

Data for tecplot

Transient temperature contours

VARIABLES = X, Y, T/°C"			
ZONE	N= 840 ,E = 1600 ,f=FEPOINT, ET=TRIANGLE		
0.05	0	13.30977482	
5.70E-02	0	13.95942454	
6.47E-02	0	14.58261411	
7.31E-02	0	15.18111975	
0.08241205	0	15.755805	
9.26E-02	0	16.30670512	
0.10388466	0	16.83308214	
0.11625698	0	17.33346935	
0.12986653	0	17.80572498	
0.14483703	0	18.24711682	
0.16130458	0	18.65446147	
0.17941889	0	19.02434207	
0.19934463	0	19.35342339	
0.22126294	0	19.63886992	
0.24537308	0	19.87884777	
0.27189424	0	20.0730563	
0.30106752	0	20.22319881	
0.33315812	0	20.33328812	
0.36845778	0	20.40973733	
0.40728741	0	20.46137988	

0.45	0	20.5
4.94E-02	7.82E-03	13.30870162
0.05637901	8.97E-03	13.96722209
6.41E-02	1.02E-02	14.59768667
7.25E-02	1.16E-02	15.20216426
0.08184635	1.32E-02	15.78169955
9.21E-02	0.014844815	16.33643881
0.10335201	1.67E-02	16.86570931
0.11574336	1.87E-02	17.36807897
0.12937385	2.10E-02	17.84142074
0.1443674	2.34E-02	18.28300632
0.16086029	2.62E-02	18.68965492
0.17900248	2.91E-02	19.05796229
0.19895888	0.03242145	19.38462948
0.22091092	3.60E-02	19.66689675
0.24505817	4.00E-02	19.90306106
0.27162015	4.44E-02	20.09301777
0.30083832	4.92E-02	20.23872658
0.3329783	5.45E-02	20.34448477
0.36833229	6.03E-02	20.41694276
0.40722168	6.67E-02	20.46498427
0.45	7.37E-02	20.5
4.76E-02	1.55E-02	13.30806783
5.46E-02	1.79E-02	13.99619657
6.23E-02	2.06E-02	14.65096912
7.08E-02	2.35E-02	15.2753481

8.02E-02	2.67E-02	15.8709402
0.09045078	3.03E-02	16.43824035
0.10176715	0.034221271	16.97677758
0.11421516	3.85E-02	17.48521905
0.12790797	4.33E-02	17.9614712
0.14297006	4.85E-02	18.40281103
0.15953836	5.42E-02	18.80607793
0.17776349	6.05E-02	19.16795341
0.19781113	6.75E-02	19.48534665
0.21986354	7.51E-02	19.75588409
0.24412119	8.35E-02	19.97846725
0.2708046	9.27E-02	20.15381706
0.30015636	0.10290882	20.28487732
0.33244329	0.114087402	20.37693353
0.36795891	0.126383842	20.43735835
0.4070261	0.139909926	20.47506133
0.45	0.154788619	20.5
4.46E-02	2.27E-02	13.3081197
5.16E-02	2.66E-02	14.04955861
5.94E-02	3.08E-02	14.74740003
6.80E-02	3.55E-02	15.4064523
0.07740396	4.06E-02	16.02946266
8.78E-02	4.63E-02	16.61763266
9.92E-02	0.052508092	17.17090597
0.11171	5.94E-02	17.68816732
0.12550497	6.69E-02	18.16742545

0.14067943	7.52E-02	18.60602881
0.15737134	8.43E-02	19.00095168
0.17573244	9.43E-02	19.34917804
0.19592965	0.105315787	19.64819264
0.21814659	0.117440824	19.89655733
0.24258521	0.130778364	20.09450478
0.2694677	0.145449658	20.24442743
0.29903843	0.161588081	20.35109875
0.33156624	0.179340347	20.42147067
0.36734683	0.19886784	20.46398044
0.40670548	0.220348082	20.48747132
0.45	0.243976348	20.5
4.05E-02	2.94E-02	13.3090321
4.76E-02	3.48E-02	14.12872699
5.55E-02	4.09E-02	14.88803652
6.41E-02	4.75E-02	15.59513362
7.36E-02	5.47E-02	16.25482271
8.41E-02	6.27E-02	16.86957761
9.56E-02	7.15E-02	17.44009897
0.10828957	8.12E-02	17.96570493
0.12222402	9.18E-02	18.4446824
0.13755191	0.103526589	18.87466872
0.15441259	0.116399834	19.25310707
0.17295934	0.130560404	19.57779466
0.19336076	0.146137031	19.84750831
0.21580233	0.163271321	20.06264471

0.24048805	0.182119039	20.22575741
0.26764235	0.202851529	20.34182736
0.29751207	0.225657269	20.41810088
0.33036877	0.250743582	20.46340107
0.36651113	0.278338527	20.48697537
0.40626774	0.308692966	20.49713011
0.45	0.342082849	20.5
3.54E-02	3.54E-02	13.31074378
4.26E-02	4.26E-02	14.23316521
5.06E-02	5.06E-02	15.07001869
5.93E-02	5.93E-02	15.83514482
6.90E-02	6.90E-02	16.53687455
7.96E-02	7.96E-02	17.17978587
9.12E-02	9.12E-02	17.76581318
0.10403809	0.104038095	18.29504466
0.11814591	0.118145911	18.76640168
0.13366451	0.133664508	19.17830706
0.15073497	0.150734965	19.52938912
0.16951247	0.169512468	19.81921446
0.19016772	0.190167721	20.04898635
0.2128885	0.212888499	20.22209137
0.23788136	0.237881356	20.34434226
0.2653735	0.265373497	20.42377445
0.29561485	0.295614853	20.46993224
0.32888034	0.328880345	20.49272773
0.36547239	0.365472386	20.50113267

0.40572363	0.405723631	20.50208696
0.45	0.45	20.5
2.94E-02	4.05E-02	13.31239745
3.48E-02	4.76E-02	14.1329087
4.09E-02	5.55E-02	14.89321389
4.75E-02	6.41E-02	15.60106435
5.47E-02	7.36E-02	16.26124699
0.06272013	8.41E-02	16.87624715
7.15E-02	9.56E-02	17.44674431
8.12E-02	0.108289573	17.97201073
9.18E-02	0.122224019	18.45028787
0.10352659	0.137551911	18.879199
0.11639983	0.154412592	19.25623545
0.1305604	0.17295934	19.57932649
0.14613703	0.193360764	19.84746485
0.16327132	0.21580233	20.06131286
0.18211904	0.240488052	20.22366791
0.20285153	0.267642347	20.33963934
0.22565727	0.297512071	20.41640853
0.25074358	0.330368768	20.46252674
0.27833853	0.366511134	20.48684569
0.30869297	0.406267737	20.4973212
0.34208285	0.45	20.5
2.27E-02	4.46E-02	13.31272111
2.66E-02	5.16E-02	14.05507095
3.08E-02	5.94E-02	14.7540889

3.55E-02	6.80E-02	15.4141662
4.06E-02	0.077403961	16.03795171
4.63E-02	8.78E-02	16.62662063
5.25E-02	9.92E-02	17.18008567
5.94E-02	0.111710002	17.69718197
6.69E-02	0.125504969	18.17586197
7.52E-02	0.140679432	18.61343603
8.43E-02	0.157371342	19.00688986
9.43E-02	0.175732442	19.3532985
0.10531579	0.195929653	19.65033388
0.11744082	0.218146585	19.89682977
0.13077836	0.24258521	20.09332404
0.14544966	0.269467698	20.24245817
0.16158808	0.299038434	20.34909511
0.17934035	0.331566244	20.42004627
0.19886784	0.367346835	20.46338858
0.22034808	0.406705485	20.48749112
0.24397635	0.45	20.5
1.55E-02	4.76E-02	13.31211084
1.79E-02	5.46E-02	14.00092639
2.06E-02	6.23E-02	14.65661
2.35E-02	7.08E-02	15.28184975
2.67E-02	8.02E-02	15.87815086
3.03E-02	9.05E-02	16.44596523
3.42E-02	0.101767151	16.98478882
3.85E-02	0.11421516	17.4932495

0.04327191	0.12790797	17.96920962
4.85E-02	0.142970061	18.40990954
5.42E-02	0.159538361	18.81217877
6.05E-02	0.177763492	19.17273755
6.75E-02	0.197811135	19.48859979
7.51E-02	0.219863542	19.75756593
8.35E-02	0.244121191	19.97875968
9.27E-02	0.270804604	20.15312231
0.10290882	0.300156358	20.28374524
0.1140874	0.332443288	20.37592064
0.12638384	0.367958911	20.43684958
0.13990993	0.407026096	20.47508559
0.15478862	0.45	20.5
7.82E-03	4.94E-02	13.31100955
8.97E-03	5.64E-02	13.96987078
1.02E-02	6.41E-02	14.6008003
1.16E-02	7.25E-02	15.20573798
1.32E-02	8.18E-02	15.78567019
0.01484482	0.092087136	16.3407143
1.67E-02	0.103352005	16.87017685
1.87E-02	0.115743362	17.37260436
2.10E-02	0.129373854	17.84584668
2.34E-02	0.144367396	18.287155
2.62E-02	0.160860291	18.69333884
2.91E-02	0.179002477	19.06100525
3.24E-02	0.19895888	19.38689708

3.60E-02	0.220910924	19.66833107
4.00E-02	0.245058173	19.90370977
4.44E-02	0.271620146	20.09304412
4.92E-02	0.300838317	20.2383886
5.45E-02	0.332978305	20.34408005
0.06027741	0.368332291	20.4167241
6.67E-02	0.407221676	20.46503922
7.37E-02	0.45	20.5
2.33E-15	0.05	13.30977482
2.29E-15	5.70E-02	13.95942454
2.25E-15	6.47E-02	14.58261411
2.20E-15	7.31E-02	15.18111975
2.15E-15	0.082412047	15.755805
2.09E-15	9.26E-02	16.30670512
2.02E-15	0.103884662	16.83308214
1.95E-15	0.116256978	17.33346935
1.87E-15	0.129866526	17.80572498
1.78E-15	0.144837029	18.24711682
1.68E-15	0.161304581	18.65446147
1.58E-15	0.179418889	19.02434207
1.46E-15	0.199344628	19.35342339
1.33E-15	0.221262941	19.63886992
1.19E-15	0.245373085	19.87884777
1.04E-15	0.271894243	20.0730563
8.69E-16	0.301067518	20.22319881
6.82E-16	0.333158119	20.33328812

4.76E-16	0.368457781	20.40973733
2.49E-16	0.407287409	20.46137988
-3.47E-32	0.45	20.5
-7.82E-03	4.94E-02	13.30870162
-8.97E-03	5.64E-02	13.96722209
-1.02E-02	0.064073072	14.59768667
-1.16E-02	7.25E-02	15.20216426
-1.32E-02	8.18E-02	15.78169955
-1.48E-02	9.21E-02	16.33643881
-1.67E-02	0.103352005	16.86570931
-1.87E-02	0.115743362	17.36807897
-2.10E-02	0.129373854	17.84142074
-2.34E-02	0.144367396	18.28300632
-2.62E-02	0.160860291	18.68965492
-2.91E-02	0.179002477	19.05796229
-3.24E-02	0.19895888	19.38462948
-0.0360318	0.220910924	19.66689675
-4.00E-02	0.245058173	19.90306106
-4.44E-02	0.271620146	20.09301777
-4.92E-02	0.300838317	20.23872658
-0.0544629	0.332978305	20.34448477
-6.03E-02	0.368332291	20.41694276
-0.0666733	0.407221676	20.46498427
-7.37E-02	0.45	20.5
-1.55E-02	4.76E-02	13.30806783
-1.79E-02	5.46E-02	13.99619657

-2.06E-02	6.23E-02	14.65096912
-2.35E-02	7.08E-02	15.2753481
-2.67E-02	8.02E-02	15.8709402
-3.03E-02	9.05E-02	16.43824035
-3.42E-02	0.101767151	16.97677758
-3.85E-02	0.11421516	17.48521905
-4.33E-02	0.12790797	17.9614712
-4.85E-02	0.142970061	18.40281103
-5.42E-02	0.159538361	18.80607793
-6.05E-02	0.177763492	19.16795341
-6.75E-02	0.197811135	19.48534665
-7.51E-02	0.219863542	19.75588409
-8.35E-02	0.244121191	19.97846725
-9.27E-02	0.270804604	20.15381706
-0.1029088	0.300156358	20.28487732
-0.1140874	0.332443288	20.37693353
-0.1263838	0.367958911	20.43735835
-0.1399099	0.407026096	20.47506133
-0.1547886	0.45	20.5
-2.27E-02	4.46E-02	13.3081197
-2.66E-02	5.16E-02	14.04955861
-3.08E-02	5.94E-02	14.74740003
-3.55E-02	6.80E-02	15.4064523
-4.06E-02	7.74E-02	16.02946266
-4.63E-02	8.78E-02	16.61763266
-5.25E-02	9.92E-02	17.17090597

-5.94E-02	0.111710002	17.68816732
-6.69E-02	0.125504969	18.16742545
-7.52E-02	0.140679432	18.60602881
-8.43E-02	0.157371342	19.00095168
-0.094293	0.175732442	19.34917804
-0.1053158	0.195929653	19.64819264
-0.1174408	0.218146585	19.89655733
-0.1307784	0.24258521	20.09450478
-0.1454497	0.269467698	20.24442743
-0.1615881	0.299038434	20.35109875
-0.1793403	0.331566244	20.42147067
-0.1988678	0.367346835	20.46398044
-0.2203481	0.406705485	20.48747132
-0.2439763	0.45	20.5
-0.0293893	4.05E-02	13.3090321
-3.48E-02	4.76E-02	14.12872699
-4.09E-02	0.055467056	14.88803652
-4.75E-02	0.064119251	15.59513362
-5.47E-02	7.36E-02	16.25482271
-6.27E-02	8.41E-02	16.86957761
-7.15E-02	9.56E-02	17.44009897
-8.12E-02	0.108289573	17.96570493
-9.18E-02	0.122224019	18.4446824
-0.1035266	0.137551911	18.87466872
-0.1163998	0.154412592	19.25310707
-0.1305604	0.17295934	19.57779466

-0.146137	0.193360764	19.84750831
-0.1632713	0.21580233	20.06264471
-0.182119	0.240488052	20.22575741
-0.2028515	0.267642347	20.34182736
-0.2256573	0.297512071	20.41810088
-0.2507436	0.330368768	20.46340107
-0.2783385	0.366511134	20.48697537
-0.308693	0.406267737	20.49713011
-0.3420828	0.45	20.5
-3.54E-02	3.54E-02	13.31074378
-4.26E-02	4.26E-02	14.23316521
-5.06E-02	5.06E-02	15.07001869
-5.93E-02	5.93E-02	15.83514482
-6.90E-02	6.90E-02	16.53687455
-7.96E-02	7.96E-02	17.17978587
-9.12E-02	9.12E-02	17.76581318
-0.1040381	0.104038095	18.29504466
-0.1181459	0.118145911	18.76640168
-0.1336645	0.133664508	19.17830706
-0.150735	0.150734965	19.52938912
-0.1695125	0.169512468	19.81921446
-0.1901677	0.190167721	20.04898635
-0.2128885	0.212888499	20.22209137
-0.2378814	0.237881356	20.34434226
-0.2653735	0.265373497	20.42377445
-0.2956149	0.295614853	20.46993224

-0.3288803	0.328880345	20.49272773
-0.3654724	0.365472386	20.50113267
-0.4057236	0.405723631	20.50208696
-0.45	0.45	20.5
-4.05E-02	2.94E-02	13.31239745
-4.76E-02	3.48E-02	14.1329087
-5.55E-02	4.09E-02	14.89321389
-6.41E-02	4.75E-02	15.60106435
-7.36E-02	5.47E-02	16.26124699
-8.41E-02	6.27E-02	16.87624715
-0.0956219	7.15E-02	17.44674431
-0.1082896	8.12E-02	17.97201073
-0.122224	9.18E-02	18.45028787
-0.1375519	0.103526589	18.879199
-0.1544126	0.116399834	19.25623545
-0.1729593	0.130560404	19.57932649
-0.1933608	0.146137031	19.84746485
-0.2158023	0.163271321	20.06131286
-0.2404881	0.182119039	20.22366791
-0.2676423	0.202851529	20.33963934
-0.2975121	0.225657269	20.41640853
-0.3303688	0.250743582	20.46252674
-0.3665111	0.278338527	20.48684569
-0.4062677	0.308692966	20.4973212
-0.45	0.342082849	20.5
-4.46E-02	2.27E-02	13.31272111

-5.16E-02	2.66E-02	14.05507095
-5.94E-02	3.08E-02	14.7540889
-6.80E-02	3.55E-02	15.4141662
-0.077404	4.06E-02	16.03795171
-8.78E-02	4.63E-02	16.62662063
-9.92E-02	5.25E-02	17.18008567
-0.11171	5.94E-02	17.69718197
-0.125505	6.69E-02	18.17586197
-0.1406794	0.075162616	18.61343603
-0.1573713	8.43E-02	19.00688986
-0.1757324	9.43E-02	19.3532985
-0.1959297	0.105315787	19.65033388
-0.2181466	0.117440824	19.89682977
-0.2425852	0.130778364	20.09332404
-0.2694677	0.145449658	20.24245817
-0.2990384	0.161588081	20.34909511
-0.3315662	0.179340347	20.42004627
-0.3673468	0.19886784	20.46338858
-0.4067055	0.220348082	20.48749112
-0.45	0.243976348	20.5
-4.76E-02	1.55E-02	13.31211084
-5.46E-02	1.79E-02	14.00092639
-6.23E-02	2.06E-02	14.65661
-7.08E-02	2.35E-02	15.28184975
-8.02E-02	2.67E-02	15.87815086
-9.05E-02	3.03E-02	16.44596523

-0.1017672	3.42E-02	16.98478882
-0.1142152	0.038531099	17.4932495
-0.127908	4.33E-02	17.96920962
-0.1429701	0.0484868	18.40990954
-0.1595384	5.42E-02	18.81217877
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-5.64E-02	8.97E-03	13.96987078
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-8.18E-02	1.32E-02	15.78567019
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-6.47E-02	4.50E-15	14.58261411
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838	19	18
838	839	19
839	20	19

839	840	20
840	21	20

Three-hour cloud chart (a) Scheme 1

VARIABLES = X, Y, T/°C"			
ZONE	N= 840 ,E = 1600 ,f=FEPOINT, ET=TRIANGLE		
	0.05	0	13.30977482
	5.70E-02	0	13.95942454
	6.47E-02	0	14.58261411
	7.31E-02	0	15.18111975
	0.08241205	0	15.755805
	9.26E-02	0	16.30670512
	0.10388466	0	16.83308214
	0.11625698	0	17.33346935
	0.12986653	0	17.80572498
	0.14483703	0	18.24711682
	0.16130458	0	18.65446147
	0.17941889	0	19.02434207
	0.19934463	0	19.35342339
	0.22126294	0	19.63886992
	0.24537308	0	19.87884777
	0.27189424	0	20.0730563
	0.30106752	0	20.22319881
	0.33315812	0	20.33328812
	0.36845778	0	20.40973733

0.40728741	0	20.46137988
0.45	0	20.5
4.94E-02	7.82E-03	13.30870162
0.05637901	8.97E-03	13.96722209
6.41E-02	1.02E-02	14.59768667
7.25E-02	1.16E-02	15.20216426
0.08184635	1.32E-02	15.78169955
9.21E-02	0.014844815	16.33643881
0.10335201	1.67E-02	16.86570931
0.11574336	1.87E-02	17.36807897
0.12937385	2.10E-02	17.84142074
0.1443674	2.34E-02	18.28300632
0.16086029	2.62E-02	18.68965492
0.17900248	2.91E-02	19.05796229
0.19895888	0.03242145	19.38462948
0.22091092	3.60E-02	19.66689675
0.24505817	4.00E-02	19.90306106
0.27162015	4.44E-02	20.09301777
0.30083832	4.92E-02	20.23872658
0.3329783	5.45E-02	20.34448477
0.36833229	6.03E-02	20.41694276
0.40722168	6.67E-02	20.46498427
0.45	7.37E-02	20.5
4.76E-02	1.55E-02	13.30806783
5.46E-02	1.79E-02	13.99619657
6.23E-02	2.06E-02	14.65096912

7.08E-02	2.35E-02	15.2753481
8.02E-02	2.67E-02	15.8709402
0.09045078	3.03E-02	16.43824035
0.10176715	0.034221271	16.97677758
0.11421516	3.85E-02	17.48521905
0.12790797	4.33E-02	17.9614712
0.14297006	4.85E-02	18.40281103
0.15953836	5.42E-02	18.80607793
0.17776349	6.05E-02	19.16795341
0.19781113	6.75E-02	19.48534665
0.21986354	7.51E-02	19.75588409
0.24412119	8.35E-02	19.97846725
0.2708046	9.27E-02	20.15381706
0.30015636	0.10290882	20.28487732
0.33244329	0.114087402	20.37693353
0.36795891	0.126383842	20.43735835
0.4070261	0.139909926	20.47506133
0.45	0.154788619	20.5
4.46E-02	2.27E-02	13.3081197
5.16E-02	2.66E-02	14.04955861
5.94E-02	3.08E-02	14.74740003
6.80E-02	3.55E-02	15.4064523
0.07740396	4.06E-02	16.02946266
8.78E-02	4.63E-02	16.61763266
9.92E-02	0.052508092	17.17090597
0.11171	5.94E-02	17.68816732

0.12550497	6.69E-02	18.16742545
0.14067943	7.52E-02	18.60602881
0.15737134	8.43E-02	19.00095168
0.17573244	9.43E-02	19.34917804
0.19592965	0.105315787	19.64819264
0.21814659	0.117440824	19.89655733
0.24258521	0.130778364	20.09450478
0.2694677	0.145449658	20.24442743
0.29903843	0.161588081	20.35109875
0.33156624	0.179340347	20.42147067
0.36734683	0.19886784	20.46398044
0.40670548	0.220348082	20.48747132
0.45	0.243976348	20.5
4.05E-02	2.94E-02	13.3090321
4.76E-02	3.48E-02	14.12872699
5.55E-02	4.09E-02	14.88803652
6.41E-02	4.75E-02	15.59513362
7.36E-02	5.47E-02	16.25482271
8.41E-02	6.27E-02	16.86957761
9.56E-02	7.15E-02	17.44009897
0.10828957	8.12E-02	17.96570493
0.12222402	9.18E-02	18.4446824
0.13755191	0.103526589	18.87466872
0.15441259	0.116399834	19.25310707
0.17295934	0.130560404	19.57779466
0.19336076	0.146137031	19.84750831

0.21580233	0.163271321	20.06264471
0.24048805	0.182119039	20.22575741
0.26764235	0.202851529	20.34182736
0.29751207	0.225657269	20.41810088
0.33036877	0.250743582	20.46340107
0.36651113	0.278338527	20.48697537
0.40626774	0.308692966	20.49713011
0.45	0.342082849	20.5
3.54E-02	3.54E-02	13.31074378
4.26E-02	4.26E-02	14.23316521
5.06E-02	5.06E-02	15.07001869
5.93E-02	5.93E-02	15.83514482
6.90E-02	6.90E-02	16.53687455
7.96E-02	7.96E-02	17.17978587
9.12E-02	9.12E-02	17.76581318
0.10403809	0.104038095	18.29504466
0.11814591	0.118145911	18.76640168
0.13366451	0.133664508	19.17830706
0.15073497	0.150734965	19.52938912
0.16951247	0.169512468	19.81921446
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0.23788136	0.237881356	20.34434226
0.2653735	0.265373497	20.42377445
0.29561485	0.295614853	20.46993224
0.32888034	0.328880345	20.49272773

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2.94E-02	4.05E-02	13.31239745
3.48E-02	4.76E-02	14.1329087
4.09E-02	5.55E-02	14.89321389
4.75E-02	6.41E-02	15.60106435
5.47E-02	7.36E-02	16.26124699
0.06272013	8.41E-02	16.87624715
7.15E-02	9.56E-02	17.44674431
8.12E-02	0.108289573	17.97201073
9.18E-02	0.122224019	18.45028787
0.10352659	0.137551911	18.879199
0.11639983	0.154412592	19.25623545
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0.16327132	0.21580233	20.06131286
0.18211904	0.240488052	20.22366791
0.20285153	0.267642347	20.33963934
0.22565727	0.297512071	20.41640853
0.25074358	0.330368768	20.46252674
0.27833853	0.366511134	20.48684569
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2.66E-02	5.16E-02	14.05507095

3.08E-02	5.94E-02	14.7540889
3.55E-02	6.80E-02	15.4141662
4.06E-02	0.077403961	16.03795171
4.63E-02	8.78E-02	16.62662063
5.25E-02	9.92E-02	17.18008567
5.94E-02	0.111710002	17.69718197
6.69E-02	0.125504969	18.17586197
7.52E-02	0.140679432	18.61343603
8.43E-02	0.157371342	19.00688986
9.43E-02	0.175732442	19.3532985
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0.17934035	0.331566244	20.42004627
0.19886784	0.367346835	20.46338858
0.22034808	0.406705485	20.48749112
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1.55E-02	4.76E-02	13.31211084
1.79E-02	5.46E-02	14.00092639
2.06E-02	6.23E-02	14.65661
2.35E-02	7.08E-02	15.28184975
2.67E-02	8.02E-02	15.87815086
3.03E-02	9.05E-02	16.44596523
3.42E-02	0.101767151	16.98478882

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4.85E-02	0.142970061	18.40990954
5.42E-02	0.159538361	18.81217877
6.05E-02	0.177763492	19.17273755
6.75E-02	0.197811135	19.48859979
7.51E-02	0.219863542	19.75756593
8.35E-02	0.244121191	19.97875968
9.27E-02	0.270804604	20.15312231
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0.12638384	0.367958911	20.43684958
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7.82E-03	4.94E-02	13.31100955
8.97E-03	5.64E-02	13.96987078
1.02E-02	6.41E-02	14.6008003
1.16E-02	7.25E-02	15.20573798
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2.62E-02	0.160860291	18.69333884
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7.37E-02	0.45	20.5
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2.20E-15	7.31E-02	15.18111975
2.15E-15	0.082412047	15.755805
2.09E-15	9.26E-02	16.30670512
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1.95E-15	0.116256978	17.33346935
1.87E-15	0.129866526	17.80572498
1.78E-15	0.144837029	18.24711682
1.68E-15	0.161304581	18.65446147
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1.33E-15	0.221262941	19.63886992
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8.69E-16	0.301067518	20.22319881

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4.76E-16	0.368457781	20.40973733
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-1.32E-02	8.18E-02	15.78169955
-1.48E-02	9.21E-02	16.33643881
-1.67E-02	0.103352005	16.86570931
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-2.10E-02	0.129373854	17.84142074
-2.34E-02	0.144367396	18.28300632
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-4.33E-02	0.12790797	17.9614712
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-0.1307784	0.24258521	20.09450478
-0.1454497	0.269467698	20.24442743
-0.1615881	0.299038434	20.35109875
-0.1793403	0.331566244	20.42147067
-0.1988678	0.367346835	20.46398044
-0.2203481	0.406705485	20.48747132
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-3.48E-02	4.76E-02	14.12872699
-4.09E-02	0.055467056	14.88803652
-4.75E-02	0.064119251	15.59513362
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-6.27E-02	8.41E-02	16.86957761
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-9.18E-02	0.122224019	18.4446824
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-7.96E-02	7.96E-02	17.17978587
-9.12E-02	9.12E-02	17.76581318
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-0.1901677	0.190167721	20.04898635
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-0.2378814	0.237881356	20.34434226
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-5.55E-02	4.09E-02	14.89321389
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-7.36E-02	5.47E-02	16.26124699
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-0.1082896	8.12E-02	17.97201073
-0.122224	9.18E-02	18.45028787
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-0.1729593	0.130560404	19.57932649
-0.1933608	0.146137031	19.84746485
-0.2158023	0.163271321	20.06131286
-0.2404881	0.182119039	20.22366791
-0.2676423	0.202851529	20.33963934
-0.2975121	0.225657269	20.41640853
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-0.3665111	0.278338527	20.48684569
-0.4062677	0.308692966	20.4973212
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-9.92E-02	5.25E-02	17.18008567
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-8.02E-02	2.67E-02	15.87815086

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-0.1978111	6.75E-02	19.48859979
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-0.2441212	8.35E-02	19.97875968
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-8.18E-02	1.32E-02	15.78567019
-9.21E-02	1.48E-02	16.3407143
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-6.47E-02	4.50E-15	14.58261411
-7.31E-02	4.40E-15	15.18111975
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-9.26E-02	4.17E-15	16.30670512
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-0.2453731	2.39E-15	19.87884777

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711	712	732
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716	737	736
716	717	737

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726	727	747
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728	729	749
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729	730	750

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744	745	765
745	766	765
745	746	766
746	767	766
746	747	767
747	768	767
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749	750	770
750	771	770
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762	763	783
763	784	783
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782	803	802
782	783	803
783	804	803
783	784	804
784	805	804
784	785	805

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785	786	806
786	807	806
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787	808	807
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788	809	808
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789	790	810
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794	795	815
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797	818	817
797	798	818

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801	802	822
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802	803	823
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808	809	829
809	830	829
809	810	830
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810	811	831
811	832	831
811	812	832

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816	837	836
816	817	837
817	838	837
817	818	838
818	839	838
818	819	839
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820	821	1
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822	3	2
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823	4	3
823	824	4
824	5	4
824	825	5
825	6	5
825	826	6

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827	8	7
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828	9	8
828	829	9
829	10	9
829	830	10
830	11	10
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833	14	13
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835	16	15
835	836	16
836	17	16
836	837	17
837	18	17
837	838	18
838	19	18
838	839	19

839	20	19
839	840	20
840	21	20

(b) Scheme 2

VARIABLES = X, Y, T "			
ZONE	N= 840 ,E = 1600	,f=FEPOINT, ET=TRIANGLE	
	0.05	0	9.3047055
	5.70E-02	0	10.421901
	6.47E-02	0	11.494063
	7.31E-02	0	12.523068
	0.082412047	0	13.508888
	9.26E-02	0	14.449692
	0.103884662	0	15.341927
	0.116256978	0	16.180455
	0.129866526	0	16.958791
	0.144837029	0	17.669519
	0.161304581	0	18.304946
	0.179418889	0	18.858041
	0.199344628	0	19.3236
	0.221262941	0	19.699527
	0.245373085	0	19.987961
	0.271894243	0	20.195886
	0.301067518	0	20.334878
	0.333158119	0	20.419844

0.368457781	0	20.46705
0.407287409	0	20.492443
0.45	0	20.5
4.94E-02	7.82E-03	9.3031863
0.056379015	8.97E-03	10.435441
6.41E-02	1.02E-02	11.519972
7.25E-02	1.16E-02	12.559092
0.081846345	1.32E-02	13.553023
9.21E-02	0.014844815	14.500064
0.103352005	1.67E-02	15.396718
0.115743362	1.87E-02	16.237851
0.129373854	2.10E-02	17.016958
0.144367396	2.34E-02	17.726604
0.160860291	2.62E-02	18.359119
0.179002477	2.91E-02	18.907564
0.19895888	0.03242145	19.366954
0.220910924	3.60E-02	19.735578
0.245058173	4.00E-02	20.016128
0.271620146	4.44E-02	20.216275
0.300838317	4.92E-02	20.348302
0.332978305	5.45E-02	20.42766
0.368332291	6.03E-02	20.470814
0.407221676	6.67E-02	20.493397
0.45	7.37E-02	20.5
4.76E-02	1.55E-02	9.3021977
5.46E-02	1.79E-02	10.485237

6.23E-02	2.06E-02	11.611458
7.08E-02	2.35E-02	12.684514
8.02E-02	2.67E-02	13.705392
0.090450779	3.03E-02	14.672772
0.101767151	0.034221271	15.583286
0.11421516	3.85E-02	16.431776
0.12790797	4.33E-02	17.211657
0.142970061	4.85E-02	17.915493
0.159538361	5.42E-02	18.535827
0.177763492	6.05E-02	19.066312
0.197811135	6.75E-02	19.503068
0.219863542	7.51E-02	19.846055
0.244121191	8.35E-02	20.100128
0.270804604	9.27E-02	20.275327
0.300156358	0.10290882	20.386048
0.332443288	0.114087402	20.449077
0.367958911	0.126383842	20.481
0.407026096	0.139909926	20.496067
0.45	0.154788619	20.5
4.46E-02	2.27E-02	9.3020971
5.16E-02	2.66E-02	10.576791
5.94E-02	3.08E-02	11.776986
6.80E-02	3.55E-02	12.909142
0.077403961	4.06E-02	13.975815
8.78E-02	4.63E-02	14.976488
9.92E-02	0.052508092	15.908107

0.111710002	5.94E-02	16.765565
0.125504969	6.69E-02	17.542305
0.140679432	7.52E-02	18.231157
0.157371342	8.43E-02	18.825466
0.175732442	9.43E-02	19.320492
0.195929653	0.105315787	19.714934
0.218146585	0.117440824	20.012275
0.24258521	0.130778364	20.22148
0.269467698	0.145449658	20.356608
0.299038434	0.161588081	20.43511
0.331566244	0.179340347	20.475103
0.367346835	0.19886784	20.492463
0.406705485	0.220348082	20.498825
0.45	0.243976348	20.5
4.05E-02	2.94E-02	9.3032073
4.76E-02	3.48E-02	10.712623
5.55E-02	4.09E-02	12.018406
6.41E-02	4.75E-02	13.232207
7.36E-02	5.47E-02	14.359478
8.41E-02	6.27E-02	15.401249
9.56E-02	7.15E-02	16.355207
0.108289573	8.12E-02	17.216655
0.122224019	9.18E-02	17.979573
0.137551911	0.103526589	18.637931
0.154412592	0.116399834	19.187252
0.17295934	0.130560404	19.626299

0.193360764	0.146137031	19.958608
0.21580233	0.163271321	20.19341
0.240488052	0.182119039	20.345456
0.267642347	0.202851529	20.433468
0.297512071	0.225657269	20.477373
0.330368768	0.250743582	20.495107
0.366511134	0.278338527	20.500107
0.406267737	0.308692966	20.500364
0.45	0.342082849	20.5
3.54E-02	3.54E-02	9.3055989
4.26E-02	4.26E-02	10.891988
5.06E-02	5.06E-02	12.330851
5.93E-02	5.93E-02	13.642673
6.90E-02	6.90E-02	14.837997
7.96E-02	7.96E-02	15.920586
9.12E-02	9.12E-02	16.889659
0.104038095	0.104038095	17.741787
0.118145911	0.118145911	18.472782
0.133664508	0.133664508	19.079681
0.150734965	0.150734965	19.56271
0.169512468	0.169512468	19.926961
0.190167721	0.190167721	20.183333
0.212888499	0.212888499	20.348336
0.237881356	0.237881356	20.4425
0.265373497	0.265373497	20.487624
0.295614853	0.295614853	20.50355

0.328880345	0.328880345	20.505537
0.365472386	0.365472386	20.503106
0.405723631	0.405723631	20.500644
0.45	0.45	20.5
2.94E-02	4.05E-02	9.3081349
3.48E-02	4.76E-02	10.719626
4.09E-02	5.55E-02	12.027549
4.75E-02	6.41E-02	13.242921
5.47E-02	7.36E-02	14.37113
0.062720133	8.41E-02	15.413146
7.15E-02	9.56E-02	16.36654
8.12E-02	0.108289573	17.226513
9.18E-02	0.122224019	17.987056
0.103526589	0.137551911	18.642347
0.116399834	0.154412592	19.188353
0.130560404	0.17295934	19.62447
0.146137031	0.193360764	19.954878
0.163271321	0.21580233	20.189218
0.182119039	0.240488052	20.342195
0.202851529	0.267642347	20.43198
0.225657269	0.297512071	20.477659
0.250743582	0.330368768	20.496434
0.278338527	0.366511134	20.501455
0.308692966	0.406267737	20.500918
0.342082849	0.45	20.5
2.27E-02	4.46E-02	9.3086688

2.66E-02	5.16E-02	10.585822
3.08E-02	5.94E-02	11.788624
3.55E-02	6.80E-02	12.922293
4.06E-02	0.077403961	13.991114
4.63E-02	8.78E-02	14.992548
5.25E-02	9.92E-02	15.92404
5.94E-02	0.111710002	16.780343
6.69E-02	0.125504969	17.554842
7.52E-02	0.140679432	18.240472
8.43E-02	0.157371342	18.830924
9.43E-02	0.175732442	19.322046
0.105315787	0.195929653	19.713268
0.117440824	0.218146585	20.008716
0.130778364	0.24258521	20.217651
0.145449658	0.269467698	20.35389
0.161588081	0.299038434	20.434155
0.179340347	0.331566244	20.475667
0.19886784	0.367346835	20.493644
0.220348082	0.406705485	20.499484
0.243976348	0.45	20.5
1.55E-02	4.76E-02	9.3078709
1.79E-02	5.46E-02	10.492846
2.06E-02	6.23E-02	11.621145
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2.67E-02	8.02E-02	13.718313
3.03E-02	9.05E-02	14.686565

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0.043271909	0.12790797	17.223768
4.85E-02	0.142970061	17.925421
5.42E-02	0.159538361	18.542933
6.05E-02	0.177763492	19.07031
6.75E-02	0.197811135	19.504165
7.51E-02	0.219863542	19.844979
8.35E-02	0.244121191	20.097973
9.27E-02	0.270804604	20.27323
0.10290882	0.300156358	20.384813
0.114087402	0.332443288	20.448925
0.126383842	0.367958911	20.481573
0.139909926	0.407026096	20.496536
0.154788619	0.45	20.5
7.82E-03	4.94E-02	9.306391
8.97E-03	5.64E-02	10.439651
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1.16E-02	7.25E-02	12.565385
1.32E-02	8.18E-02	13.560115
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1.87E-02	0.115743362	16.245541
2.10E-02	0.129373854	17.024063
2.34E-02	0.144367396	17.732695
2.62E-02	0.160860291	18.36383

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3.60E-02	0.220910924	19.73578
4.00E-02	0.245058173	20.015492
4.44E-02	0.271620146	20.21537
4.92E-02	0.300838317	20.347607
5.45E-02	0.332978305	20.427419
0.060277407	0.368332291	20.470991
6.67E-02	0.407221676	20.493641
7.37E-02	0.45	20.5
2.33E-15	0.05	9.3047055
2.29E-15	5.70E-02	10.421901
2.25E-15	6.47E-02	11.494063
2.20E-15	7.31E-02	12.523068
2.15E-15	0.082412047	13.508888
2.09E-15	9.26E-02	14.449692
2.02E-15	0.103884662	15.341927
1.95E-15	0.116256978	16.180455
1.87E-15	0.129866526	16.958791
1.78E-15	0.144837029	17.669519
1.68E-15	0.161304581	18.304946
1.58E-15	0.179418889	18.858041
1.46E-15	0.199344628	19.3236
1.33E-15	0.221262941	19.699527
1.19E-15	0.245373085	19.987961
1.04E-15	0.271894243	20.195886

8.69E-16	0.301067518	20.334878
6.82E-16	0.333158119	20.419844
4.76E-16	0.368457781	20.46705
2.49E-16	0.407287409	20.492443
-3.47E-32	0.45	20.5
-7.82E-03	4.94E-02	9.3031863
-8.97E-03	5.64E-02	10.435441
-1.02E-02	0.064073072	11.519972
-1.16E-02	7.25E-02	12.559092
-1.32E-02	8.18E-02	13.553023
-1.48E-02	9.21E-02	14.500064
-1.67E-02	0.103352005	15.396718
-1.87E-02	0.115743362	16.237851
-2.10E-02	0.129373854	17.016958
-2.34E-02	0.144367396	17.726604
-2.62E-02	0.160860291	18.359119
-2.91E-02	0.179002477	18.907564
-3.24E-02	0.19895888	19.366954
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-4.00E-02	0.245058173	20.016128
-4.44E-02	0.271620146	20.216275
-4.92E-02	0.300838317	20.348302
-0.05446292	0.332978305	20.42766
-6.03E-02	0.368332291	20.470814
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-7.37E-02	0.45	20.5

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-3.03E-02	9.05E-02	14.672772
-3.42E-02	0.101767151	15.583286
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-4.33E-02	0.12790797	17.211657
-4.85E-02	0.142970061	17.915493
-5.42E-02	0.159538361	18.535827
-6.05E-02	0.177763492	19.066312
-6.75E-02	0.197811135	19.503068
-7.51E-02	0.219863542	19.846055
-8.35E-02	0.244121191	20.100128
-9.27E-02	0.270804604	20.275327
-0.10290882	0.300156358	20.386048
-0.1140874	0.332443288	20.449077
-0.12638384	0.367958911	20.481
-0.13990993	0.407026096	20.496067
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-4.06E-02	7.74E-02	13.975815

-4.63E-02	8.78E-02	14.976488
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-6.69E-02	0.125504969	17.542305
-7.52E-02	0.140679432	18.231157
-8.43E-02	0.157371342	18.825466
-0.09429303	0.175732442	19.320492
-0.10531579	0.195929653	19.714934
-0.11744082	0.218146585	20.012275
-0.13077836	0.24258521	20.22148
-0.14544966	0.269467698	20.356608
-0.16158808	0.299038434	20.43511
-0.17934035	0.331566244	20.475103
-0.19886784	0.367346835	20.492463
-0.22034808	0.406705485	20.498825
-0.24397635	0.45	20.5
-0.02938926	4.05E-02	9.3032073
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-4.09E-02	0.055467056	12.018406
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-5.47E-02	7.36E-02	14.359478
-6.27E-02	8.41E-02	15.401249
-7.15E-02	9.56E-02	16.355207
-8.12E-02	0.108289573	17.216655
-9.18E-02	0.122224019	17.979573
-0.10352659	0.137551911	18.637931

-0.11639983	0.154412592	19.187252
-0.1305604	0.17295934	19.626299
-0.14613703	0.193360764	19.958608
-0.16327132	0.21580233	20.19341
-0.18211904	0.240488052	20.345456
-0.20285153	0.267642347	20.433468
-0.22565727	0.297512071	20.477373
-0.25074358	0.330368768	20.495107
-0.27833853	0.366511134	20.500107
-0.30869297	0.406267737	20.500364
-0.34208285	0.45	20.5
-3.54E-02	3.54E-02	9.3055989
-4.26E-02	4.26E-02	10.891988
-5.06E-02	5.06E-02	12.330851
-5.93E-02	5.93E-02	13.642673
-6.90E-02	6.90E-02	14.837997
-7.96E-02	7.96E-02	15.920586
-9.12E-02	9.12E-02	16.889659
-0.10403809	0.104038095	17.741787
-0.11814591	0.118145911	18.472782
-0.13366451	0.133664508	19.079681
-0.15073497	0.150734965	19.56271
-0.16951247	0.169512468	19.926961
-0.19016772	0.190167721	20.183333
-0.2128885	0.212888499	20.348336
-0.23788136	0.237881356	20.4425

-0.2653735	0.265373497	20.487624
-0.29561485	0.295614853	20.50355
-0.32888034	0.328880345	20.505537
-0.36547239	0.365472386	20.503106
-0.40572363	0.405723631	20.500644
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-4.76E-02	3.48E-02	10.719626
-5.55E-02	4.09E-02	12.027549
-6.41E-02	4.75E-02	13.242921
-7.36E-02	5.47E-02	14.37113
-8.41E-02	6.27E-02	15.413146
-0.09562189	7.15E-02	16.36654
-0.10828957	8.12E-02	17.226513
-0.12222402	9.18E-02	17.987056
-0.13755191	0.103526589	18.642347
-0.15441259	0.116399834	19.188353
-0.17295934	0.130560404	19.62447
-0.19336076	0.146137031	19.954878
-0.21580233	0.163271321	20.189218
-0.24048805	0.182119039	20.342195
-0.26764235	0.202851529	20.43198
-0.29751207	0.225657269	20.477659
-0.33036877	0.250743582	20.496434
-0.36651113	0.278338527	20.501455
-0.40626774	0.308692966	20.500918

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-6.80E-02	3.55E-02	12.92293
-0.07740396	4.06E-02	13.991114
-8.78E-02	4.63E-02	14.992548
-9.92E-02	5.25E-02	15.92404
-0.11171	5.94E-02	16.780343
-0.12550497	6.69E-02	17.554842
-0.14067943	0.075162616	18.240472
-0.15737134	8.43E-02	18.830924
-0.17573244	9.43E-02	19.322046
-0.19592965	0.105315787	19.713268
-0.21814659	0.117440824	20.008716
-0.24258521	0.130778364	20.217651
-0.2694677	0.145449658	20.35389
-0.29903843	0.161588081	20.434155
-0.33156624	0.179340347	20.475667
-0.36734683	0.19886784	20.493644
-0.40670548	0.220348082	20.499484
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-5.46E-02	1.79E-02	10.492846
-6.23E-02	2.06E-02	11.621145
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-8.02E-02	2.67E-02	13.718313
-9.05E-02	3.03E-02	14.686565
-0.10176715	3.42E-02	15.597304
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-0.12790797	4.33E-02	17.223768
-0.14297006	0.0484868	17.925421
-0.15953836	5.42E-02	18.542933
-0.17776349	6.05E-02	19.07031
-0.19781113	6.75E-02	19.504165
-0.21986354	7.51E-02	19.844979
-0.24412119	8.35E-02	20.097973
-0.2708046	9.27E-02	20.27323
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-0.33244329	0.114087402	20.448925
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-8.18E-02	1.32E-02	13.560115
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-0.11574336	1.87E-02	16.245541
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-0.16086029	2.62E-02	18.36383
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-0.22091092	3.60E-02	19.73578
-0.24505817	4.00E-02	20.015492
-0.27162015	4.44E-02	20.21537
-0.30083832	4.92E-02	20.347607
-0.3329783	0.054462922	20.427419
-0.36833229	6.03E-02	20.470991
-0.40722168	6.67E-02	20.493641
-0.45	7.37E-02	20.5
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-5.70E-02	4.59E-15	10.421901
-6.47E-02	4.50E-15	11.494063
-7.31E-02	4.40E-15	12.523068
-0.08241205	4.29E-15	13.508888
-9.26E-02	4.17E-15	14.449692
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-0.11625698	3.90E-15	16.180455
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-0.14483703	3.56E-15	17.669519
-0.16130458	3.37E-15	18.304946
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-8.18E-02	-1.32E-02	13.553023
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-0.22091092	-3.60E-02	19.735578
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-7.96E-02	-7.96E-02	15.920586
-9.12E-02	-9.12E-02	16.889659
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(c) Scheme 3

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566	567	587
567	588	587

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594	615	614
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595	616	615

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605	626	625
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606	627	626
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607	628	627
607	608	628
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611	632	631
611	612	632
612	633	632
612	613	633
613	634	633
613	614	634
614	635	634
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616	637	636
616	617	637
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617	618	638
618	639	638
618	619	639
619	640	639
619	620	640
620	641	640
620	621	641
621	642	641
621	622	642
622	643	642

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623	624	644
624	645	644
624	625	645
625	646	645
625	626	646
626	647	646
626	627	647
627	648	647
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633	654	653
633	634	654
634	655	654
634	635	655
635	656	655
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636	657	656

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645	646	666
646	667	666
646	647	667
647	668	667
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648	669	668
648	649	669
649	670	669

649	650	670
650	671	670
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651	672	671
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653	674	673
653	654	674
654	675	674
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659	680	679
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661	682	681
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662	683	682
662	663	683
663	684	683

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671	692	691
671	672	692
672	693	692
673	674	694
674	695	694
674	675	695
675	696	695
675	676	696
676	697	696
676	677	697
677	698	697

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681	682	702
682	703	702
682	683	703
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685	686	706
686	707	706
686	687	707
687	708	707
687	688	708
688	709	708
688	689	709
689	710	709
689	690	710
690	711	710

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691	712	711
691	692	712
692	713	712
692	693	713
693	714	713
694	695	715
695	716	715
695	696	716
696	717	716
696	697	717
697	718	717
697	698	718
698	719	718
698	699	719
699	720	719
699	700	720
700	721	720
700	701	721
701	722	721
701	702	722
702	723	722
702	703	723
703	724	723
703	704	724
704	725	724

704	705	725
705	726	725
705	706	726
706	727	726
706	707	727
707	728	727
707	708	728
708	729	728
708	709	729
709	730	729
709	710	730
710	731	730
710	711	731
711	732	731
711	712	732
712	733	732
712	713	733
713	734	733
713	714	734
714	735	734
715	716	736
716	737	736
716	717	737
717	738	737
717	718	738
718	739	738

718	719	739
719	740	739
719	720	740
720	741	740
720	721	741
721	742	741
721	722	742
722	743	742
722	723	743
723	744	743
723	724	744
724	745	744
724	725	745
725	746	745
725	726	746
726	747	746
726	727	747
727	748	747
727	728	748
728	749	748
728	729	749
729	750	749
729	730	750
730	751	750
730	731	751
731	752	751

731	732	752
732	753	752
732	733	753
733	754	753
733	734	754
734	755	754
734	735	755
735	756	755
736	737	757
737	758	757
737	738	758
738	759	758
738	739	759
739	760	759
739	740	760
740	761	760
740	741	761
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741	742	762
742	763	762
742	743	763
743	764	763
743	744	764
744	765	764
744	745	765
745	766	765

745	746	766
746	767	766
746	747	767
747	768	767
747	748	768
748	769	768
748	749	769
749	770	769
749	750	770
750	771	770
750	751	771
751	772	771
751	752	772
752	773	772
752	753	773
753	774	773
753	754	774
754	775	774
754	755	775
755	776	775
755	756	776
756	777	776
757	758	778
758	779	778
758	759	779
759	780	779

759	760	780
760	781	780
760	761	781
761	782	781
761	762	782
762	783	782
762	763	783
763	784	783
763	764	784
764	785	784
764	765	785
765	786	785
765	766	786
766	787	786
766	767	787
767	788	787
767	768	788
768	789	788
768	769	789
769	790	789
769	770	790
770	791	790
770	771	791
771	792	791
771	772	792
772	793	792

772	773	793
773	794	793
773	774	794
774	795	794
774	775	795
775	796	795
775	776	796
776	797	796
776	777	797
777	798	797
778	779	799
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779	780	800
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780	781	801
781	802	801
781	782	802
782	803	802
782	783	803
783	804	803
783	784	804
784	805	804
784	785	805
785	806	805
785	786	806
786	807	806

786	787	807
787	808	807
787	788	808
788	809	808
788	789	809
789	810	809
789	790	810
790	811	810
790	791	811
791	812	811
791	792	812
792	813	812
792	793	813
793	814	813
793	794	814
794	815	814
794	795	815
795	816	815
795	796	816
796	817	816
796	797	817
797	818	817
797	798	818
798	819	818
799	800	820
800	821	820

800	801	821
801	822	821
801	802	822
802	823	822
802	803	823
803	824	823
803	804	824
804	825	824
804	805	825
805	826	825
805	806	826
806	827	826
806	807	827
807	828	827
807	808	828
808	829	828
808	809	829
809	830	829
809	810	830
810	831	830
810	811	831
811	832	831
811	812	832
812	833	832
812	813	833
813	834	833

813	814	834
814	835	834
814	815	835
815	836	835
815	816	836
816	837	836
816	817	837
817	838	837
817	818	838
818	839	838
818	819	839
819	840	839
820	821	1
821	2	1
821	822	2
822	3	2
822	823	3
823	4	3
823	824	4
824	5	4
824	825	5
825	6	5
825	826	6
826	7	6
826	827	7
827	8	7

827	828	8
828	9	8
828	829	9
829	10	9
829	830	10
830	11	10
830	831	11
831	12	11
831	832	12
832	13	12
832	833	13
833	14	13
833	834	14
834	15	14
834	835	15
835	16	15
835	836	16
836	17	16
836	837	17
837	18	17
837	838	18
838	19	18
838	839	19
839	20	19
839	840	20
840	21	20

Experimental data

Internal temperature field of surrounding rocks

(a)

Distance (m)	Scheme 1	Scheme 2	Scheme 3
0	17.43665	14.16832	10.07793
0.025	19.65992	19.29130	19.43087
0.05	20.41999	20.46392	20.49664
0.075	20.49310	20.49971	20.49567
0.1	20.47972	20.41523	20.46467
0.125	20.46461	20.41656	20.43034
0.15	20.46461	20.43853	20.52633
0.175	20.47561	20.37952	20.41105
0.2	20.45635	20.32041	20.34787
0.225	20.46184	20.37812	20.31225
0.25	20.45775	20.33690	20.34653
0.275	20.46324	20.30537	20.32596
0.3	20.47694	20.34381	20.37681

(b)

Distance (m)	Scheme 1	Scheme 2	Scheme 3
0	15.46824	11.44898	7.94725
0.025	17.70168	15.97912	15.21722
0.05	19.30528	18.98061	19.35507
0.075	20.40023	20.37179	20.40421
0.1	19.96800	19.99634	20.28615
0.125	20.32393	20.39715	20.48085
0.15	20.46143	20.48994	20.49559
0.175	20.48473	20.49778	20.49570
0.2	20.49407	20.49949	20.48880
0.225	20.49708	20.49972	20.47542
0.25	20.49782	20.49637	20.46031
0.275	20.49794	20.49539	20.46031
0.3	20.49636	20.46440	20.47131

(c)

Distance (m)	Scheme 1	Scheme 2	Scheme 3
0	14.59220	10.49165	7.36199
0.025	16.70282	14.49384	13.44419
0.05	18.40973	17.61954	17.85874
0.075	19.27650	19.06425	19.52907
0.1	19.61701	19.57338	19.99495
0.125	19.89333	19.94627	20.26952
0.15	20.26256	20.35354	20.46928
0.175	20.36792	20.43798	20.48960

0.2	20.43322	20.47777	20.49476
0.225	20.46953	20.49344	20.49563
0.25	20.48726	20.49966	20.49434
0.275	20.49462	20.49837	20.49551
0.3	20.49714	20.49972	20.49569

(d)

Distance (m)	Scheme 1	Scheme 2	Scheme 3
0	13.30844	9.30459	6.71845
0.025	15.17960	12.52291	11.27066
0.05	16.83140	15.34173	15.17228
0.075	17.80394	16.95857	17.27420
0.1	18.24530	17.66929	18.13241
0.125	19.02244	18.85779	19.41266
0.15	19.35148	19.32335	19.83453
0.175	19.63691	19.69927	20.12625
0.2	19.87686	19.98770	20.31026
0.225	20.07105	20.19563	20.41401
0.25	20.22118	20.33462	20.46504
0.275	20.33126	20.41957	20.48628
0.3	20.40770	20.46678	20.49349

Variation law of temperature gradient

Distance (m)	Scheme 1	Scheme 2	Scheme 3
0.025	66.82348	114.57976	160.68794

0.05	46.78117	79.15213	107.37681
0.075	34.46747	56.69870	72.07029
0.1	25.94254	40.85235	47.09834
0.125	19.74062	29.32162	29.73800
0.15	14.83761	20.42208	17.60362
0.175	11.01432	13.78773	9.70205
0.2	8.25865	9.32886	5.29334
0.225	6.09889	6.11105	2.69620
0.25	4.32478	3.75116	1.22861
0.275	3.04086	2.25145	0.53085

Comparison of the variation laws for wall temperature

Time (h)	Scheme 1	Scheme 2	Scheme 3
0	20.38982	20.37323	20.51520
0.06667	17.78347	14.80992	10.90191
0.13333	17.04454	13.60213	9.73251
0.2	16.55206	12.87436	9.12323
0.26667	16.21989	12.41576	8.77079
0.33333	15.94240	12.05111	8.50592
0.4	15.72399	11.77569	8.31441
0.46667	15.50420	11.50804	8.13466
0.53333	15.34676	11.32226	8.01357
0.6	15.18924	11.14092	7.89792
0.66667	15.06337	10.99934	7.80945

0.73333	14.90645	10.82687	7.70376
0.8	14.81259	10.72562	7.64263
0.86667	14.71906	10.62640	7.58352
0.93333	14.62590	10.52906	7.52621
1	14.50221	10.40165	7.45197
1.06667	14.47146	10.37049	7.43403
1.13333	14.37942	10.27779	7.38092
1.2	14.28798	10.18714	7.32956
1.26667	14.22732	10.12767	7.29612
1.33333	14.16692	10.06900	7.26335
1.4	14.10680	10.01115	7.23124
1.46667	14.04699	9.95411	7.19979
1.53333	13.98747	9.89787	7.16894
1.6	13.95778	9.86996	7.15369
1.66667	13.89874	9.81492	7.12378
1.73333	13.86938	9.78780	7.10913
1.8	13.81084	9.73396	7.08012
1.86667	13.75264	9.68090	7.05170
1.93333	13.72363	9.65456	7.03763
2	13.66596	9.60267	7.01006
2.06667	13.63732	9.57711	6.99654
2.13333	13.60867	9.55155	6.98303
2.2	13.58020	9.52636	6.96980
2.26667	13.52348	9.47638	6.94358
2.33333	13.52348	9.47638	6.94358
2.4	13.46712	9.42715	6.91789

2.46667	13.43905	9.40272	6.90518
2.53333	13.41117	9.37865	6.89272
2.6	13.38329	9.35459	6.88025
2.66667	13.35561	9.33090	6.86805
2.73333	13.32794	9.30721	6.85583

Numerical results

Internal temperature field of surrounding rocks

(a)

Distance (m)	Scheme 1	Scheme 2	Scheme 3
0	17.43839	14.1685	10.08005
0.00698	18.35171	16.37905	14.40514
0.01467	19.0961	18.09989	17.57378
0.02312	19.66189	19.29155	19.43495
0.03241	20.054	19.99786	20.24284
0.04264	20.29504	20.33888	20.4703
0.05388	20.42203	20.46419	20.50095
0.06626	20.47688	20.49567	20.50031
0.07987	20.49515	20.49998	20.49997
0.09484	20.49941	20.50004	20.5
0.1113	20.49999	20.5	20.5
0.12942	20.50001	20.5	20.5
0.14934	20.5	20.5	20.5
0.17126	20.5	20.5	20.5

0.19537	20.5	20.5	20.5
0.22189	20.5	20.5	20.5
0.25107	20.5	20.5	20.5
0.28316	20.5	20.5	20.5
0.31846	20.5	20.5	20.5
0.35729	20.5	20.5	20.5
0.4	20.5	20.5	20.5

(b)

Distance (m)	Scheme 1	Scheme 2	Scheme 3
0	15.46979	11.44913	7.94892
0.00698	16.2763	13.09711	10.62373
0.01467	17.02215	14.61346	13.07066
0.02312	17.70345	15.97933	15.22042
0.03241	18.31503	17.17388	17.00739
0.04264	18.85126	18.1783	18.38812
0.05388	19.30721	18.98086	19.35914
0.06626	19.67997	19.58183	19.96511
0.07987	19.97	19.9966	20.29041
0.09484	20.18217	20.25522	20.43483
0.1113	20.32596	20.39742	20.48515
0.12942	20.41469	20.46431	20.49787
0.14934	20.46348	20.49021	20.49989
0.17126	20.48678	20.49805	20.50001
0.19537	20.49612	20.49976	20.5
0.22189	20.49913	20.49999	20.5

0.25107	20.49987	20.5	20.5
0.28316	20.49999	20.5	20.5
0.31846	20.5	20.5	20.5
0.35729	20.5	20.5	20.5
0.4	20.5	20.5	20.5

(c)

Distance (m)	Scheme 1	Scheme 2	Scheme 3
0	14.59366	10.49179	7.36354
0.00698	15.33892	11.90805	9.52576
0.01467	16.04274	13.24419	11.56225
0.02312	16.70449	14.49403	13.44701
0.03241	17.32214	15.64807	15.14756
0.04264	17.89251	16.6943	16.62937
0.05388	18.41157	17.61977	17.86249
0.06626	18.87492	18.41259	18.82958
0.07987	19.27843	19.0645	19.53317
0.09484	19.61897	19.57363	19.99915
0.1113	19.89532	19.94653	20.27378
0.12942	20.10897	20.19887	20.41387
0.14934	20.26459	20.3538	20.47358
0.17126	20.36996	20.43825	20.4939
0.19537	20.43526	20.47804	20.49906
0.22189	20.47158	20.49371	20.49993
0.25107	20.48931	20.49864	20.5

0.28316	20.49667	20.49981	20.5
0.31846	20.49919	20.49999	20.5
0.35729	20.49986	20.5	20.5
0.4	20.5	20.5	20.5

(d)

Distance (m)	Scheme 1	Scheme 2	Scheme 3
0	13.30977	9.30471	6.71986
0.00698	13.95942	10.4219	8.30188
0.01467	14.58261	11.49406	9.82
0.02312	15.18112	12.52307	11.27303
0.03241	15.75581	13.50889	12.6561
0.04264	16.30671	14.44969	13.96078
0.05388	16.83308	15.34193	15.17547
0.06626	17.33347	16.18046	16.28618
0.07987	17.80572	16.95879	17.27783
0.09484	18.24712	17.66952	18.13622
0.1113	18.65446	18.30495	18.85066
0.12942	19.02434	18.85804	19.41674
0.14934	19.35342	19.3236	19.8387
0.17126	19.63887	19.69953	20.13048
0.19537	19.87885	19.98796	20.31453
0.22189	20.07306	20.19589	20.4183
0.25107	20.2232	20.33488	20.46934
0.28316	20.33329	20.41984	20.49058

0.31846	20.40974	20.46705	20.49779
0.35729	20.46138	20.49244	20.49986
0.4	20.5	20.5	20.5

Comparison of the variation laws for wall temperature

Time (h)	Scheme 1	Scheme 2	Scheme 3
0	20.48186	20.46349	20.42951
5.28E-05	20.46332	20.42585	20.35647
1.08E-04	20.44438	20.38706	20.28084
1.66E-04	20.42506	20.34713	20.20259
2.27E-04	20.40537	20.30605	20.12167
2.92E-04	20.38533	20.26382	20.03805
3.59E-04	20.36494	20.22046	19.9517
4.30E-04	20.34423	20.17597	19.86262
5.04E-04	20.3232	20.13036	19.77077
5.82E-04	20.30188	20.08364	19.67616
6.64E-04	20.28029	20.03585	19.57878
7.50E-04	20.25844	19.987	19.47865
8.40E-04	20.23635	19.93712	19.37578
9.35E-04	20.21403	19.88623	19.27021
0.00103	20.19152	19.83437	19.16195
0.00114	20.16881	19.78157	19.05107
0.00125	20.14594	19.72788	18.93762
0.00136	20.1229	19.67334	18.82167

0.00148	20.09973	19.61798	18.70329
0.00161	20.07643	19.56186	18.58258
0.00175	20.05301	19.50502	18.45965
0.00189	20.02948	19.44751	18.33459
0.00203	20.00586	19.38938	18.20755
0.00219	19.98213	19.33068	18.07865
0.00235	19.95831	19.27145	17.94804
0.00252	19.9344	19.21176	17.81588
0.0027	19.9104	19.15163	17.68233
0.00289	19.88629	19.09112	17.54756
0.00308	19.86208	19.03026	17.41175
0.00329	19.83776	18.9691	17.27509
0.00351	19.81331	18.90766	17.13777
0.00373	19.78872	18.84599	16.99997
0.00397	19.76399	18.78409	16.8619
0.00423	19.73909	18.72199	16.72374
0.00449	19.71401	18.65971	16.58568
0.00477	19.68873	18.59725	16.4479
0.00506	19.66323	18.53462	16.31059
0.00536	19.6375	18.47182	16.1739
0.00568	19.61152	18.40883	16.03799
0.00602	19.58528	18.34565	15.90302
0.00638	19.55874	18.28227	15.7691
0.00675	19.53191	18.21865	15.63635
0.00714	19.50476	18.15479	15.50487
0.00755	19.47727	18.09065	15.37474

0.00798	19.44944	18.02621	15.24602
0.00843	19.42124	17.96144	15.11876
0.0089	19.39267	17.89631	14.99298
0.0094	19.36371	17.8308	14.86868
0.00992	19.33435	17.76486	14.74587
0.01047	19.30458	17.69849	14.62451
0.01105	19.27439	17.63164	14.50458
0.01165	19.24376	17.5643	14.38602
0.01229	19.2127	17.49645	14.26878
0.01296	19.18119	17.42807	14.1528
0.01366	19.14922	17.35913	14.038
0.01439	19.11679	17.28963	13.92431
0.01517	19.08388	17.21955	13.81167
0.01598	19.05049	17.14889	13.7
0.01683	19.01661	17.07763	13.58923
0.01772	18.98224	17.00577	13.47931
0.01866	18.94736	16.93331	13.37018
0.01965	18.91198	16.86025	13.26178
0.02068	18.87608	16.78657	13.15408
0.02177	18.83966	16.7123	13.04705
0.02291	18.80272	16.63742	12.94065
0.02411	18.76525	16.56195	12.83487
0.02537	18.72724	16.48588	12.72969
0.02669	18.68869	16.40922	12.62512
0.02808	18.64961	16.33199	12.52115
0.02953	18.60997	16.25419	12.41779

0.03106	18.56978	16.17583	12.31504
0.03267	18.52904	16.09692	12.21292
0.03435	18.48775	16.01747	12.11144
0.03612	18.44589	15.9375	12.01063
0.03798	18.40348	15.85701	11.91049
0.03993	18.3605	15.77603	11.81105
0.04198	18.31697	15.69457	11.71232
0.04414	18.27286	15.61264	11.61434
0.0464	18.2282	15.53026	11.51711
0.04877	18.18297	15.44746	11.42066
0.05126	18.13718	15.36424	11.32501
0.05388	18.09082	15.28064	11.23018
0.05662	18.04391	15.19666	11.13618
0.05951	17.99644	15.11234	11.04305
0.06253	17.94841	15.02768	10.95079
0.06571	17.89982	14.94273	10.85943
0.06905	17.85069	14.85749	10.76897
0.07256	17.80101	14.772	10.67945
0.07624	17.75079	14.68627	10.59087
0.0801	17.70003	14.60034	10.50325
0.08416	17.64874	14.51423	10.41661
0.08842	17.59693	14.42796	10.33095
0.09289	17.54459	14.34157	10.2463
0.09759	17.49174	14.25507	10.16266
0.10252	17.43839	14.1685	10.08005
0.1077	17.38454	14.08189	9.99847

0.11314	17.3302	13.99525	9.91794
0.11885	17.27538	13.90863	9.83846
0.12485	17.22009	13.82204	9.76004
0.13114	17.16434	13.73552	9.68269
0.13775	17.10814	13.6491	9.60641
0.14469	17.0515	13.5628	9.53121
0.15198	16.99443	13.47665	9.45709
0.15963	16.93695	13.39068	9.38405
0.16767	16.87906	13.30492	9.3121
0.1761	16.82078	13.2194	9.24123
0.18496	16.76212	13.13414	9.17145
0.19426	16.70309	13.04918	9.10276
0.20403	16.64372	12.96453	9.03515
0.21428	16.58401	12.88023	8.96862
0.22505	16.52397	12.7963	8.90317
0.23635	16.46363	12.71277	8.83879
0.24822	16.403	12.62966	8.77548
0.26069	16.34209	12.54701	8.71323
0.27377	16.28093	12.46482	8.65204
0.28751	16.21952	12.38313	8.59191
0.30194	16.15788	12.30196	8.53281
0.31709	16.09603	12.22133	8.47475
0.333	16.03399	12.14127	8.41771
0.3497	15.97178	12.06178	8.3617
0.36724	15.9094	11.9829	8.30668
0.38566	15.84688	11.90465	8.25267

0.40499	15.78424	11.82703	8.19964
0.42529	15.72149	11.75007	8.14759
0.44661	15.65866	11.67379	8.09651
0.46899	15.59575	11.59819	8.04637
0.4925	15.53279	11.5233	7.99718
0.51717	15.46979	11.44913	7.94892
0.54309	15.40678	11.37569	7.90157
0.57029	15.34376	11.303	7.85513
0.59886	15.28076	11.23106	7.80958
0.62886	15.21779	11.15988	7.7649
0.66035	15.15488	11.08948	7.72109
0.69342	15.09203	11.01986	7.67814
0.72815	15.02927	10.95103	7.63602
0.76461	14.96661	10.883	7.59473
0.80289	14.90407	10.81576	7.55424
0.84309	14.84166	10.74934	7.51456
0.88529	14.7794	10.68373	7.47566
0.92961	14.7173	10.61893	7.43754
0.97614	14.65539	10.55495	7.40017
1.025	14.59366	10.49179	7.36354
1.07631	14.53215	10.42944	7.32764
1.13017	14.47086	10.36792	7.29247
1.18674	14.40981	10.30721	7.25799
1.24613	14.34901	10.24733	7.22421
1.30848	14.28847	10.18826	7.1911
1.37396	14.2282	10.13	7.15866

1.44271	14.16822	10.07256	7.12687
1.5149	14.10855	10.01592	7.09572
1.5907	14.04918	9.96009	7.06519
1.67029	13.99013	9.90505	7.03528
1.75385	13.93141	9.85081	7.00597
1.8416	13.87303	9.79736	6.97725
1.93373	13.815	9.74469	6.94911
2.03047	13.75733	9.69279	6.92153
2.13205	13.70003	9.64167	6.8945
2.2387	13.6431	9.5913	6.86802
2.35069	13.58655	9.5417	6.84206
2.46828	13.53039	9.49284	6.81663
2.59174	13.47463	9.44471	6.7917
2.72138	13.41927	9.39733	6.76727
2.85751	13.36432	9.35066	6.74333
3.00043	13.30977	9.30471	6.71986

Variation curves of the dissipation capacity of the surrounding rocks with unit length

Time (h)	Scheme 1	Scheme 2	Scheme 3
0	3685.4639	3685.46327	3685.45954
5.28E-06	3685.4626	3685.46131	3685.45374
1.07E-05	3685.4612	3685.45929	3685.44777
1.63E-05	3685.4598	3685.45721	3685.44162
2.21E-05	3685.4584	3685.45507	3685.43528
2.80E-05	3685.4569	3685.45286	3685.42876

3.41E-05	3685.4553	3685.45059	3685.42203
4.04E-05	3685.4538	3685.44825	3685.41511
4.69E-05	3685.4521	3685.44584	3685.40798
5.36E-05	3685.4505	3685.44335	3685.40063
6.05E-05	3685.4487	3685.44079	3685.39306
6.76E-05	3685.447	3685.43816	3685.38527
7.49E-05	3685.4451	3685.43545	3685.37724
8.24E-05	3685.4433	3685.43265	3685.36898
9.02E-05	3685.4413	3685.42977	3685.36046
9.82E-05	3685.4393	3685.42681	3685.35169
1.06E-04	3685.4373	3685.42375	3685.34265
1.15E-04	3685.4351	3685.4206	3685.33335
1.24E-04	3685.4329	3685.41736	3685.32376
1.33E-04	3685.4307	3685.41403	3685.31389
1.42E-04	3685.4284	3685.41059	3685.30372
1.51E-04	3685.426	3685.40705	3685.29325
1.61E-04	3685.4235	3685.4034	3685.28246
1.71E-04	3685.421	3685.39964	3685.27135
1.82E-04	3685.4184	3685.39577	3685.25991
1.92E-04	3685.4157	3685.39179	3685.24812
2.03E-04	3685.4129	3685.38768	3685.23598
2.15E-04	3685.4101	3685.38346	3685.22347
2.27E-04	3685.4071	3685.3791	3685.21059
2.39E-04	3685.4041	3685.37462	3685.19733
2.51E-04	3685.401	3685.37	3685.18366
2.64E-04	3685.3978	3685.36524	3685.16959

2.77E-04	3685.3945	3685.36034	3685.15509
2.91E-04	3685.3911	3685.35529	3685.14016
3.05E-04	3685.3876	3685.35009	3685.12478
3.19E-04	3685.384	3685.34473	3685.10894
3.34E-04	3685.3803	3685.33921	3685.09262
3.49E-04	3685.3764	3685.33353	3685.07581
3.65E-04	3685.3725	3685.32768	3685.05851
3.81E-04	3685.3684	3685.32165	3685.04068
3.98E-04	3685.3642	3685.31544	3685.02231
4.15E-04	3685.3599	3685.30905	3685.0034
4.33E-04	3685.3555	3685.30246	3684.98392
4.51E-04	3685.3509	3685.29568	3684.96385
4.70E-04	3685.3462	3685.28869	3684.94318
4.89E-04	3685.3413	3685.28149	3684.92189
5.09E-04	3685.3363	3685.27408	3684.89997
5.30E-04	3685.3312	3685.26644	3684.87738
5.51E-04	3685.3259	3685.25857	3684.85412
5.73E-04	3685.3204	3685.25047	3684.83016
5.95E-04	3685.3148	3685.24213	3684.80549
6.18E-04	3685.309	3685.23353	3684.78007
6.42E-04	3685.303	3685.22468	3684.75389
6.67E-04	3685.2969	3685.21556	3684.72692
6.92E-04	3685.2906	3685.20617	3684.69915
7.18E-04	3685.284	3685.1965	3684.67054
7.45E-04	3685.2773	3685.18654	3684.64108
7.73E-04	3685.2704	3685.17627	3684.61073

8.01E-04	3685.2633	3685.1657	3684.57947
8.30E-04	3685.2559	3685.15482	3684.54727
8.61E-04	3685.2484	3685.1436	3684.51411
8.92E-04	3685.2406	3685.13205	3684.47995
9.24E-04	3685.2326	3685.12016	3684.44477
9.57E-04	3685.2243	3685.1079	3684.40854
9.91E-04	3685.2158	3685.09528	3684.37121
0.00103	3685.207	3685.08228	3684.33277
0.00106	3685.198	3685.06889	3684.29318
0.0011	3685.1887	3685.0551	3684.25239
0.00114	3685.1791	3685.0409	3684.21039
0.00118	3685.1693	3685.02627	3684.16712
0.00122	3685.1591	3685.0112	3684.12256
0.00126	3685.1486	3684.99568	3684.07666
0.0013	3685.1379	3684.97969	3684.02939
0.00135	3685.1268	3684.96322	3683.9807
0.00139	3685.1153	3684.94626	3683.93054
0.00144	3685.1035	3684.92879	3683.87889
0.00149	3685.0914	3684.9108	3683.82568
0.00154	3685.0789	3684.89227	3683.77088
0.00159	3685.066	3684.87318	3683.71444
0.00164	3685.0528	3684.85352	3683.6563
0.0017	3685.0391	3684.83327	3683.59642
0.00175	3685.0251	3684.81241	3683.53475
0.00181	3685.0106	3684.79092	3683.47123
0.00187	3684.9957	3684.76879	3683.4058

0.00193	3684.9803	3684.746	3683.33841
0.00199	3684.9645	3684.72253	3683.269
0.00206	3684.9482	3684.69835	3683.19751
0.00213	3684.9314	3684.67344	3683.12387
0.0022	3684.9141	3684.64779	3683.04803
0.00227	3684.8963	3684.62137	3682.96992
0.00234	3684.8779	3684.59415	3682.88946
0.00242	3684.859	3684.56612	3682.80659
0.00249	3684.8395	3684.53725	3682.72124
0.00257	3684.8195	3684.50751	3682.63333
0.00266	3684.7988	3684.47689	3682.54278
0.00274	3684.7776	3684.44534	3682.44952
0.00283	3684.7557	3684.41285	3682.35347
0.00292	3684.7331	3684.37938	3682.25454
0.00301	3684.7099	3684.34491	3682.15264
0.00311	3684.6859	3684.3094	3682.04768
0.00321	3684.6613	3684.27283	3681.93959
0.00331	3684.6359	3684.23516	3681.82825
0.00341	3684.6097	3684.19637	3681.71357
0.00352	3684.5828	3684.15641	3681.59546
0.00363	3684.555	3684.11525	3681.47381
0.00374	3684.5264	3684.07286	3681.34852
0.00386	3684.497	3684.0292	3681.21947
0.00398	3684.4667	3683.98422	3681.08655
0.00411	3684.4354	3683.9379	3680.94966
0.00424	3684.4033	3683.89019	3680.80866

0.00437	3684.3701	3683.84105	3680.66343
0.0045	3684.336	3683.79044	3680.51386
0.00464	3684.3008	3683.7383	3680.3598
0.00479	3684.2646	3683.68461	3680.20114
0.00494	3684.2273	3683.6293	3680.03771
0.00509	3684.1889	3683.57234	3679.8694
0.00525	3684.1494	3683.51367	3679.69604
0.00541	3684.1086	3683.45324	3679.51749
0.00558	3684.0667	3683.391	3679.33359
0.00575	3684.0234	3683.32689	3679.14419
0.00593	3683.9789	3683.26086	3678.94912
0.00611	3683.933	3683.19285	3678.7482
0.0063	3683.8858	3683.1228	3678.54127
0.0065	3683.8372	3683.05065	3678.32814
0.0067	3683.7871	3682.97634	3678.10864
0.0069	3683.7354	3682.8998	3677.88256
0.00712	3683.6823	3682.82097	3677.64971
0.00733	3683.6275	3682.73977	3677.4099
0.00756	3683.5711	3682.65614	3677.16291
0.00779	3683.513	3682.57	3676.90852
0.00803	3683.4532	3682.48129	3676.64653
0.00828	3683.3916	3682.38991	3676.37669
0.00853	3683.3281	3682.29579	3676.09878
0.00879	3683.2628	3682.19885	3675.81256
0.00906	3683.1954	3682.09901	3675.51778
0.00934	3683.1261	3681.99617	3675.21417

0.00962	3683.0547	3681.89026	3674.90149
0.00992	3682.9811	3681.78117	3674.57945
0.01022	3682.9053	3681.66881	3674.24779
0.01053	3682.8273	3681.55308	3673.9062
0.01085	3682.7469	3681.43388	3673.55441
0.01118	3682.6641	3681.31112	3673.19209
0.01152	3682.5788	3681.18467	3672.81895
0.01188	3682.491	3681.05444	3672.43465
0.01224	3682.4005	3680.9203	3672.03887
0.01261	3682.3073	3680.78215	3671.63126
0.01299	3682.2114	3680.63986	3671.21147
0.01339	3682.1125	3680.4933	3670.77914
0.0138	3682.0107	3680.34236	3670.3339
0.01421	3681.9059	3680.18689	3669.87536
0.01465	3681.7979	3680.02677	3669.40312
0.01509	3681.6866	3679.86185	3668.91678
0.01555	3681.5721	3679.69199	3668.41593
0.01602	3681.4541	3679.51705	3667.90012
0.01651	3681.3325	3679.33686	3667.36891
0.01701	3681.2074	3679.15128	3666.82186
0.01752	3681.0784	3678.96015	3666.25848
0.01805	3680.9457	3678.76329	3665.67829
0.0186	3680.8089	3678.56054	3665.0808
0.01916	3680.668	3678.35171	3664.46549
0.01974	3680.523	3678.13664	3663.83183
0.02034	3680.3735	3677.91513	3663.17929

0.02096	3680.2196	3677.68698	3662.50729
0.02159	3680.0611	3677.45201	3661.81527
0.02224	3679.8979	3677.21001	3661.10263
0.02292	3679.7297	3676.96076	3660.36876
0.02361	3679.5566	3676.70406	3659.61303
0.02432	3679.3782	3676.43968	3658.8348
0.02506	3679.1945	3676.16738	3658.03341
0.02581	3679.0053	3675.88694	3657.20817
0.02659	3678.8104	3675.59811	3656.35837
0.0274	3678.6097	3675.30064	3655.48329
0.02822	3678.403	3674.99427	3654.58219
0.02908	3678.1901	3674.67875	3653.6543
0.02995	3677.9709	3674.35378	3652.69882
0.03086	3677.745	3674.0191	3651.71496
0.03179	3677.5125	3673.67442	3650.70186
0.03275	3677.2729	3673.31943	3649.65868
0.03374	3677.0262	3672.95382	3648.58453
0.03475	3676.7721	3672.5773	3647.4785
0.0358	3676.5104	3672.18951	3646.33966
0.03688	3676.2409	3671.79015	3645.16703
0.03799	3675.9633	3671.37885	3643.95964
0.03914	3675.6775	3670.95526	3642.71646
0.04032	3675.383	3670.51902	3641.43645
0.04153	3675.0798	3670.06975	3640.11853
0.04278	3674.7675	3669.60707	3638.76159
0.04407	3674.4459	3669.13057	3637.36449

0.0454	3674.1146	3668.63984	3635.92607
0.04677	3673.7735	3668.13447	3634.44511
0.04817	3673.4222	3667.61402	3632.92038
0.04963	3673.0603	3667.07803	3631.3506
0.05112	3672.6877	3666.52605	3629.73447
0.05266	3672.3039	3665.95761	3628.07064
0.05424	3671.9087	3665.37222	3626.35772
0.05588	3671.5016	3664.76936	3624.5943
0.05756	3671.0824	3664.14854	3622.77891
0.05929	3670.6507	3663.50921	3620.91005
0.06107	3670.2061	3662.85082	3618.98617
0.06291	3669.7483	3662.17281	3617.00569
0.0648	3669.2767	3661.47461	3614.96698
0.06675	3668.7911	3660.75561	3612.86835
0.06876	3668.2911	3660.0152	3610.7081
0.07083	3667.7761	3659.25275	3608.48444
0.07296	3667.2457	3658.4676	3606.19557
0.07515	3666.6995	3657.65909	3603.83961
0.07741	3666.1371	3656.82652	3601.41465
0.07974	3665.5578	3655.96919	3598.91871
0.08214	3664.9613	3655.08637	3596.34979
0.08461	3664.3471	3654.1773	3593.70579
0.08715	3663.7145	3653.24122	3590.98459
0.08977	3663.0631	3652.27732	3588.18401
0.09247	3662.3924	3651.28479	3585.30178
0.09525	3661.7016	3650.2628	3582.33561

0.09811	3660.9903	3649.21046	3579.28312
0.10106	3660.2578	3648.1269	3576.1419
0.1041	3659.5035	3647.01119	3572.90944
0.10722	3658.7268	3645.8624	3569.58319
0.11045	3657.9271	3644.67955	3566.16053
0.11377	3657.1035	3643.46165	3562.63876
0.11718	3656.2555	3642.20767	3559.01513
0.1207	3655.3822	3640.91655	3555.28681
0.12433	3654.4831	3639.58722	3551.45089
0.12807	3653.5572	3638.21856	3547.5044
0.13191	3652.6039	3636.80942	3543.4443
0.13588	3651.6223	3635.35862	3539.26746
0.13996	3650.6115	3633.86495	3534.97067
0.14416	3649.5708	3632.32716	3530.55067
0.14849	3648.4993	3630.74397	3526.00409
0.15295	3647.396	3629.11407	3521.32749
0.15755	3646.26	3627.43609	3516.51735
0.16228	3645.0904	3625.70865	3511.57007
0.16715	3643.8862	3623.93031	3506.48196
0.17217	3642.6463	3622.09961	3501.24923
0.17734	3641.3698	3620.21502	3495.86804
0.18267	3640.0556	3618.27501	3490.33442
0.18815	3638.7025	3616.27797	3484.64434
0.1938	3637.3095	3614.22227	3478.79367
0.19962	3635.8754	3612.10621	3472.77818
0.20562	3634.3989	3609.92806	3466.59356

0.21179	3632.879	3607.68606	3460.23542
0.21815	3631.3142	3605.37836	3453.69923
0.2247	3629.7033	3603.0031	3446.98042
0.23144	3628.045	3600.55835	3440.0743
0.23839	3626.338	3598.04213	3432.97607
0.24555	3624.5807	3595.4524	3425.68086
0.25292	3622.7718	3592.78709	3418.18369
0.26051	3620.9098	3590.04405	3410.4795
0.26833	3618.9931	3587.22108	3402.56311
0.27639	3617.0202	3584.31593	3394.42926
0.28469	3614.9895	3581.32628	3386.0726
0.29323	3612.8993	3578.24975	3377.48767
0.30204	3610.7479	3575.08391	3368.66892
0.3111	3608.5336	3571.82626	3359.61072
0.32044	3606.2546	3568.47422	3350.30733
0.33006	3603.9091	3565.02518	3340.75293
0.33997	3601.4951	3561.47644	3330.94162
0.35017	3599.0108	3557.82521	3320.86739
0.36068	3596.4541	3554.06868	3310.52416
0.37151	3593.823	3550.20393	3299.90578
0.38266	3591.1154	3546.22798	3289.00599
0.39414	3588.3292	3542.13779	3277.81847
0.40597	3585.4621	3537.93021	3266.33685
0.41815	3582.5119	3533.60206	3254.55465
0.4307	3579.4763	3529.15004	3242.46534
0.44363	3576.3529	3524.57079	3230.06236

0.45695	3573.1392	3519.86088	3217.33905
0.47066	3569.8328	3515.01678	3204.28872
0.48478	3566.4311	3510.03489	3190.90465
0.49933	3562.9314	3504.91152	3177.18007
0.51432	3559.3311	3499.6429	3163.10817
0.52975	3555.6275	3494.22517	3148.68214
0.54565	3551.8176	3488.65439	3133.89514
0.56203	3547.8986	3482.92652	3118.74034
0.57889	3543.8675	3477.03744	3103.2109
0.59626	3539.7213	3470.98295	3087.3
0.61416	3535.4569	3464.75874	3071.00085
0.63259	3531.0711	3458.36042	3054.30668
0.65157	3526.5606	3451.78351	3037.2108
0.67112	3521.9222	3445.02343	3019.70654
0.69126	3517.1523	3438.07553	3001.78735
0.712	3512.2476	3430.93503	2983.44674
0.73337	3507.2044	3423.5971	2964.67833
0.75538	3502.0192	3416.05677	2945.47588
0.77804	3496.6881	3408.30903	2925.83325
0.80139	3491.2074	3400.34874	2905.7445
0.82544	3485.5733	3392.17067	2885.20384
0.8502	3479.7817	3383.76952	2864.20568
0.87572	3473.8287	3375.13988	2842.74465
0.90199	3467.71	3366.27627	2820.81561
0.92906	3461.4215	3357.1731	2798.41368
0.95693	3454.9589	3347.82471	2775.53427

0.98565	3448.3178	3338.22535	2752.17309
1.01522	3441.4938	3328.36918	2728.32619
1.04568	3434.4823	3318.25028	2703.98998
1.07706	3427.2786	3307.86268	2679.16123
1.10938	3419.8782	3297.20028	2653.83717
1.14266	3412.2762	3286.25697	2628.01544
1.17695	3404.4677	3275.02652	2601.69416
1.21226	3396.4478	3263.50267	2574.87196
1.24864	3388.2114	3251.67908	2547.54799
1.2861	3379.7535	3239.54936	2519.72198
1.32469	3371.0689	3227.10707	2491.39426
1.36444	3362.1524	3214.34573	2462.56579
1.40537	3352.9986	3201.25881	2433.23819
1.44754	3343.602	3187.83976	2403.41379
1.49097	3333.9574	3174.08199	2373.09564
1.53571	3324.0591	3159.9789	2342.28758
1.58178	3313.9016	3145.52389	2310.99424
1.62924	3303.4792	3130.71035	2279.22108
1.67812	3292.7863	3115.53167	2246.97445
1.72847	3281.817	3099.98127	2214.26159
1.78033	3270.5657	3084.0526	2181.09069
1.83375	3259.0265	3067.73915	2147.4709
1.88877	3247.1936	3051.03445	2113.41239
1.94543	3235.061	3033.93211	2078.92633
2.0038	3222.6228	3016.42581	2044.02499
2.06392	3209.8733	2998.50934	2008.72168

2.12584	3196.8063	2980.17658	1973.03087
2.18962	3183.4161	2961.42153	1936.96812
2.25532	3169.6967	2942.23836	1900.55018
2.32298	3155.6421	2922.62137	1863.79494
2.39268	3141.2467	2902.56504	1826.7215
2.46446	3126.5044	2882.06408	1789.35014
2.5384	3111.4097	2861.11337	1751.70233
2.61456	3095.9567	2839.70806	1713.80076
2.693	3080.1398	2817.84354	1675.66933
2.7738	3063.9534	2795.51551	1637.3331
2.85702	3047.3922	2772.71996	1598.81833
2.94273	3030.4508	2749.4532	1560.15246
3.03102	3013.1239	2725.71192	1521.36403
3.12196	2995.4066	2701.49319	1482.48273
3.21562	2977.2939	2676.79448	1443.53929
3.31209	2958.7812	2651.6137	1404.56549
3.41146	2939.8638	2625.94926	1365.59409
3.51381	2920.5376	2599.80003	1326.65876
3.61923	2900.7984	2573.16542	1287.79404
3.72781	2880.6424	2546.04542	1249.03526
3.83965	2860.0661	2518.44058	1210.41844
3.95485	2839.0664	2490.35211	1171.98023
4.0735	2817.6402	2461.78184	1133.75782
4.19571	2795.785	2432.73231	1095.7888
4.32158	2773.4987	2403.20678	1058.11108
4.45124	2750.7794	2373.20928	1020.76277

4.58478	2727.6259	2342.74459	983.78206
4.72233	2704.0371	2311.81834	947.20707
4.864	2680.0127	2280.43702	911.07572
5.00993	2655.5526	2248.608	875.42562
5.16023	2630.6576	2216.33954	840.29386
5.31504	2605.3287	2183.64089	805.71694
5.4745	2579.5677	2150.52225	771.73054
5.63874	2553.3769	2116.99484	738.3694
5.80791	2526.7593	2083.07089	705.66717
5.98215	2499.7187	2048.76373	673.65623
6.16162	2472.2593	2014.08771	642.36754
6.34648	2444.3863	1979.05834	611.8305
6.53687	2416.1056	1943.6922	582.07277
6.73299	2387.4237	1908.00703	553.12013
6.93498	2358.3482	1872.02169	524.99638
7.14304	2328.8873	1835.75623	497.72315
7.35733	2299.0502	1799.23181	471.31979
7.57806	2268.847	1762.47079	445.80329
7.8054	2238.2885	1725.49663	421.18814
8.03957	2207.3868	1688.33399	397.48626
8.28076	2176.1546	1651.00862	374.7069
8.52919	2144.6057	1613.54739	352.85664
8.78507	2112.7548	1575.97824	331.93927
9.04863	2080.6178	1538.33019	311.95584
9.3201	2048.2114	1500.63324	292.90459
9.5997	2015.5534	1462.91838	274.78101

9.8877	1982.6625	1425.21752	257.57786
10.18434	1949.5584	1387.56341	241.28519
10.48987	1916.262	1349.98961	225.89048
10.80457	1882.795	1312.5304	211.37865
11.12871	1849.18	1275.2207	197.73224
11.46258	1815.4408	1238.09598	184.9315
11.80646	1781.6019	1201.19218	172.95453
12.16066	1747.6888	1164.5456	161.77746
12.52549	1713.7278	1128.19278	151.37464
12.90126	1679.7461	1092.17041	141.71877
13.2883	1645.7716	1056.51517	132.78116
13.68696	1611.833	1021.26364	124.53189
14.09757	1577.9594	986.45217	116.94004
14.5205	1544.1808	952.1167	109.97393
14.95612	1510.5276	918.29264	103.60129
15.40481	1477.0306	885.01475	97.7895
15.86696	1443.7209	852.31693	92.50581
16.34298	1410.6301	820.23214	87.71753
16.83327	1377.7897	788.7922	83.39226
17.33827	1345.2314	758.02764	79.49803
17.85843	1312.9869	727.96757	76.00351
18.39419	1281.0875	698.63954	72.87817
18.94602	1249.5646	670.06934	70.0924
19.5144	1218.4488	642.28095	67.6177
20.09984	1187.7705	615.29631	65.42671
20.70284	1157.5593	589.13529	63.49338

21.32393	1127.8441	563.81549	61.793
21.96365	1098.6527	539.3522	60.30227
22.62257	1070.0122	515.75826	58.99934
23.30125	1041.9483	493.04404	57.86384
24.00029	1014.4854	471.21728	56.87687
24.72031	987.64651	450.28316	56.02101
25.46192	961.45317	430.24414	55.28027
26.22578	935.92517	411.10005	54.64006
27.01256	911.08057	392.84804	54.08718
27.82295	886.93555	375.4826	53.60968
28.65764	863.50432	358.99561	53.19689
29.51737	840.79903	343.37639	52.83927
30.4029	818.82971	328.61178	52.52838
31.31499	797.60418	314.68625	52.25679
32.25445	777.12804	301.58198	52.01797
33.22209	757.4046	289.27899	51.80626
34.21875	738.43486	277.75535	51.61675
35.24532	720.21752	266.98722	51.44523
36.30269	702.74898	256.94916	51.2881
37.39177	686.02336	247.61419	51.14228
38.51353	670.03254	238.95406	51.00521
39.66894	654.76624	230.93943	50.8747
40.85902	640.21205	223.54006	50.74895
42.08479	626.35556	216.72503	50.62646
43.34734	613.18044	210.46296	50.506
44.64777	600.66856	204.72221	50.38656

45.9872	588.80014	199.47104	50.2673
47.36683	577.55386	194.6779	50.14756
48.78784	566.90705	190.31151	50.0268
50.25148	556.83585	186.34114	49.90457
51.75903	547.31534	182.73668	49.78054
53.3118	538.31977	179.46888	49.6544
54.91116	529.82272	176.5094	49.52595
56.5585	521.79728	173.83103	49.39499
58.25526	514.21624	171.40768	49.26138
60.00292	507.05227	169.21456	49.125
61.80302	500.2781	167.22822	48.98574
63.65711	493.86668	165.42655	48.84351
65.56683	487.79136	163.7889	48.69826
67.53384	482.02605	162.29604	48.54991
69.55986	476.54532	160.93015	48.39842
71.64666	471.3246	159.67487	48.24373
73.79607	466.34023	158.51519	48.08581
76.00996	461.56958	157.43748	47.9246
78.29026	456.99119	156.42941	47.76009
80.63897	452.58474	155.47988	47.59222
83.05815	448.33121	154.579	47.42099
85.5499	444.21283	153.71795	47.24634
88.1164	440.21316	152.88898	47.06827
90.7599	436.31709	152.08527	46.88675
93.4827	432.5108	151.30089	46.70176
96.28719	428.78178	150.53071	46.51329

99.17581	425.11878	149.77032	46.32131
102.15109	421.51176	149.01596	46.12582
105.21562	417.95187	148.26445	45.9268
108.3721	414.43137	147.51314	45.72426
111.62327	410.94354	146.75979	45.51819
114.97197	407.48267	146.00259	45.30859
118.42113	404.04394	145.24006	45.09546
121.97377	400.62336	144.471	44.87882
125.63299	397.21769	143.69448	44.65867
129.40199	393.8244	142.90976	44.43504
133.28405	390.44152	142.1163	44.20794
137.28258	387.06766	141.3137	43.97739
141.40106	383.70189	140.5017	43.74342
145.6431	380.34367	139.68012	43.50608
150.0124	376.99284	138.8489	43.26538
154.51277	373.64951	138.00803	43.02138
159.14816	370.31405	137.15757	42.77411
163.92261	366.98704	136.29763	42.52364
168.8403	363.6692	135.42837	42.27001
173.90551	360.3614	134.54998	42.01329
179.12268	357.0646	133.66268	41.75354
184.49637	353.7798	132.76672	41.49082
190.03126	350.5081	131.86238	41.22522
195.73221	347.25058	130.94995	40.95681
201.60418	344.00834	130.02976	40.68568
207.65231	340.7825	129.10212	40.41191

213.88188	337.57412	128.16741	40.13559
220.29834	334.38427	127.22597	39.85683
226.9073	331.21396	126.27818	39.57572
233.71452	328.06416	125.32445	39.29237
240.72597	324.93582	124.36517	39.00689
247.94775	321.82981	123.40075	38.7194
255.38619	318.74695	122.43162	38.43
263.04778	315.68801	121.45821	38.13882
270.93922	312.65372	120.48097	37.84599
279.0674	309.64472	119.50033	37.55164
287.43943	306.66162	118.51676	37.25588
296.06261	303.70495	117.5307	36.95886
304.9445	300.7752	116.54262	36.66071
314.09284	297.8728	115.55299	36.36156
323.51563	294.99813	114.56226	36.06156
333.2211	292.1515	113.57091	35.76084
343.21774	289.3332	112.57939	35.45954
353.51428	286.54345	111.58817	35.15781
364.11971	283.78243	110.5977	34.85578
375.04331	281.05028	109.60843	34.5536
386.29461	278.34709	108.62081	34.2514
397.88346	275.67293	107.63527	33.94934
409.81997	273.02781	106.65226	33.64753
422.11457	270.41174	105.67217	33.34613
434.77801	267.82467	104.69544	33.04526
447.82136	265.26653	103.72245	32.74506

461.256	262.73725	102.75359	32.44565
475.09369	260.23669	101.78922	32.14717
489.34651	257.76474	100.82972	31.84974
504.02691	255.32123	99.87541	31.55347
519.14772	252.90601	98.92663	31.25848
534.72216	250.51888	97.98368	30.96489
550.76383	248.15965	97.04687	30.67279
567.28675	245.82812	96.11646	30.3823
584.30535	243.52407	95.19272	30.09351
601.83452	241.24728	94.27589	29.80651
619.88956	238.99751	93.36619	29.5214
638.48625	236.77452	92.46383	29.23824
657.64084	234.57808	91.569	28.95713
677.37008	232.40793	90.68187	28.67813
697.69118	230.26383	89.8026	28.40131
718.62192	228.14551	88.93133	28.12673
740.18059	226.05271	88.06818	27.85445
762.38601	223.98519	87.21325	27.58451
785.25759	221.94267	86.36664	27.31697
808.81533	219.92489	85.52844	27.05187
833.07979	217.93158	84.69869	26.78924
858.07219	215.96249	83.87746	26.52911
883.81436	214.01733	83.06477	26.27151
910.3288	212.09586	82.26067	26.01646
937.63867	210.19779	81.46517	25.76399
965.76783	208.32286	80.67827	25.5141

994.74087	206.4708	79.89997	25.26681
1024.58311	204.64135	79.13026	25.02212
1055.3206	202.83424	78.36913	24.78005
1086.98023	201.04921	77.61654	24.54059
1119.58964	199.286	76.87246	24.30374
1153.17733	197.54433	76.13686	24.0695
1187.77266	195.82395	75.40969	23.83786
1223.40584	194.12459	74.69091	23.60882
1260.10803	192.44601	73.98046	23.38235
1297.91127	190.78794	73.27829	23.15847
1336.84861	189.15012	72.58433	22.93714
1376.95408	187.53231	71.89854	22.71836
1418.26271	185.93424	71.22083	22.5021
1460.81059	184.35568	70.55115	22.28836
1504.63492	182.79637	69.88943	22.07712
1549.77397	181.25607	69.23559	21.86835
1596.26719	179.73452	68.58957	21.66204
1644.15521	178.2315	67.95129	21.45816
1693.47988	176.74676	67.32069	21.25671
1744.28428	175.28006	66.69767	21.05765
1796.61281	173.83117	66.08218	20.86096
1850.5112	172.39985	65.47412	20.66663
1906.02654	170.98588	64.87343	20.47462
1963.20734	169.58902	64.28003	20.28493
2022.10357	168.20905	63.69384	20.09752
2082.76668	166.84575	63.11478	19.91237

2145.24969	165.4989	62.54278	19.72946
2209.60718	164.16827	61.97775	19.54876
2275.8954	162.85366	61.41962	19.37026
2344.17227	161.55484	60.8683	19.19393
2414.49744	160.2716	60.32373	19.01974
2486.93237	159.00375	59.78582	18.84767
2561.54035	157.75106	59.25449	18.6777
2638.38656	156.51333	58.72967	18.5098
2717.53817	155.29038	58.21128	18.34396
2799.06432	154.08198	57.69924	18.18014
2883.03625	152.88795	57.19347	18.01832
2969.52734	151.7081	56.6939	17.85849
3058.61317	150.54223	56.20045	17.70061
3150.37157	149.39015	55.71305	17.54466
3244.88272	148.25167	55.23162	17.39062
3342.22921	147.12662	54.75608	17.23847
3442.49609	146.0148	54.28637	17.08818
3545.77098	144.91603	53.8224	16.93973
3652.14411	143.83015	53.36411	16.7931
3761.70844	142.75697	52.91142	16.64826
3874.5597	141.69632	52.46426	16.5052
3990.7965	140.64802	52.02256	16.36389
4110.5204	139.61192	51.58625	16.2243
4233.83601	138.58784	51.15526	16.08642
4360.8511	137.57563	50.72951	15.95022
4491.67664	136.57511	50.30895	15.81569

4626.42694	135.58612	49.8935	15.6828
4765.21976	134.60852	49.4831	15.55152
4908.17635	133.64214	49.07767	15.42185
5055.42165	132.68684	48.67716	15.29375
5207.08431	131.74245	48.2815	15.16721
5363.29684	130.80884	47.89062	15.04221
5524.19575	129.88585	47.50445	14.91872
5689.92163	128.97333	47.12295	14.79674
5860.61928	128.07116	46.74604	14.67622
6036.43787	127.17918	46.37366	14.55717
6217.53101	126.29725	46.00575	14.43955
6404.05694	125.42524	45.64225	14.32335
6596.17866	124.56302	45.28311	14.20855
6794.06402	123.71044	44.92825	14.09513
6997.88595	122.86739	44.57764	13.98308
7207.82253	122.03372	44.23119	13.87236
7424.05721	121.20932	43.88887	13.76298
7646.77893	120.39405	43.55062	13.6549
7876.18231	119.58779	43.21637	13.54811
8112.46778	118.79042	42.88608	13.4426
8355.84182	118.00183	42.55969	13.33834
8606.51708	117.22188	42.23715	13.23532
8864.7126	116.45046	41.9184	13.13352
9130.65398	115.68746	41.6034	13.03292
9404.57361	114.93277	41.29209	12.93352
9686.71082	114.18627	40.98442	12.83529

9977.31215	113.44785	40.68034	12.73821
10276.63152	112.7174	40.37981	12.64228
10584.93047	111.99481	40.08277	12.54747
10902.47839	111.27999	39.78917	12.45377
11229.55275	110.57282	39.49898	12.36116
11566.43933	109.87321	39.21214	12.26964
11913.43252	109.18104	38.92861	12.17918
12270.8355	108.49623	38.64834	12.08977
12638.96057	107.81868	38.37128	12.0014
13018.12939	107.14827	38.0974	11.91405
13408.67328	106.48494	37.82665	11.8277
13810.93348	105.82856	37.55898	11.74235
14225.26149	105.17907	37.29436	11.65799
14652.01934	104.53636	37.03275	11.57459
15091.57993	103.90034	36.77409	11.49214
15544.32733	103.27092	36.51836	11.41063
16010.65716	102.64803	36.26551	11.33006
16490.97688	102.03157	36.0155	11.25039
16985.70619	101.42145	35.76829	11.17163
17495.27738	100.8176	35.52385	11.09377
18020.13571	100.21993	35.28214	11.01678
18560.73978	99.62836	35.04311	10.94065
19117.56198	99.04281	34.80674	10.86538
19691.08885	98.4632	34.57299	10.79095
20281.82152	97.88946	34.34182	10.71736
20890.27617	97.3215	34.1132	10.64458

21516.98446	96.75926	33.88709	10.57262
22162.494	96.20266	33.66346	10.50145
22827.36882	95.65162	33.44227	10.43107
23512.18989	95.10607	33.2235	10.36147
24217.55559	94.56595	33.0071	10.29263
24944.08227	94.03118	32.79306	10.22454
25692.40474	93.50169	32.58132	10.15721
26463.17689	92.97742	32.37188	10.0906
27257.0722	92.4583	32.16468	10.02473
28074.78437	91.94426	31.95971	9.95956
28917.02791	91.43524	31.75693	9.89511
29784.53875	90.93117	31.55632	9.83135
30678.07492	90.43199	31.35784	9.76827
31598.41717	89.93764	31.16146	9.70588
32546.36969	89.44806	30.96717	9.64415
33522.76079	88.96319	30.77493	9.58309
34528.44362	88.48296	30.5847	9.52267
35564.29693	88.00733	30.39648	9.4629
36631.22584	87.53623	30.21023	9.40375
37730.16262	87.0696	30.02591	9.34524
38862.06751	86.60739	29.84352	9.28734
40027.92954	86.14955	29.66302	9.23005
41228.76743	85.69602	29.48439	9.17336
42465.63046	85.24675	29.30759	9.11726
43739.59938	84.80168	29.13262	9.06175
45051.78736	84.36078	28.95944	9.00681

46403.34099	83.92399	28.78804	8.95245
47795.44123	83.49126	28.61838	8.89864
49229.30447	83.06255	28.45045	8.84539
50706.18361	82.63782	28.28421	8.79268
52227.36912	82.21702	28.11966	8.74052
53794.1902	81.80012	27.95677	8.68889
55408.01591	81.38708	27.79551	8.63778
57070.25639	80.97788	27.63587	8.5872
58782.36409	80.57247	27.47783	8.53712
60545.83502	80.17085	27.32136	8.48755
62362.21007	79.77299	27.16644	8.43848
64233.07638	79.37888	27.01305	8.3899
66160.06868	78.9885	26.86118	8.34181
68144.87074	78.60187	26.71081	8.2942
70189.21687	78.21898	26.5619	8.24706
72294.89338	77.83984	26.41446	8.20039
74463.74019	77.46448	26.26845	8.15418
76697.6524	77.09293	26.12387	8.10842
78998.58198	76.72522	25.98068	8.06312
81368.53944	76.36141	25.83888	8.01826
83809.59563	76.00155	25.69845	7.97383
86323.8835	75.64572	25.55937	7.92984
88913.60002	75.29399	25.42162	7.88628
91581.00802	74.94645	25.28519	7.84314
94328.43827	74.60322	25.15006	7.80042
97158.29142	74.26439	25.01622	7.75811

100073.0402	73.9301	24.88366	7.7162
103075.2314	73.60048	24.75235	7.6747
106167.4883	73.27568	24.62229	7.6336
109352.513	72.95585	24.49347	7.59289
112633.0884	72.64114	24.36586	7.55257
116012.081	72.33174	24.23947	7.51264
119492.4435	72.02782	24.11429	7.47309
123077.2168	71.72957	23.9903	7.43392
126769.5333	71.43716	23.8675	7.39513
130572.6193	71.15079	23.74588	7.35671
134489.7979	70.87065	23.62545	7.31866
138524.4918	70.59692	23.50619	7.28099
142680.2266	70.32979	23.38812	7.24369
146960.6334	70.06945	23.27124	7.20676
151369.4524	69.81608	23.15555	7.1702
155910.536	69.56983	23.04106	7.13402
160587.852	69.33086	22.92778	7.09821
165405.4876	69.09934	22.81573	7.06279
170367.6522	68.87538	22.70492	7.02774
175478.6818	68.65911	22.59537	6.99309
180743.0423	68.45062	22.48712	6.95883
186165.3336	68.25002	22.38018	6.92497
191750.2936	68.05735	22.27459	6.89152
197502.8024	67.87267	22.17038	6.8585
203427.8865	67.69601	22.06759	6.8259
209530.7231	67.52736	21.96626	6.79374

215816.6448	67.3667	21.86643	6.76204
222291.1441	67.214	21.76815	6.73081
228959.8784	67.0692	21.67147	6.70005
235828.6748	66.9322	21.57644	6.6698
242903.535	66.8029	21.48311	6.64005
250190.6411	66.68117	21.39155	6.61084
257696.3603	66.56687	21.30179	6.58217
265427.2511	66.45981	21.21391	6.55406
265427.2511	66.45981	21.21391	6.55406