

TABELA 3
DISTÂNCIA A OBJECTOS AQUÉM-HORIZONTE

D (milhas)	ALTITUDE DO OBJECTO (metros)														D (milhas)	
	10	11	12	13	14	15	16	17	18	19	20	22	24	26		28
.1	3° 05'	3° 24'	3° 42'	4° 00'	4° 19'	4° 37'	4° 56'	5° 14'	5° 32'	5° 51'	6° 09'	6° 46'	7° 22'	7° 58'	8° 35'	.1
.2	1 33	1 42	1 51	2 00	2 10	2 19	2 28	2 37	2 47	2 56	3 05	3 24	3 42	4 00	4 19	.2
.3	1 02	1 08	1 14	1 20	1 26	1 33	1 39	1 45	1 51	1 57	2 03	2 16	2 28	2 40	2 53	.3
.4	46	51	56	1 00	1 05	1 09	1 14	1 19	1 23	1 28	1 33	1 42	1 51	2 00	2 10	.4
.5	37	41	44	48	52	56	59	03	07	10	14	1 21	1 29	1 36	1 44	.5
.6	31	34	37	40	43	46	49	52	56	59	02	1 08	1 14	1 20	1 26	.6
.7	26	29	32	34	37	40	42	45	48	50	53	58	1 03	1 09	1 14	.7
.8	23	25	28	30	32	35	37	39	42	44	46	51	56	00	05	.8
.9	21	23	25	27	29	31	33	35	37	39	41	45	49	54	58	.9
1.0	19'	20'	22'	24'	26'	28'	30'	31'	33'	35'	37'	41'	44'	48'	52'	1.0
.1	17	19	20	22	24	25	27	29	30	32	34	37	40	44	47	.1
.2	15	17	19	20	22	23	25	26	28	29	31	34	37	40	43	.2
.3	14	16	17	19	20	21	23	24	26	27	28	31	34	37	40	.3
.4	13	15	16	17	19	20	21	22	24	25	26	29	32	34	37	.4
.5	12	14	15	16	17	19	20	21	22	23	25	27	30	32	35	.5
.6	12	13	14	15	16	17	19	20	21	22	23	25	28	30	32	.6
.7	11	12	13	14	15	16	17	19	20	21	22	24	26	28	31	.7
.8	10	11	12	13	14	15	16	17	19	20	21	23	25	27	29	.8
.9	10	11	12	13	14	15	16	17	18	19	20	21	23	25	27	.9
2.0	09'	10'	11'	12'	13'	14'	15'	16'	17'	18'	19'	20'	22'	24'	26'	2.0
.1	09	10	11	11	12	13	14	15	16	17	18	19	21	23	25	.1
.2	08	09	10	11	12	13	13	14	15	16	17	19	20	22	24	.2
.3	08	09	10	10	11	12	13	14	14	15	16	18	19	21	23	.3
.4	08	08	09	10	11	12	12	13	14	15	15	17	19	20	22	.4
.5	07	08	09	10	10	11	12	13	13	14	15	16	18	19	21	.5
.6	07	08	09	09	10	11	11	12	13	14	14	16	17	19	20	.6
.7	07	08	08	09	10	10	11	12	12	13	14	15	16	18	19	.7
.8	07	07	08	09	09	10	11	11	12	13	13	15	16	17	19	.8
.9	06	07	08	08	09	10	10	11	11	12	13	14	15	17	18	.9
3.0	06'	07'	07'	08'	09'	09'	10'	10'	11'	12'	12'	14'	15'	16'	17'	3.0
.2	06	06	07	08	08	09	09	10	10	11	12	13	14	15	16	.2
.4	05	06	07	07	08	08	09	09	10	10	11	12	13	14	15	.4
.6	05	06	06	07	07	08	08	09	09	10	10	11	12	13	14	.6
.8	*	05	06	06	07	07	08	08	09	09	10	11	12	13	14	.8
4.0	*	05'	06'	06'	06'	07'	07'	08'	08'	09'	09'	10'	11'	12'	13'	4.0
.2	*	*	05	06	06	07	07	07	08	08	09	10	11	11	12	.2
.4	*	*	05	05	06	06	07	07	08	08	08	09	10	11	12	.4
.6	*	*	*	05	06	06	06	07	07	08	08	09	10	10	11	.6
.8	*	*	*	05	05	06	06	07	07	07	08	08	09	10	11	.8
5.0	*	*	*	*	05'	06'	06'	06'	07'	07'	07'	08'	09'	10'	10'	5.0
.2	*	*	*	*	*	05	06	06	06	07	07	08	09	09	10	.2
.4	*	*	*	*	*	05	05	06	06	06	07	07	08	08	10	.4
.6	*	*	*	*	*	*	05	06	06	06	07	07	08	08	09	.6
.8	*	*	*	*	*	*	05	05	06	06	06	07	08	08	09	.8
6.0	*	*	*	*	*	*	*	05'	06'	06'	06'	07'	07'	08'	09'	6.0
.2	*	*	*	*	*	*	*	05	05	06	06	07	07	08	08	.2
.4	*	*	*	*	*	*	*	*	05	05	06	06	07	08	08	.4
.6	*	*	*	*	*	*	*	*	05	05	06	06	07	07	08	.6
.8	*	*	*	*	*	*	*	*	05	05	06	06	07	07	08	.8
7.0	*	*	*	*	*	*	*	*	05'	05'	06'	06'	07'	07'	07'	7.0
.2	*	*	*	*	*	*	*	*	*	05	05	06	06	07	07	.2
.4	*	*	*	*	*	*	*	*	*	*	05	06	06	07	07	.4
.6	*	*	*	*	*	*	*	*	*	*	*	05	06	06	07	.6
.8	*	*	*	*	*	*	*	*	*	*	*	05	06	06	07	.8
8.0	*	*	*	*	*	*	*	*	*	*	*	05'	06'	06'	06'	8.0
.2	*	*	*	*	*	*	*	*	*	*	*	*	05	06	06	.2
.4	*	*	*	*	*	*	*	*	*	*	*	*	05	06	06	.4
.6	*	*	*	*	*	*	*	*	*	*	*	*	05	06	06	.6
.8	*	*	*	*	*	*	*	*	*	*	*	*	05	06	06	.8
9.0	*	*	*	*	*	*	*	*	*	*	*	*	*	05'	06'	9.0
.2	*	*	*	*	*	*	*	*	*	*	*	*	*	05	06	.2
.4	*	*	*	*	*	*	*	*	*	*	*	*	*	05	06	.4
.6	*	*	*	*	*	*	*	*	*	*	*	*	*	05	06	.6
.8	*	*	*	*	*	*	*	*	*	*	*	*	*	05	06	.8
10.0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	05'	10.0
D (milhas)	10	11	12	13	14	15	16	17	18	19	20	22	24	26	28	D (milhas)

TABELA 3
DISTÂNCIA A OBJECTOS AQUÉM-HORIZONTE

D (milhas)	ALTITUDE DO OBJECTO (metros)															D (milhas)
	30	32	34	36	38	40	42	44	46	48	50	52	54	56	58	
.1	9° 11'	9° 47'	10° 23'	10° 59'	11° 34'	12° 10'	12° 45'	13° 20'	13° 55'	14° 30'	15° 05'	15° 39'	16° 13'	16° 47'	17° 21'	.1
.2	4 37	4 56	5 14	5 32	5 51	6 09	6 27	6 46	7 04	7 22	7 40	7 58	8 17	8 35	8 53	.2
.3	3 05	3 17	3 30	3 42	3 54	4 07	4 19	4 31	4 43	4 56	5 08	5 20	5 32	5 45	5 57	.3
.4	2 19	2 28	2 37	2 47	2 56	3 05	3 14	3 24	3 33	3 42	3 51	4 00	4 10	4 19	4 28	.4
.5	1 51	1 58	2 06	2 13	2 21	2 28	2 35	2 43	2 50	2 58	3 05	3 12	3 20	3 27	3 35	.5
.6	1 33	1 39	1 45	1 51	1 57	2 03	2 10	2 16	2 22	2 28	2 34	2 40	2 47	2 53	2 59	.6
.7	1 19	1 25	1 30	1 35	1 41	1 46	1 51	1 56	2 02	2 07	2 12	2 18	2 23	2 28	2 33	.7
.8	1 09	1 14	1 19	1 23	1 28	1 33	1 37	1 42	1 46	1 51	1 56	2 00	2 05	2 10	2 14	.8
.9	1 02	1 06	1 10	1 14	1 18	1 22	1 26	1 31	1 35	1 39	1 43	1 47	1 51	1 55	1 59	.9
1.0	56'	59'	1° 03'	1° 07'	1° 10'	1° 14'	1° 18'	1° 21'	1° 25'	1° 29'	1° 33'	1° 36'	1° 40'	1° 44'	1° 47'	1.0
.1	51	54	57	1 01	1 04	1 07	1 11	1 14	1 17	1 21	1 24	1 28	1 31	1 34	1 38	.1
.2	46	49	52	56	59	1 02	1 05	1 08	1 11	1 14	1 17	1 20	1 23	1 26	1 30	.2
.3	43	46	48	51	54	57	60	1 03	1 06	1 08	1 11	1 14	1 17	1 20	1 23	.3
.4	40	42	45	48	50	53	56	58	1 01	1 03	1 06	1 09	1 11	1 14	1 17	.4
.5	37	40	42	44	47	49	52	54	57	59	1 02	1 04	1 07	1 09	1 12	.5
.6	35	37	39	42	44	46	49	51	53	56	58	1 00	1 03	1 05	1 07	.6
.7	33	35	37	39	41	44	46	48	50	52	54	57	59	1 01	1 03	.7
.8	31	33	35	37	39	41	43	45	47	49	51	54	56	58	60	.8
.9	29	31	33	35	37	39	41	43	45	47	49	51	53	55	57	.9
2.0	28'	30'	31'	33'	35'	37'	39'	41'	43'	44'	46'	48'	50'	52'	54'	2.0
.1	26	28	30	32	34	35	37	39	41	42	44	46	48	49	51	.1
.2	25	27	29	30	32	34	35	37	39	40	42	44	45	47	49	.2
.3	24	26	27	29	31	32	34	35	37	39	40	42	43	45	47	.3
.4	23	25	26	28	29	31	32	34	35	37	39	40	42	43	45	.4
.5	22	24	25	27	28	30	31	33	34	36	37	39	40	41	43	.5
.6	21	23	24	26	27	28	30	31	33	34	36	37	38	40	41	.6
.7	21	22	23	25	26	27	29	30	32	33	34	36	37	38	40	.7
.8	20	21	22	24	25	26	28	29	30	32	33	34	36	37	38	.8
.9	19	20	22	23	24	26	27	28	29	31	32	33	34	36	37	.9
3.0	19'	20'	21'	22'	23'	25'	26'	27'	28'	30'	31'	32'	33'	35'	36'	3.0
.2	17	19	20	21	22	23	24	25	27	28	29	30	31	32	34	.2
.4	16	17	19	20	21	22	23	24	25	26	27	28	29	31	32	.4
.6	15	16	17	19	20	21	22	23	24	25	26	27	28	29	30	.6
.8	15	16	17	18	19	19	20	21	22	23	24	25	26	27	28	.8
4.0	14'	15'	16'	17'	18'	19'	19'	20'	21'	22'	23'	24'	25'	26'	27'	4.0
.2	13	14	15	16	17	18	19	19	20	21	22	23	24	25	26	.2
.4	13	13	14	15	16	17	18	19	19	20	21	22	23	24	24	.4
.6	12	13	14	14	15	16	17	18	19	19	20	21	22	23	23	.6
.8	12	12	13	14	15	15	16	17	18	19	19	20	21	22	22	.8
5.0	11'	12'	13'	13'	14'	15'	16'	16'	17'	18'	19'	19'	20'	21'	21'	5.0
.2	11	11	12	13	14	14	15	16	16	17	18	19	19	20	21	.2
.4	10	11	12	12	13	14	14	15	16	16	17	18	19	19	20	.4
.6	10	11	11	12	13	13	14	15	15	16	17	17	18	19	19	.6
.8	10	10	11	11	12	13	13	14	15	15	16	17	17	18	19	.8
6.0	09'	10'	10'	11'	12'	12'	13'	14'	14'	15'	15'	16'	17'	17'	18'	6.0
.2	09	10	10	11	11	12	13	13	14	14	15	16	16	17	17	.2
.4	09	09	10	10	11	12	12	13	13	14	14	15	16	16	17	.4
.6	08	09	10	10	11	11	12	12	13	13	14	15	15	16	16	.6
.8	08	09	09	10	10	11	11	12	13	13	14	14	15	16	16	.8
7.0	08'	08'	09'	10'	10'	11'	11'	12'	12'	13'	13'	14'	14'	15'	15'	7.0
.2	08	08	09	09	10	10	11	11	12	12	13	13	14	14	15	.2
.4	08	08	09	09	10	10	11	11	12	12	13	13	14	14	15	.4
.6	07	08	08	09	09	10	10	11	11	12	12	13	13	14	14	.6
.8	07	08	08	09	09	09	10	10	11	11	12	12	13	13	14	.8
8.0	07'	07'	08'	08'	09'	09'	10'	10'	11'	11'	12'	12'	13'	13'	13'	8.0
.2	07	07	08	08	09	09	09	10	10	11	11	12	12	13	13	.2
.4	07	07	07	08	08	09	09	10	10	11	11	11	12	12	13	.4
.6	08	07	07	08	08	09	09	09	10	10	11	11	12	12	12	.6
.8	06	07	07	08	08	08	09	09	10	10	11	11	11	12	12	.8
9.0	06'	07'	07'	07'	08'	08'	09'	09'	09'	10'	10'	11'	11'	12'	12'	9.0
.2	06	06	07	07	08	08	08	08	09	09	10	10	11	11	12	.2
.4	06	06	07	07	07	08	08	08	08	09	09	10	10	11	11	.4
.6	06	06	07	07	07	08	08	08	08	09	09	10	10	11	11	.6
.8	06	06	06	07	07	08	08	08	08	09	09	10	10	11	11	.8
10.0	06'	06'	06'	07'	07'	07'	08'	08'	09'	09'	09'	10'	10'	10'	11'	10.0

TABELA 3
DISTÂNCIA A OBJECTOS AQUÉM-HORIZONTE

D (milhas)	ALTITUDE DO OBJECTO (metros)															D (milhas)
	60	62	64	66	68	70	73	76	79	82	85	88	91	94	97	
.1	17° 55'	18° 28'	19° 02'	19° 35'	20° 07'	20° 40'	21° 28'	22° 16'	23° 03'	23° 50'	24° 36'	25° 22'	26° 07'	26° 52'	27° 36'	.1
.2	9 11	9 29	9 47	10 05	10 23	10 41	11 08	11 34	12 01	12 27	12 54	13 20	13 46	14 13	14 39	.2
.3	6 09	6 21	6 33	6 46	6 58	7 10	7 28	7 46	8 05	8 23	8 41	8 59	9 17	9 35	9 53	.3
.4	4 37	4 46	4 56	5 05	5 14	5 23	5 37	5 51	6 04	6 18	6 32	6 46	6 59	7 13	7 27	.4
.5	3 42	3 49	3 57	4 04	4 11	4 19	4 30	4 41	4 52	5 03	5 14	5 25	5 36	5 47	5 58	.5
.6	3 05	3 11	3 17	3 24	3 30	3 36	3 45	3 54	4 03	4 13	4 22	4 31	4 40	4 49	4 59	.6
.7	2 39	2 44	2 49	2 54	2 60	3 05	3 13	3 21	3 29	3 37	3 45	3 52	4 00	4 08	4 16	.7
.8	2 19	2 23	2 28	2 33	2 37	2 42	2 49	2 56	3 03	3 10	3 17	3 24	3 30	3 37	3 44	.8
.9	2 03	2 08	2 12	2 16	2 20	2 24	2 30	2 36	2 42	2 49	2 56	3 01	3 07	3 13	3 19	.9
1.0	1° 51'	1° 55'	1° 58'	2° 02'	2° 06'	2° 10'	2° 15'	2° 21'	2° 26'	2° 32'	2° 37'	2° 43'	2° 48'	2° 54'	2° 60'	1.0
.1	1 41	1 44	1 48	1 51	1 54	1 58	2 03	2 08	2 13	2 18	2 23	2 28	2 33	2 38	2 43	.1
.2	1 33	1 36	1 39	1 42	1 45	1 48	1 53	1 57	2 02	2 07	2 11	2 16	2 20	2 25	2 30	.2
.3	1 25	1 28	1 31	1 34	1 37	1 40	1 44	1 48	1 53	1 57	2 01	2 05	2 10	2 14	2 18	.3
.4	1 19	1 22	1 25	1 27	1 30	1 33	1 37	1 41	1 44	1 48	1 52	1 56	2 00	2 04	2 08	.4
.5	1 14	1 17	1 19	1 21	1 24	1 26	1 30	1 34	1 38	1 41	1 45	1 49	1 52	1 56	1 60	.5
.6	1 09	1 12	1 14	1 16	1 19	1 21	1 24	1 28	1 31	1 35	1 38	1 42	1 45	1 49	1 52	.6
.7	1 05	1 08	1 10	1 12	1 14	1 16	1 20	1 23	1 26	1 29	1 33	1 36	1 39	1 42	1 46	.7
.8	1 02	1 04	1 06	1 08	1 10	1 12	1 15	1 18	1 21	1 24	1 27	1 31	1 34	1 37	1 40	.8
.9	58	1 00	1 02	1 04	1 06	1 08	1 11	1 14	1 17	1 20	1 23	1 26	1 29	1 32	1 35	.9
2.0	56'	57'	59'	1° 01'	1° 03'	1° 05'	1° 08'	1° 10'	1° 13'	1° 16'	1° 19'	1° 21'	1° 24'	1° 27'	1° 30'	2.0
.1	53	55	56	58	60	1 02	1 04	1 07	1 10	1 12	1 15	1 18	1 20	1 23	1 26	.1
.2	51	52	54	56	57	59	1 01	1 04	1 07	1 09	1 12	1 14	1 17	1 19	1 22	.2
.3	48	50	52	53	55	56	59	1 01	1 04	1 06	1 08	1 11	1 13	1 16	1 18	.3
.4	46	48	49	51	52	54	56	59	1 01	1 03	1 06	1 08	1 10	1 13	1 15	.4
.5	44	46	47	49	50	52	54	56	59	1 01	1 03	1 05	1 07	1 10	1 12	.5
.6	43	44	46	47	48	50	52	54	56	58	1 01	1 03	1 05	1 07	1 09	.6
.7	41	43	44	45	47	48	50	52	54	56	58	1 00	1 02	1 04	1 07	.7
.8	40	41	42	44	45	46	48	50	52	54	56	58	1 00	1 02	1 04	.8
.9	38	40	41	42	43	45	47	49	50	52	54	56	58	1 00	1 02	.9
3.0	37'	38'	40'	41'	42'	43'	45'	47'	49'	51'	52'	54'	56'	58'	60'	3.0
.2	35	36	37	38	39	41	42	44	46	47	49	51	53	54	56	.2
.4	33	34	36	37	38	40	41	43	45	46	48	50	51	53	53	.4
.6	31	32	33	34	35	36	38	39	41	42	44	45	47	48	50	.6
.8	29	30	31	32	33	34	36	37	39	40	41	43	44	46	47	.8
4.0	28'	29'	30'	31'	31'	32'	34'	35'	37'	38'	39'	41'	42'	44'	45'	4.0
.2	26	27	28	29	30	31	32	34	35	36	37	39	40	41	43	.2
.4	25	26	27	28	29	29	31	32	33	35	36	37	38	40	41	.4
.6	24	25	26	27	27	28	29	31	32	33	34	35	37	38	39	.6
.8	23	24	25	25	26	27	28	29	30	32	33	34	35	36	37	.8
5.0	22'	23'	24'	24'	25'	26'	27'	28'	29'	30'	31'	33'	34'	35'	36'	5.0
.2	21	22	23	24	24	25	26	27	28	29	30	31	32	33	35	.2
.4	21	21	22	23	23	24	25	26	27	28	29	30	31	32	33	.4
.6	20	21	21	22	22	23	24	25	26	27	28	29	30	31	32	.6
.8	19	20	20	21	22	22	23	24	25	26	27	28	29	30	31	.8
6.0	19'	19'	20'	20'	21'	22'	23'	24'	25'	26'	27'	28'	29'	30'	30'	6.0
.2	18	19	19	20	20	21	22	23	24	25	26	27	28	29	29	.2
.4	17	18	19	20	20	21	22	23	24	25	26	27	28	29	28	.4
.6	17	17	18	19	19	20	20	21	22	23	24	25	26	27	27	.6
.8	16	17	17	18	19	19	20	21	22	22	23	24	25	26	26	.8
7.0	16'	16'	17'	17'	18'	19'	19'	20'	21'	22'	22'	23'	24'	25'	26'	7.0
.2	15	16	16	17	17	18	19	20	20	21	22	23	23	24	25	.2
.4	15	16	16	17	17	18	18	19	20	21	21	22	23	24	24	.4
.6	15	15	16	16	17	17	18	19	19	20	21	21	22	23	24	.6
.8	14	15	15	16	16	17	17	18	19	19	20	21	22	22	23	.8
8.0	14'	14'	15'	15'	16'	16'	17'	18'	18'	19'	20'	20'	21'	22'	22'	8.0
.2	14	14	14	15	15	16	16	17	18	19	19	20	21	21	22	.2
.4	13	14	14	15	15	16	16	17	17	18	19	19	20	21	21	.4
.6	13	13	14	14	15	15	16	16	17	18	18	19	20	20	21	.6
.8	13	13	13	14	14	15	15	16	17	17	18	19	19	20	20	.8
9.0	12'	13'	13'	14'	14'	14'	15'	16'	16'	17'	17'	18'	19'	19'	20'	9.0
.2	12	12	13	13	14	14	15	15	16	17	17	18	18	19	20	.2
.4	12	12	13	13	13	14	14	15	16	16	17	17	18	19	19	.4
.6	12	12	12	13	13	14	14	15	15	16	16	17	18	18	19	.6
.8	11	12	12	12	13	13	14	14	15	15	16	17	17	18	18	.8
10.0	11'	11'	12'	12'	13'	13'	14'	14'	15'	15'	16'	16'	17'	17'	18'	10.0

TABELA 3
DISTÂNCIA A OBJECTOS AQUÉM-HORIZONTE

D (milhas)	ALTITUDE DO OBJECTO (metros)														D (milhas)	
	100	105	110	115	120	125	130	135	140	145	150	160	170	180		190
.1	28° 19'	29° 30'	30° 39'	31° 47'	32° 53'	33° 58'	35° 01'	36° 02'	37° 02'	37° 60'	38° 57'	40° 46'	42° 29'	44° 07'	45° 40'	.1
.2	15 05	15 48	16 30	17 13	17 55	18 37	19 18	19 59	20 40	21 20	22 00	23 19	24 36	25 52	27 06	.2
.3	10 11	10 41	11 11	11 40	12 10	12 39	13 09	13 38	14 07	14 36	15 05	16 02	16 59	17 55	18 50	.3
.4	7 40	8 03	8 26	8 48	9 11	9 33	9 56	10 18	10 41	11 03	11 25	12 10	12 54	13 38	14 21	.4
.5	6 09	6 27	6 46	7 04	7 22	7 40	7 58	8 17	8 35	8 53	9 11	9 47	10 23	10 59	11 34	.5
.6	5 08	5 23	5 38	5 54	6 09	6 24	6 40	6 55	7 10	7 25	7 40	8 11	8 41	9 11	9 41	.6
.7	4 24	4 37	4 50	5 04	5 17	5 30	5 43	5 56	6 09	6 22	6 35	7 01	7 27	7 53	8 19	.7
.8	3 51	4 03	4 14	4 26	4 37	4 49	5 00	5 12	5 23	5 35	5 46	6 09	6 32	6 55	7 18	.8
.9	3 26	3 36	3 46	3 56	4 07	4 17	4 27	4 37	4 47	4 58	5 08	5 28	5 49	6 09	6 29	.9
1.0	3° 05'	3° 14'	3° 24'	3° 33'	3° 42'	3° 51'	4° 00'	4° 10'	4° 19'	4° 28'	4° 37'	4° 56'	5° 14'	5° 32'	5° 51'	1.0
.1	2 48	2 57	3 05	3 13	3 22	3 30	3 39	3 47	3 55	4 04	4 12	4 29	4 46	5 02	5 19	.1
.2	2 34	2 42	2 50	2 57	3 05	3 13	3 20	3 28	3 36	3 43	3 51	4 07	4 22	4 37	4 53	.2
.3	2 22	2 30	2 37	2 44	2 51	2 58	3 05	3 12	3 19	3 26	3 33	3 48	4 02	4 16	4 30	.3
.4	2 12	2 19	2 25	2 32	2 39	2 45	2 52	2 58	3 05	3 12	3 18	3 31	3 45	3 58	4 11	.4
.5	2 03	2 10	2 16	2 22	2 28	2 34	2 40	2 47	2 53	2 59	3 05	3 17	3 30	3 42	3 54	.5
.6	1 56	2 02	2 07	2 13	2 19	2 25	2 30	2 36	2 42	2 48	2 53	3 05	3 17	3 28	3 40	.6
.7	1 49	1 54	1 60	2 05	2 11	2 16	2 22	2 27	2 32	2 38	2 43	2 54	3 05	3 16	3 27	.7
.8	1 43	1 48	1 53	1 58	2 03	2 09	2 14	2 19	2 24	2 29	2 34	2 45	2 55	3 05	3 15	.8
.9	1 37	1 42	1 47	1 52	1 57	2 02	2 07	2 12	2 16	2 21	2 26	2 36	2 46	2 56	3 05	.9
2.0	1° 33'	1° 37'	1° 42'	1° 46'	1° 51'	1° 56'	2° 00'	2° 05'	2° 10'	2° 14'	2° 19'	2° 28'	2° 37'	2° 47'	2° 56'	2.0
.1	1 28	1 33	1 37	1 41	1 46	1 50	1 55	1 59	2 03	2 08	2 12	2 21	2 30	2 39	2 47	.1
.2	1 24	1 28	1 33	1 37	1 41	1 45	1 49	1 54	1 58	2 02	2 06	2 15	2 23	2 31	2 40	.2
.3	1 21	1 25	1 29	1 33	1 37	1 41	1 45	1 49	1 53	1 57	2 01	2 09	2 17	2 25	2 33	.3
.4	1 17	1 21	1 25	1 29	1 33	1 36	1 40	1 44	1 48	1 52	1 56	2 03	2 11	2 19	2 27	.4
.5	1 14	1 18	1 21	1 25	1 29	1 33	1 36	1 40	1 44	1 47	1 51	1 58	2 06	2 13	2 21	.5
.6	1 11	1 15	1 18	1 22	1 25	1 29	1 33	1 36	1 40	1 43	1 47	1 54	2 01	2 08	2 15	.6
.7	1 09	1 12	1 15	1 19	1 22	1 26	1 29	1 33	1 36	1 39	1 43	1 50	1 57	2 03	2 10	.7
.8	1 06	1 09	1 13	1 16	1 19	1 23	1 26	1 29	1 33	1 36	1 39	1 46	1 52	1 59	2 06	.8
.9	1 04	1 07	1 10	1 13	1 17	1 20	1 23	1 26	1 29	1 33	1 36	1 42	1 49	1 55	2 01	.9
3.0	1° 02'	1° 05'	1° 08'	1° 11'	1° 14'	1° 17'	1° 20'	1° 23'	1° 26'	1° 30'	1° 33'	1° 39'	1° 45'	1° 51'	1° 57'	3.0
.2	58	1 01	1 04	1 07	1 09	1 12	1 15	1 18	1 21	1 24	1 27	1 33	1 38	1 44	1 50	.2
.4	54	57	60	1 03	1 05	1 08	1 11	1 14	1 16	1 19	1 22	1 27	1 33	1 38	1 43	.4
.6	51	54	57	59	1 02	1 04	1 07	1 09	1 12	1 15	1 17	1 22	1 27	1 33	1 38	.6
.8	49	51	54	56	58	1 01	1 03	1 06	1 08	1 11	1 13	1 18	1 23	1 28	1 33	.8
4.0	46'	49'	51'	53'	56'	58'	1° 00'	1° 03'	1° 05'	1° 07'	1° 09'	1° 14'	1° 19'	1° 23'	1° 28'	4.0
.2	44	46	49	51	53	55	57	60	1 02	1 04	1 06	1 11	1 15	1 19	1 24	.2
.4	42	44	46	48	51	53	55	57	59	1 01	1 03	1 07	1 12	1 16	1 20	.4
.6	40	42	44	46	48	50	52	54	56	58	1 00	1 04	1 08	1 12	1 16	.6
.8	39	41	42	44	46	48	50	52	54	56	58	1 02	1 06	1 09	1 13	.8
5.0	37'	39'	41'	43'	44'	46'	48'	50'	52'	54'	56'	59'	1° 03'	1° 07'	1° 10'	5.0
.2	36	37	39	41	43	45	46	48	50	52	53	57	1 01	1 04	1 08	.2
.4	34	36	38	39	41	43	45	46	48	50	51	55	58	1 02	1 05	.4
.6	33	35	36	38	40	41	43	45	46	48	50	53	56	60	1 03	.6
.8	32	34	35	37	38	40	42	43	45	46	48	51	54	57	1 01	.8
6.0	31'	32'	34'	35'	37'	39'	40'	42'	43'	45'	46'	49'	52'	56'	59'	6.0
.2	30	31	33	34	36	37	39	40	42	43	45	48	51	54	57	.2
.4	29	30	32	33	35	36	38	39	41	42	43	46	49	52	55	.4
.6	28	29	31	32	34	35	36	38	39	41	42	45	48	51	53	.6
.8	27	29	30	31	33	34	35	37	38	39	41	44	46	49	52	.8
7.0	26'	28'	29'	30'	32'	33'	34'	36'	37'	38'	40'	42'	45'	48'	50'	7.0
.2	26	27	28	30	31	32	33	35	36	37	39	41	44	46	49	.2
.4	25	26	28	29	30	31	33	34	35	36	38	40	43	45	48	.4
.6	24	26	27	28	29	30	32	33	34	35	37	39	41	44	46	.6
.8	24	25	26	27	28	30	31	32	33	34	36	38	40	43	45	.8
8.0	23'	24'	25'	27'	28'	29'	30'	31'	32'	34'	35'	37'	39'	42'	44'	8.0
.2	23	24	25	26	27	28	29	30	32	33	34	36	38	41	43	.2
.4	22	23	24	25	26	28	29	30	31	32	33	35	37	40	42	.4
.6	22	23	24	25	26	27	28	29	30	31	32	34	37	39	41	.6
.8	21	22	23	24	25	26	27	28	29	31	32	34	36	38	40	.8
9.0	21'	22'	23'	24'	25'	26'	27'	28'	29'	30'	31'	33'	35'	37'	39'	9.0
.2	20	21	22	23	24	25	26	27	28	29	30	32	34	36	38	.2
.4	20	21	22	23	24	25	26	27	28	29	30	32	33	35	37	.4
.6	19	20	21	22	23	24	25	26	27	28	29	31	33	35	37	.6
.8	19	20	21	22	23	24	25	26	27	28	29	30	32	34	36	.8
10.0	19'	19'	20'	21'	22'	23'	24'	25'	26'	27'	28'	30'	31'	33'	35'	10.0

