2117	3775	56	-0.006	0.006	-0.057	0.030	1782.18	772.47

Notes:

1. Provided By BNSF. Fuel Efficiency based on regression model from 2023 train data.

CORRIDOR EMISSION CALCULATIONS

No Project Scenario	
Analysis Year	2033

Description:

Analysis of the train movement Eastbound and Westbound for the No Project.
A composite emission factor is calculated using the MOU reported fleet mix and EPA emission factors.
Corridor parameters are daily averages provided by BNSF.
Eastbound uses in state fuel blend.
Westbound uses out-of-state fuel blend.

Out-of-State =	100%	0% RD Blend/Use	In State =	100%	1% RD Blend/Use
Out-of-State =	0% Renewable		In State =	1% Renewable	

Scenario Daily Emissions Summary

Train Type	Total Peak Daily Corridor Criteria Pollutant Emissions [1] (tons/day)						Total Peak Daily Corridor GHG Emissions [1] (metric tons/day)			
Pollutant	**PM10**	**PM2.5**	**VOC**	**NOx**	**CO**	**SOx**	**CO_2**	**N_2O**	**CH_4**	**$CO2e^2$**
Non-Affected Trains	0.031	0.030	0.059	1.519	0.402	0.001	139.6	0.0	0.0	140.9
Affected Trains	0.024	0.023	0.045	1.180	0.312	0.001	108.4	0.0	0.0	109.4
Total	0.055	0.053	0.104	2.699	0.713	0.003	247.9	0.0	0.0	250.3

Direction of Travel	Average Moving Non-Affected Trains Daily Corridor Criteria Pollutant Emissions (tons/day)						Non-Affected Trains Daily Corridor GHG Emissions (metric tons/day)			
Pollutant	**PM10**	**PM2.5**	**VOC**	**NOx**	**CO**	**SOx**	**CO_2**	**N_2O**	**CH_4**	**$CO2e^2$**
Eastbound	0.007	0.007	0.013	0.336	0.089	0.000	30.7	0.0	0.0	31.0
Westbound	0.020	0.019	0.038	0.989	0.261	0.001	90.9	0.0	0.0	91.8
Total	0.027	0.026	0.051	1.325	0.350	0.001	121.7	0.0	0.0	122.8

Direction of Travel	Average Moving Affected Trains Daily Corridor Criteria Pollutant Emissions (tons/day)						Affected Trains Daily Corridor GHG Emissions (metric tons/day)			
Pollutant	**PM10**	**PM2.5**	**VOC**	**NOx**	**CO**	**SOx**	**CO_2**	**N_2O**	**CH_4**	**$CO2e^2$**
Eastbound	0.005	0.005	0.010	0.266	0.070	0.000	24.3	0.0	0.0	24.6
Westbound	0.016	0.015	0.030	0.771	0.204	0.001	70.9	0.0	0.0	71.6
Total	0.021	0.020	0.040	1.037	0.274	0.001	95.2	0.0	0.0	96.2

Train Type	Average Idling Daily Corridor Criteria Pollutant Emissions (tons/day)						Total Idling Daily Corridor GHG Emissions (metric tons/day)			
Pollutant	**PM10**	**PM2.5**	**VOC**	**NOx**	**CO**	**SOx**	**CO_2**	**N_2O**	**CH_4**	**$CO2e^2$**
Non-Affected Trains	4.06E-04	3.94E-04	7.70E-04	2.00E-02	5.29E-03	1.87E-05	1.8	0.0	0.0	1.9
Affected Trains	1.43E-04	1.38E-04	2.70E-04	7.02E-03	1.86E-03	6.55E-06	0.6	0.0	0.0	0.7
Total	5.49E-04	5.32E-04	1.04E-03	2.70E-02	7.14E-03	2.52E-05	2.5	0.0	0.0	2.5

Notes:

1. Peak daily emissions based on 13% safety factor on average daily emissions.

2. Global warming potentials for CO2e based on Table A-1 to Subpart A of Part 98, Title 40. https://www.ecfr.gov/current/title-40/part-98/appendix-Table A-1 to Subpart A of Part 98

CORRIDOR EMISSION CALCULATIONS

No Project Scenario	
Analysis Year	2033

Description:

Analysis of the train movement Eastbound and Westbound for the No Project.
A composite emission factor is calculated using the MOU reported fleet mix and EPA emission factors.
Corridor parameters are daily averages provided by BNSF.
Eastbound uses in state fuel blend.
Westbound uses out-of-state fuel blend.

Out-of-State =	100%	0% RD Blend/Use	In State =	100%	1% RD Blend/Use
Out-of-State =	0% Renewable		In State =	1% Renewable	

Scenario Fleet Parameters

Tier	Locomotive Inventory[1]	Locomotive Fleet Mix (%)[1]	Composite Line-Haul Criteria Pollutant Emission Factors (g/gal)						GHG (g/gal)[2]		
			PM10	PM2.5	VOC	NOx	CO	SOx	CO_2	N_2O	CH_4
Uncontrolled	0	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tier 0	0	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tier 0+	0	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tier 1	0	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tier 1+	943	22.12%	0.92	0.89	1.61	30.82	5.89	0.02	2257.98	0.06	0.18
Tier 2	0	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tier 2+	1589	37.27%	0.62	0.60	1.22	38.37	9.92	0.03	3804.81	0.10	0.30
Tier 3	1198	28.10%	0.47	0.45	0.92	28.93	7.48	0.03	2868.57	0.07	0.22
Tier 4	534	12.52%	0.04	0.04	0.13	2.60	3.33	0.01	1278.64	0.03	0.10
Total - Westbound[3]	**4,264**	**100%**	**2.05**	**1.99**	**3.88**	**100.72**	**26.62**	**0.09**	**10210**	**0.26**	**0.80**
Total - Eastbound[3]	**4,264**	**100%**	**2.04**	**1.98**	**3.87**	**100.60**	**26.58**	**0.09**	**10147**	**0.26**	**0.80**

Notes:

1. Locomotive Inventory based on 2023 CARB 98 MOU.
2. GHG emissions adjusted for 62% reduction for Carbon Intensity for any renewable diesl usage (CARB 2024).
3. Adjusted for alternative fuel blend.

CORRIDOR EMISSION CALCULATIONS

No Project Scenario	
Analysis Year	2033

Description:

Analysis of the train movement Eastbound and Westbound for the No Project.
A composite emission factor is calculated using the MOU reported fleet mix and EPA emission factors.
Corridor parameters are daily averages provided by BNSF.
Eastbound uses in state fuel blend.
Westbound uses out-of-state fuel blend.

Out-of-State =	100%	0% RD Blend/Use	In State =	100%	1% RD Blend/Use
Out-of-State =	0% Renewable		In State =	1% Renewable	

Locomotive Parameters

Locomotive Parameters	Idling Power Rating[1]	Brake Specific Fuel Consumption[2]	Weight of Locomotive Engine[3]	Weight of Fuel[3]
Units	bhp/loco	bhp-hr/gal	tons/loco	tons/loco
Value	25	20.8	209	18

Notes:

1. US EPA 1998, Locomotive Emission Standards, Appendix I. Peak idling power.
2. US EPA 2009, Emission Factors for Locomotives, Table 3.
3. Provided by BNSF.

Scenario Train Parameters[1]

Train Type	Train-Trip Length (Eastbound)	Train-Trip Length (Westbound)	Daily Train Trips (Eastbound)	Daily Train Trips (Westbound)	Locomotives (Eastbound)	Locomotives (Westbound)	Locomotive Weight (Eastbound)	Locomotive Weight (Westbound)	Freight Weight (Eastbound)	Freight Weight (Westbound)	Idling Time (Non-Directional)
Units	miles/trip	miles/trip	train-trips/day	train-trips/day	loco/train	loco/train	tons/train	tons/train	tons/train	tons/train	hours/day
B-Bare Table	167.40	167.40	0.55	1.88	2.00	2.00	454.00	454.00	2405.38	2719.81	0.19
Q-Guaranteed	167.40	167.40	6.36	6.58	2.68	2.66	609.18	603.96	5903.96	5853.32	1.00
S-Stack	167.40	167.40	4.11	5.04	4.43	3.65	1006.08	827.47	9750.60	8019.52	1.29
Z-Z Trains	167.40	167.40	13.88	12.28	3.78	3.39	857.67	770.07	5357.14	4811.96	0.83
NIM-Other Non-Intermodal	167.40	167.40	6.81	7.75	2.80	4.67	636.50	1060.69	6168.76	10279.78	2.63

Notes:

1. Provided By BNSF. Average daily values.

Scenario Fuel Parameters[1]

Train Type	Horsepower per Ton (HPT) (Eastbound)	Horsepower per Ton (HPT) (Westbound)	East Elevation	West Elevation	Segment Length	Grade	Grade	Train Factor	Train Factor	Fuel Efficiency (Eastbound)	Fuel Efficiency (Westbound)
Units	bhp/ton	bhp/ton	ft	ft	mi	Eastbound	Westbound	Eastbound	Westbound	ton-miles/gal	ton-miles/gal
B-Bare Table	2.00	2.00	490	2117	167.40	-0.002	0.002	-0.022	-0.067	356.08	594.45
Q-Guaranteed	2.00	2.00	490	2117	167	-0.002	0.002	0.122	0.109	448.84	729.83
S-Stack	2.00	2.00	490	2117	167	-0.002	0.002	-0.126	-0.022	387.65	654.95
Z-Z Trains	3.10	3.10	490	2117	167	-0.002	0.002	0.083	-0.050	358.36	541.73
NIM-Other Non-Intermodal	2.00	2.00	490	2117	167	-0.002	0.002	-0.057	0.030	377.84	705.39

Notes:

1. Provided By BNSF. Fuel Efficiency based on regression model from 2023 train data.

CORRIDOR EMISSION CALCULATIONS

No Project Scenario	
Analysis Year	2033

Description:

Analysis of the train movement Eastbound and Westbound for the No Project.
A composite emission factor is calculated using the MOU reported fleet mix and EPA emission factors.
Corridor parameters are daily averages provided by BNSF.
Eastbound uses in state fuel blend.
Westbound uses out-of-state fuel blend.

Out-of-State =	100%	0% RD Blend/Use	In State =	100%	1% RD Blend/Use
Out-of-State =	0% Renewable		In State =	1% Renewable	

Scenario Daily Emissions Summary

Train Type	Total Peak Daily Corridor Criteria Pollutant Emissions [1] (tons/day)						Total Peak Daily Corridor GHG Emissions [1] (metric tons/day)			
Pollutant	**PM10**	**PM2.5**	**VOC**	**NOx**	**CO**	**SOx**	**CO_2**	**N_2O**	**CH_4**	**$CO2e^2$**
Non-Affected Trains	0.281	0.273	0.533	13.861	3.663	0.013	1271.1	0.0	0.1	1283.2
Affected Trains	0.171	0.166	0.325	8.439	2.230	0.008	773.7	0.0	0.1	781.1
Total	0.453	0.439	0.858	22.299	5.893	0.021	2044.7	0.1	0.2	2064.3

Direction of Travel	Average Moving Non-Affected Trains Daily Corridor Criteria Pollutant Emissions (tons/day)						Non-Affected Trains Daily Corridor GHG Emissions (metric tons/day)			
Pollutant	**PM10**	**PM2.5**	**VOC**	**NOx**	**CO**	**SOx**	**CO_2**	**N_2O**	**CH_4**	**$CO2e^2$**
Eastbound	0.139	0.135	0.264	6.868	1.815	0.006	628.4	0.0	0.0	634.4
Westbound	0.109	0.106	0.207	5.369	1.419	0.005	493.7	0.0	0.0	498.4
Total	0.248	0.241	0.471	12.236	3.234	0.011	1122.1	0.0	0.1	1132.8

Direction of Travel	Average Moving Affected Trains Daily Corridor Criteria Pollutant Emissions (tons/day)						Affected Trains Daily Corridor GHG Emissions (metric tons/day)			
Pollutant	**PM10**	**PM2.5**	**VOC**	**NOx**	**CO**	**SOx**	**CO_2**	**N_2O**	**CH_4**	**$CO2e^2$**
Eastbound	0.092	0.089	0.175	4.547	1.201	0.004	416.0	0.0	0.0	420.0
Westbound	0.059	0.057	0.112	2.910	0.769	0.003	267.6	0.0	0.0	270.2
Total	0.151	0.147	0.287	7.457	1.971	0.007	683.6	0.0	0.1	690.2

Train Type	Average Idling Daily Corridor Criteria Pollutant Emissions (tons/day)						Total Idling Daily Corridor GHG Emissions (metric tons/day)			
Pollutant	**PM10**	**PM2.5**	**VOC**	**NOx**	**CO**	**SOx**	**CO_2**	**N_2O**	**CH_4**	**$CO2e^2$**
Non-Affected Trains	6.06E-04	5.88E-04	1.15E-03	2.99E-02	7.89E-03	2.79E-05	2.7	0.0	0.0	2.8
Affected Trains	2.24E-04	2.17E-04	4.25E-04	1.10E-02	2.92E-03	1.03E-05	1.0	0.0	0.0	1.0
Total	8.30E-04	8.05E-04	1.57E-03	4.09E-02	1.08E-02	3.82E-05	3.8	0.0	0.0	3.8

Notes:

1. Peak daily emissions based on 13% safety factor on average daily emissions.

2. Global warming potentials for CO2e based on Table A-1 to Subpart A of Part 98, Title 40. https://www.ecfr.gov/current/title-40/part-98/appendix-Table A-1 to Subpart A of Part 98

CORRIDOR EMISSION CALCULATIONS

Proposed Project Scenario	
Analysis Year	2033

Description:

Analysis of the train movement Eastbound and Westbound for the Proposed Project.
A composite emission factor is calculated using the MOU reported fleet mix and EPA emission factors.
Corridor parameters are daily averages provided by BNSF.
Eastbound uses in state fuel blend.
Westbound uses out-of-state fuel blend.

Out-of-State =	100%	0% RD Blend/Use	In State =	100%	10% RD Blend/Use
Out-of-State =	0% Renewable		In State =	10% Renewable	

Scenario Fleet Parameters

Tier	Locomotive Inventory[1]	Locomotive Fleet Mix (%)[1]	Composite Line-Haul Criteria Pollutant Emission Factors (g/gal)						GHG (g/gal)[2]		
			PM10	PM2.5	VOC	NOx	CO	SOx	CO_2	N_2O	CH_4
Uncontrolled	0	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tier 0	0	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tier 0+	0	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tier 1	0	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tier 1+	943	22.12%	0.92	0.89	1.61	30.82	5.89	0.02	2257.98	0.06	0.18
Tier 2	0	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tier 2+	1589	37.27%	0.62	0.60	1.22	38.37	9.92	0.03	3804.81	0.10	0.30
Tier 3	1198	28.10%	0.47	0.45	0.92	28.93	7.48	0.03	2868.57	0.07	0.22
Tier 4	534	12.52%	0.04	0.04	0.13	2.60	3.33	0.01	1278.64	0.03	0.10
Total - Westbound[3]	**4,264**	**100%**	**2.05**	**1.99**	**3.88**	**100.72**	**26.62**	**0.09**	**10210**	**0.26**	**0.80**
Total - Eastbound[3]	**4,264**	**100%**	**1.98**	**1.92**	**3.79**	**99.50**	**26.21**	**0.09**	**9577**	**0.24**	**0.75**

Notes:

1. Locomotive Inventory based on 2023 CARB 98 MOU.
2. GHG emissions adjusted for 62% reduction for Carbon Intensity for any renewable diesl usage (CARB 2024).
3. Adjusted for alternative fuel blend.

Appendix E

CORRIDOR EMISSION CALCULATIONS

Proposed Project Scenario	
Analysis Year	2033

Description:

Analysis of the train movement Eastbound and Westbound for the Proposed Project.
A composite emission factor is calculated using the MOU reported fleet mix and EPA emission factors.
Corridor parameters are daily averages provided by BNSF.
Eastbound uses in state fuel blend.
Westbound uses out-of-state fuel blend.

Out-of-State =	100%	0% RD Blend/Use		In State =	100%	10% RD Blend/Use
Out-of-State =	0% Renewable			In State =	10% Renewable	

Locomotive Parameters

Locomotive Parameters	Idling Power Rating[1]	Brake Specific Fuel Consumption[2]	Weight of Locomotive Engine[3]	Weight of Fuel[3]
Units	bhp/loco	bhp-hr/gal	tons/loco	tons/loco
Value	25	20.8	209	18

Notes:

1. US EPA 1998, Locomotive Emission Standards, Appendix I. Peak idling power.
2. US EPA 2009, Emission Factors for Locomotives, Table 3.
3. Provided by BNSF.

Scenario Train Parameters[1]

Train Type	Train-Trip Length (Eastbound)	Train-Trip Length (Westbound)	Daily Train Trips (Eastbound)	Daily Train Trips (Westbound)	Locomotives (Eastbound)	Locomotives (Westbound)	Locomotive Weight (Eastbound)	Locomotive Weight (Westbound)	Freight Weight (Eastbound)	Freight Weight (Westbound)	Idling Time (Non-Directional)
Units	miles/trip	miles/trip	train-trips/day	train-trips/day	loco/train	loco/train	tons/train	tons/train	tons/train	tons/train	hours/day
B-Bare Table	65.49	66.85	0.39	2.11	2.00	2.00	454.00	454.00	2456.63	2586.85	0.35
Q-Guaranteed	67.77	65.65	3.22	3.35	3.32	2.38	754.64	541.38	5850.98	5246.88	0.41
S-Stack	86.20	86.20	4.06	5.03	5.60	3.49	1271.07	792.43	9854.98	7679.92	1.26
Z-Z Trains	65.08	65.23	6.48	5.15	3.86	3.17	875.71	720.03	5473.26	4605.37	0.89
NIM-Other Non-Intermodal	56.95	58.84	3.49	4.12	3.32	3.37	753.03	764.03	5838.46	7404.69	2.96

Notes:

1. Provided By BNSF. Average daily values.

Scenario Fuel Parameters[1]

Train Type	Horsepower per Ton (HPT) (Eastbound)	Horsepower per Ton (HPT) (Westbound)	East Elevation	West Elevation	Segment Length	Grade	Grade	Train Factor	Train Factor	Fuel Efficiency (Eastbound)	Fuel Efficiency (Westbound)
Units	bhp/ton	bhp/ton	ft	ft	mi	Eastbound	Westbound	Eastbound	Westbound	ton-miles/gal	ton-miles/gal
B-Bare Table	2.50	2.00	1073	17	112	0.002	-0.002	-0.022	-0.067	734.03	1196.11
Q-Guaranteed	2.50	2.00	1073	17	112	0.002	-0.002	0.122	0.109	902.30	1468.25
S-Stack	2.50	2.00	1073	17	112	0.002	-0.002	-0.126	-0.022	634.97	1218.87
Z-Z Trains	3.10	3.03	1073	17	112	0.002	-0.002	0.083	-0.050	806.51	1105.13
NIM-Other Non-Intermodal	2.50	2.00	1073	17	112	0.002	-0.002	-0.057	0.030	853.61	1424.61

Notes:

1. Provided By BNSF. Fuel Efficiency based on regression model from 2023 train data.

CORRIDOR EMISSION CALCULATIONS

Proposed Project Scenario	
Analysis Year	2033

Description:

Analysis of the train movement Eastbound and Westbound for the Proposed Project.
A composite emission factor is calculated using the MOU reported fleet mix and EPA emission factors.
Corridor parameters are daily averages provided by BNSF.
Eastbound uses in state fuel blend.
Westbound uses out-of-state fuel blend.

Out-of-State =	100%	0% RD Blend/Use	In State =	100%	10% RD Blend/Use
Out-of-State =	0% Renewable		In State =	10% Renewable	

Scenario Daily Emissions Summary

Train Type	Total Peak Daily Corridor Criteria Pollutant Emissions [1] (tons/day)						Total Peak Daily Corridor GHG Emissions [1] (metric tons/day)			
Pollutant	**PM10**	**PM2.5**	**VOC**	**NOx**	**CO**	**SOx**	**CO_2**	**N_2O**	**CH_4**	**$CO2e^2$**
Non-Affected Trains	0.021	0.021	0.040	1.057	0.279	0.001	96.6	0.0	0.0	97.6
Affected Trains	0.030	0.029	0.057	1.487	0.392	0.001	132.5	0.0	0.0	133.7
Total	0.051	0.050	0.097	2.544	0.671	0.002	229.1	0.0	0.0	231.3

Direction of Travel	Average Moving Non-Affected Trains Daily Corridor Criteria Pollutant Emissions (tons/day)						Non-Affected Trains Daily Corridor GHG Emissions (metric tons/day)			
Pollutant	**PM10**	**PM2.5**	**VOC**	**NOx**	**CO**	**SOx**	**CO_2**	**N_2O**	**CH_4**	**$CO2e^2$**
Eastbound	0.011	0.010	0.021	0.542	0.143	0.001	52.0	0.0	0.0	52.5
Westbound	0.008	0.007	0.015	0.379	0.100	0.000	32.2	0.0	0.0	32.5
Total	0.019	0.018	0.035	0.921	0.243	0.001	84.2	0.0	0.0	85.0

Direction of Travel	Average Moving Affected Trains Daily Corridor Criteria Pollutant Emissions (tons/day)						Affected Trains Daily Corridor GHG Emissions (metric tons/day)			
Pollutant	**PM10**	**PM2.5**	**VOC**	**NOx**	**CO**	**SOx**	**CO_2**	**N_2O**	**CH_4**	**$CO2e^2$**
Eastbound	0.016	0.016	0.031	0.809	0.213	0.001	70.6	0.0	0.0	71.3
Westbound	0.010	0.010	0.019	0.499	0.132	0.000	45.9	0.0	0.0	46.4
Total	0.026	0.025	0.050	1.308	0.345	0.001	116.5	0.0	0.0	117.6

Train Type	Average Idling Daily Corridor Criteria Pollutant Emissions (tons/day)						Total Idling Daily Corridor GHG Emissions (metric tons/day)			
Pollutant	**PM10**	**PM2.5**	**VOC**	**NOx**	**CO**	**SOx**	**CO_2**	**N_2O**	**CH_4**	**$CO2e^2$**
Non-Affected Trains	2.99E-04	2.90E-04	5.70E-04	1.49E-02	3.92E-03	1.39E-05	1.3	0.0	0.0	1.3
Affected Trains	1.61E-04	1.56E-04	3.06E-04	7.98E-03	2.11E-03	7.49E-06	0.7	0.0	0.0	0.7
Total	4.60E-04	4.46E-04	8.76E-04	2.29E-02	6.03E-03	2.14E-05	2.0	0.0	0.0	2.1

Notes: 4.57E+01

1. Peak daily emissions based on 13% safety factor on average daily emissions.

2. Global warming potentials for CO2e based on Table A-1 to Subpart A of Part 98, Title 40. https://www.ecfr.gov/current/title-40/part-98/appendix-Table A-1 to Subpart A of Part 98

CORRIDOR EMISSION CALCULATIONS

Proposed Project Scenario	
Analysis Year	2033

Description:

Analysis of the train movement Eastbound and Westbound for the Proposed Project.
A composite emission factor is calculated using the MOU reported fleet mix and EPA emission factors.
Corridor parameters are daily averages provided by BNSF.
Eastbound uses in state fuel blend.
Westbound uses out-of-state fuel blend.

Out-of-State =	100%	0% RD Blend/Use	In State =	100%	10% RD Blend/Use
Out-of-State =	0% Renewable		In State =	10% Renewable	

Scenario Fleet Parameters

Tier	Locomotive Inventory[1]	Locomotive Fleet Mix (%)[1]	Composite Line-Haul Criteria Pollutant Emission Factors (g/gal)						GHG (g/gal)[2]		
			PM10	PM2.5	VOC	NOx	CO	SOx	CO_2	N_2O	CH_4
Uncontrolled	0	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tier 0	0	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tier 0+	0	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tier 1	0	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tier 1+	943	22.12%	0.92	0.89	1.61	30.82	5.89	0.02	2257.98	0.06	0.18
Tier 2	0	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tier 2+	1589	37.27%	0.62	0.60	1.22	38.37	9.92	0.03	3804.81	0.10	0.30
Tier 3	1198	28.10%	0.47	0.45	0.92	28.93	7.48	0.03	2868.57	0.07	0.22
Tier 4	534	12.52%	0.04	0.04	0.13	2.60	3.33	0.01	1278.64	0.03	0.10
Total - Westbound[3]	**4,264**	**100%**	**2.05**	**1.99**	**3.88**	**100.72**	**26.62**	**0.09**	**10210**	**0.26**	**0.80**
Total - Eastbound[3]	**4,264**	**100%**	**1.98**	**1.92**	**3.79**	**99.50**	**26.21**	**0.09**	**9577**	**0.24**	**0.75**

Notes:

1. Locomotive Inventory based on 2023 CARB 98 MOU.
2. GHG emissions adjusted for 62% reduction for Carbon Intensity for any renewable diesl usage (CARB 2024).
3. Adjusted for alternative fuel blend.

CORRIDOR EMISSION CALCULATIONS

Proposed Project Scenario	
Analysis Year	2033

Description:

Analysis of the train movement Eastbound and Westbound for the Proposed Project.
A composite emission factor is calculated using the MOU reported fleet mix and EPA emission factors.
Corridor parameters are daily averages provided by BNSF.
Eastbound uses in state fuel blend.
Westbound uses out-of-state fuel blend.

Out-of-State =	100%	0% RD Blend/Use		In State =	100%	10% RD Blend/Use
Out-of-State =	0% Renewable			In State =	10% Renewable	

Locomotive Parameters

Locomotive Parameters	Idling Power Rating[1]	Brake Specific Fuel Consumption[2]	Weight of Locomotive Engine[3]	Weight of Fuel[3]
Units	bhp/loco	bhp-hr/gal	tons/loco	tons/loco
Value	25	20.8	209	18

Notes:

1. US EPA 1998, Locomotive Emission Standards, Appendix I. Peak idling power.
2. US EPA 2009, Emission Factors for Locomotives, Table 3.
3. Provided by BNSF.

Scenario Train Parameters[1]

Train Type	Train-Trip Length (Eastbound)	Train-Trip Length (Westbound)	Daily Train Trips (Eastbound)	Daily Train Trips (Westbound)	Locomotives (Eastbound)	Locomotives (Westbound)	Locomotive Weight (Eastbound)	Locomotive Weight (Westbound)	Freight Weight (Eastbound)	Freight Weight (Westbound)	Idling Time (Non-Directional)
Units	miles/trip	miles/trip	train-trips/day	train-trips/day	loco/train	loco/train	tons/train	tons/train	tons/train	tons/train	hours/day
B-Bare Table	25.20	25.20	0.71	2.86	2.00	2.00	454.00	454.00	2344.22	2684.37	0.35
Q-Guaranteed	25.20	25.20	3.79	4.65	3.35	2.47	759.41	561.52	5887.94	5442.03	0.41
S-Stack	25.20	25.20	4.03	5.01	5.56	3.62	1262.58	821.83	9789.19	7964.85	1.26
Z-Z Trains	25.20	25.20	11.22	8.90	3.94	3.45	894.77	782.51	5592.40	5005.04	0.89
NIM-Other Non-Intermodal	25.20	25.20	5.18	5.79	2.95	3.40	670.10	772.67	5195.49	7488.44	2.96

Notes:

1. Provided By BNSF. Average daily values.

Scenario Fuel Parameters[1]

Train Type	Horsepower per Ton (HPT) (Eastbound)	Horsepower per Ton (HPT) (Westbound)	East Elevation	West Elevation	Segment Length	Grade	Grade	Train Factor	Train Factor	Fuel Efficiency (Eastbound)	Fuel Efficiency (Westbound)
Units	bhp/ton	bhp/ton	ft	ft	mi	Eastbound	Westbound	Eastbound	Westbound	ton-miles/gal	ton-miles/gal
B-Bare Table	2.50	2.00	3775	1073	25	0.020	-0.020	-0.022	-0.067	179.40	6731.05
Q-Guaranteed	2.50	2.00	3775	1073	25	0.020	-0.020	0.122	0.109	227.19	8232.62
S-Stack	2.50	2.00	3775	1073	25	0.020	-0.020	-0.126	-0.022	196.98	7414.45
Z-Z Trains	3.10	3.03	3775	1073	25	0.020	-0.020	0.083	-0.050	197.37	6200.32
NIM-Other Non-Intermodal	2.50	2.00	3775	1073	25	0.020	-0.020	-0.057	0.030	186.40	7769.06

Notes:

1. Provided By BNSF. Fuel Efficiency based on regression model from 2023 train data.

CORRIDOR EMISSION CALCULATIONS

Proposed Project Scenario	
Analysis Year	2033

Description:

Analysis of the train movement Eastbound and Westbound for the Proposed Project.
A composite emission factor is calculated using the MOU reported fleet mix and EPA emission factors.
Corridor parameters are daily averages provided by BNSF.
Eastbound uses in state fuel blend.
Westbound uses out-of-state fuel blend.

Out-of-State =	100%	0% RD Blend/Use	In State =	100%	10% RD Blend/Use
Out-of-State =	0% Renewable		In State =	10% Renewable	

Scenario Daily Emissions Summary

Train Type	Total Peak Daily Corridor Criteria Pollutant Emissions [1] (tons/day)						Total Peak Daily Corridor GHG Emissions [1] (metric tons/day)			
Pollutant	**PM10**	**PM2.5**	**VOC**	**NOx**	**CO**	**SOx**	**CO_2**	**N_2O**	**CH_4**	**$CO2e^2$**
Non-Affected Trains	0.034	0.033	0.065	1.708	0.450	0.002	163.4	0.0	0.0	164.9
Affected Trains	0.026	0.025	0.049	1.295	0.341	0.001	113.3	0.0	0.0	114.3
Total	0.060	0.058	0.115	3.003	0.791	0.003	276.6	0.0	0.0	279.3

Direction of Travel	Average Moving Non-Affected Trains Daily Corridor Criteria Pollutant Emissions (tons/day)						Non-Affected Trains Daily Corridor GHG Emissions (metric tons/day)			
Pollutant	**PM10**	**PM2.5**	**VOC**	**NOx**	**CO**	**SOx**	**CO_2**	**N_2O**	**CH_4**	**$CO2e^2$**
Eastbound	0.029	0.028	0.055	1.445	0.380	0.001	138.8	0.0	0.0	140.1
Westbound	0.001	0.001	0.002	0.045	0.012	0.000	3.8	0.0	0.0	3.8
Total	0.030	0.029	0.057	1.489	0.392	0.001	142.6	0.0	0.0	143.9

Direction of Travel	Average Moving Affected Trains Daily Corridor Criteria Pollutant Emissions (tons/day)						Affected Trains Daily Corridor GHG Emissions (metric tons/day)			
Pollutant	**PM10**	**PM2.5**	**VOC**	**NOx**	**CO**	**SOx**	**CO_2**	**N_2O**	**CH_4**	**$CO2e^2$**
Eastbound	0.022	0.021	0.042	1.104	0.291	0.001	96.4	0.0	0.0	97.3
Westbound	0.001	0.001	0.001	0.034	0.009	0.000	3.1	0.0	0.0	3.1
Total	0.023	0.022	0.043	1.138	0.300	0.001	99.5	0.0	0.0	100.4

Train Type	Average Idling Daily Corridor Criteria Pollutant Emissions (tons/day)						Total Idling Daily Corridor GHG Emissions (metric tons/day)			
Pollutant	**PM10**	**PM2.5**	**VOC**	**NOx**	**CO**	**SOx**	**CO_2**	**N_2O**	**CH_4**	**$CO2e^2$**
Non-Affected Trains	4.55E-04	4.41E-04	8.65E-04	2.26E-02	5.96E-03	2.12E-05	2.0	0.0	0.0	2.0
Affected Trains	1.69E-04	1.64E-04	3.23E-04	8.42E-03	2.22E-03	7.89E-06	0.8	0.0	0.0	0.8
Total	6.24E-04	6.05E-04	1.19E-03	3.10E-02	8.18E-03	2.91E-05	2.8	0.0	0.0	2.8

Notes: 6.20E+01

1. Peak daily emissions based on 13% safety factor on average daily emissions.

2. Global warming potentials for CO2e based on Table A-1 to Subpart A of Part 98, Title 40. https://www.ecfr.gov/current/title-40/part-98/appendix-Table A-1 to Subpart A of Part 98

CORRIDOR EMISSION CALCULATIONS

Proposed Project Scenario	
Analysis Year	2033

Description:

Analysis of the train movement Eastbound and Westbound for the Proposed Project.
A composite emission factor is calculated using the MOU reported fleet mix and EPA emission factors.
Corridor parameters are daily averages provided by BNSF.
Eastbound uses in state fuel blend.
Westbound uses out-of-state fuel blend.

Out-of-State =	100%	0% RD Blend/Use	In State =	100%	10% RD Blend/Use
Out-of-State =	0% Renewable		In State =	10% Renewable	

Scenario Fleet Parameters

Tier	Locomotive Inventory[1]	Locomotive Fleet Mix (%)[1]	Composite Line-Haul Criteria Pollutant Emission Factors (g/gal)						GHG (g/gal)[2]		
			PM10	PM2.5	VOC	NOx	CO	SOx	CO_2	N_2O	CH_4
Uncontrolled	0	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tier 0	0	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tier 0+	0	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tier 1	0	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tier 1+	943	22.12%	0.92	0.89	1.61	30.82	5.89	0.02	2257.98	0.06	0.18
Tier 2	0	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tier 2+	1589	37.27%	0.62	0.60	1.22	38.37	9.92	0.03	3804.81	0.10	0.30
Tier 3	1198	28.10%	0.47	0.45	0.92	28.93	7.48	0.03	2868.57	0.07	0.22
Tier 4	534	12.52%	0.04	0.04	0.13	2.60	3.33	0.01	1278.64	0.03	0.10
Total - Westbound[3]	**4,264**	**100%**	**2.05**	**1.99**	**3.88**	**100.72**	**26.62**	**0.09**	**10210**	**0.26**	**0.80**
Total - Eastbound[3]	**4,264**	**100%**	**1.98**	**1.92**	**3.79**	**99.50**	**26.21**	**0.09**	**9577**	**0.24**	**0.75**

Notes:

1. Locomotive Inventory based on 2023 CARB 98 MOU.
2. GHG emissions adjusted for 62% reduction for Carbon Intensity for any renewable diesl usage (CARB 2024).
3. Adjusted for alternative fuel blend.

CORRIDOR EMISSION CALCULATIONS

Proposed Project Scenario	
Analysis Year	2033

Description:

Analysis of the train movement Eastbound and Westbound for the Proposed Project.
A composite emission factor is calculated using the MOU reported fleet mix and EPA emission factors.
Corridor parameters are daily averages provided by BNSF.
Eastbound uses in state fuel blend.
Westbound uses out-of-state fuel blend.

Out-of-State =	100%	0% RD Blend/Use	In State =	100%	10% RD Blend/Use
Out-of-State =	0% Renewable		In State =	10% Renewable	

Locomotive Parameters

Locomotive Parameters	Idling Power Rating[1]	Brake Specific Fuel Consumption[2]	Weight of Locomotive Engine[3]	Weight of Fuel[3]
Units	bhp/loco	bhp-hr/gal	tons/loco	tons/loco
Value	25	20.8	209	18

Notes:

1. US EPA 1998, Locomotive Emission Standards, Appendix I. Peak idling power.
2. US EPA 2009, Emission Factors for Locomotives, Table 3.
3. Provided by BNSF.

Scenario Train Parameters[1]

Train Type	Train-Trip Length (Eastbound)	Train-Trip Length (Westbound)	Daily Train Trips (Eastbound)	Daily Train Trips (Westbound)	Locomotives (Eastbound)	Locomotives (Westbound)	Locomotive Weight (Eastbound)	Locomotive Weight (Westbound)	Freight Weight (Eastbound)	Freight Weight (Westbound)	Idling Time (Non-Directional)
Units	miles/trip	miles/trip	train-trips/day	train-trips/day	loco/train	loco/train	tons/train	tons/train	tons/train	tons/train	hours/day
B-Bare Table	56.10	56.10	0.70	2.85	2.00	2.00	454.00	454.00	2307.42	2681.37	0.15
Q-Guaranteed	56.10	56.10	3.79	4.66	3.35	2.48	759.40	562.39	5887.87	5450.50	0.45
S-Stack	56.10	56.10	4.03	5.01	5.56	3.62	1263.07	821.52	9792.95	7961.87	0.67
Z-Z Trains	56.10	56.10	11.22	8.90	3.94	3.45	894.78	782.87	5592.45	5007.35	0.35
NIM-Other Non-Intermodal	56.10	56.10	5.02	5.64	2.93	3.39	665.23	768.58	5157.71	7448.78	3.48

Notes:

1. Provided By BNSF. Average daily values.

Scenario Fuel Parameters[1]

Train Type	Horsepower per Ton (HPT) (Eastbound)	Horsepower per Ton (HPT) (Westbound)	East Elevation	West Elevation	Segment Length	Grade	Grade	Train Factor	Train Factor	Fuel Efficiency (Eastbound)	Fuel Efficiency (Westbound)
Units	bhp/ton	bhp/ton	ft	ft	mi	Eastbound	Westbound	Eastbound	Westbound	ton-miles/gal	ton-miles/gal
B-Bare Table	2.50	2.00	2117	3775	56	-0.006	0.006	-0.022	-0.067	1715.52	669.51
Q-Guaranteed	2.50	2.00	2117	3775	56	-0.006	0.006	0.122	0.109	2174.46	818.95
S-Stack	2.50	2.00	2117	3775	56	-0.006	0.006	-0.126	-0.022	1885.46	737.48
Z-Z Trains	3.10	3.03	2117	3775	56	-0.006	0.006	0.083	-0.050	1889.07	616.75
NIM-Other Non-Intermodal	2.50	2.00	2117	3775	56	-0.006	0.006	-0.057	0.030	1782.18	772.47

Notes:

1. Provided By BNSF. Fuel Efficiency based on regression model from 2023 train data.

CORRIDOR EMISSION CALCULATIONS

Proposed Project Scenario	
Analysis Year	2033

Description:

Analysis of the train movement Eastbound and Westbound for the Proposed Project.
A composite emission factor is calculated using the MOU reported fleet mix and EPA emission factors.
Corridor parameters are daily averages provided by BNSF.
Eastbound uses in state fuel blend.
Westbound uses out-of-state fuel blend.

Out-of-State =	100%	0% RD Blend/Use	In State =	100%	10% RD Blend/Use
Out-of-State =	0% Renewable		In State =	10% Renewable	

Scenario Daily Emissions Summary

Train Type	Total Peak Daily Corridor Criteria Pollutant Emissions [1] (tons/day)						Total Peak Daily Corridor GHG Emissions [1] (metric tons/day)			
Pollutant	**PM10**	**PM2.5**	**VOC**	**NOx**	**CO**	**SOx**	**CO_2**	**N_2O**	**CH_4**	**$CO2e^2$**
Non-Affected Trains	0.031	0.030	0.058	1.514	0.400	0.001	137.5	0.0	0.0	138.8
Affected Trains	0.023	0.022	0.044	1.147	0.303	0.001	104.1	0.0	0.0	105.1
Total	0.054	0.052	0.102	2.661	0.703	0.002	241.6	0.0	0.0	243.9

Direction of Travel	Average Moving Non-Affected Trains Daily Corridor Criteria Pollutant Emissions (tons/day)						Non-Affected Trains Daily Corridor GHG Emissions (metric tons/day)			
Pollutant	**PM10**	**PM2.5**	**VOC**	**NOx**	**CO**	**SOx**	**CO_2**	**N_2O**	**CH_4**	**$CO2e^2$**
Eastbound	0.007	0.006	0.013	0.332	0.088	0.000	29.0	0.0	0.0	29.3
Westbound	0.020	0.019	0.038	0.989	0.261	0.001	90.9	0.0	0.0	91.8
Total	0.027	0.026	0.051	1.321	0.349	0.001	119.9	0.0	0.0	121.1

Direction of Travel	Average Moving Affected Trains Daily Corridor Criteria Pollutant Emissions (tons/day)						Affected Trains Daily Corridor GHG Emissions (metric tons/day)			
Pollutant	**PM10**	**PM2.5**	**VOC**	**NOx**	**CO**	**SOx**	**CO_2**	**N_2O**	**CH_4**	**$CO2e^2$**
Eastbound	0.005	0.005	0.010	0.257	0.068	0.000	22.4	0.0	0.0	22.6
Westbound	0.015	0.015	0.029	0.753	0.199	0.001	69.2	0.0	0.0	69.9
Total	0.020	0.020	0.039	1.010	0.267	0.001	91.7	0.0	0.0	92.5

Train Type	Average Idling Daily Corridor Criteria Pollutant Emissions (tons/day)						Total Idling Daily Corridor GHG Emissions (metric tons/day)			
Pollutant	**PM10**	**PM2.5**	**VOC**	**NOx**	**CO**	**SOx**	**CO_2**	**N_2O**	**CH_4**	**$CO2e^2$**
Non-Affected Trains	3.84E-04	3.72E-04	7.30E-04	1.90E-02	5.03E-03	1.79E-05	1.7	0.0	0.0	1.7
Affected Trains	1.05E-04	1.01E-04	1.99E-04	5.19E-03	1.37E-03	4.87E-06	0.5	0.0	0.0	0.5
Total	4.88E-04	4.73E-04	9.29E-04	2.42E-02	6.40E-03	2.27E-05	2.2	0.0	0.0	2.2

Notes:

1. Peak daily emissions based on 13% safety factor on average daily emissions.

2. Global warming potentials for CO2e based on Table A-1 to Subpart A of Part 98, Title 40. https://www.ecfr.gov/current/title-40/part-98/appendix-Table A-1 to Subpart A of Part 98

CORRIDOR EMISSION CALCULATIONS

Proposed Project Scenario	
Analysis Year	2033

Description:

Analysis of the train movement Eastbound and Westbound for the Proposed Project.
A composite emission factor is calculated using the MOU reported fleet mix and EPA emission factors.
Corridor parameters are daily averages provided by BNSF.
Eastbound uses in state fuel blend.
Westbound uses out-of-state fuel blend.

Out-of-State =	100%	0% RD Blend/Use	In State =	100%	10% RD Blend/Use
Out-of-State =	0% Renewable		In State =	10% Renewable	

Scenario Fleet Parameters

Tier	Locomotive Inventory[1]	Locomotive Fleet Mix (%)[1]	Composite Line-Haul Criteria Pollutant Emission Factors (g/gal)						GHG (g/gal)[2]		
			PM10	PM2.5	VOC	NOx	CO	SOx	CO_2	N_2O	CH_4
Uncontrolled	0	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tier 0	0	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tier 0+	0	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tier 1	0	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tier 1+	943	22.12%	0.92	0.89	1.61	30.82	5.89	0.02	2257.98	0.06	0.18
Tier 2	0	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tier 2+	1589	37.27%	0.62	0.60	1.22	38.37	9.92	0.03	3804.81	0.10	0.30
Tier 3	1198	28.10%	0.47	0.45	0.92	28.93	7.48	0.03	2868.57	0.07	0.22
Tier 4	534	12.52%	0.04	0.04	0.13	2.60	3.33	0.01	1278.64	0.03	0.10
Total - Westbound[3]	**4,264**	**100%**	**2.05**	**1.99**	**3.88**	**100.72**	**26.62**	**0.09**	**10210**	**0.26**	**0.80**
Total - Eastbound[3]	**4,264**	**100%**	**1.98**	**1.92**	**3.79**	**99.50**	**26.21**	**0.09**	**9577**	**0.24**	**0.75**

Notes:

1. Locomotive Inventory based on 2023 CARB 98 MOU.
2. GHG emissions adjusted for 62% reduction for Carbon Intensity for any renewable diesl usage (CARB 2024).
3. Adjusted for alternative fuel blend.

CORRIDOR EMISSION CALCULATIONS

Proposed Project Scenario	
Analysis Year	2033

Description:

Analysis of the train movement Eastbound and Westbound for the Proposed Project.
A composite emission factor is calculated using the MOU reported fleet mix and EPA emission factors.
Corridor parameters are daily averages provided by BNSF.
Eastbound uses in state fuel blend.
Westbound uses out-of-state fuel blend.

Out-of-State =	100%	0% RD Blend/Use	In State =	100%	10% RD Blend/Use
Out-of-State =	0% Renewable		In State =	10% Renewable	

Locomotive Parameters

Locomotive Parameters	Idling Power Rating[1]	Brake Specific Fuel Consumption[2]	Weight of Locomotive Engine[3]	Weight of Fuel[3]
Units	bhp/loco	bhp-hr/gal	tons/loco	tons/loco
Value	25	20.8	209	18

Notes:

1. US EPA 1998, Locomotive Emission Standards, Appendix I. Peak idling power.
2. US EPA 2009, Emission Factors for Locomotives, Table 3.
3. Provided by BNSF.

Scenario Train Parameters[1]

Train Type	Train-Trip Length (Eastbound)	Train-Trip Length (Westbound)	Daily Train Trips (Eastbound)	Daily Train Trips (Westbound)	Locomotives (Eastbound)	Locomotives (Westbound)	Locomotive Weight (Eastbound)	Locomotive Weight (Westbound)	Freight Weight (Eastbound)	Freight Weight (Westbound)	Idling Time (Non-Directional)
Units	miles/trip	miles/trip	train-trips/day	train-trips/day	loco/train	loco/train	tons/train	tons/train	tons/train	tons/train	hours/day
B-Bare Table	167.40	167.40	0.55	1.88	2.00	2.00	454.00	454.00	2405.38	2719.81	0.52
Q-Guaranteed	167.40	167.40	9.08	9.39	2.68	2.66	609.18	603.96	5903.96	5853.32	0.92
S-Stack	167.40	167.40	4.11	5.04	4.43	3.65	1006.08	827.47	9750.60	8019.52	1.16
Z-Z Trains	167.40	167.40	13.88	12.28	3.78	3.39	857.67	770.07	5357.14	4811.96	0.94
NIM-Other Non-Intermodal	167.40	167.40	6.81	7.75	2.80	4.67	636.50	1060.69	6168.76	10279.78	2.69

Notes:

1. Provided By BNSF. Average daily values.

Scenario Fuel Parameters[1]

Train Type	Horsepower per Ton (HPT) (Eastbound)	Horsepower per Ton (HPT) (Westbound)	East Elevation	West Elevation	Segment Length	Grade	Grade	Train Factor	Train Factor	Fuel Efficiency (Eastbound)	Fuel Efficiency (Westbound)
Units	bhp/ton	bhp/ton	ft	ft	mi	Eastbound	Westbound	Eastbound	Westbound	ton-miles/gal	ton-miles/gal
B-Bare Table	2.00	2.00	490	2117	167.40	-0.002	0.002	-0.022	-0.067	356.08	594.45
Q-Guaranteed	2.00	2.00	490	2117	167.40	-0.002	0.002	0.122	0.109	448.84	729.83
S-Stack	2.00	2.00	490	2117	167.40	-0.002	0.002	-0.126	-0.022	387.65	654.95
Z-Z Trains	3.10	3.10	490	2117	167.40	-0.002	0.002	0.083	-0.050	358.36	541.73
NIM-Other Non-Intermodal	2.00	2.00	490	2117	167.40	-0.002	0.002	-0.057	0.030	377.84	705.39

Notes:

1. Provided By BNSF. Fuel Efficiency based on regression model from 2023 train data.

CORRIDOR EMISSION CALCULATIONS

Proposed Project Scenario	
Analysis Year	2033

Description:

Analysis of the train movement Eastbound and Westbound for the Proposed Project.
A composite emission factor is calculated using the MOU reported fleet mix and EPA emission factors.
Corridor parameters are daily averages provided by BNSF.
Eastbound uses in state fuel blend.
Westbound uses out-of-state fuel blend.

Out-of-State =	100%	0% RD Blend/Use	In State =	100%	10% RD Blend/Use
Out-of-State =	0% Renewable		In State =	10% Renewable	

Scenario Daily Emissions Summary

Train Type	Total Peak Daily Corridor Criteria Pollutant Emissions [1] (tons/day)						Total Peak Daily Corridor GHG Emissions [1] (metric tons/day)			
Pollutant	**PM10**	**PM2.5**	**VOC**	**NOx**	**CO**	**SOx**	**CO_2**	**N_2O**	**CH_4**	**$CO2e^2$**
Non-Affected Trains	0.277	0.269	0.528	13.778	3.635	0.013	1231.3	0.0	0.1	1243.0
Affected Trains	0.202	0.196	0.385	10.057	2.653	0.009	896.4	0.0	0.1	904.9
Total	0.479	0.465	0.913	23.835	6.287	0.022	2127.7	0.1	0.2	2148.0

Direction of Travel	Average Moving Non-Affected Trains Daily Corridor Criteria Pollutant Emissions (tons/day)						Non-Affected Trains Daily Corridor GHG Emissions (metric tons/day)			
Pollutant	**PM10**	**PM2.5**	**VOC**	**NOx**	**CO**	**SOx**	**CO_2**	**N_2O**	**CH_4**	**$CO2e^2$**
Eastbound	0.135	0.131	0.259	6.793	1.789	0.006	593.1	0.0	0.0	598.8
Westbound	0.109	0.106	0.207	5.369	1.419	0.005	493.7	0.0	0.0	498.4
Total	0.245	0.237	0.466	12.161	3.208	0.011	1086.8	0.0	0.1	1097.2

Direction of Travel	Average Moving Affected Trains Daily Corridor Criteria Pollutant Emissions (tons/day)						Affected Trains Daily Corridor GHG Emissions (metric tons/day)			
Pollutant	**PM10**	**PM2.5**	**VOC**	**NOx**	**CO**	**SOx**	**CO_2**	**N_2O**	**CH_4**	**$CO2e^2$**
Eastbound	0.108	0.105	0.206	5.410	1.425	0.005	472.4	0.0	0.0	476.9
Westbound	0.071	0.069	0.134	3.477	0.919	0.003	319.8	0.0	0.0	322.8
Total	0.179	0.173	0.340	8.888	2.344	0.008	792.2	0.0	0.1	799.7

Train Type	Average Idling Daily Corridor Criteria Pollutant Emissions (tons/day)						Total Idling Daily Corridor GHG Emissions (metric tons/day)			
Pollutant	**PM10**	**PM2.5**	**VOC**	**NOx**	**CO**	**SOx**	**CO_2**	**N_2O**	**CH_4**	**$CO2e^2$**
Non-Affected Trains	6.34E-04	6.15E-04	1.21E-03	3.15E-02	8.31E-03	2.95E-05	2.8	0.0	0.0	2.9
Affected Trains	2.41E-04	2.34E-04	4.59E-04	1.20E-02	3.16E-03	1.12E-05	1.1	0.0	0.0	1.1
Total	8.76E-04	8.49E-04	1.67E-03	4.35E-02	1.15E-02	4.08E-05	3.9	0.0	0.0	3.9

Notes:

1. Peak daily emissions based on 13% safety factor on average daily emissions.

2. Global warming potentials for CO2e based on Table A-1 to Subpart A of Part 98, Title 40. https://www.ecfr.gov/current/title-40/part-98/appendix-Table A-1 to Subpart A of Part 98

CORRIDOR EMISSION CALCULATIONS

Proposed Project Scenario	
Analysis Year	2033

Description:

Analysis of the train movement Eastbound and Westbound for the Proposed Project Dedicated Fleet.
A composite emission factor is calculated using the MOU reported fleet mix and EPA emission factors.
Corridor parameters are daily averages provided by BNSF.
Eastbound uses in state fuel blend.
Westbound uses out-of-state fuel blend.

Out-of-State =	100%	0%	RD Blend/Use	In State =	100%	10%	RD Blend/Use
Out-of-State =	0%	Renewable		In State =	10%	Renewable	

Scenario Fleet Parameters

Tier	Locomotive Inventory[1]	Locomotive Fleet Mix (%)[1]	Composite Line-Haul Criteria Pollutant Emission Factors (g/gal)						GHG (g/gal)[2]		
			PM10	PM2.5	VOC	NOx	CO	SOx	CO_2	N_2O	CH_4
Uncontrolled	0	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tier 0	0	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tier 0+	0	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tier 1	0	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tier 1+	0	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tier 2	0	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tier 2+	0	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tier 3	0	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tier 4	25	100.00%	0.31	0.30	1.01	20.80	26.62	0.09	10210.00	0.26	0.80
Total - Westbound[3]	**25**	**100%**	**0.31**	**0.30**	**1.01**	**20.80**	**26.62**	**0.09**	**10210**	**0.26**	**0.80**
Total - Eastbound[3]	**25**	**100%**	**0.30**	**0.29**	**0.98**	**20.55**	**26.21**	**0.09**	**9577**	**0.24**	**0.75**

Notes:

1. Locomotive Inventory based on 2023 CARB 98 MOU.
2. GHG emissions adjusted for 62% reduction for Carbon Intensity for any renewable diesl usage (CARB 2024).
3. Adjusted for alternative fuel blend.

CORRIDOR EMISSION CALCULATIONS

Proposed Project Scenario	
Analysis Year	2033

Description:

Analysis of the train movement Eastbound and Westbound for the Proposed Project Dedicated Fleet.
A composite emission factor is calculated using the MOU reported fleet mix and EPA emission factors.
Corridor parameters are daily averages provided by BNSF.
Eastbound uses in state fuel blend.
Westbound uses out-of-state fuel blend.

Out-of-State =	100%	0%	RD Blend/Use	In State =	100%	10%	RD Blend/Use
Out-of-State =	0%	Renewable		In State =	10%	Renewable	

Locomotive Parameters

Locomotive Parameters	Idling Power Rating[1]	Brake Specific Fuel Consumption[2]	Weight of Locomotive Engine[3]	Weight of Fuel[3]
Units	bhp/loco	bhp-hr/gal	tons/loco	tons/loco
Value	25	20.8	209	18

Notes:

1. US EPA 1998, Locomotive Emission Standards, Appendix I. Peak idling power.
2. US EPA 2009, Emission Factors for Locomotives, Table 3.
3. Provided by BNSF.

Scenario Train Parameters[1]

Train Type	Train-Trip Length (Eastbound)	Train-Trip Length (Westbound)	Daily Train Trips (Eastbound)	Daily Train Trips (Westbound)	Locomotives (Eastbound)	Locomotives (Westbound)	Locomotive Weight (Eastbound)	Locomotive Weight (Westbound)	Freight Weight (Eastbound)	Freight Weight (Westbound)	Idling Time (Non-Directional)
Units	miles/trip	miles/trip	train-trips/day	train-trips/day	loco/train	loco/train	tons/train	tons/train	tons/train	tons/train	hours/day
S-BAR6	86.20	86.20	1.92	2.38	5.60	3.49	1271.07	792.43	9854.98	7679.92	1.26

Notes:

1. Provided By BNSF. Average daily values.

Scenario Fuel Parameters[1]

Train Type	Horsepower per Ton (HPT) (Eastbound)	Horsepower per Ton (HPT) (Westbound)	East Elevation	West Elevation	Segment Length	Grade	Grade	Train Factor	Train Factor	Fuel Efficiency (Eastbound)	Fuel Efficiency (Westbound)
Units	bhp/ton	bhp/ton	ft	ft	mi	Eastbound	Westbound	Eastbound	Westbound	ton-miles/gal	ton-miles/gal
S-BAR6	2.50	2.00	1073	17	112	0.002	-0.002	-0.126	-0.022	634.97	1218.87

Notes:

1. Provided By BNSF. Fuel Efficiency based on regression model from 2023 train data.

CORRIDOR EMISSION CALCULATIONS

Proposed Project Scenario	
Analysis Year	2033

Description:

Analysis of the train movement Eastbound and Westbound for the Proposed Project Dedicated Fleet.
A composite emission factor is calculated using the MOU reported fleet mix and EPA emission factors.
Corridor parameters are daily averages provided by BNSF.
Eastbound uses in state fuel blend.
Westbound uses out-of-state fuel blend.

Out-of-State =	100%	0% RD Blend/Use		In State =	100%	10% RD Blend/Use
Out-of-State =	0% Renewable			In State =	10% Renewable	

Scenario Daily Emissions Summary

Train Type	Total Peak Daily Corridor Criteria Pollutant Emissions [1] (tons/day)						Total Peak Daily Corridor GHG Emissions [1] (metric tons/day)			
Pollutant	**PM10**	**PM2.5**	**VOC**	**NOx**	**CO**	**SOx**	**CO_2**	**N_2O**	**CH_4**	**$CO2e^2$**
Non-Affected Trains	0.000	0.000	0.000	0.000	0.000	0.000	0.0	0.0	0.0	0.0
Affected Trains	0.002	0.002	0.005	0.112	0.143	0.001	48.2	0.0	0.0	48.6
Total	0.002	0.002	0.005	0.112	0.143	0.001	48.2	0.0	0.0	48.6

Direction of Travel	Average Moving Non-Affected Trains Daily Corridor Criteria Pollutant Emissions (tons/day)						Non-Affected Trains Daily Corridor GHG Emissions (metric tons/day)			
Pollutant	**PM10**	**PM2.5**	**VOC**	**NOx**	**CO**	**SOx**	**CO_2**	**N_2O**	**CH_4**	**$CO2e^2$**
Eastbound	0.000	0.000	0.000	0.000	0.000	0.000	0.0	0.0	0.0	0.0
Westbound	0.000	0.000	0.000	0.000	0.000	0.000	0.0	0.0	0.0	0.0
Total	0.000	0.000	0.000	0.000	0.000	0.000	0.0	0.0	0.0	0.0

Direction of Travel	Average Moving Affected Trains Daily Corridor Criteria Pollutant Emissions (tons/day)						Affected Trains Daily Corridor GHG Emissions (metric tons/day)			
Pollutant	**PM10**	**PM2.5**	**VOC**	**NOx**	**CO**	**SOx**	**CO_2**	**N_2O**	**CH_4**	**$CO2e^2$**
Eastbound	0.001	0.001	0.003	0.066	0.084	0.000	27.8	0.0	0.0	28.0
Westbound	0.000	0.000	0.002	0.033	0.042	0.000	14.6	0.0	0.0	14.7
Total	0.001	0.001	0.005	0.098	0.126	0.000	42.3	0.0	0.0	42.7

Train Type	Average Idling Daily Corridor Criteria Pollutant Emissions (tons/day)						Total Idling Daily Corridor GHG Emissions (metric tons/day)			
Pollutant	**PM10**	**PM2.5**	**VOC**	**NOx**	**CO**	**SOx**	**CO_2**	**N_2O**	**CH_4**	**$CO2e^2$**
Non-Affected Trains	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.0	0.0	0.0	0.0
Affected Trains	9.77E-06	9.47E-06	3.17E-05	6.57E-04	8.40E-04	2.99E-06	0.3	0.0	0.0	0.3
Total	9.77E-06	9.47E-06	3.17E-05	6.57E-04	8.40E-04	2.99E-06	0.3	0.0	0.0	0.3

Notes:

1. Peak daily emissions based on 13% safety factor on average daily emissions.

2. Global warming potentials for CO2e based on Table A-1 to Subpart A of Part 98, Title 40. https://www.ecfr.gov/current/title-40/part-98/appendix-Table A-1 to Subpart A of Part 98

CORRIDOR EMISSION CALCULATIONS

Proposed Project Scenario	
Analysis Year	2033

Description:

Analysis of the train movement Eastbound and Westbound for the Proposed Project Dedicated Fleet.
A composite emission factor is calculated using the MOU reported fleet mix and EPA emission factors.
Corridor parameters are daily averages provided by BNSF.
Eastbound uses in state fuel blend.
Westbound uses out-of-state fuel blend.

Out-of-State =	100%	0% RD Blend/Use	In State =	100%	10% RD Blend/Use
Out-of-State =	0% Renewable		In State =	10% Renewable	

Scenario Fleet Parameters

Tier	Locomotive Inventory[1]	Locomotive Fleet Mix (%)[1]	Composite Line-Haul Criteria Pollutant Emission Factors (g/gal)						GHG (g/gal)[2]		
			PM10	PM2.5	VOC	NOx	CO	SOx	CO_2	N_2O	CH_4
Uncontrolled	0	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tier 0	0	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tier 0+	0	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tier 1	0	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tier 1+	0	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tier 2	0	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tier 2+	0	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tier 3	0	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tier 4	25	100.00%	0.31	0.30	1.01	20.80	26.62	0.09	10210.00	0.26	0.80
Total - Westbound[3]	**25**	**100%**	**0.31**	**0.30**	**1.01**	**20.80**	**26.62**	**0.09**	**10210**	**0.26**	**0.80**
Total - Eastbound[3]	**25**	**100%**	**0.30**	**0.29**	**0.98**	**20.55**	**26.21**	**0.09**	**9577**	**0.24**	**0.75**

Notes:

1. Locomotive Inventory based on 2023 CARB 98 MOU.
2. GHG emissions adjusted for 62% reduction for Carbon Intensity for any renewable diesl usage (CARB 2024).
3. Adjusted for alternative fuel blend.

CORRIDOR EMISSION CALCULATIONS

Proposed Project Scenario	
Analysis Year	2033

Description:

Analysis of the train movement Eastbound and Westbound for the Proposed Project Dedicated Fleet.
A composite emission factor is calculated using the MOU reported fleet mix and EPA emission factors.
Corridor parameters are daily averages provided by BNSF.
Eastbound uses in state fuel blend.
Westbound uses out-of-state fuel blend.

Out-of-State =	100%	0%	RD Blend/Use	In State =	100%	10%	RD Blend/Use
Out-of-State =	0%	Renewable		In State =	10%	Renewable	

Locomotive Parameters

Locomotive Parameters	Idling Power Rating[1]	Brake Specific Fuel Consumption[2]	Weight of Locomotive Engine[3]	Weight of Fuel[3]
Units	bhp/loco	bhp-hr/gal	tons/loco	tons/loco
Value	25	20.8	209	18

Notes:

1. US EPA 1998, Locomotive Emission Standards, Appendix I. Peak idling power.
2. US EPA 2009, Emission Factors for Locomotives, Table 3.
3. Provided by BNSF.

Scenario Train Parameters[1]

Train Type	Train-Trip Length (Eastbound)	Train-Trip Length (Westbound)	Daily Train Trips (Eastbound)	Daily Train Trips (Westbound)	Locomotives (Eastbound)	Locomotives (Westbound)	Locomotive Weight (Eastbound)	Locomotive Weight (Westbound)	Freight Weight (Eastbound)	Freight Weight (Westbound)	Idling Time (Non-Directional)
Units	miles/trip	miles/trip	train-trips/day	train-trips/day	loco/train	loco/train	tons/train	tons/train	tons/train	tons/train	hours/day
S-BAR6	25.20	25.20	1.90	2.37	5.56	3.62	1262.58	821.83	9789.19	7964.85	1.26

Notes:

1. Provided By BNSF. Average daily values.

Scenario Fuel Parameters[1]

Train Type	Horsepower per Ton (HPT) (Eastbound)	Horsepower per Ton (HPT) (Westbound)	East Elevation	West Elevation	Segment Length	Grade	Grade	Train Factor	Train Factor	Fuel Efficiency (Eastbound)	Fuel Efficiency (Westbound)
Units	bhp/ton	bhp/ton	ft	ft	mi	Eastbound	Westbound	Eastbound	Westbound	ton-miles/gal	ton-miles/gal
S-BAR6	2.50	2.00	3775	1073	25	0.020	-0.020	-0.126	-0.022	196.98	7414.45

Notes:

1. Provided By BNSF. Fuel Efficiency based on regression model from 2023 train data.

CORRIDOR EMISSION CALCULATIONS

Proposed Project Scenario	
Analysis Year	2033

Description:

Analysis of the train movement Eastbound and Westbound for the Proposed Project Dedicated Fleet.
A composite emission factor is calculated using the MOU reported fleet mix and EPA emission factors.
Corridor parameters are daily averages provided by BNSF.
Eastbound uses in state fuel blend.
Westbound uses out-of-state fuel blend.

Out-of-State =	100%	0% RD Blend/Use		In State =	100%	10% RD Blend/Use
Out-of-State =	0% Renewable			In State =	10% Renewable	

Scenario Daily Emissions Summary

Train Type	Total Peak Daily Corridor Criteria Pollutant Emissions [1]						Total Peak Daily Corridor GHG Emissions [1]			
Pollutant	**PM10**	**PM2.5**	**VOC**	**NOx**	**CO**	**SOx**	**CO_2**	**N_2O**	**CH_4**	**$CO2e^2$**
Non-Affected Trains	0.000	0.000	0.000	0.000	0.000	0.000	0.0	0.0	0.0	0.0
Affected Trains	0.001	0.001	0.003	0.071	0.091	0.000	30.3	0.0	0.0	30.6
Total	0.001	0.001	0.003	0.071	0.091	0.000	30.3	0.0	0.0	30.6

Direction of Travel	Average Moving Non-Affected Trains Daily Corridor Criteria Pollutant Emissions						Non-Affected Trains Daily Corridor GHG Emissions			
Pollutant	**PM10**	**PM2.5**	**VOC**	**NOx**	**CO**	**SOx**	**CO_2**	**N_2O**	**CH_4**	**$CO2e^2$**
Eastbound	0.000	0.000	0.000	0.000	0.000	0.000	0.0	0.0	0.0	0.0
Westbound	0.000	0.000	0.000	0.000	0.000	0.000	0.0	0.0	0.0	0.0
Total	0.000	0.000	0.000	0.000	0.000	0.000	0.0	0.0	0.0	0.0

Direction of Travel	Average Moving Affected Trains Daily Corridor Criteria Pollutant Emissions						Affected Trains Daily Corridor GHG Emissions			
Pollutant	**PM10**	**PM2.5**	**VOC**	**NOx**	**CO**	**SOx**	**CO_2**	**N_2O**	**CH_4**	**$CO2e^2$**
Eastbound	0.001	0.001	0.003	0.061	0.078	0.000	25.8	0.0	0.0	26.0
Westbound	0.000	0.000	0.000	0.002	0.002	0.000	0.7	0.0	0.0	0.7
Total	0.001	0.001	0.003	0.063	0.080	0.000	26.5	0.0	0.0	26.8

Train Type	Average Idling Daily Corridor Criteria Pollutant Emissions						Total Idling Daily Corridor GHG Emissions			
Pollutant	**PM10**	**PM2.5**	**VOC**	**NOx**	**CO**	**SOx**	**CO_2**	**N_2O**	**CH_4**	**$CO2e^2$**
Non-Affected Trains	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.0	0.0	0.0	0.0
Affected Trains	9.82E-06	9.53E-06	3.18E-05	6.61E-04	8.44E-04	3.00E-06	0.3	0.0	0.0	0.3
Total	9.82E-06	9.53E-06	3.18E-05	6.61E-04	8.44E-04	3.00E-06	0.3	0.0	0.0	0.3

Notes:

1. Peak daily emissions based on 13% safety factor on average daily emissions.

2. Global warming potentials for CO2e based on Table A-1 to Subpart A of Part 98, Title 40. https://www.ecfr.gov/current/title-40/part-98/appendix-Table A-1 to Subpart A of Part 98

CORRIDOR EMISSION CALCULATIONS

Proposed Project Scenario	
Analysis Year	2033

Description:

Analysis of the train movement Eastbound and Westbound for the Proposed Project Dedicated Fleet.
A composite emission factor is calculated using the MOU reported fleet mix and EPA emission factors.
Corridor parameters are daily averages provided by BNSF.
Eastbound uses in state fuel blend.
Westbound uses out-of-state fuel blend.

Out-of-State =	100%	0% RD Blend/Use	In State =	100%	10% RD Blend/Use
Out-of-State =	0% Renewable		In State =	10% Renewable	

Scenario Fleet Parameters

Tier	Locomotive Inventory[1]	Locomotive Fleet Mix (%)[1]	Composite Line-Haul Criteria Pollutant Emission Factors (g/gal)						GHG (g/gal)[2]		
			PM10	PM2.5	VOC	NOx	CO	SOx	CO_2	N_2O	CH_4
Uncontrolled	0	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tier 0	0	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tier 0+	0	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tier 1	0	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tier 1+	0	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tier 2	0	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tier 2+	0	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tier 3	0	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tier 4	25	100.00%	0.31	0.30	1.01	20.80	26.62	0.09	10210.00	0.26	0.80
Total - Westbound[3]	**25**	**100%**	**0.31**	**0.30**	**1.01**	**20.80**	**26.62**	**0.09**	**10210**	**0.26**	**0.80**
Total - Eastbound[3]	**25**	**100%**	**0.30**	**0.29**	**0.98**	**20.55**	**26.21**	**0.09**	**9577**	**0.24**	**0.75**

Notes:

1. Locomotive Inventory based on 2023 CARB 98 MOU.
2. GHG emissions adjusted for 62% reduction for Carbon Intensity for any renewable diesl usage (CARB 2024).
3. Adjusted for alternative fuel blend.

CORRIDOR EMISSION CALCULATIONS

Proposed Project Scenario	
Analysis Year	2033

Description:

Analysis of the train movement Eastbound and Westbound for the Proposed Project Dedicated Fleet.
A composite emission factor is calculated using the MOU reported fleet mix and EPA emission factors.
Corridor parameters are daily averages provided by BNSF.
Eastbound uses in state fuel blend.
Westbound uses out-of-state fuel blend.

Out-of-State =	100%	0%	RD Blend/Use	In State =	100%	10%	RD Blend/Use
Out-of-State =	0%	Renewable		In State =	10%	Renewable	

Locomotive Parameters

Locomotive Parameters	Idling Power Rating[1]	Brake Specific Fuel Consumption[2]	Weight of Locomotive Engine[3]	Weight of Fuel[3]
Units	bhp/loco	bhp-hr/gal	tons/loco	tons/loco
Value	25	20.8	209	18

Notes:

1. US EPA 1998, Locomotive Emission Standards, Appendix I. Peak idling power.
2. US EPA 2009, Emission Factors for Locomotives, Table 3.
3. Provided by BNSF.

Scenario Train Parameters[1]

Train Type	Train-Trip Length (Eastbound)	Train-Trip Length (Westbound)	Daily Train Trips (Eastbound)	Daily Train Trips (Westbound)	Locomotives (Eastbound)	Locomotives (Westbound)	Locomotive Weight (Eastbound)	Locomotive Weight (Westbound)	Freight Weight (Eastbound)	Freight Weight (Westbound)	Idling Time (Non-Directional)
Units	miles/trip	miles/trip	train-trips/day	train-trips/day	loco/train	loco/train	tons/train	tons/train	tons/train	tons/train	hours/day
S-BAR6	56.10	56.10	1.90	2.37	5.56	3.62	1263.07	821.52	9792.95	7961.87	0.67

Notes:

1. Provided By BNSF. Average daily values.

Scenario Fuel Parameters[1]

Train Type	Horsepower per Ton (HPT) (Eastbound)	Horsepower per Ton (HPT) (Westbound)	East Elevation	West Elevation	Segment Length	Grade	Grade	Train Factor	Train Factor	Fuel Efficiency (Eastbound)	Fuel Efficiency (Westbound)
Units	bhp/ton	bhp/ton	ft	ft	mi	Eastbound	Westbound	Eastbound	Westbound	ton-miles/gal	ton-miles/gal
S-BAR6	2.50	2.00	2117	3775	56	-0.006	0.006	-0.126	-0.022	1885.46	737.48

Notes:

1. Provided By BNSF. Fuel Efficiency based on regression model from 2023 train data.

CORRIDOR EMISSION CALCULATIONS

Proposed Project Scenario	
Analysis Year	2033

Description:

Analysis of the train movement Eastbound and Westbound for the Proposed Project Dedicated Fleet.
A composite emission factor is calculated using the MOU reported fleet mix and EPA emission factors.
Corridor parameters are daily averages provided by BNSF.
Eastbound uses in state fuel blend.
Westbound uses out-of-state fuel blend.

Out-of-State =	100%	0% RD Blend/Use		In State =	100%	10% RD Blend/Use
Out-of-State =	0% Renewable			In State =	10% Renewable	

Scenario Daily Emissions Summary

Train Type	Total Peak Daily Corridor Criteria Pollutant Emissions [1]						Total Peak Daily Corridor GHG Emissions [1]			
Pollutant	**PM10**	**PM2.5**	**VOC**	**NOx**	**CO**	**SOx**	**CO_2**	**N_2O**	**CH_4**	**$CO2e^2$**
Non-Affected Trains	0.000	0.000	0.000	0.000	0.000	0.000	0.0	0.0	0.0	0.0
Affected Trains	0.001	0.001	0.003	0.057	0.073	0.000	25.2	0.0	0.0	25.4
Total	0.001	0.001	0.003	0.057	0.073	0.000	25.2	0.0	0.0	25.4

Direction of Travel	Average Moving Non-Affected Trains Daily Corridor Criteria Pollutant Emissions						Non-Affected Trains Daily Corridor GHG Emissions			
Pollutant	**PM10**	**PM2.5**	**VOC**	**NOx**	**CO**	**SOx**	**CO_2**	**N_2O**	**CH_4**	**$CO2e^2$**
Eastbound	0.000	0.000	0.000	0.000	0.000	0.000	0.0	0.0	0.0	0.0
Westbound	0.000	0.000	0.000	0.000	0.000	0.000	0.0	0.0	0.0	0.0
Total	0.000	0.000	0.000	0.000	0.000	0.000	0.0	0.0	0.0	0.0

Direction of Travel	Average Moving Affected Trains Daily Corridor Criteria Pollutant Emissions						Affected Trains Daily Corridor GHG Emissions			
Pollutant	**PM10**	**PM2.5**	**VOC**	**NOx**	**CO**	**SOx**	**CO_2**	**N_2O**	**CH_4**	**$CO2e^2$**
Eastbound	0.000	0.000	0.001	0.014	0.018	0.000	6.0	0.0	0.0	6.1
Westbound	0.001	0.001	0.002	0.036	0.046	0.000	16.2	0.0	0.0	16.3
Total	0.001	0.001	0.002	0.050	0.065	0.000	22.2	0.0	0.0	22.4

Train Type	Average Idling Daily Corridor Criteria Pollutant Emissions						Total Idling Daily Corridor GHG Emissions			
Pollutant	**PM10**	**PM2.5**	**VOC**	**NOx**	**CO**	**SOx**	**CO_2**	**N_2O**	**CH_4**	**$CO2e^2$**
Non-Affected Trains	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.0	0.0	0.0	0.0
Affected Trains	5.21E-06	5.06E-06	1.69E-05	3.51E-04	4.48E-04	1.59E-06	0.2	0.0	0.0	0.2
Total	5.21E-06	5.06E-06	1.69E-05	3.51E-04	4.48E-04	1.59E-06	0.2	0.0	0.0	0.2

Notes:

1. Peak daily emissions based on 13% safety factor on average daily emissions.

2. Global warming potentials for CO2e based on Table A-1 to Subpart A of Part 98, Title 40. https://www.ecfr.gov/current/title-40/part-98/appendix-Table A-1 to Subpart A of Part 98

CORRIDOR EMISSION CALCULATIONS

No Project Scenario	
Analysis Year	2048

Description:

Analysis of the train movement Eastbound and Westbound for the No Project.
A composite emission factor is calculated using the MOU reported fleet mix and EPA emission factors.
Corridor parameters are daily averages provided by BNSF.
Eastbound uses in state fuel blend.
Westbound uses out-of-state fuel blend.

Out-of-State =	100%	0% RD Blend/Use	In State =	100%	1% RD Blend/Use
Out-of-State =	0% Renewable		In State =	1% Renewable	

Scenario Fleet Parameters

Tier	Locomotive Inventory[1]	Locomotive Fleet Mix (%)[1]	Composite Line-Haul Criteria Pollutant Emission Factors (g/gal)						GHG (g/gal)[2]		
			PM10	PM2.5	VOC	NOx	CO	SOx	CO_2	N_2O	CH_4
Uncontrolled	0	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tier 0	0	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tier 0+	0	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tier 1	0	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tier 1+	360	8.62%	0.36	0.35	0.63	12.01	2.30	0.01	880.17	0.02	0.07
Tier 2	0	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tier 2+	1589	38.05%	0.63	0.61	1.24	39.18	10.13	0.04	3884.98	0.10	0.30
Tier 3	1198	28.69%	0.48	0.46	0.94	29.54	7.64	0.03	2929.02	0.07	0.23
Tier 4	1029	24.64%	0.08	0.07	0.25	5.13	6.56	0.02	2515.83	0.06	0.20
Total - Westbound[3]	**4,176**	**100%**	**1.55**	**1.50**	**3.06**	**85.85**	**26.62**	**0.09**	**10210**	**0.26**	**0.80**
Total - Eastbound[3]	**4,176**	**100%**	**1.54**	**1.50**	**3.05**	**85.75**	**26.58**	**0.09**	**10147**	**0.26**	**0.80**

Notes:

1. Locomotive Inventory based on 2023 CARB 98 MOU.
2. GHG emissions adjusted for 62% reduction for Carbon Intensity for any renewable diesl usage (CARB 2024).
3. Adjusted for alternative fuel blend.

Locomotive Parameters

Locomotive Parameters	Idling Power Rating[1]	Brake Specific Fuel Consumption[2]	Weight of Locomotive Engine[3]	Weight of Fuel[3]
Units	**bhp/loco**	**bhp-hr/gal**	**tons/loco**	**tons/loco**
Value	25	20.8	209	18

Notes:

1. US EPA 1998, Locomotive Emission Standards, Appendix I. Peak idling power.
2. US EPA 2009, Emission Factors for Locomotives, Table 3.
3. Provided by BNSF.

CORRIDOR EMISSION CALCULATIONS

No Project Scenario	
Analysis Year	2048

Description:

Analysis of the train movement Eastbound and Westbound for the No Project.
A composite emission factor is calculated using the MOU reported fleet mix and EPA emission factors.
Corridor parameters are daily averages provided by BNSF.
Eastbound uses in state fuel blend.
Westbound uses out-of-state fuel blend.

Out-of-State =	100%	0% RD Blend/Use	In State =	100%	1% RD Blend/Use
Out-of-State =	0% Renewable		In State =	1% Renewable	

Scenario Train Parameters[1]

Train Type	Train-Trip Length (Eastbound)	Train-Trip Length (Westbound)	Daily Train Trips (Eastbound)	Daily Train Trips (Westbound)	Locomotives (Eastbound)	Locomotives (Westbound)	Locomotive Weight (Eastbound)	Locomotive Weight (Westbound)	Freight Weight (Eastbound)	Freight Weight (Westbound)	Idling Time (Non-Directional)
Units	miles/trip	miles/trip	train-trips/day	train-trips/day	loco/train	loco/train	tons/train	tons/train	tons/train	tons/train	hours/day
B-Bare Table	65.49	66.85	0.39	2.11	2.00	2.00	454.00	454.00	2456.63	2586.85	0.47
Q-Guaranteed	67.77	65.65	4.67	5.43	3.32	2.38	754.64	541.38	5850.98	5246.88	0.96
S-Stack	86.20	86.20	4.72	5.84	5.60	3.49	1271.07	792.43	9854.98	7679.92	1.29
Z-Z Trains	65.08	65.23	9.38	7.46	3.86	3.17	875.71	720.03	5473.26	4605.37	1.43
NIM-Other Non-Intermodal	56.95	58.84	3.49	4.12	3.32	3.37	753.03	764.03	5838.46	7404.69	3.29

Notes:

1. Provided By BNSF. Average daily values.

Scenario Fuel Parameters[1]

Train Type	Horsepower per Ton (HPT) (Eastbound)	Horsepower per Ton (HPT) (Westbound)	East Elevation	West Elevation	Segment Length	Grade	Grade	Train Factor	Train Factor	Fuel Efficiency (Eastbound)	Fuel Efficiency (Westbound)
Units	bhp/ton	bhp/ton	ft	ft	mi	Eastbound	Westbound	Eastbound	Westbound	ton-miles/gal	ton-miles/gal
B-Bare Table	2.50	2.00	1073	17	112	0.002	-0.002	-0.022	-0.067	734.03	1196.11
Q-Guaranteed	2.50	2.00	1073	17	112	0.002	-0.002	0.122	0.109	902.30	1468.25
S-Stack	2.50	2.00	1073	17	112	0.002	-0.002	-0.126	-0.022	634.97	1218.87
Z-Z Trains	3.10	3.03	1073	17	112	0.002	-0.002	0.083	-0.050	806.51	1105.13
NIM-Other Non-Intermodal	2.50	2.00	1073	17	112	0.002	-0.002	-0.057	0.030	853.61	1424.61

Notes:

1. Provided By BNSF. Fuel Efficiency based on regression model from 2023 train data.

CORRIDOR EMISSION CALCULATIONS

No Project Scenario	
Analysis Year	2048

Description:

Analysis of the train movement Eastbound and Westbound for the No Project.
A composite emission factor is calculated using the MOU reported fleet mix and EPA emission factors.
Corridor parameters are daily averages provided by BNSF.
Eastbound uses in state fuel blend.
Westbound uses out-of-state fuel blend.

Out-of-State =	100%	0% RD Blend/Use	In State =	100%	1% RD Blend/Use
Out-of-State =	0% Renewable		In State =	1% Renewable	

Scenario Daily Emissions Summary

Train Type	Total Peak Daily Corridor Criteria Pollutant Emissions [1] (tons/day)						Total Peak Daily Corridor GHG Emissions [1] (metric tons/day)			
Pollutant	**PM10**	**PM2.5**	**VOC**	**NOx**	**CO**	**SOx**	**CO_2**	**N_2O**	**CH_4**	**$CO2e^2$**
Non-Affected Trains	0.021	0.020	0.041	1.151	0.357	0.001	123.8	0.0	0.0	125.0
Affected Trains	0.029	0.028	0.057	1.589	0.493	0.002	170.9	0.0	0.0	172.5
Total	0.049	0.048	0.098	2.740	0.849	0.003	294.7	0.0	0.0	297.5

Direction of Travel	Average Moving Non-Affected Trains Daily Corridor Criteria Pollutant Emissions (tons/day)						Non-Affected Trains Daily Corridor GHG Emissions (metric tons/day)			
Pollutant	**PM10**	**PM2.5**	**VOC**	**NOx**	**CO**	**SOx**	**CO_2**	**N_2O**	**CH_4**	**$CO2e^2$**
Eastbound	0.011	0.011	0.022	0.608	0.188	0.001	65.2	0.0	0.0	65.9
Westbound	0.007	0.007	0.014	0.392	0.121	0.000	42.2	0.0	0.0	42.6
Total	0.018	0.017	0.036	0.999	0.310	0.001	107.5	0.0	0.0	108.5

Direction of Travel	Average Moving Affected Trains Daily Corridor Criteria Pollutant Emissions (tons/day)						Affected Trains Daily Corridor GHG Emissions (metric tons/day)			
Pollutant	**PM10**	**PM2.5**	**VOC**	**NOx**	**CO**	**SOx**	**CO_2**	**N_2O**	**CH_4**	**$CO2e^2$**
Eastbound	0.015	0.015	0.031	0.861	0.267	0.001	92.4	0.0	0.0	93.3
Westbound	0.010	0.009	0.019	0.535	0.166	0.001	57.7	0.0	0.0	58.3
Total	0.025	0.024	0.050	1.396	0.433	0.002	150.1	0.0	0.0	151.5

Train Type	Average Idling Daily Corridor Criteria Pollutant Emissions (tons/day)						Total Idling Daily Corridor GHG Emissions (metric tons/day)			
Pollutant	**PM10**	**PM2.5**	**VOC**	**NOx**	**CO**	**SOx**	**CO_2**	**N_2O**	**CH_4**	**$CO2e^2$**
Non-Affected Trains	3.46E-04	3.36E-04	6.86E-04	1.92E-02	5.97E-03	2.11E-05	2.1	0.0	0.0	2.1
Affected Trains	1.84E-04	1.79E-04	3.65E-04	1.02E-02	3.18E-03	1.12E-05	1.1	0.0	0.0	1.1
Total	5.31E-04	5.15E-04	1.05E-03	2.95E-02	9.14E-03	3.23E-05	3.2	0.0	0.0	3.2

Notes:

1. Peak daily emissions based on 13% safety factor on average daily emissions.

2. Global warming potentials for CO2e based on Table A-1 to Subpart A of Part 98, Title 40. https://www.ecfr.gov/current/title-40/part-98/appendix-Table A-1 to Subpart A of Part 98

CORRIDOR EMISSION CALCULATIONS

No Project Scenario	
Analysis Year	2048

Description:

Analysis of the train movement Eastbound and Westbound for the No Project.
A composite emission factor is calculated using the MOU reported fleet mix and EPA emission factors.
Corridor parameters are daily averages provided by BNSF.
Eastbound uses in state fuel blend.
Westbound uses out-of-state fuel blend.

Out-of-State =	100%	0% RD Blend/Use	In State =	100%	1% RD Blend/Use
Out-of-State =	0% Renewable		In State =	1% Renewable	

Scenario Fleet Parameters

Tier	Locomotive Inventory[1]	Locomotive Fleet Mix (%)[1]	Composite Line-Haul Criteria Pollutant Emission Factors (g/gal)						GHG (g/gal)[2]		
			PM10	PM2.5	VOC	NOx	CO	SOx	CO_2	N_2O	CH_4
Uncontrolled	0	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tier 0	0	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tier 0+	0	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tier 1	0	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tier 1+	360	8.62%	0.36	0.35	0.63	12.01	2.30	0.01	880.17	0.02	0.07
Tier 2	0	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tier 2+	1589	38.05%	0.63	0.61	1.24	39.18	10.13	0.04	3884.98	0.10	0.30
Tier 3	1198	28.69%	0.48	0.46	0.94	29.54	7.64	0.03	2929.02	0.07	0.23
Tier 4	1029	24.64%	0.08	0.07	0.25	5.13	6.56	0.02	2515.83	0.06	0.20
Total - Westbound[3]	**4,176**	**100%**	**1.55**	**1.50**	**3.06**	**85.85**	**26.62**	**0.09**	**10210**	**0.26**	**0.80**
Total - Eastbound[3]	**4,176**	**100%**	**1.54**	**1.50**	**3.05**	**85.75**	**26.58**	**0.09**	**10147**	**0.26**	**0.80**

Notes:

1. Locomotive Inventory based on 2023 CARB 98 MOU.
2. GHG emissions adjusted for 62% reduction for Carbon Intensity for any renewable diesl usage (CARB 2024).
3. Adjusted for alternative fuel blend.

Locomotive Parameters

Locomotive Parameters	Idling Power Rating[1]	Brake Specific Fuel Consumption[2]	Weight of Locomotive Engine[3]	Weight of Fuel[3]
Units	**bhp/loco**	**bhp-hr/gal**	**tons/loco**	**tons/loco**
Value	25	20.8	209	18

Notes:

1. US EPA 1998, Locomotive Emission Standards, Appendix I. Peak idling power.
2. US EPA 2009, Emission Factors for Locomotives, Table 3.
3. Provided by BNSF.

CORRIDOR EMISSION CALCULATIONS

No Project Scenario	
Analysis Year	2048

Description:

Analysis of the train movement Eastbound and Westbound for the No Project.
A composite emission factor is calculated using the MOU reported fleet mix and EPA emission factors.
Corridor parameters are daily averages provided by BNSF.
Eastbound uses in state fuel blend.
Westbound uses out-of-state fuel blend.

Out-of-State =	100%	0% RD Blend/Use	In State =	100%	1% RD Blend/Use
Out-of-State =	0% Renewable		In State =	1% Renewable	

Scenario Train Parameters[1]

Train Type	Train-Trip Length (Eastbound)	Train-Trip Length (Westbound)	Daily Train Trips (Eastbound)	Daily Train Trips (Westbound)	Locomotives (Eastbound)	Locomotives (Westbound)	Locomotive Weight (Eastbound)	Locomotive Weight (Westbound)	Freight Weight (Eastbound)	Freight Weight (Westbound)	Idling Time (Non-Directional)
Units	miles/trip	miles/trip	train-trips/day	train-trips/day	loco/train	loco/train	tons/train	tons/train	tons/train	tons/train	hours/day
B-Bare Table	25.20	25.20	0.71	2.86	2.00	2.00	454.00	454.00	2344.22	2684.37	0.47
Q-Guaranteed	25.20	25.20	5.72	7.03	3.35	2.47	759.41	561.52	5887.94	5442.03	0.96
S-Stack	25.20	25.20	4.67	5.82	5.56	3.62	1262.58	821.83	9789.19	7964.85	1.29
Z-Z Trains	25.20	25.20	16.25	12.89	3.94	3.45	894.77	782.51	5592.40	5005.04	1.43
NIM-Other Non-Intermodal	25.20	25.20	5.18	5.79	2.95	3.40	670.10	772.67	5195.49	7488.44	3.29

Notes:

1. Provided By BNSF. Average daily values.

Scenario Fuel Parameters[1]

Train Type	Horsepower per Ton (HPT) (Eastbound)	Horsepower per Ton (HPT) (Westbound)	East Elevation	West Elevation	Segment Length	Grade	Grade	Train Factor	Train Factor	Fuel Efficiency (Eastbound)	Fuel Efficiency (Westbound)
Units	bhp/ton	bhp/ton	ft	ft	mi	Eastbound	Westbound	Eastbound	Westbound	ton-miles/gal	ton-miles/gal
B-Bare Table	2.50	2.00	3775	1073	25	0.020	-0.020	-0.022	-0.067	179.40	6731.05
Q-Guaranteed	2.50	2.00	3775	1073	25	0.020	-0.020	0.122	0.109	227.19	8232.62
S-Stack	2.50	2.00	3775	1073	25	0.020	-0.020	-0.126	-0.022	196.98	7414.45
Z-Z Trains	3.10	3.03	3775	1073	25	0.020	-0.020	0.083	-0.050	197.37	6200.32
NIM-Other Non-Intermodal	2.50	2.00	3775	1073	25	0.020	-0.020	-0.057	0.030	186.40	7769.06

Notes:

1. Provided By BNSF. Fuel Efficiency based on regression model from 2023 train data.

CORRIDOR EMISSION CALCULATIONS

No Project Scenario	
Analysis Year	2048

Description:

Analysis of the train movement Eastbound and Westbound for the No Project.
A composite emission factor is calculated using the MOU reported fleet mix and EPA emission factors.
Corridor parameters are daily averages provided by BNSF.
Eastbound uses in state fuel blend.
Westbound uses out-of-state fuel blend.

Out-of-State =	100%	0% RD Blend/Use	In State =	100%	1% RD Blend/Use
Out-of-State =	0% Renewable		In State =	1% Renewable	

Scenario Daily Emissions Summary

Train Type	Total Peak Daily Corridor Criteria Pollutant Emissions [1] (tons/day)						Total Peak Daily Corridor GHG Emissions [1] (metric tons/day)			
Pollutant	**PM10**	**PM2.5**	**VOC**	**NOx**	**CO**	**SOx**	**CO_2**	**N_2O**	**CH_4**	**$CO2e^2$**
Non-Affected Trains	0.035	0.034	0.069	1.940	0.601	0.002	208.2	0.0	0.0	210.2
Affected Trains	0.026	0.025	0.051	1.429	0.443	0.002	153.4	0.0	0.0	154.8
Total	0.061	0.059	0.120	3.368	1.044	0.004	361.6	0.0	0.0	365.1

Direction of Travel	Average Moving Non-Affected Trains Daily Corridor Criteria Pollutant Emissions (tons/day)						Non-Affected Trains Daily Corridor GHG Emissions (metric tons/day)			
Pollutant	**PM10**	**PM2.5**	**VOC**	**NOx**	**CO**	**SOx**	**CO_2**	**N_2O**	**CH_4**	**$CO2e^2$**
Eastbound	0.029	0.029	0.058	1.639	0.508	0.002	175.9	0.0	0.0	177.6
Westbound	0.001	0.001	0.002	0.047	0.015	0.000	5.1	0.0	0.0	5.1
Total	0.030	0.029	0.060	1.686	0.523	0.002	181.0	0.0	0.0	182.7

Direction of Travel	Average Moving Affected Trains Daily Corridor Criteria Pollutant Emissions (tons/day)						Affected Trains Daily Corridor GHG Emissions (metric tons/day)			
Pollutant	**PM10**	**PM2.5**	**VOC**	**NOx**	**CO**	**SOx**	**CO_2**	**N_2O**	**CH_4**	**$CO2e^2$**
Eastbound	0.022	0.021	0.043	1.217	0.377	0.001	130.6	0.0	0.0	131.9
Westbound	0.001	0.001	0.001	0.036	0.011	0.000	3.9	0.0	0.0	3.9
Total	0.023	0.022	0.045	1.253	0.388	0.001	134.5	0.0	0.0	135.8

Train Type	Average Idling Daily Corridor Criteria Pollutant Emissions (tons/day)						Total Idling Daily Corridor GHG Emissions (metric tons/day)			
Pollutant	**PM10**	**PM2.5**	**VOC**	**NOx**	**CO**	**SOx**	**CO_2**	**N_2O**	**CH_4**	**$CO2e^2$**
Non-Affected Trains	5.53E-04	5.36E-04	1.09E-03	3.07E-02	9.52E-03	3.36E-05	3.3	0.0	0.0	3.3
Affected Trains	2.03E-04	1.97E-04	4.02E-04	1.13E-02	3.50E-03	1.23E-05	1.2	0.0	0.0	1.2
Total	7.56E-04	7.33E-04	1.50E-03	4.20E-02	1.30E-02	4.60E-05	4.5	0.0	0.0	4.6

Notes:

1. Peak daily emissions based on 13% safety factor on average daily emissions.

2. Global warming potentials for CO2e based on Table A-1 to Subpart A of Part 98, Title 40. https://www.ecfr.gov/current/title-40/part-98/appendix-Table A-1 to Subpart A of Part 98

CORRIDOR EMISSION CALCULATIONS

No Project Scenario	
Analysis Year	2048

Description:

Analysis of the train movement Eastbound and Westbound for the No Project.
A composite emission factor is calculated using the MOU reported fleet mix and EPA emission factors.
Corridor parameters are daily averages provided by BNSF.
Eastbound uses in state fuel blend.
Westbound uses out-of-state fuel blend.

Out-of-State =	100%	0% RD Blend/Use	In State =	100%	1% RD Blend/Use
Out-of-State =	0% Renewable		In State =	1% Renewable	

Scenario Fleet Parameters

Tier	Locomotive Inventory[1]	Locomotive Fleet Mix (%)[1]	Composite Line-Haul Criteria Pollutant Emission Factors (g/gal)						GHG (g/gal)[2]		
			PM10	PM2.5	VOC	NOx	CO	SOx	CO_2	N_2O	CH_4
Uncontrolled	0	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tier 0	0	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tier 0+	0	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tier 1	0	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tier 1+	360	8.62%	0.36	0.35	0.63	12.01	2.30	0.01	880.17	0.02	0.07
Tier 2	0	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tier 2+	1589	38.05%	0.63	0.61	1.24	39.18	10.13	0.04	3884.98	0.10	0.30
Tier 3	1198	28.69%	0.48	0.46	0.94	29.54	7.64	0.03	2929.02	0.07	0.23
Tier 4	1029	24.64%	0.08	0.07	0.25	5.13	6.56	0.02	2515.83	0.06	0.20
Total - Westbound[3]	**4,176**	**100%**	**1.55**	**1.50**	**3.06**	**85.85**	**26.62**	**0.09**	**10210**	**0.26**	**0.80**
Total - Eastbound[3]	**4,176**	**100%**	**1.54**	**1.50**	**3.05**	**85.75**	**26.58**	**0.09**	**10147**	**0.26**	**0.80**

Notes:

1. Locomotive Inventory based on 2023 CARB 98 MOU.
2. GHG emissions adjusted for 62% reduction for Carbon Intensity for any renewable diesl usage (CARB 2024).
3. Adjusted for alternative fuel blend.

Locomotive Parameters

Locomotive Parameters	Idling Power Rating[1]	Brake Specific Fuel Consumption[2]	Weight of Locomotive Engine[3]	Weight of Fuel[3]
Units	**bhp/loco**	**bhp-hr/gal**	**tons/loco**	**tons/loco**
Value	25	20.8	209	18

Notes:

1. US EPA 1998, Locomotive Emission Standards, Appendix I. Peak idling power.
2. US EPA 2009, Emission Factors for Locomotives, Table 3.
3. Provided by BNSF.

CORRIDOR EMISSION CALCULATIONS

No Project Scenario	
Analysis Year	2048

Description:

Analysis of the train movement Eastbound and Westbound for the No Project.
A composite emission factor is calculated using the MOU reported fleet mix and EPA emission factors.
Corridor parameters are daily averages provided by BNSF.
Eastbound uses in state fuel blend.
Westbound uses out-of-state fuel blend.

Out-of-State =	100%	0% RD Blend/Use	In State =	100%	1% RD Blend/Use
Out-of-State =	0% Renewable		In State =	1% Renewable	

Scenario Train Parameters[1]

Train Type	Train-Trip Length (Eastbound)	Train-Trip Length (Westbound)	Daily Train Trips (Eastbound)	Daily Train Trips (Westbound)	Locomotives (Eastbound)	Locomotives (Westbound)	Locomotive Weight (Eastbound)	Locomotive Weight (Westbound)	Freight Weight (Eastbound)	Freight Weight (Westbound)	Idling Time (Non-Directional)
Units	miles/trip	miles/trip	train-trips/day	train-trips/day	loco/train	loco/train	tons/train	tons/train	tons/train	tons/train	hours/day
B-Bare Table	56.10	56.10	0.70	2.85	2.00	2.00	454.00	454.00	2307.42	2681.37	0.21
Q-Guaranteed	56.10	56.10	5.72	7.03	3.35	2.48	759.40	562.39	5887.87	5450.50	2.42
S-Stack	56.10	56.10	4.67	5.81	5.56	3.62	1263.07	821.52	9792.95	7961.87	1.61
Z-Z Trains	56.10	56.10	16.25	12.89	3.94	3.45	894.78	782.87	5592.45	5007.35	1.19
NIM-Other Non-Intermodal	56.10	56.10	5.02	5.64	2.93	3.39	665.23	768.58	5157.71	7448.78	5.08

Notes:

1. Provided By BNSF. Average daily values.

Scenario Fuel Parameters[1]

Train Type	Horsepower per Ton (HPT) (Eastbound)	Horsepower per Ton (HPT) (Westbound)	East Elevation	West Elevation	Segment Length	Grade	Grade	Train Factor	Train Factor	Fuel Efficiency (Eastbound)	Fuel Efficiency (Westbound)
Units	bhp/ton	bhp/ton	ft	ft	mi	Eastbound	Westbound	Eastbound	Westbound	ton-miles/gal	ton-miles/gal
B-Bare Table	2.50	2.00	2117	3775	56	-0.006	0.006	-0.022	-0.067	1715.52	669.51
Q-Guaranteed	2.50	2.00	2117	3775	56	-0.006	0.006	0.122	0.109	2174.46	818.95
S-Stack	2.50	2.00	2117	3775	56	-0.006	0.006	-0.126	-0.022	1885.46	737.48
Z-Z Trains	3.10	3.03	2117	3775	56	-0.006	0.006	0.083	-0.050	1889.07	616.75
NIM-Other Non-Intermodal	2.50	2.00	2117	3775	56	-0.006	0.006	-0.057	0.030	1782.18	772.47

Notes:

1. Provided By BNSF. Fuel Efficiency based on regression model from 2023 train data.

CORRIDOR EMISSION CALCULATIONS

No Project Scenario	
Analysis Year	2048

Description:

Analysis of the train movement Eastbound and Westbound for the No Project.
A composite emission factor is calculated using the MOU reported fleet mix and EPA emission factors.
Corridor parameters are daily averages provided by BNSF.
Eastbound uses in state fuel blend.
Westbound uses out-of-state fuel blend.

Out-of-State =	100%	0% RD Blend/Use	In State =	100%	1% RD Blend/Use
Out-of-State =	0% Renewable		In State =	1% Renewable	

Scenario Daily Emissions Summary

Train Type	Total Peak Daily Corridor Criteria Pollutant Emissions [1] (tons/day)						Total Peak Daily Corridor GHG Emissions [1] (metric tons/day)			
Pollutant	**PM10**	**PM2.5**	**VOC**	**NOx**	**CO**	**SOx**	**CO_2**	**N_2O**	**CH_4**	**$CO2e^2$**
Non-Affected Trains	0.030	0.029	0.059	1.643	0.509	0.002	177.0	0.0	0.0	178.7
Affected Trains	0.023	0.022	0.045	1.258	0.390	0.001	135.5	0.0	0.0	136.8
Total	0.052	0.051	0.103	2.900	0.899	0.003	312.5	0.0	0.0	315.5

Direction of Travel	Average Moving Non-Affected Trains Daily Corridor Criteria Pollutant Emissions (tons/day)						Non-Affected Trains Daily Corridor GHG Emissions (metric tons/day)			
Pollutant	**PM10**	**PM2.5**	**VOC**	**NOx**	**CO**	**SOx**	**CO_2**	**N_2O**	**CH_4**	**$CO2e^2$**
Eastbound	0.007	0.007	0.013	0.378	0.117	0.000	40.6	0.0	0.0	41.0
Westbound	0.019	0.018	0.037	1.042	0.323	0.001	112.4	0.0	0.0	113.4
Total	0.026	0.025	0.051	1.420	0.440	0.002	152.9	0.0	0.0	154.4

Direction of Travel	Average Moving Affected Trains Daily Corridor Criteria Pollutant Emissions (tons/day)						Affected Trains Daily Corridor GHG Emissions (metric tons/day)			
Pollutant	**PM10**	**PM2.5**	**VOC**	**NOx**	**CO**	**SOx**	**CO_2**	**N_2O**	**CH_4**	**$CO2e^2$**
Eastbound	0.005	0.005	0.010	0.283	0.088	0.000	30.4	0.0	0.0	30.7
Westbound	0.015	0.014	0.029	0.811	0.252	0.001	87.5	0.0	0.0	88.3
Total	0.020	0.019	0.039	1.094	0.339	0.001	117.9	0.0	0.0	119.0

Train Type	Average Idling Daily Corridor Criteria Pollutant Emissions (tons/day)						Total Idling Daily Corridor GHG Emissions (metric tons/day)			
Pollutant	**PM10**	**PM2.5**	**VOC**	**NOx**	**CO**	**SOx**	**CO_2**	**N_2O**	**CH_4**	**$CO2e^2$**
Non-Affected Trains	6.15E-04	5.97E-04	1.22E-03	3.42E-02	1.06E-02	3.74E-05	3.7	0.0	0.0	3.7
Affected Trains	3.38E-04	3.28E-04	6.70E-04	1.88E-02	5.83E-03	2.06E-05	2.0	0.0	0.0	2.0
Total	9.54E-04	9.25E-04	1.89E-03	5.30E-02	1.64E-02	5.80E-05	5.7	0.0	0.0	5.8

Notes:

1. Peak daily emissions based on 13% safety factor on average daily emissions.

2. Global warming potentials for CO2e based on Table A-1 to Subpart A of Part 98, Title 40. https://www.ecfr.gov/current/title-40/part-98/appendix-Table A-1 to Subpart A of Part 98

CORRIDOR EMISSION CALCULATIONS

No Project Scenario	
Analysis Year	2048

Description:

Analysis of the train movement Eastbound and Westbound for the No Project.
A composite emission factor is calculated using the MOU reported fleet mix and EPA emission factors.
Corridor parameters are daily averages provided by BNSF.
Eastbound uses in state fuel blend.
Westbound uses out-of-state fuel blend.

Out-of-State =	100%	0% RD Blend/Use	In State =	100%	1% RD Blend/Use
Out-of-State =	0% Renewable		In State =	1% Renewable	

Scenario Fleet Parameters

Tier	Locomotive Inventory[1]	Locomotive Fleet Mix (%)[1]	Composite Line-Haul Criteria Pollutant Emission Factors (g/gal)						GHG (g/gal)[2]		
			PM10	PM2.5	VOC	NOx	CO	SOx	CO_2	N_2O	CH_4
Uncontrolled	0	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tier 0	0	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tier 0+	0	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tier 1	0	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tier 1+	360	8.62%	0.36	0.35	0.63	12.01	2.30	0.01	880.17	0.02	0.07
Tier 2	0	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tier 2+	1589	38.05%	0.63	0.61	1.24	39.18	10.13	0.04	3884.98	0.10	0.30
Tier 3	1198	28.69%	0.48	0.46	0.94	29.54	7.64	0.03	2929.02	0.07	0.23
Tier 4	1029	24.64%	0.08	0.07	0.25	5.13	6.56	0.02	2515.83	0.06	0.20
Total - Westbound[3]	**4,176**	**100%**	**1.55**	**1.50**	**3.06**	**85.85**	**26.62**	**0.09**	**10210**	**0.26**	**0.80**
Total - Eastbound[3]	**4,176**	**100%**	**1.54**	**1.50**	**3.05**	**85.75**	**26.58**	**0.09**	**10147**	**0.26**	**0.80**

Notes:

1. Locomotive Inventory based on 2023 CARB 98 MOU.
2. GHG emissions adjusted for 62% reduction for Carbon Intensity for any renewable diesl usage (CARB 2024).
3. Adjusted for alternative fuel blend.

Locomotive Parameters

Locomotive Parameters	Idling Power Rating[1]	Brake Specific Fuel Consumption[2]	Weight of Locomotive Engine[3]	Weight of Fuel[3]
Units	**bhp/loco**	**bhp-hr/gal**	**tons/loco**	**tons/loco**
Value	25	20.8	209	18

Notes:

1. US EPA 1998, Locomotive Emission Standards, Appendix I. Peak idling power.
2. US EPA 2009, Emission Factors for Locomotives, Table 3.
3. Provided by BNSF.

CORRIDOR EMISSION CALCULATIONS

No Project Scenario	
Analysis Year	2048

Description:

Analysis of the train movement Eastbound and Westbound for the No Project.
A composite emission factor is calculated using the MOU reported fleet mix and EPA emission factors.
Corridor parameters are daily averages provided by BNSF.
Eastbound uses in state fuel blend.
Westbound uses out-of-state fuel blend.

Out-of-State =	100%	0% RD Blend/Use	In State =	100%	1% RD Blend/Use
Out-of-State =	0% Renewable		In State =	1% Renewable	

Scenario Train Parameters[1]

Train Type	Train-Trip Length (Eastbound)	Train-Trip Length (Westbound)	Daily Train Trips (Eastbound)	Daily Train Trips (Westbound)	Locomotives (Eastbound)	Locomotives (Westbound)	Locomotive Weight (Eastbound)	Locomotive Weight (Westbound)	Freight Weight (Eastbound)	Freight Weight (Westbound)	Idling Time (Non-Directional)
Units	miles/trip	miles/trip	train-trips/day	train-trips/day	loco/train	loco/train	tons/train	tons/train	tons/train	tons/train	hours/day
B-Bare Table	167.40	167.40	0.55	1.88	2.00	2.00	454.00	454.00	2405.38	2719.81	0.76
Q-Guaranteed	167.40	167.40	9.04	9.34	2.68	2.66	609.18	603.96	5903.96	5853.32	3.53
S-Stack	167.40	167.40	4.77	5.86	4.43	3.65	1006.08	827.47	9750.60	8019.52	4.25
Z-Z Trains	167.40	167.40	20.10	17.79	3.78	3.39	857.67	770.07	5357.14	4811.96	2.64
NIM-Other Non-Intermodal	167.40	167.40	6.81	7.75	2.80	4.67	636.50	1060.69	6168.76	10279.78	5.55

Notes:

1. Provided By BNSF. Average daily values.

Scenario Fuel Parameters[1]

Train Type	Horsepower per Ton (HPT) (Eastbound)	Horsepower per Ton (HPT) (Westbound)	East Elevation	West Elevation	Segment Length	Grade	Grade	Train Factor	Train Factor	Fuel Efficiency (Eastbound)	Fuel Efficiency (Westbound)
Units	bhp/ton	bhp/ton	ft	ft	mi	Eastbound	Westbound	Eastbound	Westbound	ton-miles/gal	ton-miles/gal
B-Bare Table	2.00	2.00	490	2117	167.40	-0.002	0.002	-0.022	-0.067	356.08	594.45
Q-Guaranteed	2.00	2.00	490	2117	167	-0.002	0.002	0.122	0.109	448.84	729.83
S-Stack	2.00	2.00	490	2117	167	-0.002	0.002	-0.126	-0.022	387.65	654.95
Z-Z Trains	3.10	3.10	490	2117	167	-0.002	0.002	0.083	-0.050	358.36	541.73
NIM-Other Non-Intermodal	2.00	2.00	490	2117	167	-0.002	0.002	-0.057	0.030	377.84	705.39

Notes:

1. Provided By BNSF. Fuel Efficiency based on regression model from 2023 train data.

CORRIDOR EMISSION CALCULATIONS

No Project Scenario	
Analysis Year	2048

Description:

Analysis of the train movement Eastbound and Westbound for the No Project.
A composite emission factor is calculated using the MOU reported fleet mix and EPA emission factors.
Corridor parameters are daily averages provided by BNSF.
Eastbound uses in state fuel blend.
Westbound uses out-of-state fuel blend.

Out-of-State =	100%	0% RD Blend/Use	In State =	100%	1% RD Blend/Use
Out-of-State =	0% Renewable		In State =	1% Renewable	

Scenario Daily Emissions Summary

Train Type	Total Peak Daily Corridor Criteria Pollutant Emissions [1] (tons/day)						Total Peak Daily Corridor GHG Emissions [1] (metric tons/day)			
Pollutant	**PM10**	**PM2.5**	**VOC**	**NOx**	**CO**	**SOx**	**CO_2**	**N_2O**	**CH_4**	**$CO2e^2$**
Non-Affected Trains	0.267	0.259	0.528	14.816	4.594	0.016	1593.8	0.0	0.1	1609.1
Affected Trains	0.166	0.161	0.328	9.214	2.857	0.010	991.0	0.0	0.1	1000.5
Total	0.432	0.419	0.856	24.030	7.450	0.026	2584.8	0.1	0.2	2609.5

Direction of Travel	Average Moving Non-Affected Trains Daily Corridor Criteria Pollutant Emissions (tons/day)						Non-Affected Trains Daily Corridor GHG Emissions (metric tons/day)			
Pollutant	**PM10**	**PM2.5**	**VOC**	**NOx**	**CO**	**SOx**	**CO_2**	**N_2O**	**CH_4**	**$CO2e^2$**
Eastbound	0.136	0.132	0.269	7.561	2.344	0.008	811.7	0.0	0.1	819.4
Westbound	0.099	0.096	0.195	5.475	1.698	0.006	590.7	0.0	0.0	596.3
Total	0.234	0.227	0.465	13.036	4.042	0.014	1402.3	0.0	0.1	1415.7

Direction of Travel	Average Moving Affected Trains Daily Corridor Criteria Pollutant Emissions (tons/day)						Affected Trains Daily Corridor GHG Emissions (metric tons/day)			
Pollutant	**PM10**	**PM2.5**	**VOC**	**NOx**	**CO**	**SOx**	**CO_2**	**N_2O**	**CH_4**	**$CO2e^2$**
Eastbound	0.089	0.087	0.177	4.966	1.539	0.005	533.0	0.0	0.0	538.1
Westbound	0.057	0.055	0.112	3.147	0.976	0.003	339.6	0.0	0.0	342.8
Total	0.146	0.142	0.289	8.113	2.515	0.009	872.6	0.0	0.1	880.9

Train Type	Average Idling Daily Corridor Criteria Pollutant Emissions (tons/day)						Total Idling Daily Corridor GHG Emissions (metric tons/day)			
Pollutant	**PM10**	**PM2.5**	**VOC**	**NOx**	**CO**	**SOx**	**CO_2**	**N_2O**	**CH_4**	**$CO2e^2$**
Non-Affected Trains	1.36E-03	1.32E-03	2.70E-03	7.58E-02	2.35E-02	8.29E-05	8.2	0.0	0.0	8.2
Affected Trains	7.32E-04	7.10E-04	1.45E-03	4.07E-02	1.26E-02	4.45E-05	4.4	0.0	0.0	4.4
Total	2.10E-03	2.03E-03	4.15E-03	1.16E-01	3.61E-02	1.27E-04	12.5	0.0	0.0	12.7

Notes:

1. Peak daily emissions based on 13% safety factor on average daily emissions.

2. Global warming potentials for CO2e based on Table A-1 to Subpart A of Part 98, Title 40. https://www.ecfr.gov/current/title-40/part-98/appendix-Table A-1 to Subpart A of Part 98

CORRIDOR EMISSION CALCULATIONS

Proposed Project Scenario	
Analysis Year	2048

Description:

Analysis of the train movement Eastbound and Westbound for the Proposed Project.
A composite emission factor is calculated using the MOU reported fleet mix and EPA emission factors.
Corridor parameters are daily averages provided by BNSF.
Eastbound uses in state fuel blend.
Westbound uses out-of-state fuel blend.

Out-of-State =	100%	0% RD Blend/Use		In State =	100%	10% RD Blend/Use
Out-of-State =	0%	Renewable		In State =	10%	Renewable

Scenario Fleet Parameters

Tier	Locomotive Inventory[1]	Locomotive Fleet Mix (%)[1]	Composite Line-Haul Criteria Pollutant Emission Factors (g/gal)						GHG (g/gal)[2]		
			PM10	PM2.5	VOC	NOx	CO	SOx	CO_2	N_2O	CH_4
Uncontrolled	0	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tier 0	0	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tier 0+	0	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tier 1	0	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tier 1+	360	8.62%	0.36	0.35	0.63	12.01	2.30	0.01	880.17	0.02	0.07
Tier 2	0	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tier 2+	1589	38.05%	0.63	0.61	1.24	39.18	10.13	0.04	3884.98	0.10	0.30
Tier 3	1198	28.69%	0.48	0.46	0.94	29.54	7.64	0.03	2929.02	0.07	0.23
Tier 4	1029	24.64%	0.08	0.07	0.25	5.13	6.56	0.02	2515.83	0.06	0.20
Total - Westbound[3]	**4,176**	**100%**	**1.55**	**1.50**	**3.06**	**85.85**	**26.62**	**0.09**	**10210**	**0.26**	**0.80**
Total - Eastbound[3]	**4,176**	**100%**	**1.50**	**1.45**	**2.99**	**84.81**	**26.21**	**0.09**	**9577**	**0.24**	**0.75**

Notes:

1. Locomotive Inventory based on 2023 CARB 98 MOU.
2. GHG emissions adjusted for 62% reduction for Carbon Intensity for any renewable diesl usage (CARB 2024).
3. Adjusted for alternative fuel blend.

Locomotive Parameters

Locomotive Parameters	Idling Power Rating[1]	Brake Specific Fuel Consumption[2]	Weight of Locomotive Engine[3]	Weight of Fuel[3]
Units	**bhp/loco**	**bhp-hr/gal**	**tons/loco**	**tons/loco**
Value	25	20.8	209	18

Notes:

1. US EPA 1998, Locomotive Emission Standards, Appendix I. Peak idling power.
2. US EPA 2009, Emission Factors for Locomotives, Table 3.
3. Provided by BNSF.

CORRIDOR EMISSION CALCULATIONS

Proposed Project Scenario	
Analysis Year	2048

Description:

Analysis of the train movement Eastbound and Westbound for the Proposed Project.
A composite emission factor is calculated using the MOU reported fleet mix and EPA emission factors.
Corridor parameters are daily averages provided by BNSF.
Eastbound uses in state fuel blend.
Westbound uses out-of-state fuel blend.

Out-of-State =	100%	0% RD Blend/Use		In State =	100%	10% RD Blend/Use
Out-of-State =	0% Renewable			In State =	10% Renewable	

Scenario Train Parameters[1]

Train Type	Train-Trip Length (Eastbound)	Train-Trip Length (Westbound)	Daily Train Trips (Eastbound)	Daily Train Trips (Westbound)	Locomotives (Eastbound)	Locomotives (Westbound)	Locomotive Weight (Eastbound)	Locomotive Weight (Westbound)	Freight Weight (Eastbound)	Freight Weight (Westbound)	Idling Time (Non-Directional)
Units	miles/trip	miles/trip	train-trips/day	train-trips/day	loco/train	loco/train	tons/train	tons/train	tons/train	tons/train	hours/day
B-Bare Table	65.49	66.85	0.39	2.11	2.00	2.00	454.00	454.00	2456.63	2586.85	0.46
Q-Guaranteed	67.77	65.65	4.51	5.25	3.32	2.38	754.64	541.38	5850.98	5246.88	1.10
S-Stack	86.20	86.20	4.72	5.84	5.60	3.49	1271.07	792.43	9854.98	7679.92	2.31
Z-Z Trains	65.08	65.23	9.38	7.46	3.86	3.17	875.71	720.03	5473.26	4605.37	1.48
NIM-Other Non-Intermodal	56.95	58.84	3.49	4.12	3.32	3.37	753.03	764.03	5838.46	7404.69	3.46

Notes:

1. Provided By BNSF. Average daily values.

Scenario Fuel Parameters[1]

Train Type	Horsepower per Ton (HPT) (Eastbound)	Horsepower per Ton (HPT) (Westbound)	East Elevation	West Elevation	Segment Length	Grade	Grade	Train Factor	Train Factor	Fuel Efficiency (Eastbound)	Fuel Efficiency (Westbound)
Units	bhp/ton	bhp/ton	ft	ft	mi	Eastbound	Westbound	Eastbound	Westbound	ton-miles/gal	ton-miles/gal
B-Bare Table	2.50	2.00	1073	17	112	0.002	-0.002	-0.022	-0.067	734.03	1196.11
Q-Guaranteed	2.50	2.00	1073	17	112	0.002	-0.002	0.122	0.109	902.30	1468.25
S-Stack	2.50	2.00	1073	17	112	0.002	-0.002	-0.126	-0.022	634.97	1218.87
Z-Z Trains	3.10	3.03	1073	17	112	0.002	-0.002	0.083	-0.050	806.51	1105.13
NIM-Other Non-Intermodal	2.50	2.00	1073	17	112	0.002	-0.002	-0.057	0.030	853.61	1424.61

Notes:

1. Provided By BNSF. Fuel Efficiency based on regression model from 2023 train data.

CORRIDOR EMISSION CALCULATIONS

Proposed Project Scenario	
Analysis Year	2048

Description:

Analysis of the train movement Eastbound and Westbound for the Proposed Project.
A composite emission factor is calculated using the MOU reported fleet mix and EPA emission factors.
Corridor parameters are daily averages provided by BNSF.
Eastbound uses in state fuel blend.
Westbound uses out-of-state fuel blend.

Out-of-State =	100%	0% RD Blend/Use	In State =	100%	10% RD Blend/Use
Out-of-State =	0% Renewable		In State =	10% Renewable	

Scenario Daily Emissions Summary

Train Type	Total Peak Daily Corridor Criteria Pollutant Emissions [1] (tons/day)						Total Peak Daily Corridor GHG Emissions [1] (metric tons/day)			
Pollutant	**PM10**	**PM2.5**	**VOC**	**NOx**	**CO**	**SOx**	**CO_2**	**N_2O**	**CH_4**	**$CO2e^2$**
Non-Affected Trains	0.020	0.020	0.041	1.144	0.354	0.001	122.9	0.0	0.0	124.1
Affected Trains	0.028	0.027	0.056	1.569	0.485	0.002	164.0	0.0	0.0	165.6
Total	0.048	0.047	0.096	2.713	0.839	0.003	286.9	0.0	0.0	289.7

Direction of Travel	Average Moving Non-Affected Trains Daily Corridor Criteria Pollutant Emissions (tons/day)						Non-Affected Trains Daily Corridor GHG Emissions (metric tons/day)			
Pollutant	**PM10**	**PM2.5**	**VOC**	**NOx**	**CO**	**SOx**	**CO_2**	**N_2O**	**CH_4**	**$CO2e^2$**
Eastbound	0.011	0.010	0.021	0.601	0.186	0.001	67.7	0.0	0.0	68.3
Westbound	0.007	0.007	0.014	0.392	0.121	0.000	39.0	0.0	0.0	39.4
Total	0.018	0.017	0.035	0.993	0.307	0.001	106.7	0.0	0.0	107.7

Direction of Travel	Average Moving Affected Trains Daily Corridor Criteria Pollutant Emissions (tons/day)						Affected Trains Daily Corridor GHG Emissions (metric tons/day)			
Pollutant	**PM10**	**PM2.5**	**VOC**	**NOx**	**CO**	**SOx**	**CO_2**	**N_2O**	**CH_4**	**$CO2e^2$**
Eastbound	0.015	0.014	0.030	0.843	0.260	0.001	86.3	0.0	0.0	87.2
Westbound	0.010	0.009	0.019	0.529	0.164	0.001	57.1	0.0	0.0	57.7
Total	0.024	0.024	0.049	1.372	0.425	0.002	143.5	0.0	0.0	144.8

Train Type	Average Idling Daily Corridor Criteria Pollutant Emissions (tons/day)						Total Idling Daily Corridor GHG Emissions (metric tons/day)			
Pollutant	**PM10**	**PM2.5**	**VOC**	**NOx**	**CO**	**SOx**	**CO_2**	**N_2O**	**CH_4**	**$CO2e^2$**
Non-Affected Trains	3.57E-04	3.46E-04	7.09E-04	2.00E-02	6.19E-03	2.20E-05	2.1	0.0	0.0	2.1
Affected Trains	2.84E-04	2.75E-04	5.65E-04	1.59E-02	4.93E-03	1.75E-05	1.7	0.0	0.0	1.7
Total	6.41E-04	6.21E-04	1.27E-03	3.59E-02	1.11E-02	3.95E-05	3.8	0.0	0.0	3.8

Notes: 7.18E+01

1. Peak daily emissions based on 13% safety factor on average daily emissions.

2. Global warming potentials for CO2e based on Table A-1 to Subpart A of Part 98, Title 40. https://www.ecfr.gov/current/title-40/part-98/appendix-Table A-1 to Subpart A of Part 98

CORRIDOR EMISSION CALCULATIONS

Proposed Project Scenario	
Analysis Year	2048

Description:

Analysis of the train movement Eastbound and Westbound for the Proposed Project.
A composite emission factor is calculated using the MOU reported fleet mix and EPA emission factors.
Corridor parameters are daily averages provided by BNSF.
Eastbound uses in state fuel blend.
Westbound uses out-of-state fuel blend.

Out-of-State =	100%	0% RD Blend/Use		In State =	100%	10% RD Blend/Use
Out-of-State =	0%	Renewable		In State =	10%	Renewable

Scenario Fleet Parameters

Tier	Locomotive Inventory[1]	Locomotive Fleet Mix (%)[1]	Composite Line-Haul Criteria Pollutant Emission Factors (g/gal)						GHG (g/gal)[2]		
			PM10	PM2.5	VOC	NOx	CO	SOx	CO_2	N_2O	CH_4
Uncontrolled	0	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tier 0	0	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tier 0+	0	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tier 1	0	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tier 1+	360	8.62%	0.36	0.35	0.63	12.01	2.30	0.01	880.17	0.02	0.07
Tier 2	0	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tier 2+	1589	38.05%	0.63	0.61	1.24	39.18	10.13	0.04	3884.98	0.10	0.30
Tier 3	1198	28.69%	0.48	0.46	0.94	29.54	7.64	0.03	2929.02	0.07	0.23
Tier 4	1029	24.64%	0.08	0.07	0.25	5.13	6.56	0.02	2515.83	0.06	0.20
Total - Westbound[3]	**4,176**	**100%**	**1.55**	**1.50**	**3.06**	**85.85**	**26.62**	**0.09**	**10210**	**0.26**	**0.80**
Total - Eastbound[3]	**4,176**	**100%**	**1.50**	**1.45**	**2.99**	**84.81**	**26.21**	**0.09**	**9577**	**0.24**	**0.75**

Notes:

1. Locomotive Inventory based on 2023 CARB 98 MOU.
2. GHG emissions adjusted for 62% reduction for Carbon Intensity for any renewable diesl usage (CARB 2024).
3. Adjusted for alternative fuel blend.

Locomotive Parameters

Locomotive Parameters	Idling Power Rating[1]	Brake Specific Fuel Consumption[2]	Weight of Locomotive Engine[3]	Weight of Fuel[3]
Units	**bhp/loco**	**bhp-hr/gal**	**tons/loco**	**tons/loco**
Value	25	20.8	209	18

Notes:

1. US EPA 1998, Locomotive Emission Standards, Appendix I. Peak idling power.
2. US EPA 2009, Emission Factors for Locomotives, Table 3.
3. Provided by BNSF.

CORRIDOR EMISSION CALCULATIONS

Proposed Project Scenario	
Analysis Year	2048

Description:

Analysis of the train movement Eastbound and Westbound for the Proposed Project.
A composite emission factor is calculated using the MOU reported fleet mix and EPA emission factors.
Corridor parameters are daily averages provided by BNSF.
Eastbound uses in state fuel blend.
Westbound uses out-of-state fuel blend.

Out-of-State =	100%	0% RD Blend/Use		In State =	100%	10% RD Blend/Use
Out-of-State =	0% Renewable			In State =	10% Renewable	

Scenario Train Parameters[1]

Train Type	Train-Trip Length (Eastbound)	Train-Trip Length (Westbound)	Daily Train Trips (Eastbound)	Daily Train Trips (Westbound)	Locomotives (Eastbound)	Locomotives (Westbound)	Locomotive Weight (Eastbound)	Locomotive Weight (Westbound)	Freight Weight (Eastbound)	Freight Weight (Westbound)	Idling Time (Non-Directional)
Units	miles/trip	miles/trip	train-trips/day	train-trips/day	loco/train	loco/train	tons/train	tons/train	tons/train	tons/train	hours/day
B-Bare Table	25.20	25.20	0.71	2.86	2.00	2.00	454.00	454.00	2344.22	2684.37	0.46
Q-Guaranteed	25.20	25.20	5.33	6.55	3.35	2.47	759.41	561.52	5887.94	5442.03	1.10
S-Stack	25.20	25.20	4.67	5.82	5.56	3.62	1262.58	821.83	9789.19	7964.85	2.31
Z-Z Trains	25.20	25.20	16.25	12.89	3.94	3.45	894.77	782.51	5592.40	5005.04	1.48
NIM-Other Non-Intermodal	25.20	25.20	5.18	5.79	2.95	3.40	670.10	772.67	5195.49	7488.44	3.46

Notes:

1. Provided By BNSF. Average daily values.

Scenario Fuel Parameters[1]

Train Type	Horsepower per Ton (HPT) (Eastbound)	Horsepower per Ton (HPT) (Westbound)	East Elevation	West Elevation	Segment Length	Grade	Grade	Train Factor	Train Factor	Fuel Efficiency (Eastbound)	Fuel Efficiency (Westbound)
Units	bhp/ton	bhp/ton	ft	ft	mi	Eastbound	Westbound	Eastbound	Westbound	ton-miles/gal	ton-miles/gal
B-Bare Table	2.50	2.00	3775	1073	25	0.020	-0.020	-0.022	-0.067	179.40	6731.05
Q-Guaranteed	2.50	2.00	3775	1073	25	0.020	-0.020	0.122	0.109	227.19	8232.62
S-Stack	2.50	2.00	3775	1073	25	0.020	-0.020	-0.126	-0.022	196.98	7414.45
Z-Z Trains	3.10	3.03	3775	1073	25	0.020	-0.020	0.083	-0.050	197.37	6200.32
NIM-Other Non-Intermodal	2.50	2.00	3775	1073	25	0.020	-0.020	-0.057	0.030	186.40	7769.06

Notes:

1. Provided By BNSF. Fuel Efficiency based on regression model from 2023 train data.

CORRIDOR EMISSION CALCULATIONS

Proposed Project Scenario	
Analysis Year	2048

Description:

Analysis of the train movement Eastbound and Westbound for the Proposed Project.
A composite emission factor is calculated using the MOU reported fleet mix and EPA emission factors.
Corridor parameters are daily averages provided by BNSF.
Eastbound uses in state fuel blend.
Westbound uses out-of-state fuel blend.

Out-of-State =	100%	0% RD Blend/Use	In State =	100%	10% RD Blend/Use
Out-of-State =	0% Renewable		In State =	10% Renewable	

Scenario Daily Emissions Summary

Train Type	Total Peak Daily Corridor Criteria Pollutant Emissions [1] (tons/day)						Total Peak Daily Corridor GHG Emissions [1] (metric tons/day)			
Pollutant	**PM10**	**PM2.5**	**VOC**	**NOx**	**CO**	**SOx**	**CO_2**	**N_2O**	**CH_4**	**$CO2e^2$**
Non-Affected Trains	0.034	0.033	0.068	1.921	0.594	0.002	215.5	0.0	0.0	217.5
Affected Trains	0.024	0.024	0.049	1.381	0.427	0.002	141.7	0.0	0.0	143.1
Total	0.058	0.057	0.117	3.302	1.020	0.004	357.2	0.0	0.0	360.6

Direction of Travel	Average Moving Non-Affected Trains Daily Corridor Criteria Pollutant Emissions (tons/day)						Non-Affected Trains Daily Corridor GHG Emissions (metric tons/day)			
Pollutant	**PM10**	**PM2.5**	**VOC**	**NOx**	**CO**	**SOx**	**CO_2**	**N_2O**	**CH_4**	**$CO2e^2$**
Eastbound	0.029	0.028	0.057	1.621	0.501	0.002	182.7	0.0	0.0	184.4
Westbound	0.001	0.001	0.002	0.047	0.015	0.000	4.7	0.0	0.0	4.7
Total	0.029	0.029	0.059	1.668	0.515	0.002	187.3	0.0	0.0	189.1

Direction of Travel	Average Moving Affected Trains Daily Corridor Criteria Pollutant Emissions (tons/day)						Affected Trains Daily Corridor GHG Emissions (metric tons/day)			
Pollutant	**PM10**	**PM2.5**	**VOC**	**NOx**	**CO**	**SOx**	**CO_2**	**N_2O**	**CH_4**	**$CO2e^2$**
Eastbound	0.021	0.020	0.041	1.170	0.362	0.001	119.8	0.0	0.0	121.0
Westbound	0.001	0.001	0.001	0.035	0.011	0.000	3.8	0.0	0.0	3.8
Total	0.021	0.021	0.043	1.205	0.372	0.001	123.6	0.0	0.0	124.8

Train Type	Average Idling Daily Corridor Criteria Pollutant Emissions (tons/day)						Total Idling Daily Corridor GHG Emissions (metric tons/day)			
Pollutant	**PM10**	**PM2.5**	**VOC**	**NOx**	**CO**	**SOx**	**CO_2**	**N_2O**	**CH_4**	**$CO2e^2$**
Non-Affected Trains	5.69E-04	5.52E-04	1.13E-03	3.19E-02	9.87E-03	3.51E-05	3.4	0.0	0.0	3.4
Affected Trains	3.02E-04	2.93E-04	6.00E-04	1.69E-02	5.23E-03	1.86E-05	1.8	0.0	0.0	1.8
Total	8.70E-04	8.44E-04	1.73E-03	4.88E-02	1.51E-02	5.37E-05	5.1	0.0	0.0	5.2

Notes: 9.75E+01

1. Peak daily emissions based on 13% safety factor on average daily emissions.

2. Global warming potentials for CO2e based on Table A-1 to Subpart A of Part 98, Title 40. https://www.ecfr.gov/current/title-40/part-98/appendix-Table A-1 to Subpart A of Part 98

CORRIDOR EMISSION CALCULATIONS

Proposed Project Scenario	
Analysis Year	2048

Description:

Analysis of the train movement Eastbound and Westbound for the Proposed Project.
A composite emission factor is calculated using the MOU reported fleet mix and EPA emission factors.
Corridor parameters are daily averages provided by BNSF.
Eastbound uses in state fuel blend.
Westbound uses out-of-state fuel blend.

Out-of-State =	100%	0% RD Blend/Use	In State =	100%	10% RD Blend/Use
Out-of-State =	0%	Renewable	In State =	10%	Renewable

Scenario Fleet Parameters

Tier	Locomotive Inventory[1]	Locomotive Fleet Mix (%)[1]	Composite Line-Haul Criteria Pollutant Emission Factors (g/gal)						GHG (g/gal)[2]		
			PM10	PM2.5	VOC	NOx	CO	SOx	CO_2	N_2O	CH_4
Uncontrolled	0	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tier 0	0	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tier 0+	0	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tier 1	0	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tier 1+	360	8.62%	0.36	0.35	0.63	12.01	2.30	0.01	880.17	0.02	0.07
Tier 2	0	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tier 2+	1589	38.05%	0.63	0.61	1.24	39.18	10.13	0.04	3884.98	0.10	0.30
Tier 3	1198	28.69%	0.48	0.46	0.94	29.54	7.64	0.03	2929.02	0.07	0.23
Tier 4	1029	24.64%	0.08	0.07	0.25	5.13	6.56	0.02	2515.83	0.06	0.20
Total - Westbound[3]	**4,176**	**100%**	**1.55**	**1.50**	**3.06**	**85.85**	**26.62**	**0.09**	**10210**	**0.26**	**0.80**
Total - Eastbound[3]	**4,176**	**100%**	**1.50**	**1.45**	**2.99**	**84.81**	**26.21**	**0.09**	**9577**	**0.24**	**0.75**

Notes:

1. Locomotive Inventory based on 2023 CARB 98 MOU.
2. GHG emissions adjusted for 62% reduction for Carbon Intensity for any renewable diesl usage (CARB 2024).
3. Adjusted for alternative fuel blend.

Locomotive Parameters

Locomotive Parameters	Idling Power Rating[1]	Brake Specific Fuel Consumption[2]	Weight of Locomotive Engine[3]	Weight of Fuel[3]
Units	**bhp/loco**	**bhp-hr/gal**	**tons/loco**	**tons/loco**
Value	25	20.8	209	18

Notes:

1. US EPA 1998, Locomotive Emission Standards, Appendix I. Peak idling power.
2. US EPA 2009, Emission Factors for Locomotives, Table 3.
3. Provided by BNSF.

CORRIDOR EMISSION CALCULATIONS

Proposed Project Scenario	
Analysis Year	2048

Description:

Analysis of the train movement Eastbound and Westbound for the Proposed Project.
A composite emission factor is calculated using the MOU reported fleet mix and EPA emission factors.
Corridor parameters are daily averages provided by BNSF.
Eastbound uses in state fuel blend.
Westbound uses out-of-state fuel blend.

Out-of-State =	100%	0% RD Blend/Use		In State =	100%	10% RD Blend/Use
Out-of-State =	0% Renewable			In State =	10% Renewable	

Scenario Train Parameters[1]

Train Type	Train-Trip Length (Eastbound)	Train-Trip Length (Westbound)	Daily Train Trips (Eastbound)	Daily Train Trips (Westbound)	Locomotives (Eastbound)	Locomotives (Westbound)	Locomotive Weight (Eastbound)	Locomotive Weight (Westbound)	Freight Weight (Eastbound)	Freight Weight (Westbound)	Idling Time (Non-Directional)
Units	miles/trip	miles/trip	train-trips/day	train-trips/day	loco/train	loco/train	tons/train	tons/train	tons/train	tons/train	hours/day
B-Bare Table	56.10	56.10	0.70	2.85	2.00	2.00	454.00	454.00	2307.42	2681.37	0.23
Q-Guaranteed	56.10	56.10	5.33	6.56	3.35	2.48	759.40	562.39	5887.87	5450.50	1.09
S-Stack	56.10	56.10	4.67	5.81	5.56	3.62	1263.07	821.52	9792.95	7961.87	1.35
Z-Z Trains	56.10	56.10	16.25	12.89	3.94	3.45	894.78	782.87	5592.45	5007.35	0.68
NIM-Other Non-Intermodal	56.10	56.10	5.02	5.64	2.93	3.39	665.23	768.58	5157.71	7448.78	4.72

Notes:

1. Provided By BNSF. Average daily values.

Scenario Fuel Parameters[1]

Train Type	Horsepower per Ton (HPT) (Eastbound)	Horsepower per Ton (HPT) (Westbound)	East Elevation	West Elevation	Segment Length	Grade	Grade	Train Factor	Train Factor	Fuel Efficiency (Eastbound)	Fuel Efficiency (Westbound)
Units	bhp/ton	bhp/ton	ft	ft	mi	Eastbound	Westbound	Eastbound	Westbound	ton-miles/gal	ton-miles/gal
B-Bare Table	2.50	2.00	2117	3775	56	-0.006	0.006	-0.022	-0.067	1715.52	669.51
Q-Guaranteed	2.50	2.00	2117	3775	56	-0.006	0.006	0.122	0.109	2174.46	818.95
S-Stack	2.50	2.00	2117	3775	56	-0.006	0.006	-0.126	-0.022	1885.46	737.48
Z-Z Trains	3.10	3.03	2117	3775	56	-0.006	0.006	0.083	-0.050	1889.07	616.75
NIM-Other Non-Intermodal	2.50	2.00	2117	3775	56	-0.006	0.006	-0.057	0.030	1782.18	772.47

Notes:

1. Provided By BNSF. Fuel Efficiency based on regression model from 2023 train data.

CORRIDOR EMISSION CALCULATIONS

Proposed Project Scenario	
Analysis Year	2048

Description:

Analysis of the train movement Eastbound and Westbound for the Proposed Project.
A composite emission factor is calculated using the MOU reported fleet mix and EPA emission factors.
Corridor parameters are daily averages provided by BNSF.
Eastbound uses in state fuel blend.
Westbound uses out-of-state fuel blend.

Out-of-State =	100%	0% RD Blend/Use	In State =	100%	10% RD Blend/Use
Out-of-State =	0% Renewable		In State =	10% Renewable	

Scenario Daily Emissions Summary

Train Type	Total Peak Daily Corridor Criteria Pollutant Emissions [1] (tons/day)						Total Peak Daily Corridor GHG Emissions [1] (metric tons/day)			
Pollutant	**PM10**	**PM2.5**	**VOC**	**NOx**	**CO**	**SOx**	**CO_2**	**N_2O**	**CH_4**	**$CO2e^2$**
Non-Affected Trains	0.029	0.028	0.058	1.629	0.505	0.002	173.4	0.0	0.0	175.0
Affected Trains	0.022	0.021	0.043	1.212	0.375	0.001	129.0	0.0	0.0	130.2
Total	0.051	0.049	0.101	2.841	0.880	0.003	302.4	0.0	0.0	305.3

Direction of Travel	Average Moving Non-Affected Trains Daily Corridor Criteria Pollutant Emissions (tons/day)						Non-Affected Trains Daily Corridor GHG Emissions (metric tons/day)			
Pollutant	**PM10**	**PM2.5**	**VOC**	**NOx**	**CO**	**SOx**	**CO_2**	**N_2O**	**CH_4**	**$CO2e^2$**
Eastbound	0.007	0.006	0.013	0.374	0.116	0.000	38.3	0.0	0.0	38.7
Westbound	0.019	0.018	0.037	1.042	0.323	0.001	112.4	0.0	0.0	113.4
Total	0.025	0.025	0.050	1.415	0.439	0.002	150.7	0.0	0.0	152.1

Direction of Travel	Average Moving Affected Trains Daily Corridor Criteria Pollutant Emissions (tons/day)						Affected Trains Daily Corridor GHG Emissions (metric tons/day)			
Pollutant	**PM10**	**PM2.5**	**VOC**	**NOx**	**CO**	**SOx**	**CO_2**	**N_2O**	**CH_4**	**$CO2e^2$**
Eastbound	0.005	0.005	0.010	0.272	0.084	0.000	27.9	0.0	0.0	28.2
Westbound	0.014	0.014	0.028	0.789	0.245	0.001	85.1	0.0	0.0	85.9
Total	0.019	0.018	0.038	1.061	0.329	0.001	113.0	0.0	0.0	114.0

Train Type	Average Idling Daily Corridor Criteria Pollutant Emissions (tons/day)						Total Idling Daily Corridor GHG Emissions (metric tons/day)			
Pollutant	**PM10**	**PM2.5**	**VOC**	**NOx**	**CO**	**SOx**	**CO_2**	**N_2O**	**CH_4**	**$CO2e^2$**
Non-Affected Trains	4.71E-04	4.57E-04	9.37E-04	2.64E-02	8.18E-03	2.91E-05	2.8	0.0	0.0	2.8
Affected Trains	2.06E-04	2.00E-04	4.10E-04	1.15E-02	3.57E-03	1.27E-05	1.2	0.0	0.0	1.2
Total	6.77E-04	6.57E-04	1.35E-03	3.80E-02	1.18E-02	4.18E-05	4.0	0.0	0.0	4.0

Notes:

1. Peak daily emissions based on 13% safety factor on average daily emissions.

2. Global warming potentials for CO2e based on Table A-1 to Subpart A of Part 98, Title 40. https://www.ecfr.gov/current/title-40/part-98/appendix-Table A-1 to Subpart A of Part 98

CORRIDOR EMISSION CALCULATIONS

Proposed Project Scenario	
Analysis Year	2048

Description:

Analysis of the train movement Eastbound and Westbound for the Proposed Project.
A composite emission factor is calculated using the MOU reported fleet mix and EPA emission factors.
Corridor parameters are daily averages provided by BNSF.
Eastbound uses in state fuel blend.
Westbound uses out-of-state fuel blend.

Out-of-State =	100%	0% RD Blend/Use		In State =	100%	10% RD Blend/Use
Out-of-State =	0%	Renewable		In State =	10%	Renewable

Scenario Fleet Parameters

Tier	Locomotive Inventory[1]	Locomotive Fleet Mix (%)[1]	Composite Line-Haul Criteria Pollutant Emission Factors (g/gal)						GHG (g/gal)[2]		
			PM10	PM2.5	VOC	NOx	CO	SOx	CO_2	N_2O	CH_4
Uncontrolled	0	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tier 0	0	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tier 0+	0	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tier 1	0	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tier 1+	360	8.62%	0.36	0.35	0.63	12.01	2.30	0.01	880.17	0.02	0.07
Tier 2	0	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tier 2+	1589	38.05%	0.63	0.61	1.24	39.18	10.13	0.04	3884.98	0.10	0.30
Tier 3	1198	28.69%	0.48	0.46	0.94	29.54	7.64	0.03	2929.02	0.07	0.23
Tier 4	1029	24.64%	0.08	0.07	0.25	5.13	6.56	0.02	2515.83	0.06	0.20
Total - Westbound[3]	**4,176**	**100%**	**1.55**	**1.50**	**3.06**	**85.85**	**26.62**	**0.09**	**10210**	**0.26**	**0.80**
Total - Eastbound[3]	**4,176**	**100%**	**1.50**	**1.45**	**2.99**	**84.81**	**26.21**	**0.09**	**9577**	**0.24**	**0.75**

Notes:

1. Locomotive Inventory based on 2023 CARB 98 MOU.
2. GHG emissions adjusted for 62% reduction for Carbon Intensity for any renewable diesl usage (CARB 2024).
3. Adjusted for alternative fuel blend.

Locomotive Parameters

Locomotive Parameters	Idling Power Rating[1]	Brake Specific Fuel Consumption[2]	Weight of Locomotive Engine[3]	Weight of Fuel[3]
Units	**bhp/loco**	**bhp-hr/gal**	**tons/loco**	**tons/loco**
Value	25	20.8	209	18

Notes:

1. US EPA 1998, Locomotive Emission Standards, Appendix I. Peak idling power.
2. US EPA 2009, Emission Factors for Locomotives, Table 3.
3. Provided by BNSF.

CORRIDOR EMISSION CALCULATIONS

Proposed Project Scenario	
Analysis Year	2048

Description:

Analysis of the train movement Eastbound and Westbound for the Proposed Project.
A composite emission factor is calculated using the MOU reported fleet mix and EPA emission factors.
Corridor parameters are daily averages provided by BNSF.
Eastbound uses in state fuel blend.
Westbound uses out-of-state fuel blend.

Out-of-State =	100%	0% RD Blend/Use		In State =	100%	10% RD Blend/Use
Out-of-State =	0% Renewable			In State =	10% Renewable	

Scenario Train Parameters[1]

Train Type	Train-Trip Length (Eastbound)	Train-Trip Length (Westbound)	Daily Train Trips (Eastbound)	Daily Train Trips (Westbound)	Locomotives (Eastbound)	Locomotives (Westbound)	Locomotive Weight (Eastbound)	Locomotive Weight (Westbound)	Freight Weight (Eastbound)	Freight Weight (Westbound)	Idling Time (Non-Directional)
Units	miles/trip	miles/trip	train-trips/day	train-trips/day	loco/train	loco/train	tons/train	tons/train	tons/train	tons/train	hours/day
B-Bare Table	167.40	167.40	0.55	1.88	2.00	2.00	454.00	454.00	2405.38	2719.81	1.24
Q-Guaranteed	167.40	167.40	12.16	12.57	2.68	2.66	609.18	603.96	5903.96	5853.32	2.01
S-Stack	167.40	167.40	4.77	5.86	4.43	3.65	1006.08	827.47	9750.60	8019.52	2.06
Z-Z Trains	167.40	167.40	20.10	17.79	3.78	3.39	857.67	770.07	5357.14	4811.96	1.98
NIM-Other Non-Intermodal	167.40	167.40	6.81	7.75	2.80	4.67	636.50	1060.69	6168.76	10279.78	5.02

Notes:

1. Provided By BNSF. Average daily values.

Scenario Fuel Parameters[1]

Train Type	Horsepower per Ton (HPT) (Eastbound)	Horsepower per Ton (HPT) (Westbound)	East Elevation	West Elevation	Segment Length	Grade	Grade	Train Factor	Train Factor	Fuel Efficiency (Eastbound)	Fuel Efficiency (Westbound)
Units	bhp/ton	bhp/ton	ft	ft	mi	Eastbound	Westbound	Eastbound	Westbound	ton-miles/gal	ton-miles/gal
B-Bare Table	2.00	2.00	490	2117	167.40	-0.002	0.002	-0.022	-0.067	356.08	594.45
Q-Guaranteed	2.00	2.00	490	2117	167.40	-0.002	0.002	0.122	0.109	448.84	729.83
S-Stack	2.00	2.00	490	2117	167.40	-0.002	0.002	-0.126	-0.022	387.65	654.95
Z-Z Trains	3.10	3.10	490	2117	167.40	-0.002	0.002	0.083	-0.050	358.36	541.73
NIM-Other Non-Intermodal	2.00	2.00	490	2117	167.40	-0.002	0.002	-0.057	0.030	377.84	705.39

Notes:

1. Provided By BNSF. Fuel Efficiency based on regression model from 2023 train data.

CORRIDOR EMISSION CALCULATIONS

Proposed Project Scenario	
Analysis Year	2048

Description:

Analysis of the train movement Eastbound and Westbound for the Proposed Project.
A composite emission factor is calculated using the MOU reported fleet mix and EPA emission factors.
Corridor parameters are daily averages provided by BNSF.
Eastbound uses in state fuel blend.
Westbound uses out-of-state fuel blend.

Out-of-State =	100%	0% RD Blend/Use	In State =	100%	10% RD Blend/Use
Out-of-State =	0% Renewable		In State =	10% Renewable	

Scenario Daily Emissions Summary

Train Type	Total Peak Daily Corridor Criteria Pollutant Emissions [1] (tons/day)						Total Peak Daily Corridor GHG Emissions [1] (metric tons/day)			
Pollutant	**PM10**	**PM2.5**	**VOC**	**NOx**	**CO**	**SOx**	**CO_2**	**N_2O**	**CH_4**	**$CO2e^2$**
Non-Affected Trains	0.262	0.254	0.521	14.707	4.552	0.016	1540.5	0.0	0.1	1555.2
Affected Trains	0.192	0.186	0.382	10.774	3.334	0.012	1126.6	0.0	0.1	1137.3
Total	0.454	0.440	0.903	25.482	7.886	0.028	2667.1	0.1	0.2	2692.5

Direction of Travel	Average Moving Non-Affected Trains Daily Corridor Criteria Pollutant Emissions (tons/day)						Non-Affected Trains Daily Corridor GHG Emissions (metric tons/day)			
Pollutant	**PM10**	**PM2.5**	**VOC**	**NOx**	**CO**	**SOx**	**CO_2**	**N_2O**	**CH_4**	**$CO2e^2$**
Eastbound	0.132	0.128	0.264	7.479	2.311	0.008	766.1	0.0	0.1	773.4
Westbound	0.099	0.096	0.195	5.475	1.698	0.006	590.7	0.0	0.0	596.3
Total	0.231	0.224	0.459	12.954	4.009	0.014	1356.8	0.0	0.1	1369.7

Direction of Travel	Average Moving Affected Trains Daily Corridor Criteria Pollutant Emissions (tons/day)						Affected Trains Daily Corridor GHG Emissions (metric tons/day)			
Pollutant	**PM10**	**PM2.5**	**VOC**	**NOx**	**CO**	**SOx**	**CO_2**	**N_2O**	**CH_4**	**$CO2e^2$**
Eastbound	0.103	0.100	0.205	5.806	1.794	0.006	594.7	0.0	0.0	600.4
Westbound	0.067	0.065	0.132	3.703	1.148	0.004	399.5	0.0	0.0	403.4
Total	0.169	0.164	0.337	9.509	2.943	0.010	994.3	0.0	0.1	1003.8

Train Type	Average Idling Daily Corridor Criteria Pollutant Emissions (tons/day)						Total Idling Daily Corridor GHG Emissions (metric tons/day)			
Pollutant	**PM10**	**PM2.5**	**VOC**	**NOx**	**CO**	**SOx**	**CO_2**	**N_2O**	**CH_4**	**$CO2e^2$**
Non-Affected Trains	1.10E-03	1.07E-03	2.20E-03	6.19E-02	1.92E-02	6.81E-05	6.5	0.0	0.0	6.6
Affected Trains	4.56E-04	4.43E-04	9.07E-04	2.56E-02	7.92E-03	2.81E-05	2.7	0.0	0.0	2.7
Total	1.56E-03	1.51E-03	3.10E-03	8.75E-02	2.71E-02	9.63E-05	9.2	0.0	0.0	9.3

Notes:

1. Peak daily emissions based on 13% safety factor on average daily emissions.

2. Global warming potentials for CO2e based on Table A-1 to Subpart A of Part 98, Title 40. https://www.ecfr.gov/current/title-40/part-98/appendix-Table A-1 to Subpart A of Part 98

CORRIDOR EMISSION CALCULATIONS

Proposed Project Scenario	
Analysis Year	2048

Description:

Analysis of the train movement Eastbound and Westbound for the Proposed Project Dedicated Fleet.
A composite emission factor is calculated using the MOU reported fleet mix and EPA emission factors.
Corridor parameters are daily averages provided by BNSF.
Eastbound uses in state fuel blend.
Westbound uses out-of-state fuel blend.

Out-of-State =	100%	0% RD Blend/Use		In State =	100%	10% RD Blend/Use
Out-of-State =	0%	Renewable		In State =	10%	Renewable

Scenario Fleet Parameters

Tier	Locomotive Inventory[1]	Locomotive Fleet Mix (%)[1]	Composite Line-Haul Criteria Pollutant Emission Factors (g/gal)						GHG (g/gal)[2]		
			PM10	PM2.5	VOC	NOx	CO	SOx	CO_2	N_2O	CH_4
Uncontrolled	0	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tier 0	0	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tier 0+	0	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tier 1	0	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tier 1+	0	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tier 2	0	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tier 2+	0	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tier 3	0	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tier 4	38	100.00%	0.31	0.30	1.01	20.80	26.62	0.09	10210.00	0.26	0.80
Total - Westbound[3]	**38**	**100%**	**0.31**	**0.30**	**1.01**	**20.80**	**26.62**	**0.09**	**10210**	**0.26**	**0.80**
Total - Eastbound[3]	**38**	**100%**	**0.30**	**0.29**	**0.98**	**20.55**	**26.21**	**0.09**	**9577**	**0.24**	**0.75**

Notes:

1. Locomotive Inventory based on 2023 CARB 98 MOU.
2. GHG emissions adjusted for 62% reduction for Carbon Intensity for any renewable diesl usage (CARB 2024).
3. Adjusted for alternative fuel blend.

Locomotive Parameters

Locomotive Parameters	Idling Power Rating[1]	Brake Specific Fuel Consumption[2]	Weight of Locomotive Engine[3]	Weight of Fuel[3]
Units	**bhp/loco**	**bhp-hr/gal**	**tons/loco**	**tons/loco**
Value	25	20.8	209	18

Notes:

1. US EPA 1998, Locomotive Emission Standards, Appendix I. Peak idling power.
2. US EPA 2009, Emission Factors for Locomotives, Table 3.
3. Provided by BNSF.

CORRIDOR EMISSION CALCULATIONS

Proposed Project Scenario	
Analysis Year	2048

Description:

Analysis of the train movement Eastbound and Westbound for the Proposed Project Dedicated Fleet.
A composite emission factor is calculated using the MOU reported fleet mix and EPA emission factors.
Corridor parameters are daily averages provided by BNSF.
Eastbound uses in state fuel blend.
Westbound uses out-of-state fuel blend.

Out-of-State =	100%	0% RD Blend/Use		In State =	100%	10% RD Blend/Use
Out-of-State =	0%	Renewable		In State =	10%	Renewable

Scenario Train Parameters[1]

Train Type	Train-Trip Length (Eastbound)	Train-Trip Length (Westbound)	Daily Train Trips (Eastbound)	Daily Train Trips (Westbound)	Locomotives (Eastbound)	Locomotives (Westbound)	Locomotive Weight (Eastbound)	Locomotive Weight (Westbound)	Freight Weight (Eastbound)	Freight Weight (Westbound)	Idling Time (Non-Directional)
Units	miles/trip	miles/trip	train-trips/day	train-trips/day	loco/train	loco/train	tons/train	tons/train	tons/train	tons/train	hours/day
S-BAR6	86.20	86.20	2.23	2.76	5.60	3.49	1271.07	792.43	9854.98	7679.92	2.31

Notes:

1. Provided By BNSF. Average daily values.

Scenario Fuel Parameters[1]

Train Type	Horsepower per Ton (HPT) (Eastbound)	Horsepower per Ton (HPT) (Westbound)	East Elevation	West Elevation	Segment Length	Grade	Grade	Train Factor	Train Factor	Fuel Efficiency (Eastbound)	Fuel Efficiency (Westbound)
Units	bhp/ton	bhp/ton	ft	ft	mi	Eastbound	Westbound	Eastbound	Westbound	ton-miles/gal	ton-miles/gal
S-BAR6	2.50	2.00	1073	17	112	0.002	-0.002	-0.126	-0.022	634.97	1218.87

Notes:

1. Provided By BNSF. Fuel Efficiency based on regression model from 2023 train data.

CORRIDOR EMISSION CALCULATIONS

Proposed Project Scenario	
Analysis Year	2048

Description:

Analysis of the train movement Eastbound and Westbound for the Proposed Project Dedicated Fleet.
A composite emission factor is calculated using the MOU reported fleet mix and EPA emission factors.
Corridor parameters are daily averages provided by BNSF.
Eastbound uses in state fuel blend.
Westbound uses out-of-state fuel blend.

Out-of-State =	100%	0% RD Blend/Use		In State =	100%	10% RD Blend/Use
Out-of-State =	0% Renewable			In State =	10% Renewable	

Scenario Daily Emissions Summary

Train Type	Total Peak Daily Corridor Criteria Pollutant Emissions [1] (tons/day)						Total Peak Daily Corridor GHG Emissions [1] (metric tons/day)			
Pollutant	**PM10**	**PM2.5**	**VOC**	**NOx**	**CO**	**SOx**	**CO_2**	**N_2O**	**CH_4**	**$CO2e^2$**
Non-Affected Trains	0.000	0.000	0.000	0.000	0.000	0.000	0.0	0.0	0.0	0.0
Affected Trains	0.002	0.002	0.006	0.131	0.167	0.001	56.2	0.0	0.0	56.8
Total	0.002	0.002	0.006	0.131	0.167	0.001	56.2	0.0	0.0	56.8

Direction of Travel	Average Moving Non-Affected Trains Daily Corridor Criteria Pollutant Emissions (tons/day)						Non-Affected Trains Daily Corridor GHG Emissions (metric tons/day)			
Pollutant	**PM10**	**PM2.5**	**VOC**	**NOx**	**CO**	**SOx**	**CO_2**	**N_2O**	**CH_4**	**$CO2e^2$**
Eastbound	0.000	0.000	0.000	0.000	0.000	0.000	0.0	0.0	0.0	0.0
Westbound	0.000	0.000	0.000	0.000	0.000	0.000	0.0	0.0	0.0	0.0
Total	0.000	0.000	0.000	0.000	0.000	0.000	0.0	0.0	0.0	0.0

Direction of Travel	Average Moving Affected Trains Daily Corridor Criteria Pollutant Emissions (tons/day)						Affected Trains Daily Corridor GHG Emissions (metric tons/day)			
Pollutant	**PM10**	**PM2.5**	**VOC**	**NOx**	**CO**	**SOx**	**CO_2**	**N_2O**	**CH_4**	**$CO2e^2$**
Eastbound	0.001	0.001	0.004	0.076	0.097	0.000	32.3	0.0	0.0	32.6
Westbound	0.001	0.001	0.002	0.038	0.049	0.000	16.9	0.0	0.0	17.1
Total	0.002	0.002	0.005	0.114	0.146	0.001	49.2	0.0	0.0	49.6

Train Type	Average Idling Daily Corridor Criteria Pollutant Emissions (tons/day)						Total Idling Daily Corridor GHG Emissions (metric tons/day)			
Pollutant	**PM10**	**PM2.5**	**VOC**	**NOx**	**CO**	**SOx**	**CO_2**	**N_2O**	**CH_4**	**$CO2e^2$**
Non-Affected Trains	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.0	0.0	0.0	0.0
Affected Trains	2.08E-05	2.02E-05	6.76E-05	1.40E-03	1.79E-03	6.37E-06	0.6	0.0	0.0	0.6
Total	2.08E-05	2.02E-05	6.76E-05	1.40E-03	1.79E-03	6.37E-06	0.6	0.0	0.0	0.6

Notes:

1. Peak daily emissions based on 13% safety factor on average daily emissions.

2. Global warming potentials for CO2e based on Table A-1 to Subpart A of Part 98, Title 40. https://www.ecfr.gov/current/title-40/part-98/appendix-Table A-1 to Subpart A of Part 98

CORRIDOR EMISSION CALCULATIONS

Proposed Project Scenario	
Analysis Year	2048

Description:

Analysis of the train movement Eastbound and Westbound for the Proposed Project Dedicated Fleet.
A composite emission factor is calculated using the MOU reported fleet mix and EPA emission factors.
Corridor parameters are daily averages provided by BNSF.
Eastbound uses in state fuel blend.
Westbound uses out-of-state fuel blend.

Out-of-State =	100%	0% RD Blend/Use		In State =	100%	10% RD Blend/Use	
Out-of-State =	0% Renewable			In State =	10% Renewable		

Scenario Fleet Parameters

Tier	Locomotive Inventory[1]	Locomotive Fleet Mix (%)[1]	Composite Line-Haul Criteria Pollutant Emission Factors (g/gal)						GHG (g/gal)[2]		
			PM10	PM2.5	VOC	NOx	CO	SOx	CO_2	N_2O	CH_4
Uncontrolled	0	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tier 0	0	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tier 0+	0	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tier 1	0	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tier 1+	0	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tier 2	0	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tier 2+	0	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tier 3	0	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tier 4	38	100.00%	0.31	0.30	1.01	20.80	26.62	0.09	10210.00	0.26	0.80
Total - Westbound[3]	**38**	**100%**	**0.31**	**0.30**	**1.01**	**20.80**	**26.62**	**0.09**	**10210**	**0.26**	**0.80**
Total - Eastbound[3]	**38**	**100%**	**0.30**	**0.29**	**0.98**	**20.55**	**26.21**	**0.09**	**9577**	**0.24**	**0.75**

Notes:

1. Locomotive Inventory based on 2023 CARB 98 MOU.
2. GHG emissions adjusted for 62% reduction for Carbon Intensity for any renewable diesl usage (CARB 2024).
3. Adjusted for alternative fuel blend.

Locomotive Parameters

Locomotive Parameters	Idling Power Rating[1]	Brake Specific Fuel Consumption[2]	Weight of Locomotive Engine[3]	Weight of Fuel[3]
Units	**bhp/loco**	**bhp-hr/gal**	**tons/loco**	**tons/loco**
Value	25	20.8	209	18

Notes:

1. US EPA 1998, Locomotive Emission Standards, Appendix I. Peak idling power.
2. US EPA 2009, Emission Factors for Locomotives, Table 3.
3. Provided by BNSF.

CORRIDOR EMISSION CALCULATIONS

Proposed Project Scenario	
Analysis Year	2048

Description:

Analysis of the train movement Eastbound and Westbound for the Proposed Project Dedicated Fleet.
A composite emission factor is calculated using the MOU reported fleet mix and EPA emission factors.
Corridor parameters are daily averages provided by BNSF.
Eastbound uses in state fuel blend.
Westbound uses out-of-state fuel blend.

Out-of-State =	100%	0% RD Blend/Use		In State =	100%	10% RD Blend/Use
Out-of-State =	0%	Renewable		In State =	10%	Renewable

Scenario Train Parameters[1]

Train Type	Train-Trip Length (Eastbound)	Train-Trip Length (Westbound)	Daily Train Trips (Eastbound)	Daily Train Trips (Westbound)	Locomotives (Eastbound)	Locomotives (Westbound)	Locomotive Weight (Eastbound)	Locomotive Weight (Westbound)	Freight Weight (Eastbound)	Freight Weight (Westbound)	Idling Time (Non-Directional)
Units	miles/trip	miles/trip	train-trips/day	train-trips/day	loco/train	loco/train	tons/train	tons/train	tons/train	tons/train	hours/day
S-BAR6	25.20	25.20	2.21	2.75	5.56	3.62	1262.58	821.83	9789.19	7964.85	2.31

Notes:

1. Provided By BNSF. Average daily values.

Scenario Fuel Parameters[1]

Train Type	Horsepower per Ton (HPT) (Eastbound)	Horsepower per Ton (HPT) (Westbound)	East Elevation	West Elevation	Segment Length	Grade	Grade	Train Factor	Train Factor	Fuel Efficiency (Eastbound)	Fuel Efficiency (Westbound)
Units	bhp/ton	bhp/ton	ft	ft	mi	Eastbound	Westbound	Eastbound	Westbound	ton-miles/gal	ton-miles/gal
S-BAR6	2.50	2.00	3775	1073	25	0.020	-0.020	-0.126	-0.022	196.98	7414.45

Notes:

1. Provided By BNSF. Fuel Efficiency based on regression model from 2023 train data.

CORRIDOR EMISSION CALCULATIONS

Proposed Project Scenario	
Analysis Year	2048

Description:

Analysis of the train movement Eastbound and Westbound for the Proposed Project Dedicated Fleet.
A composite emission factor is calculated using the MOU reported fleet mix and EPA emission factors.
Corridor parameters are daily averages provided by BNSF.
Eastbound uses in state fuel blend.
Westbound uses out-of-state fuel blend.

Out-of-State =	100%	0% RD Blend/Use		In State =	100%	10% RD Blend/Use
Out-of-State =	0% Renewable			In State =	10% Renewable	

Scenario Daily Emissions Summary

Train Type	Total Peak Daily Corridor Criteria Pollutant Emissions [1]						Total Peak Daily Corridor GHG Emissions [1]			
Pollutant	**PM10**	**PM2.5**	**VOC**	**NOx**	**CO**	**SOx**	**CO_2**	**N_2O**	**CH_4**	**$CO2e^2$**
Non-Affected Trains	0.000	0.000	0.000	0.000	0.000	0.000	0.0	0.0	0.0	0.0
Affected Trains	0.001	0.001	0.004	0.084	0.107	0.000	35.5	0.0	0.0	35.8
Total	0.001	0.001	0.004	0.084	0.107	0.000	35.5	0.0	0.0	35.8

Direction of Travel	Average Moving Non-Affected Trains Daily Corridor Criteria Pollutant Emissions						Non-Affected Trains Daily Corridor GHG Emissions			
Pollutant	**PM10**	**PM2.5**	**VOC**	**NOx**	**CO**	**SOx**	**CO_2**	**N_2O**	**CH_4**	**$CO2e^2$**
Eastbound	0.000	0.000	0.000	0.000	0.000	0.000	0.0	0.0	0.0	0.0
Westbound	0.000	0.000	0.000	0.000	0.000	0.000	0.0	0.0	0.0	0.0
Total	0.000	0.000	0.000	0.000	0.000	0.000	0.0	0.0	0.0	0.0

Direction of Travel	Average Moving Affected Trains Daily Corridor Criteria Pollutant Emissions						Affected Trains Daily Corridor GHG Emissions			
Pollutant	**PM10**	**PM2.5**	**VOC**	**NOx**	**CO**	**SOx**	**CO_2**	**N_2O**	**CH_4**	**$CO2e^2$**
Eastbound	0.001	0.001	0.003	0.071	0.090	0.000	29.9	0.0	0.0	30.2
Westbound	0.000	0.000	0.000	0.002	0.002	0.000	0.8	0.0	0.0	0.8
Total	0.001	0.001	0.003	0.073	0.093	0.000	30.8	0.0	0.0	31.1

Train Type	Average Idling Daily Corridor Criteria Pollutant Emissions						Total Idling Daily Corridor GHG Emissions			
Pollutant	**PM10**	**PM2.5**	**VOC**	**NOx**	**CO**	**SOx**	**CO_2**	**N_2O**	**CH_4**	**$CO2e^2$**
Non-Affected Trains	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.0	0.0	0.0	0.0
Affected Trains	2.10E-05	2.03E-05	6.79E-05	1.41E-03	1.80E-03	6.41E-06	0.6	0.0	0.0	0.6
Total	2.10E-05	2.03E-05	6.79E-05	1.41E-03	1.80E-03	6.41E-06	0.6	0.0	0.0	0.6

Notes:

1. Peak daily emissions based on 13% safety factor on average daily emissions.

2. Global warming potentials for CO2e based on Table A-1 to Subpart A of Part 98, Title 40. https://www.ecfr.gov/current/title-40/part-98/appendix-Table A-1 to Subpart A of Part 98

CORRIDOR EMISSION CALCULATIONS

Proposed Project Scenario	
Analysis Year	2048

Description:

Analysis of the train movement Eastbound and Westbound for the Proposed Project Dedicated Fleet.
A composite emission factor is calculated using the MOU reported fleet mix and EPA emission factors.
Corridor parameters are daily averages provided by BNSF.
Eastbound uses in state fuel blend.
Westbound uses out-of-state fuel blend.

Out-of-State =	100%	0% RD Blend/Use		In State =	100%	10% RD Blend/Use
Out-of-State =	0%	Renewable		In State =	10%	Renewable

Scenario Fleet Parameters

Tier	Locomotive Inventory[1]	Locomotive Fleet Mix (%)[1]	Composite Line-Haul Criteria Pollutant Emission Factors (g/gal)						GHG (g/gal)[2]		
			PM10	PM2.5	VOC	NOx	CO	SOx	CO_2	N_2O	CH_4
Uncontrolled	0	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tier 0	0	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tier 0+	0	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tier 1	0	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tier 1+	0	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tier 2	0	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tier 2+	0	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tier 3	0	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tier 4	38	100.00%	0.31	0.30	1.01	20.80	26.62	0.09	10210.00	0.26	0.80
Total - Westbound[3]	**38**	**100%**	**0.31**	**0.30**	**1.01**	**20.80**	**26.62**	**0.09**	**10210**	**0.26**	**0.80**
Total - Eastbound[3]	**38**	**100%**	**0.30**	**0.29**	**0.98**	**20.55**	**26.21**	**0.09**	**9577**	**0.24**	**0.75**

Notes:

1. Locomotive Inventory based on 2023 CARB 98 MOU.
2. GHG emissions adjusted for 62% reduction for Carbon Intensity for any renewable diesl usage (CARB 2024).
3. Adjusted for alternative fuel blend.

Locomotive Parameters

Locomotive Parameters	Idling Power Rating[1]	Brake Specific Fuel Consumption[2]	Weight of Locomotive Engine[3]	Weight of Fuel[3]
Units	**bhp/loco**	**bhp-hr/gal**	**tons/loco**	**tons/loco**
Value	25	20.8	209	18

Notes:

1. US EPA 1998, Locomotive Emission Standards, Appendix I. Peak idling power.
2. US EPA 2009, Emission Factors for Locomotives, Table 3.
3. Provided by BNSF.

CORRIDOR EMISSION CALCULATIONS

Proposed Project Scenario	
Analysis Year	2048

Description:

Analysis of the train movement Eastbound and Westbound for the Proposed Project Dedicated Fleet.
A composite emission factor is calculated using the MOU reported fleet mix and EPA emission factors.
Corridor parameters are daily averages provided by BNSF.
Eastbound uses in state fuel blend.
Westbound uses out-of-state fuel blend.

Out-of-State =	100%	0% RD Blend/Use		In State =	100%	10% RD Blend/Use
Out-of-State =	0%	Renewable		In State =	10%	Renewable

Scenario Train Parameters[1]

Train Type	Train-Trip Length (Eastbound)	Train-Trip Length (Westbound)	Daily Train Trips (Eastbound)	Daily Train Trips (Westbound)	Locomotives (Eastbound)	Locomotives (Westbound)	Locomotive Weight (Eastbound)	Locomotive Weight (Westbound)	Freight Weight (Eastbound)	Freight Weight (Westbound)	Idling Time (Non-Directional)
Units	miles/trip	miles/trip	train-trips/day	train-trips/day	loco/train	loco/train	tons/train	tons/train	tons/train	tons/train	hours/day
S-BAR6	56.10	56.10	2.21	2.75	5.56	3.62	1263.07	821.52	9792.95	7961.87	1.35

Notes:

1. Provided By BNSF. Average daily values.

Scenario Fuel Parameters[1]

Train Type	Horsepower per Ton (HPT) (Eastbound)	Horsepower per Ton (HPT) (Westbound)	East Elevation	West Elevation	Segment Length	Grade	Grade	Train Factor	Train Factor	Fuel Efficiency (Eastbound)	Fuel Efficiency (Westbound)
Units	bhp/ton	bhp/ton	ft	ft	mi	Eastbound	Westbound	Eastbound	Westbound	ton-miles/gal	ton-miles/gal
S-BAR6	2.50	2.00	2117	3775	56	-0.006	0.006	-0.126	-0.022	1885.46	737.48

Notes:

1. Provided By BNSF. Fuel Efficiency based on regression model from 2023 train data.

CORRIDOR EMISSION CALCULATIONS

Proposed Project Scenario	
Analysis Year	2048

Description:

Analysis of the train movement Eastbound and Westbound for the Proposed Project Dedicated Fleet.
A composite emission factor is calculated using the MOU reported fleet mix and EPA emission factors.
Corridor parameters are daily averages provided by BNSF.
Eastbound uses in state fuel blend.
Westbound uses out-of-state fuel blend.

Out-of-State =	100%	0% RD Blend/Use		In State =	100%	10% RD Blend/Use
Out-of-State =	0% Renewable			In State =	10% Renewable	

Scenario Daily Emissions Summary

Train Type	Total Peak Daily Corridor Criteria Pollutant Emissions [1]						Total Peak Daily Corridor GHG Emissions [1]			
Pollutant	**PM10**	**PM2.5**	**VOC**	**NOx**	**CO**	**SOx**	**CO_2**	**N_2O**	**CH_4**	**$CO2e^2$**
Non-Affected Trains	0.000	0.000	0.000	0.000	0.000	0.000	0.0	0.0	0.0	0.0
Affected Trains	0.001	0.001	0.003	0.067	0.086	0.000	29.5	0.0	0.0	29.8
Total	0.001	0.001	0.003	0.067	0.086	0.000	29.5	0.0	0.0	29.8

Direction of Travel	Average Moving Non-Affected Trains Daily Corridor Criteria Pollutant Emissions						Non-Affected Trains Daily Corridor GHG Emissions			
Pollutant	**PM10**	**PM2.5**	**VOC**	**NOx**	**CO**	**SOx**	**CO_2**	**N_2O**	**CH_4**	**$CO2e^2$**
Eastbound	0.000	0.000	0.000	0.000	0.000	0.000	0.0	0.0	0.0	0.0
Westbound	0.000	0.000	0.000	0.000	0.000	0.000	0.0	0.0	0.0	0.0
Total	0.000	0.000	0.000	0.000	0.000	0.000	0.0	0.0	0.0	0.0

Direction of Travel	Average Moving Affected Trains Daily Corridor Criteria Pollutant Emissions						Affected Trains Daily Corridor GHG Emissions			
Pollutant	**PM10**	**PM2.5**	**VOC**	**NOx**	**CO**	**SOx**	**CO_2**	**N_2O**	**CH_4**	**$CO2e^2$**
Eastbound	0.000	0.000	0.001	0.016	0.021	0.000	7.0	0.0	0.0	7.0
Westbound	0.001	0.001	0.002	0.042	0.054	0.000	18.8	0.0	0.0	19.0
Total	0.001	0.001	0.003	0.059	0.075	0.000	25.7	0.0	0.0	26.0

Train Type	Average Idling Daily Corridor Criteria Pollutant Emissions						Total Idling Daily Corridor GHG Emissions			
Pollutant	**PM10**	**PM2.5**	**VOC**	**NOx**	**CO**	**SOx**	**CO_2**	**N_2O**	**CH_4**	**$CO2e^2$**
Non-Affected Trains	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.0	0.0	0.0	0.0
Affected Trains	1.22E-05	1.18E-05	3.95E-05	8.20E-04	1.05E-03	3.72E-06	0.4	0.0	0.0	0.4
Total	1.22E-05	1.18E-05	3.95E-05	8.20E-04	1.05E-03	3.72E-06	0.4	0.0	0.0	0.4

Notes:

1. Peak daily emissions based on 13% safety factor on average daily emissions.

2. Global warming potentials for CO2e based on Table A-1 to Subpart A of Part 98, Title 40. https://www.ecfr.gov/current/title-40/part-98/appendix-Table A-1 to Subpart A of Part 98