BlueSpot®



1/2" TORQUE WRENCH & 3/8" TORQUE WRENCH

User Manual





General Information

Thank you for purchasing a BlueSpot product, you can find further information on our range at **www.bluespot.uk.com**. Please ensure that you are using the product correctly and that all guidance and cautions are followed in accordance with the instructions. Please retain these instructions for future reference.

Safe use

Please make sure that you read these instructions carefully in order to avoid injury when using the tool. Follow all health and safety rules and regulations. If in doubt and available please contact a more knowledgeable source.

DO NOT use if damaged.

- If tool is damaged do not use as this may cause damage to property or injury
- As with all vehicle testing and maintenance please use appropriate fixing such as axel stands or wheel chocks
- Maintain tool in good and clean condition for best and safest performance.
- Keep the work area clean, uncluttered and ensure there is adequate lighting.
- Maintain correct balance and footing. Ensure the floor is not slippery and wear non-slip shoes.
- Keep children and unauthorised persons away from the work area.
- Always dress appropriately and wear the correct PPE such as goggles and a dust mask if required

Always store the torque wrench in the lowest torque setting Refer to vehicle manual and contact manufacturer if unsure. These instructions are intended as a guide only.

Introduction and Specification

Stock code: 02005 Stock code: 02007

 Drive: 1/2"
 Drive: 3/8"

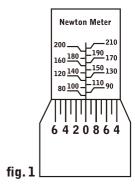
 Length: 470mm
 Length: 370mm

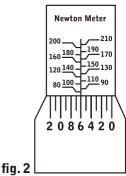
 Range: 40-210NM
 Range: 19-110NM

How to use

- Hold the wrench in a comfortable position so that the scale is visible
- Loosen the knurled locking screw at the end of the handle by turning it anti-clockwise
- 3. Adjust the wrench to the desired setting by twisting the handle clockwise to the desired torque level.

 Example: 76 Nm.
- Turn the grip of the wrench until the top edge is in line with the marked scale on the wrench shaft.
- 5. The edge of the grip should be even with the 70 Nm graduation. (fig.1)
- 6. Turn the grip of the wrench so that the 6 on the scale of the grip is lined up with the marking on the wrench shaft (fig.2)
- 7. This wrench is now set to 76NM and can be used.
- 8. Turn the knurled locking screw at the base of the handle to lock the wrench
- Once you begin tightening the fixing you are working on you will hear and feel the wrench click once the desired torque is met.





NOTE: Once the fixing is torqued to the desired load do not overload the wrench after the clicks otherwise this can damage the wrench.

Remember to store the torque wrench at its lowest setting by turning the handle anti-clockwise this will stop the spring from being overstretched and the wrench becoming inaccurate.

It is advisable to store the wrench in the case that it comes in along with the instructions and the calibration certificate should you require them at a later date.

If you are using the wrench for the first time after a long period of inactivity it is advisable to operate it on a low setting multiple times in order to coat the internal parts with grease.

Further Care Instructions

Clean the wrench only by using a clean and dry cloth and do not immerse the wrench into any cleaning liquid as this will damage the function of the tool.



	Foot	Kilogram	Newton	Newton	Foot	Kilogram	Kilogram	Newton	Foot
10	Pounds (Ft.Lbs)	Meters (Kgm or mkp)	Meters (Nm)	Meters (Nm)	Pounds (Ft.Lbs)	Meters (Kgm or mkp)	Meters (Kgm or mkp)	Meters (Nm)	Pounds (Ft.Lbs)
10	5	0.69	6.78	10	7 38	102	1	9.81	7 23
15									14,47
20						-			21.70
25 3.46 33.90 50 36.88 5.10 5 49.04 36.1 30 4.15 40.68 60 44.26 6.12 6 58.84 43.4 40 5.53 54.24 80 59.01 8.16 8 78.46 50.6 45 6.22 61.02 90 66.38 9.18 9 88.26 65.1 50 6.91 67.80 100 73.80 10.20 10 98.07 72.33 55 7.60 74.58 110 81.14 11.22 11 107.88 795.5 60 8.29 81.36 120 88.51 12.24 12 117.68 86.8 65 8.98 88.14 130 95.89 13.26 13 127.49 94.0 65 8.98 88.14 130 95.89 13.26 13 127.49 94.0 70 9.67 94.92 140 103.26 14.28 14 137.30 101.2 75 10.37 101.70 150 110.64 15.30 15 147.11 108.5 80 11.06 108.48 160 118.02 16.32 16 156.91 115.5 85 11.75 115.26 170 125.39 17.34 17 166.72 12.29 90 12.44 12.204 180 132.77 18.36 18 176.53 130.2 95 13.13 128.82 190 140.14 19.38 19 186.33 137.4 100 13.82 135.60 200 147.52 20.40 20 196.14 14.46 115.0 13.82 135.60 200 147.52 20.40 20 196.14 14.46 110 15.20 149.16 22.0 16.27 22.44 22 215.57 15.15 115 15.89 15.594 230 1696.5 12.44 22 21 2.05.95 151.5 115 15.89 15.594 230 1696.5 12.44 22 21 2.55.95 151.5 116 15.20 149.16 22.0 16.27 24.40 19.38 19.86.33 137.4 100 13.82 13.50 20 147.52 20.40 20 196.14 144.6 118 15.20 149.16 22.0 16.27 24.4 22 215.57 166.3 130 17.97 176.28 260 191.78 26.52 26 254.98 188.0 135 18.66 183.06 270 1991.5 27.54 27 26.47 91.51 140 19.35 189.94 280 20.63 38.56 28 274.60 20.5 145 20.04 196.62 290 213.91 29.58 29 284.41 20.7 150 20.73 20.340 300 221.29 30.60 30 29.42.2 17.7 160 22.11 21.96 32.0 23.0 23.0 33.16 33.3 33.66 33 32.265 23.6 270 37.26 36.612 280 33.84 33.90 30.10 280 35.84 37.96 8							_		28.93
35				50			5		36.17
40 5.53 54.24 80 59.01 8.16 8 78.46 50.6 45 6.22 61.02 90 66.38 9.18 9 88.26 65.1 50 6.91 67.80 100 73.80 10.20 10 98.07 72.31 55 7.60 74.58 110 81.14 11.22 11 107.88 79.57 60 8.29 81.36 120 88.51 12.24 12 117.68 86.5 65 8.98 88.14 130 95.89 13.26 13 127.49 94.0 70 9.67 94.92 140 103.26 14.28 14 137.30 101.2 75 10.37 101.70 150 110.64 15.30 15 147.11 108.8 80 11.06 108.48 160 118.02 16.32 16 156.91 115.7 85 11.75 115.26 170 125.39 17.34 17 166.72 122.9 99 12.44 12.20 4 180 132.77 18.36 18 176.53 130.2 95 13.13 128.82 190 140.14 193.8 19 186.33 137.4 100 13.82 135.60 200 147.52 20.40 20 196.14 144.6 105 14.51 142.38 210 154.90 21.42 21 205.95 151.5 110 15.20 149.16 220 162.27 22.44 22 215.75 159.1 110 15.20 149.16 220 162.27 22.44 22 215.75 159.1 120 16.58 162.72 240 177.02 24.48 24 235.37 173.6 125 17.28 169.50 250 184.40 25.50 25 245.18 180.1 135 18.66 183.06 270 191.78 26.52 26 254.98 188.1 135 18.66 183.06 270 191.78 26.52 26 254.98 188.1 140 19.35 189.84 280 206.53 28.56 28 274.60 203.1 140 19.35 189.84 280 206.53 28.56 28 274.60 203.1 150 20.73 203.40 300 221.29 30.60 30 294.22 217.57 150.1 150 20.73 203.40 300 221.29 30.60 30 294.22 217.57 150.1 160 22.11 216.96 320 236.05 32.64 32 313.84 234.1 175 22.34 230.55 340 330.2 221.29 30.60 30 294.22 217.57 150.1 180 24.88 244.08 360 265.68 36.72 36 353.16 26.1 250 33.88 32.25 340 230.52 346.33 33.36 333.36 333.36 333.46 245.5 220 30.40 289.32 23.74 330 243.43 33.66 33 333.65 233.4 234.6 23.2 23.37 33.6 23.3 23.56 23.8 23.8 23.3 23.3 33.6 332.4 23.4 330.0 280.4 38.7 23.8 23.8 23.8 332.2 23.3 33.78 3318.8 32.2 23 33.8 332.2 34.5 338.8 332.2 23 33.8 332.2 34.5 338.8 332.2 23 33.6 33.8 332.6 333.8 332.2 34.5 333.8 332.2 34.5 333.8 332.2 34.5 333.8 332.2 34.5 333.8 332.2 34.5 333.8 332.2 34.5 333.8 332.2 34.5 333.8 332.2 34.5 333.8 332.2 34.5 333.8 332.2 34.5 333.8 332.2 34.5 333.8 332.2 34.5 333.8 332.2 34.5 333.8 332.2 34.5 333.8 332.2 34.5 333.8 332.2 34.5 333.8 332.2 34.5 333.8 332.2 34.7 338.6 332.2 34.7 338.6 332.2 34.7 338.6 332.2 34.7 338.6 332.2 34.7 338.6	30	4.15	40.68	60	44.26	6.12	6	58.84	43.40
45	35	4.84	47.46	70	51.63	7.14	7	68.65	47.87
50	40	5.53	54.24	80	59.01	8.16	8	78.46	50.63
55	45	6.22	61.02	90	66.38	9.18	9	88.26	65.10
60 8.29 81.36 120 88.51 12.24 12 117.68 86.8 65 8.98 88.14 130 95.89 132.6 13 127.49 94.0 94.0 96.7 96.7 94.92 140 1032.6 14.28 14 137.30 101.2 75 10.37 101.70 150 110.64 15.30 15 147.11 108.5 80 110.66 108.48 160 118.02 16.32 16 156.91 115.7 115.26 170 125.39 17.34 17 166.72 122.9 90 12.44 122.04 180 132.77 18.36 18 176.53 130.2 95 13.13 128.82 190 140.14 13.38 19 186.33 137.4 100 13.82 135.60 200 147.52 20.40 20 196.14 144.6 105 14.51 142.38 210 154.90 21.42 21 205.95 151.5 110 15.20 149.16 220 162.27 22.44 22 215.75 159.1 115 15.89 155.94 230 169.65 23.46 23 225.37 166.3 120 16.58 162.72 240 177.02 24.48 24 235.37 173.6 125 172.8 169.50 250 184.40 25.50 25 245.18 180.8 135 18.66 183.06 270 199.15 27.54 27 264.79 195.3 140 19.35 189.84 280 206.53 28.56 28 274.60 202.5 140 19.35 18.66 183.06 270 199.15 27.54 27 264.79 195.3 140 19.35 189.84 280 206.53 28.56 28 274.60 202.5 150 150 20.73 203.40 300 221.29 30.60 30 294.22 217.7 155 21.42 210.18 310 228.67 31.62 31 30.40 324.2 210.18 310 228.67 31.62 31 30.40 324.2 210.18 310 228.67 31.62 31 30.40 322.2 37.7 165.3 12.2 31.9 33.16 325.44 32.3 33.85 332.22 32.3 31.78 311.88 24.3 33.66 25.54 33.3 33.6 25.54 33.3 33.6 25.54 33.3 33.6 25.54 33.3 33.6 225.3 32.27 32.6 36.12 23.0 33.3 33.6 325.44 33.9 30 280.2 23.3 77.3 36.2 37.9 37.6 36.12 23.0 33.3 33.6 325.44 33.9 30 280.4 33.16 325.44 33.9 30 33.6 33.2 22.2 32.2 32.2 32.2 32.2 32.2	50	6.91		100	73.80	10.20	10	98.07	72.33
65 8.98 88.14 130 95.89 13.26 13 127.49 94.03 70 9.67 94.92 140 103.26 14.28 14 137.30 101.2 75 10.37 101.70 150 110.64 15.30 15 147.11 108.5 80 11.06 108.48 160 118.02 16.32 16 156.91 115.7 85 11.75 115.26 170 125.39 17.34 17 166.72 122.9 90 12.44 122.04 180 132.77 18.36 18 176.53 130.0 95 13.13 128.82 190 140.14 19.38 19 186.33 137.4 100 13.82 135.60 200 147.52 20.40 20 196.14 144.6 105 14.51 142.38 210 154.90 21.42 21 205.95 151.5 110 15.20 149.16 220 162.27 22.44 22 215.75 159.1 115 15.89 155.94 230 169.65 23.46 23 225.37 163.6 120 16.58 162.72 240 177.02 24.48 24 235.37 173.4 125 17.28 169.50 250 184.40 25.50 25 245.18 180.6 130 17.97 176.28 260 191.78 26.52 26 254.98 188.0 130 17.97 176.28 260 191.78 26.52 26 254.98 188.0 130 17.97 203.40 300 221.29 30.60 30 294.22 217.7 145 20.04 196.62 290 213.91 29.58 29 284.41 20.9.7 146 22.07 22.37 203.40 300 221.29 30.60 30 294.22 217.7 155 21.42 210.18 310 228.67 31.62 31 304.03 224.2 155 17.28 199.50 250 184.40 25.50 25 26 254.98 186.0 130 17.97 176.28 260 191.78 26.52 26 26 254.98 186.0 130 17.97 203.40 300 221.29 30.60 30 294.22 217.7 155 21.42 210.18 310 228.67 31.62 31 304.03 224.2 166 22.80 223.74 330 236.05 32.64 33 33.36 33.26 32.74 30 225.37 169.1 165 22.80 223.74 330 243.43 33.66 33 323.65 238.6 170 23.49 230.52 340 256.05 37.04 37.4 37 362.97 267.5 175 24.19 237.70 350 258.30 35.70 35 343.33 22.55 23.64 225 33.109 305.10 230.30 305.10 230.30 30.294.2 21.7 225 33.109 305.10 230.30 38.84 333.46 235.44 22.50 33.85 332.22 25.37 31.88 318.86 24.42 339.00 287.82 39.78 39 382.59 281.5 225 33.109 305.10 230 30.80 30.294.2 21.7 296.44 22.2 28.7 37.6 38.37 27.8 31.86 22.3 33.85 332.22 25.3 31.09 305.10 23.3 33.6 33.2 25.3 25.44 22.2 33.85 332.22 25.3 33.99 335.10 228.67 37.26 36.12 290 22.3 34.54 333.86 23.2 22.3 33.85 332.22 25.3 33.99 335.10 228.67 37.2 24.9 30.60 35.80 35.70 25.0 25.0 36.80 35.70 27.3 26.9 36.9 37.7 27.3 26.9 36.12 29.0 22.3 34.5 33.85 332.22 25.3 33.99 332.2 25.3 33.99 332.2 25.3 33.99 332.2 25.3 33.99 332.2 25.3 33.99 332.2 25.3 33.99 332.2 2	55	7.60	74.58	110	81.14	11.22	11	107.88	79.57
70 9.67 94.92 140 103.26 14.28 14 137.30 101.2 75 10.37 101.70 150 110.64 15.30 15 147.11 108.5 80 11.06 108.48 160 118.02 16.32 16 156.91 115.7 85 11.75 115.26 170 125.39 17.34 17 166.72 122.9 90 12.44 122.04 180 132.77 18.36 18 176.53 130.2 95 13.13 128.82 190 140.14 19.38 19 186.33 137.4 100 13.82 135.60 200 147.52 20.40 20 196.14 144.6 105 14.51 142.38 210 154.90 21.42 21 205.95 151.5 110 15.20 149.16 220 162.27 22.44 22 215.75 159.1 115 15.89 155.94 230 169.65 23.46 23 225.37 166.3 120 16.58 162.72 240 177.02 24.48 24 235.37 173.6 121 17.28 169.50 250 184.40 25.50 25 245.18 180.1 130 17.97 176.28 260 191.78 26.52 26 254.98 188.0 130 17.97 176.28 260 191.78 26.52 26 254.98 188.0 131 18.66 183.06 270 199.15 27.54 27 264.79 195.3 140 19.35 189.84 280 206.53 28.56 28 274.60 202.5 145 20.04 196.62 290 213.91 29.58 29 284.41 209.7 150 20.73 203.40 300 221.29 30.60 30 294.22 217.0 150 22.11 216.96 320 236.05 32.64 32 313.84 231.4 160 22.11 216.96 320 236.05 32.64 32 313.84 231.4 160 22.11 216.96 320 236.05 32.64 32 313.84 231.4 160 22.11 216.96 320 236.05 32.64 32 313.84 231.4 160 22.11 216.96 320 236.05 32.64 32 313.84 231.4 160 22.11 216.96 320 236.05 32.64 32 313.84 231.4 160 22.11 216.96 320 236.05 32.64 32 313.84 231.4 160 22.11 216.96 320 236.05 32.64 32 313.84 231.4 160 22.11 216.96 320 236.05 32.64 32 313.84 231.4 170 23.49 23.05.2 340 300.2 23.00 30.90 23.00 30.00 23.00 30.00 23.00 30.00 23.00 33.18 33.36 33.25.65 236.65 33.85 332.25	60	8.29	81.36	120	88.51	12.24	12	117.68	86.80
75 10.37 101.70 150 110.64 15.30 15 147.11 108.5 80 11.06 108.48 160 118.02 16.32 16 156.91 115.7 85 11.75 115.26 170 125.39 17.34 17 166.72 125.9 90 12.44 122.04 180 132.77 18.36 18 176.53 130.2 95 13.13 128.82 190 140.14 19.38 19 186.33 137.4 100 13.82 135.60 200 147.52 20.40 20 196.14 144.6 1105 14.51 142.38 210 154.90 21.42 21 205.95 151.5 110 15.20 149.16 220 162.27 22.44 22 215.75 159.1 110 15.20 149.16 220 162.27 22.44 22 215.75 159.1 120 16.58 162.72 240 177.02 24.48 24 235.37 166.3 120 16.58 162.72 240 177.02 24.48 24 235.37 166.3 130 17.97 176.28 260 191.78 26.52 26 25.98 188.6 130 17.97 176.28 260 191.78 26.52 26 25.98 188.6 131 140 19.35 189.84 280 206.53 28.56 28 274.60 202.5 145 20.04 196.62 290 213.91 29.58 29 284.41 200.5 145 20.04 196.62 290 213.91 29.58 29 284.41 200.5 150 20.73 203.40 300 221.29 30.60 30 294.22 217.7 155 21.42 210.18 310 228.67 31.62 31 304.03 224.2 160 22.11 216.96 320 236.05 32.64 32 313.34 231.4 160 22.11 216.96 320 236.05 32.64 32 313.34 231.4 160 22.11 216.96 320 236.05 32.64 32 313.34 231.4 160 22.11 216.96 320 236.05 32.64 32 313.34 231.4 160 22.11 216.96 320 236.05 32.64 32 313.34 231.4 160 22.11 216.96 320 236.05 32.64 32 313.34 231.4 160 22.11 216.96 320 236.05 32.64 32 313.34 231.4 160 22.11 216.96 320 236.05 32.64 32 313.34 231.4 160 22.11 216.96 320 236.05 32.64 32 313.34 231.4 160 22.11 216.96 320 236.05 32.64 32 313.34 231.4 160 22.11 216.96 320 236.05 32.64 32 313.34 231.4 160 22.11 216.96 320 236.05 32.64 32 313.34 231.4 160 22.11 216.96 320 236.05 32.64 32 313.34 231.4 160 22.11 216.96 320 236.05 32.64 32 313.34 231.4 160 22.11 216.96 320 236.05 32.64 32 313.34 231.4 160 22.11 216.96 320 236.05 32.64 32 313.34 231.4 160 22.11 216.96 320 236.05 32.64 32 313.34 231.4 160 22.11 216.96 320 236.05 32.64 32 313.34 231.4 160 22.11 216.96 320 236.05 32.64 32 313.34 231.4 160 22.11 216.96 320 236.05 32.64 32 31 33.40 236.5 238.5 175 24.19 237.70 350 258.30 35.70 35 343.35 253.0 180 24.88 34.38 352.65 370 35 34.34 33.56 332.22 34.76 33.85 32.22 34.76 33.85 32.22 34.76	65	8.98	88.14	130	95.89	13.26	13	127.49	94.03
80	70	9.67	94.92	140	103.26	14.28	14	137.30	101.27
85 11.75 115.26 170 125.39 17.34 17 166.72 122.9 90 12.44 122.04 180 132.77 18.36 18 176.53 130.2 95 13.13 128.82 190 140.14 19.38 19 186.33 137.4 100 13.82 135.60 200 147.52 20.40 20 196.14 144.6 105 14.51 142.38 210 154.90 21.42 21 205.95 151.5 110 15.20 149.16 220 162.27 22.44 22 215.75 159.1 115 15.89 155.94 230 169.65 23.46 23 225.37 166.3 120 16.58 162.72 240 177.02 24.48 24 235.37 173.6 125 17.28 169.50 250 184.40 25.50 25 245.18 180.8 135 18.66 183.06 270 199.15 27.54 27 264.79 195.3 140 193.5 189.84 280 206.53 28.56 28 274.60 202.5 140 193.5 189.84 280 206.53 28.56 28 274.60 202.5 155 21.42 210.18 310 228.67 31.62 31 304.03 224.2 160 22.11 216.96 320 236.05 32.64 32 313.84 231.4 165 22.80 22.37.4 330 243.43 33.66 33 323.65 238.6 170 23.49 230.52 340 250.81 346.8 34 333.46 245.5 175 24.49 237.70 350 258.30 35.70 35 343.35 253.0 180 24.88 244.08 360 265.68 36.72 36 353.16 260.2 225 31.09 305.10 230 31.78 311.88 235 32.47 318.66 240 33.16 325.44 32 250 34.54 339.00 260 33.88 352.56 270 37.26 366.5 100 37.56 FT-L 280 38.64 379.68	75	10.37	101.70	150	110.64	15.30	15	147.11	108.50
90 12.44 122.04 180 132.77 18.36 18 176.53 130.2 95 13.13 128.82 190 140.14 19.38 19 186.33 137.4 100 13.82 135.60 200 147.52 20.40 20 196.14 144.6 105 14.51 142.38 210 154.90 21.42 21 205.95 151.5 110 15.20 149.16 220 162.27 22.44 22 215.75 159.1 115 15.89 155.94 230 169.65 23.46 23 225.37 166.3 120 16.58 162.72 240 177.02 24.48 24 225.37 773.6 125 17.28 169.50 250 184.40 25.50 25 245.18 180.8 130 17.97 176.28 260 191.78 26.52 26 254.98 188.0 135 18.66 183.06 270 199.15 27.54 27 264.79 195.3 140 19.35 189.84 280 206.53 28.56 28 274.60 202.5 145 20.04 196.62 290 213.91 29.58 29 284.41 209.7 150 20.73 203.40 300 221.29 30.60 30 294.22 217.5 155 21.42 210.18 310 228.67 31.62 31 30.40 322.42 160 22.11 216.96 320 236.05 32.64 32 313.84 231.4 165 22.80 223.74 330.2 236.05 32.64 32 313.84 231.4 165 22.80 223.74 330 243.43 33.66 33 323.65 238.56 16 26.25 25.2	80	11.06	108.48	160	118.02	16.32	16	156.91	115.74
95 13.13 128.82 190 140.14 1938 19 186.33 137.4 100 13.82 135.60 200 147.52 20.40 20 196.14 144.6 105 14.51 142.38 210 154.90 21.42 21 205.95 151.5 110 15.20 149.16 220 162.27 22.44 22 215.75 159.1 110 15.20 149.16 220 162.27 22.44 22 215.75 159.1 115 15.89 155.94 230 169.65 23.46 23 225.37 166.3 120 16.58 162.72 240 177.02 24.48 24 235.37 173.6 121 17.91 17.91 176.28 260 191.78 26.52 26 254.98 188.6 130 17.97 176.28 260 191.78 26.52 26 254.98 188.6 133 18.66 183.06 270 199.15 27.54 27 264.79 195.3 140 19.35 189.84 280 206.53 28.56 28 274.60 202.5 145 20.04 196.62 290 213.91 29.58 29 284.41 209.7 150 20.73 203.40 300 221.29 30.60 30 294.22 217.7 155 21.42 210.18 310 228.67 31.62 31 304.03 224.2 160 22.11 216.96 320 236.05 32.64 32 313.84 231.4 165 22.80 223.74 33.0 243.43 33.66 33 323.65 238.6 170 23.49 230.52 340 250.81 34.68 34 333.46 245.5 175 24.19 237.70 350 258.80 35.70 35 343.35 253.7 180 24.88 244.08 360 265.68 36.72 36 353.16 260.2 185 25.57 250.86 370 273.06 37.74 37 362.97 267.7 195 26.26 257.64 380 280.44 38.76 38 37.78 274.7 200 27.64 271.20 400 295.20 40.80 40 392.40 289.2 205 28.33 277.88 410 302.58 11.82 41 402.21 296.4 1 CMKG=0.867 IN-LB 1 Nm=0.73756 FT-L 220 30.40 289.32 225 34.93 33.85 332.22 250 34.54 339.00 260 33.88 352.56 270 37.26 366.12 280 38.84 379.68	85	11.75	115.26	170	125.39	17.34	17	166.72	122.97
100	90	12.44	122.04	180	132.77	18.36	18	176.53	130.20
105	95	13.13	128.82	190	140.14	19.38	19	186.33	137.43
110	100	13.82			-	20.40	-	196.14	144.67
115	105	14.51	142.38	210	154.90	21.42	21	205.95	151.90
120	110	15.20	149.16		162.27	22.44		215.75	159.13
125	115	15.89	155.94	230	169.65	23.46	23	225.37	166.37
130	120	16.58	162.72	240	177.02	24.48	24	235.37	173.60
135									180.84
140									188.08
145 20.04 196.62 290 213.91 29.58 29 284.41 209.7 150 20.73 203.40 300 221.29 30.60 30 294.22 217.0 155 21.42 210.18 310 228.67 31.62 31 304.03 224.2 160 22.11 216.96 32.0 236.05 32.64 32 313.84 231.4 165 22.80 223.74 330 243.43 33.66 33 323.65 238.6 170 23.49 230.52 340 250.81 34.68 34 333.46 245.5 175 24.19 237.70 350 258.30 35.70 35 343.35 253.0 180 24.88 244.08 360 265.68 36.72 36 353.16 260.2 185 25.57 250.86 370 273.06 37.74 37 362.97 267.5 190 26.									195.30
150									202.54
155									209.77
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