PUB. NO. 229
VOL. 1

SIGHT REDUCTION TABLES

FOR

MARINE NAVIGATION

LATITUDES 0°–15°, Inclusive

NATIONAL IMAGERY AND MAPPING AGENCY

INTERPOLATION TABLE

Dec. Inc.	Altitude Difference (d)																Double Second Diff. and Corr.	
	Tens					Decimals ⇓	Units											
	10′	20′	30′	40′	50′		0′	1′	2′	3′	4′	5′	6′	7′	8′	9′		
′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′
0.0	0.0	0.0	0.0	0.0	0.0	**.0**	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1		
0.1	0.0	0.0	0.0	0.0	0.1	**.1**	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1		
0.2	0.0	0.0	0.1	0.1	0.1	**.2**	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.0 48.2	0.0
0.3	0.0	0.1	0.1	0.2	0.2	**.3**	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1		
0.4	0.1	0.1	0.2	0.3	0.3	**.4**	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1		
0.5	0.1	0.2	0.3	0.3	0.4	**.5**	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1		
0.6	0.1	0.2	0.3	0.4	0.5	**.6**	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1		
0.7	0.1	0.3	0.4	0.5	0.6	**.7**	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	16.2 48.6	0.1
0.8	0.2	0.3	0.4	0.6	0.7	**.8**	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1		
0.9	0.2	0.3	0.5	0.6	0.8	**.9**	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1		
1.0	0.1	0.3	0.5	0.6	0.8	**.0**	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.2	0.2	0.2		
1.1	0.2	0.3	0.5	0.7	0.9	**.1**	0.0	0.0	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2		
1.2	0.2	0.4	0.6	0.8	1.0	**.2**	0.0	0.0	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2		
1.3	0.2	0.4	0.6	0.9	1.1	**.3**	0.0	0.0	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2		
1.4	0.2	0.5	0.7	0.9	1.2	**.4**	0.0	0.0	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	8.2 24.6 41.0	0.1 0.2
1.5	0.3	0.5	0.8	1.0	1.3	**.5**	0.0	0.0	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2		
1.6	0.3	0.5	0.8	1.1	1.3	**.6**	0.0	0.0	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2		
1.7	0.3	0.6	0.9	1.2	1.4	**.7**	0.0	0.0	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2		
1.8	0.3	0.6	0.9	1.2	1.5	**.8**	0.0	0.0	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2		
1.9	0.4	0.7	1.0	1.3	1.6	**.9**	0.0	0.0	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2		
2.0	0.3	0.6	1.0	1.3	1.6	**.0**	0.0	0.0	0.1	0.1	0.2	0.2	0.2	0.3	0.3	0.4		
2.1	0.3	0.7	1.0	1.4	1.7	**.1**	0.0	0.0	0.1	0.1	0.2	0.2	0.3	0.3	0.3	0.4		
2.2	0.3	0.7	1.1	1.4	1.8	**.2**	0.0	0.0	0.1	0.1	0.2	0.2	0.3	0.3	0.3	0.4		
2.3	0.4	0.8	1.1	1.5	1.9	**.3**	0.0	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.3	0.4		
2.4	0.4	0.8	1.2	1.6	2.0	**.4**	0.0	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.3	0.4	5.0 15.0 25.0 35.1	0.1 0.2 0.3
2.5	0.4	0.8	1.3	1.7	2.1	**.5**	0.0	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.4		
2.6	0.4	0.9	1.3	1.7	2.2	**.6**	0.0	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.4		
2.7	0.5	0.9	1.4	1.8	2.3	**.7**	0.0	0.1	0.1	0.2	0.2	0.2	0.3	0.3	0.4	0.4		
2.8	0.5	1.0	1.4	1.9	2.4	**.8**	0.0	0.1	0.1	0.2	0.2	0.2	0.3	0.3	0.4	0.4		
2.9	0.5	1.0	1.5	2.0	2.5	**.9**	0.0	0.1	0.1	0.2	0.2	0.2	0.3	0.3	0.4	0.4		
3.0	0.5	1.0	1.5	2.0	2.5	**.0**	0.0	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.5		
3.1	0.5	1.0	1.5	2.0	2.6	**.1**	0.0	0.1	0.1	0.2	0.2	0.3	0.4	0.4	0.5	0.5		
3.2	0.5	1.0	1.6	2.1	2.6	**.2**	0.0	0.1	0.1	0.2	0.2	0.3	0.4	0.4	0.5	0.5		
3.3	0.5	1.1	1.6	2.2	2.7	**.3**	0.0	0.1	0.1	0.2	0.3	0.3	0.4	0.4	0.5	0.5	3.6 10.9 18.2 25.5 32.8 40.1	0.1 0.2 0.3 0.4 0.5
3.4	0.6	1.1	1.7	2.3	2.8	**.4**	0.0	0.1	0.1	0.2	0.3	0.3	0.4	0.4	0.5	0.5		
3.5	0.6	1.2	1.8	2.3	2.9	**.5**	0.0	0.1	0.1	0.2	0.3	0.3	0.4	0.4	0.5	0.6		
3.6	0.6	1.2	1.8	2.4	3.0	**.6**	0.0	0.1	0.2	0.2	0.3	0.3	0.4	0.4	0.5	0.6		
3.7	0.6	1.3	1.9	2.5	3.1	**.7**	0.0	0.1	0.2	0.2	0.3	0.3	0.4	0.4	0.5	0.6		
3.8	0.7	1.3	1.9	2.6	3.2	**.8**	0.0	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.5	0.6		
3.9	0.7	1.3	2.0	2.6	3.3	**.9**	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.5	0.6		
4.0	0.6	1.3	2.0	2.6	3.3	**.0**	0.0	0.1	0.1	0.2	0.3	0.4	0.4	0.5	0.6	0.7		
4.1	0.7	1.3	2.0	2.7	3.4	**.1**	0.0	0.1	0.2	0.2	0.3	0.4	0.5	0.5	0.6	0.7		
4.2	0.7	1.4	2.1	2.8	3.5	**.2**	0.0	0.1	0.2	0.2	0.3	0.4	0.5	0.5	0.6	0.7	2.9 8.6 14.4 20.2 25.9 31.7 37.5	0.1 0.2 0.3 0.4 0.5 0.6
4.3	0.7	1.4	2.1	2.9	3.6	**.3**	0.0	0.1	0.2	0.2	0.3	0.4	0.5	0.5	0.6	0.7		
4.4	0.7	1.5	2.2	2.9	3.7	**.4**	0.0	0.1	0.2	0.3	0.3	0.4	0.5	0.6	0.6	0.7		
4.5	0.8	1.5	2.3	3.0	3.8	**.5**	0.0	0.1	0.2	0.3	0.3	0.4	0.5	0.6	0.6	0.7		
4.6	0.8	1.5	2.3	3.1	3.8	**.6**	0.0	0.1	0.2	0.3	0.3	0.4	0.5	0.6	0.6	0.7		
4.7	0.8	1.6	2.4	3.2	3.9	**.7**	0.1	0.1	0.2	0.3	0.4	0.4	0.5	0.6	0.7	0.7		
4.8	0.8	1.6	2.4	3.2	4.0	**.8**	0.1	0.1	0.2	0.3	0.4	0.4	0.5	0.6	0.7	0.7		
4.9	0.9	1.7	2.5	3.3	4.1	**.9**	0.1	0.1	0.2	0.3	0.4	0.4	0.5	0.6	0.7	0.7		
5.0	0.8	1.6	2.5	3.3	4.1	**.0**	0.0	0.1	0.2	0.3	0.4	0.5	0.5	0.6	0.7	0.8		
5.1	0.8	1.7	2.5	3.4	4.2	**.1**	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.7	0.8		
5.2	0.8	1.7	2.6	3.4	4.3	**.2**	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.8	2.4 7.2 12.0 16.8 21.6 26.4 31.2 36.0	0.1 0.2 0.3 0.4 0.5 0.6 0.7
5.3	0.9	1.8	2.6	3.5	4.4	**.3**	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9		
5.4	0.9	1.8	2.7	3.6	4.5	**.4**	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9		
5.5	0.9	1.8	2.8	3.7	4.6	**.5**	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9		
5.6	0.9	1.9	2.8	3.7	4.7	**.6**	0.1	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9		
5.7	1.0	1.9	2.9	3.8	4.8	**.7**	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9		
5.8	1.0	2.0	2.9	3.9	4.9	**.8**	0.1	0.2	0.3	0.3	0.4	0.5	0.6	0.7	0.8	0.9		
5.9	1.0	2.0	3.0	4.0	5.0	**.9**	0.1	0.2	0.3	0.4	0.4	0.5	0.6	0.7	0.8	0.9		
6.0	1.0	2.0	3.0	4.0	5.0	**.0**	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.8	0.9	1.0		
6.1	1.0	2.0	3.0	4.0	5.1	**.1**	0.0	0.1	0.2	0.3	0.4	0.6	0.7	0.8	0.9	1.0		
6.2	1.0	2.0	3.1	4.1	5.1	**.2**	0.0	0.1	0.2	0.3	0.5	0.6	0.7	0.8	0.9	1.0	2.1 6.2 10.4 14.5 18.6 22.8 26.9 31.1 35.2	0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8
6.3	1.0	2.1	3.1	4.2	5.2	**.3**	0.0	0.1	0.2	0.4	0.5	0.6	0.7	0.8	0.9	1.0		
6.4	1.1	2.1	3.2	4.3	5.3	**.4**	0.0	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0		
6.5	1.1	2.2	3.3	4.3	5.4	**.5**	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0		
6.6	1.1	2.2	3.3	4.4	5.5	**.6**	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0		
6.7	1.1	2.3	3.4	4.5	5.6	**.7**	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.1		
6.8	1.2	2.3	3.4	4.6	5.7	**.8**	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	1.0	1.1		
6.9	1.2	2.3	3.5	4.6	5.8	**.9**	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.0	1.1		
7.0	1.1	2.3	3.5	4.6	5.8	**.0**	0.0	0.1	0.2	0.4	0.5	0.6	0.7	0.9	1.0	1.1		
7.1	1.2	2.3	3.5	4.7	5.9	**.1**	0.0	0.1	0.3	0.4	0.5	0.6	0.8	0.9	1.0	1.1		
7.2	1.2	2.4	3.6	4.8	6.0	**.2**	0.0	0.1	0.3	0.4	0.5	0.6	0.8	0.9	1.0	1.1	1.8 5.5 9.1 12.8 16.5 20.1 23.8 27.4 31.1 34.7	0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9
7.3	1.2	2.4	3.6	4.9	6.1	**.3**	0.0	0.2	0.3	0.4	0.5	0.7	0.8	0.9	1.0	1.2		
7.4	1.2	2.5	3.7	4.9	6.2	**.4**	0.0	0.2	0.3	0.4	0.5	0.7	0.8	0.9	1.0	1.2		
7.5	1.3	2.5	3.8	5.0	6.3	**.5**	0.1	0.2	0.3	0.4	0.6	0.7	0.8	0.9	1.1	1.2		
7.6	1.3	2.5	3.8	5.1	6.3	**.6**	0.1	0.2	0.3	0.4	0.6	0.7	0.8	0.9	1.1	1.2		
7.7	1.3	2.6	3.9	5.2	6.4	**.7**	0.1	0.2	0.3	0.5	0.6	0.7	0.8	1.0	1.1	1.2		
7.8	1.3	2.6	3.9	5.2	6.5	**.8**	0.1	0.2	0.3	0.5	0.6	0.7	0.8	1.0	1.1	1.2		
7.9	1.4	2.7	4.0	5.3	6.6	**.9**	0.1	0.2	0.4	0.5	0.6	0.7	0.9	1.0	1.1	1.2		
	10′	20′	30′	40′	50′		0′	1′	2′	3′	4′	5′	6′	7′	8′	9′		

Dec. Inc.	Altitude Difference (d)																Double Second Diff. and Corr.	
	Tens					Decimals ⇓	Units											
	10′	20′	30′	40′	50′		0′	1′	2′	3′	4′	5′	6′	7′	8′	9′		
′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′
8.0	1.3	2.6	4.0	5.3	6.6	**.0**	0.0	0.1	0.3	0.4	0.6	0.7	0.8	1.0	1.1	1.3		
8.1	1.3	2.7	4.0	5.4	6.7	**.1**	0.0	0.2	0.3	0.4	0.6	0.7	0.9	1.0	1.1	1.3		
8.2	1.3	2.7	4.1	5.4	6.8	**.2**	0.0	0.2	0.3	0.5	0.6	0.7	0.9	1.0	1.2	1.3	1.6 4.8 8.0 11.2 14.5 17.7 20.9 24.1 27.3 30.5 33.7 36.9	0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1.0 1.1
8.3	1.4	2.8	4.1	5.5	6.9	**.3**	0.0	0.2	0.3	0.5	0.6	0.8	0.9	1.0	1.2	1.3		
8.4	1.4	2.8	4.2	5.6	7.0	**.4**	0.1	0.2	0.3	0.5	0.6	0.8	0.9	1.0	1.2	1.3		
8.5	1.4	2.8	4.3	5.7	7.1	**.5**	0.1	0.2	0.4	0.5	0.6	0.8	0.9	1.1	1.2	1.3		
8.6	1.4	2.9	4.3	5.7	7.2	**.6**	0.1	0.2	0.4	0.5	0.7	0.8	0.9	1.1	1.2	1.4		
8.7	1.5	2.9	4.4	5.8	7.3	**.7**	0.1	0.2	0.4	0.5	0.7	0.8	0.9	1.1	1.2	1.4		
8.8	1.5	3.0	4.4	5.9	7.4	**.8**	0.1	0.3	0.4	0.5	0.7	0.8	1.0	1.1	1.2	1.4		
8.9	1.5	3.0	4.5	6.0	7.5	**.9**	0.1	0.3	0.4	0.6	0.7	0.8	1.0	1.1	1.3	1.4		
9.0	1.5	3.0	4.5	6.0	7.5	**.0**	0.0	0.2	0.3	0.5	0.6	0.8	0.9	1.1	1.3	1.4		
9.1	1.5	3.0	4.5	6.0	7.6	**.1**	0.0	0.2	0.3	0.5	0.6	0.8	1.0	1.1	1.3	1.4		
9.2	1.5	3.0	4.6	6.1	7.6	**.2**	0.0	0.2	0.3	0.5	0.7	0.8	1.0	1.1	1.3	1.5		
9.3	1.5	3.1	4.6	6.2	7.7	**.3**	0.0	0.2	0.4	0.5	0.7	0.8	1.0	1.2	1.3	1.5		
9.4	1.6	3.1	4.7	6.3	7.8	**.4**	0.1	0.2	0.4	0.5	0.7	0.9	1.0	1.2	1.3	1.5		
9.5	1.6	3.2	4.8	6.3	7.9	**.5**	0.1	0.2	0.4	0.6	0.7	0.9	1.0	1.2	1.3	1.5		
9.6	1.6	3.2	4.8	6.4	8.0	**.6**	0.1	0.3	0.4	0.6	0.7	0.9	1.0	1.2	1.4	1.5		
9.7	1.6	3.3	4.9	6.5	8.1	**.7**	0.1	0.3	0.4	0.6	0.7	0.9	1.1	1.2	1.4	1.5	1.4 4.2 7.1 9.9 12.7 15.5 18.4 21.2 24.0 26.8 29.7 32.5 35.3	0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1.0 1.1 1.2
9.8	1.7	3.3	4.9	6.6	8.2	**.8**	0.1	0.3	0.4	0.6	0.8	0.9	1.1	1.2	1.4	1.6		
9.9	1.7	3.3	5.0	6.6	8.3	**.9**	0.1	0.3	0.5	0.6	0.8	0.9	1.1	1.3	1.4	1.6		
10.0	1.6	3.3	5.0	6.6	8.3	**.0**	0.0	0.2	0.3	0.5	0.7	0.9	1.0	1.2	1.4	1.6		
10.1	1.7	3.3	5.0	6.7	8.4	**.1**	0.0	0.2	0.4	0.5	0.7	0.9	1.1	1.2	1.4	1.6		
10.2	1.7	3.4	5.1	6.8	8.5	**.2**	0.0	0.2	0.4	0.6	0.7	0.9	1.1	1.3	1.4	1.6		
10.3	1.7	3.4	5.1	6.9	8.6	**.3**	0.1	0.2	0.4	0.6	0.8	0.9	1.1	1.3	1.5	1.6		
10.4	1.7	3.5	5.2	6.9	8.7	**.4**	0.1	0.2	0.4	0.6	0.8	0.9	1.1	1.3	1.5	1.6		
10.5	1.8	3.5	5.3	7.0	8.8	**.5**	0.1	0.3	0.4	0.6	0.8	1.0	1.1	1.3	1.5	1.7		
10.6	1.8	3.5	5.3	7.1	8.8	**.6**	0.1	0.3	0.5	0.6	0.8	1.0	1.2	1.3	1.5	1.7		
10.7	1.8	3.6	5.4	7.2	8.9	**.7**	0.1	0.3	0.5	0.6	0.8	1.0	1.2	1.3	1.5	1.7		
10.8	1.8	3.6	5.4	7.2	9.0	**.8**	0.1	0.3	0.5	0.7	0.8	1.0	1.2	1.4	1.5	1.7		
10.9	1.9	3.7	5.5	7.3	9.1	**.9**	0.2	0.3	0.5	0.7	0.9	1.0	1.2	1.4	1.6	1.7		
11.0	1.8	3.6	5.5	7.3	9.1	**.0**	0.0	0.2	0.4	0.6	0.8	1.0	1.1	1.3	1.5	1.7		
11.1	1.8	3.7	5.5	7.4	9.2	**.1**	0.0	0.2	0.4	0.6	0.8	1.0	1.2	1.4	1.6	1.7		
11.2	1.8	3.7	5.6	7.4	9.3	**.2**	0.0	0.2	0.4	0.6	0.8	1.0	1.2	1.4	1.6	1.8		
11.3	1.9	3.8	5.6	7.5	9.4	**.3**	0.1	0.2	0.4	0.6	0.8	1.0	1.2	1.4	1.6	1.8	1.3 3.8 6.3 8.9 11.4 14.0 16.5 19.0 21.6 24.1 26.7 29.2 31.7 34.3	0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1.0 1.1 1.2 1.3
11.4	1.9	3.8	5.7	7.6	9.5	**.4**	0.1	0.3	0.5	0.7	0.8	1.0	1.2	1.4	1.6	1.8		
11.5	1.9	3.8	5.8	7.7	9.6	**.5**	0.1	0.3	0.5	0.7	0.9	1.1	1.2	1.4	1.6	1.8		
11.6	1.9	3.9	5.8	7.7	9.7	**.6**	0.1	0.3	0.5	0.7	0.9	1.1	1.3	1.5	1.6	1.8		
11.7	2.0	3.9	5.9	7.8	9.8	**.7**	0.1	0.3	0.5	0.7	0.9	1.1	1.3	1.5	1.7	1.9		
11.8	2.0	4.0	5.9	7.9	9.9	**.8**	0.2	0.3	0.5	0.7	0.9	1.1	1.3	1.5	1.7	1.9		
11.9	2.0	4.0	6.0	8.0	10.0	**.9**	0.2	0.4	0.6	0.7	0.9	1.1	1.3	1.5	1.7	1.9		
12.0	2.0	4.0	6.0	8.0	10.0	**.0**	0.0	0.2	0.4	0.6	0.8	1.0	1.2	1.5	1.7	1.9		
12.1	2.0	4.0	6.0	8.0	10.1	**.1**	0.0	0.2	0.4	0.6	0.9	1.1	1.3	1.5	1.7	1.9		
12.2	2.0	4.0	6.1	8.1	10.1	**.2**	0.0	0.2	0.5	0.7	0.9	1.1	1.3	1.5	1.7	1.9		
12.3	2.0	4.1	6.1	8.2	10.2	**.3**	0.1	0.3	0.5	0.7	0.9	1.1	1.3	1.5	1.7	1.9		
12.4	2.1	4.1	6.2	8.3	10.3	**.4**	0.1	0.3	0.5	0.7	0.9	1.1	1.3	1.5	1.7	2.0		
12.5	2.1	4.2	6.3	8.3	10.4	**.5**	0.1	0.3	0.5	0.7	0.9	1.1	1.4	1.6	1.8	2.0		
12.6	2.1	4.2	6.3	8.4	10.5	**.6**	0.1	0.3	0.5	0.7	1.0	1.2	1.4	1.6	1.8	2.0		
12.7	2.1	4.3	6.4	8.5	10.6	**.7**	0.1	0.4	0.6	0.8	1.0	1.2	1.4	1.6	1.8	2.0		
12.8	2.2	4.3	6.4	8.6	10.7	**.8**	0.2	0.4	0.6	0.8	1.0	1.2	1.4	1.6	1.8	2.0	1.2 3.5 5.8 8.1 10.5 12.8 15.1 17.4 19.8 22.1 24.4 26.7 29.1 31.4 33.7 36.0	0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1.0 1.1 1.2 1.3 1.4 1.5
12.9	2.2	4.3	6.5	8.6	10.8	**.9**	0.2	0.4	0.6	0.8	1.0	1.2	1.4	1.6	1.9	2.1		
13.0	2.1	4.3	6.5	8.6	10.8	**.0**	0.0	0.2	0.4	0.7	0.9	1.1	1.3	1.6	1.8	2.0		
13.1	2.2	4.3	6.5	8.7	10.9	**.1**	0.0	0.2	0.5	0.7	0.9	1.1	1.4	1.6	1.8	2.0		
13.2	2.2	4.4	6.6	8.8	11.0	**.2**	0.0	0.3	0.5	0.7	0.9	1.2	1.4	1.6	1.8	2.1		
13.3	2.2	4.4	6.6	8.9	11.1	**.3**	0.1	0.3	0.5	0.7	1.0	1.2	1.4	1.6	1.9	2.1		
13.4	2.2	4.5	6.7	8.9	11.2	**.4**	0.1	0.3	0.5	0.8	1.0	1.2	1.4

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