

L13-BR30D-11W-2700K. IES

IESNA:LM-63-2002

[TEST]

[TESTLAB]

[TESTDATE]

[ISSUEDATE] 2021-12-21 10:57:33

[NEARFIELD]

[LAMPPOSITION] 0,0

[OTHER] EVERFINE GO-2000B\_V1 SYSTEM

[MANUFAC]

[OTHER]

[OTHER]	Gamma(deg)	Fz(1m)	Ft(1m)	%Lum	%Lamp
[OTHER]	0- 10	26.37	26.37	3.04	3.04
[OTHER]	10- 20	74.89	101.27	11.68	11.68
[OTHER]	20- 30	111.61	212.88	24.54	24.54
[OTHER]	30- 40	131.53	344.40	39.71	39.71
[OTHER]	40- 50	133.32	477.72	55.08	55.08
[OTHER]	50- 60	119.52	597.24	68.86	68.86
[OTHER]	60- 70	95.55	692.79	79.87	79.87
[OTHER]	70- 80	68.25	761.04	87.74	87.74
[OTHER]	80- 90	43.55	804.59	92.76	92.76
[OTHER]	90-100	25.10	829.69	95.66	95.66
[OTHER]	100-110	14.04	843.73	97.28	97.28
[OTHER]	110-120	8.62	852.35	98.27	98.27
[OTHER]	120-130	5.69	858.04	98.93	98.93
[OTHER]	130-140	3.80	861.85	99.37	99.37
[OTHER]	140-150	2.54	864.39	99.66	99.66
[OTHER]	150-160	1.65	866.04	99.85	99.85
[OTHER]	160-170	0.97	867.01	99.96	99.96
[OTHER]	170-180	0.33	867.34	100.00	100.00

[OTHER]

TILT=NONE

1 867.34 1 181 17 1 2 -0.500 -0.500 0.000

1.000 1 10.5018

0.0	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0
9.0								
10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0	
18.0	19.0							
20.0	21.0	22.0	23.0	24.0	25.0	26.0	27.0	
28.0	29.0							
30.0	31.0	32.0	33.0	34.0	35.0	36.0	37.0	
38.0	39.0							

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40.0	41.0	42.0	43.0	44.0	45.0	46.0	47.0
48.0	49.0						
50.0	51.0	52.0	53.0	54.0	55.0	56.0	57.0
58.0	59.0						
60.0	61.0	62.0	63.0	64.0	65.0	66.0	67.0
68.0	69.0						
70.0	71.0	72.0	73.0	74.0	75.0	76.0	77.0
78.0	79.0						
80.0	81.0	82.0	83.0	84.0	85.0	86.0	87.0
88.0	89.0						
90.0	91.0	92.0	93.0	94.0	95.0	96.0	97.0
98.0	99.0						
100.0	101.0	102.0	103.0	104.0	105.0	106.0	107.0
108.0	109.0						
110.0	111.0	112.0	113.0	114.0	115.0	116.0	117.0
118.0	119.0						
120.0	121.0	122.0	123.0	124.0	125.0	126.0	127.0
128.0	129.0						
130.0	131.0	132.0	133.0	134.0	135.0	136.0	137.0
138.0	139.0						
140.0	141.0	142.0	143.0	144.0	145.0	146.0	147.0
148.0	149.0						
150.0	151.0	152.0	153.0	154.0	155.0	156.0	157.0
158.0	159.0						
160.0	161.0	162.0	163.0	164.0	165.0	166.0	167.0
168.0	169.0						
170.0	171.0	172.0	173.0	174.0	175.0	176.0	177.0
178.0	179.0						
180.0							
0.0	22.5	45.0	67.5	90.0	112.5	135.0	157.5
180.0	202.5						
225.0	247.5	270.0	292.5	315.0	337.5	360.0	
279.38	278.69	278.15	277.63	277.13	275.94	275.32	274.26
273.21	271.63						
270.36	268.77	267.45	265.72	263.56	261.36	259.33	257.57
254.94	252.57						
249.83	247.46	244.45	241.94	239.15	236.15	232.81	229.68
226.93	223.69						
220.21	216.77	213.23	209.87	206.47	202.52	198.86	195.26
191.43	187.64						
183.82	179.67	175.8	172.14	168.11	164.26	160.22	156.24

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152.39 148.52  
144.36 140.45 136.77 132.76 128.99 124.99 121.22 117.48  
113.58 109.87  
106.3 102.6 99.003 95.621 92.242 88.619 85.373 81.941  
78.751 75.736  
72.723 69.608 66.616 63.877 61.029 58.275 55.608 53.067  
50.53 48.168  
45.769 43.544 41.318 39.194 37.225 35.218 33.42 31.536  
29.899 28.216  
26.687 25.19 23.804 22.396 21.181 19.97 18.87 17.802 16.858  
15.896  
15.042 14.243 13.528 12.856 12.227 11.654 11.143 10.648  
10.216 9.8157  
9.4473 9.1038 8.7827 8.484 8.2176 7.9466 7.6952 7.4545  
7.2256 7.0115  
6.8099 6.6036 6.4217 6.2353 6.0733 5.8945 5.7449 5.5933  
5.4542 5.3101  
5.1855 5.0636 4.9442 4.8322 4.7203 4.628 4.5286 4.4365  
4.347 4.2648  
4.1805 4.1083 4.0337 3.9665 3.8993 3.8371 3.7798 3.7202  
3.6728 3.6181  
3.5757 3.5385 3.5036 3.459 3.429 3.404 3.3792 3.3568 3.3467  
3.3269  
3.3242 3.3193 3.3168 3.329 3.3341 3.3513 3.3638 3.3886  
3.3987 3.4135  
3.426 3.4311 3.4311 3.4385 3.4459 3.4411 3.4411 3.4484  
3.4608 3.4609  
3.4435  
279.38 278.31 278.25 277.75 277.09 276.11 275.39 274.18  
273.38 272.28  
270.5 269.26 267.72 265.85 264.23 262.12 260.3 258.4 256.2  
253.41  
251.07 248.74 246.29 243.49 240.68 237.8 235.16 231.81  
228.51 225.35  
222.09 218.79 215.5 212.14 208.16 204.94 200.83 197.39  
193.44 189.97  
185.9 182.07 178.25 174.19 170.5 166.63 162.51 158.74  
154.81 150.7  
146.75 142.8 138.92 134.91 130.89 127.04 123.36 119.52  
115.67 111.94  
108.24 104.43 100.86 97.383 93.825 90.305 87.001 83.532

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80.36 77.08  
73.812 70.864 67.789 64.888 62.041 59.321 56.589 54.047  
51.445 49.047  
46.656 44.386 42.114 39.977 38.033 35.983 34.096 32.267  
30.524 28.834  
27.265 25.734 24.312 22.945 21.654 20.439 19.313 18.225  
17.216 16.294  
15.424 14.608 13.843 13.137 12.479 11.904 11.358 10.866  
10.409 9.9946  
9.6044 9.2465 8.9159 8.6102 8.3267 8.046 7.7948 7.5489  
7.3298 7.0914  
6.8806 6.6694 6.4878 6.294 6.1249 5.9607 5.7918 5.6401  
5.491 5.3542  
5.2126 5.0956 4.9643 4.8524 4.743 4.6337 4.5367 4.4373  
4.3502 4.2583  
4.1763 4.0992 4.0197 3.9552 3.8856 3.8234 3.7588 3.7017  
3.6544 3.6022  
3.555 3.5128 3.4755 3.4382 3.4036 3.3787 3.3563 3.329  
3.3141 3.2993  
3.2918 3.282 3.2845 3.2919 3.297 3.3144 3.3293 3.3517  
3.3691 3.3865  
3.3989 3.4089 3.4236 3.4212 3.4237 3.4313 3.4486 3.4536  
3.4634 3.4658  
3.4435  
279.38 278.5 278.15 277.38 277.16 276.56 275.66 275.05  
274.34 273  
271.35 270.11 268.9 266.9 265.06 263.25 261.5 259.66 257.43  
255.51  
253.15 250.52 247.66 245.43 242.69 239.48 236.4 233.74  
230.61 227.26  
224.27 220.89 217.73 214.13 210.7 206.99 203.47 199.69  
196.07 192.09  
188.38 184.72 180.63 176.68 172.99 169.01 164.81 161.1  
156.95 153.1  
148.83 144.98 141.16 137.13 133.12 129.3 125.31 121.36  
117.67 113.75  
110.17 106.29 102.74 99.031 95.539 91.752 88.477 84.854  
81.663 78.394  
75.232 72.07 69.151 66.163 63.208 60.504 57.631 55.088  
52.429 50.001  
47.532 45.346 43.042 40.848 38.78 36.745 34.885 32.978

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31.243 29.517  
27.899 26.312 24.888 23.532 22.199 20.968 19.82 18.703  
17.687 16.722  
15.806 14.957 14.175 13.468 12.804 12.179 11.623 11.105  
10.625 10.184  
9.7907 9.4199 9.0665 8.7404 8.4491 8.1778 7.9141 7.6537  
7.4171 7.1907  
6.9717 6.7504 6.5488 6.3571 6.1878 6.0039 5.8371 5.6803  
5.5388 5.3897  
5.2552 5.1209 4.9891 4.8868 4.7602 4.6481 4.5534 4.4491  
4.357 4.2699  
4.1781 4.1033 4.0213 3.9516 3.8819 3.8221 3.7575 3.6953  
3.6479 3.5933  
3.5509 3.5112 3.4714 3.434 3.4017 3.3767 3.3543 3.3319  
3.312 3.3019  
3.2846 3.282 3.2795 3.2794 3.2819 3.2967 3.3067 3.324  
3.3439 3.3588  
3.3787 3.3814 3.3888 3.3962 3.4086 3.4284 3.4384 3.4459  
3.4509 3.4559  
3.4435  
279.38 278.11 277.68 277.68 277.45 276.55 275.89 275.53  
274.65 273.19  
272.34 271.24 269.92 268.41 266.81 264.92 263.16 261.42  
259.2 257.33  
254.7 252.28 250.22 247.69 244.61 241.92 239.53 236.34  
233.65 230.49  
227.23 224.12 220.91 217.31 213.87 210.44 206.84 203.19  
199.59 195.93  
191.79 188.44 184.35 180.67 176.79 172.86 168.91 164.82 161  
157.26  
152.86 148.93 144.99 140.94 137.08 133.02 129.14 125.25  
121.26 117.53  
113.79 109.94 106.25 102.51 98.929 95.447 91.864 88.366  
84.99 81.755  
78.316 75.165 71.999 69.11 66.029 63.209 60.387 57.723  
55.012 52.485  
49.957 47.565 45.208 42.941 40.822 38.675 36.701 34.76  
32.957 31.118  
29.444 27.816 26.275 24.801 23.451 22.122 20.901 19.743  
18.662 17.623  
16.651 15.761 14.929 14.153 13.435 12.789 12.163 11.606

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11.084 10.616  
10.198 9.7808 9.4227 9.0675 8.7566 8.4485 8.1725 7.9017  
7.6531 7.4194  
7.1937 6.965 6.7512 6.5474 6.356 6.1819 6.0006 5.8438  
5.6773 5.5281  
5.3766 5.2496 5.106 4.9841 4.8648 4.7504 4.6385 4.5318  
4.4421 4.3428  
4.2533 4.1712 4.0867 4.0098 3.9303 3.8633 3.806 3.7414  
3.6818 3.6297  
3.5898 3.5401 3.4979 3.4632 3.4384 3.4111 3.3911 3.3688  
3.349 3.3365  
3.3267 3.3242 3.3241 3.3192 3.3193 3.3243 3.3317 3.3392  
3.3566 3.3691  
3.3914 3.4037 3.4013 3.4063 3.4114 3.4262 3.4362 3.4486  
3.456 3.4559  
3.4435  
279.38 281.14 281.25 281.52 281.32 280.45 280.17 279.78  
278.77 277.94  
276.73 275.68 274.12 272.85 271.4 270.27 268.37 266.2  
264.36 262.55  
260.26 257.52 255.35 253.09 250.35 247.87 245.1 242.43  
239.49 236.38  
233.01 229.8 226.78 223.37 220.32 216.67 213.42 209.36  
205.81 202.35  
198.64 194.75 190.71 186.81 183.23 178.9 175.13 171.23 167  
163.18  
159.25 154.89 151.28 147.2 143.12 139 135.05 131.11 127.26  
123.37  
119.3 115.52 111.7 107.93 104.15 100.48 96.959 93.501  
89.956 86.534  
83.074 79.746 76.565 73.417 70.287 67.216 64.319 61.5  
58.565 56.005  
53.372 50.844 48.36 45.937 43.682 41.462 39.341 37.319  
35.308 33.453  
31.585 29.86 28.236 26.646 25.142 23.755 22.374 21.142  
19.882 18.815  
17.745 16.794 15.831 15.003 14.184 13.477 12.785 12.163  
11.599 11.057  
10.592 10.142 9.7324 9.362 9.0091 8.6813 8.388 8.107 7.8335  
7.5653  
7.3223 7.0911 6.8674 6.6512 6.4548 6.2634 6.0794 5.9005

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5.7316 5.5774  
5.4283 5.2819 5.1354 5.0037 4.8818 4.7625 4.6432 4.5364  
4.4394 4.3425  
4.253 4.1636 4.084 4.0071 3.9252 3.8606 3.8034 3.7413  
3.6841 3.6344  
3.5872 3.5451 3.5102 3.4729 3.4383 3.4085 3.3911 3.3737  
3.349 3.3415  
3.3316 3.3267 3.3242 3.3267 3.3317 3.3318 3.3466 3.3491  
3.3567 3.3739  
3.3765 3.3814 3.379 3.3841 3.4015 3.4238 3.4388 3.4611  
3.4785 3.4884  
3.4435  
279.38 280.91 280.81 280.73 280.34 279.72 279.57 278.95  
277.72 277.08  
276.5 275.33 273.82 272.2 271.12 269.56 267.64 265.91  
264.13 262.42  
259.77 257.29 255.34 252.95 250.07 247.46 244.71 242.14  
239.12 236.2  
233.21 229.81 226.62 223.51 220.11 216.57 213.19 209.62  
205.95 202.35  
198.42 194.93 191.19 187 183.04 179.6 175.51 171.69 167.6  
163.53  
159.61 155.63 151.78 147.72 143.74 139.81 135.71 131.87  
127.83 124.06  
120.08 116.46 112.62 108.94 105.06 101.46 97.973 94.293  
90.775 87.313  
83.879 80.499 77.446 74.395 71.225 68.254 65.327 62.343  
59.617 56.845  
54.136 51.711 49.139 46.715 44.415 42.127 40.022 37.93  
35.787 33.936  
32.054 30.337 28.621 26.986 25.476 24.02 22.631 21.31  
20.093 18.978  
17.829 16.88 15.925 15.059 14.263 13.519 12.826 12.204  
11.609 11.074  
10.601 10.155 9.7448 9.3714 9.0206 8.6872 8.3836 8.0933  
7.8294 7.5732  
7.3269 7.0832 6.869 6.6626 6.4488 6.262 6.0854 5.9088  
5.7376 5.5808  
5.429 5.2897 5.1529 5.0259 4.8942 4.7821 4.6653 4.5681  
4.4686 4.3692  
4.2823 4.2026 4.1206 4.041 3.9712 3.9115 3.8444 3.7896

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3. 7349 3. 6851  
3. 6403 3. 5956 3. 5583 3. 5234 3. 4911 3. 4661 3. 4437 3. 4263  
3. 4064 3. 3939  
3. 3815 3. 3789 3. 3715 3. 369 3. 3665 3. 3689 3. 3739 3. 3838  
3. 3888 3. 3962  
3. 4062 3. 4013 3. 3963 3. 3963 3. 4012 3. 4013 3. 4161 3. 4359  
3. 4509 3. 4707  
3. 4435  
279. 38 279. 68 279. 79 279. 88 280. 03 279. 19 279. 26 278 277. 47  
276. 43  
275. 64 274. 84 273. 63 272. 28 271. 23 269. 47 267. 69 266. 04  
264. 47 262. 22  
260. 13 257. 88 255. 49 253. 28 250. 49 248. 26 245. 67 242. 78  
239. 46 236. 41  
233. 24 230. 46 227. 63 224. 08 220. 81 217. 38 213. 73 210. 29  
206. 91 203. 39  
199. 36 195. 9 191. 86 188. 18 184. 14 180. 27 176. 65 172. 96  
168. 98 165. 08  
161. 09 157 153. 43 149. 37 145. 32 141. 41 137. 48 133. 56 129. 91  
125. 79  
122. 03 118. 3 114. 66 110. 97 107. 12 103. 43 99. 879 96. 471  
92. 814 89. 284  
85. 875 82. 65 79. 334 76. 129 73. 128 70. 053 66. 931 64. 041  
61. 282 58. 463  
55. 79 53. 165 50. 607 48. 144 45. 769 43. 458 41. 224 39. 106  
37. 025 34. 997  
33. 1 31. 29 29. 531 27. 892 26. 255 24. 776 23. 335 22. 037 20. 717  
19. 557  
18. 386 17. 423 16. 387 15. 51 14. 635 13. 863 13. 147 12. 471  
11. 853 11. 293  
10. 796 10. 326 9. 9012 9. 5062 9. 1533 8. 8179 8. 5147 8. 2263  
7. 9456 7. 6896  
7. 4441 7. 2056 6. 994 6. 7606 6. 5619 6. 3802 6. 1937 6. 0076  
5. 8509 5. 6918  
5. 5377 5. 3914 5. 2522 5. 1231 5. 0061 4. 8868 4. 7676 4. 6657  
4. 5687 4. 4743  
4. 3897 4. 2978 4. 2157 4. 1341 4. 0718 4. 0022 3. 9327 3. 878  
3. 8233 3. 7712  
3. 724 3. 6793 3. 6395 3. 5998 3. 5676 3. 5402 3. 5129 3. 493  
3. 4707 3. 4582  
3. 4384 3. 4236 3. 4236 3. 4185 3. 4063 3. 4088 3. 4162 3. 4137



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3. 4163 3. 4262  
3. 4361 3. 4387 3. 4511 3. 4583 3. 4484 3. 4385 3. 4361 3. 4362  
3. 4487 3. 4636  
3. 4435  
279. 38 279. 73 279. 38 279. 44 279. 08 278. 81 277. 99 277. 95  
277. 3 276. 29  
275. 68 274. 23 273. 07 272. 19 270. 55 268. 9 267. 56 265. 56  
263. 85 261. 98  
260. 06 257. 95 255. 59 253. 09 250. 4 248. 17 245. 24 242. 66  
239. 37 236. 64  
233. 27 230. 19 227. 3 223. 93 220. 77 217. 09 213. 85 210. 19  
206. 82 202. 93  
199. 41 195. 94 192. 24 188. 15 184. 52 180. 51 176. 8 172. 82  
168. 97 165. 01  
161. 07 157. 14 153. 27 149. 2 145. 3 141. 32 137. 44 133. 65  
129. 75 125. 88  
122. 19 118. 47 114. 54 110. 91 107. 12 103. 66 100. 01 96. 353  
93. 08 89. 457  
85. 994 82. 914 79. 519 76. 426 73. 335 70. 409 67. 408 64. 421  
61. 674 58. 891  
56. 165 53. 595 51. 038 48. 533 46. 174 43. 799 41. 594 39. 479  
37. 338 35. 389  
33. 452 31. 638 29. 847 28. 128 26. 575 25. 042 23. 623 22. 208  
20. 921 19. 752  
18. 588 17. 562 16. 537 15. 636 14. 815 14. 006 13. 277 12. 607  
11. 987 11. 422  
10. 922 10. 459 10. 014 9. 6276 9. 2742 8. 9334 8. 6174 8. 3246  
8. 0385 7. 7845  
7. 5432 7. 2921 7. 0656 6. 859 6. 6526 6. 456 6. 2719 6. 0903  
5. 9216 5. 7599  
5. 5957 5. 4587 5. 3219 5. 1876 5. 0607 4. 9413 4. 8342 4. 7248  
4. 6228 4. 5283  
4. 4488 4. 3544 4. 2673 4. 1901 4. 1229 4. 0508 3. 9886 3. 9264  
3. 8741 3. 8219  
3. 7746 3. 7274 3. 6827 3. 6453 3. 6154 3. 5806 3. 5532 3. 5357  
3. 5133 3. 4934  
3. 4785 3. 4685 3. 4536 3. 4412 3. 4361 3. 441 3. 4411 3. 4435  
3. 4485 3. 4559  
3. 4634 3. 461 3. 4683 3. 4709 3. 4807 3. 4808 3. 471 3. 4536  
3. 4387 3. 4558  
3. 4435

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279.38 279 279.36 279.53 278.64 278.63 278.22 277.48 276.9  
275.72  
274.71 274.15 273.08 271.84 270.16 268.68 267.03 265.21  
263.4 261.4  
259.31 257.08 254.86 252.65 249.94 247.62 244.66 241.86  
239.16 236.03  
233.04 229.83 226.89 223.81 220.4 216.97 213.4 210.01  
206.36 202.82  
199.19 195.25 191.67 188.12 184.09 180.19 176.37 172.66  
168.95 164.91  
161.01 157.08 153.18 149.27 145.37 141.22 137.52 133.56  
129.91 126  
122.11 118.42 114.83 111 107.27 103.7 100.12 96.613 93.198  
89.727  
86.321 83.009 79.734 76.708 73.529 70.481 67.454 64.635  
61.669 58.99  
56.288 53.665 51.129 48.674 46.336 44.012 41.796 39.634  
37.639 35.638  
33.744 31.872 30.095 28.434 26.81 25.327 23.825 22.517  
21.216 20.042  
18.855 17.843 16.83 15.92 15.031 14.257 13.505 12.832  
12.205 11.631  
11.114 10.629 10.199 9.7994 9.4317 9.0911 8.7582 8.4627  
8.1964 7.9182  
7.663 7.4318 7.2078 6.9743 6.7656 6.5767 6.3902 6.2111  
6.0274 5.8708  
5.7192 5.5728 5.4239 5.2994 5.1628 5.0459 4.9242 4.8197  
4.708 4.6135  
4.5215 4.432 4.3475 4.2608 4.1887 4.1191 4.0545 3.9947  
3.9277 3.8732  
3.8308 3.7812 3.7389 3.6967 3.6645 3.6322 3.6 3.5825 3.5577  
3.5378  
3.5228 3.5006 3.4906 3.4783 3.4709 3.4733 3.466 3.4734  
3.4735 3.4833  
3.4859 3.4958 3.4982 3.4983 3.5057 3.5083 3.5179 3.4927  
3.4387 3.4511  
3.4435  
279.38 279.13 279 278.81 278.53 277.71 277.71 276.78 276.34  
275.3  
274.06 273.51 271.73 270.49 269.12 267.55 266.07 264.07  
262.12 260.09

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257.95 255.75 253.36 251.27 248.48 245.92 243.28 240.6  
237.39 234.61  
231.35 228.19 225 221.49 218.27 215.14 211.51 207.78 204.54  
200.7  
197.05 193.47 189.66 185.7 181.88 178.25 174.14 170.29  
166.47 162.46  
158.71 154.81 150.66 146.59 142.94 138.93 135.13 131.15  
127.22 123.57  
119.89 115.84 112.26 108.47 104.81 101.27 97.78 94.155  
90.91 87.314  
84.124 80.719 77.648 74.734 71.554 68.649 65.774 62.906  
60.127 57.387  
54.816 52.301 49.755 47.378 45.074 42.821 40.671 38.604  
36.579 34.707  
32.808 31.065 29.371 27.7 26.214 24.741 23.379 22.024  
20.794 19.635  
18.518 17.554 16.547 15.685 14.852 14.098 13.391 12.726  
12.136 11.581  
11.076 10.62 10.192 9.8017 9.4458 9.105 8.7865 8.5059  
8.2348 7.9662  
7.7247 7.4835 7.2521 7.0307 6.8365 6.6326 6.4558 6.2718  
6.0932 5.9314  
5.7624 5.6105 5.4761 5.3442 5.2174 5.0979 4.9785 4.8666  
4.767 4.6675  
4.5782 4.4936 4.3992 4.3219 4.2473 4.1801 4.1129 4.0556  
3.9935 3.9387  
3.8865 3.8418 3.7995 3.7547 3.7124 3.6726 3.6452 3.6178  
3.5979 3.5804  
3.563 3.5481 3.5332 3.5232 3.5132 3.5033 3.5007 3.4983  
3.5032 3.5131  
3.5206 3.5181 3.5231 3.5354 3.5405 3.5307 3.5379 3.5429  
3.4395 3.4509  
3.4435  
279.38 278.8 278.77 278.55 278.11 277.84 277.23 276.48  
275.47 274.86  
273.41 272.31 271.45 269.73 268.45 266.13 264.75 263.12  
261.03 258.89  
256.45 254.5 252.11 249.58 247.13 244.49 241.45 238.73  
235.98 233.11  
229.42 226.4 223.53 220.07 216.37 213.07 209.74 205.81  
202.41 198.83

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194.85 191.34 187.47 183.79 180.02 176.09 172.14 168.27  
164.47 160.44  
156.64 152.6 148.6 144.6 140.86 136.93 133.11 129.15 125.37  
121.52  
117.82 114.05 110.34 106.74 103 99.399 95.976 92.442 89.071  
85.66  
82.264 79.174 76.058 72.911 69.862 67.003 64.037 61.3  
58.526 55.852  
53.313 50.844 48.381 46.087 43.906 41.663 39.666 37.578  
35.669 33.832  
32.017 30.322 28.674 27.116 25.62 24.245 22.876 21.63  
20.399 19.342  
18.247 17.287 16.335 15.485 14.663 13.928 13.254 12.628  
12.022 11.477  
11.012 10.55 10.14 9.7524 9.4069 9.0739 8.7658 8.4801  
8.2165 7.9557  
7.7152 7.4816 7.2701 7.0489 6.8402 6.6514 6.4748 6.2983  
6.1268 5.9653  
5.8112 5.6674 5.5258 5.4013 5.2647 5.1479 5.031 4.9168  
4.8196 4.7055  
4.616 4.5315 4.4469 4.3578 4.2881 4.2136 4.1464 4.0794  
4.0222 3.9625  
3.9054 3.8582 3.816 3.7761 3.7317 3.7042 3.667 3.6372  
3.6098 3.5849  
3.5578 3.5478 3.5355 3.5329 3.5231 3.5206 3.5157 3.5207  
3.5256 3.5232  
3.5282 3.5356 3.5455 3.548 3.553 3.5579 3.5603 3.5493  
3.4362 3.4511  
3.4435  
279.38 278.41 278.12 277.38 276.94 276.77 275.6 274.94 273.9  
272.8  
272.03 270.9 269.26 267.42 265.93 264.42 262.54 260.31  
258.36 256.49  
254.11 251.55 249.27 246.5 243.7 241.03 238.28 235.25  
232.39 229.2  
225.83 222.86 219.56 215.99 212.75 209.21 205.47 201.82  
198.01 194.65  
190.89 187.21 183.23 179.44 175.7 171.64 167.76 164 160.02  
155.82  
152.14 148.11 144.45 140.39 136.57 132.58 128.71 125 121.18  
117.39

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113.84 110.04 106.3 102.51 99.072 95.366 92.039 88.769  
85.445 81.958  
78.905 75.836 72.767 69.745 66.857 64.009 61.324 58.512  
55.867 53.28  
50.847 48.425 46.101 43.913 41.764 39.649 37.659 35.721  
33.877 32.108  
30.399 28.78 27.188 25.67 24.299 22.947 21.729 20.479  
19.391 18.348  
17.301 16.444 15.517 14.757 13.991 13.297 12.671 12.079  
11.554 11.049  
10.591 10.195 9.7969 9.4557 9.1323 8.8238 8.5327 8.2647  
8.0035 7.767  
7.5282 7.2994 7.0878 6.8888 6.6873 6.4982 6.3314 6.1648  
5.9888 5.8344  
5.69 5.5581 5.4214 5.2871 5.17 5.0581 4.9412 4.8465 4.7397  
4.65  
4.5583 4.4761 4.3891 4.3144 4.2324 4.1701 4.1104 4.0457  
3.9885 3.9288  
3.8839 3.8344 3.797 3.7572 3.7223 3.69 3.6601 3.6352 3.6054  
3.5903  
3.5656 3.5506 3.5406 3.5331 3.5232 3.5251 3.5271 3.529  
3.531 3.5329  
3.5429 3.5553 3.5727 3.5851 3.5853 3.5705 3.5703 3.5137  
3.4466 3.4657  
3.4435  
279.38 281.28 280.65 280.15 279.61 279.11 277.99 276.79  
275.82 274.72  
273.38 272.28 270.69 269.07 266.99 264.98 263.39 261.2  
258.76 256.45  
253.76 251.69 248.82 245.85 243.07 240.3 237.39 234.1  
231.05 227.95  
224.82 221.09 217.6 214.43 210.97 207.27 203.83 199.8  
196.15 192.58  
188.76 184.97 180.96 176.93 173.02 169.26 165.22 161.35  
157.45 153.54  
149.52 145.51 141.82 137.87 133.94 130.07 126.25 122.56  
118.56 114.82  
111.14 107.36 103.78 100.13 96.692 92.987 89.712 86.226  
82.981 79.685  
76.613 73.544 70.643 67.638 64.7 61.93 59.125 56.536 53.863  
51.431

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48.957 46.679 44.352 42.234 40.098 38.053 36.144 34.234  
32.464 30.77  
29.081 27.483 26.005 24.562 23.287 21.988 20.756 19.653  
18.573 17.577  
16.644 15.763 14.949 14.21 13.515 12.873 12.265 11.727  
11.232 10.788  
10.363 9.9819 9.6333 9.2901 8.9887 8.7124 8.429 8.1782  
7.9343 7.6931  
7.4666 7.2526 7.0534 6.8643 6.6729 6.4937 6.3294 6.1628  
6.0187 5.8646  
5.7227 5.5933 5.4566 5.3444 5.23 5.1156 4.9987 4.9015  
4.8045 4.7149  
4.6257 4.5484 4.4615 4.3941 4.3171 4.2449 4.1827 4.118  
4.0681 4.0061  
3.9513 3.9041 3.8568 3.8194 3.7797 3.7472 3.7174 3.6875  
3.6675 3.6476  
3.6302 3.6152 3.6004 3.5953 3.5878 3.5853 3.5828 3.5803  
3.5852 3.5877  
3.5951 3.6075 3.6126 3.6126 3.6028 3.5781 3.5508 3.4718  
3.4783 3.4808  
3.4435  
279.38 280.39 279.51 279.16 278.77 277.97 277.14 275.85  
274.79 273.82  
272.45 270.8 269.18 267.42 265.55 263.46 261.57 259.72  
257.11 254.81  
252.26 250.24 247.28 244.8 241.89 238.9 236.06 232.63  
229.56 226.56  
223.13 219.86 216.27 212.97 209.45 205.55 201.92 198.35  
194.1 190.76  
186.59 182.89 179.13 175.17 171.35 167.45 163.74 159.6  
155.86 151.9  
147.97 144.03 140.05 136.3 132.37 128.58 124.9 120.93  
117.24 113.59  
109.85 106.21 102.69 99.179 95.701 92.123 88.894 85.57  
82.356 79.059  
75.819 72.913 69.898 67.01 64.092 61.302 58.544 56.033  
53.362 50.958  
48.399 46.134 43.92 41.693 39.61 37.606 35.648 33.788  
31.951 30.23  
28.575 27.038 25.517 24.135 22.775 21.513 20.31 19.199  
18.128 17.146

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16.214 15.386 14.586 13.855 13.177 12.563 11.984 11.475  
10.983 10.549  
10.121 9.7585 9.4056 9.0875 8.7892 8.5059 8.2545 7.9813  
7.7402 7.5189  
7.3007 7.082 6.8881 6.7016 6.5152 6.3461 6.1771 6.0204  
5.8664 5.7321  
5.5879 5.4562 5.3273 5.2153 5.0936 4.9842 4.8822 4.7803  
4.6834 4.5965  
4.5218 4.4348 4.3552 4.276 4.2138 4.1467 4.087 4.0273  
3.9652 3.9155  
3.8683 3.826 3.7813 3.7465 3.7093 3.6771 3.6522 3.6273  
3.605 3.5827  
3.5727 3.5603 3.5529 3.5479 3.5454 3.5381 3.5455 3.553  
3.5555 3.5679  
3.5778 3.5777 3.5702 3.5528 3.5354 3.5255 3.5176 3.4635  
3.4734 3.4782  
3.4435  
279.38 279.2 278.84 278.31 277.87 277.08 275.69 274.67  
273.87 272.39  
270.8 269.21 267.62 265.75 264.04 262.23 260.56 257.99  
255.87 253.16  
250.57 247.58 245.05 242.66 239.75 236.68 233.73 230.48  
227.43 224.27  
220.92 217.16 213.88 210.29 206.85 203.2 199.63 195.87  
191.98 188.24  
184.67 180.63 176.76 172.89 169.01 165.03 160.99 157.33  
153.44 149.45  
145.4 141.58 137.92 133.83 130.04 126.3 122.48 118.64  
114.98 111.44  
107.76 104.09 100.4 96.968 93.588 90.155 86.775 83.341  
80.179 77.239  
74.302 71.111 68.275 65.327 62.628 59.817 57.031 54.482  
51.92 49.575  
47.132 44.864 42.636 40.534 38.462 36.439 34.528 32.66  
30.935 29.187  
27.591 26.07 24.615 23.229 21.92 20.704 19.554 18.454  
17.436 16.471  
15.599 14.78 14.009 13.297 12.662 12.072 11.516 11.025  
10.57 10.164  
9.7757 9.4148 9.0738 8.7725 8.4863 8.2053 7.9562 7.7058  
7.4693 7.238

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7.0411 6.8372 6.6407 6.4516 6.2847 6.1156 5.949 5.8021  
5.6606 5.514  
5.3795 5.2649 5.1407 5.0311 4.9143 4.8121 4.72 4.6255  
4.5261 4.4512  
4.3621 4.2947 4.2177 4.1431 4.0783 4.0136 3.9514 3.8991  
3.842 3.7921  
3.7449 3.7051 3.6678 3.6305 3.6054 3.5757 3.5458 3.5233  
3.5059 3.4959  
3.4834 3.4735 3.4709 3.4684 3.4684 3.4709 3.4783 3.4931  
3.5154 3.523  
3.5182 3.5107 3.4984 3.4933 3.4908 3.4883 3.4785 3.4587  
3.4609 3.4609  
3.4435  
279.38 279.16 278.58 277.81 277.2 276.43 275.47 274.24  
273.38 272.2  
270.33 268.91 267.64 265.8 263.87 261.59 259.5 257.44  
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223.54  
220.17 216.62 213.16 210.08 206.13 202.47 198.85 195.25  
191.38 187.83  
183.76 179.9 176.13 172.1 168.22 164.27 160.34 156.44  
152.73 148.74  
144.75 140.76 137.04 132.91 129.37 125.33 121.63 117.84  
114.16 110.55  
106.88 103.24 99.766 96.226 92.774 89.385 86.083 82.81  
79.611 76.524  
73.37 70.405 67.422 64.56 61.719 59.032 56.319 53.836  
51.274 48.972  
46.524 44.237 42.076 39.892 37.899 35.837 33.955 32.13 30.4  
28.739  
27.136 25.622 24.17 22.805 21.527 20.29 19.144 18.078  
17.096 16.142  
15.265 14.462 13.724 13.04 12.392 11.812 11.269 10.811  
10.371 9.9573  
9.5745 9.2168 8.9061 8.6126 8.3169 8.046 7.7947 7.539  
7.3225 7.0939  
6.8906 6.6942 6.5052 6.3213 6.1497 5.9807 5.8241 5.675  
5.5357 5.3989  
5.2598 5.1355 5.0141 4.9095 4.7903 4.6884 4.5939 4.497  
4.4075 4.3255



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4. 2484 4. 1688 4. 0943 4. 0249 3. 9627 3. 903 3. 8359 3. 7837  
3. 7291 3. 6843  
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3. 4136 3. 4013  
3. 3988 3. 3963 3. 3938 3. 3914 3. 3939 3. 4038 3. 4163 3. 4313  
3. 4536 3. 4708  
3. 4634 3. 4635 3. 4659 3. 4634 3. 4585 3. 4635 3. 4658 3. 4585  
3. 461 3. 4657  
3. 4435  
279. 38 278. 69 278. 15 277. 63 277. 13 275. 94 275. 32 274. 26  
273. 21 271. 63  
270. 36 268. 77 267. 45 265. 72 263. 56 261. 36 259. 33 257. 57  
254. 94 252. 57  
249. 83 247. 46 244. 45 241. 94 239. 15 236. 15 232. 81 229. 68  
226. 93 223. 69  
220. 21 216. 77 213. 23 209. 87 206. 47 202. 52 198. 86 195. 26  
191. 43 187. 64  
183. 82 179. 67 175. 8 172. 14 168. 11 164. 26 160. 22 156. 24  
152. 39 148. 52  
144. 36 140. 45 136. 77 132. 76 128. 99 124. 99 121. 22 117. 48  
113. 58 109. 87  
106. 3 102. 6 99. 003 95. 621 92. 242 88. 619 85. 373 81. 941  
78. 751 75. 736  
72. 723 69. 608 66. 616 63. 877 61. 029 58. 275 55. 608 53. 067  
50. 53 48. 168  
45. 769 43. 544 41. 318 39. 194 37. 225 35. 218 33. 42 31. 536  
29. 899 28. 216  
26. 687 25. 19 23. 804 22. 396 21. 181 19. 97 18. 87 17. 802 16. 858  
15. 896  
15. 042 14. 243 13. 528 12. 856 12. 227 11. 654 11. 143 10. 648  
10. 216 9. 8157  
9. 4473 9. 1038 8. 7827 8. 484 8. 2176 7. 9466 7. 6952 7. 4545  
7. 2256 7. 0115  
6. 8099 6. 6036 6. 4217 6. 2353 6. 0733 5. 8945 5. 7449 5. 5933  
5. 4542 5. 3101  
5. 1855 5. 0636 4. 9442 4. 8322 4. 7203 4. 628 4. 5286 4. 4365  
4. 347 4. 2648  
4. 1805 4. 1083 4. 0337 3. 9665 3. 8993 3. 8371 3. 7798 3. 7202  
3. 6728 3. 6181  
3. 5757 3. 5385 3. 5036 3. 459 3. 429 3. 404 3. 3792 3. 3568 3. 3467  
3. 3269

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3. 3242 3. 3193 3. 3168 3. 329 3. 3341 3. 3513 3. 3638 3. 3886  
3. 3987 3. 4135  
3. 426 3. 4311 3. 4311 3. 4385 3. 4459 3. 4411 3. 4411 3. 4484  
3. 4608 3. 4609  
3. 4435