

GYRO DATA EXAMPLE

Gyroscopic data can be imported to WellCAD and used to assess borehole trajectory or to supplement the tilt and azimuth channels of image tools.

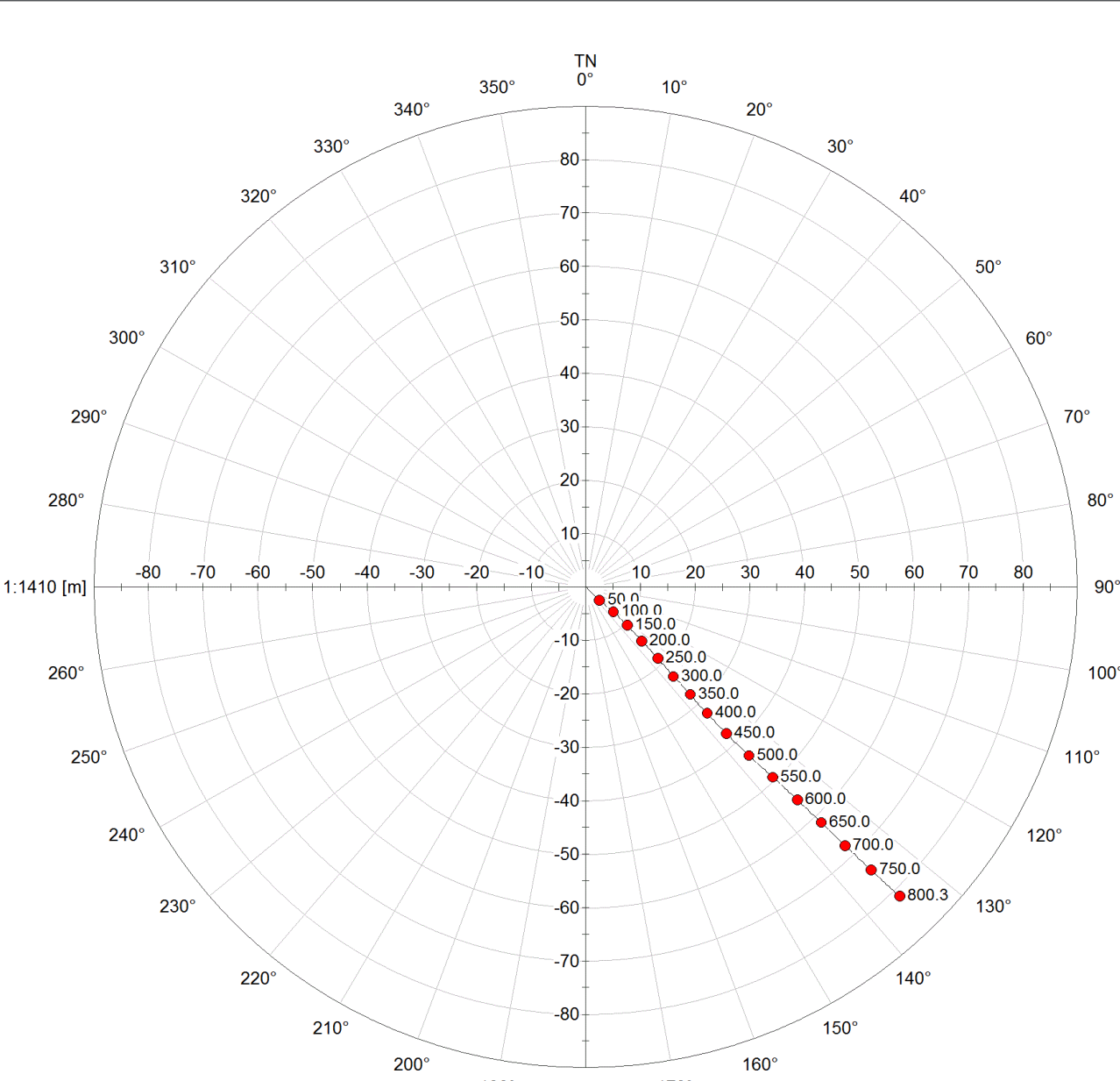
In this example the azimuth measurement from a borehole imaging tool has been affected by magnetic drill rods. The azimuth trace was then corrected using gyro data.

WELLBORE DRIFT INTERPRETATION

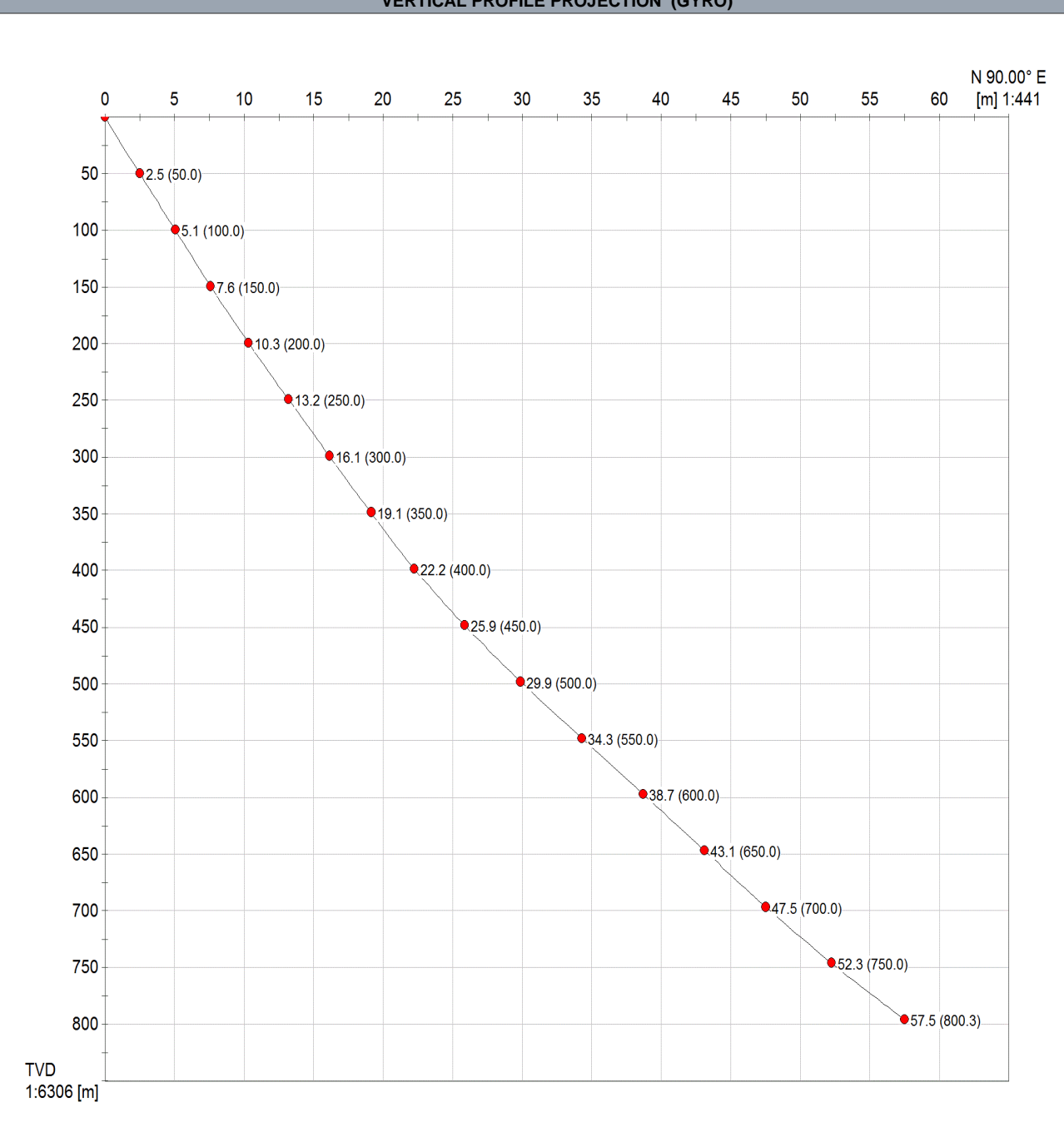
Example 1

Well Name:		Drilling Company:		Well Owner:	
Field:		State:		Country:	
Survey Date: 22-September-17		Calc. Method: Minimum Curvature		Diagram Type: Top View, Vertical Profile, Drift	
Operator:		Tool: Gyro		Mag. Declination:	
Total MD:		Total TVD:		Casing:	

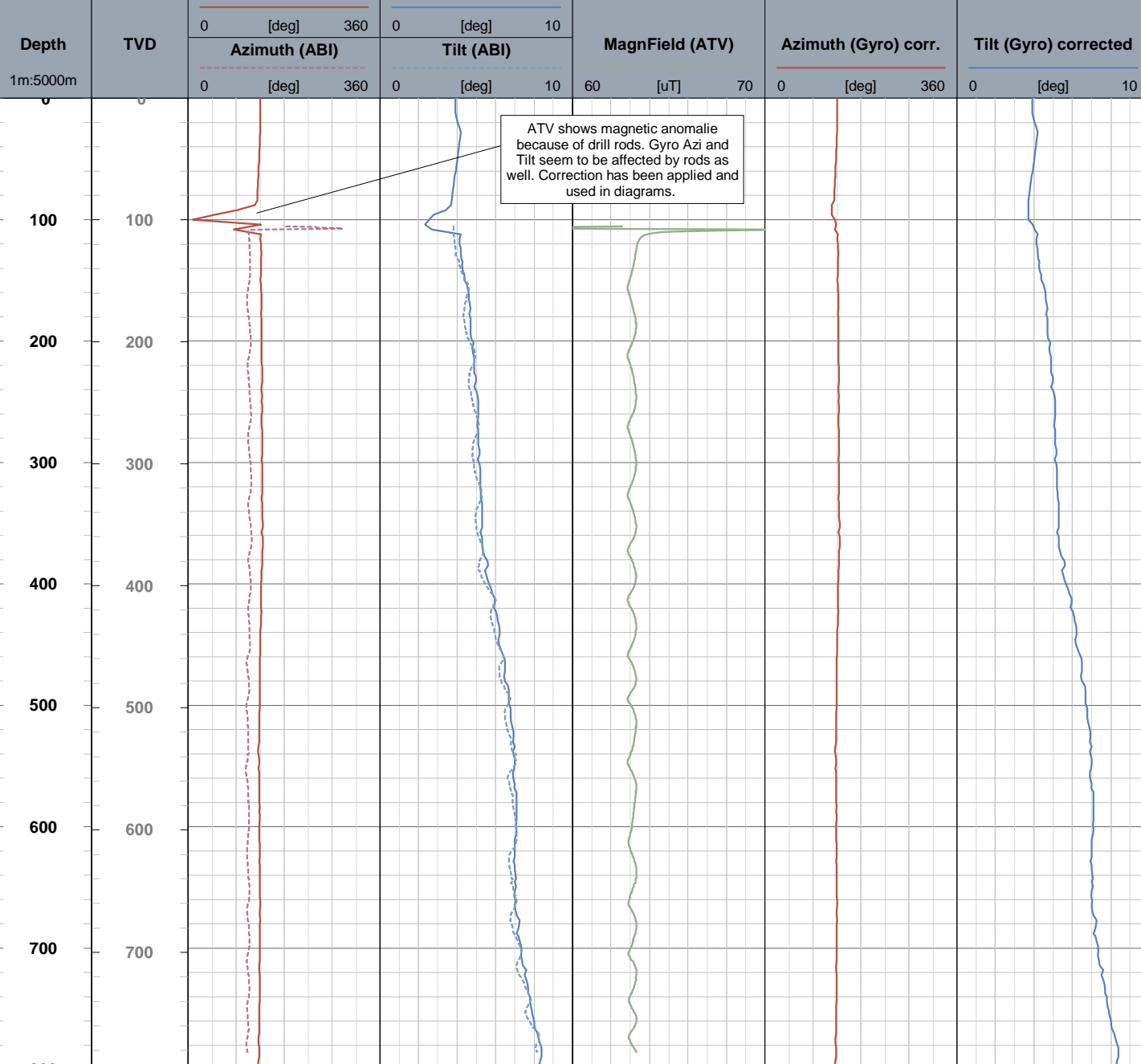
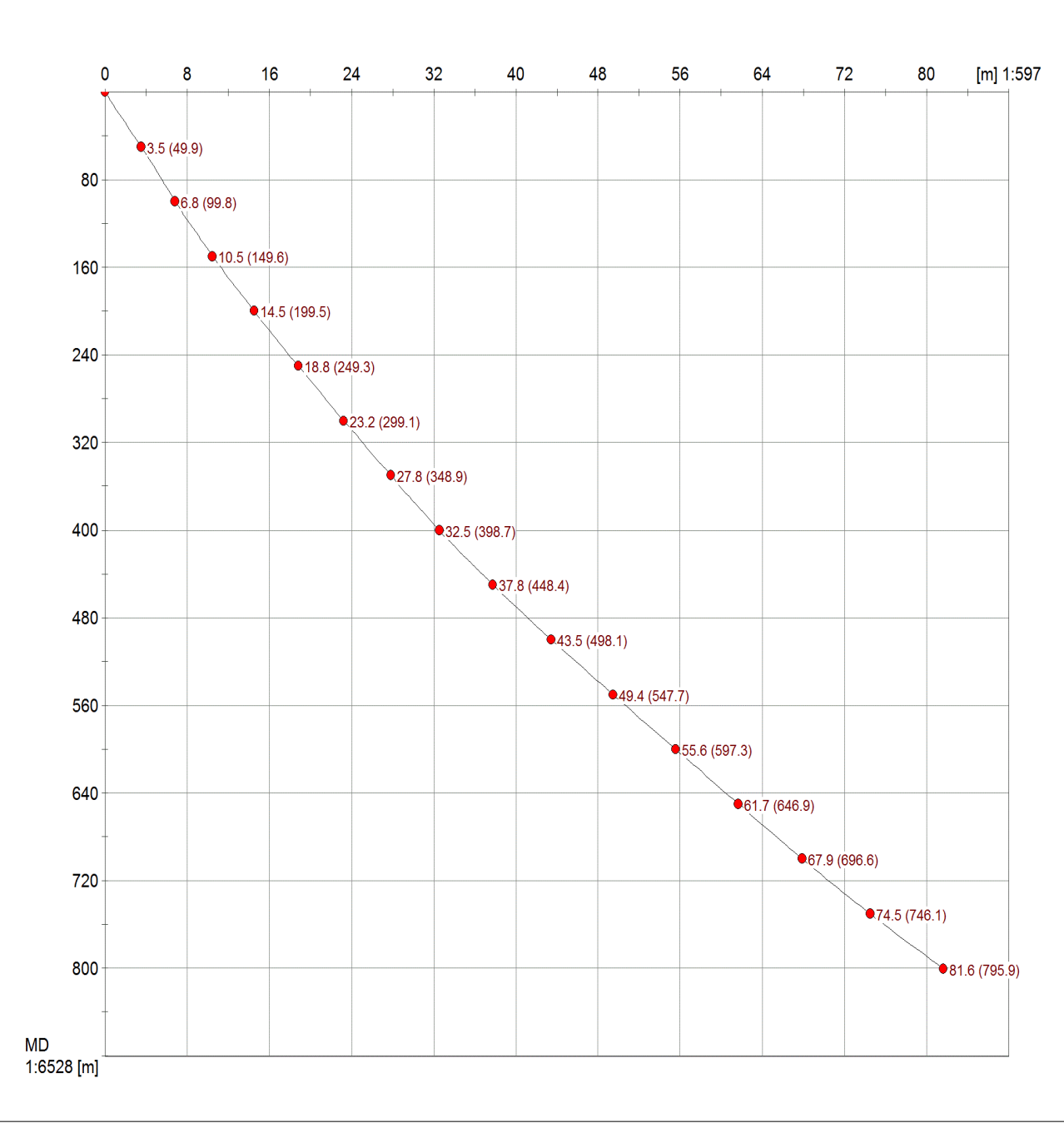
TOP VIEW PROJECTION (GYRO)



VERTICAL PROFILE PROJECTION (GYRO)



DRIFT FROM VERTICAL (GYRO)



DATA TABLE

Depth	TVD	Azimuth (Gyro)		Tilt (Gyro)		MagnField (ATV)	Azimuth (Gyro) corr.	Tilt (Gyro) corrected
		0	360	0	10			
		[deg]	[deg]	[deg]	[deg]	[uT]	[deg]	[deg]
0.00	0.00	135.10	360	3.90	10	60	0.01	-0.01
20.00	20.00	135.25	360	4.05	10	20.25	0.98	-0.99
40.00	40.00	134.06	360	4.10	10	40.20	2.00	-2.00
60.00	60.00	131.97	360	3.93	10	60.15	3.03	-2.96
80.00	80.00	129.98	360	3.75	10	80.11	4.04	-3.84
100.00	100.00	130.98	360	3.74	10	100.06	5.07	-4.62
120.00	120.00	136.40	360	4.13	10	120.01	6.09	-5.60
140.00	140.00	136.85	360	4.29	10	139.96	7.10	-6.68
160.00	160.00	137.41	360	4.59	10	159.90	8.16	-7.80
180.00	180.00	137.41	360	4.68	10	179.83	9.26	-8.99
200.00	200.00	138.06	360	4.81	10	199.77	10.35	-10.21
220.00	220.00	138.31	360	4.90	10	219.70	11.49	-11.47
240.00	240.00	137.99	360	4.97	10	239.62	12.63	-12.76
260.00	260.00	138.49	360	5.10	10	259.54	13.80	-14.09
280.00	280.00	139.12	360	5.10	10	279.46	14.98	-15.41
300.00	300.00	138.90	360	5.14	10	299.38	16.15	-16.76
320.00	320.00	139.16	360	5.20	10	319.30	17.34	-18.13
340.00	340.00	139.04	360	5.30	10	339.22	18.55	-19.50
360.00	360.00	139.36	360	5.28	10	359.13	19.75	-20.90
380.00	380.00	139.13	360	5.57	10	379.04	20.96	-22.32
400.00	400.00	137.25	360	5.67	10	398.95	22.26	-23.76
420.00	420.00	137.12	360	5.95	10	418.85	23.66	-25.25
440.00	440.00	135.82	360	6.20	10	438.73	25.12	-26.80
460.00	460.00	134.67	360	6.46	10	458.61	26.65	-28.36
480.00	480.00	134.99	360	6.51	10	478.49	28.25	-29.94
500.00	500.00	133.98	360	6.74	10	498.35	29.92	-31.57
520.00	520.00	133.33	360	6.91	10	518.21	31.64	-33.20
540.00	540.00	132.53	360	6.93	10	538.06	33.41	-34.83
560.00	560.00	133.35	360	6.93	10	557.91	35.19	-36.48
580.00	580.00	133.70	360	7.10	10	577.76	36.97	-38.17
600.00	600.00	133.38	360	7.08	10	597.61	38.75	-39.88
620.00	620.00	134.57	360	7.00	10	617.46	40.51	-41.58
640.00	640.00	134.67	360	7.05	10	637.31	42.26	-43.28
660.00	660.00	134.92	360	7.02	10	657.16	44.00	-45.00
680.00	680.00	134.72	360	7.21	10	677.01	45.74	-46.74
700.00	700.00	134.59	360	7.34	10	696.85	47.54	-48.51
720.00	720.00	133.57	360	7.55	10	716.68	49.34	-50.29
740.00	740.00	134.41	360	7.78	10	736.50	51.30	-52.15
760.00	760.00	133.35	360	7.99	10	756.32	53.28	-54.04
780.00	780.00	132.85	360	8.36	10	776.11	55.36	-55.98
800.00	800.00	130.43	360	8.24	10	795.90	57.51	-57.93

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