

SmartTool Angle Conversion Information

Degrees	% Slope	In/Ft	Degrees	% Slope	In/Ft	Degrees	% Slope	In/Ft	Raise 2 ft Rail "X" Inches			
									"X" In	Degrees	% Slope	Rise/Run
0	0	0	5.1	8.9	1.1	11	19.4	2.3	1	2.4	4.2	0.5
0.1	0.2	0	5.2	9.1	1.1	12	21.3	2.6	2	4.8	8.4	1
0.2	0.3	0	5.3	9.3	1.1	13	23.1	2.8	3	7.2	12.6	1.5
0.3	0.5	0.1	5.4	9.5	1.1	14	24.9	3	4	9.6	16.9	2
0.4	0.7	0.1	5.5	9.6	1.2	15	26.8	3.2	5	12	21.3	2.6
0.5	0.9	0.1	5.6	9.8	1.2	16	28.7	3.4	6	14.5	25.8	3.1
0.6	1	0.1	5.7	10	1.2	17	30.6	3.7	7	17	30.5	3.7
0.7	1.2	0.1	5.8	10.2	1.2	18	32.5	3.9	8	19.5	35.4	4.2
0.8	1.4	0.2	5.9	10.3	1.2	19	34.4	4.1	9	22	40.5	4.9
0.9	1.6	0.2	6	10.5	1.3	20	36.4	4.4	10	24.6	45.8	5.5
1	1.7	0.2	6.1	10.7	1.3	21	38.4	4.6	11	27.3	51.6	6.2
1.1	1.9	0.2	6.2	10.9	1.3	22	40.4	4.8	12	30	57.7	6.9
1.2	2.1	0.3	6.3	11	1.3	23	42.4	5.1				
1.3	2.3	0.3	6.4	11.2	1.3	24	44.5	5.3				
1.4	2.4	0.3	6.5	11.4	1.4	25	46.6	5.6				
1.5	2.6	0.3	6.6	11.6	1.4	26	48.8	5.9				
1.6	2.8	0.3	6.7	11.7	1.4	27	51	6.1				
1.7	3	0.4	6.8	11.9	1.4	28	53.2	6.4				
1.8	3.1	0.4	6.9	12.1	1.5	29	55.4	6.7				
1.9	3.3	0.4	7	12.3	1.5	30	57.7	6.9				
2	3.5	0.4	7.1	12.5	1.5	31	60.1	7.2				
2.1	3.7	0.4	7.2	12.6	1.5	32	62.5	7.5				
2.2	3.8	0.5	7.3	12.8	1.5	33	64.9	7.8				
2.3	4	0.5	7.4	13	1.6	34	67.5	8.1				
2.4	4.2	0.5	7.5	13.2	1.6	35	70	8.4				
2.5	4.4	0.5	7.6	13.3	1.6	36	72.7	8.7				
2.6	4.5	0.5	7.7	13.5	1.6	37	75.4	9				
2.7	4.7	0.6	7.8	13.7	1.6	38	78.1	9.4				
2.8	4.9	0.6	7.9	13.9	1.7	39	81	9.7				
2.9	5.1	0.6	8	14.1	1.7	40	83.9	10.1				
3	5.2	0.6	8.1	14.2	1.7	41	86.9	10.4				
3.1	5.4	0.6	8.2	14.4	1.7	42	90	10.8				
3.2	5.6	0.7	8.3	14.6	1.8	43	93.3	11.2				
3.3	5.8	0.7	8.4	14.8	1.8	44	96.6	11.6				
3.4	5.9	0.7	8.5	14.9	1.8	45	100	12				
3.5	6.1	0.7	8.6	15.1	1.8	46	96.6	12.4				
3.6	6.3	0.8	8.7	15.3	1.8	47	93.3	12.9				
3.7	6.5	0.8	8.8	15.5	1.9	48	90	13.3				
3.8	6.6	0.8	8.9	15.7	1.9	49	86.9	13.8				
3.9	6.8	0.8	9	15.8	1.9	50	83.9	14.3				
4	7	0.8	9.1	16	1.9	51	81	14.8				
4.1	7.2	0.9	9.2	16.2	1.9	52	78.1	15.4				
4.2	7.3	0.9	9.3	16.4	2	53	75.4	15.9				
4.3	7.5	0.9	9.4	16.6	2	54	72.7	16.5				
4.4	7.7	0.9	9.5	16.7	2	55	70	17.1				
4.5	7.9	0.9	9.6	16.9	2	56	67.5	17.8				
4.6	8	1	9.7	17.1	2.1	57	64.9	18.5				
4.7	8.2	1	9.8	17.3	2.1	58	62.5	19.2				
4.8	8.4	1	9.9	17.5	2.1	59	60.1	20				
4.9	8.6	1	10	17.6	2.1	60	57.7	20.8				
5	8.7	1				61	55.4	21.6				

% Slope
100 (TAN (degrees))

Inches/Foot
12 (TAN (degrees))