

DISTANCE by VERTICAL ANGLE.

$d = h \times \cot. \theta$. Where d = distance, h = height of object, and θ = vertical angle.

Distance in Miles and Cables.		Height of Object in Feet and Metres.												Distance in Miles and Cables.	
		ft. 100 m. 30-5	105 32-0	110 33-5	115 35-1	120 36-6	125 38-1	130 39-6	135 41-2	140 42-7	145 44-2	150 45-7	155 47-2		
0 0	0 1	9 20	9 48	10 15	10 43	11 10	11 37	12 4	12 31	12 58	13 25	13 52	14 18	0 0	0 1
0 0	0 2	4 42	4 56	5 10	5 24	5 38	5 52	6 6	6 20	6 34	6 48	7 2	7 16	0 0	0 2
0 0	0 3	3 8	3 18	3 27	3 36	3 46	3 55	4 5	4 14	4 23	4 33	4 42	4 51	0 0	0 3
0 0	0 4	2 21	2 28	2 35	2 42	2 49	2 57	3 4	3 11	3 18	3 25	3 32	3 39	0 0	0 4
0 0	0 5	1 53	1 59	2 4	2 10	2 16	2 21	2 27	2 33	2 38	2 44	2 49	2 55	0 0	0 5
0 0	0 6	1 34	1 39	1 44	1 48	1 53	1 58	2 2	2 7	2 12	2 17	2 21	2 26	0 0	0 6
0 0	0 7	1 21	1 25	1 29	1 33	1 37	1 41	1 45	1 49	1 53	1 57	2 1	2 5	0 0	0 7
0 0	0 8	1 11	1 14	1 18	1 21	1 25	1 28	1 32	1 35	1 39	1 42	1 46	1 50	0 0	0 8
0 0	0 9	1 3	1 6	1 9	1 12	1 15	1 19	1 22	1 25	1 28	1 31	1 34	1 37	0 0	0 9
1 1	1 0	0 57	0 59	1 2	1 5	1 8	1 11	1 14	1 16	1 19	1 22	1 25	1 26	1 1	1 0
1 1	1 1	0 51	0 54	0 57	0 59	1 2	1 4	1 7	1 9	1 12	1 15	1 17	1 20	1 1	1 1
1 1	1 2	0 47	0 49	0 52	0 54	0 57	0 59	1 1	1 4	1 6	1 8	1 11	1 13	1 1	1 2
1 1	1 3	0 44	0 46	0 48	0 50	0 52	0 54	0 57	0 59	1 1	1 3	1 5	1 7	1 1	1 3
1 1	1 4	0 40	0 42	0 44	0 46	0 48	0 51	0 53	0 55	0 57	0 59	1 1	1 3	1 1	1 4
1 1	1 5	0 38	0 40	0 41	0 43	0 45	0 47	0 49	0 51	0 53	0 55	0 57	0 58	1 1	1 5
1 1	1 6	0 35	0 37	0 39	0 41	0 42	0 44	0 46	0 48	0 49	0 51	0 53	0 55	1 1	1 6
1 1	1 7	0 33	0 35	0 37	0 38	0 40	0 42	0 43	0 45	0 47	0 48	0 50	0 52	1 1	1 7
1 1	1 8	0 31	0 33	0 35	0 36	0 38	0 39	0 41	0 42	0 44	0 46	0 47	0 49	1 1	1 8
1 1	1 9	0 30	0 31	0 33	0 34	0 36	0 37	0 39	0 40	0 42	0 43	0 45	0 46	1 1	1 9
2 2	2 0	0 28	0 30	0 31	0 33	0 34	0 35	0 37	0 38	0 40	0 41	0 42	0 44	2 2	2 0
2 2	2 1	0 27	0 28	0 30	0 31	0 32	0 34	0 35	0 36	0 38	0 39	0 40	0 42	2 2	2 1
2 2	2 2	0 26	0 27	0 28	0 30	0 31	0 32	0 33	0 35	0 36	0 37	0 39	0 40	2 2	2 2
2 2	2 3	0 25	0 26	0 27	0 28	0 30	0 31	0 32	0 33	0 34	0 36	0 37	0 38	2 2	2 3
2 2	2 4	0 24	0 25	0 26	0 27	0 28	0 29	0 31	0 32	0 33	0 34	0 35	0 37	2 2	2 4
2 2	2 5	0 23	0 24	0 25	0 26	0 27	0 28	0 29	0 31	0 32	0 33	0 34	0 35	2 2	2 5
2 2	2 6	0 22	0 23	0 24	0 25	0 26	0 27	0 28	0 29	0 30	0 32	0 33	0 34	2 2	2 6
2 2	2 7	0 21	0 22	0 23	0 24	0 25	0 26	0 27	0 28	0 29	0 30	0 31	0 32	2 2	2 7
2 2	2 8	0 20	0 21	0 22	0 23	0 24	0 25	0 26	0 25	0 28	0 29	0 30	0 31	2 2	2 8
2 2	2 9	0 20	0 20	0 21	0 22	0 23	0 24	0 25	0 26	0 27	0 28	0 29	0 30	2 2	2 9
3 3	3 0	0 19	0 20	0 21	0 22	0 23	0 24	0 25	0 25	0 26	0 27	0 28	0 29	3 3	3 0
3 3	3 2	0 18	0 19	0 19	0 20	0 21	0 22	0 23	0 24	0 25	0 26	0 27	0 27	3 3	3 2
3 3	3 4	0 17	0 18	0 18	0 19	0 20	0 21	0 22	0 22	0 23	0 24	0 25	0 26	3 3	3 4
3 3	3 6	0 16	0 16	0 17	0 18	0 19	0 20	0 20	0 21	0 22	0 23	0 24	0 24	3 3	3 6
3 3	3 8	0 15	0 16	0 16	0 17	0 18	0 19	0 19	0 20	0 21	0 22	0 22	0 23	3 3	3 8
4 4	4 0	0 14	0 15	0 16	0 16	0 17	0 18	0 18	0 19	0 20	0 21	0 21	0 22	4 4	4 0
4 4	4 2	0 14	0 15	0 15	0 16	0 16	0 17	0 17	0 18	0 19	0 20	0 20	0 21	4 4	4 2
4 4	4 4	0 13	0 14	0 14	0 15	0 15	0 16	0 17	0 17	0 18	0 19	0 19	0 20	4 4	4 4
4 4	4 6	0 13	0 14	0 14	0 15	0 15	0 16	0 16	0 16	0 17	0 18	0 18	0 19	4 4	4 6
4 4	4 8	0 12	0 13	0 13	0 14	0 14	0 15	0 15	0 15	0 16	0 17	0 18	0 18	4 4	4 8
5 5	5 0	0 11	0 12	0 12	0 13	0 14	0 14	0 15	0 15	0 16	0 16	0 17	0 17	5 5	5 0

$\tan. \theta = \frac{h}{d}$. Where θ = vertical angle, h = height of object, and d = distance.