

M252 Mortar Elevation Charts for ArmA 2

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Standard HE 1000m

m	+0	+10	+20	+30	+40	+50	+60	+70	+80	+90	m
100	85,86	85,71	85,56	85,41	85,25	85,08	84,91	84,74	84,56	84,38	100
200	84,19	84,00	83,80	83,60	83,39	83,18	82,96	82,74	82,51	82,28	200
300	82,05	81,81	81,56	81,31	81,06	80,80	80,53	80,26	79,99	79,71	300
400	79,43	79,14	78,85	78,55	78,25	77,94	77,63	77,31	76,99	76,66	400
500	76,33	76,00	75,66	75,31	74,96	74,61	74,25	73,88	73,51	73,14	500
600	72,76	72,38	71,99	71,60	71,20	70,80	70,39	69,98	69,56	69,14	600
700	68,71	68,28	67,85	67,41	66,96	66,51	66,06	65,60	65,13	64,66	700
800	64,19	63,71	63,23	62,74	62,25	61,75	61,25	60,74	60,23	59,71	800
900	59,19	58,66	58,13	57,60	57,06	56,51	55,96	55,41	54,85	54,28	900
1000	53,71	53,14	52,56	51,98	51,39	50,80	50,20	49,60	48,99	48,38	1000
1100	47,76	47,14	46,51	45,88	45,25	44,61	43,96	43,31	42,66	42,00	1100
1200	41,33	40,66	39,99	39,31	38,63	37,94	37,25	36,55	35,85	35,14	1200
1300	34,43	33,71	32,99	32,26	31,53	30,80	30,06	29,31	28,56	27,81	1300
1400	27,05	26,28	25,51	24,74	23,96	23,18	22,39	21,60	20,80	20,00	1400
	+0	+10	+20	+30	+40	+50	+60	+70	+80	+90	

Calculation and data

e	d
85	172
79,9	357
75	511
70	659
65	784
60	886
55	965

The function is based on the gathered data above:

$y = -1/42000(x+200)^2+88$ where y is elevation and x is distance to target in meters

Simplified:

$$x * x + 400 * x - 3656000 = z$$

$$z / -42000 = y$$

Switch x for the distance to target in meters

Example:

Target is 321 meters away

$$321 * 321 + 400 * 321 - 3\ 656\ 000 = -3\ 424\ 559$$

$$-3\ 424\ 559 / -42\ 000 \approx 81,54$$

The elevation in this case is **81,54**