

98 AGARD LS 195 Streamline Curvature Calculation

Table TB_MinPressRatio (real NcorrPMap) {

```
NcorrMap= { 0.010000000 0.025000000 0.050000001 0.075000003 0.100000001
            0.150000006 0.200000003 0.300000012 0.400000006 0.500000000
            0.600000024 0.699999988 0.800000012 0.899999976 1.000000000
            1.100000024 1.200000048 }
MinPqPMap= { 0.999989867 0.999936700 0.999746859 0.999430478 0.998987556
            0.997721970 0.995950103 0.990887761 0.983800471 0.974688292
            0.963551104 0.950465024 0.935885906 0.919889867 0.902476788
            0.883646786 0.863399744 }
```

}

Table TB_MaxPressRatio (real NcorrMap) {

```
NcorrMap= { 0.010000000 0.025000000 0.050000001 0.075000003 0.100000001
            0.150000006 0.200000003 0.300000012 0.400000006 0.500000000
            0.600000024 0.699999988 0.800000012 0.899999976 1.000000000
            1.100000024 1.200000048 }
MaxPqPMap= { 1.022931457 1.027044296 1.037711859 1.053145409 1.073344946
            1.128042340 1.201803923 1.406519771 1.687492371 2.044721842
            2.478208065 2.901113272 3.221788883 3.495164871 3.721241474
            3.900018692 4.031496048 }
```

}

Table TB_MassFlow (real NCorrMap,real BetaMap) {

```
NcorrMap= 0.010000000 {
BetaMap= { 0.000000000 0.020408163 0.040816326 0.061224490 0.081632651
            0.102040820 0.122448981 0.142857149 0.163265303 0.183673471
            0.204081640 0.224489793 0.244897962 0.265306115 0.285714298
            0.306122452 0.326530606 0.346938789 0.367346942 0.387755096
            0.408163279 0.428571433 0.448979586 0.469387770 0.489795923
            0.510204077 0.530612230 0.551020384 0.571428597 0.591836751
            0.612244904 0.632653058 0.653061211 0.673469365 0.693877578
            0.714285731 0.734693885 0.755102038 0.775510192 0.795918345
            0.816326559 0.836734712 0.857142866 0.877551019 0.897959173
            0.918367326 0.938775539 0.959183693 0.979591846 1.000000000 }
WcorrMap= { 1.412520051 14.31781673 23.75601959 30.69020844 35.89085007
            40.19200134 44.89599991 49.37599945 52.93119812 57.06413651
            60.94054794 64.41459656 67.65905762 70.85755157 73.99587250
            77.07640839 80.08090210 83.00693512 85.80592346 88.47598267
            91.02296448 93.42433929 95.63295746 97.77275848 99.8551941
            101.8891068 103.8679276 105.7743835 107.6247330 109.4249649
            111.1813278 112.8944016 114.5632629 116.1922226 117.7889404
            119.3586197 120.9040298 122.4254303 123.9116135 125.4111099
            126.9251404 128.4607849 130.0105438 131.5768890 133.1363373
            134.6857605 136.2188568 137.7336273 139.2079468 140.6690826 }
```

}

NcorrMap= 0.025000000 {

```
BetaMap= *;  
WcorrMap={ 2.568218231 14.50288200 24.48032951 31.61848259 37.61826324  
42.95894623 47.76288986 52.16774368 56.41365814 60.70440292  
64.50002289 67.99973297 71.41045380 74.77787018 78.09602356  
81.33597565 84.42395020 87.33405304 90.02076721 92.53457642  
94.90373230 97.21031952 99.4791107 101.7864761 104.0555038  
106.2541809 108.3886185 110.4516068 112.4159470 114.3551788  
116.2771530 118.1792450 120.0457840 121.8735886 123.6395187  
125.3590088 127.0118713 128.7499084 130.5554047 132.3092957  
133.9799194 135.5208130 137.1686096 138.8498383 140.5222626  
142.0381317 143.4569702 145.0775909 146.7546387 148.4679718 }
```

```
}
```

```
NcorrMap= 0.050000001 {
```

```
BetaMap= *;
```

```
WcorrMap={ 2.760834694 17.78491211 27.60834694 35.82089996 42.92147064  
49.06377411 54.58139038 59.59147644 64.16146851 68.35238647  
72.30905151 76.09137726 79.71791840 83.27326202 86.77724457  
90.22634888 93.67095184 96.66909027 99.4082642 102.0505600  
104.7459183 107.4301300 110.0863113 112.7073135 115.3439331  
117.8784409 120.2885056 122.6114120 124.9621124 127.2812653  
129.5251617 131.7079010 134.0072021 136.3421783 138.5679321  
140.6539459 142.7797852 144.9767151 147.1457825 149.2164459  
151.3276672 153.5687408 155.7551117 157.7264709 159.5582123  
161.3900604 163.2257690 165.0370636 166.8482971 168.7794647 }
```

```
}
```

```
NcorrMap= 0.075000003 {
```

```
BetaMap= *;
```

```
WcorrMap={ 1.797752857 21.05938911 32.61637115 41.65045929 49.13343430  
55.69974899 61.57909775 67.00157166 72.20094299 77.01042938  
81.42459106 85.51161194 89.30930328 92.81455994 96.20867920  
99.6561279 103.1787262 106.6665497 110.1197815 113.5707016  
116.8988495 120.1153793 123.3228683 126.6457138 129.8812103  
133.0225830 136.0831604 139.0650024 141.9397736 144.7761383  
147.6268158 150.4440765 153.1837921 155.8421173 158.3973083  
160.9666443 163.5183563 166.0048065 168.4039307 170.8714600  
173.2511139 175.4050140 177.5962830 180.0292358 182.3102875  
184.1690521 186.1365967 188.2219391 190.2911682 192.2653503 }
```

```
}
```

```
NcorrMap= 0.100000001 {
```

```
BetaMap= *;
```

```
WcorrMap={ 0.086705290 23.56340218 38.15097809 47.41843033 54.73608017  
61.40010452 67.73490906 73.74070740 79.36895752 84.48649597  
89.42938232 94.18196869 98.54848480 102.8892441 107.3371429  
111.8530045 116.3123245 120.3442154 124.4312744 128.5870209  
132.5193176 136.3729401 140.2140045 143.9753265 147.6443176 }
```

```
151.4462585 154.9765625 158.0806580 160.9776306 163.9246368
167.0092010 170.2095795 173.4557495 176.5997925 179.6233368
182.4936981 185.3016663 188.0621490 190.7710114 193.4151154
196.0021362 198.6489868 201.3092957 203.8403473 206.2413177
208.5401306 210.7490082 212.9131165 215.0833893 217.1819153 }
}
NcorrMap= 0.150000006{
BetaMap= *;
WcorrMap= {-0.065388456 29.35691452 45.37850952 56.78046799 66.67730713
75.85356140 83.80314636 91.62779236 99.0864487 105.6932678
111.6873474 117.3949966 123.1872482 129.2247620 135.2332153
140.7920532 146.0037994 151.3837280 156.7363892 161.6224060
167.0319519 171.9708862 176.5161743 180.9327087 185.4206238
189.7343140 193.8475800 197.8150330 201.6791840 205.4741211
209.2756500 213.0848083 216.7866211 220.2010651 223.3911133
226.6609955 229.9768677 233.2200317 236.3419952 239.3232117
242.1677856 244.9209137 247.9411011 250.9084930 253.8150024
256.6798401 259.5663757 261.8630676 264.0341187 266.5272827 }
}
NcorrMap= 0.200000003{
BetaMap= *;
WcorrMap= {-0.062830679 34.32546616 54.04592133 68.14436340 80.10016632
90.82399750 100.4809265 109.9481125 118.2107086 125.9037476
133.7367554 141.6256104 148.8314514 155.6006012 161.8411560
168.4196014 174.9389038 180.7741241 186.9265747 193.1326904
199.2537231 204.8775024 210.0216827 215.2631073 220.3522034
224.9619751 229.0116577 233.0755768 237.6114197 241.7693176
245.3293457 249.0874481 253.2158813 257.2393188 260.7243652
263.8836670 267.3952332 270.9438171 273.7912598 276.7999573
280.2350464 283.5708618 286.2268982 289.0979309 291.6320801
294.1017761 296.6801758 298.7501831 301.0400391 303.4299011 }
}
NcorrMap= 0.300000012{
BetaMap= *;
WcorrMap= { 0.158732399 44.09553528 70.48980713 89.93949127 107.8524170
122.4685440 134.3843231 146.1291199 157.4592285 167.4804382
177.2116394 186.4209747 195.4409485 204.2368011 212.3539276
220.3277740 227.9898682 235.2173309 242.2472992 249.0444794
255.2830353 261.8098450 267.8420105 273.3585815 278.7908020
284.2814026 288.8534241 293.5690002 298.2229614 302.4843750
308.0488586 311.5523987 315.9512634 319.8738403 323.3023376
326.4555664 329.3995972 332.0794983 334.7200012 337.4750366
340.0339355 342.9081116 344.7397766 347.5512390 350.5168152
352.9340515 354.9274902 356.7926636 358.6896667 360.4813843 }
}
```

```
NcorrMap= 0.400000006 {  
  BetaMap= *;  
  WcorrMap={ 0.158740535 56.97377014 92.06982422 116.0592880 136.5856781  
    153.8014984 168.3326111 182.4304199 196.0548706 208.4319000  
    219.5358429 230.2569275 240.1056366 248.9978333 257.6838684  
    265.9123840 273.3374329 280.5232849 287.4630432 294.2072754  
    300.5446472 306.7127380 312.4341736 317.8219910 323.0525513  
    328.0108337 332.7765198 336.9773254 340.7366333 344.4983826  
    348.2704468 351.8430176 355.1841125 358.3105774 361.1513977  
    363.6897888 366.0255127 368.2442322 370.3692322 372.3862610  
    374.2690735 376.0465393 377.7768860 379.5130310 381.2185059  
    382.8114929 384.3241882 385.8177795 387.3107300 388.8036804 }  
}
```

```
NcorrMap= 0.500000000 {  
  BetaMap= *;  
  WcorrMap={ 0.158219486 72.14965820 112.8664474 143.2666016 165.6727448  
    185.6484833 202.8061218 218.5637360 232.8845673 245.7437592  
    257.4731445 268.0972290 278.0090027 287.3743286 296.2135620  
    304.3999329 311.9916992 319.1032104 325.4273376 331.1598206  
    336.6738281 341.9402161 346.8222656 351.2524414 355.2697754  
    358.9520264 362.3414917 365.4750366 368.3928833 371.1156006  
    373.6414795 376.0067139 378.2805176 380.4367371 382.2919312  
    383.9590454 385.6306152 387.1463013 388.5159912 389.8241272  
    391.1337585 392.3615723 393.4265137 394.3555908 395.2451172  
    396.1197205 396.8062134 397.4240723 397.9834290 398.5101318 }  
}
```

```
NcorrMap= 0.600000024 {  
  BetaMap= *;  
  WcorrMap={ 0.380309224 84.71983337 136.8516235 169.1752930 191.7366028  
    211.6442261 230.3316803 246.6348877 260.6279602 273.2561646  
    285.0673218 295.9869080 305.8192444 314.4884644 322.2954712  
    329.6566772 336.6154175 343.0051575 348.7558594 353.9200134  
    358.5159912 362.5331726 366.0869141 369.2967834 372.1823425  
    374.7379456 377.0408020 379.1755676 381.1180115 382.8499451  
    384.5631714 386.3248901 387.8024597 389.1094360 390.1937256  
    391.3891602 392.3899841 393.3504028 394.3375854 395.1348572  
    395.9761047 396.6474304 397.3256226 397.9298706 398.3855286  
    398.7385559 399.1293335 399.4842529 399.7795105 400.0736694 }  
}
```

```
NcorrMap= 0.699999988 {  
  BetaMap= *;  
  WcorrMap={ -0.070887573 96.32466125 152.6673889 187.4682922 212.4918060  
    234.1051636 252.6677094 268.6024170 282.7326050 295.4106750  
    306.5821838 316.4219666 325.3489685 333.4993591 340.8096619  
    347.2996521 352.9808350 357.9305420 362.3053284 366.1766968
```

```

369.6025696 372.6749878 375.4218750 377.8495178 380.0172424
382.0291748 383.9324646 385.6588745 387.1517944 388.4473267
389.6036682 390.6257019 391.5241394 392.3390198 393.0771790
393.7600098 394.3987732 395.0044250 395.4917908 395.9183960
396.3884583 396.8124695 397.1410522 397.4481201 397.7561646
398.0390930 398.2092590 398.3581238 398.5069275 398.6557617 }
}
NcorrMap= 0.800000012{
BetaMap= *;
WcorrMap={ -0.200736061 103.4999237 163.2469177 200.1250458 225.6058807
246.6526794 264.6111145 279.9664307 293.3421326 305.1726074
315.6635742 324.9627075 333.2048645 340.5037537 346.9616089
352.6742249 357.7259216 362.1940002 366.1484985 369.6453857
372.7364502 375.4709778 377.8901978 380.0303955 381.9237671
383.5970459 385.0742798 386.3773804 387.5239868 388.5325012
389.4146118 390.1728210 390.8227539 391.4050903 391.9777832
392.5321045 392.9984741 393.3913269 393.7335510 394.0053711
394.1744080 394.2732544 394.3993225 394.5723877 394.7376099
394.8489380 394.9399109 395.0308533 395.1217957 395.2127380 }
}
NcorrMap= 0.899999976{
BetaMap= *;
WcorrMap={ -0.007254315 109.0772171 171.0008698 206.2217102 233.2870636
254.5189972 272.2901306 287.6804199 300.7291260 312.2990417
322.5105286 331.3255310 339.0572815 345.9273376 351.8735657
356.8986511 361.2232056 365.0608215 368.4725952 371.4685974
374.0927734 376.4142456 378.4942322 380.3692932 382.0656738
383.6012573 384.9552612 386.1126709 387.0950317 387.9338074
388.6796875 389.3657227 389.9836731 390.5278625 390.9897766
391.3460999 391.5984802 391.8090515 392.0420227 392.2749329
392.4375305 392.5313416 392.5948792 392.6530151 392.7083435
392.7521362 392.7824707 392.8116150 392.8407593 392.8699341 }
}
NcorrMap= 1.000000000{
BetaMap= *;
WcorrMap={ 0.350471705 114.8187103 175.5433655 210.1686707 238.6271362
259.7275696 277.4595337 292.5292664 305.0415344 316.4823303
326.1425476 334.4693298 341.9898682 348.3938599 353.5558777
357.8880005 361.7832031 365.2897949 368.3504028 371.0198364
373.4270020 375.6448364 377.7100830 379.6310425 381.3412781
382.8027344 384.0335693 385.0627136 385.9360657 386.7190552
387.4423218 388.0699768 388.5648193 388.9458008 389.2705994
389.5943298 389.9006958 390.0883789 390.1498718 390.1661987
390.1832581 390.1820068 390.1435852 390.0916748 390.0389709
389.9862366 389.9335022 389.8807678 389.8280334 389.7752991 }

```

```

}
NcorrMap= 1.100000024{
BetaMap= *;
WcorrMap={ 0.347084641 116.7850723 178.5453339 214.8480988 243.5582275
265.6645508 283.8097534 298.0255432 309.6751404 319.9777832
328.8558350 336.6425476 343.4682617 349.2467957 354.1231689
358.3756409 362.1337585 365.4111328 368.2797241 370.8466797
373.1654053 375.2596130 377.1400452 378.7931213 380.2106934
381.4205933 382.4724731 383.4097900 384.2553406 384.9989624
385.6168823 386.1096497 386.5077515 386.8435364 387.1035156
387.2531433 387.3155823 387.3444214 387.3574829 387.3478699
387.3200073 387.2867432 387.2519531 387.2127380 387.1762085
387.1650085 387.1585693 387.1522217 387.1459045 387.1395874 }

```

```

}
NcorrMap= 1.200000048{
BetaMap= *;
WcorrMap={ 0.009832776 120.4408417 182.3622589 218.7109528 247.0467072
269.8609619 288.3538208 301.7345276 312.3394775 321.6209717
329.8021851 336.9861145 343.2746887 348.7690430 353.5516663
357.7104492 361.3083496 364.4465332 367.2486267 369.7487488
371.9352417 373.8410645 375.5153809 376.9711609 378.2365417
379.3763733 380.4209290 381.3574219 382.1730347 382.8634644
383.4275513 383.8663635 384.1780701 384.3605347 384.4491882
384.5003967 384.5289612 384.5339050 384.5260620 384.5143127
384.5031433 384.4825439 384.4557190 384.4876099 384.5494385
384.5867310 384.6218872 384.6570435 384.6921997 384.7273560 }

```

```

}
}

```

```

Table TB_Efficiency (real NCorrMap,real BetaMap) {
NcorrMap= 0.010000000{
BetaMap= { 0.000000000 0.020408163 0.040816326 0.061224490 0.081632651
0.102040820 0.122448981 0.142857149 0.163265303 0.183673471
0.204081640 0.224489793 0.244897962 0.265306115 0.285714298
0.306122452 0.326530606 0.346938789 0.367346942 0.387755096
0.408163279 0.428571433 0.448979586 0.469387770 0.489795923
0.510204077 0.530612230 0.551020384 0.571428597 0.591836751
0.612244904 0.632653058 0.653061211 0.673469365 0.693877578
0.714285731 0.734693885 0.755102038 0.775510192 0.795918345
0.816326559 0.836734712 0.857142866 0.877551019 0.897959173
0.918367326 0.938775539 0.959183693 0.979591846 1.000000000 }
EffMap = { 4.170734882 0.860327840 0.653935313 0.526293993 0.413780242
0.377861083 0.344186336 0.332775027 0.304026306 0.289851993
0.277065039 0.263934553 0.242756128 0.221349373 0.205851555
0.200794280 0.196723610 0.193035126 0.189388976 0.185815766

```

```
0.182298779 0.178963780 0.175929382 0.172853962 0.169703230
0.166542709 0.163586110 0.161455169 0.159304440 0.156721503
0.153885961 0.150752604 0.147909507 0.145345017 0.143079951
0.141055956 0.139278159 0.137594640 0.135973945 0.134415194
0.132914156 0.131467387 0.130072162 0.128725410 0.127424657
0.126166910 0.124949597 0.123770155 0.122626424 0.121515855 }
}
NcorrMap= 0.025000000 {
BetaMap= *;
EffMap = { 2.886961937 0.860327840 0.843614876 0.787840962 0.697001755
0.656110108 0.613377035 0.592092872 0.568371594 0.550020576
0.525991619 0.506326973 0.484723121 0.463538289 0.443306625
0.431669086 0.422576576 0.413928747 0.405095965 0.396267235
0.387350380 0.379139602 0.371772617 0.365854323 0.360518396
0.355505437 0.350525886 0.345225245 0.338861376 0.333071381
0.327977002 0.323473603 0.319399625 0.315758497 0.312051207
0.308303028 0.304437220 0.300864518 0.297531515 0.294162780
0.290707469 0.287038654 0.283889651 0.281099975 0.278557211
0.276125401 0.273812711 0.271794826 0.269796759 0.267809272 }
}
NcorrMap= 0.050000001 {
BetaMap= *;
EffMap = { 2.360655785 0.688524604 0.885245919 0.872404397 0.877493978
0.861339211 0.840168297 0.818566501 0.797337472 0.776866496
0.756877422 0.737324893 0.718194664 0.699126840 0.680907369
0.663823366 0.647520840 0.634685338 0.623537838 0.612844586
0.601980805 0.589947224 0.577642679 0.565897644 0.556159377
0.547579110 0.539724708 0.532359719 0.525739491 0.519039810
0.511789441 0.504242837 0.496663243 0.489578247 0.483517408
0.478501201 0.473247051 0.467677206 0.462679356 0.458698988
0.454954624 0.450924516 0.446792603 0.442519903 0.438354731
0.434689462 0.431060821 0.426818103 0.422064394 0.417674094 }
}
NcorrMap= 0.075000003 {
BetaMap= *;
EffMap = { 2.983606577 0.163934425 0.754098356 0.850536883 0.888195693
0.891592503 0.890017211 0.882384241 0.869206250 0.850470066
0.829475045 0.809160829 0.791512430 0.773074925 0.755306602
0.739432931 0.724866271 0.709466338 0.695945501 0.686642408
0.677346349 0.667176902 0.657591462 0.649601638 0.642729223
0.636386335 0.630064249 0.623814106 0.619045317 0.613982916
0.607460141 0.600681007 0.594491482 0.588680983 0.583005726
0.578301191 0.573534310 0.567767680 0.560660779 0.554866374
0.549460471 0.543898344 0.538585842 0.533920407 0.529413700
0.524744511 0.520620942 0.516444385 0.511585951 0.505573809 }
```

```
}
NcorrMap= 0.100000001{
BetaMap= *;
EffMap = { 4.196721077 -0.327868849 0.557377040 0.809586823 0.876867115
0.893142462 0.897089183 0.894775033 0.887559414 0.876007974
0.857355297 0.836614966 0.814712763 0.799407303 0.788682044
0.778313160 0.766597927 0.752215028 0.741614819 0.734076738
0.724269509 0.716330349 0.710720837 0.705266535 0.698546946
0.690201938 0.682226777 0.675496578 0.664059758 0.654435992
0.649269342 0.644676864 0.637362361 0.632090628 0.627473116
0.621658742 0.616298795 0.610773206 0.604392886 0.597980499
0.592974842 0.589595377 0.587114513 0.584561884 0.581038773
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0.832653284 0.825200379 0.816257298 0.808049262 0.803461790
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0.722699106 0.716222703 0.709022045 0.701844275 0.695231974
0.689614058 0.684852660 0.680625558 0.675739586 0.671022236
0.665622890 0.659179032 0.654082596 0.647961617 0.643338084
0.640895009 0.636360049 0.629826844 0.624248505 0.620435059 }
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0.890023947 0.884611130 0.878928840 0.871976197 0.866780519
0.860662639 0.853249729 0.845423877 0.835932374 0.827515244
0.819847107 0.812432051 0.805293858 0.798408926 0.790750444
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0.682937920 0.679739535 0.675162077 0.669592202 0.664961040
0.661076784 0.657091618 0.652506411 0.646697581 0.642645955 }
}
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0.897975981 0.896321058 0.892106652 0.885736167 0.878347099
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}
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0.887057066 0.883277118 0.878697276 0.873368800 0.868952334
0.864521265 0.860319555 0.856402814 0.852073789 0.848327100
0.844338596 0.839892566 0.835500062 0.831534505 0.828013182
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0.806217253 0.803461194 0.800788641 0.797660887 0.794892073
0.792464495 0.790106535 0.787434638 0.784520447 0.781730413
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0.897183180 0.894029737 0.890607715 0.887289762 0.884248197
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0.878558695 0.888195515 0.894698560 0.898933887 0.901605844
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0.887317061 0.886236846 0.885197043 0.884187222 0.883255124
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}
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0.893360734 0.892480791 0.891639113 0.890822172 0.889892817
0.889097214 0.888325095 0.887745082 0.887362003 0.887162924 }
}
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0.907887220 0.907530904 0.907076597 0.906534076 0.906188607
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}
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0.718590617 0.754828691 0.782560229 0.804249465 0.821327031
0.835394681 0.847268820 0.857104480 0.865150750 0.871740937
0.877238393 0.882042766 0.886362255 0.890165925 0.893439412
0.896237075 0.898582280 0.900475919 0.901956141 0.903148115
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0.906980813 0.907235384 0.907416284 0.907498777 0.907564580
0.907672584 0.907766938 0.907820404 0.907819092 0.907812357
0.907924652 0.908236980 0.908741772 0.909426332 0.910278797 }
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}
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