Table II. *Logarithms of the Values of the Denominator of the Fraction* 307(*√d*-0·1)/*√s*-L*√s+*1·6 *for every value of the Slope* s.

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| ***3.*** | **Log. of**  **∖∕\*-L√f÷l,6** | ***3.*** | **Log. of**  ***∖l3 —* L *sj*a +1 ∙6** | **«.** | **Log. of**  ***•Js—1·* V\*+Ι'6** | ***3.*** | **Log. of**  ***•J3—* L ¼∕∕+ Γ6** | ***3.*** | **Log. of ∖∕\*"- L** Vj+ **Γ6** | **\*.** | **Log. of √∕-L *tJ*\*+ κ** |
| **1,0**  **1,1**  **1,2**  **1.3**  **13**  **1,5**  **1,0**  **1.7**  **1.8**  **1.9**  **2,0**  **2,1**  **2,2**  **2.3**  **2.4**  **2.5**  **2.6**  **2.7**  **2.8**  **2.9**  **3,0**  **3.1**  **3.2**  **3.3**  **3.4**  **3.5**  **3.6**  **3.7**  **3.8**  **3.9**  **4,0**  **4.1**  **4.2**  **4.3**  **4.4**  **4.5**  **4.6**  **4.7**  **4.8**  **4.9**  **5,0**  **5.1**  **5.2**  **5.3**  **5.4**  **5.5**  **5.6**  **5.7**  **5.8**  **5.9**  **6,0**  **6,1**  **6,2**  **6.3**  **6.4**  **6.5**  **6.6**  **6.7**  **6.8**  **6.9**  **7,0**  **7.1**  **7.2** | **9-71784 9’74210 9'76388 9'78376 9’80202 9\*81889 9-83461 984930 9-86314 9-87622 9-88857 9-90031 9\*91153 9'92227 9'93247 9'94231 9-95173 9'96085 9'96962 9'97818 9'98632 9∙99427 0∙00200 0'00945 001669 0-02373 0’03064 003733 004383 005015 O-O5638 0\*06245 0-06839 007412 0-07978 0-08533 0-09081 0-09615 0-10131 0'10644 O∙11147 011635 0-12118 0-12595 O∙13O6l 013519 013970 014410 0 14844 0-15274 0 15697 016113 0-16522 0Ί6927 0 17322 017713 0'18099 0Ί8477 0'18854 0'19229 0'19584 0'19946 0'20298** | *Ι,3*  **7.4**  **7.5**  **7.6**  **7.7**  **7.8**  **7.9**  **8,0**  **8,1**  **8,2**  **8.3**  **8.4**  **8.5**  **8.6**  **8.7**  **8.8**  **8.9**  **9,0**  **9.1**  **9.2**  **9.3**  **9.4**  **9.5**  **9.6**  **9.7**  **9.8**  **9.9**  **10,** | **0'20651 0'20997 0'21336 0-21674 0∙22009 0\*22335 0∙22663 0-22982 0-23297 0-23611 0-23923 0-24229 0-24532 0-24832 0-25128 0-25422 0-25709 0-25996 0-26281 0-26560 0-26839 0∙27H6 0-27387 0-27656 0-27921 0-28186 0-28450 0-28709**  **0-31170 0-33425 0-35488 0-37420 0\*39235 0-40926 0-42521 0-44028 0-45439 0-46776 0-48044 0-49262 0-50433 0-51548 0’52621 0-53656 0-54654 055606 0-56526 0-57415 0-58263 0’59095 0'59901 0-60692 0-61448 0-62180 0-62900 0-63599 0-64276 0-64933 0-65571 0-66200 0-66811 0-67413** | **45**  **46**  **47**  **48**  **49**  **50**  **51**  **52**  **53**  **54**  **55**  **56**  **57**  **58**  **59**  **60**  **61**  **62**  **63**  **64**  **65**  **66**  **«7**  **68**  **69**  **70**  **71**  **72**  **73**  **74**  **75**  **76**  **77**  **78**  **79**  **80**  **81**  **82**  **83**  **84**  **85**  **86**  **87**  **88**  **89**  **90**  **91**  **92**  **93**  **94**  **95**  **96**  **97**  **98**  **99**  **100** | **0-67997 0-68574 0-69135 0-69688 0-70226 0∙70749 0-71265 0’71767 0-72263 O∙72746 0-73223 0-73695 0 74155 0-74601 0’75043 0’75481 0-75906 0-76328 0-76745 O-77I5I 0-77546 O-77945 0-78333 0-78718 079092 O∙79463 0-79824 0-80182 0-80536 0-80882 0-81231 0-81571 0-81908 0-82236 0-82562 0-82885 0-83206 0-83525 0-83835 0 84142 0-84442 0-84739 0 85034 0-85327 0-85618 0-85908 0-86189 0-86463 0-86741 O∙87O17 0-87286 0-87552 0 87818 0-88076 0-88338 0∙ 8859.3**  **0-91014 0-93212 0-95236 0-97109 0-98843 1 00466** | **170**  **180**  **190**  **200**  **210**  **220**  **230**  **240**  **250**  **260**  **270**  **280**  **290**  **300**  **310**  **320**  **330**  **340**  **350**  **360**  **37θ**  **380**  **390**  **400**  **410**  **420**  **430**  **440**  **450**  **460**  **47O**  **480**  **490**  **500**  **510**  **520**  **530**  **540**  **550**  **560**  **57O**  **580**  **590**  **600**  **610**  **620**  **630**  **640**  **650**  **660**  **670**  **680**  **690**  **700**  **710**  **72O**  **730**  **740**  **750**  **760**  **770**  **780**  **790** | **1-01983 1-03410 1-04751 1-06026 I∙O7237 1-08390 1-09489 110542 1-11553 1-12523 1 13453 1-14345 1'15204 1-16035 1'16838 1-17612 1-18363 1-19092 1-19803 1-20490 1\*21158 1-21806 1'22435 1-23048 1-23647 1-24232 1'24805 1'25360 1-25903 1 -26433 1 26951 1-27461 127957 1'28445 1'28923 1-29391 1'29851 1-30300 Γ30740 1-31172 1-31597 1-32015 1\*32426 1-32830 1-33226 1-33614 1'33997 1-34373 1-34743 1-35108 1-35468 1-35823 1-36170 136513 1-36851 1-37185 1-37513 1-37839 1-38157 1-38471 1-38782 1-39089 1-39391** | **800**  **810**  **820**  **830**  **840**  **850**  **860**  **870**  **880**  **890**  **900**  **910**  **920**  **930**  **940**  **950**  **960**  **97θ**  **980**  **990**  **1000** | **1-39690 1-39985 1-40277 1'40564 1-40847 1-41128 1-41408 1-41683 1-41953 1-42220 1-42487 1-42746 Γ43005 1-43263 1-43515 1 '43764 l∙440ll 1-44254 1-44498 1-44737 1-44976**  **1-47223 1-49269 1\*51148 1-52885 1-54497 1-56014 i∙57416 1-58747 1-60004 1-61195 1-62325 1'63403 1 -64432 1 65414 1-66358 1-67261 1-68133 1-68971 1-69780 1-70558 1-71313 1-72042 1-72750 1 73435 1-74099 1-74746 1∙75373 1-75984 1-76578 1-77159 1-77725 1 -78277 1-78814 1’79339 1-77851 1-80352 1-80840 1-81321 1-81790 1-82249 1-82699** | **5200 5300 5400 5500 5600 57OO 5800 5900 6000 6100 6200 6300 6400 6500 6600 6700 6800 6900 7000 7100 7200 7300 7400 7500 7600 7700 7800 7900 8000 8100 8200 8300 8400 8500 8600 8700 8800 8900 9000 9100 9200 9300 9400 9500 9600 97OO 9800 9900 10000 11000 12000 13000 14000 15000 16000 I7OOO 18000 19000 20000 21000 22000 23000 24000** | **1-83142 1-83575 1-84002 1-84421 1-84833 1-85237 1-85634 1-86022 l∙864O4 1-86778 1-87146 J-87507 1-87863 1-88213 1-88558 1-88898 1 89233 1-89564- 1-89891 1-90214 1-90532 l∙9O845 1-91154 1-91458 1-91757 1-92052 l-92344 1-92632 1-92916 I-93197 1-93475 1 ∙93749 1-94020 1-94287 1-94551 1-94811 1 -95069 1-95324 1-95576 1-95826 1-96073 1-96317 1-96559 1-96797 1-97033 1-97267 1-97497 1-97726**  **1- 97952**  **2- 00099 2-02056 203855 2-05518 2-07065 208512 2-09869 2-11148 212357 2-13503 2-14594 2-15633 2-16624 2i7573** |
| **1100 1200 1300 1400 1500 1600 i7OO 1800 1900 2000 2100 2200 2300 2400 2500 2600 2700 2800 2900 3000 3100 3200 3300 3400 3500 3600 3700 3800 3900 4000 4100 4200 4300 4400 4500 4600 47OO 4800 4900 5000 5100** |
| **11**  **12**  **13**  **14**  **15**  **16**  **17**  **18**  **19**  **20**  **21**  **22**  **23**  **24**  **25**  **26**  **27**  **28**  **29**  **30**  **31**  **32**  **33**  **34**  **35**  **36**  **37**  **38**  **39**  **40**  **41**  **42**  **43**  **44** |
| **110**  **120**  **130**  **140**  **150**  **160** |

Table I. consists of three columns. *Column* 1, entitled *d,* contains the hydraulic mean depths of any conduit in inches. This is set down for every tenth of an inch in the first ten inches, that the answers may be more accurately obtained for pipes, the mean depth of which seldom ex­ceeds three or four inches. The column is continued to 100 inches, which is fully equal to the hydraulic mean depth of any canal.

*Column* 2 contains the logarithms of the values of √d — 0∙1, multiplied by 307 ; that is, the logarithm of the fraction 307(*√d*-0·1)/*√s*-L*√s+*1·6 in the article River.

*column* 3 contains the product of the values of √d*—* 0∙1 multiplied by 0·3.