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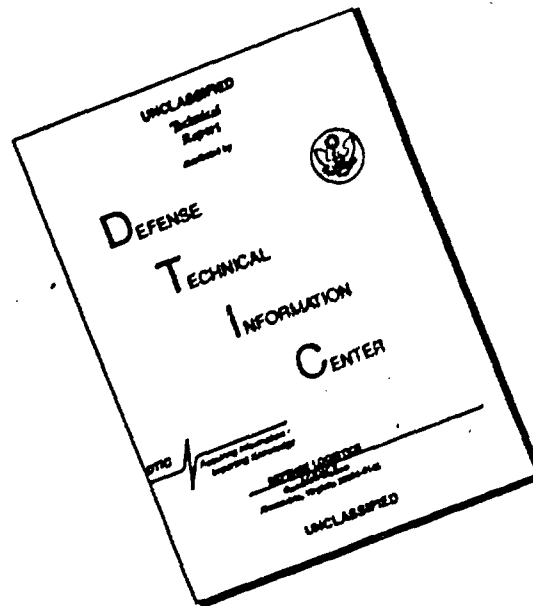
SCIENTIFIC AND TECHNICAL INFORMATION

CAMERON STATION, ALEXANDRIA, VIRGINIA



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63-4-5



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414236

GROUND EFFECT MACHINE
PRESSURE DATA
Static Tests
University of Wichita
Department of Engineering Research
WICHITA, KANSAS

414236

DDC
AUG 22 1963
JAN 1 1964

TABULATED PRESSURE DATA
FOR A SERIES OF CIRCULAR, ANNULAR JET
GROUND EFFECT MACHINE MODELS

0.05 0°
0.10 0°
0.10 30°
0.10 60°
Static Case

Engineering Report 352-8

Prepared for
Office of Naval Research
Air Branch
Washington, D.C.
under
Contract NONR 201(3)

June 1962
University of Wichita
Department of Engineering Research
Wichita, Kansas

INTRODUCTION

This volume is one of six, presenting tabulated pressure data for a series of circular, annular jet ground effect machines, which were tested at the Department of Engineering Research, University of Wichita, Wichita, Kansas. The pressures listed are the differential above and below atmospheric in pounds per sq. ft. A heading on top of each page identifies the test point presented and provides auxiliary information which may be useful in interpreting the columnar data. From left to right the heading contains:

Run No., t/D , θ , h/D , q , Seq. No., α , P_M/P_o , B.P., ρ .

where:

Run No.	the sequential number corresponding to a test point.
t/D	model slot to diameter ratio.
θ	model convergence angle, positive inboard.
h/D	model height to diameter ratio.
q	wind tunnel dynamic pressure, lb/ft ² .
Sequence No.	see: Nomenclature and Explanation of Tabulated Data
α	model angle of attack.
P_M/P_o	model pressure ratio.
B.P.	barometric pressure, lb/ft ² .
ρ	static air density, slugs/ft ³ .

The six volumes are accompanied by a special volume, Nomenclature and Explanation of Tabulated Data, which contains all the information necessary to find the pressure tab location for a data point and vice versa.

1677 .05 0° .50 0 10.0 +2.5° 1.011 2031.8 .002243

a) 1 - .1	51 + .2	b) 1 + .1	51 + .1	c) 1 + .2
2 + 0	52 + .4	2 + .1	52 + .5	2 - 3.2
3 + 0	53 + .2	3 + .1	53 + .1	3 - 5.1
4 + 0.	54 + .7	4 + .1	54 + .2	4 - 4.3
5 + 0	55 + .9	5 + .1	55 + .3	5 - 3.0
6 + 0	56 + .8	6 + .1	56 + .3	6 + .4
7 + 0	57 + .2	7 + .1	57 - 1.1	7 + .1
8 + 0	58 - .2	8 + .1	58 - .9	8 + 4.2
9 + 0	59 - .2	9 - .7	59 - .4	9 + 8.6
10 - 3.5	60 + .3	10 + .4	60 + .5	10 + 10.0
11 + 0	61 + .4	11 + .1	61 + .6	11 - .6
12 + 0	62 + .5	12 + .1	62 + .8	12 - 2.8
13 + 0	63 + .5	13 + .1	63 + 1.5	13 - 2.9
14 + 0	64 + .4	14 + 1.2	64 + 1.1	14 - 2.4
15 + 0	65 + .4	15 + 0	65 + 1.1	15 + .4
16 + 0	66 + .2	16 + 0	66 + 1.5	16 - .4
17 + 0	67 + .2	17 + 0	67 + 1.6	17 + .9
18 + 0	68 - .2	18 + 0	68 + 2.4	18 + 6.9
19 + 0	69 + .2	19 - 0	69 + 1.3	19 + 10.3
20 + 0	70 - 1.2	20 + 0	70 - .6	20 + .2
21 + 0	71 - 1.2	21 + 0	71 + .8	21 - 2.1
22 + 0	72 - 1.2	22 + 0	72 + .9	22 - 3.9
23 + 0	73 + .3	23 + 0	73 + .9	23 - 3.9
24 + 0	74 - .4	24 + 0	74 + .2	24 - 3.6
25 + 0	75 - 1.9	25 + .1	75 + .2	25 - 2.5
26 + 0	76 - 1.4	26 + .1	76 + .2	26 - 2.2
27 + 0	77 + .3	27 + .1	77 + .7	27 - 2.2
28 + 0	78 + .2	28 + .1	78 + 1.4	28 - .7
29 + 0	79 + .2	29 + .1	79 + 2.1	29 + 3.3
30 + 0	80 + .4	30 + .1	80 + 2.3	30 + .2
31 + 0	81 + .4	31 + .1	81 + 2.5	
32 + 0	82 + .9	32 + .1	82 + 2.6	Seq. 5
33 + 0	83 + .8	33 + .1	83 + 2.4	
34 + 0	84 + .7	34 + .1	84 + 1.9	
35 + 0	85 + 1.0	35 + .1	85 + 1.9	
36 + 0	86 + .9	36 + .1	86 + 1.1	
37 + 0	87 + .9	37 + .1	87 + .2	
38 + 0	88 + .2	38 + .1	88 + .8	
39 + .2	89 + .2	39 + .6	89 + .2	
40 + 0	90 + 1.2	40 + 0	90 + .6	
41 + 0	91 + 1.1	41 + 0	91 + .9	
42 + 0	92 - .8	42 + 0	92 + 1.1	
43 + 0	93 + .4	43 + 0	93 + .3	
44 + 0	94 + .5	44 + 0	94 + .2	
45 + 0	95 + .3	45 + 0	95 + .2	
46 + 0	96 + .3	46 + 0	96 + .4	
47 + 0	97 + .3	47 + 0	97 + .6	
48 + 0	98 - .4	48 + 0	98 + .5	
49 + 0	99 - .5	49 + 0	99 + .8	
50 + 0	100 + .2	50 + 0	100 + .2	

1678 .05 0° .50 0 10.0 0° 1.011 2031.8 .002243

a) 1 + 0.0	51 + .1	b) 1 - .1	51 + .1	c) 1 + .3
2 + .1	52 + .2	2 + 0	52 + .6	2 - 1.0
3 + .1	53 + .2	3 - .1	53 + .3	3 - 1.8
4 + .1	54 + .2	4 + 0	54 + .6	4 - 1.8
5 + .1	55 + .2	5 + 0	55 + .9	5 - 1.6
6 + .1	56 + .1	6 + 0	56 + .7	6 + .5
7 + .1	57 + .1	7 + 0	57 + .6	7 + .2
8 + .1	58 - 1.0	8 + 0	58 + .6	8 + 2.5
9 + .1	59 - 1.3	9 + 0	59 + .7	9 + 7.2
10 + .1	60 + .3	10 + 0	60 + 1.2	10 + 9.3
11 + .1	61 + .4	11 + 0	61 + .9	11 + .1
12 + .1	62 + .6	12 + .1	62 + 1.0	12 - .8
13 + .1	63 + .6	13 + .1	63 + 1.5	13 - 1.1
14 + .1	64 + .6	14 + .2	64 + .8	14 - 1.1
15 + .1	65 + .6	15 + .1	65 + .9	15 + .5
16 + .1	66 + .6	16 + 0	66 + 1.0	16 + .1
17 + .1	67 + .2	17 + 0	67 + 1.4	17 + .3
18 + .1	68 + .4	18 + 0	68 + 1.9	18 + 5.1
19 + .1	69 + .5	19 + 0	69 + 1.5	19 + 9.7
20 + .1	70 - .9	20 + 0	70 + 1.2	20 + .1
21 + .1	71 - .8	21 + 0	71 + 1.1	21 - 2.7
22 + .1	72 - .8	22 + 0	72 + .6	22 - 4.8
23 + .1	73 + .2	23 + 0	73 + .6	23 - 4.3
24 + .1	74 + .2	24 + .5	74 + .6	24 - 3.2
25 + .1	75 - .7	25 + 0	75 + .6	25 + .1
26 + .1	76 - .7	26 + 0	76 + .6	26 - 2.4
27 + .1	77 + .7	27 + 0	77 + .9	27 + 1.2
28 + .1	78 + .8	28 + 0	78 + 1.0	28 + 2.9
29 + .1	79 + .9	29 + 0	79 + 1.2	29 + 5.9
30 + .1	80 + .9	30 + 0	80 + 1.2	30 + .1
31 + .1	81 + 1.0	31 + 0	81 + .9	
32 + .1	82 + 1.2	32 + 0	82 + .9	Seq. 5
33 + .1	83 + 1.3	33 + 0	83 + .6	
34 + .1	84 + .3	34 + 0	84 + .6	
35 + .1	85 + .9	35 + 0	85 + .8	
36 + .1	86 + .9	36 + 0	86 + 1.0	
37 + .1	87 + .9	37 + 0	87 + 1.4	
38 + .1	88 + .9	38 + .2	88 + 1.0	
39 + .5	89 + 1.0	39 + .7	89 + 1.1	
40 + .1	90 + .4	40 + 0	90 + .3	
41 + .1	91 + .2	41 + 0	91 + .6	
42 + 0	92 - .4	42 + 0	92 + 1.1	
43 + 0	93 + .4	43 - .1	93 + 1.3	
44 + 0	94 + .2	44 - .1	94 + .2	
45 + 0	95 + .1	45 - .1	95 + .2	
46 + 0	96 + .1	46 - .1	96 + .2	
47 + 0	97 + .1	47 - .1	97 + .4	
48 + 0	98 - .7	48 - .1	98 + .6	
49 + 0	99 - .7	49 - .1	99 + .6	
50 + 0	100 + .3	50 - .1	100 + .1	

1679	.05	0°	.50	0	10.0	-2.5°	1.010	2031.8	.002243
a) 1 + 0		51 + .2		b) 1 + 0		51 + .1		c) 1 + .2	
2 + 0		52 + .7		2 + 0		52 + .5		2 + .2	
3 + 0		53 + .2		3 + 0		53 + .2		3 - 1.4	
4 + 0		54 + .2		4 + 0		54 + .2		4 - 1.3	
5 + 0		55 + .2		5 + 0		55 + .2		5 - 1.2	
6 + 0		56 + .2		6 + 0		56 + .2		6 + .3	
7 + 0		57 + .2		7 + 0		57 - 1.2		7 + .3	
8 + 0		58 - 1.2		8 + 0		58 - .8		8 + .6	
9 + 0		59 - 1.2		9 + 0		59 + .3		9 + 4.3	
10 + 0		60 + .3		10 + 0		60 + .7		10 + 6.1	
11 + 0		61 + .3		11 + 0		61 + 1.0		11 - 1.3	
12 + 0		62 + .3		12 + 0		62 + 1.5		12 - 3.3	
13 + 0		63 + .3		13 + 0		63 + 1.9		13 - 3.3	
14 + 0		64 + .4		14 + 0		64 + .5		14 - 2.6	
15 + 0		65 + .4		15 + 0		65 + .7		15 + .2	
16 + 0		66 + .4		16 + 0		66 + .8		16 - .7	
17 + 0		67 + .2		17 + 0		67 + .9		17 + .8	
18 + 0		68 + .2		18 + 0		68 + 1.4		18 + 6.4	
19 + 0		69 + .3		19 + 0		69 + 1.3		19 + 9.3	
20 + 0		70 - .4		20 + 0		70 + .4		20 + .2	
21 + 0		71 + .2		21 + 0		71 + .6		21 - 4.1	
22 + 0		72 - .7		22 + 0		72 + .5		22 - 5.2	
23 + 0		73 + .2		23 + 0		73 + .5		23 - 5.1	
24 + 0		74 + .3		24 + .5		74 - .2		24 - 3.9	
25 + 0		75 + .3		25 + 0		75 - .7		25 + .2	
26 + .1		76 + .3		26 + 0		76 - .7		26 - 1.8	
27 + .1		77 + .6		27 + 0		77 + .2		27 + 1.4	
28 + .1		78 - 1.4		28 + 0		78 + .4		28 + 3.8	
29 + .1		79 + 1.5		29 + 0		79 + .6		29 + 6.0	
30 + .1		80 + 1.6		30 + 0		80 + .7		30 + .1	
31 + .1		81 + 1.3		31 + .1		81 + .9			
32 + .1		82 + 1.3		32 + 0		82 + .9			
33 + .1		83 + 1.4		33 + 0		83 + .8		Seq. 5	
34 + .1		84 + .2		34 + 0		84 + .8			
35 + .1		85 + .5		35 + 0		85 + .9			
36 + .1		86 + .6		36 + 0		86 + .8			
37 + .1		87 + .7		37 + 0		87 + .8			
38 + .1		88 + .6		38 + 0		88 + 1.1			
39 + 1.0		89 - .4		39 + .3		89 + 1.3			
40 - .1		90 - .4		40 + 0		90 + .4			
41 + 0		91 + .2		41 + 0		91 + .4			
42 + 0		92 - .6		42 + 0		92 + .5			
43 + 0		93 + .5		43 + 0		93 + 1.2			
44 + 0		94 + .2		44 + 0		94 + .3			
45 + .1		95 + .2		45 + 0		95 + .2			
46 + .1		96 + .2		46 + 0		96 + .2			
47 + .1		97 + .3		47 + 0		97 + .2			
48 + .1		98 - 1.0		48 + 0		98 + .2			
49 + .1		99 - .7		49 + 0		99 + .3			
50 + .1		100 + .3		50 + 0		100 + .2			

1698 .05 0° .50 0 10.0 -2.5° 1.048 2031.8 .002173

a) 1 + .1	51 + .1	b) 1 + .1	51 + .1	c) 1 - .1
2 + .2	52 + .9	2 + .1	52 + .7	2 - 2.8
3 + .2	53 + .8	3 + .1	53 + .2	3 - 6.8
4 + .2	54 + .8	4 + .1	54 + .6	4 - 7.2
5 + .2	55 - 1.0	5 + .1	55 + .9	5 - 5.5
6 + .2	56 + .2	6 + .1	56 + .2	6 - .2
7 + .2	57 + 1.5	7 + .1	57 + .7	7 - 4.9
8 + .2	58 - .8	8 + .1	58 + 2.0	8 - 2.7
9 + .3	59 - 2.7	9 + .1	59 + 3.7	9 - 12.1
10 + 4.3	60 - .2	10 + .1	60 - 5.3	10 - 28.1
11 + .3	61 + 2.3	11 + .7	61 + 7.2	11 - 12.8
12 + .4	62 + 1.8	12 + 0	62 + 7.8	12 - 17.7
13 + .4	63 - 1.9	13 + .2	63 + 7.9	13 - 19.6
14 + .4	64 + .1	14 + 1.9	64 + 3.0	14 - 13.8
15 + .4	65 + 2.5	15 + 0	65 + 3.8	15 + .4
16 + .5	66 + 1.7	16 + .1	66 + 5.0	16 - 10.4
17 + .5	67 - 1.1	17 + .1	67 + 6.2	17 - 6.2
18 + .5	68 + .1	18 + .2	68 + 6.9	18 - 29.8
19 + .6	69 + 2.5	19 + .2	69 + 7.1	19 - 43.2
20 + .6	70 + 2.2	20 + .1	70 + 4.6	20 + .1
21 + .6	71 + .2	21 + 0	71 - 4.7	21 - 16.8
22 + .6	72 + .1	22 + 0	72 + 3.9	22 - 24.0
23 + .6	73 + 2.4	23 + 1.1	73 + 3.8	23 - 22.5
24 + .6	74 + 3.7	24 + 4.7	74 + .1	24 - 13.6
25 + .6	75 + 3.3	25 + 0	75 + .1	25 + 2.0
26 + .6	76 + 3.1	26 + 0	76 + .1	26 - 4.6
27 + .2	77 + 3.6	27 + .1	77 + 1.0	27 + 14.0
28 + .4	78 + 5.1	28 + .5	78 + 1.5	28 + 22.5
29 + .3	79 + 5.5	29 + 1.6	79 + 2.2	29 - 30.9
30 + .5	80 + 5.4	30 + 2.6	80 + 2.7	30 + .1
31 + 0	81 + 5.3	31 + 0	81 + 3.8	
32 + .1	82 + 5.2	32 + 0	82 + 4.1	Seq. 5
33 + .1	83 + 5.6	33 + 0	83 + 4.2	
34 + .1	84 + 1.1	34 + 0	84 + 5.5	
35 + .2	85 + 2.7	35 + 0	85 + 5.6	
36 + .2	86 + 3.1	36 + .6	86 + 5.4	
37 + .5	87 + 4.4	37 + .1	87 + 5.3	
38 + .1	88 + 1.4	38 + .7	88 + 7.1	
39 + .2	89 + .1	39 + 0	89 + 8.4	
40 + .2	90 + .1	40 + 0	90 + 4.7	
41 + .3	91 + 2.1	41 + 0	91 + 4.5	
42 + .1	92 + .1	42 + 0	92 + 5.5	
43 + .2	93 + 3.9	43 + 0	93 + 8.2	
44 + .3	94 + 3.9	44 + 0	94 + 5.7	
45 + .3	95 + 3.9	45 + 0	95 + 3.2	
46 + .3	96 + 4.2	46 + 0	96 + 3.3	
47 + .1	97 + 3.0	47 + 0	97 + 2.4	
48 + .1	98 + .1	48 + 0	98 + 2.8	
49 + .2	99 + .1	49 + 0	99 + 3.8	
50 + .2	100 + .1	50 + 0	100 + .1	

1699 .05 0° .50 0 10.0 0° 1.048 2031.8 .002173

a) 1 - .1	51 + .2	b) 1 + .1	51 + .1	c) 1 + .2
2 - .1	52 + 1.6	2 + 0	52 + .5	2 - 10.4
3 - .1	53 + .8	3 + 0	53 + .2	3 - 16.5
4 - .1	54 + 4.4	4 + 0	54 + 4.5	4 - 15.4
5 - .1	55 + 2.1	5 + 0	55 + 4.8	5 - 9.4
6 - .1	56 + 2.1	6 + .4	56 + 2.4	6 + 2.7
7 - .1	57 + 3.4	7 + .6	57 + 3.8	7 - 3.8
8 - .1	58 + 2.1	8 + .6	58 + 3.6	8 + 11.8
9 - .1	59 + .1	9 + 1.8	59 + 3.1	9 + 26.1
10 + .6	60 + 1.1	10 + 1.1	60 + 2.7	10 + 33.4
11 - .1	61 + 4.1	11 + 4.9	61 + 1.8	11 - 4.7
12 - .1	62 + 3.1	12 + 0	62 + 2.3	12 - 8.9
13 - .1	63 + 1.2	13 + .4	63 + 2.9	13 - 10.6
14 - .1	64 + 2.1	14 + 3.8	64 + 3.0	14 - 9.2
15 - .1	65 + 4.2	15 + 0	65 + 4.0	15 + .7
16 - .1	66 + 2.7	16 + .1	66 + 5.4	16 - 6.1
17 - .1	67 + .2	17 + .1	67 + 6.4	17 - 1.6
18 - .1	68 + 1.7	18 + .1	68 + 7.3	18 + 18.3
19 - .1	69 + 4.2	19 + .2	69 + 6.7	19 + 38.6
20 - .1	70 + 1.8	20 + .2	70 + 4.8	20 + .2
21 - .1	71 + .1	21 + .2	71 + 4.8	21 - 10.8
22 - .1	72 + 1.0	22 + .2	72 + 3.8	22 - 17.1
23 - .1	73 + 3.7	23 + .4	73 + 3.3	23 - 16.6
24 - .1	74 + 2.5	24 + 3.5	74 + 3.4	24 - 10.7
25 - .1	75 + .1	25 + 0	75 + 4.1	25 + 1.6
26 + 1.4	76 + 1.3	26 + 0	76 + 5.4	26 - 7.4
27 - .1	77 + 4.6	27 + 0	77 + 6.8	27 + 3.7
28 - .1	78 + 4.3	28 + .1	78 + 6.4	28 + 15.2
29 - .1	79 + 1.8	29 + .1	79 + 6.4	29 + 28.6
30 - .1	80 + 2.5	30 + .3	80 + 5.0	30 + .1
31 - .1	81 + 5.0	31 + .1	81 + 3.9	
32 - .1	82 + 6.1	32 + 0	82 + 4.0	Seq. 5
33 - .1	83 + 7.3	33 + 0	83 + 3.1	
34 - .1	84 + 3.0	34 + 0	84 + 3.1	
35 - .1	85 + 5.1	35 + 0	85 + 4.0	
36 - .1	86 + 4.8	36 + 0	86 + 4.5	
37 - .1	87 + 5.6	37 + .1	87 + 6.9	
38 - .1	88 + 4.1	38 + .8	88 + 2.8	
39 - .1	89 + 7.5	39 + 1.2	89 + 4.8	
40 - .1	90 + 6.5	40 + 0	90 + 2.7	
41 - .1	91 + 3.9	41 + 0	91 + 3.9	
42 - .1	92 + .3	42 + 0	92 + 6.9	
43 - .1	93 + 5.0	43 + 0	93 + 5.6	
44 - .1	94 + 3.5	44 + 0	94 + 2.7	
45 - .1	95 + 4.0	45 + 0	95 + 2.3	
46 - .1	96 + 4.8	46 + 0	96 + 3.3	
47 - .1	97 + 3.1	47 + 0	97 + 3.6	
48 - .1	98 + .1	48 + 0	98 + 3.8	
49 - .1	99 + .1	49 + 0	99 + 4.1	
50 - .1	100 + .1	50 + 0	100 + .1	

1700	.05	0°	.50	0	10.0	+2.5°	1.048	2031.8	.002173
a) 1 + .1		51 + .1		b) 1 + 0		51 + .2		c) 1 + .2	
2 + .1		52 + 1.2		2 + 0		52 + 1.1		2 - 14.2	
3 + .1		53 + .6		3 + 0		53 + .3		3 - 23.0	
4 - .3		54 + 6.0		4 + 0		54 + .6		4 - 20.2	
5 + .1		55 + 5.6		5 + 0		55 + 1.0		5 - 12.4	
6 + .1		56 + 5.0		6 + 0		56 + .5		6 + 2.9	
7 + .1		57 + 3.7		7 - .8		57 + .4		7 - 3.6	
8 + .1		58 + 4.0		8 - .9		58 + .6		8 + 17.7	
9 + .1		59 + 3.1		9 - 1.0		59 + 1.3		9 + 31.9	
10 + 1.3		60 + 3.5		10 + .5		60 + 1.8		10 + 36.7	
11 + 0		61 + 4.2		11 - 1.0		61 + 3.2		11 - 9.0	
12 + 0		62 + 4.0		12 + 0		62 + 4.3		12 - 14.0	
13 + 0		63 + 2.1		13 + 1.0		63 + 4.9		13 - 15.5	
14 + 0		64 + 2.0		14 + 5.0		64 + 3.4		14 - 12.2	
15 + 0		65 + 3.3		15 - .1		65 + 4.2		15 + .5	
16 + 0		66 + 2.1		16 - .1		66 + 5.4		16 - 8.3	
17 + 0		67 - .6		17 + 0		67 + 6.3		17 + 2.0	
18 + 0		68 + .2		18 + 0		68 + 7.2		18 + 22.7	
19 + 0		69 + 2.7		19 + 0		69 + 6.9		19 + 36.4	
20 + 0		70 + .1		20 + .1		70 + 5.3		20 + .2	
21 + 0		71 - 2.3		21 + .1		71 + 5.1		21 - 4.0	
22 + 0		72 - 1.7		22 + .1		72 - 4.4		22 - 6.5	
23 + 0		73 + 1.8		23 + .1		73 + 3.3		23 - 7.1	
24 + 0		74 + .1		24 + 1.2		74 + .3		24 - 6.4	
25 + 0		75 - 2.9		25 - .1		75 + .5		25 - 1.7	
26 + 0.1		76 - 1.0		26 - .1		76 + 1.3		26 - 5.4	
27 + .1		77 + 2.7		27 - .1		77 + 3.8		27 - 3.9	
28 + .1		78 + .9		28 - .1		78 + 4.8		28 + 4.8	
29 + .1		79 - 1.0		29 - .1		79 + 6.9		29 + 20.6	
30 + .1		80 + .6		30 - .1		80 + 8.3		30 + .2	
31 + .1		81 + 3.2		31 - .1		81 + 8.5			
32 + .1		82 + 4.7		32 - .1		82 + 8.6			
33 + .1		83 + 5.6		33 - .1		83 + 7.6			
34 + .1		84 + 3.2		34 - .1		84 + 4.5			
35 + .1		85 + 6.2		35 - .1		85 + 5.0			
36 + .1		86 + 4.0		36 - .1		86 + 5.2			
37 + .1		87 + 4.5		37 - .1		87 - .9			
38 + .1		88 + 1.2		38 - .1		88 + 3.6			
39 + 0		89 + 4.4		39 - .1		89 + .2			
40 + .1		90 + 9.1		40 - .1		90 + 4.2			
41 + 0		91 + 7.6		41 - .1		91 + 4.4			
42 + 0		92 + .1		42 - .1		92 + 5.5			
43 + 0		93 + 4.5		43 - .1		93 + 2.7			
44 + 0		94 + 5.4		44 - .1		94 + 1.8			
45 + 0		95 + 4.7		45 - .1		95 + 3.0			
46 + 0		96 + 4.5		46 - .1		96 + 3.7			
47 + 0		97 + 2.6		47 - .1		97 + 3.2			
48 + 0		98 + .1		48 - .1		98 + 3.4			
49 + 0		99 + .1		49 - .1		99 + 4.2			
50 + 0		100 + .1		50 - .1		100 + .2			

Seq. 5

1710	.05	0°	.40	0	10.0	+2.5°	1.010	2029.7	.002202
a) 1 -	.1	51 +	.1	b) 1 +	0	51 +	.1	c) 1 +	.1
2 -	.1	52 +	.8	2 +	0	52 +	.7	2 -	4.4
3 -	.1	53 +	.4	3 +	0	53 +	.2	3 -	6.6
4 -	.1	54 +	1.8	4 +	0	54 +	.3	4 -	5.8
5 -	.1	55 +	1.9	5 +	0	55 +	.3	5 -	4.6
6 -	.1	56 +	1.2	6 +	0	56 +	.2	6 +	.2
7 -	.1	57 +	.6	7 +	0	57 -	1.0	7 -	1.1
8 -	.1	58 +	.6	8 +	0	58 -	.2	8 +	1.5
9 -	.1	59 +	.2	9 +	0	59 +	.2	9 +	5.1
10 -	0	60 +	.6	10 +	0.4	60 -	.2	10 +	5.9
11 -	.1	61 +	1.1	11 +	0	61 +	.2	11 -	1.4
12 -	.1	62 +	1.4	12 +	.1	62 +	.7	12 -	3.4
13 -	.1	63 +	1.3	13 +	.1	63 +	1.3	13 -	3.7
14 -	.1	64 +	1.1	14 +	1.3	64 +	1.3	14 -	3.2
15 -	.1	65 +	1.1	15 +	0	65 -	1.2	15 -	.4
16 -	.1	66 +	.9	16 +	0	66 -	1.3	16 -	1.3
17 -	.1	67 +	.2	17 +	0	67 +	1.6	17 +	.7
18 -	.1	68 +	.5	18 +	0	68 +	2.0	18 +	3.2
19 -	.1	69 +	.2	19 +	0	69 +	1.6	19 +	5.7
20 -	.1	70 +	.2	20 +	0	70 +	.2	20 -	.1
21 -	.1	71 +	.9	21 +	0	71 -	.4	21 -	3.4
22 -	.1	72 +	.5	22 +	0	72 +	.2	22 -	3.6
23 -	.1	73 +	.7	23 +	0	73 +	.2	23 -	3.6
24 -	.1	74 +	.4	24 +	.1	74 +	.1	24 -	3.6
25 -	.1	75 +	.8	25 +	0	75 +	.1	25 -	3.0
26 -	.1	76 +	.2	26 +	0	76 +	.2	26 -	2.9
27 -	.1	77 +	.9	27 +	0	77 +	1.3	27 -	2.6
28 -	.1	78 +	.8	28 +	0	78 +	2.1	28 +	.1
29 -	.1	79 +	.6	29 +	0	79 +	2.5	29 +	1.8
30 -	.1	80 +	.6	30 +	0	80 +	2.5	30 +	.1
31 -	.1	81 +	1.4	31 +	0	81 +	1.8		
32 -	.1	82 +	1.7	32 +	0	82 -	1.8		
33 -	.1	83 +	1.8	33 +	0	83 -	.9		
34 -	.1	84 +	.4	34 +	0	84 +	.9		
35 -	.1	85 +	.7	35 +	0	85 +	1.1		
36 -	.1	86 +	.8	36 +	0	86 +	1.0		
37 -	.1	87 +	.9	37 +	0	87 +	.1		
38 -	.1	88 +	.6	38 +	0	88 +	.4		
39 -	.1	89 +	.9	39 +	0	89 +	.1		
40 -	.1	90 +	1.6	40 +	0	90 +	.4		
41 -	.1	91 +	.5	41 +	0	91 -	.6		
42 -	.1	92 +	.2	42 +	0	92 +	.7		
43 -	.1	93 +	.5	43 +	0	93 +	.3		
44 -	.1	94 +	.2	44 +	0	94 -	.1		
45 -	.1	95 +	.2	45 +	0	95 +	.1		
46 -	.1	96 +	.2	46 +	0	96 +	.3		
47 -	.1	97 +	.4	47 +	0	97 +	.4		
48 -	.1	98 +	1.1	48 +	0	98 +	.4		
49 -	.1	99 +	.2	49 +	0	99 +	.5		
50 -	.1	100 +	.2	50 +	0	100 +	.1		

Seq. 5

1711	.05	0°	.40	0	10.0	0°	1.010	2029.7	.002202
a) 1 -	.1	51 +	.2	b) 1 +	0	51 +	.1	c) 1 +	.2
2 -	.1	52 +	.5	2 +	0	52 +	.4	2 -	2.5
3 -	.1	53 +	.2	3 +	0	53 +	.1	3 -	4.1
4 -	.1	54 +	.8	4 +	0	54 +	.9	4 -	4.0
5 -	.1	55 +	.7	5 +	0	55 +	1.2	5 -	3.3
6 -	.1	56 +	.7	6 +	0	56 +	.9	6 +	.2
7 -	.1	57 +	.4	7 +	0	57 +	.7	7 +	.2
8 -	.1	58 +	.1	8 +	0	58 +	.7	8 +	.6
9 -	.1	59 +	.1	9 +	0	59 +	.5	9 +	5.2
10 +	.5	60 +	.4	10 +	0	60 +	.5	10 +	6.2
11 -	.1	61 +	.8	11 -	.8	61 +	.5	11 -	.8
12 -	.1	62 +	.9	12 -	0	62 +	.4	12 -	2.7
13 -	.1	63 +	1.3	13 +	0	63 +	.9	13 -	3.5
14 -	.1	64 +	1.2	14 +	.7	64 +	1.2	14 -	3.4
15 -	.1	65 +	1.2	15 +	0	65 +	1.3	15 +	.2
16 -	.1	66 +	1.1	16 +	0	66 +	1.3	16 +	.2
17 -	.1	67 +	1.0	17 +	0	67 +	1.4	17 +	.2
18 -	.1	68 +	.9	18 +	0	68 +	1.5	18 +	3.4
19 -	.1	69 +	1.0	19 +	0	69 +	1.3	19 +	7.1
20 -	.1	70 +	.2	20 +	0	70 +	.1	20 +	.1
21 -	.1	71 +	.2	21 +	0	71 +	.1	21 -	5.1
22 -	.1	72 +	.2	22 +	0	72 +	.1	22 -	5.6
23 -	.1	73 +	.3	23 +	0	73 +	.1	23 -	5.7
24 -	.1	74 +	.5	24 +	.6	74 +	.3	24 -	5.3
25 -	.1	75 +	.1	25 +	.1	75 +	.5	25 -	.8
26 -	.1	76 +	.1	26 +	0	76 +	.6	26 -	4.6
27 -	.1	77 +	.8	27 +	0	77 +	.9	27 +	.2
28 -	.1	78 +	1.0	28 +	0	78 +	.7	28 +	.8
29 -	.1	79 +	1.1	29 +	0	79 +	1.3	29 +	3.4
30 -	.1	80 +	1.2	30 +	0	80 +	.6	30 +	.2
31 -	.1	81 +	1.2	31 +	0	81 +	.5		
32 -	.1	82 +	1.6	32 +	0	82 +	.8		
33 -	.1	83 +	1.7	33 +	0	83 +	.1		
34 -	.1	84 +	.2	34 +	0	84 +	.3		
35 -	.1	85 +	.6	35 +	0	85 +	.6		
36 -	.1	86 +	.7	36 +	0	86 +	.7		
37 -	.1	87 +	.9	37 +	0	87 +	1.3		
38 -	.1	88 +	1.2	38 +	0	88 +	.6		
39 -	.1	89 +	1.4	39 +	.3	89 +	.4		
40 -	.1	90 +	.6	40 +	.1	90 +	.4		
41 -	.1	91 +	.2	41 +	.1	91 +	.4		
42 -	.1	92 +	.2	42 +	0	92 +	1.0		
43 -	.1	93 +	.4	43 +	0	93 +	.1		
44 -	.1	94 +	.1	44 +	0	94 +	.2		
45 -	.1	95 +	.1	45 +	0	95 +	.2		
46 -	.1	96 +	.2	46 +	0	96 +	.2		
47 -	.1	97 +	.2	47 +	0	97 +	.2		
48 -	.1	98 +	1.2	48 +	0	98 +	.2		
49 -	.1	99 +	.2	49 +	0	99 +	.3		
50 -	.1	100 +	.2	50 +	0	100 +	.2		

Seq. 5

1712 .05 0° .40 0 10.0 -2.5° 1.010 2029.7 .002202

a) 1 - .2	51 + .1	b) 1 + 0	51 + .1	c) 1 + .2
2 - .2	52 + .5	2 + .3	52 + .3	2 + .2
3 - .2	53 + .3	3 + .1	53 + .3	3 - .8
4 - .2	54 + .6	4 + 0	54 + .3	4 - .8
5 - .2	55 + .2	5 + 0	55 + .4	5 - .8
6 - .2	56 + .2	6 + 0	56 + .2	6 + .5
7 - .2	57 + .2	7 + 0	57 + .2	7 + .5
8 - .2	58 + .1	8 + 0	58 + .3	8 + .5
9 - .2	59 + .8	9 + 0	59 + .5	9 + 1.9
10 + .4	60 + .1	10 + 0	60 + .8	10 + 4.8
11 - .1	61 + .5	11 + .3	61 + .9	11 - 1.7
12 - .2	62 + .8	12 + .1	62 + .9	12 - 2.9
13 - .1	63 + .8	13 + 0	63 + 1.2	13 - 3.4
14 - .1	64 + .8	14 + .4	64 + 1.2	14 - 2.1
15 - .1	65 + .8	15 + .1	65 + 1.2	15 + .5
16 - .1	66 + .9	16 + 0	66 + 1.2	16 - .7
17 - .1	67 + .3	17 + 0	67 + 1.4	17 + .9
18 - .1	68 + .3	18 + 0	68 + 1.6	18 - 5.2
19 - .1	69 + .6	19 + 0	69 + 1.7	19 + 7.5
20 - .1	70 + .2	20 + 0	70 + .2	20 + .1
21 - .1	71 + .2	21 + 0	71 + .2	21 - 4.7
33 - .1	72 + .1	22 + 0	72 + .2	22 - 6.4
23 - .1	73 + .3	23 + 0	73 + .2	23 - 5.7
24 - .1	74 + .5	24 + 1.4	74 + .1	24 - 4.7
25 + 0	75 + .2	25 + .1	75 + .7	25 - 1.2
26 + 0	76 + .2	26 + 0	76 + .7	26 - 3.2
27 + 0	77 + .7	27 + 0	77 + .3	27 + .7
28 + 0	78 + 1.2	28 + 0	78 + .3	28 + 1.8
29 + 0	79 + 1.5	29 + 0	79 + .3	29 + 5.4
30 + 0	80 + 1.7	30 + .5	80 + .4	30 + .1
31 + 0	81 + 1.4	31 + .1	81 + .5	
32 + 0	82 + 1.7	32 + 0	82 + .7	Seq. 5
33 + 0	83 + 1.3	33 + 0	83 + .8	
34 + 0	84 + .2	34 + 0	84 + .8	
35 + 0	85 + .3	35 + 0	85 + .8	
36 + 0	86 + .5	36 + 0	86 + .8	
37 + 0	87 + 1.1	37 + 0	87 + 1.3	
38 + 0	88 + .9	38 + 0	88 + 1.3	
39 + 0	89 + .2	39 + 0	89 + 1.3	
40 + 0	90 + .1	40 + 0	90 + .2	
41 + 0	91 + .1	41 + 0	91 + .3	
42 + 0	92 + .2	42 + 0	92 + .9	
43 + 0	93 + .5	43 + 0	93 + 1.1	
44 + 0	94 + .4	44 + 0	94 + .1	
45 + 0	95 + .4	45 + 0	95 + .1	
46 + 0	96 + .4	46 + 0	96 + .1	
47 + 0	97 + .4	47 + 0	97 + .1	
48 + 0	98 + .1	48 + 0	98 + .1	
49 + 0	99 + .1	49 + 0	99 + .2	
50 + 0	100 + .1	50 + 0	100 + .2	

1728 .05 0° .40 0 10.0 +2.5° 1.049 2026.2 .002121

a) 1 + 0	51 + .1	b) 1 + 0	51 + .2	c) 1 + .2
2 + 0	52 + 1.0	2 + 0	52 + 1.3	2 - 11.8
3 + 0	53 + .1	3 + 0	53 + 1.0	3 - 19.2
4 - 1.6	54 + 8.1	4 + .1	54 + .3	4 - 16.8
5 + .1	55 + 6.5	5 + .2	55 + .5	5 - 8.7
6 + .1	56 + 5.7	6 + .2	56 - .6	6 + 5.4
7 + 1	57 + 5.0	7 + .2	57 - 1.7	7 - 1.6
8 + .1	58 + 5.2	8 + .2	58 - .5	8 + 18.3
9 + .1	59 + 2.9	9 + .1	59 + .5	9 + 32.7
10 + 1.8	60 + 3.9	10 + 3.9	60 + 1.3	10 + 39.7
11 + 0	61 + 5.5	11 + 1.2	61 + 2.7	11 - 0.2
12 + 0	62 + 4.3	12 + .1	62 + 4.1	12 - 10.8
13 + 0	63 + 1.3	13 + 1.7	63 + 5.1	13 - 12.6
14 + 0	64 + 2.2	14 - 8.0	64 + 4.4	14 - 9.3
15 + 0	65 + 4.9	15 + .1	65 + 5.5	15 + 4.2
16 + 0	66 + 2.0	16 + .2	66 + 7.4	16 - 5.7
17 + 0	67 - 1.1	17 + .2	67 + 8.5	17 + 5.7
18 + 0	68 + .7	18 + .2	68 + 8.9	18 + 26.1
19 + 0	69 + 4.4	19 + .2	69 + 7.3	19 + 40.2
20 + 0	70 + .8	20 + .2	70 + 4.7	20 + 1.9
21 + 0	71 - 2.1	21 + .2	71 + 4.0	21 + .1
22 + 0	72 + .2	22 + .2	72 + 2.9	22 - 3.1
23 + 0	73 + 4.3	23 + .2	73 + 2.8	23 - 3.4
24 + 0	74 + 1.2	24 + 1.8	74 + 1.0	24 - 1.9
25 + 0	75 - 2.2	25 + 0	75 + 1.6	25 + 1.2
26 + 0	76 + 1.0	26 + 0	76 + 3.7	26 - .7
27 + 0	77 + 5.5	27 + 0	77 + 7.4	27 - .6
28 + 0	78 + 1.2	28 + 0	78 + 9.3	28 + 7.1
29 + 0	79 - .8	29 + 0	79 + 10.5	29 + 23.5
30 + 0	80 + 2.3	30 + 0	80 + 10.0	30 + .2
31 + 0	81 + 6.5	31 + 0	81 + 6.3	
32 + 0	82 + 7.2	32 + 0	82 + 5.9	Seq. 5
33 + 0	83 + 8.7	33 + 0	83 + 5.0	
34 + 0	84 + 3.1	34 + 0	84 + 5.6	
35 + 0	85 + 3.7	35 + 0	85 + 6.5	
36 + 0	86 + 2.9	36 + 0	86 + 6.8	
37 + 0	87 + 5.0	37 + 0	87 - 1.5	
38 + 0	88 + 1.7	38 + 0	88 + 2.7	
39 + 0	89 + 8.9	39 + 0	89 - 1.0	
40 + 0	90 + 9.7	40 - .4	90 + 5.1	
42 + 0	91 + 4.3	41 + .2	91 + 6.3	
42 + 0	92 + .1	42 + .2	92 + 6.7	
43 + 0	93 + 5.2	43 + .2	93 + 1.6	
44 + 0	94 + 4.2	44 + .2	94 + .9	
45 + 0	95 + 4.6	45 + .2	95 + 3.1	
46 + 0	96 + 5.4	46 + .2	96 + 5.1	
47 + 0	97 + 3.8	47 + .2	97 + 3.6	
48 + 0	98 + .1	48 + .2	98 + 4.1	
49 + 0	99 + .1	49 + .2	99 + 5.8	
50 + 0	100 + .1	50 + .2	100 + .1	

1729 :05 0° .40 0 10.0 0° 1.048 2026.2 .002121

a) 1 + .1	51 + .2	b) 1 + 0	51 + .1	c) 1 + .2
2 + .1	52 + 1.0	2 + .2	52 + 1.0	2 + 8.2
3 + .1	53 + .5	3 + .3	53 + .3	3 + 13.4
4 + .1	54 + 4.3	4 + .3	54 + 5.0	4 + 12.9
5 + 0	55 + 2.9	5 + .4	55 + 7.0	5 + 7.7
6 + 0	56 + 3.4	6 + .4	56 + 3.7	6 + 4.1
7 + 0	57 + 4.1	7 + .4	57 + 4.9	7 + 5.1
8 + 0	58 + 3.2	8 + .4	58 + 5.1	8 + 8.6
9 + 0	59 + 1.4	9 + 1.4	59 + 3.4	9 + 25.0
10 + 3.8	60 + 2.6	10 + 1.5	60 + 3.1	10 + 35.0
11 + 0	61 + 4.8	11 + 5.9	61 + 2.0	11 + 5.5
12 + 0	62 + 4.4	12 + 0	62 + 2.9	12 + 10.5
13 + 0	63 + 2.9	13 + 1.0	63 + 3.0	13 + 11.7
14 + 0	64 + 3.0	14 + 7.0	64 + 5.7	14 + 9.7
15 + 0	65 + 4.9	15 + .3	65 + 6.0	15 + 3.3
16 + 0	66 + 3.9	16 + .4	66 + 6.9	16 + 6.0
17 + 0	67 + 2.1	17 + .4	67 + 6.9	17 + 3.3
18 + 0	68 + 3.8	18 + .5	68 + 5.6	18 + 24.6
19 + 0	69 + 4.9	19 + .8	69 + 3.7	19 + 40.1
20 + 0	70 + 3.1	20 + .2	70 + 1.5	20 + 1.2
21 + 0	71 + 1.0	21 + .3	71 + 1.7	21 + 8.6
22 + 0	72 + 2.8	22 + .4	72 + 1.8	22 + 14.7
23 + 0	73 + 4.3	23 + .7	73 + 2.1	23 + 14.1
24 + 0	74 + 3.9	24 + 6.5	74 + 4.0	24 + 8.6
25 + 0	75 + 1.0	25 + .2	75 + 5.9	25 + 3.4
26 + 0	76 + 2.7	26 + .3	76 + 6.1	26 + 6.0
27 + 0	77 + 4.9	27 + .3	77 + 6.3	27 + 6.2
28 + 0	78 + 5.0	28 + .4	78 + 5.1	28 + 16.5
29 + 0	79 + 3.3	29 + .4	79 + 5.1	29 + 28.8
30 + 0	80 + 4.1	30 + .9	80 + 2.8	30 + .2
31 + 0	81 + 5.3	31 + .8	81 + 2.9	
32 + 0	82 + 6.1	32 + .8	82 + 3.1	Seq. 5
33 + 0	83 + 6.6	33 + .1	83 + 3.2	
34 + 0	84 + 1.3	34 + .6	84 + 3.7	
35 + 0	85 + 2.6	35 + .6	85 + 4.5	
36 + 0	86 + 3.8	36 + .6	86 + 4.7	
37 + 0	87 + 5.0	37 + .6	87 + 6.0	
38 + 0	88 + 6.2	38 + .9	88 + 2.5	
39 + 0	89 + 6.2	39 + 1.8	89 + 2.7	
40 + 0	90 + 1.9	40 + .1	90 + 2.9	
41 + 0	91 + 1.9	41 + .1	91 + 4.1	
42 + 0	92 + .1	42 + .1	92 + 6.3	
43 + 0	93 + 4.4	43 + .1	93 + 2.6	
44 + 0	94 + 2.9	44 + .1	94 + 1.6	
45 + 0	95 + 3.2	45 + .1	95 + 2.6	
46 + 0	96 + 4.2	46 + .1	96 + 3.8	
47 + 0	97 + 2.6	47 + .1	97 + 3.9	
48 + 0	98 + .1	48 + .1	98 + 4.1	
49 + 0	99 + .1	49 + .1	99 + 4.5	
50 + 0.	100 + .1	50 + .1	100 + .1	

1730	.05	0°	.40	0	10.0	-2.5°	1.049	2026.2	.002121
a) 1 + .1	51 + .1	b) 1 + 0	51 + .1	c) 1 + .1					
2 + .1	52 + 1.0	2 + 0	52 + .8	2 + .6					
3 + .1	53 + .7	3 + 0	53 + .6	3 + 5.1					
4 + .1	54 + 2.9	4 + 0	54 + 1.1	4 + 5.0					
5 + .1	55 + .8	5 + 0	55 + 2.3	5 + 4.6					
6 + .1	56 + 1.5	6 + 0	56 + 1.5	6 + .6					
7 + .1	57 + 5.0	7 + 0	57 + 4.0	7 + 1.7					
8 + .1	58 + 1.7	8 + 0	58 + 6.9	8 + .9					
9 + .1	59 + .9	9 + 0	59 + 8.1	9 + 13.7					
10 + 3.0	60 + 1.3	10 + .1	60 + 8.4	10 + 28.8					
11 + 0	61 + 5.7	11 + 1.6	61 + 6.8	11 + 11.8					
12 + 0	62 + 3.0	12 + 0	62 + 6.2	12 + 17.8					
13 + 0	63 + .1	13 + .3	63 + 6.2	13 + 18.5					
14 + 0	64 + 1.8	14 + 2.	64 + 4.0	14 + 13.0					
15 + 0	65 + 5.9	15 + 0	65 + 5.3	15 + 1.7					
16 + 0	66 + 2.8	16 + .1	66 + 7.2	16 + 7.6					
17 + 0	67 + .6	17 + .1	67 + 8.3	17 + 9.6					
18 + 0	68 + 1.7	18 + .2	68 + 8.7	18 + 31.5					
19 + 0	69 + 5.6	19 + .3	69 + 6.9	19 + 43.1					
20 + 0	70 + 3.2	20 + .3	70 + 3.5	20 + .2					
21 + 0	71 + .4	21 + .1	71 + 2.7	21 + 15.3					
22 + 0	72 + 1.3	22 + .1	72 + 2.1	22 + 21.6					
23 + 0	73 + 5.6	23 + 1.9	73 + 2.1	23 + 20.2					
24 + 0	74 + 5.5	24 + 7.5	74 + .5	24 + 12.6					
25 + 0	75 + 3.2	25 + .1	75 + 1.4	25 + 3.6					
26 + 0	76 + 3.6	26 + .2	76 + 1.4	26 + 4.8					
27 + 0	77 + 6.1	27 + .3	77 + .2	27 + 13.2					
28 + 0	78 + 7.2	28 + .9	78 + .2	28 + 22.2					
29 + 0	79 + 7.2	29 + 2.2	79 + 1.0	29 + 32.6					
30 + 0	80 + 7.0	30 + 4.5	80 + 1.7	30 + .1					
31 + 0	81 + 7.0	31 + 0	81 + 2.9						
32 + 0	82 + 7.4	32 + .1	82 + 3.8						
33 + 0	83 + 6.7	33 + .2	83 + 4.0						
34 + 0	84 + .9	34 + .2	84 + 4.1						
35 + 0	85 + 2.0	35 + .2	85 + 5.3						
36 + 0	86 + 4.0	36 + 0	86 + 5.6						
37 + 0	87 + 6.1	37 + .1	87 + 9.0						
38 + 0	88 + 2.8	38 + .1	88 + 3.5						
39 + 0	89 + .8	39 + .1	89 + 9.0						
40 + 0	90 + .8	40 + .1	90 + 2.8						
41 + 0	91 + 2.3	41 + .1	91 + 4.8						
42 + 0	92 + .1	42 + .1	92 + 9.3						
43 + 0	93 + 6.3	43 + .1	93 + 8.4						
44 + 0	94 + 4.6	44 + .1	94 + 2.2						
45 + 0	95 + 5.1	45 + .1	95 + 2.3						
46 + 0	96 + 5.7	46 + .1	96 + 4.3						
47 + 0	97 + 3.6	47 + .1	97 + 2.2						
48 + 0	98 + .1	48 + .1	98 + 3.7						
49 + 0	99 + .1	49 + .1	99 + 5.2						
50 + 0	100 + .1	50 + .1	100 + .1						

Seq. 5

1743	.05	0°	.35	0	10.0	+2.5°	1.010	2026.9	.002259
a) 1 + .1	51 - .1	b) 1 + 0	51 + .1	c) 1 + .2					
2 - .1	52 + 1.0	2 + 0	52 - .8	2 - 3.0					
3 + .1	53 + .5	3 + 0	53 + .2	3 - 4.4					
4 + .1	54 + 2.5	4 + 0	54 - .6	4 - 3.6					
5 - .1	55 + 1.7	5 + 0	55 + .8	5 - 2.3					
6 + .1	56 + 1.3	6 + 0	56 - .1	6 + .6					
7 + .1	57 + .7	7 + 0	57 - 1.1	7 - .5					
8 + .1	58 + .8	8 + 0	58 - .7	8 + 3.6					
9 + .1	59 + .2	9 + 0	59 - .4	9 + 7.8					
10 + 3.9	60 + .5	10 + .6	60 + .2	10 + 9.1					
11 + 0	61 + 1.0	11 + .1	61 + .5	11 + .1					
12 + 0	62 + 1.4	12 + .1	62 + 1.3	12 - 1.2					
13 + 0	63 + .9	13 + .1	63 + 1.7	13 - 2.3					
14 + 0	64 + .9	14 + .3	64 + 1.3	14 - 1.3					
15 + 0	65 + 1.1	15 + 0	65 + 1.3	15 + .6					
16 + 0	66 + .6	16 + 0	66 + 1.5	16 + .3					
17 + 0	67 + .2	17 + 0	67 + 1.9	17 + 1.7					
18 + 0	68 + .9	18 + 0	68 + 2.4	18 + 6.3					
19 + 0	69 + 1.3	19 + 0	69 + 1.6	19 + 9.3					
20 + 0	70 + .1	20 + 0	70 + .1	20 + .2					
21 + 0	71 + .1	21 + 0	71 - .3	21 + .2					
22 + 0	72 + .1	22 + 0	72 - .2	22 - 1.0					
23 + 0	73 + .7	23 + 0	73 - .2	23 - 1.3					
24 + 0	74 + .2	24 + 0	74 + .2	24 - 1.1					
25 + 0	75 - 1.3	25 + 0	75 + .2	25 - .2					
26 + 0	76 + .2	26 + 0	76 - .6	26 - .6					
27 + 0	77 + 1.5	27 + 0	77 + 2.1	27 + .5					
28 + 0	78 + .8	28 + 0	78 + 2.7	28 + 1.5					
29 + 0	79 + .6	29 + 0	79 + 3.1	29 + 5.5					
30 + 0	80 + .7	30 + 0	80 + 2.1	30 + .1					
31 + 0	81 + 1.5	31 + 0	81 + 1.1						
32 + 0	82 + 2.0	32 + 0	82 + 1.3	Seq. 5					
33 + 0	83 + 2.2	33 + 0	83 + .7						
34 + 0	84 + .4	34 + 0	84 + 1.1						
35 + 0	85 + .5	35 + 0	85 + 1.7						
36 + 0	86 + .7	36 + 0	86 + 1.6						
37 + 0	87 + 1.2	37 + 0	87 - .3						
38 + 0	88 + .4	38 + 0	88 + .6						
39 + 0	89 + 1.9	39 + 0	89 + .1						
40 + 0	90 + 1.2	40 + 0	90 - .6						
41 + 0	91 + .2	41 + 0	91 + 1.1						
42 + 0	92 + .1	42 + 0	92 + 1.3						
43 + 0	93 + .9	43 + 0	93 + .2						
44 + 0	94 + .2	44 + 0	94 + .2						
45 + 0	95 + .2	45 + 0	95 + .2						
46 + 0	96 + .2	46 + 0	96 + .8						
47 + 0	97 + .4	47 + 0	97 + .6						
48 + 0	98 + .9	48 + 0	98 + .7						
49 + 0	99 + .6	49 + 0	99 + 1.2						
50 + 0	100 + .2	50 + 0	100 + .1						

1744	.05	0°	.35	0	10.0	0°	1.010	2026.9	.002259
a) 1 + .1	51 : .1	b) 1 + .1	51 : .2	c) 1 - .2					
2 + .1	52 : .8	2 + .1	52 : .8	2 - 1.9					
3 + .1	53 : .2	3 + .1	53 : .2	3 - 3.6					
4 + .1	54 : 1.2	4 + .1	54 : 1.6	4 - 3.5					
5 + .1	55 : .9	5 + 0	55 : 2.0	5 - 2.5					
6 + .1	56 : .4	6 + 0	56 : 1.0	6 + .3					
7 + .1	57 : .2	7 + 0	57 : .8	7 - 1.1					
8 + .1	58 : .2	8 + 0	58 : .9	8 + 1.0					
9 + .1	59 : .2	9 + 0	59 + .7	9 - 5.0					
10 + 1.7	60 : .2	10 + 0	60 : .8	10 - 7.5					
11 + .1	61 : .7	11 + .1	61 : .6	11 - 1.3					
12 + .1	62 : 1.0	12 + 0	62 : .9	12 - 1.8					
13 + .1	63 : 1.2	13 + 0	63 + 1.2	13 - 2.8					
14 + .1	64 : 1.2	14 + .1	64 : 1.4	14 - 2.3					
15 + .1	65 : 1.2	15 + 0	65 : 1.4	15 - .2					
16 + .1	66 : 1.2	16 + 0	66 : 1.6	16 - 1.3					
17 + .1	67 : .8	17 + 0	67 : 1.7	17 - .8					
18 + .1	68 : .9	18 + 0	68 : 1.7	18 - 4.6					
19 + .1	69 : 1.0	19 + 0	69 : .8	19 - 7.5					
20 + .1	70 : .1	20 + 0	70 : .1	20 - .2					
21 + .1	71 : .1	21 + 0	71 : .1	21 - 3.5					
22 + .1	72 : .1	22 + 0	72 : .2	22 - 4.9					
23 + .1	73 : .3	23 + 0	73 : .2	23 - 4.4					
24 + .1	74 : .4	24 + .3	74 : 1.1	24 - 3.8					
25 + .1	75 : .1	25 + .1	75 : .7	25 + .2					
26 + .1	76 : .1	26 + .1	76 : .8	26 - 3.1					
27 + .1	77 : .8	27 + .1	77 : 1.1	27 + .3					
28 + .1	78 : 1.0	28 + .1	78 : 1.2	28 - 1.8					
29 + .1	79 : 1.0	29 + .1	79 : 1.2	29 - 4.2					
30 + .1	80 : 1.1	30 + .1	80 : 1.2	30 - .1					
31 + .1	81 : 1.2	31 + .1	81 : 1.0						
32 + .1	82 : 1.5	32 + .1	82 : 1.0	Seq. 5					
33 + .1	83 : 1.5	33 + .1	83 : .9						
34 + .1	84 : .1	34 + .1	84 : .8						
35 + .1	85 : .4	35 + .1	85 : .9						
36 + .1	86 : .5	36 + .1	86 : .9						
37 + .1	87 : .9	37 + .1	87 : 1.4						
38 + .1	88 : 1.2	38 + .1	88 : .9						
39 + .1	89 : 1.0	39 + .1	89 : .4						
40 + .1	90 : .2	40 + .1	90 : .4						
41 + .1	91 : .2	41 + .1	91 : .4						
42 + .1	92 : .2	42 + 0	92 : 1.0						
43 + .1	93 : .3	43 + 0	93 : .5						
44 + .1	94 : .2	44 + 0	94 : .2						
45 + .1	95 : .1	45 + 0	95 : .2						
46 + .1	96 : .1	46 + 0	96 : .2						
47 + .1	97 : .2	47 + 0	97 : .2						
48 + .1	98 : .1	48 + 0	98 : .2						
49 + .1	99 : .1	49 + 0	99 : .4						
50 + .1	100 : .1	50 + 0	100 : .2						

1745 .05 0° .35 0 10.0 -2.5° 1.010 2026.9 .002259

a) 1 + 0	51 + .2	b) 1 + 0	51 + .2	c) 1 + .2
2 + 0	52 + .9	2 + 0	52 + .6	2 + .1
3 + 0	53 + .1	3 + 0	53 + .2	3 - 1.9
4 + 0	54 + 1.0	4 + 0	54 + .8	4 - 1.9
5 - .1	55 + .8	5 + 0	55 + 1.1	5 - 1.7
6 - .1	56 + .7	6 + 0	56 + .7	6 + .3
7 - .1	57 + .7	7 + 0	57 + .7	7 + .3
8 - .1	58 + .6	8 + 0	58 + 1.2	8 + .3
9 - .1	59 - 1.1	9 + 0	59 + 1.4	9 + 2.8
10 - .1	60 + .2	10 + 0	60 + 1.6	10 + 5.5
11 - .1	61 + 1.0	11 + 0	61 + .5	11 - 2.9
12 - .1	62 + 1.2	12 + 0	62 + 1.1	12 - 4.1
13 - .1	63 + 1.2	13 + 0	63 + 1.3	13 - 4.1
14 - .1	64 + 1.2	14 + 0	64 + 1.3	14 - 3.6
15 - .1	65 + 1.2	15 + 0	65 + 1.3	15 - .7
16 - .1	66 + 1.2	16 + 0	66 + 1.5	16 - 2.5
17 - .1	67 + .4	17 + 0	67 + 1.7	17 + .9
18 - .1	68 + .7	18 + 0	68 + 2.0	18 + 6.1
19 - .1	69 + 1.0	19 + 0	69 + 1.5	19 + 8.0
20 - .1	70 + .1	20 + 0	70 + .1	20 + .1
21 - .1	71 + .1	21 + 0	71 + .1	21 - 4.6
22 - .1	72 + .1	22 + 0	72 + .1	22 - 6.3
23 - .1	73 + .4	23 + 0	73 + .1	23 - 5.9
24 - .1	74 + .6	24 + .2	74 + .1	24 - 4.7
25 - .1	75 + .2	25 + .1	75 + .1	25 - 1.1
26 - .1	76 + .2	26 + .1	76 + .1	26 - 3.2
27 - .1	77 + 1.2	27 + .1	77 + .1	27 + .9
28 - .1	78 + 1.7	28 + .1	78 + .1	28 + 2.9
29 - .1	79 + 1.8	29 + .1	79 + .3	29 + 5.2
30 - .1	80 + 1.9	30 + .5	80 + .5	30 + .1
31 - .1	81 + 1.9	31 - .1	81 + .6	
32 - .1	82 + 1.9	32 - .1	82 + 1.0	Seq. 5
33 - .1	83 + 1.0	33 - .1	83 + .9	
34 - .1	84 + .2	34 - .1	84 + .9	
35 - .1	85 + .2	35 - .1	85 + 1.1	
36 - .1	86 + .4	36 - .1	86 + 1.2	
37 - .1	87 + 1.2	37 - .1	87 + 1.8	
38 - .1	88 + 1.3	38 - .1	88 + .4	
39 - .1	89 + .1	39 - .1	89 + 1.1	
40 - .1	90 + .2	40 - .1	90 + .2	
41 - .1	91 + .2	41 - .1	91 + .5	
42 - .1	92 + .1	42 - .1	92 + 1.5	
43 - .1	93 + .8	43 - .1	93 + .7	
44 - .1	94 + .4	44 - .1	94 + .2	
45 - .1	95 + .4	45 - .1	95 + .1	
46 - .1	96 + .4	46 - .1	96 + .1	
47 - .1	97 + .5	47 - .1	97 + .1	
48 - .1	98 + .2	48 - .1	98 + .2	
49 - .1	99 + .2	49 - .1	99 + .5	
50 - .1	100 + .1	50 - .1	100 + .1	

1764 .05 0° .35 0 10.0 -2.5° 1.048 2026.9 .002157

a) 1 + 0	51 + .1	b) 1 + .1	51 + .1	c) 1 + .1
2 + 0	52 + .6	2 + .1	52 + .6	2 - 2.0
3 + 0	53 + .5	3 + .1	53 + .1	3 - 4.9
4 + 0	54 + 2.8	4 + .1	54 + 1.7	4 - 5.3
5 + 0	55 + .1	5 + .1	55 + 3.3	5 - 4.2
6 - .1	56 + 1.8	6 + .1	56 + 2.7	6 + .6
7 - .1	57 + 5.2	7 + .1	57 + 5.7	7 - 1.7
8 - .1	58 + 1.9	8 + .1	58 + 8.9	8 + .1
9 - .1	59 - .6	9 + .1	59 + 9.3	9 + 14.0
10 + 3.0	60 + 1.7	10 + .1	60 + 8.6	10 + 29.4
11 - .1	61 + 5.7	11 + 2.7	61 + 4.5	11 - 12.9
12 - .1	62 + 2.9	12 + .1	62 + 4.5	12 - 10.7
13 - .1	63 + .2	13 + .4	63 + 4.5	13 - 18.3
14 - .1	64 + 2.3	14 + 3.0	64 + 4.3	14 - 13.7
15 - .1	65 + 5.8	15 + .1	65 + 5.6	15 + 1.7
16 - .1	66 + 3.1	16 + .1	66 + 8.3	16 - 7.0
17 - .1	67 + .1	17 + .1	67 + 9.4	17 + 11.3
18 - .1	68 + 2.3	18 + .1	68 + 9.4	18 + 31.8
19 - .1	69 + 5.8	19 + .1	69 + 6.6	19 + 43.2
20 - .1	70 + 2.7	20 + .1	70 + 2.2	20 + .1
21 - .1	71 + .1	21 + 0	71 + 2.0	21 - 14.8
22 - .1	72 + 1.5	22 + .1	72 + 1.2	22 - 21.9
23 - .1	73 + 5.1	23 + 1.0	73 + 1.8	23 - 19.5
24 - .1	74 + 5.4	24 + 7.8	74 - .2	24 - 11.6
25 - .1	75 + 2.2	25 + 0	75 - .9	25 + 4.5
26 - .1	76 + 3.3	26 + .1	76 - .9	26 - 4.9
27 - .1	77 + 5.8	27 + .1	77 + .4	27 + 12.5
28 - .1	78 + 7.2	28 + .1	78 + .4	28 + 22.5
29 - .1	79 + 6.3	29 + .7	79 + .7	29 + 32.4
30 - .1	80 + 6.3	30 + 4.0	80 + 1.3	30 + .2
31 - .1	81 + 6.6	31 + 0	81 + 2.2	
32 - .1	82 + 7.4	32 + .1	82 + 3.5	
33 - .1	83 + 6.0	33 + .2	83 + 3.7	
34 - .1	84 + .5	34 + .3	84 + 3.8	
35 - .1	85 + 1.4	35 + .4	85 + 5.1	
36 - .1	86 + 3.7	36 + .5	86 + 5.8	
37 - .1	87 + 6.3	37 + .5	87 + 10.5	
38 - .1	88 + 4.8	38 + .5	88 + 2.2	
39 - .1	89 + .1	39 + .5	89 + 7.3	
40 - .1	90 - .7	40 + 0	90 + 2.5	
41 - .1	91 + 2.0	41 + 0	91 + 5.2	
42 - .1	92 + .1	42 + 0	92 + 11.6	
43 - .1	93 + 5.8	43 + 0	93 + 5.9	
44 - .1	94 + 4.9	44 + 0	94 + 1.3	
45 - .1	95 + 4.9	45 + 0	95 + 2.2	
46 - .1	96 + 5.7	46 + 0	96 + 4.5	
47 - .1	97 + 3.8	47 + 0	97 + 3.5	
48 - .1	98 + .1	48 + 0	98 + 4.4	
49 - .1	99 + .1	49 + 0	99 + 5.7	
50 - .1	100 + .1	50 + 0	100 + .1	

Seq. 5

1765 .05 0° .35 0 10.0 0° 1.049 2026.9 .002157

a) 1 - .1	51 + .1	b) 1 - .1	51 + .1	c) 1 - .2
2 - .1	52 + .7	2 - .1	52 + .5	2 - 8.3
3 - .1	53 + .2	3 - .1	53 + .2	3 - 14.8
4 - .1	54 + 4.6	4 - .1	54 + 5.5	4 - 14.7
5 - .1	55 + 3.5	5 - .1	55 + 6.0	5 - 9.7
6 - .1	56 + 3.7	6 - .1	56 + 3.2	6 - 2.2
7 - .1	57 + 4.2	7 - .1	57 + 4.6	7 - 4.5
8 - .1	58 + 4.1	8 - .1	58 + 4.6	8 - 7.8
9 - .1	59 + 1.8	9 - .1	59 + 2.8	9 + 23.7
10 + .8	60 + 3.0	10 + 0	60 + 1.8	10 + 33.9
11 + 0	61 + 4.5	11 + 6.2	61 + 1.4	11 - 7.2
12 - .1	62 + 4.6	12 - .1	62 + 2.0	12 - 12.1
13 - .1	63 + 3.8	13 + 0	63 + 2.9	13 - 14.2
14 - .1	64 + 4.0	14 + 6.2	64 + 5.0	14 - 1.1
15 - .1	65 + 4.6	15 - .1	65 + 6.1	15 + 1.7
16 - .1	66 + 4.2	16 - .1	66 + 7.0	16 - 6.3
17 - .1	67 + 2.6	17 - .1	67 + 6.8	17 + 3.2
18 - .1	68 + 3.5	18 - .1	68 + 5.6	18 + 23.7
19 - .1	69 + 4.9	19 - .1	69 + 3.1	19 + 38.4
20 - .1	70 + 2.4	20 - .1	70 + .7	20 + .2
21 - .1	71 + 1.4	21 - .1	71 + .9	21 - 9.3
22 - .1	72 + 2.3	22 - .1	72 + 1.0	22 - 15.4
23 - .1	73 + 4.2	23 - .1	73 + 1.3	23 - 15.1
24 - .1	74 + 3.1	24 + 5.2	74 + 3.8	24 - 9.0
25 - .1	75 + 1.4	25 - .1	75 + 5.1	25 + 1.9
26 - .1	76 + 2.6	26 - .1	76 + 5.9	26 - 6.9
27 - .1	77 + 5.0	27 - .1	77 + 6.0	27 + 2.9
28 - .1	78 + 4.0	28 - .1	78 + 5.2	28 + 15.0
29 - .1	79 + 2.7	29 - .1	79 + 3.7	29 + 28.1
30 - .1	80 + 3.8	30 + .3	80 + 2.0	30 + .1
31 - .1	81 + 5.1	31 + 0	81 + 2.3	
32 - .1	82 + 5.9	32 + 0	82 + 2.1	Seq. 5
33 - .1	83 + 6.4	33 - .1	83 + 2.3	
34 - .1	84 + .9	34 - .1	84 + 2.7	
35 - .1	85 + 2.1	35 - .1	85 + 3.3	
36 - .1	86 + 3.5	36 - .1	86 + 3.7	
37 - .1	87 + 4.5	37 - .1	87 + 5.9	
38 - .1	88 + 5.0	38 + .4	88 + 1.5	
39 - .1	89 + 6.3	39 + .5	89 + 1.6	
40 - .1	90 + 1.9	40 - .1	90 + 2.2	
41 - .1	91 + 2.0	41 - .1	91 + 3.0	
42 - .1	92 + .1	42 - .1	92 + 5.5	
43 - .1	93 + 3.9	43 - .1	93 + 1.2	
44 - .1	94 + 3.0	44 - .1	94 + 1.0	
45 - .1	95 + 3.4	45 - .1	95 + 1.6	
46 - .1	96 + 3.9	46 - .1	96 + 2.9	
47 - .1	97 + 2.6	47 - .1	97 + 2.9	
48 - .1	98 + .1	48 - .1	98 + 3.2	
49 - .1	99 + .1	49 - .1	99 + 3.6	
50 - .1	100 + .1	50 - .1	100 + .1	

1766 .05 0° .35 0 10.0 +2.5° 1.048 2026.9 .002157

a) 1 - .1	51 + .2	b) 1 + .1	51 + .1	c) 1 + .2
2 - .1	52 + .6	2 + .1	52 + .2	2 -11.5
3 - .1	53 + .2	3 + 0	53 + .1	3 -20.1
4 - .1	54 + 7.8	4 + 0	54 + .1	4 -19.0
5 - .1	55 + 6.1	5 + 0	55 + .3	5 -11.7
6 - .1	56 + 5.0	6 + 0	56 + .2	6 + 3.2
7 - .1	57 + 5.3	7 + 0	57 - 2.1	7 - 3.1
8 - .1	58 + 5.5	8 + 0	58 - 1.8	8 +14.4
9 - .1	59 + 2.4	9 + 0	59 - 1.5	9 +29.8
10 + .3	60 + 3.3	10 + 3.1	60 + .2	10 +36.3
11 + 0	61 + 5.8	11 + 3.2	61 + 1.9	11 - 9.4
12 + 0	62 + 4.8	12 + .1	62 + 2.2	12 -11.9
13 + 0	63 + .9	13 + .1	63 + 2.8	13 -12.8
14 + 0	64 + 2.0	14 + 6.0	64 + 3.0	14 -11.9
15 - .1	65 + 4.9	15 + 0	65 + 3.7	15 + 2.2
16 + 0	66 + 2.5	16 + 0	66 + 5.5	16 - 7.3
17 - .1	67 - .1	17 + 0	67 + 6.8	17 + 4.0
18 - .1	68 + 1.7	18 + 0	68 + 7.1	18 +23.0
19 - .1	69 + 5.0	19 + 0	69 + 5.4	19 +35.3
20 - .1	70 + 1.3	20 + 0	70 + 2.7	20 + .2
21 - .1	71 - 1.6	21 + 0	71 + 1.6	21 - 1.3
22 - .1	72 + .8	22 + 0	72 + 1.1	22 - 3.3
23 - .1	73 + 4.3	23 + 0	73 + 1.2	23 - 4.8
24 - .1	74 + 2.8	24 + .9	74 + .1	24 - 4.8
25 - .1	75 - .6	25 + .1	75 + .7	25 + .2
26 - .1	76 + 1.5	26 + 0	76 + 2.7	26 - 2.2
27 - .1	77 + 5.4	27 + 0	77 + 6.9	27 - 2.2
28 - .1	78 + 4.0	28 + 0	78 + 8.7	28 + 4.9
29 - .1	79 - .3	29 + 0	79 + 9.3	29 +19.8
30 - .1	80 + 2.2	30 + 0	80 + 7.7	30 + .1
31 - .1	81 + 5.6	31 + 0	81 + 3.4	
32 - .1	82 + 7.1	32 + 0	82 + 3.5	Seq. 5
33 - .1	83 +10.1	33 + 0	83 + 3.0	
34 - .1	84 + 2.0	34 + 0	84 + 3.8	
35 - .1	85 + 2.2	35 + 0	85 + 4.8	
36 - .1	86 + 2.4	36 + 0	86 + 5.3	
37 - .1	87 + 4.7	37 + 0	87 + .1	
38 - .1	88 + 2.3	38 + 0	88 + .8	
39 - .1	89 + 9.7	39 + 0	89 - 1.2	
40 - .1	90 + 8.8	40 + 0	90 + 3.0	
41 - .1	91 + 2.0	41 + 0	91 + 4.5	
42 - .1	92 + .2	42 + 0	92 + 5.3	
43 - .1	93 + 4.7	43 + 0	93 + .9	
44 - .1	94 + 3.6	44 + 0	94 + .2	
45 - .1	95 + 3.9	45 + 0	95 + 1.4	
46 - .1	96 + 5.1	46 + 0	96 + 3.7	
47 - .1	97 + 4.5	47 + 0	97 + 2.8	
48 - .1	98 + .1	48 + 0	98 + 3.1	
49 - .1	99 + .1	49 + 0	99 + 4.3	
50 - .1	100 + .1	50 + 0	100 + .1	

1776 .05 0° .30 0 10.0 +2.5° 1.009 2026.2 .002203

a) 1 + .1	51 + .1	b) 1 + .1	51 + .2	c) 1 + .2
2 + .1	52 + .3	2 + .1	52 + .3	2 - 2.0
3 + .1	53 + .2	3 + .1	53 + .1	3 - 6.1
4 + .1	54 + 1.8	4 + .1	54 + .7	4 - 5.1
5 + .2	55 + 1.3	5 + .1	55 + .9	5 - 3.9
6 + .2	56 + .7	6 + .1	56 + .3	6 + .2
7 + .2	57 + .2	7 + .1	57 + .1	7 + .2
8 + .2	58 + .2	8 + .1	58 + .1	8 - 1.4
9 + .1	59 + .2	9 + .1	59 + .1	9 + 5.2
10 - 1.4	60 + .2	10 + .5	60 + .1	10 + 6.7
11 + 0	61 + .3	11 + .8	61 + .1	11 - .1
12 + 0	62 + .5	12 + .1	62 + .5	12 - 2.5
13 - .1	63 + .7	13 + 0	63 + .9	13 - 3.0
14 - .1	64 + .7	14 + 1.3	64 + 1.0	14 - 2.5
15 + 0	65 + .7	15 + .1	65 + 1.0	15 + .5
16 + 0	66 + .6	16 + .1	66 + .9	16 + .1
17 + 0	67 + .2	17 + .2	67 + 1.7	17 + .7
18 + 0	68 + .2	18 + .2	68 + 1.9	18 + 3.4
19 + 0	69 + .3	19 + .2	69 + 1.6	19 + 5.9
20 + 0	70 + .1	20 + .2	70 + .1	20 + .3
21 + 0	71 + .1	21 + .2	71 + .1	21 - 3.6
22 + 0	72 + .1	22 + .3	72 + .1	22 - 3.4
23 + 0	73 + .1	23 + .3	73 + .1	23 - 3.3
24 + 0	74 + .1	24 + .3	74 + .1	24 - 2.9
25 + 0	75 + .1	25 + .3	75 + .1	25 - 2.5
26 + 0	76 + .1	26 + .3	76 + .1	26 - 2.1
27 + 0	77 + .3	27 + .3	77 + 1.6	27 - 1.8
28 + 0	78 + .3	28 + .3	78 + 2.2	28 - 1.2
29 + 0	79 + .3	29 + .3	79 + 2.4	29 + 3.6
30 + 0	80 + .3	30 + .3	80 + 2.0	30 + .1
31 + 0	81 + .6	31 + .3	81 + .5	
32 + 0	82 + .9	32 + .3	82 + .6	Seq. 5
33 + 0	83 + 1.3	33 + .3	83 + .2	
34 + 0	84 + .1	34 + .1	84 + .5	
35 + 0	85 + .1	35 + .1	85 + .9	
36 + 0	86 + .1	36 + .1	86 + 1.0	
37 + 0	87 + .3	37 + 1	87 + .8	
38 + 0	88 + .2	38 + 0	88 + .8	
39 + 0	89 + .8	39 + 0	89 + .1	
40 + 0	90 + .4	40 + 0	90 + .2	
41 + 0	91 + .1	41 + 0	91 + .6	
42 + 0	92 + .1	42 + 0	92 + .8	
43 + 0	93 + .1	43 + 0	93 + .1	
44 + 0	94 + .1	44 + 0	94 + .1	
45 + 0	95 + .1	45 + 0	95 + .1	
46 + 0	96 + .1	46 + 0	96 + .1	
47 + 0	97 + .1	47 + 0	97 + .2	
48 + 0	98 + .1	48 + 0	98 + .2	
49 + 0	99 + .1	49 + 0	99 + .5	
50 + 0	100 + .1	50 + 0	100 + .1	

1777 .05 0° .30 0 10.0 0° 1.010 2026.2 .002203

a) 1 + 0	51 . .2	b) 1 + 0	51 + .1	c) 1 + .1
2 + 0	52 . .2	2 + 0	52 + .8	2 - 3.7
3 + 0	53 + .1	3 + 0	53 + .2	3 - 3.8
4 + 0	54 + .9	4 - .1	54 + 1.5	4 - 3.7
5 + 0	55 + 1.0	5 - .1	55 + 2.3	5 - 3.2
6 + 0	56 + 1.0	6 - .1	56 + 1.0	6 + .2
7 + 0	57 + .1	7 - .1	57 + 1.1	7 + .3
8 + 0	58 + .2	8 - .1	58 + 1.3	8 - 2.3
9 + 0	59 + .1	9 - .1	59 + 1.4	9 + 8.0
10 + 0	60 + .2	10 - .1	60 + .8	10 + 9.7
11 + 0	61 + .3	11 - .7	61 + .8	11 + .1
12 + 0	62 + .7	12 - .1	62 + 1.0	12 - 1.5
13 + 0	63 + 1.0	13 - .1	63 + 1.4	13 - 1.6
14 + 0	64 + .9	14 + 1.0	64 + 1.6	14 - 1.6
15 + 0	65 + .9	15 - .1	65 + 1.7	15 + .4
16 + 0	66 + .9	16 - .1	66 + 1.9	16 + .2
17 + 0	67 + .9	17 - .1	67 + 2.0	17 + .4
18 + 0	68 + .7	18 - .1	68 + 2.9	18 + 4.9
19 + 0	69 + .8	19 - .1	69 + 1.8	19 + 9.0
20 + 0	70 + .2	20 - .1	70 + .1	20 + .1
21 + 0	71 + .2	21 - .1	71 + .2	21 - 3.5
22 + 0	72 + .2	22 - .1	72 + .2	22 - 6.9
23 + 0	73 + .1	23 - .1	73 + .2	23 - 6.5
24 + 0	74 + .2	24 + .5	74 + .4	24 - 4.4
25 + 0	75 + .2	25 - .1	75 + .9	25 + .1
26 + 0	76 + .2	26 - .1	76 + .8	26 - 2.9
27 + 0	77 + .5	27 - .1	77 + 1.6	27 + .5
28 + 0	78 + .6	28 - .1	78 + 1.6	28 - 3.1
29 + 0	79 + .7	29 - .1	79 + 1.7	29 + 5.4
30 + 0	80 + .8	30 - .1	80 + 1.7	30 + .1
31 + 0	81 + .8	31 - .1	81 + 1.5	
32 + 0	82 + 1.1	32 - .1	82 + 1.5	Seq. 5
33 + 0	83 + 1.2	33 - .1	83 + 1.5	
34 + 0	84 + .1	34 - .1	84 + 1.5	
35 + 0	85 + .2	35 - .1	85 + 1.5	
36 + 0	86 + .3	36 - .1	86 + 1.5	
37 + 0	87 + .9	37 - .1	87 + 1.7	
38 + 0	88 + .9	38 - .1	88 + .7	
39 + 0	89 + 1.0	39 - .1	89 + .4	
40 + 0	90 + .1	40 - .1	90 + .5	
41 + 0	91 + .1	41 - .1	91 + .5	
42 + 0	92 + .1	42 - .1	92 + 1.0	
43 + 0	93 + .2	43 - .1	93 + .1	
44 + 0	94 + .1	44 - .1	94 + .2	
45 + 0	95 + .1	45 - .1	95 + .2	
46 + 0	96 + .1	46 - .1	96 + .2	
47 + 0	97 + .2	47 - .1	97 + .3	
48 + 0	98 + .1	48 - .1	98 + .5	
49 + 0	99 + .1	49 - .1	99 + .1	
50 + 0	100 + .1	50 - .1	100 + .1	

1778 .05 0° .30 0 10.0 -2.5° 1.010 2026.2 .002203

a) 1 + .1	51 + .2	b) 1 + 0	51 + .1	c) 1 + .1
2 + .1	52 + .2	2 - .1	52 + 1.9	2 + .2
3 + .1	53 + .2	3 - .1	53 + .1	3 + .1
4 + .1	54 + .4	4 - .1	54 + .0	4 + .1
5 + .1	55 + .4	5 - .1	55 + 1.1	5 + .1
6 + .1	56 + .3	6 - .1	56 + .2	6 + .1
7 + 0	57 + .3	7 - .1	57 + .4	7 + .2
8 + 0	58 + .3	8 - .1	58 + 1.3	8 + .3
9 + 0	59 + .1	9 - .1	59 + 1.5	9 + 5.0
10 + 0	60 + .1	10 - .1	60 + 1.5	10 + 7.6
11 + 0	61 + .2	11 - .1	61 + .1	11 + .1
12 + 0	62 + .2	12 - .1	62 + .5	12 - 4.1
13 + 0	63 + .3	13 - .1	63 + .0	13 - 4.1
14 + 0	64 + .3	14 - .1	64 + .9	14 - 3.3
15 + 0	65 + .3	15 - .1	65 + .9	15 + .4
16 + 0	66 + .1	16 - .1	66 + 1.3	16 + .1
17 + 0	67 + .1	17 - .1	67 + 1.7	17 + 1.8
18 + 0	68 + .1	18 - .1	68 + 1.9	18 + 0.1
19 + 0	69 + .2	19 - .1	69 + 1.4	19 + 9.5
20 + 0	70 + .1	20 - .1	70 + .2	20 + .1
21 + 0	71 + .1	21 - .1	71 + .2	21 - 4.0
22 + 0	72 + .1	22 - .1	72 + .2	22 - 7.8
23 + 0	73 + .1	23 - .1	73 + .2	23 - 0.9
24 + 0	74 + .1	24 + .4	74 + .2	24 - 4.9
25 + 0	75 + .1	25 + 0	75 + .1	25 - .5
26 + 0	76 + .1	26 - .1	76 + .2	26 - 4.1
27 + 0	77 + .2	27 - .1	77 + .1	27 + 1.0
28 + 0	78 + .4	28 - .1	78 + .1	28 - 3.1
29 + 0	79 + .0	29 - .1	79 + .3	29 + 5.9
30 + 0	80 + .7	30 + 0	80 + .5	30 + .1
31 + 0	81 + .7	31 - .1	81 + .4	
32 + 0	82 + .8	32 - .1	82 + .0	
33 + 0	83 + .9	33 - .1	83 + .0	
34 + 0	84 + .1	34 - .1	84 + .5	
35 + 0	85 + .1	35 - .1	85 + .7	
36 + 0	86 + .1	36 - .1	86 + .8	
37 + 0	87 + .2	37 - .1	87 + 1.1	
38 + 0	88 + .4	38 - .1	88 + .0	
39 + 0	89 + .1	39 - .1	89 + .8	
40 + 0	90 + .1	40 - .1	90 + .4	
41 + 0	91 + .1	41 - .1	91 + .5	
42 + 0	92 + .1	42 - .1	92 + 1.3	
43 + 0	93 + .1	43 - .1	93 + .2	
44 + 0	94 + .2	44 - .1	94 + .1	
45 + 0	95 + .2	45 - .1	95 + .1	
46 + 0	96 + .2	46 - .1	96 + .2	
47 + 0	97 + .2	47 - .1	97 + .2	
48 + 0	98 + .2	48 - .1	98 + .3	
49 + 0	99 + .2	49 - .1	99 + .5	
50 + 0	100 + .2	50 - .1	100 + .1	

Seq. 5

1788	.05	0°	.30	0	10.0	+2.5°	1.049	2024.8	.002143
a) 1 + 0		51 + .1		b) 1 - .1		51 + .2		c) 1 - .2	
2 + 0		52 + .1		2 - .1		52 + 1.2		2 - 12.9	
3 + 0		53 + .1		3 - .1		53 + .9		3 - 20.0	
4 + 0		54 + 7.6		4 - .1		54 + 1.7		4 - 18.0	
5 + 0		55 + 5.2		5 + 0		55 + 1.8		5 - 9.4	
6 + 0		56 + 5.4		6 + .1		56 + 1.0		6 + 4.1	
7 + 0		57 + 5.5		7 - .1		57 + .9		7 - 1.1	
8 + 0		58 + 5.6		8 + .3		58 + .		8 + 17.1	
9 + 0		59 + 2.0		9 + .4		59 + .9		9 + 31.1	
10 + .5		60 + 3.3		10 + 2.9		60 + .9		10 + 37.6	
11 + .1		61 + 5.5		11 + 5.2		61 + 1.4		11 - 7.4	
12 + .1		62 + 5.2		12 - .1		62 + 2.9		12 - 12.0	
13 + .1		63 + 1.3		13 + .9		63 + 4.0		13 - 12.8	
14 + .1		64 + 2.8		14 + 7.7		64 + 4.1		14 - 9.3	
15 + 0		65 + 5.4		15 + .1		65 + 5.3		15 + 3.8	
16 + 0		66 + 2.6		16 - .1		66 + 7.1		16 - 6.8	
17 + 0		67 + .1		17 - .1		67 + 8.5		17 + 4.6	
18 + 0		68 + 3.4		18 - .1		68 + 9.1		18 + 24.5	
19 + 0		69 + 5.5		19 - .1		69 + 7.1		19 + 37.6	
20 + .1		70 + 1.5		20 - .1		70 + 2.6		20 + .2	
21 + .1		71 + .1		21 + 0		71 + 2.6		21 - 1.7	
22 + .1		72 + 1.5		22 + 0		72 + 2.1		22 - 4.2	
23 + .1		73 + 4.8		23 + 0		73 + 2.1		23 - 5.0	
24 + .1		74 + 2.9		24 + 3.5		74 + 1.2		24 - 4.4	
25 + .1		75 + .8		25 - .1		75 + 1.9		25 + .8	
26 + .1		76 + 2.0		26 - .1		76 + 4.9		26 - 1.9	
27 + .1		77 + 6.4		27 - .1		77 + 10.5		27 - 1.9	
28 + .1		78 + 2.2		28 - .1		78 + 11.3		28 + 6.9	
29 + .1		79 + .1		29 - .1		79 + 11.2		29 + 23.1	
30 + .1		80 + 2.7		30 - .1		80 + 6.6		30 + .1	
31 + .1		81 + 6.2		31 - .1		81 + 3.4			
32 + .1		82 + 7.2		32 - .1		82 + 3.9		Seq. 5	
33 + .1		83 + 11.8		33 - .1		83 + 3.5			
34 + .1		84 + 1.3		34 - .1		84 + 4.9			
35 + .1		85 + 1.4		35 - .1		85 + 6.0			
36 + .1		86 + 2.5		36 - .1		86 + 6.6			
37 + .1		87 + 5.2		37 - .1		87 + 1.2			
38 + .1		88 + 2.0		38 - .1		88 + 2.2			
39 + .1		89 + 12.1		39 - .1		89 + .2			
40 + .1		90 + 5.6		40 - .1		90 + 4.3			
41 + .1		91 + 1.1		41 - .1		91 + 5.7			
42 + .1		92 + .2		42 - .1		92 + 6.9			
43 + .1		93 + 4.8		43 - .1		93 + .9			
44 + .1		94 + 2.5		44 - .1		94 + 1.0			
45 + .1		95 + 3.7		45 - .1		95 + 2.9			
46 + .1		96 + 4.8		46 - .1		96 + 5.0			
47 + .1		97 + 3.5		47 - .1		97 + 4.9			
48 + .1		98 + .1		48 - .1		98 + 4.8			
49 + .1		99 + .1		49 - .1		99 + 5.9			
50 + .1		100 + .1		50 - .1		100 + .1			

1789 .05 0° .30 0 10.0 0° 1.049 2024.8 .002143

a) 1 - .1	51 + .2	b) 1 + 0	51 + .1	c) 1 + .2
2 - .1	52 + .5	2 + 0	52 + .6	2 - 8.7
3 - .1	53 + .2	3 + .4	53 + .1	3 -15.0
4 - .1	54 + 4.3	4 + .1	54 + 6.0	4 -13.9
5 - .1	55 + 2.8	5 + .1	55 + 7.1	5 - 8.3
6 - .1	56 + 3.3	6 + .1	56 + 4.3	6 + 2.9
7 - .1	57 + 3.7	7 + 0	57 + 5.7	7 - 4.1
8 - .1	58 + 3.8	8 + 0	58 + 5.9	8 + 7.7
9 - .1	59 + 2.5	9 + .4	59 + 4.5	9 +25.5
10 + 3.2	60 + 2.9	10 + .6	60 + 3.4	10 +35.9
11 - .1	61 + 3.8	11 + 7.0	61 + 2.8	11 - 5.5
12 - .1	62 + 4.0	12 + 0	62 + 3.0	12 -11.4
13 - .1	63 + 3.4	13 + .4	63 + 3.6	13 -12.6
14 - .1	64 + 3.6	14 + 7.2	64 + 5.0	14 - 9.3
15 - .1	65 + 4.2	15 + .1	65 + 6.6	15 + 3.0
16 - .1	66 + 4.0	16 + 0	66 + 7.8	16 - 5.7
17 - .1	67 + 2.5	17 + 0	67 + 7.7	17 + 5.2
18 - .1	68 + 3.5	18 + .1	68 + 6.6	18 +25.9
19 - .1	69 + 4.4	19 + .2	69 + 4.2	19 +40.0
20 - .1	70 + 2.4	20 + 0	70 + 1.3	20 + .2
21 - .1	71 + 2.1	21 + 0	71 + 1.7	21 - 8.6
22 - .1	72 + 2.2	22 + 0	72 + 1.8	22 -14.2
23 - .1	73 + 3.6	23 + .6	73 + 2.3	23 -13.9
24 - .1	74 + 3.0	24 + 6.9	74 + 4.1	24 - 7.6
25 - .1	75 + 1.4	25 + 0	75 + 5.9	25 + 3.3
26 - .1	76 + 2.1	26 + 0	76 + 7.0	26 - 5.9
27 - .1	77 + 4.1	27 + .8	77 + 7.2	27 + 4.3
28 - .1	78 + 3.6	28 + .1	78 + 5.0	28 +15.9
29 - .1	79 + 3.1	29 + .1	79 + 4.6	29 +29.4
30 - .1	80 + 3.6	30 + 0	80 + 3.0	30 + .2
31 - .1	81 + 4.6	31 + 0	81 + 3.1	
32 - .1	82 + 5.1	32 + 0	82 + 3.0	Seq. 5
33 - .1	83 + 6.0	33 + 0	83 + 3.2	
34 - .1	84 + .3	34 + 0	84 + 3.7	
35 - .1	85 + 2.0	35 + 0	85 + 4.2	
36 - .1	86 + 2.9	36 + 0	86 + 4.4	
37 - .1	87 + 4.0	37 + .1	87 + 6.6	
38 - .1	88 + 5.6	38 + .4	88 + 2.4	
39 - .1	89 + 6.0	39 + 1.1	89 + 2.4	
40 - .1	90 + 1.4	40 + 0	90 + 3.0	
41 - .1	91 + 1.5	41 + 0	91 + 3.7	
42 - .1	92 + .1	42 + 0	92 + 6.3	
43 - .1	93 + 3.5	43 + 0	93 + 2.1	
44 - .1	94 + 2.8	44 + 0	94 + 2.0	
45 - .1	95 + 2.9	45 + 0	95 + 2.4	
46 - .1	96 + 3.2	46 + 0	96 + 3.1	
47 - .1	97 + 1.9	47 + 0	97 + 3.3	
48 - .1	98 + .1	48 + 0	98 + 3.7	
49 - .1	99 + .1	49 + 0	99 + 4.1	
50 - .1	100 + .1	50 + 0	100 + .1	

1790 .05 0° .30 0 10.0 -2.5° 1.049 2024.8 .002143

a) 1 - .1	51 + .1	b) 1 + .1	51 + .1	c) 1 + .2
2 - .1	52 + .3	2 + .1	52 + .3	2 - .7
3 - .1	53 + .2	3 + .1	53 + .1	3 - 4.5
4 - .1	54 + 2.5	4 + 0	54 + 1.8	4 - 5.0
5 - .1	55 + .2	5 + 0	55 + 3.4	5 - 3.6
6 - .1	56 + 2.4	6 + 0	56 + 2.8	6 + 1.5
7 - .1	57 + 4.8	7 + 0	57 + 6.1	7 - 2.0
8 - .1	58 + 1.8	8 + 0	58 + 10.0	8 + .5
9 - .1	59 + .1	9 + 0	59 + 10.1	9 + 15.2
10 + 1.6	60 + 1.5	10 + 0	60 + 7.5	10 + 29.0
11 - .1	61 + 5.8	11 + 2.4	61 + 2.9	11 - 10.4
12 - .1	62 + 3.6	12 + 0	62 + 3.4	12 - 16.9
13 - .1	63 + .6	13 + .2	63 + 3.5	13 - 17.5
14 - .1	64 + 2.8	14 + 3.8	64 + 3.6	14 - 11.4
15 - .1	65 + 6.0	15 + 0	65 + 6.2	15 + 2.9
16 - .1	66 + 2.8	16 + 0	66 + 8.9	16 - 4.9
17 - .1	67 + .1	17 + 0	67 + 9.8	17 + 12.0
18 - .1	68 + 3.1	18 + 0	68 + 8.9	18 + 31.4
19 - .1	69 + 5.9	19 + .1	69 + 5.7	19 + 40.9
20 - .1	70 + 2.3	20 + .1	70 + 1.1	20 + .2
21 - .1	71 + .2	21 + .1	71 + 1.3	21 - 13.5
22 - .1	72 + 1.6	22 + .1	72 + .8	22 - 20.4
23 - .1	73 + 5.0	23 + .4	73 + 1.3	23 - 19.1
24 - .1	74 + 5.2	24 + 7.2	74 + .2	24 - 11.2
25 - .1	75 + 1.6	25 + 0	75 + .2	25 + 4.2
26 - .1	76 + 2.7	26 + .1	76 + .2	26 - 3.2
27 - .1	77 + 5.9	27 + .1	77 + .2	27 + 12.5
28 - .1	78 + 6.4	28 + .2	78 + .2	28 + 1.6
29 - .1	79 + 4.8	29 + .2	79 + .5	29 + 32.4
30 - .1	80 + 5.2	30 + 2.9	80 + .8	30 + .1
31 - .1	81 + 6.5	31 + 0	81 + 1.6	
32 - .1	82 + 7.4	32 + 0	82 + 2.0	Seq. 5
33 - .1	83 + 6.4	33 + 0	83 + 3.0	
34 - .1	84 + .1	34 + .1	84 + 3.3	
35 - .1	85 + 1.2	35 + .2	85 + 4.6	
36 - .1	86 + 3.2	36 + .5	86 + 5.4	
37 - .1	87 + 5.1	37 + 1.0	87 + 12.8	
38 - .1	88 + 5.5	38 + 1.0	88 + 1.5	
39 - .1	89 + .3	39 + 1.0	89 + 5.3	
40 - .1	90 + 1.2	40 + 0	90 + 2.6	
41 - .1	91 + 1.0	41 + 0	91 + 4.5	
42 - .1	92 + .1	42 + 0	92 + 12.1	
43 - .1	93 + 5.3	43 + 0	93 + 4.0	
44 - .1	94 + 3.7	44 + 0	94 + .6	
45 - .1	95 + 4.5	45 + 0	95 + 2.0	
46 - .1	96 + 5.1	46 + 0	96 + 4.1	
47 - .1	97 + 3.7	47 + 0	97 + 3.6	
48 - .1	98 + .1	48 + 0	98 + 4.3	
49 - .1	99 + .1	49 + 0	99 + 5.4	
50 - .1	100 + .1	50 + 0	100 + .1	

1809 .05 0° .25 0 10.0 +2.5° 1.010 2019.8 .002184

a) 1 - .1	51 + .1	b) 1 + 0	51 + .3	c) 1 + .2
2 + 0	52 + .6	2 + 0	52 + .9	2 - .6
3 + 0	53 + .1	3 + 0	53 + .2	3 - 3.1
4 + 0	54 + 2.0	4 + 0	54 + 1.2	4 - 2.7
5 + 0	55 + 1.7	5 + 0	55 + 1.4	5 - 1.0
6 + 0	56 + .8	6 + 0	56 + .6	6 + 1.4
7 + 0	57 + .6	7 + .1	57 + .1	7 + .8
8 + 0	58 + .8	8 + .2	58 + .3	8 + 3.7
9 + 0	59 + .2	9 + .2	59 + .4	9 + 8.0
10 + 0	60 + .2	10 + .2	60 + .2	10 + 9.8
11 + 0	61 + .5	11 + 1.2	61 + .2	11 + .2
12 - .1	62 + 1.1	12 + .1	62 + .9	12 - .1
13 - .1	63 + 1.2	13 + 0	63 + 1.2	13 - .3
14 - .1	64 + 1.3	14 + 1.2	64 + 1.3	14 - .3
15 - .1	65 + 1.3	15 + 0	65 + 1.3	15 + 1.7
16 - .1	66 + 1.0	16 + 0	66 + 1.8	16 + .9
17 - .1	67 + .4	17 + 0	67 + 1.9	17 + 1.8
18 - .1	68 + .9	18 + 0	68 + 2.0	18 + 7.2
19 - .1	69 + 1.0	19 + 0	69 + .7	19 + 8.9
20 - .1	70 + .1	20 + 0	70 + .1	20 + .1
21 - .1	71 + .1	21 + 0	71 + .1	21 + .1
22 - .1	72 + .1	22 + 0	72 + .2	22 - .1
23 - .1	73 + .3	23 + 0	73 + .2	23 - .8
24 - .1	74 + .2	24 + .4	74 + .2	24 - .7
25 - .1	75 + .7	25 + .1	75 + .2	25 + .3
26 - .1	76 + .2	26 + 0	76 + .4	26 + .2
27 - .1	77 + 1.0	27 + .1	77 + 1.7	27 + .3
28 - .1	78 + .3	28 + 0	78 + 1.4	28 + 2.4
29 - .1	79 + .3	29 + 0	79 + 2.1	29 + 4.5
30 - .1	80 + .7	30 + 0	80 + 1.1	30 + .1
31 - .1	81 + 1.1	31 + 0	81 + .8	
32 - .1	82 + 1.4	32 + 0	82 + .9	Seq. 5
33 - .1	83 + 2.0	33 + 0	83 + .7	
34 - .1	84 + .1	34 + 0	84 + .8	
35 - .1	85 + .1	35 + 0	85 + 1.0	
36 - .1	86 + .2	36 + 0	86 + 1.1	
37 - .1	87 + .7	37 + 0	87 + .7	
38 - .1	88 + .5	38 + 0	88 + .7	
39 - .1	89 + 1.7	39 + 0	89 + .1	
40 - .1	90 + .1	40 + 0	90 + .2	
41 - .1	91 + .2	41 + 0	91 + .6	
42 - .1	92 + .2	42 + 0	92 + .9	
43 - .1	93 + .2	43 + 0	93 + .2	
44 - .1	94 + .1	44 + 0	94 + .2	
45 - .1	95 + .1	45 + 0	95 + .2	
46 - .1	96 + .1	46 + 0	96 + .2	
47 - .1	97 + .1	47 + 0	97 + .4	
48 - .1	98 + .1	48 + 0	98 + .2	
49 - .1	99 + .1	49 + 0	99 + .6	
50 - .1	100 + .1	50 + 0	100 + .1	

1810 .05 0° .25 0 10.0 0° 1.011 2019.8 .002184

a) 1 + 0	51 + .1	b) 1 + 0	51 + .2	c) 1 + .2
2 + 0	52 + .6	2 + 0	52 + .7	2 - 1.8
3 + 0	53 + .1	3 + 0	53 + .1	3 - 2.5
4 + 0	54 + 1.6	4 + 0	54 + 1.9	4 - 2.6
5 + 0	55 + 1.8	5 + 0	55 + 2.4	5 - 1.5
6 + 0	56 + 1.5	6 + 0	56 + 1.2	6 + .6
7 + 0	57 + .3	7 + 0	57 + .4	7 + .2
8 + 0	58 + .5	8 + 0	58 + 1.1	8 + 2.4
9 + 0	59 + .5	9 + 0	59 + .7	9 + 6.4
10 + .6	60 + .5	10 + 0	60 + .7	10 + 8.3
11 + 0	61 + .7	11 + 1.4	61 + .7	11 + .2
12 + 0	62 + 1.3	12 + 0	62 + 1.1	12 - 1.1
13 + 0	63 + 1.5	13 + 0	63 + 1.4	13 - 1.8
14 + 0	64 + 1.5	14 + 1.4	64 + 1.5	14 - 1.5
15 + 0	65 + 1.4	15 + 0	65 + 1.5	15 + .5
16 + 0	66 + 1.4	16 + 0	66 + 1.7	16 + .3
17 + 0	67 + 1.4	17 + 0	67 + 1.8	17 + 1.6
18 + 0	68 + 1.4	18 + 0	68 + 1.9	18 + 5.8
19 + 0	69 + 1.2	19 + 0	69 + .8	19 + 8.7
20 + 0	70 + .1	20 + 0	70 + .1	20 + .1
21 + 0	71 + .1	21 + 0	71 + .1	21 - 1.8
22 + 0	72 + .1	22 + 0	72 + .2	22 - 4.5
23 + 0	73 + .3	23 + 0	73 + .2	23 - 3.9
24 + 0	74 + .4	24 + 1.2	74 + .3	24 - 2.8
25 + 0	75 + .1	25 + 0	75 + .5	25 - .2
26 + 0	76 + .1	26 + 0	76 + .8	26 - 2.5
27 + 0	77 + .5	27 + 0	77 + 1.2	27 + .7
28 + 0	78 + .7	28 + 0	78 + .9	28 + 2.7
29 + 0	79 + .9	29 + 0	79 + 1.1	29 + 5.7
30 + 0	80 + 1.1	30 + 0	80 + 1.3	30 + .1
31 + 0	81 + 1.1	31 + 0	81 + 1.0	
32 + 0	82 + 1.2	32 + 0	82 + 1.0	Seq. 5
33 + 0	83 + 1.4	33 + 0	83 + 1.0	
34 + 0	84 + .4	34 + 0	84 + 1.0	
35 + 0	85 + .5	35 + 0	85 + .9	
36 + 0	86 + .6	36 + 0	86 + .9	
37 + 0	87 + .8	37 + 0	87 + 1.4	
38 + 0	88 + .9	38 + 0	88 + .8	
39 + 0	89 + 1.0	39 + 0	89 + .4	
40 + 0	90 + .1	40 + 0	90 + .4	
41 + 0	91 + .1	41 + 0	91 + .4	
42 + 0	92 + .1	42 + 0	92 + 1.0	
43 + 0	93 + .3	43 + 0	93 + .5	
44 + 0	94 + .4	44 + 0	94 + .2	
45 + 0	95 + .2	45 + 0	95 + .2	
46 + 0	96 + .2	46 + 0	96 + .2	
47 + 0	97 + .2	47 + 0	97 + .2	
48 + 0	98 + .2	48 + 0	98 + .3	
49 + 0	99 + .2	49 + 0	99 + .3	
50 + 0	100 + .2	50 + 0	100 + .2	

1811 .05 0° .25 0 10.0 -2.5° 1.010 2019.8 .002184

a) 1 + .1	51 + .2	b) 1 - .1	51 + .2	c) 1 + .1
2 + 0	52 + .9	2 - .1	52 + .3	2 + .1
3 + 0	53 + .2	3 - .1	53 + .1	3 + .1
4 + 0	54 + 1.7	4 - .1	54 + .9	4 + .1
5 + 0	55 + 1.5	5 - .1	55 + 1.5	5 + .1
6 + 0	56 + 1.4	6 - .1	56 + .7	6 + .1
7 + 0	57 + 1.4	7 - .1	57 + .7	7 + .1
8 + 0	58 + 1.4	8 - .1	58 + 1.8	8 + .5
9 + 0	59 + .1	9 - .1	59 + 2.0	9 + 3.4
10 + .2	60 + .6	10 - .1	60 + .8	10 + 6.8
11 + .1	61 + 1.3	11 - .1	61 + .1	11 + .6
12 + .1	62 + 1.5	12 - .1	62 + .6	12 + 2.5
13 + .1	63 + 1.6	13 - .1	63 + 1.0	13 + 2.7
14 + .1	64 + 1.6	14 + .2	64 + 1.1	14 + 2.1
15 + .1	65 + 1.7	15 - .1	65 + 1.1	15 + .8
16 + 0	66 + 1.7	16 - .1	66 + 1.6	16 + .1
17 + 0	67 + .9	17 - .1	67 + 1.8	17 + 1.3
18 + 0	68 + 1.4	18 - .1	68 + 1.9	18 + 6.5
19 + 0	69 + 1.6	19 - .1	69 + 1.0	19 + 9.0
20 + 0	70 + .1	20 - .1	70 + .6	20 + .1
21 + 0	71 + .2	21 - .1	71 + .2	21 + 4.1
22 + 0	72 + .3	22 - .1	72 + .2	22 + 5.6
23 + 0	73 + .7	23 - .1	73 + .2	23 + 5.2
24 + 0	74 + .8	24 + .8	74 + .2	24 + 3.8
25 + 0	75 + .3	25 + 0	75 + .2	25 + .2
26 + 0	76 + .3	26 - .1	76 + .2	26 + 1.8
27 + 0	77 + 1.1	27 - .1	77 + .2	27 + 1.4
28 + 0	78 + 1.4	28 - .1	78 + .4	28 + 3.8
29 + 0	79 + 1.6	29 - .1	79 + .6	29 + 6.3
30 + 0	80 + 1.7	30 - .1	80 + .6	30 + .1
31 + 0	81 + 1.8	31 + 0	81 + .6	
32 + 0	82 + 2.0	32 - .1	82 + .6	
33 + 0	83 + 2.0	33 - .1	83 + .6	
34 + 0	84 + 1	34 - .1	84 + .6	
35 + 0	85 + .5	35 + .2	85 + .6	
36 + 0	86 + .8	36 - .1	86 + .7	
37 + 0	87 + 1.3	37 - .1	87 + 2.5	
38 + 0	88 + 1.6	38 + 0	88 + .2	
39 + 0	89 + .6	39 + 0	89 + .2	
40 + 0	90 + .1	40 - .1	90 + .1	
41 + 0	91 + .2	41 - .1	91 + .2	
42 + 0	92 + .1	42 - .1	92 + 1.3	
43 + 0	93 + .7	43 - .1	93 + .1	
44 + 0	94 + .5	44 - .1	94 + .1	
45 + 0	95 + .5	45 - .1	95 + .1	
46 + 0	96 + .5	46 - .1	96 + .1	
47 + 0	97 + .6	47 - .1	97 + .1	
48 + 0	98 + .3	48 - .1	98 + .1	
49 + 0	99 + .1	49 - .1	99 + .3	
50 + 0	100 + .1	50 - .1	100 + .2	

Seq. 5

1830 .05 0° .25 0 10.0 -2.5° 1.049 2019.8 .002111

a) 1 + 0	51 + .2	b) 1 + .1	51 + .1	c) 1 - .2
2 + 0	52 + 1.1	2 + 0	52 + 1.4	2 - 1.7
3 + 0	53 + .1	3 + 0	53 + .3	3 - 5.2
4 + 0	54 + 3.2	4 + 0	54 + 2.8	4 - 5.8
5 + 0	55 + 1.0	5 + 0	55 + 4.7	5 - 3.5
6 + 0	56 + 4.2	6 + 0	56 + 3.4	6 + 1.0
7 + 0	57 + 5.9	7 + 0	57 + 8.9	7 - 2.0
8 + 0	58 + 2.5	8 + 0	58 + 13.5	8 + .2
9 + 0	59 + .1	9 + 0	59 + 11.8	9 + 15.8
10 + 5.4	60 + 3.1	10 + .2	60 + 7.9	10 + 30.7
11 + 0	61 + 6.4	11 + 2.8	61 + 3.9	11 + 10.4
12 + .1	62 + 3.0	12 + 0	62 + 4.4	12 + 15.5
13 + .1	63 + 1.4	13 + .3	63 + 4.7	13 + 17.0
14 + .2	64 + 4.1	14 + 4.6	64 + 5.1	14 + 11.2
15 + .2	65 + 6.9	15 + .1	65 + 7.8	15 + 2.7
16 + .2	66 + 3.3	16 + .2	66 + 11.9	16 + 6.2
17 + .2	67 + 1.0	17 + .2	67 + 12.1	17 + 11.0
18 + .2	68 + 4.3	18 + .3	68 + 9.1	18 + 31.3
19 + .2	69 + 6.2	19 + .2	69 + 5.3	19 + 42.3
20 + .2	70 + 2.8	20 + .2	70 + 1.4	20 + .1
21 + .2	71 + .8	21 + 0	71 + 1.6	21 + 13.1
22 + .2	72 + 3.1	22 + 0	72 + 1.6	22 + 20.5
23 + .2	73 + 5.8	23 + .4	73 + 2.6	23 + 19.3
24 + .2	74 + 5.0	24 + 6.4	74 + 1.6	24 + 11.3
25 + .2	75 + 2.1	25 + 0	75 + 1.3	25 + 3.9
26 + .2	76 + 3.8	26 + .1	76 + 1.4	26 + 4.1
27 + .2	77 + 6.3	27 + .1	77 + 1.8	27 + 13.2
28 + .2	78 + 7.3	28 + .2	78 + 1.9	28 + 21.7
29 + .2	79 + 4.9	29 + .6	79 + 2.5	29 + 32.7
30 + .2	80 + 5.4	30 + 1.7	80 + 2.5	30 + .1
31 + .2	81 + 6.7	31 + 0	81 + 2.9	
32 + .2	82 + 7.7	32 + .2	82 + 3.7	Seq. 5
33 + .2	83 + 7.3	33 + .3	83 + 3.9	
34 + .2	84 + .5	34 + .3	84 + 4.5	
35 + .2	85 + 2.7	35 + 1.3	85 + 5.8	
36 + .2	86 + 4.8	36 + .4	86 + 6.0	
37 + .2	87 + 6.5	37 + 1.3	87 + 16.2	
38 + .2	88 + 7.1	38 + 1.9	88 + 2.7	
39 + .2	89 + 2.6	39 + 2.0	89 + 5.1	
40 + .2	90 + .2	40 + 0	90 + 3.7	
41 + .2	91 + 2.4	41 + 0	91 + 5.9	
42 + .2	92 + .1	42 + 0	92 + 14.1	
43 + .2	93 + 6.0	43 + 0	93 + 6.1	
44 + .2	94 + 4.2	44 + 0	94 + 1.0	
45 + .2	95 + 4.9	45 + 0	95 + 3.4	
46 + .2	96 + 5.8	46 + 0	96 + 5.4	
47 + .2	97 + 3.6	47 + 0	97 + 4.4	
48 + .2	98 + .1	48 + 0	98 + 5.5	
49 + .2	99 + .1	49 + 0	99 + 6.2	
50 + .2	100 + .1	50 + 0	100 + .1	

1831 .05 0° .25 0 10.0 0° 1.049 2019.8 .002111

a) 1 - .1	51 + .2	b) 1 + 0	51 + .1	c) 1 + .1
2 - .1	52 + 1.5	2 + 0	52 + 1.2	2 - 8.7
3 - .1	53 + .7	3 + 0	53 + .4	3 - 15.3
4 - .1	54 + 5.9	4 + 0	54 + 6.8	4 - 14.8
5 - .1	55 + 5.1	5 + 0	55 + 8.6	5 - 8.5
6 - .1	56 + 5.1	6 + 0	56 + 5.0	6 + 4.1
7 - .1	57 + 5.0	7 + 0	57 + 7.2	7 - 5.0
8 - .1	58 + 5.1	8 + 0	58 + 7.2	8 + 9.1
9 - .1	59 + 3.3	9 + .3	59 + 5.3	9 + 30.5
10 + 1.8	60 + 4.3	10 + .5	60 + 3.5	10 + 42.0
11 - .1	61 + 5.9	11 + 7.3	61 + 3.7	11 - 7.2
12 - .1	62 + 5.5	12 + 0	62 + 4.5	12 - 13.0
13 - .1	63 + 4.8	13 + .5	63 + 5.2	13 - 15.3
14 - .1	64 + 5.0	14 + 7.5	64 + 5.8	14 - 10.3
15 - .1	65 + 5.7	15 + .1	65 + 7.7	15 + 3.5
16 - .1	66 + 4.5	16 + 0	66 + 9.2	16 - 8.6
17 - .1	67 + 3.3	17 + .1	67 + 8.8	17 + 5.8
18 - .1	68 + 4.8	18 + .2	68 + 6.5	18 + 30.9
19 - .1	69 + 5.6	19 + .2	69 + 4.4	19 + 46.9
20 - .1	70 + 2.9	20 + .1	70 + 2.3	20 + .2
21 - .1	71 + 3.0	21 + .1	71 + 2.6	21 - 9.6
22 - .1	72 + 3.9	22 + 0	72 + 2.8	22 - 16.4
23 - .1	73 + 4.7	23 + .5	73 + 3.3	23 - 15.5
24 - .1	74 + 4.0	24 + 7.1	74 + 4.4	24 - 9.8
25 - .1	75 + 2.5	25 + .2	75 + 7.1	25 + 3.6
26 - .1	76 + 3.8	26 + .3	76 + 8.3	26 - 7.8
27 - .1	77 + 5.6	27 + .3	77 + 8.5	27 + 5.2
28 - .1	78 + 5.3	28 + .1	78 + 5.7	28 + 18.5
29 - .1	79 + 4.1	29 + .1	79 + 5.4	29 + 35.0
30 - .1	80 + 5.0	30 + .3	80 + 3.6	30 + .1
31 - .1	81 + 5.8	31 + 0	81 + 3.9	
32 - .1	82 + 6.2	32 + .1	82 + 4.2	Seq. 5
33 - .1	83 + 8.2	33 + .1	83 + 4.4	
34 - .1	84 + 1.2	34 + .1	84 + 4.7	
35 - .2	85 + 3.6	35 + 1.1	85 + 5.1	
36 - .1	86 + 4.6	36 + 0	86 + 5.3	
37 - .1	87 + 5.5	37 + .1	87 + 8.7	
38 - .1	88 + 6.9	38 + .5	88 + 4.0	
39 - .1	89 + 7.9	39 + .7	89 + 2.9	
40 - .1	90 + 2.8	40 + 0	90 + 4.1	
41 - .1	91 + 3.0	41 + 0	91 + 4.6	
42 - .1	92 + .1	42 + 0	92 + 8.2	
43 - .1	93 + 6.1	43 + 0	93 + 5.7	
44 - .1	94 + 4.0	44 + 0	94 + 2.6	
45 - .1	95 + 4.0	45 + 0	95 + 3.6	
46 - .1	96 + 4.6	46 + 0	96 + 4.3	
47 - .1	97 + 2.8	47 + 0	97 + 4.5	
48 - .1	98 + .1	48 + 0	98 + 4.6	
49 - .1	99 + .1	49 + 0	99 + 4.9	
50 - .1	100 + .1	50 + 0	100 + .1	

1832 .05 0° .25 0 10.0 +2.5° 1.049 2019.8 .002111

a) 1 + 0	51 + .1	b) 1 + 0	51 + .1	c) 1 + .2
2 + 0	52 + 1.0	2 + 0	52 + 1.0	2 -14.6
3 + 0	53 + .1	3 + 0	53 + .1	3 -24.3
4 + 0	54 + 9.0	4 + 0	54 + 4.2	4 -21.4
5 + 0	55 + 5.7	5 + .1	55 + 3.4	5 -12.3
6 + 0	56 + 5.7	6 + .3	56 + 1.0	6 + 4.2
7 + 0	57 + 5.8	7 + .5	57 + .2	7 - 2.8
8 + 0	58 + 6.0	8 + .8	58 + 1.2	8 +19.1
9 + 0	59 + 2.4	9 + 1.1	59 + 1.3	9 +36.0
10 + 1.3	60 + 3.8	10 + 2.3	60 + .3	10 +43.7
11 + 0	61 + 5.9	11 + 7.0	61 + 1.6	11 - 9.6
12 + 0	62 + 4.9	12 + 0	62 + 3.0	12 -14.5
13 + 0	63 + 2.2	13 + .6	63 + 3.9	13 -16.7
14 + 0	64 + 4.3	14 + 8.1	64 + 4.0	14 -11.9
15 + 0	65 + 6.5	15 + .1	65 + 5.8	15 + 2.4
16 + .1	66 + 3.1	16 + .2	66 + 9.0	16 - 8.1
17 + .1	67 + 1.1	17 + .2	67 + 9.6	17 + 3.6
18 + .1	68 + 4.6	18 + .2	68 + 9.1	18 +27.8
19 + .1	69 + 6.0	19 + .2	69 + 5.7	19 +43.2
20 + .1	70 + 1.8	20 + .2	70 + 1.8	20 + .1
21 + .1	71 + .3	21 + 0	71 + 1.4	21 - 3.6
22 + 0	72 + 2.7	22 + .1	72 + 1.0	22 - 7.0
23 + 0	73 + 5.9	23 + .1	73 + 2.5	23 - 8.1
24 + 0	74 + 1.9	24 + 4.2	74 + .3	24 - 6.5
25 + 0	75 + .1	25 + 0	75 + 1.3	25 + .2
26 + 0	76 + 2.9	26 + 0	76 + 5.5	26 - 5.4
27 + 0	77 + 5.5	27 + 0	77 +12.1	27 - 2.2
28 + 0	78 + 2.0	28 + 0	78 +13.3	28 + 7.4
29 + 0	79 + .3	29 + 0	79 +11.4	29 +25.8
30 + .1	80 + 4.3	30 + 0	80 + 6.5	30 + .1
31 + .1	81 + 6.6	31 + 0	81 + 3.2	
32 + .1	82 + 7.7	32 + 0	82 + 3.4	
33 + .1	83 +13.8	33 + 0	83 + 3.5	
34 + .1	84 + 1.0	34 + 0	84 + 4.8	
35 + 0	85 + 1.5	35 + 2.0	85 + 6.1	
36 + 0	86 + 3.5	36 + 0	86 + 6.7	
37 + 0	87 + 5.9	37 + 0	87 + 2.5	
38 + .1	88 + 2.4	38 + 0	88 + 2.7	
39 + .1	89 +14.3	39 + 0	89 + .2	
40 + .1	90 + 4.8	40 + 0	90 + 4.1	
41 + .1	91 + 1.4	41 + 0	91 + 5.8	
42 + .1	92 + .2	42 + 0	92 + 7.4	
43 + .1	93 + 5.5	43 + 0	93 + .9	
44 + .1	94 + 3.2	44 + 0	94 + 1.3	
45 + 0	95 + 4.0	45 + 0	95 + 3.7	
46 + 0	96 + 5.3	46 + 0	96 + 5.2	
47 + 0	97 + 3.6	47 + 0	97 + 4.4	
48 + 0	98 + .1	48 + 0	98 + 4.8	
49 + 0	99 + .1	49 + 0	99 + 5.9	
50 + 0	100 + .1	50 + 0	100 + .1	

Seq. 5

1848 .05 0° .15 0 10.0 +5.0° 1.010 2027.6 .002260

a) 1 - .1	51 + .1	b) 1 + 0	51 + .1	c) 1 + .1
2 - .1	52 + .1	2 - .1	52 + .7	2 - 2.9
3 - .1	53 + .1	3 + 0	53 + .1	3 - 4.8
4 - .1	54 + 2.5	4 + 0	54 + 1.5	4 - 4.2
5 - .1	55 + 2.2	5 + 0	55 + 1.8	5 - 2.3
6 - .1	56 + 1.0	6 + 0	56 + 1.2	6 + .6
7 - .1	57 + .5	7 + 0	57 + .2	7 + .2
8 - .1	58 + 1.0	8 + 0	58 + .7	8 + 4.2
9 - .1	59 + .2	9 + 0	59 + .8	9 + 7.7
10 + 2.5	60 + .4	10 + 0	60 + .8	10 + 9.4
11 - .1	61 + .8	11 + .9	61 + .8	11 + .1
12 - .1	62 + 1.0	12 + 0	62 + 1.2	12 + .1
13 - .1	63 + 1.1	13 + .1	63 + 1.8	13 + .1
14 - .1	64 + 1.2	14 + 1.5	64 + .4	14 + .1
15 - .1	65 + 1.2	15 + 0	65 + .7	15 + 1.1
16 - .1	66 + 1.0	16 + 0	66 + 2.0	16 + .6
17 - .1	67 + 1.0	17 + .1	67 + 3.3	17 + 2.8
18 - .1	68 + 1.1	18 + 1	68 + 3.1	18 + 7.6
19 - .1	69 + 1.2	19 + 1	69 + .7	19 + 9.1
20 - .1	70 + .1	20 + .1	70 + .1	20 + .2
21 - .1	71 + .1	21 + .1	71 + .1	21 - .5
22 - .1	72 + .1	22 + .1	72 + .1	22 - 1.1
23 - .1	73 + .5	23 + .2	73 + .3	23 - 1.1
24 - .1	74 + 1	24 + .5	74 + .1	24 - .9
25 - .1	75 + .1	25 + .2	75 + .1	25 - .8
26 - .1	76 + .1	26 + 0	76 + .1	26 - .5
27 - .1	77 + .9	27 + 0	77 + .7	27 - .4
28 - .1	78 + .1	28 + 0	78 + 3.2	28 - .1
29 - .1	79 + .4	29 + 0	79 + 4.3	29 + 3.5
30 - .1	80 + 1.1	30 + 0	80 + 1.2	30 + .1
31 - .1	81 + 1.4	31 + 0	81 + .6	
32 - .1	82 + 1.5	32 + 0	82 + .7	Seq. 5
33 - .1	83 + 2.7	33 + 0	83 + .8	
34 - .1	84 + .2	34 + 0	84 + .9	
35 - .1	85 + .2	35 + 0	85 + 1.0	
36 - .1	86 + .3	36 + 0	86 + 1.1	
37 - .1	87 + .8	37 + 0	87 + .3	
38 - .1	88 + .1	38 + 0	88 + .7	
39 - .1	89 + 1.9	39 + 0	89 + .3	
40 - .1	90 + 1.1	40 + 0	90 + .5	
41 - .1	91 + .1	41 + 0	91 + .7	
42 - .1	92 + .1	42 + 0	92 + .8	
43 - .1	93 + .5	43 + 0	93 + .1	
44 - .1	94 + .1	44 + 0	94 + .2	
45 - .1	95 + .1	45 + 0	95 + .2	
46 - .1	96 + .3	46 + 0	96 + .2	
47 - .1	97 + .1	47 + 0	97 + .4	
48 - .1	98 + .2	48 + 0	98 + .2	
49 - .1	99 + .1	49 + 0	99 + .6	
50 - .1	100 + .1	50 + 0	100 + .1	

1849 .05 0° .15 0 10.0 +2.5° 1.010 2027.6 .002251

a) 1 + 0	51 + .1	b) 1 - .1	51 + .1	c) 1 + .1
2 + 0	52 + .7	2 - .1	52 + .5	2 - 1.5
3 + 0	53 + .1	3 - .1	53 + .1	3 - 4.1
4 + 0	54 + 2.8	4 - .1	54 + 1.4	4 - 3.2
5 + 0	55 + 2.8	5 - .1	55 + 1.7	5 - 2.0
6 + 0	56 + 1.7	6 - .1	56 + 1.0	6 + .7
7 + 0	57 + 1.2	7 - .1	57 + .1	7 + .2
8 + 0	58 + 1.5	8 - .1	58 + .6	8 + 4.1
9 + 0	59 + 1.5	9 - .1	59 + .8	9 + 8.1
10 + .9	60 + 1.5	10 - .1	60 + .8	10 + 9.5
11 + 0	61 + 1.5	11 + 1.4	61 + .4	11 + .1
12 + 0	62 + 1.8	12 - .1	62 + 1.1	12 - 1.5
13 + 0	63 + 2.0	13 - .1	63 + 1.5	13 - 1.6
14 + 0	64 + 2.0	14 + 1.2	64 + .2	14 - 1.3
15 + 0	65 + 1.7	15 - .1	65 + .6	15 + 1.2
16 + 0	66 + 1.6	16 - .1	66 + 1.4	16 + .6
17 + 0	67 + 1.6	17 - .1	67 + 1.7	17 + 2.3
18 + 0	68 + 1.6	18 - .1	68 + 1.9	18 + 6.9
19 + 0	69 + 1.6	19 - .1	69 + 1.1	19 + 9.5
20 + 0	70 + .1	20 - .1	70 + .1	20 + .2
21 + 0	71 + .3	21 - .1	71 + .1	21 - 1.5
22 + 0	72 + .4	22 - .1	72 + .2	22 - 1.6
23 + 0	73 + .7	23 - .1	73 + .2	23 - 1.5
24 + 0	74 + .6	24 + .2	74 + .1	24 - 1.4
25 + 0	75 + .4	25 - .1	75 + .1	25 - .7
26 + 0	76 + .5	26 + 0	76 + .2	26 - .8
27 + 0	77 + .9	27 - .1	77 + 2.0	27 - .7
28 + 0	78 + 1.2	28 - 1	78 + 2.7	28 - 1.7
29 + 0	79 + 1.3	29 - .1	79 + 2.9	29 + 5.3
30 + 0	80 + 1.5	30 - .1	80 + 1.7	30 + .1
31 + 0	81 + 1.0	31 - .1	81 + 1.2	
32 + 0	82 + 1.8	32 - .1	82 + 1.2	
33 + 0	83 + 2.7	33 + 0	83 + 1.2	
34 + 0	84 + .1	34 + 0	84 + 1.2	
35 + 0	85 + .4	35 + 0	85 + 1.2	
36 + 0	86 + .6	36 + 0	86 + 1.2	
37 + 0	87 + 1.0	37 + 0	87 + 1.2	
38 + 0	88 + .1	38 + 0	88 + 1.2	
39 + 0	89 + 2.8	39 + 0	89 + .8	
40 + 0	90 + .3	40 + 0	90 + .8	
41 + 0	91 + .5	41 - .1	91 + .8	
42 + 0	92 + .1	42 - .1	92 + .8	
43 + 0	93 + .8	43 - .1	93 + .4	
44 + 0	94 + .3	44 - .1	94 + .4	
45 + 0	95 + .4	45 - .1	95 + .1	
46 + 0	96 + .4	46 - .1	96 + .1	
47 + 0	97 + .4	47 - .1	97 + .1	
48 + 0	98 + .1	48 - .1	98 + .1	
49 + 0	99 + .1	49 - .1	99 + .3	
50 + 0	100 + .1	50 - .1	100 + .1	

Seq. 5

1850 .05 0° .15 0 10.0 0° 1.010 2027.6 .002251

a) 1 + 0	51 + .1	b) 1 + 0	51 + .1	c) 1 + .1
2 + 0	52 + .7	2 + .1	52 + .9	2 - .6
3 + 0	53 + .1	3 + .1	53 + .3	3 - 2.3
4 + 0	54 + 2.5	4 + .1	54 + 2.3	4 - 2.1
5 + 0	55 + 2.8	5 + .1	55 + 3.2	5 - 1.0
6 + 0	56 + 1.0	6 + .1	56 + 1.3	6 + 1.3
7 + 0	57 + .9	7 + .1	57 + 1.6	7 + .3
8 + 0	58 + 1.1	8 + .1	58 + 2.0	8 + 2.3
9 + 0	59 + 1.3	9 + .1	59 + 1.8	9 + 7.8
10 + 0	60 + 1.3	10 + .1	60 + 1.8	10 + 9.1
11 + 0	61 + 1.3	11 + 1.5	61 + 1.8	11 + .2
12 + 0	62 + 1.7	12 + 0	62 + 2.3	12 - 1.2
13 + 0	63 + 3.1	13 + 0	63 + 2.5	13 - 1.5
14 + 0	64 + 2.0	14 + 1.5	64 + 1.3	14 - 1.1
15 + 0	65 + 1.9	15 + .1	65 + 1.7	15 + 1.4
16 + 0	66 + 1.9	16 + 0	66 + 2.8	16 + .6
17 + 0	67 + 1.9	17 + .1	67 + 2.9	17 + 1.9
18 + 0	68 + 1.9	18 + .1	68 + 2.9	18 + 7.6
19 + 0	69 + 2.0	19 + .1	69 + 2.1	19 + 9.8
20 + 0	70 + .1	20 + .2	70 + .5	20 + .1
21 + 0	71 + .7	21 + .2	71 + .9	21 - 1.8
22 + 0	72 + .9	22 + .2	72 + 1.0	22 - 3.6
23 + 0	73 + 1.0	23 + .2	73 + 1.1	23 - 3.1
24 + 0	74 + 1.0	24 + 1.4	74 + .5	24 - 1.8
25 + 0	75 + .9	25 + .1	75 + .8	25 + .6
26 + 0	76 + .9	26 + .1	76 + 1.1	26 - 1.2
27 + 0	77 + 1.0	27 + .1	77 + 2.0	27 + 1.2
28 + 0	78 + 1.2	28 + .1	78 + 2.1	28 + 3.9
29 + 0	79 + 1.5	29 + 0	79 + 2.0	29 + 6.4
30 + 0	80 + 1.7	30 + .1	80 + 2.0	30 + .2
31 + 0	81 + 1.7	31 + 0	81 + 2.1	
32 + 0	82 + 1.7	32 + 0	82 + 2.1	Seq. 5
33 + 0	83 + 1.9	33 + .1	83 + 2.1	
34 + 0	84 + .1	34 + .1	84 + 2.1	
35 + 0	85 + .7	35 + 0	85 + 2.1	
36 + 0	86 + 1.0	36 + 0	86 + 1.4	
37 + 0	87 + 1.3	37 + 0	87 + 2.1	
38 + 0	88 + 1.4	38 + .1	88 + 2.0	
39 + 0	89 + 1.5	39 + 0	89 + 1.9	
40 + 0	90 + .5	40 + 0	90 + 1.8	
41 + 0	91 + .6	41 + 0	91 + 1.8	
42 + 0	92 + .1	42 + 0	92 + 2.1	
43 + 0	93 + .7	43 + 0	93 + 1.4	
44 + 0	94 + .7	44 + 0	94 + 1.2	
45 + 0	95 + .7	45 + 0	95 + 1.2	
46 + 0	96 + .7	46 + 0	96 + .4	
47 + 0	97 + .7	47 + 0	97 + .8	
48 + 0	98 + .1	48 + 0	98 + 1.0	
49 + 0	99 + .1	49 + 0	99 + 1.2	
50 + 0	100 + .1	50 + 0	100 + .1	

1830	.05	0°	.25	0	10.0	-2.5°	1.049	2019.8	.002111
a) 1 + 0		51 + .2		b) 1 + .1		51 + .1		c) 1 + .2	
2 + 0		52 + 1.1		2 + 0		52 + 1.4		2 + 1.7	
3 + 0		53 + .1		3 + 0		53 + .3		3 + 5.2	
4 + 0		54 + 3.2		4 + 0		54 + 2.8		4 + 5.8	
5 + 0		55 + 1.0		5 + 0		55 + 4.7		5 + 3.5	
6 + 0		56 + 4.2		6 + 0		56 + 3.4		6 + 1.0	
7 + 0		57 + 5.9		7 + 0		57 + 8.9		7 + 2.9	
8 + 0		58 + 2.5		8 + 0		58 + 13.5		8 + .2	
9 + 0		59 + .1		9 + 0		59 + 11.8		9 + 15.3	
10 + 5.4		60 + 3.1		10 + .2		60 + 7.9		10 + 30.7	
11 + 0		61 + 6.4		11 + 2.8		61 + 3.9		11 + 10.4	
12 + .1		62 + 3.0		12 + 0		62 + 4.4		12 + 15.5	
13 + .1		63 + 1.4		13 + .3		63 + 4.7		13 + 17.0	
14 + .2		64 + 4.1		14 + 4.6		64 + 5.1		14 + 11.2	
15 + .2		65 + 6.9		15 + .1		65 + 7.8		15 + 2.7	
16 + .2		66 + 3.3		16 + .2		66 + 11.9		16 + 6.2	
17 + .2		67 + 1.0		17 + .2		67 + 12.1		17 + 11.0	
18 + .2		68 + 4.3		18 + .3		68 + 9.1		18 + 31.3	
19 + .2		69 + 6.2		19 + .2		69 + 5.3		19 + 42.5	
20 + .2		70 + 2.8		20 + .2		70 + 1.4		20 + .1	
21 + .2		71 + .8		21 + 0		71 + 1.6		21 + 13.1	
22 + .2		72 + 3.1		22 + 0		72 + 1.6		22 + 20.5	
23 + .2		73 + 5.8		23 + .4		73 + 2.6		23 + 19.3	
24 + .2		74 + 5.0		24 + 6.4		74 + 1.6		24 + 11.3	
25 + .2		75 + 2.1		25 + 0		75 + 1.3		25 + 3.9	
26 + .2		76 + 3.8		26 + .1		76 + 1.4		26 + 4.1	
27 + .2		77 + 6.3		27 + .1		77 + 1.8		27 + 13.2	
28 + .2		78 + 7.3		28 + .2		78 + 1.9		28 + 21.7	
29 + .2		79 + 4.9		29 + .6		79 + 2.5		29 + 32.7	
30 + .2		80 + 5.4		30 + 1.7		80 + 2.5		30 + .1	
31 + .2		81 + 6.7		31 + 0		81 + 2.9			
32 + .2		82 + 7.7		32 + .2		82 + 3.7		Seq. 5	
33 + .2		83 + 7.3		33 + .3		83 + 3.9			
34 + .2		84 + .5		34 + .3		84 + 4.5			
35 + .2		85 + 2.7		35 + 1.3		85 + 5.8			
36 + .2		86 + 4.8		36 + .4		86 + 6.0			
37 + .2		87 + 6.5		37 + 1.3		87 + 16.2			
38 + .2		88 + 7.1		38 + 1.9		88 + 2.7			
39 + .2		89 + 2.6		39 + 2.0		89 + 5.1			
40 + .2		90 + .2		40 + 0		90 + 3.7			
41 + .2		91 + 2.4		41 + 0		91 + 5.9			
42 + .2		92 + .1		42 + 0		92 + 14.1			
43 + .2		93 + 6.0		43 + 0		93 + 6.1			
44 + .2		94 + 4.2		44 + 0		94 + 1.0			
45 + .2		95 + 4.9		45 + 0		95 + 3.4			
46 + .2		96 + 5.8		46 + 0		96 + 5.4			
47 + .2		97 + 3.6		47 + 0		97 + 4.4			
48 + .2		98 + .1		48 + 0		98 + 5.5			
49 + .2		99 + .1		49 + 0		99 + 6.2			
50 + .2		100 + .1		50 + 0		100 + .1			

1831 .05 0° .25 0 10.0 0° 1.049 2019.8 .002111

a) 1 - .1	51 + .2	b) 1 + 0	51 + .1	c) 1 + .1
2 - .1	52 + 1.5	2 + 0	52 + 1.2	2 - 8.7
3 - .1	53 + .7	3 + 0	53 + .4	3 - 15.3
4 - .1	54 + 5.9	4 + 0	54 + 6.8	4 - 14.8
5 - .1	55 + 5.1	5 + 0	55 + 8.6	5 - 8.5
6 - .1	56 + 5.1	6 + 0	56 + 5.0	6 + 4.1
7 - .1	57 + 5.0	7 + 0	57 + 7.2	7 - 5.0
8 - .1	58 + 5.1	8 + 0	58 + 7.2	8 + 9.1
9 - .1	59 + 3.3	9 + .3	59 + 5.3	9 + 30.5
10 + 1.8	60 + 4.3	10 + .5	60 + 3.5	10 + 42.0
11 - .1	61 + 5.9	11 + 7.3	61 + 3.7	11 - 7.2
12 - .1	62 + 5.5	12 + 0	62 + 4.5	12 - 13.0
13 - .1	63 + 4.8	13 + .5	63 + 5.2	13 - 15.3
14 - .1	64 + 5.0	14 + 7.5	64 + 5.8	14 - 10.3
15 - .1	65 + 5.7	15 + .1	65 + 7.7	15 + 3.5
16 - .1	66 + 4.5	16 + 0	66 + 9.2	16 - 8.6
17 - .1	67 + 3.3	17 + .1	67 + 8.8	17 + 5.8
18 - .1	68 + 4.8	18 + .2	68 + 6.5	18 + 30.9
19 - .1	69 + 5.6	19 + .2	69 + 4.4	19 + 46.9
20 - .1	70 + 2.9	20 + .1	70 + 2.3	20 + .2
21 - .1	71 + 3.0	21 + .1	71 + 2.6	21 - 9.6
22 - .1	72 + 3.9	22 + 0	72 + 2.8	22 - 16.4
23 - .1	73 + 4.7	23 + .5	73 + 3.3	23 - 15.5
24 - .1	74 + 4.0	24 + 7.1	74 + 4.4	24 - 9.8
25 - .1	75 + 2.5	25 + .2	75 + 7.1	25 + 3.6
26 - .1	76 + 3.8	26 + .3	76 + 8.3	26 - 7.8
27 - .1	77 + 5.6	27 + .3	77 + 8.5	27 + 5.2
28 - .1	78 + 5.3	28 + .1	78 + 5.7	28 + 18.5
29 - .1	79 + 4.1	29 + .1	79 + 5.4	29 + 35.0
30 - .1	80 + 5.0	30 + .3	80 + 3.6	30 + .1
31 - .1	81 + 5.8	31 + 0	81 + 3.9	
32 - .1	82 + 6.2	32 + .1	82 + 4.2	Eq. 5
33 - .1	83 + 8.2	33 + .1	83 + 4.4	
34 - .1	84 + 1.2	34 + .1	84 + 4.7	
35 - .2	85 + 3.6	35 + 1.1	85 + 5.1	
36 - .1	86 + 4.6	36 + 0	86 + 5.3	
37 - .1	87 + 5.5	37 + .1	87 + 8.7	
38 - .1	88 + 6.9	38 + .5	88 + 4.0	
39 - .1	89 + 7.9	39 + .7	89 + 2.9	
40 - .1	90 + 2.8	40 + 0	90 + 4.1	
41 - .1	91 + 3.0	41 + 0	91 + 4.6	
42 - .1	92 + .1	42 + 0	92 + 8.2	
43 - .1	93 + 6.1	43 + 0	93 + 5.7	
44 - .1	94 + 4.0	44 + 0	94 + 2.6	
45 - .1	95 + 4.0	45 + 0	95 + 3.6	
46 - .1	96 + 4.6	46 + 0	96 + 4.3	
47 - .1	97 + 2.8	47 + 0	97 + 4.5	
48 - .1	98 + .1	48 + 0	98 + 4.6	
49 - .1	99 + .1	49 + 0	99 + 4.9	
50 - .1	100 + .1	50 + 0	100 + .1	

1832 .05 0° .25 0 10.0 +2.5° 1.049 2019.8 .002111

a) 1 + 0	51 + .1	b) 1 + 0	51 + .1	c) 1 + .2
2 + 0	52 + 1.0	2 + 0	52 + 1.0	2 -14.6
3 + 0	53 + .1	3 + 0	53 + .1	3 -24.3
4 + 0	54 + 9.0	4 + 0	54 + 4.2	4 -21.4
5 + 0	55 + 5.7	5 + .1	55 + 3.4	5 -12.3
6 + 0	56 + 5.7	6 + .3	56 + 1.0	6 + 4.2
7 + 0	57 + 5.8	7 + .5	57 + .2	7 - 2.8
8 + 0	58 + 6.0	8 + .8	58 + 1.2	8 +19.1
9 + 0	59 + 2.4	9 + 1.1	59 + 1.3	9 +36.0
10 + 1.3	60 + 3.8	10 + 2.3	60 + .3	10 +43.7
11 + 0	61 + 5.9	11 + 7.0	61 + 1.6	11 - 9.6
12 + 0	62 + 4.9	12 + 0	62 + 3.0	12 -14.5
13 + 0	63 + 2.2	13 + .6	63 + 3.9	13 -16.7
14 + 0	64 + 4.3	14 + 8.1	64 + 4.0	14 -11.9
15 + 0	65 + 6.5	15 + .1	65 + 5.8	15 + 2.4
16 + .1	66 + 3.1	16 + .2	66 + 9.0	16 - 8.1
17 + .1	67 + 1.1	17 + .2	67 + 9.6	17 + 3.6
18 + .1	68 + 4.6	18 + .2	68 + 9.1	18 +27.8
19 + .1	69 + 6.0	19 + .2	69 + 5.7	19 +43.2
20 + .1	70 + 1.8	20 + .2	70 + 1.8	20 + .1
21 + .1	71 + .3	21 + 0	71 + 1.4	21 - 3.6
22 + 0	72 + 2.7	22 + .1	72 + 1.0	22 - 7.0
23 + 0	73 + 5.9	23 + .1	73 + 2.5	23 - 8.1
24 + 0	74 + 1.9	24 + 4.2	74 + .3	24 - 6.5
25 + 0	75 + .1	25 + 0	75 + 1.3	25 + .2
26 + 0	76 + 2.9	26 + 0	76 + 5.5	26 - 5.4
27 + 0	77 + 5.5	27 + 0	77 +12.1	27 - 2.2
28 + 0	78 + 2.1	28 + 0	78 +13.3	28 + 7.4
29 + 0	79 + .3	29 + 0	79 +11.4	29 +25.6
30 + .1	80 + 4.3	30 + 0	80 + 6.5	30 + .1
31 + .1	81 + 6.6	31 + 0	81 + 3.2	
32 + .1	82 + 7.7	32 + 0	82 + 3.4	
33 + .1	83 +13.8	33 + 0	83 + 3.5	
34 + .1	84 + 1.0	34 + 0	84 + 4.6	
35 + 0	85 + 1.5	35 + 2.0	85 + 6.1	
36 + 0	86 + 3.5	36 + 0	86 + 6.7	
37 + 0	87 + 5.9	37 + 0	87 + 2.5	
38 + .1	88 + 2.4	38 + 0	88 + 2.7	
39 + .1	89 +14.3	39 + 0	89 + .2	
40 + .1	90 + 4.8	40 + 0	90 + 4.1	
41 + .1	91 + 1.4	41 + 0	91 + 5.8	
42 + .1	92 + .2	42 + 0	92 + 7.4	
43 + .1	93 + 5.5	43 + 0	93 + .9	
44 + .1	94 + 3.2	44 + 0	94 + 1.3	
45 + 0	95 + 4.0	45 + 0	95 + 3.7	
46 + 0	96 + 5.3	46 + 0	96 + 5.2	
47 + 0	97 + 3.6	47 + 0	97 + 4.4	
48 + 0	98 + .1	48 + 0	98 + 4.8	
49 + 0	99 + .1	49 + 0	99 + 5.9	
50 + 0	100 + .1	50 + 0	100 + .1	

Seq. 5

1848	.05	0°	.15	0	10.0	+5.0°	1.010	2027.6	.002250
a) 1 - .1		51 + .1		b) 1 + 0		51 + .1		c) 1 + .1	
2 - .1		52 + .0		2 - .1		52 + .7		2 - 2.9	
3 - .1		53 + .1		3 + 0		53 + .1		3 - 4.8	
4 - .1		54 + 2.5		4 + 0		54 + 1.5		4 - 4.2	
5 - .1		55 + 2.2		5 + 0		55 + 1.8		5 - 2.3	
6 - .1		56 + 1.0		6 + 0		56 + 1.2		6 + .6	
7 - .1		57 + .5		7 + 0		57 + .2		7 + .2	
8 - .1		58 + 1.0		8 + 0		58 + .7		8 + 4.2	
9 - .1		59 + .2		9 + 0		59 + .8		9 + 7.7	
10 + 2.5		60 + .4		10 + 0		60 + .8		10 + 9.4	
11 - .1		61 + .8		11 + .9		61 + .8		11 + .1	
12 - .1		62 + 1.0		12 + 0		62 + 1.2		12 + .1	
13 - .1		63 + 1.1		13 + .1		63 + 1.8		13 + .1	
14 - .1		64 + 1.2		14 + 1.6		64 + .4		14 + .1	
15 - .1		65 + 1.2		15 + 0		65 + .7		15 + 1.1	
16 - .1		66 + 1.0		16 + 0		66 + 2.0		16 + .6	
17 - .1		67 + 1.0		17 + .1		67 + 3.3		17 + 2.8	
18 - .1		68 + 1.1		18 + 1		68 + 3.1		18 + 7.6	
19 - .1		69 + 1.2		19 + 1		69 + .7		19 + 9.1	
20 - .1		70 + .1		20 + .1		70 + .1		20 + .2	
21 - .1		71 + .1		21 + .1		71 + 1		21 - .5	
22 - .1		72 + .1		22 + .1		72 + .1		22 - 1.1	
23 - .1		73 + .5		23 + .2		73 + .3		23 - 1.1	
24 - .1		74 + 1		24 + .5		74 + .1		24 - .9	
25 - .1		75 + .1		25 + .2		75 + .1		25 - .8	
26 - .1		76 + .1		26 + 0		76 + .1		26 - .5	
27 - .1		77 + .9		27 + 0		77 + .7		27 - .4	
28 - .1		78 + .1		28 + 0		78 + 3.2		28 - .1	
29 - .1		79 + .4		29 + 0		79 + 4.3		29 + 3.5	
30 - .1		80 + 1.1		30 + 0		80 + 1.2		30 + .1	
31 - .1		81 + 1.4		31 + 0		81 + .6			
32 - .1		82 + 1.5		32 + 0		82 + .7			
33 - .1		83 + 2.7		33 + 0		83 + .8			
34 - .1		84 + .2		34 + 0		84 + .9			
35 - .1		85 + .2		35 + 0		85 + 1.0			
36 - .1		86 + .3		36 + 0		86 + 1.1			
37 - .1		87 + .8		37 + 0		87 + .3			
38 - .1		88 + .1		38 + 0		88 + .7			
39 - .1		89 + 1.9		39 + 0		89 + .3			
40 - .1		90 + 1.1		40 + 0		90 + .5			
41 - .1		91 + .1		41 + 0		91 + .7			
42 - .1		92 + .1		42 + 0		92 + .8			
43 - .1		93 + .5		43 + 0		93 + .1			
44 - .1		94 + .1		44 + 0		94 + .2			
45 - .1		95 + .1		45 + 0		95 + .2			
46 - .1		96 + .3		46 + 0		96 + .2			
47 - .1		97 + .1		47 + 0		97 + .4			
48 - .1		98 + .2		48 + 0		98 + .2			
49 - .1		99 + .1		49 + 0		99 + .6			
50 - .1		100 + .1		50 + 0		100 + .1			

Seq. 5

1849 .05 0° .15 0 10.0 +2.5° 1.010 2027.6 .002251

a) 1 + 0	51 + .1	b) 1 - .1	51 + .1	c) 1 + .1
2 + 0	52 + .7	2 - .1	52 + .5	2 - 1.5
3 + 0	53 + .1	3 - .1	53 + .1	3 - 4.1
4 + 0	54 + 2.8	4 - .1	54 + 1.4	4 - 3.2
5 + 0	55 + 2.8	5 - .1	55 + 1.7	5 - 2.0
6 + 0	56 + 1.7	6 - .1	56 + 1.0	6 + .7
7 + 0	57 + 1.2	7 - .1	57 + .1	7 + .2
8 + 0	58 + 1.5	8 - .1	58 + .6	8 + 4.1
9 + 0	59 + 1.5	9 - .1	59 + .8	9 + 8.1
10 + .9	60 + 1.5	10 - .1	60 + .8	10 + 9.5
11 + 0	61 + 1.5	11 + 1.4	61 + .4	11 + .1
12 + 0	62 + 1.8	12 - .1	62 + 1.1	12 - 1.5
13 + 0	63 + 2.0	13 - .1	63 + 1.5	13 - 1.6
14 + 0	64 + 2.0	14 + 1.2	64 + .2	14 - 1.3
15 + 0	65 + 1.7	15 - .1	65 + .6	15 + 1.2
16 + 0	66 + 1.6	16 - .1	66 + 1.4	16 + .6
17 + 0	67 + 1.6	17 - .1	67 + 1.7	17 + 2.3
18 + 0	68 + 1.6	18 - .1	68 + 1.9	18 + 6.9
19 + 0	69 + 1.6	19 - .1	69 + 1.1	19 + 9.5
20 + 0.	70 + .1	20 - .1	70 + .1	20 + .2
21 + 0	71 + .3	21 - .1	71 + .1	21 - 1.5
22 + 0	72 + .4	22 - .1	72 + .2	22 - 1.6
23 + 0	73 + .7	23 - .1	73 + .2	23 - 1.5
24 + 0	74 + .6	24 + .2	74 + .1	24 - 1.4
25 + 0	75 + .4	25 - .1	75 + .1	25 - .7
26 + 0	76 + .5	26 + 0	76 + .2	26 - .8
27 + 0	77 + .9	27 - .1	77 + 2.0	27 - .7
28 + 0	78 + 1.2	28 - 1	78 + 2.7	28 - 1.7
29 + 0	79 + 1.3	29 - .1	79 + 2.9	29 + 5.3
30 + 0	80 + 1.5	30 - .1	80 + 1.7	30 + .1
31 + 0	81 + 1.0	31 - .1	81 + 1.2	
32 + 0	82 + 1.8	32 - .1	82 + 1.2	
33 + 0	83 + 2.7	33 + 0	83 + 1.2	Seq. 5
34 + 0	84 + .1	34 + 0	84 + 1.2	
35 + 0	85 + .4	35 + 0	85 + 1.2	
36 + 0	86 + .6	36 + 0	86 + 1.2	
37 + 0	87 + 1.0	37 + 0	87 + 1.2	
38 + 0	88 + .1	38 + 0	88 + 1.2	
39 + 0	89 + 2.8	39 + 0	89 + .8	
40 + 0	90 + .3	40 + 0	90 + .8	
41 + 0	91 + .5	41 - .1	91 + .8	
42 + 0	92 + .1	42 - .1	92 + .8	
43 + 0	93 + .8	43 - .1	93 + .4	
44 + 0	94 + .3	44 - .1	94 + .4	
45 + 0	95 + .4	45 - .1	95 + .1	
46 + 0	96 + .4	46 - .1	96 + .1	
47 + 0	97 + .4	47 - .1	97 + .1	
48 + 0	98 + .1	48 - .1	98 + .1	
49 + 0	99 + .1	49 - .1	99 + .3	
50 + 0	100 + .1	50 - .1	100 + .1	

1850 .05 0° .15 0 10.0 0° 1.010 2027.6 .002251

a) 1 + 0	51 + .1	b) 1 + 0	51 + .1	c) 1 + .1
2 + 0	52 + .7	2 + .1	52 + .9	2 - .6
3 + 0	53 + .1	3 + .1	53 + .3	3 - 2.3
4 + 0	54 + 2.5	4 + .1	54 + 2.3	4 - 2.1
5 + 0	55 + 2.8	5 + .1	55 + 3.2	5 - 1.0
6 + 0	56 + 1.0	6 + .1	56 + 1.3	6 + 1.3
7 + 0	57 + .9	7 + .1	57 + 1.6	7 + .3
8 + 0	58 + 1.1	8 + .1	58 + 2.0	8 + 2.3
9 + 0	59 + 1.3	9 + .1	59 + 1.8	9 + 7.6
10 + 0	60 + 1.3	10 + .1	60 + 1.8	10 + 9.1
11 + 0	61 + 1.3	11 + 1.5	61 + 1.8	11 + .2
12 + 0	62 + 1.7	12 + 0	62 + 2.3	12 - 1.2
13 + 0	63 + 3.1	13 + 0	63 + 2.5	13 - 1.6
14 + 0	64 + 2.0	14 + 1.5	64 + 1.3	14 - 1.1
15 + 0	65 + 1.9	15 + .1	65 + 1.7	15 + 1.4
16 + 0	66 + 1.9	16 + 0	66 + 2.8	16 + .6
17 + 0	67 + 1.9	17 + .1	67 + 2.9	17 + 1.9
18 + 0	68 + 1.9	18 + .1	68 + 2.9	18 + 7.6
19 + 0	69 + 2.0	19 + .1	69 + 2.1	19 + 9.8
20 + 0	70 + .1	20 + .2	70 + .5	20 + .1
21 + 0	71 + .7	21 + .2	71 + .9	21 - 1.8
22 + 0	72 + .9	22 + .2	72 + 1.0	22 - 3.6
23 + 0	73 + 1.0	23 + .2	73 + 1.1	23 - 3.1
24 + 0	74 + 1.0	24 + 1.4	74 + .5	24 - 1.8
25 + 0	75 + .9	25 + .1	75 + .8	25 + .6
26 + 0	76 + .9	26 + .1	76 + 1.1	26 - 1.2
27 + 0	77 + 1.0	27 + .1	77 + 2.0	27 + 1.2
28 + 0	78 + 1.2	28 + .1	78 + 2.1	28 + 3.9
29 + 0	79 + 1.5	29 + 0	79 + 2.0	29 + 6.4
30 + 0	80 + 1.7	30 + .1	80 + 2.0	30 + .2
31 + 0	81 + 1.7	31 + 0	81 + 2.1	
32 + 0	82 + 1.7	32 + 0	82 + 2.1	
33 + 0	83 + 1.9	33 + .1	83 + 2.1	
34 + 0	84 + .1	34 + .1	84 + 2.1	
35 + 0	85 + .7	35 + 0	85 + 2.1	
36 + 0	86 + 1.0	36 + 0	86 + 1.4	
37 + 0	87 + 1.3	37 + 0	87 + 2.1	
38 + 0	88 + 1.4	38 + .1	88 + 2.0	
39 + 0	89 + 1.5	39 + 0	89 + 1.9	
40 + 0	90 + .5	40 + 0	90 + 1.8	
41 + 0	91 + .6	41 + 0	91 + 1.8	
42 + 0	92 + .1	42 + 0	92 + 2.1	
43 + 0	93 + .7	43 + 0	93 + 1.4	
44 + 0	94 + .7	44 + 0	94 + 1.2	
45 + 0	95 + .7	45 + 0	95 + 1.2	
46 + 0	96 + .7	46 + 0	96 + .4	
47 + 0	97 + .7	47 + 0	97 + .8	
48 + 0	98 + .1	48 + 0	98 + 1.0	
49 + 0	99 + .1	49 + 0	99 + 1.2	
50 + 0	100 + .1	50 + 0	100 + .1	

Seq. 5

1851	.05	00	.15	0	10.0	-2.50	1.010	2027.6	.002251
a) 1 -	.1	51	.2	b) 1 + 0	51	.1	c) 1 -	.1	
2 -	.1	52	.7	2 + 0	52	1.1	2 +	.2	
3 -	.1	53	.1	3 + 0	53	.1	3 -	.8	
4 -	.1	54	1.0	4 + 0	54	1.9	4 -	.8	
5 -	.1	55	2.2	5 + 0	55	2.1	5 -	.8	
6 -	.1	56	2.4	6 + 0	56	.9	6 -	.9	
7 -	.1	57	1.9	7 + 0	57	2.2	7 -	1.0	
8 -	.1	58	1.8	8 + 0	58	4.7	8 -	1.0	
9 -	.1	59	1.0	9 + 0	59	2.6	9 -	4.4	
10 -	.1	60	1.0	10 + 0	60	1.4	10 -	0.5	
11 -	.1	61	1.6	11 + 0	61	.8	11 -	1.6	
12 -	.1	62	1.6	12 + 0	62	2.0	12 -	2.7	
13 -	.1	63	1.7	13 + 0	63	2.5	13 -	2.8	
14 -	.1	64	1.8	14 + 0	64	1.1	14 -	1.7	
15 -	.1	65	1.8	15 + 0	65	1.8	15 -	.0	
16 -	.1	66	1.8	16 + 0	66	3.3	16 -	.2	
17 -	.1	67	1.8	17 + 0	67	3.5	17 -	1.4	
18 -	.1	68	1.8	18 + 0	68	2.7	18 -	7.2	
19 -	.1	69	1.8	19 + 0	69	1.3	19 -	8.9	
20 -	.1	70	1.4	20 + 0	70	.0	20 -	.1	
21 -	.1	71	1.4	21 + 0	71	.9	21 -	3.5	
22 -	.1	72	1.3	22 + 0	72	1.0	22 -	5.4	
23 -	.1	73	1.3	23 + 0	73	1.0	23 -	4.8	
24 -	.1	74	.9	24 + 0	74	.8	24 -	3.6	
25 -	.1	75	.7	25 + 0	75	.0	25 -	.4	
26 -	.1	76	.7	26 + 0	76	.8	26 -	2.0	
27 -	.1	77	.9	27 + 0	77	1.2	27 -	1.5	
28 -	.1	78	1.4	28 + 0	78	1.5	28 -	3.7	
29 -	.1	79	1.6	29 + 0	79	2.0	29 -	0.3	
30 -	.1	80	1.7	30 + 0	80	1.7	30 -	.1	
31 -	.1	81	1.7	31 + 0	81	1.8			
32 -	.1	82	1.8	32 + 0	82	1.8			
33 -	.1	83	1.8	33 + 0	83	1.0			
34 -	.1	84	.1	34 + 0	84	1.8			
35 -	.1	85	.7	35 + 0	85	1.9			
36 -	.1	86	.9	36 + 0	86	1.9			
37 -	.1	87	1.1	37 + 0	87	4.5			
38 -	.1	88	1.3	38 + 0	88	1.5			
39 -	.1	89	1.3	39 + 0	89	.8			
40 -	.1	90	1.1	40 + 0	90	1.3			
41 -	.1	91	1.0	41 + 0	91	1.4			
42 -	.1	92	.1	42 + 0	92	3.9			
43 -	.1	93	.5	43 + 0	93	1.0			
44 -	.1	94	.0	44 + 0	94	.7			
45 -	.1	95	.0	45 + 0	95	.8			
46 -	.1	96	.6	46 + 0	96	1.1			
47 -	.1	97	.5	47 + 0	97	1.3			
48 -	.1	98	.1	48 + 0	98	1.1			
49 -	.1	99	.1	49 + 0	99	1.8			
50 -	.1	100	.1	50 + .1	100	.1			

Seq. 5

1852	.05	0°	.15	0	10.0	-5.0°	1.010	2027.6	.002251
a) 1 -	.1	51 + .1		b) 1 +	.2	51 + .2		c) 1 +	.1
2 -	.1	52 + 1.3		2 +	.2	52 + 1.3		2 +	.1
3 -	.1	53 + .1		3 +	.2	53 + .3		3 -	1.8
4 -	.1	54 + 2.2		4 +	.2	54 + 1.9		4 -	1.7
5 -	.1	55 + 1.9		5 +	.2	55 + 1.9		5 -	1.6
6 -	.1	56 + 1.8		6 +	.2	56 + .5		6 -	1.4
7 -	.1	57 + .9		7 +	.2	57 + .2		7 +	.2
8 -	.1	58 + .8		8 +	.2	58 + 3.9		8 +	.4
9 -	.1	59 + .1		9 +	.2	59 + 5.3		9 +	1.9
10 -	.1	60 + 1.0		10 +	.2	60 + 2.9		10 +	3.9
11 -	.1	61 + 1.5		11 +	.2	61 + .5		11 -	2.1
12 -	.1	62 + 1.5		12 +	.2	62 + 1.4		12 -	4.1
13 -	.1	63 + 1.5		13 +	.2	63 + 1.9		13 -	3.9
14 -	.1	64 + 1.6		14 +	.2	64 + .8		14 -	3.1
15 + 0		65 + 1.6		15 +	.2	65 + 1.2		15 +	.2
16 -	.1	66 + 1.2		16 +	.2	66 + 3.1		16 -	2.2
17 -	.1	67 + 1.0		17 +	.2	67 + 3.2		17 +	.9
18 -	.1	68 + 1.4		18 +	.2	68 + 2.9		18 -	5.7
19 -	.1	69 + 1.6		19 +	.2	69 + 1.3		19 -	8.5
20 -	.1	70 + .2		20 +	.2	70 + .1		20 +	.1
21 -	.1	71 + .3		21 +	.2	71 + .4		21 -	5.4
22 -	.1	72 + .3		22 +	.2	72 + .3		22 -	7.6
23 -	.1	73 + 1.0		23 +	.2	73 + .6		23 -	6.9
24 -	.1	74 + 1.2		24 + 1.1		74 + .6		24 -	5.0
25 -	.1	75 + .5		25 + 0		75 + .5		25 -	1.2
26 -	.1	76 + .3		26 + 0		76 + .2		26 -	4.0
27 -	.1	77 + 1.3		27 + 0		77 + .5		27 +	.1
28 -	.1	78 + 2.0		28 + 0		78 + 1.0		28 +	3.4
29 -	.1	79 + 2.1		29 + 0		79 + 1.6		29 +	6.0
30 -	.1	80 + 2.1		30 + 0		80 + 1.7		30 +	.1
31 -	.1	81 + 2.1		31 + 0		81 + 1.7			
32 -	.1	82 + 2.2		32 + 0		82 + 1.7		Seq. 5	
33 -	.1	83 + 1.4		33 + 0		83 + 1.5			
34 -	.1	84 + .1		34 + 0		84 + 1.5			
35 -	.1	85 + 1.2		35 + 0		85 + 1.9			
36 -	.1	86 + 1.3		36 + 0		86 + 1.9			
37 -	.1	87 + 1.7		37 + 0		87 + 4.2			
38 -	.1	88 + 1.7		38 + .2		88 + .7			
39 -	.1	89 + .3		39 + 0		89 + 1.5			
40 -	.1	90 + .5		40 + 0		90 + .7			
41 -	.1	91 + .7		41 + 0		91 + 1.3			
42 -	.1	92 + .1		42 + 0		92 + 4.5			
43 -	.1	93 + 1.3		43 + 0		93 + .9			
44 -	.1	94 + .8		44 + 0		94 + .1			
45 -	.1	95 + .8		45 + 0		95 + .3			
46 -	.1	96 + .8		46 + 0		96 + .8			
47 -	.1	97 + .5		47 + 0		97 + .6			
48 -	.1	98 + .1		48 + 0		98 + .8			
49 -	.1	99 + .1		49 + 0		99 + 1.3			
50 -	.1	100 + .1		50 + 0		100 + .1			

0.68 .05 0° .15 0 10.0 5.0° 1.048 2032.5 .002194

a) 1 - .1	51 - .1	b) 1 - 0	51 - .1	c) 1 - .1
2 - .1	52 - 1.6	2 - 0	52 - 1.5	2 - 16.5
3 - .1	53 - .1	3 - 0	53 - .1	3 - 24.5
4 - 1.4	54 - 10.2	4 - .1	54 - 4.2	4 - 19.5
5 - 0	55 - 7.0	5 - .3	55 - 4.4	5 - 11.2
6 - 0	56 - 6.0	6 - .3	56 - 1.9	6 - 5.0
7 - 0	57 - 6.2	7 - .4	57 - 2.4	7 - 6.0
8 - 0	58 - 7.0	8 - .5	58 - 4.0	8 - 32.5
9 - 0	59 - 3.8	9 - .6	59 - 3.8	9 - 37.3
10 - 3.4	60 - 4.9	10 - 1.5	60 - 3.9	10 - 38.5
11 - .1	61 - 6.4	11 - 4.5	61 - 4.3	11 - 5.7
12 - .1	62 - 5.2	12 - 0	62 - 5.8	12 - 10.4
13 - .1	63 - 3.9	13 - .4	63 - 6.3	13 - 10.8
14 - .1	64 - 3.5	14 - 1.1	64 - 2.0	14 - 8.5
15 - .1	65 - 6.8	15 - .2	65 - 5.0	15 - 4.1
16 - .1	66 - 3.0	16 - .3	66 - 11.3	16 - 5.7
17 - .1	67 - 2.6	17 - .3	67 - 14.9	17 - 4.5
18 - .1	68 - 6.0	18 - .3	68 - 13.7	18 - 24.0
19 - .1	69 - 7.3	19 - .4	69 - 6.6	19 - 30.1
20 - .1	70 - 1.3	20 - .4	70 - 1.8	20 - .2
21 - .1	71 - 1.0	21 - .4	71 - 2.1	21 - .1
22 - .1	72 - 4.5	22 - .4	72 - 2.5	22 - .5
23 - .1	73 - 7.2	23 - .4	73 - 4.1	23 - 2.4
24 - .1	74 - .2	24 - .9	74 - .5	24 - 1.2
25 - .1	75 - .1	25 - .7	75 - .1	25 - 1.0
26 - .1	76 - 5.1	26 - .6	76 - .5	26 - .1
27 - .1	77 - 7.5	27 - .6	77 - 8.5	27 - .1
28 - .1	78 - .5	28 - .6	78 - 22.7	28 - 3.5
29 - .1	79 - 1.7	29 - .6	79 - 23.7	29 - 11.0
30 - .1	80 - 7.2	30 - .6	80 - 10.4	30 - .2
31 - .1	81 - 1.1	31 - .5	81 - 3.4	
32 - .1	82 - 1.7	32 - .4	82 - 4.1	Seq. 5
33 - .1	83 - 11.5	33 - .4	83 - 4.8	
34 - .1	84 - 1.5	34 - .4	84 - 6.5	
35 - .1	85 - 1.8	35 - .4	85 - 7.3	
36 - .1	86 - 4.4	36 - 0	86 - 7.5	
37 - .1	87 - 7.0	37 - .1	87 - 2.6	
38 - .1	88 - .5	38 - .2	88 - 4.9	
39 - .1	89 - 17.3	39 - .2	89 - 2.8	
40 - .1	90 - 9.0	40 - 0	90 - 5.8	
41 - .1	91 - 1.8	41 - 0	91 - 6.9	
42 - .1	92 - .1	42 - 0	92 - 7.1	
43 - .1	93 - 6.9	43 - 0	93 - 2.2	
44 - .1	94 - 5.1	44 - 0	94 - 3.7	
45 - .1	95 - 6.1	45 - 0	95 - 5.4	
46 - .1	96 - 7.0	46 - 0	96 - 6.3	
47 - .1	97 - 4.2	47 - 0	97 - 6.0	
48 - .1	98 - .1	48 - 0	98 - 6.1	
49 - .1	99 - .1	49 - 0	99 - 7.1	
50 - .1	100 - .1	50 - 0	100 - .1	

1869	.05	0°	.15	0	10.0	+2.5°	1.049	2032.6	.002194
a) 1 - .1		51 + .1		b) 1 + 0		51 + .1		c) 1 + .2	
2 - .1		52 + .8		2 + 0		52 + 1.0		2 - 11.7	
3 - .1		53 + .1		3 + 0		53 + .1		3 - 19.6	
4 - .1		54 + 9.5		4 + 0		54 + 5.1		4 - 17.1	
5 - .1		55 + 7.2		5 + 0		55 + 5.6		5 - 8.8	
6 - .1		56 + 5.8		6 + 0		56 + 2.8		6 + 5.8	
7 - .1		57 + 5.9		7 + 0		57 + 4.0		7 + .1	
8 - .1		58 + 6.5		8 + 0		58 + 5.6		8 + 19.6	
9 + 0		59 + 4.5		9 + .3		59 + 5.7		9 + 33.2	
10 + 1.8		60 + 5.3		10 + .5		60 + 5.7		10 + 39.3	
11 - .1		61 + 6.2		11 + 6.8		61 + 5.7		11 - 5.5	
12 - .1		62 + 6.3		12 + 0		62 + 6.1		12 - 10.1	
13 - .1		63 + 6.1		13 + 0		63 + 6.7		13 - 11.6	
14 + 0		64 + 6.1		14 + 7.3		64 + 2.9		14 - 8.6	
15 + 0		65 + 6.6		15 + .1		65 + 6.1		15 + 4.5	
16 + .1		66 + 4.5		16 + 0		66 + 10.6		16 - 5.7	
17 + .1		67 + 4.7		17 + 0		67 + 11.0		17 + 5.1	
18 + .1		68 + 6.5		18 + 0		68 + 9.3		18 + 25.5	
19 + .1		69 + 6.9		19 + 0		69 + 5.8		19 + 39.6	
20 + .1		70 + 3.0		20 + 0		70 + 3.5		20 + .2	
21 + .1		71 + 3.4		21 + 0		71 + 4.0		21 - .7	
22 + .1		72 + 5.0		22 + 0		72 + 4.2		22 - 3.8	
23 + .1		73 + 6.7		23 + 0		73 + 5.0		23 - 4.8	
24 + .1		74 + 2.3		24 + 2.6		74 + .2		24 - 3.7	
25 + 0		75 + 2.5		25 + 0		75 + .7		25 + .7	
26 + 0		76 + 5.1		26 + 0		76 + 5.9		26 - 1.9	
27 + 0		77 + 7.4		27 + 0		77 + 17.0		27 + .2	
28 + 0		78 + 4.8		28 + 0		78 + 17.3		28 + 8.3	
29 + 0		79 + 5.0		29 + 0		79 + 11.9		29 + 24.2	
30 + 0		80 + 7.2		30 + 0		80 + 6.1		30 + .1	
31 + 0		81 + 7.9		31 + 0		81 + 5.7			
32 + 0		82 + 8.1		32 + 0		82 + 5.9		Seq. 5	
33 + 0		83 + 15.9		33 + 0		83 + 6.2			
34 + 0		84 + 1.4		34 + 0		84 + 6.3			
35 + 0		85 + 4.2		35 + 0		85 + 6.8			
36 + 0		86 + 5.7		36 + 0		86 + 7.0			
37 + 0		87 + 6.8		37 + 0		87 + 5.8			
38 + .1		88 + .8		38 + 0		88 + 5.8			
39 + 0		89 + 4.7		39 + 0		89 + 4.7			
40 + 0		90 + 3.8		40 + 0		90 + 5.7			
41 + 0		91 + .1		41 + 0		91 + 6.4			
42 + 0		92 + 7.0		42 + 0		92 + 7.9			
43 + 0		93 + 6.0		43 + 0		93 + 3.8			
44 + .1		94 + 6.4		44 + 0		94 + 4.4			
45 + .1		95 + 6.6		45 + 0		95 + 5.2			
46 - .1		96 + 3.8		46 + 0		96 + 5.9			
47 - .1		97 + .1		47 + 0		97 + 5.9			
48 - .1		98 + .1		48 + 0		98 + 6.1			
49 - .1		99 + .1		49 + 0		99 + 6.6			
50 - .1		100 + .1		50 + 0		100 + .1			

1870	.05	0°	.15	0	10.0	0°	1.049	2032.6	.002194
a) 1 - .1		51 + .1		b) 1 + 0		51 + .2		c) 1 + .1	
2 - .1		52 + .4		2 + 0		52 + .7		2 - 4.4	
3 - .1		53 + .1		3 + 0		53 + .2		3 - 10.3	
4 - .1		54 + 7.8		4 + 0		54 + 5.9		4 - 9.6	
5 + 0		55 + 7.9		5 + 0		55 + 9.0		5 - 4.2	
6 + 0		56 + 7.6		6 + 0		56 + 7.3		6 + 7.2	
7 + 0		57 + 6.1		7 + 0		57 + 9.1		7 - 1.8	
8 + 0		58 + 6.3		8 + 0		58 + 9.0		8 + 10.5	
9 + 0		59 + 6.0		9 + 0		59 + 6.4		9 + 27.8	
10 + 1.4		60 + 6.2		10 + 0		60 + 6.1		10 + 38.8	
11 + .1		61 + 6.7		11 + 5.6		61 + 6.2		11 - 4.3	
12 + .1		62 + 6.8		12 + 0		62 + 7.2		12 - 8.5	
13 + .1		63 + 6.8		13 + 0		63 + 7.8		13 - 9.9	
14 + .1		64 + 7.1		14 + 5.5		64 + 4.1		14 - 6.2	
15 + .1		65 + 7.2		15 + 0		65 + 8.2		15 + 5.7	
16 + 0		66 + 6.6		16 + 0		66 + 12.2		16 - 3.5	
17 + 0		67 + 6.6		17 + 0		67 + 11.8		17 + 9.7	
18 + 0		68 + 7.2		18 + 0		68 + 8.4		18 + 29.7	
19 + 0		69 + 7.3		19 + 0		69 + 6.1		19 + 42.9	
20 + 0		70 + 4.6		20 + 0		70 + 5.0		20 + .2	
21 + 0		71 + 5.2		21 + 0		71 + 5.7		21 - 4.7	
22 + 0		72 + 6.1		22 + 0		72 + 5.9		22 - 10.0	
23 + .1		73 + 6.4		23 + 0		73 + 6.2		23 - 10.0	
24 + .1		74 + 5.7		24 + 5.9		74 + 3.0		24 - 5.2	
25 + .1		75 + 5.3		25 + 0		75 + 6.7		25 + 5.8	
26 + .1		76 + 5.6		26 + 0		76 + 10.4		26 - 4.2	
27 + .1		77 + 6.7		27 + 0		77 + 10.5		27 + 6.6	
28 + .1		78 + 6.9		28 + 0		78 + 7.9		28 + 18.9	
29 + .1		79 + 6.9		29 + 0		79 + 6.8		29 + 32.7	
30 + .2		80 + 7.1		30 + 0		80 + 6.8		30 + .2	
31 + .2		81 + 7.3		31 + 0		81 + 6.9			
32 + .2		82 + 7.5		32 + 0		82 + 7.2		Seq. 5	
33 + .2		83 + 9.7		33 + 0		83 + 7.4			
34 + .2		84 + 1.4		34 + 0		84 + 7.4			
35 + .2		85 + 5.8		35 + 0		85 + 7.5			
36 + .2		86 + 6.4		36 + 0		86 + 7.6			
37 + .2		87 + 6.9		37 + 0		87 + 10.6			
38 + .2		88 + 5.0		38 + 0		88 + 6.5			
39 + .2		89 + 9.8		39 + 0		89 + 5.7			
40 + .2		90 + 4.9		40 + 0		90 + 6.5			
41 + .2		91 + 5.5		41 + 0		91 + 7.0			
42 + .2		92 + .1		42 + 0		92 + 10.8			
43 + .2		93 + 6.5		43 + 0		93 + 5.9			
44 + .2		94 + 6.4		44 + 0		94 + 5.9			
45 + .2		95 + 6.3		45 + 0		95 + 6.2			
46 + .1		96 + 6.3		46 + 0		96 + 6.5			
47 + .1		97 + 3.4		47 + 0		97 + 6.7			
48 + .1		98 + .1		48 + 0		98 + 6.9			
49 + .1		99 + .1		49 + 0		99 + 7.1			
50 + .1		100 + .1		50 + 0		100 + .1			

1871 .05 0° .15 0 10.0 -2.5° 1.049 2032.6 .002194

a) 1 + .1	51 + .2	b) 1 + 0	51 + .1	c) 1 + .1
2 + .1	52 + 1.1	2 + 0	52 + .5	2 + .3
3 + .1	53 + .4	3 + 0	53 + .1	3 - 2.7
4 + .1	54 + 5.3	4 + 0	54 + 1.8	4 - 3.7
5 + .1	55 + 6.5	5 + 0	55 + 3.3	5 - 1.9
6 + .1	56 + 8.0	6 + 0	56 + 3.2	6 + 3.3
7 + .1	57 + 8.2	7 + 0	57 + 12.3	7 - .8
8 + .3	58 + 4.8	8 + 0	58 + 18.5	8 + 1.6
9 + .5	59 + 4.7	9 + 0	59 + 12.7	9 + 15.7
10 + 1.5	60 + 6.6	10 + 0	60 + 6.9	10 + 31.1
11 + 0	61 + 8.1	11 + 1.4	61 + 4.3	11 - 8.2
12 + 0	62 + 5.2	12 + 0	62 + 5.7	12 - 13.5
13 + 0	63 + 5.6	13 + .2	63 + 6.4	13 - 15.0
14 + .1	64 + 7.2	14 + 2.7	64 + 3.2	14 - 9.2
15 + .3	65 + 8.1	15 + .2	65 + 7.6	15 + 4.7
16 + .2	66 + 5.9	16 + 0	66 + 14.0	16 - 5.4
17 + .4	67 + 5.7	17 + 0	67 + 13.6	17 + 11.2
18 + 0	68 + 7.0	18 + .1	68 + 8.6	18 + 32.2
19 + .1	69 + 7.7	19 + .1	69 + 4.9	19 + 44.2
20 + .2	70 + 5.2	20 + .1	70 + 3.4	20 + .1
21 + .1	71 + 5.3	21 + .1	71 + 3.6	21 - 11.9
22 + .4	72 + 6.0	22 + .1	72 + 3.8	22 - 20.0
23 + .5	73 + 7.0	23 + .1	73 + 4.6	23 - 17.1
24 + .5	74 + 6.9	24 + 7.1	74 + 3.8	24 - 9.3
25 + 0	75 + 5.8	25 + .1	75 + 3.9	25 - 6.0
26 + .1	76 + 5.9	26 + .3	76 + 4.2	26 - 2.5
27 + .1	77 + 7.3	27 + .4	77 + 4.8	27 + 15.7
28 + .1	78 + 8.5	28 + .4	78 + 5.5	28 + 23.7
29 + .2	79 + 8.0	29 + .4	79 + 5.0	29 + 33.9
30 + .1	80 + 7.9	30 + .4	80 + 6.0	30 + .1
31 + .2	81 + 7.9	31 + .1	81 + 6.1	
32 + 0	82 + 8.6	32 + 0	82 + 6.1	
33 + 0	83 + 8.7	33 + .2	83 + 6.1	Seq. 5
34 + 0	84 + 1.8	34 + .2	84 + 6.6	
35 + 0	85 + 6.1	35 + .2	85 + 7.4	
36 + .1	86 + 6.5	36 + .2	86 + 7.6	
37 + 0	87 + 7.6	37 + .3	87 + 20.9	
38 + .1	88 + 7.8	38 + .9	88 + 5.1	
39 + 0	89 + 6.8	39 + 1.5	89 + 4.8	
40 + 0	90 + 4.2	40 + 0	90 + 6.0	
41 + 0	91 + 5.4	41 + 0	91 + 7.2	
42 + 0	92 + .1	42 + 0	92 + 18.9	
43 + .2	93 + 7.2	43 + 0	93 + 4.8	
44 + 0	94 + 6.5	44 + 0	94 + 4.5	
45 + .1	95 + 6.7	45 + 0	95 + 5.5	
46 + 0	96 + 6.9	46 + 0	96 + 6.3	
47 + 0	97 + 4.5	47 + 0	97 + 5.8	
48 + 0	98 + .1	48 + 0	98 + 6.3	
49 + 0	99 + .1	49 + 0	99 + 6.9	
50 + 0	100 + .1	50 + 0	100 + .1	

1872 .05 0⁰ .15 0 10.0 -5.0⁰ 1 048 2032.6 .002194

a) 1 + 0	51 + .2	b) 1 + 0	51 + .1	c) 1 + .1
2 + .2	52 + 1.4	2 + .2	52 + .5	2 + 1.3
3 + .2	53 + .5	3 + .2	53 + .1	3 + .8
4 + .2	54 + 1.9	4 + .2	54 + 1.4	4 + 2.0
5 + .2	55 + 3.4	5 + .2	55 + 1.6	5 + 1.3
6 + .2	56 + 7.9	6 + .2	56 + .4	6 + 1.3
7 + .2	57 + 8.1	7 + .2	57 + 1.7	7 + .3
8 + .3	58 + 2.3	8 + .2	58 + 19.2	8 + 1.0
9 + .3	59 + 1.0	9 + .2	59 + 26.2	9 + 9.7
10 + 1.0	60 + 6.2	10 + .2	60 + 15.5	10 + 22.4
11 + 0	61 + 8.3	11 + .2	61 + 3.2	11 + 10.8
12 + 0	62 + 2.6	12 + .1	62 + 3.3	12 + 16.0
13 + 0	63 + 2.8	13 + .2	63 + 4.1	13 + 17.4
14 + 0	64 + 6.7	14 + 1.0	64 + 2.3	14 + 11.2
15 + .1	65 + 8.1	15 + .2	65 + 5.7	15 + .6
16 + .1	66 + 3.7	16 + 0	66 + 12.5	16 + 8.8
17 + .2	67 + 3.4	17 + 0	67 + 13.8	17 + 6.7
18 + .2	68 + 6.3	18 + .2	68 + 9.6	18 + 30.3
19 + .2	69 + 7.8	19 + .3	69 + 4.5	19 + 45.7
20 + .2	70 + 3.7	20 + 0	70 + 1.0	20 + .1
21 + .2	71 + 3.6	21 + .1	71 + 1.3	21 + 19.0
22 + .2	72 + 5.0	22 + .1	72 + 1.6	22 + 26.7
23 + .3	73 + 6.5	23 + .2	73 + 3.6	23 + 21.7
24 + .4	74 + 6.8	24 + 7.3	74 + 2.3	24 + 12.6
25 + .4	75 + 3.7	25 + .3	75 + 2.3	25 + 4.7
26 + .4	76 + 4.7	26 + .3	76 + 2.3	26 + 2.1
27 + .4	77 + 7.1	27 + .5	77 + 2.5	27 + 27.2
28 + .4	78 + 8.8	28 + .5	78 + 3.5	28 + 28.5
29 + .4	79 + 5.9	29 + .5	79 + 4.0	29 + 34.3
30 + .4	80 + 6.2	30 + 1.7	80 + 4.2	30 + .1
31 + .4	81 + 7.0	31 + .1	81 + 4.7	
32 + .4	82 + 8.5	32 + .2	82 + 5.3	
33 + .1	83 + 6.5	33 + .2	83 + 5.5	
34 + .1	84 + .9	34 + .4	84 + 5.8	
35 + .2	85 + 4.5	35 + .4	85 + 7.1	
36 + .2	86 + 5.8	36 + .5	86 + 7.4	
37 + .2	87 + 7.6	37 + .9	87 + 21.6	
38 + .3	88 + 7.5	38 + 1.4	88 + 2.1	
39 + .1	89 + 2.1	39 + 1.8	89 + 7.4	
40 + .1	90 + 2.7	40 + 0	90 + 5.3	
41 + .1	91 + 4.7	41 + 0	91 + 6.7	
42 + .1	92 + .1	42 + 0	92 + 23.0	
43 + .1	93 + 7.2	43 + 0	93 + 5.5	
44 + .1	94 + 5.8	44 + 0	94 + 1.7	
45 + .2	95 + 6.2	45 + 0	95 + 4.5	
46 + 0	96 + 6.8	46 + 0	96 + 6.2	
47 + 0	97 + 4.9	47 + 0	97 + 5.4	
48 + 0	98 + .1	48 + 0	98 + 5.9	
49 + 0	99 + .1	49 + 0	99 + 6.9	
50 + 0	100 + .1	50 + 0	100 + .1	

Seq. 5

1903	.05	0°	.10	0	10.0	45.0°	1.010	2030.4	.002225
a) 1 + 0		51	.1	b) 1	0	51	.1	c) 1	.1
2 + 0		52	1.6	2	0	52	.9	2	3.6
3 + 0		53	.9	3	0	53	.1	3	5.3
4 + 0		54	5.1	4	0	54	3.2	4	4.3
5 + 0		55	4.1	5	0	55	3.1	5	3.4
6 + 0		56	2.9	6	0	56	1.2	6	.3
7 + 0		57	1.8	7	0	57	.9	7	.1
8 + 0		58	3.5	8	0	58	2.5	8	2.9
9 + 0		59	2.3	9	0	59	1.9	9	7.0
10 + 5.2		60	2.5	10	0	60	1.3	10	8.7
11 + 0		61	2.4	11	.3	61	1.5	11	.1
12 + 0		62	3.0	12	.1	62	2.9	12	.7
13 + 0		63	3.1	13	0	63	3.1	13	.9
14 + 0		64	3.1	14	.7	64	1.0	14	.2
15 + 0		65	2.3	15	0	65	1.4	15	.2
16 + 0		66	2.0	16	0	66	3.5	16	.4
17 + 0		67	2.2	17	0	67	4.3	17	1.4
18 + 0		68	3.0	18	0	68	3.1	18	5.0
19 + 0		69	2.5	19	0	69	1.7	19	7.0
20 + 0		70	1.0	20	0	70	.4	20	.1
21 + 0		71	1.5	21	0	71	.6	21	.1
22 + 0		72	1.8	22	0	72	.9	22	2.0
23 + 0		73	2.1	23	0	73	1.2	23	1.9
24 + 0		74	1.0	24	0	74	.1	24	1.7
25 + 0		75	1.5	25	0	75	.7	25	.5
26 + 0		76	2.0	26	0	76	.6	26	.5
27 + 0		77	2.5	27	0	77	1.3	27	.5
28 + 0		78	1.7	28	0	78	.3	28	.6
29 + 0		79	3.0	29	0	79	5.1	29	2.5
30 + 0		70	3.1	30	0	80	2.1	30	.1
31 + 0		81	3.1	31	0	81	1.9		
32 + 0		82	3.1	32	0	82	2.3	Seq. 5	
33 + 0		83	5.9	33	0	83	2.0		
34 + 0		84	1.0	34	0	84	1.8		
35 + 0		85	2.3	35	0	85	2.1		
36 + 0		86	2.4	36	0	86	1.9		
37 + 0		87	3.1	37	0	87	1.6		
38 + 0		88	.9	38	0	88	1.9		
39 + 0		89	4.1	39	0	89	1.4		
40 + 0		90	2.0	40	0	90	1.5		
41 + 0		91	1.8	41	0	91	1.6		
42 + 0		92	.5	42	0	92	1.7		
43 + 0		93	2.2	43	0	93	.9		
44 + 0		94	1.9	44	0	94	1.0		
45 + 0		95	1.7	45	0	95	1.0		
46 + 0		96	1.8	46	0	96	1.3		
47 + 0		97	1.0	47	0	97	1.4		
48 + 0		98	.3	48	0	98	1.6		
49 + 0		99	.4	49	0	99	1.8		
50 + 0		100	.2	50	0	100	.1		

1904 .05 0° .10 0 10.0 +2.5° 1.010 2032.6 .002225

a) 1 + 0	51 + .1	b) 1 + .1	51 + .1	c) 1 + .1
2 + 0	52 + .9	2 + 0	52 + 1.4	2 + .1
3 + 0	53 + .1	3 + 0	53 + .1	3 + 3.2
4 + 0	54 + 4.4	4 + 0	54 + 2.9	4 + 2.6
5 + 0	55 + 4.0	5 + 0	55 + 3.1	5 + .2
6 + 0	56 + 2.5	6 + 0	56 + 1.4	6 + 1.3
7 + 0	57 + 1.3	7 + 0	57 + 1.5	7 + 1.3
8 + 0	58 + 2.6	8 + 0	58 + 2.5	8 + 3.2
9 + 0	59 + 1.8	9 + 0	59 + 2.0	9 + 7.8
10 + 1.7	60 + 1.8	10 + 1.0	60 + 2.0	10 + 10.4
11 + 0	61 + 1.9	11 + .1	61 + 2.0	11 + .7
12 + 0	62 + 2.7	12 + .1	62 + 2.8	12 + .1
13 + 0	63 + 2.8	13 + 1.1	63 + 3.0	13 + .1
14 + 0	64 + 2.9	14 + .1	64 + .8	14 + .1
15 + 0	65 + 2.5	15 + 1	65 + 1.3	15 + 1.1
16 + 0	66 + 2.4	16 + 1	66 + 3.2	16 + 1.3
17 + 0	67 + 2.4	17 + .1	67 + 3.3	17 + 2.1
18 + 0	68 + 2.6	18 + .1	68 + 3.0	18 + 6.7
19 + 0	69 + 2.0	19 + .1	69 + 1.9	19 + 9.5
20 + 0	70 + .7	20 + 1	70 + .9	20 + .9
21 + 0	71 + 1.4	21 + .1	71 + 1.3	21 + .3
22 + 0	72 + 1.6	22 + .1	72 + 1.4	22 + .1
23 + 0	73 + 1.6	23 + .1	73 + 1.5	23 + .1
24 + 0	74 + 1.0	24 + .1	74 + .1	24 + .1
25 + 0	75 + 1.1	25 + .1	75 + .1	25 + .3
26 + 0	76 + 1.5	26 + .1	76 + .3	26 + .4
27 + 0	77 + 2.0	27 + .1	77 + 4.4	27 + .5
28 + 0	78 + 2.1	28 + .1	78 + 4.3	28 + 1.6
29 + 0	79 + 2.5	29 + .1	79 + 3.6	29 + 4.4
30 + 0	80 + 2.6	30 + .1	80 + 2.1	30 + .1
31 + 0	81 + 2.6	31 + .1	81 + 2.3	
32 + 0	82 + 2.6	32 + .1	82 + 2.5	Seq. 5
33 + 0	83 + 4.6	33 + .1	83 + 2.6	
34 + 0	84 + .7	34 + .1	84 + 2.1	
35 + 0	85 + 1.8	35 + .1	85 + 2.2	
36 + 0	86 + 2.0	36 + .1	86 + 2.3	
37 + 0	87 + 2.4	37 + .1	87 + 2.3	
38 + 0	88 + .3	38 + .1	88 + 2.3	
39 + 0	89 + 4.5	39 + .1	89 + 2.3	
40 + 0	90 + 1.5	40 + .1	90 + 1.7	
41 + 0	91 + 1.6	41 + .1	91 + 1.8	
42 + 0	92 + .1	42 + 1	92 + 2.2	
43 + 0	93 + 1.8	43 + .1	93 + 1.4	
44 + 0	94 + 1.6	44 + 1	94 + 1.2	
45 + 0	95 + 1.6	45 + .1	95 + 1.4	
46 + 0	96 + 1.3	46 + 1	96 + 1.5	
47 + 0	97 + 1.1	47 + .1	97 + 1.6	
48 + 0	98 + .1	48 + .1	98 + 1.7	
49 + 0	99 + .1	49 + .1	99 + 2.0	
50 + 0	100 + .1	50 + 1	100 + .1	

1905 .05 0° .10 0 10.0 0° 1.010 2032.6 .002225

a) 1 + 0	51 + .2	b) 1 + .1	51 + .1	c) 1 + .1
2 + 0	52 + 1.2	2 + .1	52 + 1.0	2 + .1
3 + 0	53 + .1	3 + .1	53 + .1	3 - 2.1
4 + 0	54 + 4.0	4 + .1	54 + 2.7	4 - 1.9
5 + 0	55 + 3.8	5 + .1	55 + 3.7	5 + .7
6 + 0	56 + 2.5	6 + .1	56 + 1.8	6 + .7
7 + 0	57 + 1.4	7 + .1	57 + 2.2	7 + .8
8 + 0	58 + 2.4	8 + .1	58 + 3.0	8 + 2.5
9 + 0	59 + 2.4	19 + .1	59 + 2.2	9 + 6.2
10 + 1.1	60 + 2.4	10 + .1	60 + 2.0	10 + 8.1
11 + .1	61 + 2.4	11 + .3	61 + 2.0	11 + .1
12 + 0	62 + 2.7	12 + .1	62 + 2.7	12 + .1
13 + 0	63 + 3.2	13 + .1	63 + 3.1	13 + .1
14 + 0	64 + 3.1	14 + .2	64 + .9	14 + .1
15 + 0	65 + 2.8	15 + 0	65 + 1.5	15 + .9
16 + 0	66 + 2.2	16 + 0	66 + 3.4	16 + 1.2
17 + 0	67 + 2.5	17 + 0	67 + 3.5	17 + 1.4
18 + 0	68 + 2.7	18 + 0	68 + 2.9	18 + 5.6
19 + 0	69 + 2.6	19 + 0	69 + 2.1	19 + 8.0
20 + 0	70 + 1.1	20 + 0	70 + 1.3	20 + .1
21 + 0	71 + 1.6	21 + 0	71 + 1.5	21 - 1.4
22 + 0	72 + 1.7	22 + 0	72 + 1.6	22 - 2.6
23 + 0	73 + 1.7	23 + 0	73 + 1.7	23 - 2.6
24 + 0	74 + 1.8	24 + .2	74 + .1	24 - 2.5
25 + 0	75 + 1.8	25 + 0	75 + .5	25 + .2
26 + 0	76 + 1.6	26 + 0	76 + 2.3	26 - 1.5
27 + 0	77 + 2.0	27 + 0	77 + 3.0	27 + .2
28 + 0	78 + 2.3	28 + 0	78 + 2.9	28 + 2.4
29 + 0	79 + 2.7	29 + 0	79 + 2.9	29 + 5.2
30 + 0	80 + 2.8	30 + 0	80 + 2.9	30 + .1
31 + 0	81 + 2.6	31 + 0	81 + 2.8	
32 + 0	82 + 2.7	32 + 0	82 + 2.8	Seq. 5
33 + 0	83 + 2.9	33 + 0	83 + 2.6	
34 + 0	84 + .7	34 + 0	84 + 2.6	
35 + 0	85 + 2.0	35 + 0	85 + 2.6	
36 + 0	86 + 2.1	36 + 0	86 + 2.5	
37 + 0	87 + 2.5	37 + 0	87 + 3.0	
38 + 0	88 + .8	38 + 0	88 + 2.7	
39 + 0	89 + 2.6	39 + 0	89 + 1.9	
40 + 0	90 + 1.8	40 + 0	90 + 1.9	
41 + 0	91 + 1.9	41 + 0	91 + 2.0	
42 + 0	92 + .2	42 + 0	92 + 3.0	
43 + 0	93 + 1.9	43 + 0	93 + 1.7	
44 + 0	94 + 1.7	44 + 0	94 + .6	
45 + 0	95 + 1.7	45 + 0	95 + 1.6	
46 + 0	96 + 1.7	46 + 0	96 + 1.6	
47 + 0	97 + 1.0	47 + 0	97 + 1.7	
48 + 0	98 + .1	48 + 0	98 + 2.0	
49 + 0	99 + .1	49 + 0	99 + 2.0	
50 + 0	100 + .1	50 + 0	100 + .1	

1906	.05	0°	.10	0	10.0	-2.5°	1.010	2032.6	.002225
a) 1 -	.1	51 +	.1	b) 1 -	.1	51 +	.1	c) 1 +	.1
2 -	.1	52 +	1.0	2 -	.1	52 +	.8	2 +	.1
3 -	.1	53 +	.1	3 -	.1	53 +	.1	3 +	.1
4 -	.1	54 +	3.7	4 -	.1	54 +	2.4	4 +	.1
5 -	.1	55 +	3.8	5 -	.1	55 +	2.0	5 +	.1
6 -	.1	56 +	3.1	6 -	.1	56 +	.5	6 +	.2
7 -	.1	57 +	1.3	7 -	.1	57 +	2.4	7 +	.4
8 -	.1	58 +	2.1	8 -	.1	58 +	4.6	8 +	.8
9 -	.1	59 +	2.2	9 -	.1	59 +	2.7	9 +	3.3
10 +	.2	60 +	2.2	10 -	.1	60 +	1.2	10 +	5.7
11 +	0	61 +	2.2	11 -	.1	61 +	1.4	11 +	.2
12 -	.1	62 +	2.3	12 -	.1	62 +	2.4	12 -	1.0
13 -	.1	63 +	2.8	13 -	.1	63 +	2.0	13 -	1.1
14 -	.1	64 +	3.0	14 -	.1	64 +	.5	14 -	1.1
15 -	.1	65 +	2.8	15 +	0	65 +	1.0	15 +	.8
16 -	.1	66 +	2.5	16 +	0	66 +	3.0	16 +	.6
17 -	.1	67 +	2.5	17 +	0	67 +	3.3	17 +	1.4
18 -	.1	68 +	2.5	18 +	0	68 +	2.9	18 +	6.0
19 -	.1	69 +	2.4	19 +	0	69 +	2.4	19 +	9.6
20 -	.1	70 +	1.2	20 +	0	70 +	1.2	20 +	.2
21 -	.1	71 +	1.2	21 +	0	72 +	1.2	21 -	2.3
22 -	.1	72 +	1.2	22 +	0	72 +	1.0	22 -	3.4
23 -	.1	73 +	1.4	23 +	0	73 +	1.1	23 -	4.1
24 -	.1	74 +	1.6	24 +	1.1	74 +	.8	24 -	3.0
25 -	.1	75 +	1.4	25 +	0	75 +	.8	25 +	.2
26 -	.1	76 +	1.4	26 +	0	76 +	.8	26 -	1.8
27 -	.1	77 +	1.8	27 +	0	77 +	1.3	27 +	.2
28 -	.1	78 +	2.3	28 -	.1	78 +	1.6	28 +	3.3
29 -	.1	79 +	2.6	29 -	.1	79 +	1.9	29 +	6.3
30 -	.1	80 +	2.7	30 -	.1	80 +	2.1	30 +	.1
31 -	.1	81 +	2.6	31 -	.1	81 +	2.1		
32 -	.1	82 +	2.6	32 -	.1	82 +	2.1	Seq. 5	
33 -	.1	83 +	2.5	33 -	.1	83 +	2.2		
34 -	.1	84 +	.8	34 -	.1	84 +	2.2		
35 -	.1	85 +	1.8	35 -	.1	85 +	2.2		
36 -	.1	86 +	2.0	36 -	.1	86 +	2.2		
37 -	.1	87 +	2.1	37 -	.1	87 +	4.8		
38 -	.1	88 +	2.2	38 -	.1	88 +	1.5		
39 -	.1	89 +	2.3	39 -	.1	89 +	1.5		
40 -	.1	90 +	1.9	40 -	.1	90 +	1.5		
41 -	.1	91 +	1.9	41 -	.1	91 +	1.5		
42 -	.1	92 +	.2	42 -	.1	92 +	3.4		
43 -	.1	93 +	1.7	43 -	.1	93 +	.7		
44 -	.1	94 +	1.7	44 -	.1	94 +	.8		
45 -	.1	95 +	1.5	45 -	.1	95 +	.8		
46 -	.1	96 +	1.4	46 -	.1	96 +	.8		
47 -	.1	97 +	1.3	47 -	.1	97 +	.9		
48 -	.1	98 +	.2	48 -	.1	98 +	1.1		
49 -	.1	99 +	.1	49 -	.1	99 +	1.3		
50 -	.1	100 +	.1	50 -	.1	100 +	.1		

1937	.05	0°	.10	0	10.0	-5.0°	1.009	2032.6	.002225
a) 1 + 0		51 + .1		b) 1 - .1		51 + .1		c) 1 + .1	
2 + 0		52 + .7		2 - 0		52 + .8		2 + .2	
3 + 0		53 + .1		3 + 0		53 + .5		3 + .1	
4 + 0		54 + 2.7		4 + 0		54 + 2.0		4 + .1	
5 + 0		55 + 3.1		5 + 0		55 + 2.2		5 + .1	
6 + 0		56 + 1.8		6 + 0		56 + 1.6		6 + .1	
7 + 0		57 + 1.5		7 + 0		57 + .6		7 + .2	
8 + 0		58 + 1.5		8 + 0		58 + 5.4		8 + .4	
9 + 0		59 + 1.5		9 + 0		59 + 5.5		9 + 2.2	
10 + .2		60 + 1.5		10 + 0		60 + 2.4		10 + 4.3	
11 - .1		61 + 1.5		11 + 0		61 + 2.2		11 - 1.3	
12 - .1		62 + 1.6		12 + 0		62 + 2.5		12 - 3.6	
13 + 0		63 + 1.8		13 + 0		63 + 2.7		13 - 3.4	
14 + 0		64 + 2.0		14 + 0		64 + 1.0		14 - 2.6	
15 + 0		65 + 2.0		15 + 0		65 + 1.0		15 + .2	
16 + 0		66 + 2.0		16 + 0		66 + 3.0		16 + .2	
17 + 0		67 + 2.0		17 + 0		67 + 3.6		17 + 1.6	
18 + 0		68 + 1.9		18 + 0		68 + 3.7		18 + 5.5	
19 + 0		69 + 1.9		19 + 0		69 + 2.7		19 + 7.4	
20 + .1		70 + .3		20 + 0		70 + 1.4		20 + .1	
21 + 0		71 + .3		21 + 0		71 + 1.4		21 - 3.3	
22 + 0		72 + .4		22 + 0		72 + 1.4		22 - 5.0	
23 + .1		73 + .6		23 + 0		73 + 1.4		23 - 5.0	
24 + .1		74 + .7		24 + 1.3		74 + 1.3		24 - 4.3	
25 + .1		75 + .7		25 + .1		75 + 1.3		25 + .3	
26 + .1		76 + .7		26 + 0		76 + 1.3		26 - 2.0	
27 + .1		77 + .9		27 + .1		77 + 1.3		27 + .3	
28 + .1		78 + 1.4		28 + .1		78 + 1.5		28 + 2.5	
29 + .2		79 + 1.7		29 - .1		79 + 2.0		29 + 5.3	
30 + .2		80 + 1.8		30 + 0		80 + 2.1		30 + .1	
31 + .2		81 + 1.8		31 + 0		81 + 2.1			
32 + .2		82 + 1.8		32 + .1		82 + 2.1		Seq. 5	
33 + .2		83 + 1.8		33 + .1		83 + 2.1			
34 + .2		84 + .8		34 + .2		84 + 2.1			
35 + .2		85 + .9		35 + .2		85 + 2.1			
36 - .1		86 + 1.1		36 + .2		86 + 2.1			
37 + 0		87 + 1.3		37 + .2		87 + 5.0			
38 + .1		88 + 1.5		38 + .2		88 + 1.5			
39 + .1		89 + 1.5		39 + .4		89 + 1.5			
40 + .1		90 + 1.4		40 - .1		90 + 1.5			
41 + .1		91 + 1.3		41 + .1		91 + 1.5			
42 + .1		92 + .1		42 + .1		92 + 5.2			
43 + .1		93 + .8		43 + .1		93 + .8			
44 + .1		94 + .9		44 + .1		94 + .8			
45 + .2		95 + .9		45 + .1		95 + .8			
46 + 0		96 + .9		46 + .1		96 + .9			
47 + 0		97 + .9		47 + .1		97 + 1.0			
48 + .1		98 + .2		48 + .1		98 + 1.2			
49 + .1		99 + .2		49 + .1		99 + 1.6			
50 + .1		100 + .1		50 + .2		100 + .2			

1923 .05 0° .10 0 10.0 +5.0° 1.049 2035.4 .002167

a) 1 + 0	51 + .2	b) 1 + 0	51 + .1	c) 1 + .2
2 + 0	52 + 1.1	2 + .1	52 + 1.2	2 -11.0
3 + 0	53 + .1	3 + .1	53 + .2	3 -18.2
4 - 1.7	54 + 13.0	4 + .1	54 + 6.2	4 -14.9
5 - .8	55 + 9.4	5 + .1	55 + 6.7	5 - 6.8
6 + .1	56 + 8.1	6 + .1	56 + 3.9	6 - 7.7
7 + .2	57 + 8.2	7 + .1	57 + 5.4	7 + .8
8 + .2	58 + 9.0	8 + .2	58 + 7.5	8 -24.3
9 + .2	59 + 6.8	9 + .7	59 + 7.1	9 +37.5
10 + 3.6	60 + 7.3	10 + .8	60 + 7.2	10 42.0
11 + 0	61 + 8.1	11 + 6.5	61 + 7.5	11 - 4.8
12 + 0	62 + 7.6	12 + 0	62 + 8.6	12 - 8.8
13 + 0	63 + 7.3	13 + .1	63 + 9.0	13 -10.0
14 + 0	64 + 8.0	14 + 9.8	64 + 1.9	14 - 6.4
15 + 0	65 + 8.9	15 + .1	65 + 4.9	15 - 6.3
16 + 0	66 + 5.5	16 + 0	66 +13.5	16 - 2.3
17 + 0	67 + 6.7	17 + .2	67 +16.5	17 -10.5
18 + 0	68 + 8.7	18 + .2	68 +12.4	18 -27.5
19 + 0	69 + 8.9	19 + .2	69 + 7.0	19 +37.7
20 + 0	70 + 3.8	20 + .2	70 + 4.6	20 - .4
21 + 0	71 + 5.5	21 + .2	71 + 5.6	21 + 1.6
22 + 0	72 + 7.8	22 + .2	72 + 6.1	22 + .5
23 + 0	73 + 8.5	23 + .3	73 + 7.2	23 - .2
24 + 0	74 + 1.9	24 + .9	74 + .2	24 + .2
25 + 0	75 + 5.2	25 + 0	75 + .7	25 + 2.3
26 + .1	76 + 8.4	26 + .2	76 + .9	26 + 1.0
27 + .1	77 + 9.3	27 + .6	77 + 7.7	27 - 1.3
28 + .1	78 + 4.0	28 + .6	78 + 27.8	28 + 7.0
29 + .2	79 + 8.5	29 + .1	79 -22.3	29 +18.9
30 + .2	80 +10.2	30 + .1	80 + 9.1	30 + .1
31 + .2	81 +10.4	31 + 0	81 + 7.3	
32 + .8	82 +10.0	32 + 0	82 + 8.5	Seq. 5
33 + .8	83 + 22.4	33 + 0	83 + 9.1	
34 + .1	84 + 2.4	34 + 0	84 + 8.7	
35 + .1	85 + 6.3	35 + 0	85 + 8.3	
36 + .1	86 + 7.7	36 + 0	86 + 9.0	
37 + .1	87 + 9.2	37 + 0	87 + 5.5	
38 + .1	88 + .3	38 + 0	88 + 7.5	
39 + .7	89 +19.0	39 + 0	89 + 6.3	
40 + .1	90 + 7.8	40 + 0	90 + 7.6	
41 + .1	91 + 6.6	41 + 0	91 + 8.3	
42 + .1	92 + .1	42 + 0	92 + 8.5	
43 + .1	93 + 9.6	43 + 0	93 + 5.0	
44 + .1	94 + 8.7	44 + 0	94 + 7.0	
45 + .1	95 + 8.9	45 + 0	95 + 7.5	
46 + .1	96 + 9.0	46 + 0	96 + 8.1	
47 + .1	97 + 6.0	47 + 0	97 + 8.2	
48 + .1	98 + .1	48 + 0	98 + 8.3	
49 + .1	99 + .1	49 + 0	99 + 9.0	
50 + .1	100 + .1	50 + 0	100 + .1	

1924 .05 0° .10 0 10.0 +2.5° 1.049 2035.4 .002167

a) 1 + 0	51 + .1	b) 1 - .1	51 + .1	c) 1 + .1
2 - .1	52 + 1.5	2 + 0	52 + 1.0	2 - 6.0
3 - .1	53 + .3	3 + 0	53 + .1	3 - 13.7
4 - 1.4	54 + 13.3	4 + 0	54 + 7.6	4 - 11.5
5 + 0	55 + 11.8	5 + .1	55 + 8.4	5 - 3.8
6 + 0	56 + 10.0	6 + .2	56 + 5.4	6 - 9.2
7 + 0	57 + 9.7	7 + .2	57 + 7.3	7 + 2.0
8 + 0	58 + 10.5	8 + .2	58 + 9.7	8 + 19.9
9 + 0	59 + 9.8	9 + .5	59 + 9.4	9 + 34.1
10 - 1.6	60 + 9.8	10 + .6	60 + 9.4	10 + 41.0
11 - .1	61 + 9.9	11 + 8.3	61 + 9.4	11 - 1.6
12 - .1	62 + 10.0	12 - .1	62 + 10.2	12 - 6.3
13 - .1	63 + 10.0	13 - .2	63 + 10.4	13 - 7.6
14 - .1	64 + 10.1	14 + 8.1	64 + 1.0	14 - 4.8
15 - .1	65 + 10.2	15 - .1	65 + 6.2	15 + 7.9
16 - .1	66 + 8.7	16 + 0	66 + 12.8	16 - 1.1
17 - .1	67 + 9.2	17 - .1	67 + 13.7	17 + 11.3
18 - .1	68 + 10.2	18 - .2	68 + 11.2	18 + 29.5
19 - .1	69 + 10.4	19 - .3	69 + 8.3	19 + 40.9
20 - .1	71 + 6.6	20 + 0	70 + 7.5	20 + .2
21 - .1	71 + 8.0	21 + 0	71 + 8.2	21 - 2.5
22 - .1	72 + 9.2	22 + 0	72 + 8.5	22 + .4
23 - .1	73 + 9.8	23 - .1	73 + 9.1	23 + .1
24 + .1	74 + 6.3	24 + 1.0	74 + .4	24 + .2
25 - .1	75 + 8.2	25 - .2	75 + .5	25 + 5.0
26 - .1	76 + 9.6	26 + .4	76 + 5.0	26 + .5
27 - .1	77 + 10.4	27 + .4	77 + 21.2	27 + 1.8
28 + .1	78 + 7.6	28 + .4	78 + 20.0	28 + 11.1
29 + .1	79 + 9.8	29 + .4	79 + 13.5	29 + 26.2
30 - .1	80 + 11.0	30 + .1	80 + 8.8	30 + .1
31 + 0	81 + 11.4	31 + .1	81 + 9.6	
32 + 0	82 + 11.4	32 - .1	82 + 10.3	
33 + 0	83 + 20.0	33 - .1	83 + 10.5	
34 + 0	84 + 3.3	34 + .1	84 + 9.9	
35 + 0	85 + 8.7	35 - .1	85 + 9.9	
36 + 0	86 + 9.4	36 + .1	86 + 10.0	
37 + 0	87 + 10.5	37 + .2	87 + 8.2	
38 + 0	88 + .8	38 + .2	88 + 9.2	
39 - .6	89 + 22.9	39 + .2	89 + 9.0	
40 + 0	90 + 7.7	40 + .2	90 + 9.1	
41 + 0	91 + 8.6	41 - .1	91 + 9.4	
42 + 0	92 + .3	42 - .1	92 + 10.8	
43 + 0	93 + 10.0	43 - .1	93 + 7.4	
44 + 0	94 + 10.1	44 - .1	94 + 8.2	
45 + 0	95 + 10.1	45 - .1	95 + 8.7	
46 + 0	96 + 10.1	46 - .1	96 + 9.1	
47 + 0	97 + 6.2	47 - .1	97 + 9.3	
48 + 0	98 + .1	48 - .1	98 + 9.5	
49 + 0	99 + .1	49 - .1	99 + 9.8	
50 + 0	100 + .1	50 - .1	100 + .1	

Seq. 5

1925	.05	0°	.10	0	10.0	0°	1.049	2035.4	.002167
a) 1 -	.1	51 +	.1	b) 1 +	.1	51 -	.1	c) 1 -	.1
2 -	.1	52 +	1.1	2 +	0	52 -	1.0	2 -	.1
3 -	.9	53 -	.2	3 +	.3	53 -	.1	3 -	6.9
4 -	.9	54 +	12.8	4 +	.2	54 -	5.0	4 -	6.1
5 -	.9	55 +	12.3	5 +	.1	55 -	10.0	5 -	.2
6 +	0	56 +	11.4	6 +	.1	56 -	8.5	6 -	9.0
7 +	0	57 +	10.4	7 +	.1	57 -	13.1	7 -	1.7
8 +	0	58 +	10.9	8 +	.1	58 -	12.3	8 -	13.4
9 +	0	59 +	10.7	9 +	.1	59 -	10.0	9 -	30.4
10 +	.8	60 +	11.1	10 +	.1	60 -	10.0	10 -	39.6
11 +	0	61 +	11.0	11 +	4.8	61 -	10.2	11 -	.4
12 +	0	62 +	11.0	12 +	0	62 -	11.3	12 -	5.2
13 -	.1	63 +	11.4	13 +	.1	63 -	11.9	13 -	6.8
14 -	.1	64 +	11.7	14 +	4.9	64 -	3.1	14 -	3.2
15 -	.1	65 +	11.8	15 +	0	65 -	8.3	15 -	8.8
16 -	.1	66 +	10.8	16 +	.1	66 -	15.2	16 -	.4
17 -	.1	67 +	10.8	17 +	.1	67 -	14.6	17 -	12.2
18 -	.7	68 +	11.4	18 +	.1	68 -	11.3	18 -	31.1
19 +	0	69 +	11.6	19 +	.2	69 -	9.9	19 -	43.0
20 +	0	70 -	9.2	20 +	.2	70 -	9.6	20 -	.1
21 +	0	71 -	9.9	21 +	.2	71 -	9.6	21 -	1.5
22 +	0	72 +	10.5	22 +	.2	72 -	9.7	22 -	7.1
23 +	0	73 +	10.8	23 +	.2	73 -	10.1	23 -	6.7
24 +	0	74 +	9.6	24 +	4.6	74 -	2.0	24 -	1.8
25 -	.1	75 -	9.7	25 +	0	75 -	6.3	25 -	8.5
26 -	.1	76 +	10.3	26 +	0	76 -	13.2	26 -	.2
27 -	.1	77 +	10.3	27 +	0	77 -	14.0	27 -	8.6
28 +	0	78 +	10.6	28 +	.2	78 -	11.1	28 -	21.5
29 +	.1	79 +	10.9	29 +	.2	79 -	10.9	29 -	33.4
30 +	.1	80 +	11.4	30 +	.2	80 -	10.8	30 -	.1
31 +	0	81 +	11.5	31 +	.2	81 -	10.9		
32 -	.6	82 +	11.6	32 +	.2	82 -	11.0	Seq. 5	
33 +	0	83 +	14.1	33 +	.2	83 -	11.3		
34 +	0	84 +	4.0	34 +	.2	84 -	11.4		
35 +	0	85 +	10.5	35 +	.2	85 -	11.4		
36 +	0	86 +	10.9	36 +	.1	86 -	11.0		
37 +	0	87 +	11.3	37 +	0	87 -	14.5		
38 +	0	88 +	3.7	38 +	.2	88 -	10.7		
39 -	.8	89 +	14.2	39 +	.2	89 -	9.9		
40 +	0	90 +	9.1	40 +	0	90 -	10.5		
41 +	0	91 +	9.9	41 +	0	91 -	10.7		
42 +	0	92 +	.2	42 +	0	92 -	14.4		
43 +	0	93 +	10.7	43 +	0	93 -	9.3		
44 +	0	94 +	10.9	44 +	0	94 -	9.8		
45 -	.1	95 +	10.8	45 +	0	95 -	10.1		
46 -	.1	96 +	10.8	46 +	0	96 -	10.4		
47 -	.1	97 +	6.8	47 +	0	97 -	10.6		
48 -	.1	98 +	.1	48 +	0	98 -	10.7		
49 -	.1	99 +	.1	49 +	0	99 -	11.0		
50 -	.1	100 +	.1	50 +	0	100 -	.2		

1926 .05 00 .10 0 10.0 -2.5° 1.048 9035.4 .002167

a) 1 + 0	51 .1	b) 1 + 0	51 .2	c) 1 .1
2 + 0	52 1.0	2 0	52 1.4	2 4.1
3 + 0	53 .1	3 0	53 .2	3 .5
4 - 1.6	54 9.3	4 0	54 2.6	4 .2
5 + 0	55 11.5	5 0	55 3.0	5 1.7
6 + 0	56 11.8	6 0	56 3.1	6 6.2
7 + 0	57 10.5	7 0	57 15.5	7 1.6
8 + 0	58 8.1	8 0	58 23.8	8 5.1
9 + 0	59 9.0	9 0	59 14.4	9 18.9
10 .3	60 10.5	10 0	60 9.4	10 33.8
11 .8	61 10.8	11 0	61 9.5	11 3.0
12 .8	62 7.9	12 0	62 10.7	12 8.8
13 0	63 9.7	13 0	63 11.6	13 10.2
14 0	64 10.8	14 1.1	64 2.6	14 5.4
15 0	65 11.0	15 .1	65 8.1	15 8.1
16 0	66 8.2	16 0	66 17.1	16 1.4
17 + 0	67 8.7	17 0	67 17.0	17 15.0
18 .4	68 10.0	18 .1	68 13.1	18 34.4
19 .4	69 10.3	19 .1	69 9.7	19 44.9
20 .5	70 8.8	20 .1	70 7.7	20 .3
21 + .1	71 8.8	21 .1	71 8.0	21 7.2
22 .1	72 8.8	22 .1	72 8.3	22 13.5
23 + .1	73 9.1	23 .1	73 8.9	23 12.0
24 .1	74 9.3	24 0	74 4.4	24 4.8
25 .1	75 8.8	25 .1	75 5.9	25 8.2
26 .1	76 8.9	26 .1	76 7.4	26 .4
27 .1	77 10.0	27 .1	77 9.3	27 15.1
28 .1	78 11.1	28 .1	78 10.1	28 25.4
29 .1	79 10.9	29 .1	79 10.5	29 35.5
30 .1	80 10.4	30 .1	80 10.7	30 .2
31 .1	81 10.5	31 .1	81 10.7	
32 .3	82 11.0	32 .1	82 10.7	
33 .3	83 10.5	33 .1	83 10.8	
34 .4	84 3.1	34 .1	84 11.0	
35 .4	85 9.3	35 .1	85 11.2	
36 0	86 9.4	36 .1	86 11.3	
37 0	87 10.4	37 .1	87 25.9	
38 0	88 7.7	38 .2	88 11.6	
39 + 0	89 8.6	39 .5	89 9.3	
40 + 0	90 8.7	40 0	90 10.4	
41 + 0	91 9.0	41 0	91 10.8	
42 + 0	92 .1	42 0	92 22.7	
43 0	93 9.6	43 0	93 8.3	
44 0	94 9.6	44 0	94 9.1	
45 0	95 9.6	45 0	95 10.1	
46 0	96 9.6	46 0	96 10.5	
47 + 0	97 6.0	47 0	97 10.5	
48 + 0	98 .1	48 0	98 10.5	
49 + 0	99 .1	49 0	99 10.7	
50 + 0	100 .1	50 0	100 .1	

Seq. 5

1927 .05 0° .10 0 10.0 -5.0° 1.048 2035.4 .002167

a) 1 + 0	51 + .2	b) 1 + 0	51 + .1	c) 1 + .2
2 + 0	52 + 1.5	2 + 0	52 + 1.7	2 + 3.1
3 + 0	53 + .2	3 + 0	53 + .3	3 + 1.0
4 - 1.9	54 + 7.1	4 + 0	54 + 2.5	4 + 1.2
5 + .1	55 + 11.3	5 + 0	55 + 1.8	5 + 1.3
6 + .1	56 + 11.9	6 + 0	56 + .5	6 + 4.4
7 + .1	57 + 10.9	7 + 0	57 + 1.1	7 + 2.3
8 + .1	58 + 5.7	8 + 0	58 + 27.1	8 + 3.9
9 + .1	59 + 8.6	9 + 0	59 + 26.6	9 + 13.7
10 + .4	60 + 10.9	10 + 0	60 + 14.0	10 + 26.0
11 - 1.2	61 + 11.2	11 + 0	61 + 6.8	11 - 8.5
12 + .1	62 + 5.2	12 + 0	62 + 9.5	12 - 13.4
13 + .1	63 + 8.4	13 + 0	63 + 10.4	13 - 14.4
14 + .1	64 + 10.9	14 + .2	64 + 2.6	14 - 7.6
15 + .1	65 + 11.0	15 + 0	65 + 6.6	15 + 5.1
16 + .1	66 + 6.5	16 + 0	66 + 16.4	16 - 2.6
17 + .1	67 + 7.0	17 + 0	67 + 17.9	17 + 13.7
18 - .3	68 + 9.6	18 + 0	68 + 12.8	18 + 33.2
19 - .3	69 + 10.1	19 + 0	69 + 8.0	19 + 43.7
20 + .1	70 + 6.7	20 + 0	70 + 5.3	20 + .1
21 + .1	71 + 7.1	21 + .1	71 + 6.2	21 - 13.1
22 + .1	72 + 8.4	22 + .1	72 + 6.5	22 - 20.0
23 + .1	73 + 9.6	23 + .1	73 + 7.5	23 - 17.9
24 + .1	74 + 9.7	24 + .2	74 + 4.1	24 - 7.9
25 + .1	75 + 7.4	25 + .3	75 + 5.0	25 + 7.8
26 + .1	76 + 8.3	26 + .3	76 + 5.8	26 + .1
27 + .1	77 + 9.4	27 + .3	77 + 7.3	27 + 20.9
28 + .1	78 + 12.0	28 + .3	78 + 8.0	28 + 28.5
29 + .1	79 + 9.5	29 + .3	79 + 8.7	29 + 37.6
30 + .1	80 + 9.0	30 + .5	80 + 8.9	30 + .1
31 + .1	81 + 9.8	31 + 0	81 + 8.9	
32 + .1	82 + 10.7	32 + 0	82 + 9.0	Seq. 5
33 + .1	83 + 8.8	33 + 0	83 + 9.1	
34 + .1	84 + 2.7	34 + 0	84 + 10.3	
35 + .1	85 + 7.8	35 + 0	85 + 10.8	
36 + .1	86 + 8.8	36 + 0	86 + 10.7	
37 + .1	87 + 10.2	37 + .1	87 + 29.2	
38 + .1	88 + 8.4	38 + 0	88 + 9.1	
39 + .1	89 + 6.4	39 + 1.4	89 + 9.0	
40 + .1	90 + 7.0	40 - .1	90 + 10.1	
41 + .1	91 + 7.8	41 - .1	91 + 10.7	
42 + .1	92 + .1	42 - .1	92 + 30.1	
43 + .1	93 + 9.7	43 - .1	93 + 7.1	
44 + .1	94 + 8.7	44 - .1	94 + 8.0	
45 + .1	95 + 8.9	45 - .1	95 + 9.5	
46 + .1	96 + 9.6	46 - .1	96 + 10.3	
47 + .1	97 + 6.5	47 - .1	97 + 9.0	
48 + .1	98 + .1	48 - .1	98 + 9.6	
49 + .1	99 + .1	49 - .1	99 + 10.1	
50 + .1	100 + .1	50 - .1	100 + .1	

1952	.05	0°	.05	0	10.0	+2.5°	1.010	2046.0	.002264
a) 1 -	.1	51 +	.2	b) 1 +	0	51 +	.2	c) 1 +	.1
2 -	.1	52 +	1.4	2 +	.1	52 +	1.0	2 +	1.9
3 -	.1	53 +	.3	3 +	.1	53 +	.1	3 +	2.0
4 -	.1	54 +	7.6	4 +	.1	54 +	3.4	4 +	2.0
5 -	.1	55 +	6.5	5 +	.1	55 +	4.7	5 +	2.0
6 -	.1	56 +	4.9	6 +	.1	56 +	2.4	6 +	3.5
7 -	.1	57 +	4.0	7 +	0	57 +	3.2	7 +	3.4
8 -	.1	58 +	5.5	8 +	0	58 +	5.5	8 +	4.4
9 -	.1	59 +	4.9	9 +	.1	59 +	4.8	9 +	9.5
10 +	12.4	60 +	4.9	10 +	.1	60 +	4.4	10 +	12.1
11 -	.1	61 +	4.9	11 +	1.7	61 +	4.5	11 +	2.4
12 -	.1	62 +	5.4	12 +	0	62 +	5.6	12 +	1.8
13 -	.1	63 +	5.6	13 +	0	63 +	5.8	13 +	1.8
14 -	.1	64 +	5.5	14 +	1.0	64 +	.7	14 +	1.9
15 -	.1	65 +	5.0	15 +	0	65 +	.7	15 +	3.8
16 -	.1	66 +	4.9	16 +	0	66 +	4.2	16 +	3.9
17 -	.1	67 +	4.9	17 +	.1	67 +	5.4	17 +	5.8
18 -	.1	68 +	5.0	18 +	.1	68 +	5.4	18 +	.7
19 -	.1	69 +	4.9	19 +	.2	69 +	4.2	19 +	11.0
20 -	.1	70 +	3.2	20 +	.2	70 +	3.8	20 +	.1
21 -	.1	71 +	3.9	21 +	.2	71 +	3.9	21 +	1.0
22 -	.1	72 +	4.1	22 +	.2	72 +	4.0	22 +	1.1
23 -	.1	73 +	4.1	23 +	.2	73 +	4.1	23 +	1.1
24 -	.1	74 +	4.1	24 +	.2	74 +	.1	24 +	2.0
25 -	.1	75 +	4.1	25 +	.2	75 +	.8	25 +	3.2
26 -	.1	76 +	4.2	26 +	.3	76 +	.8	26 +	1.3
27 -	.1	77 +	4.5	27 +	.1	77 +	5.6	27 +	2.3
28 -	.1	78 +	4.5	28 +	.1	78 +	6.4	28 +	5.7
29 -	.1	79 +	5.0	29 +	.1	79 +	5.0	29 +	7.2
30 -	.1	80 +	5.1	30 +	.2	80 +	4.8	30 +	.1
31 -	.1	81 +	5.1	31 +	.2	81 +	4.9		
32 -	.8	82 +	5.1	32 +	0	82 +	5.1	Seq. 5	
33 +	0	83 +	7.2	33 +	.1	83 +	5.1		
34 +	0	84 +	1.8	34 +	.2	84 +	4.7		
35 +	0	85 +	4.5	35 +	.2	85 +	4.7		
36 +	0	86 +	4.6	36 +	.1	86 +	4.7		
37 +	0	87 +	4.9	37 +	.2	87 +	4.7		
38 -	.1	88 +	.1	38 +	.1	88 +	4.7		
39 -	.8	89 +	5.9	39 +	.2	89 +	4.5		
40 -	.1	90 +	4.3	40 +	.2	90 +	4.3		
41 -	.1	91 +	4.4	41 +	.2	91 +	4.3		
42 -	.1	92 +	.2	42 +	.2	92 +	4.7		
43 -	.1	93 +	4.4	43 +	.2	93 +	3.9		
44 -	.1	94 +	4.1	44 +	.2	94 +	3.9		
45 -	.1	95 +	4.0	45 +	.2	95 +	3.9		
46 -	.1	96 +	3.9	46 +	.2	96 +	3.9		
47 -	.1	97 +	2.8	47 +	.2	97 +	3.9		
48 -	.1	98 +	.1	48 +	.2	98 +	4.0		
49 -	.1	99 +	.1	49 +	.2	99 +	4.4		
50 -	.1	100 +	.1	50 +	.2	100 +	.1		

1953	.05	0°	.05	0	10.0	0°	1.011	2046.0	.002264
a) 1 + 0		51 + .1		b) 1 + 0		51 + .1		c) 1 + .1	
2 + 0		52 + 1.0		2 + 0		52 + 1.1		2 + 1.9	
3 + 0		53 + .2		3 + 0		53 + .2		3 + .4	
4 - 1.1		54 + 7.3		4 + 0		54 + 2.1		4 + .6	
5 + 0		55 + 6.9		5 + 0		55 + 2.5		5 + 1.2	
6 + 0		56 + 5.0		6 + 0		56 + 2.2		6 + 3.2	
7 + 0		57 + 4.6		7 + 0		57 + 3.9		7 + 2.9	
8 + 0		58 + 5.5		8 + 0		58 + 5.4		8 + 4.2	
9 + 0		59 + 5.0		9 + .1		59 + 5.1		9 + 8.4	
10 + 4.7		60 + 5.0		10 + .1		60 + 4.9		10 + 10.3	
11 - .9		61 + 5.2		11 + .1		61 + 4.8		11 + 2.4	
12 + 0		62 + 5.4		12 + .1		62 + 5.1		12 + .6	
13 + 0		63 + 5.6		13 + .1		63 + 5.3		13 + .8	
14 + 0		64 + 5.7		14 + .1		64 + .2		14 + 1.2	
15 + 0		65 + 5.3		15 + .1		65 + .4		15 + 3.2	
16 + 0		66 + 5.2		16 + 0		66 + 4.3		16 + 2.5	
17 + 0		67 + 5.2		17 + .1		67 + 5.1		17 + 3.7	
18 - 1.2		68 + 5.2		18 + .1		68 + 5.0		18 + 8.9	
19 + 0		69 + 4.9		19 + .2		69 + 4.4		19 + 11.7	
20 + 0		70 + 3.5		20 + .2		70 + 3.8		20 + .1	
21 + 0		71 + 4.0		21 + .2		71 + 3.9		21 + .6	
22 + 0		72 + 4.1		22 + .2		72 + 4.0		22 + .1	
23 + 0		73 + 4.1		23 + .2		73 + 4.1		23 + .1	
24 + 0		74 + 4.2		24 + .2		74 + .1		24 + .4	
25 - .7		75 + 4.2		25 + .2		75 + .1		25 + 2.3	
26 + 0		76 + 4.1		26 + .3		76 + 3.0		26 + 1.2	
27 + 0		77 + 4.4		27 + .3		77 + 4.8		27 + 2.1	
28 + 0		78 + 4.6		28 + .3		78 + 5.0		28 + 4.5	
29 + 0		79 + 4.8		29 + .3		79 + 5.0		29 + 7.0	
30 + 0		80 + 5.0		30 + .3		80 + 5.0		30 + .1	
31 + 0		81 + 5.0		31 + .3		81 + 5.0			
32 - .9		82 + 5.0		32 + .3		82 + 5.1		Seq. 5	
33 + 0		83 + 5.1		33 + .3		83 + 5.0			
34 + 0		84 + 1.4		34 + .3		84 + 5.1			
35 + 0		85 + 4.7		35 + .3		85 + 5.1			
36 + 0		86 + 4.6		36 + .3		86 + 5.1			
37 + 0		87 + 4.8		37 + .3		87 + 5.0			
38 + 0		88 + .1		38 + .3		88 + 5.2			
39 - 1.2		89 + 4.9		39 + .3		89 + 4.8			
40 + 0		90 + 3.8		40 + .3		90 + 4.6			
41 + 0		91 + 4.0		41 + .1		91 + 4.4			
42 + 0		92 + .1		42 + .1		92 + 5.0			
43 + 0		93 + 4.0		43 + .1		93 + 4.6			
44 + 0		94 + 4.0		44 + .1		94 + 4.6			
45 + 0		95 + 3.8		45 + .1		95 + 4.0			
46 + 0		96 + 3.8		46 + .1		96 + 4.0			
47 + 0		97 + 3.2		47 + .1		97 + 4.0			
48 + 0		98 + .1		48 + .1		98 + 4.2			
49 + 0		99 + .1		49 + .1		99 + 4.4			
50 + 0		100 + .1		50 + .1		100 + .1			

1954	.05	0°	.05	0	10.0	-2.5°	1.011	2046.0	.002264
a) 1 + 0		51	.2	b) 1 + 0		51	.1	c) 1	.1
2 + 0		52	1.0	2 + 0		52	1.1	2	2.6
3 + 0		53	.2	3 + 0		53	.2	3	1.9
4 - 2.1		54	7.1	4 + 0		54	2.2	4	1.9
5 + 0		55	7.0	5 + 0		55	1.5	5	2.0
6 + 0		56	5.7	6 + 0		56	.1	6	3.1
7 + 0		57	4.1	7 + 0		57	1.1	7	3.6
8 + 0		58	5.2	8 + 0		58	7.7	8	4.3
9 + 0		59	5.2	9 + 0		59	4.9	9	8.8
10 + 1.4		60	5.2	10 + 0		60	4.9	10	10.1
11 - 1.4		61	5.2	11 - .8		61	4.9	11	2.5
12 + 0		62	5.3	12 + .1		62	5.4	12	2.0
13 + 0		63	5.7	13 + .1		63	5.8	13	2.0
14 + 0		64	5.8	14 + .1		64	.5	14	2.0
15 + 0		65	5.4	15 + .1		65	1.0	15	3.8
16 + 0		66	5.2	16 + .1		66	5.5	16	3.8
17 + 0		67	5.2	17 + .1		67	6.3	17	5.6
18 - 2.0		68	5.2	18 + .1		68	5.7	18	9.8
19 + 0		69	5.0	19 + .1		69	3.8	19	11.0
20 + 0		70	4.3	20 + .1		70	3.7	20	.1
21 + 0		71	4.3	21 + .1		71	3.8	21	.9
22 + 0		72	4.3	22 + .1		72	3.9	22	.2
23 + 0		73	4.3	23 + .1		73	4.0	23	.8
24 + 0		74	4.3	24 + .3		74	.3	24	.8
25 - .7		75	4.3	25 + .1		75	1.6	25	3.1
26 + .2		76	4.3	26 + .1		76	3.0	26	1.2
27 + .1		77	4.5	27 + .1		77	4.1	27	2.1
28 + .1		78	4.9	28 + .1		78	4.8	28	5.2
29 + .1		79	5.1	29 + .1		79	5.0	29	9.3
30 + .1		80	5.3	30 + .1		80	5.2	30	.1
31 + .1		81	5.3	31 + .1		81	5.2	Seq. 5	
32 - .7		82	5.3	32 + .1		82	5.2		
33 + .1		83	5.3	33 + .1		83	5.2		
34 + .1		84	1.7	34 + .1		84	5.2		
35 + .1		85	4.4	35 + .1		85	4.6		
36 + .1		86	4.6	36 + .1		86	5.2		
37 + .1		87	4.8	37 + .1		87	7.4		
38 + .1		88	2.1	38 + .1		88	4.8		
39 - .6		89	4.0	39 + .1		89	4.9		
40 + .1		90	4.2	40 + .1		90	4.8		
41 + 0		91	4.3	41 + .1		91	4.7		
42 + 0		92	.2	42 + .1		92	5.8		
43 + 0		93	4.0	43 + .1		93	4.0		
44 + 0		94	4.1	44 + .1		94	4.1		
45 + 0		95	4.1	45 + .1		95	4.0		
46 + 0		96	4.1	46 + .1		96	4.0		
47 + 0		97	3.2	47 + .1		97	4.0		
48 + 0		98	.1	48 + .1		98	4.2		
49 + 0		99	.1	49 + .1		99	4.3		
50 + 0		100	.1	50 + .1		100	.1		

1964 .05 0° .05 0 10.0 +2.5° 1.049 2042.4 .002199

a) 1 - .1	51 + .2	b) 1 + 0	51 + .2	c) 1 + .1
2 + .1	52 - .9	2 + 0	52 + 1.0	2 + 10.3
3 + .1	53 + .1	3 + 0	53 + .3	3 + 5.0
4 - 3.4	54 + 23.4	4 + 0	54 + 7.0	4 + 5.7
5 - .9	55 + 22.2	5 + 0	55 + 13.8	5 + 10.2
6 + 0	56 - 20.4	6 + 0	56 + 10.5	6 + 21.1
7 + 0	57 + 20.6	7 + 0	57 + 17.7	7 - 11.9
8 + 0	58 + 21.3	8 + 0	58 + 21.0	8 + 23.9
9 + 0	59 + 20.6	9 + 0	59 + 21.2	9 + 40.7
10 + 18.4	60 + 20.6	10 + 0	60 + 21.0	10 + 50.6
11 - 3.3	61 + 20.0	11 - 7.5	61 + 21.0	11 + 9.8
12 - .8	62 + 20.6	12 - .1	62 + 21.9	12 + 4.9
13 + 0	63 + 20.7	13 - .1	63 + 21.9	13 + 3.6
14 + 0	64 + 20.9	14 + 3.9	64 - .2	14 + 7.1
15 + 0	65 - 21.0	15 - .1	65 - 2.7	15 - 20.4
16 + 0	66 + 19.5	16 - .1	66 + 13.2	16 - 13.0
17 + 0	67 + 20.2	17 - .1	67 + 23.9	17 - 27.3
18 - 2.8	68 - 20.7	18 - .1	68 + 21.4	18 + 42.3
19 - .4	69 - 20.9	19 - .1	69 + 19.5	19 - 49.3
20 + 0	70 + 17.6	20 - .1	70 - 19.5	20 - .1
21 + 0	71 + 19.5	21 - .1	71 - 19.7	21 - 12.9
22 - 0	72 - 20.2	22 - .1	72 - 19.9	22 - 9.7
23 - 0	73 - 20.4	23 - .1	73 - 20.4	23 - 9.4
24 + 0	74 - 18.3	24 - 1.3	74 - .5	24 - 11.3
25 - 3.6	75 + 20.1	25 - 0	75 - 2.8	25 - 17.7
26 - .5	76 + 20.8	26 + 0	76 - 3.2	26 - 12.1
27 - 0	77 + 21.1	27 - .1	77 + 26.1	27 + 14.0
28 + 0	78 + 19.3	28 + .1	78 + 28.2	28 - 26.9
29 + .2	79 + 21.9	29 + .1	79 - 22.3	29 + 37.2
30 + .3	80 + 22.0	30 + .1	80 + 21.0	30 - .1
31 - .3	81 + 21.2	31 + 0	81 + 21.6	
32 - 4.7	82 + 21.4	32 + 0	82 + 21.9	Seq. 5
33 - .7	83 - 32.0	33 - 0	83 + 22.0	
34 + .1	84 - 8.3	34 - 0	84 - 20.5	
35 + 2	85 + 20.9	35 + 0	85 + 20.9	
36 + .2	86 + 20.9	36 + 0	86 + 21.0	
37 + .3	87 + 21.0	37 + 0	87 + 20.0	
38 + .3	88 - .9	38 - 0	88 - 20.7	
39 - 6.0	89 + 27.8	39 + 0	89 - 20.7	
40 + 0	90 + 19.7	40 + 0	90 - 20.7	
41 + 0	91 + 20.6	41 - .1	91 - 20.7	
42 + 0	92 - .8	42 - .1	92 - 21.3	
43 + 0	93 - 21.4	43 - .1	93 - 19.0	
44 + 0	94 + 20.4	44 - .1	94 + 19.6	
45 + 0	95 - 20.6	45 - .1	95 + 19.8	
46 - .1	96 + 20.4	46 - .1	96 + 20.1	
47 + 0	97 + 14.8	47 - .1	97 + 20.0	
48 + .1	98 - .1	48 - .1	98 - 20.6	
49 + .1	99 + .1	49 - .1	99 + 20.9	
50 - .1	100 + .2	50 - .1	100 + .2	

1965 .05 0° .05 0 10.0 0° 1.049 2042.4 .002199

a) 1 + 0	51 - .1	b) 1 - .1	51 : .1	c) 1 - .1
2 - 0	52 - .9	2 + 0	52 : .6	2 - 11.0
3 - .1	53 - .2	3 0	53 : .1	3 7.4
4 - 5.2	54 - 24.3	4 0	54 - 1.1	4 7.6
5 - .5	55 - 24.4	5 - .1	55 - 4.4	5 11.5
6 0	56 - 23.0	6 - .1	56 - 6.0	6 - 20.2
7 - 0	57 - 22.7	7 + 0	57 - 22.2	7 - 13.9
8 - 0	58 - 22.9	8 - 0	58 - 22.9	8 - 24.2
9 - 0	59 - 23.0	9 - .1	59 - 22.6	9 - 38.6
10 - 5.4	60 - 23.2	10 - .1	60 - 22.6	10 - 46.5
11 - 4.9	61 - 23.2	11 - .1	61 - 22.6	11 - 12.1
12 - .7	62 - 23.2	12 - .1	62 - 23.0	12 - 8.4
13 - 0	63 - 23.6	13 - .1	63 - 23.4	13 - 6.5
14 0	64 - 23.8	14 - .1	64 - .5	14 - 9.6
15 - 0	65 - 23.8	15 - .1	65 - 3.2	15 - 18.8
16 - 0	66 - 22.7	16 - .1	66 - 20.0	16 - 12.7
17 - 0	67 - 22.7	17 - .1	67 - 24.3	17 - 23.2
18 - 5.4	68 - 23.1	18 - .1	68 - 22.0	18 - 39.9
19 - .9	69 - 23.3	19 - 0	69 - 21.7	19 - 50.1
20 + 0	70 - 20.6	20 - 0	70 - 21.7	20 - .1
21 + 0	71 - 21.5	21 - 0	71 - 21.7	21 - 11.7
22 - 0	72 - 22.0	22 - .1	72 - 21.7	22 - 7.4
23 + 0	73 - 22.3	23 - .1	73 - 21.9	23 - 7.3
24 + 0	74 - 21.1	24 - .1	74 - .2	24 - 10.4
25 - 4.3	75 - 21.5	25 - .1	75 - .5	25 - 19.3
26 - 1.0	76 - 22.0	26 - .1	76 - 15.5	26 - 12.2
27 - .4	77 - 22.7	27 - .1	77 - 24.3	27 - 18.0
28 - .4	78 - 22.9	28 - .1	78 - 22.0	28 - 30.0
29 - .4	79 - 22.8	29 - .1	79 - 22.0	29 - 39.7
30 + 0	80 - 3.1	30 - .1	80 - 22.1	30 - .2
31 + 0	81 - 23.0	31 - .1	81 - 22.4	Sep. 5
32 - 5.1	82 - 3.4	32 - .2	82 - 22.8	
33 - .7	83 - 24.6	33 - .2	83 - 22.9	
34 - .1	84 - 9.6	34 - .2	84 - 23.0	
35 + .1	85 - 22.5	35 + .2	85 - 23.0	
36 + .1	86 - 22.6	36 + .2	86 - 23.0	
37 - .1	87 - 23.0	37 - .2	87 - 24.8	
38 - .1	88 - 1	38 - .2	88 - 23.8	
39 - 4.5	89 - 24.8	39 - .2	89 - 21.8	
40 + 0	90 - 21.2	40 - .2	90 - 22.2	
41 + 0	91 - 21.9	41 + 0	91 - 22.0	
42 + 0	92 - 1.1	42 + 0	92 - 24.8	
43 + 0	93 - 22.7	43 + 0	93 - 21.4	
44 + 0	94 - 22.7	44 + 0	94 - 21.8	
45 + 0	95 - 22.6	45 + 0	95 - 22.0	
46 + 0	96 - 22.6	46 + 0	96 - 22.1	
47 + 0	97 - 16.3	47 + 0	97 - 22.3	
48 + 0	98 - .1	48 + 0	98 - 22.4	
49 + 0	99 - .2	49 + 0	99 - 22.5	
50 + 0	100 - .1	50 + 0	100 - .1	

1966 .05 0° .05 0 10.0 -2.5° 1.048 2042.4 .002199

a) 1 + 0	51 + .1	b) 1 - .1	51 + .1	c) 1 + .1
2 + 0	52 + 1.0	2 - .1	52 + 1.1	2 + 13.0
3 + 0	53 + .2	3 - .1	53 + .1	3 + 9.9
4 - 6.6	54 + 21.9	4 - .1	54 + .8	4 + 10.1
5 + .1	55 + 23.0	5 - .1	55 - .7	5 + 11.0
6 + .1	56 + 22.6	6 - .1	56 - 2.5	6 + 18.7
7 + .1	57 + 20.4	7 - .1	57 + 5.7	7 + 13.7
8 + .1	58 + 20.2	8 - .1	58 + 30.2	8 + 20.9
9 + .1	59 + 21.0	9 - .1	59 + 22.6	9 + 34.5
10 + 1.4	60 + 21.6	10 - .1	60 + 20.8	10 + 44.2
11 - 6.3	61 + 21.6	11 - 3.1	61 + 21.3	11 + 10.1
12 + .1	62 + 20.6	12 - .1	62 + 22.4	12 + 4.6
13 + .1	63 + 21.9	13 - .1	63 + 22.8	13 + 3.3
14 + .1	64 + 22.1	14 - 3.0	64 + 1.0	14 + 8.0
15 + .1	65 + 22.1	15 + 0	65 + 3.1	15 + 20.1
16 + .1	66 + 18.9	16 + 0	66 + 22.0	16 + 14.0
17 + .1	67 + 20.0	17 + 0	67 + 28.5	17 + 29.7
18 - 5.9	68 + 20.8	18 + 0	68 + 22.5	18 + 44.1
19 + .1	69 + 21.1	19 + 0	69 + 18.8	19 + 49.6
20 + .1	70 + 18.8	20 + 0	70 + 18.8	20 + .2
21 + .1	71 + 19.4	21 + 0	71 + 19.1	21 + 10.4
22 + .1	72 + 19.8	22 + 0	72 + 19.5	22 + 5.0
23 + .1	73 + 20.2	23 + 0	73 + 20.1	23 + 5.4
24 + .1	74 + 20.4	24 + 3.2	74 + 4.4	24 + 9.6
25 - 3.5	75 + 20.4	25 - .1	75 + 9.7	25 + 19.6
26 + .1	76 + 20.3	26 + 0	76 + 15.5	26 + 10.7
27 + .1	77 + 20.5	27 + 0	77 + 19.1	27 + 15.3
28 + .1	78 + 21.7	28 + 0	78 + 20.3	28 + 31.2
29 + .1	79 + 21.8	29 + 0	79 + 20.8	29 + 43.5
30 + .1	80 + 21.8	30 + 0	80 + 21.0	30 + .2
31 + .1	81 + 21.6	31 + 0	81 + 21.0	
32 - 2.6	82 + 21.6	32 + 0	82 + 21.1	Seq. 5
33 + .1	83 + 21.6	33 + 0	83 + 21.1	
34 + .1	84 + 8.6	34 + 0	84 + 21.2	
35 + .1	85 + 20.1	35 + 0	85 + 1.4	
36 + .1	86 + 20.4	36 - 1.1	86 + 21.5	
37 + .1	87 + 21.0	37 + .3	87 + 34.9	
38 + 0	88 + 6.6	38 + 0	88 + 22.2	
39 - 2.9	89 + 19.1	39 + 0	89 + 20.4	
40 + .1	90 + 19.6	40 - .1	90 + 20.9	
41 + .1	91 + 20.0	41 - .1	91 + 21.0	
42 + .1	92 + 1.2	42 - .1	92 + 26.4	
43 + .1	93 + 20.5	43 - .1	93 + 19.9	
44 + .1	94 + 20.6	44 - .1	94 + 20.6	
45 + .1	95 + 20.6	45 - .1	95 + 20.7	
46 + .1	96 + 20.6	46 - .1	96 + 20.7	
47 + 0	97 + 15.1	47 - .1	97 + 20.8	
48 + .1	98 + .1	48 - .1	98 + 20.7	
49 + 0	99 + .2	49 - .1	99 + 20.8	
50 + 0	100 + .1	50 - .1	100 + .1	

1985 .05 0° .03 0 10.0 +2.5° 1.010 2038.9 .002119

a) 1 + .1	51 + .2	b) 1 + 0	51 + .1	c) 1 + .1
2 + .1	52 + 1.8	2 + .1	52 + 1.3	2 + 5.7
3 + .1	53 + .2	3 + .1	53 + .1	3 + 4.9
4 - 1.4	54 + 9.6	4 + .1	54 + 3.6	4 + 4.9
5 + .1	55 + 8.5	5 + .1	55 + 4.8	5 + 5.1
6 + .1	56 + 6.8	6 + .1	56 + 3.2	6 + 5.7
7 + .1	57 + 6.1	7 + .1	57 + 5.0	7 + 5.8
8 + .1	58 + 7.3	8 + .1	58 + 7.2	8 + 6.0
9 + .1	59 + 6.5	9 + .1	59 + 6.2	9 + 8.3
10 + 11.4	60 + 6.7	10 + 1	60 + 6.4	10 + 10.3
11 - .9	61 + 6.7	11 + 1.0	61 + 6.5	11 + 4.7
12 + .1	62 + 7.0	12 - .1	62 + 7.4	12 + 4.4
13 + .1	63 + 7.5	13 - .1	63 + 7.5	13 + 4.4
14 + .1	64 + 7.6	14 - .1	64 + .4	14 + 4.5
15 + .1	65 + 7.4	15 - .1	65 + .2	15 + 5.7
16 + .1	66 + 7.4	16 - .1	66 + 2.9	16 + 5.8
17 + .1	67 + 7.4	17 - .1	67 + 6.8	17 + 6.8
18 - 1.0	68 + 7.4	18 - .1	68 + 6.9	18 + 10.5
19 + .1	69 + 6.7	19 - .1	69 + 6.1	19 + 10.6
20 + .1	70 + 5.5	20 - .1	70 + 5.0	20 + .1
21 + .1	71 + 6.1	21 - .1	71 + 5.8	21 + 4.6
22 + .1	72 + 6.2	22 - .1	72 + 5.9	22 + 2.9
23 + .1	73 + 6.2	23 - .1	73 + 5.9	23 + 3.3
24 + .1	74 + 6.3	24 - 1.3	74 + .1	24 + 4.1
25 - 1.8	75 + 6.3	25 + 0	75 - .8	25 + 5.0
26 + .1	76 + 6.2	26 + 0	76 - 2.6	26 + 4.4
27 + .1	77 + 6.6	27 + 0	77 + .2	27 + 4.6
28 + .2	78 + 6.7	28 + 0	78 + 7.8	28 + 6.9
29 + .2	79 + 7.1	29 + 0	79 + 6.9	29 + 8.1
30 + .2	80 + 7.1	30 + 0	80 + 7.0	30 + .1
31 + .2	81 + 7.0	31 + 0	81 + 6.9	
32 - 2.2	82 + 7.0	32 + 0	82 + 7.0	Seq. 5
33 + .1	83 + 8.6	33 + 0	83 + 6.7	
34 + .1	84 + 2.9	34 + 0	84 + 6.0	
35 + .1	85 + 6.4	35 + 0	85 + 6.0	
36 + .1	86 + 6.4	36 + 0	86 + 6.5	
37 + .1	87 + 6.9	37 + 0	87 + 6.5	
38 + .1	88 + .7	38 + 0	88 + 6.8	
39 - 2.1	89 + 7.5	39 + 0	89 + 6.5	
40 + .1	90 + 6.6	40 + 0	90 + 5.9	
41 + .1	91 + 6.3	41 + 0	91 + 6.0	
42 + .1	92 + .6	42 + 0	92 + 6.5	
43 + .1	93 + 6.5	43 + 0	93 + 5.8	
44 + .1	94 + 6.2	44 + 0	94 + 5.8	
45 + .1	95 + 6.0	45 + 0	95 + 5.9	
46 + .1	96 + 6.0	46 + 0	96 + 5.5	
47 + .1	97 + 5.6	47 + 0	97 + 5.8	
48 + .1	98 + .2	48 + 0	98 + 6.1	
49 + .1	99 + .4	49 + 0	99 + 6.4	
50 + .1	100 + .1	50 + 0	100 + .1	

1986 .05 0° .03 0 10.0 0° 1.010 2038.9 .002119

a) 1 + 0	51 + .1	b) 1 + 0	51 + .2	c) 1 + .1
2 + 0	52 + 1.0	2 + .2	52 + .9	2 + 5.9
3 + 0	53 + .2	3 + .2	53 + .1	3 + 4.4
4 - 2.5	54 + 9.1	4 + .2	54 + 1.9	4 + 4.7
5 + 0	55 + 8.6	5 + .2	55 + 1.4	5 + 5.6
6 + 0	56 + 6.7	6 + .2	56 + .9	6 + 7.2
7 + 0	57 + 6.2	7 + .2	57 + 5.1	7 + 7.2
8 + 0	58 + 7.1	8 + .2	58 + 7.2	8 + 8.1
9 + 0	59 + 5.9	9 + .2	59 + 7.0	9 + 11.6
10 + 3.2	60 + 6.8	10 + .2	60 + 6.4	10 + 12.9
11 - 2.1	61 + 6.8	11 - 1.0	61 + 6.4	11 + 6.9
12 + 0	62 + 7.2	12 + .1	62 + 7.1	12 + 5.3
13 + .1	63 + 7.4	13 + 0	63 + 7.4	13 + 5.5
14 + .1	64 + 7.5	14 - .9	64 + .4	14 + 6.0
15 + .1	65 + 7.3	15 + 0	65 + .2	15 + 7.5
16 + .1	66 + 7.0	16 + .1	66 + 3.3	16 + 7.2
17 + .1	67 + 7.0	17 + .1	67 + 7.1	17 + 7.6
18 - 2.2	68 + 7.1	18 + .1	68 + 7.0	18 + 11.1
19 + 0	69 + 6.2	19 + .1	69 + 6.8	19 + 12.8
20 + .2	70 + 5.5	20 + .1	70 + 6.1	20 + .2
21 + .2	71 + 5.9	21 + .2	71 + 6.2	21 + 4.8
22 + .2	72 + 6.0	22 + .2	72 + 6.3	22 + 3.4
23 + .3	73 + 6.0	23 + .2	73 + 6.3	23 + 3.7
24 + .3	74 + 6.1	24 - .7	74 + .1	24 + 4.4
25 - 1.7	75 + 6.2	25 + 0	75 - 1.2	25 + 5.5
26 + 0	76 + 6.1	26 + 0	76 + 1.3	26 + 4.9
27 + 0	77 + 6.2	27 + 0	77 + 6.6	27 + 5.1
28 + 0	78 + 6.4	28 + 0	78 + 6.9	28 + 8.1
29 + 0	89 + 6.8	29 + 0	79 + 7.0	29 + 9.5
30 + 0	80 + 6.9	30 + 0	80 + 7.2	30 + .1
31 + 0	81 + 6.8	31 + 0	81 + 6.9	
32 - 1.9	82 + 7.0	32 + 0	82 + 7.1	Seq. 5
33 + 0	83 + 5.9	33 + 0	83 + 7.1	
34 + 0	84 + 2.5	34 + 0	84 + 6.8	
35 + .1	85 + 6.3	35 + 0	85 + 6.8	
36 + .1	86 + 6.3	36 + 0	86 + 6.8	
37 + .1	87 + 6.8	37 + 0	87 + 7.0	
38 + .1	88 + .2	38 + 0	88 + 7.2	
39 - 1.9	89 + 6.4	39 + 0	89 + 6.6	
40 + 0	90 + 6.2	40 + 0	90 + 6.6	
41 + .1	91 + 6.2	41 + 0	91 + 6.6	
42 + .1	92 + .2	42 + 0	92 + 6.8	
43 + .1	93 + 6.1	43 + 0	93 + 6.5	
44 + .2	94 + 5.9	44 + 0	94 + 6.3	
45 + .2	95 + 5.8	45 + 0	95 + 6.3	
46 + .2	96 + 5.7	46 + 0	96 + 5.8	
47 + .2	97 + 5.4	47 + 0	97 + 6.0	
48 + .2	98 + .1	48 + 0	98 + 6.3	
49 + .2	99 + .1	49 + 0	99 + 6.6	
50 + .2	100 + .1	50 + 0	100 + .1	

1987	.05	0°	.03	0	10.0	-2.5°	1.010	2038.9	.002119
a) 1 -	.1	51 +	.2	b) 1 +	0	51 +	.1	c) 1 +	1
2 -	.1	52 +	1.1	2 +	0	52 +	1.5	2 +	4.3
3 -	.1	53 +	.1	3 -	.1	53 +	.3	3 +	3.3
4 -	2.8	54 +	8.6	4 -	1	54 +	2.6	4 +	3.5
5 +	0	55 +	8.2	5 -	.1	55 +	1.4	5 +	4.0
6 +	0	56 +	6.6	6 -	.1	56 +	.1	6 +	5.0
7 -	.1	57 +	6.0	7 -	.1	57 +	5.4	7 +	5.3
8 -	.1	58 +	6.7	8 -	.1	58 +	8.8	8 +	5.9
9 -	.1	59 +	6.9	9 -	.1	59 +	6.6	9 +	8.6
10 +	.7	60 +	6.7	10 -	.1	60 +	6.7	10 +	10.2
11 -	2.3	61 +	6.6	11 -	1.3	61 +	6.8	11 +	4.4
12 +	0	62 +	6.6	12 +	0	62 +	7.5	12 +	3.9
13 +	0	63 +	6.9	13 +	0	63 +	7.7	13 +	4.1
14 +	0	64 +	7.1	14 -	1.4	64 +	.8	14 +	4.5
15 +	0	65 +	6.9	15 +	0	65 +	.6	15 +	5.9
16 +	0	66 +	6.7	16 +	0	66 +	4.2	16 +	5.8
17 +	0	67 +	6.7	17 +	0	67 +	7.7	17 +	6.5
18 -	2.8	68 +	6.7	18 +	0	68 +	7.3	18 +	9.1
19 +	0	69 +	6.6	19 +	0	69 +	6.5	19 +	10.6
20 +	0	70 +	5.4	20 +	0	70 +	5.5	20 +	2
21 +	0	71 +	5.5	21 +	0	71 +	5.9	21 +	3.9
22 +	0	72 +	5.7	22 +	0	72 +	6.0	22 +	3.0
23 +	0	73 +	5.7	23 +	0	73 +	6.1	23 +	3.0
24 +	0	74 +	5.7	24 +	0	74 +	.4	24 +	3.4
25 -	2.4	75 +	5.8	25 +	0	75 +	1.8	25 +	4.3
26 +	0	76 +	5.8	26 +	0	76 +	4.5	26 +	3.9
27 +	0	77 +	5.9	27 +	0	77 +	5.9	27 +	3.8
28 +	0	78 +	6.1	28 +	0	78 +	6.6	28 +	6.1
29 +	0	79 +	6.5	29 +	0	79 +	7.0	29 +	8.2
30 +	0	80 +	6.6	30 +	0	80 +	7.1	30 +	.2
31 +	0	81 +	6.5	31 +	0	81 +	6.9	Seq. 5	
32 -	2.0	82 +	6.5	32 +	0	82 +	6.9		
33 +	0	83 +	6.6	33 +	0	83 +	7.0		
34 +	0	84 +	2.4	34 +	0	84 +	7.0		
35 +	0	85 +	5.9	35 +	0	85 +	6.9		
36 +	0	86 +	6.1	36 +	0	86 +	6.9		
37 +	0	87 +	6.3	37 +	0	87 +	8.4		
38 +	0	88 +	1.1	38 +	0	88 +	7.2		
39 -	1.4	89 +	6.0	39 +	0	89 +	6.9		
40 +	0	90 +	5.7	40 +	0	90 +	6.3		
41 +	0	91 +	5.8	41 +	0	91 +	6.4		
42 +	0	92 +	.4	42 +	0	92 +	7.6		
43 +	0	93 +	5.9	43 +	0	93 +	6.2		
44 +	0	94 +	5.8	44 +	0	94 +	6.0		
45 -	.1	95 +	5.6	45 +	0	95 +	5.6		
46 -	.1	96 +	5.7	46 +	0	96 +	5.8		
47 -	.1	97 +	5.7	47 +	0	97 +	6.0		
48 -	.1	98 +	.1	48 +	0	98 +	6.2		
49 +	0	99 +	.1	49 +	0	99 +	6.5		
50 +	0	100 +	.2	50 +	0	100 +	.1		

1997 .05 0° .03 0 10.0 +2.5° 1.048 2015.6 .002276

a) 1 + 0	51 + .1	b) 1 + 0	51 + .1	c) 1 + .2
2 + 0	52 + 1.6	2 + 0	52 + 1.3	2 +23.9
3 + 0	53 + .7	3 - .1	53 + .2	3 +20.0
4 - 5.0	54 +32.2	4 - .1	54 + 6.5	4 +20.0
5 - 1.2	55 +31.2	5 - .1	55 +15.5	5 +21.5
6 + .1	56 +29.5	6 - .1	56 +14.6	6 +19.4
7 + .1	57 +29.4	7 - .1	57 +25.9	7 +13.5
8 + .1	58 +29.8	8 - .1	58 +29.0	8 +17.8
9 + .1	59 +29.3	9 - .1	59 +29.2	9 +33.1
10 - 3.6	60 +29.3	10 + 0	60 +29.2	10 +45.5
11 - 5.0	61 +29.0	11 + 5.2	61 +29.2	11 +16.0
12 - 1.1	62 +28.7	12 - .1	62 +29.5	12 + 6.4
13 + .1	63 +29.7	13 - .1	63 +29.8	13 + 6.3
14 + .1	64 +30.1	14 + .4	64 - 2.0	14 +11.1
15 + .1	65 +30.3	15 - .1	65 - 2.8	15 +20.2
16 + .1	66 +28.6	16 - .1	66 +12.9	16 +16.0
17 + .1	67 +29.5	17 - .1	67 +29.6	17 +28.9
18 - 5.2	68 +29.9	18 - .1	68 +29.6	18 +40.2
19 - 1.2	69 +30.0	19 - .1	69 +29.0	19 +45.3
20 + .1	70 +26.6	20 - .1	70 +29.0	20 + .1
21 + .1	71 +28.7	21 - .1	71 +29.0	21 +13.1
22 + .1	72 +29.1	22 - .1	72 +29.0	22 +10.4
23 + .1	73 +29.6	23 - .1	73 +29.0	23 + 6.5
24 - .1	74 +28.8	24 - 3.3	74 - .9	24 +12.3
25 - 8.0	75 +29.9	25 + 0	75 - 4.0	25 +18.9
26 - .6	76 +30.2	26 + .1	76 +10.2	26 +14.4
27 + .1	77 +30.3	27 + .1	77 +11.8	27 +16.4
28 + .1	78 +29.5	28 + .1	78 +34.0	28 +26.8
29 + .1	79 +30.7	29 + .1	79 +30.1	29 +33.3
30 + .1	80 +30.9	30 - .1	80 +30.2	30 + .1
31 + .2	81 +30.9	31 - .1	81 +30.6	
32 - 8.4	82 +30.9	32 + .1	82 +30.8	Seq. 5
33 + 0	83 +40.3	33 + .1	83 +30.9	
34 + 0	84 +13.8	34 - .1	84 +29.7	
35 + 0	85 +30.2	35 + .1	85 +29.7	
36 + .1	86 +30.2	36 - .1	86 +29.8	
37 + .1	87 +30.2	37 + .1	87 +28.2	
38 + .2	88 - 1.8	38 + .1	88 +29.1	
39 - 8.3	89 +33.8	39 + .1	89 +29.2	
40 + .1	90 +29.3	40 + .1	90 +29.2	
41 + .1	91 +30.0	41 + .1	91 +29.3	
42 + .1	92 + 2.3	42 + .1	92 +31.8	
43 + .2	93 +30.3	43 + .1	93 +27.6	
44 + .2	94 +30.3	44 + .1	94 +28.3	
45 + .3	95 +29.9	45 + .1	95 +28.6	
46 + .1	96 +29.9	46 + 0	96 +28.9	
47 + .1	97 +29.9	47 + 0	97 +29.1	
48 + .1	98 + .3	48 + 0	98 +29.0	
49 + .1	99 + .4	49 - .1	99 +29.4	
50 + .1	100 + .2	50 + 0	100 + .2	

1998	.05	00	.03	0	10.0	00	1.048	2015.6	.002276
a) 1 - .1		51 + .2		b) 1 + 0		51 + .1		c) 1 + .1	
2 - .1		52 + .8		2 + 0		52 + .7		2 +21.9	
3 - .1		53 + .2		3 + 0		53 + .1		3 +17.4	
4 - 8.3		54 +32.7		4 - .1		54 + .1		4 +18.3	
5 - 1.2		55 +32.7		5 - .1		55 - 1.3		5 +21.5	
6 + 0		56 +32.3		6 - .1		56 + 1.7		6 +28.8	
7 + 0		57 +31.6		7 - .1		57 +27.3		7 -24.0	
8 + 0		58 +31.6		8 - .1		58 +30.9		8 +32.5	
9 + 0		59 +31.6		9 - .1		59 +30.6		9 +45.3	
10 + 0		60 +31.6		10 - .1		60 +30.6		10 +52.2	
11 - 7.8		61 +31.6		11 - 5.2		61 +30.8		11 +23.5	
12 - 1.2		62 +31.4		12 + 0		62 +31.5		12 +19.1	
13 - .8		63 +31.5		13 + 0		63 +31.8		13 +18.2	
14 + 0		64 +31.7		14 - 5.0		64 - 1.2		14 +19.9	
15 + 0		65 +31.9		15 - 0		65 - 3.0		15 +28.9	
16 + 0		66 +30.9		16 + 0		66 +17.2		16 +22.3	
17 + 0		67 +30.9		17 + 0		67 +32.0		17 +30.7	
18 - 8.2		68 +31.0		18 + 0		68 +31.0		18 +46.1	
19 - .8		69 +31.4		19 + 0		69 +30.6		19 +55.5	
20 - 0		70 +29.1		20 + 0		70 +30.6		20 - .3	
21 - 0		71 +30.1		21 + 0		71 +30.6		21 +21.4	
22 + 0		72 +30.5		22 + 0		72 +30.7		22 +17.3	
23 + 0		73 +30.7		23 + 0		73 +30.8		23 +17.6	
24 + 0		74 +30.2		24 - 2 9		74 - 1.7		24 -22.4	
25 - 8.0		75 +30.4		25 + 0		75 - 4.5		25 +28.0	
26 - .9		76 +30.7		26 + 0		76 +12.3		26 +22.7	
27 + 0		77 +31.0		27 + 0		77 +32.3		27 +27.0	
28 + 0		78 +31.1		28 + 0		78 +31.3		28 +38.3	
29 + 0		79 +31.1		29 + 0		79 +31.3		29 +44.5	
30 + 0		80 +31.3		30 + 0		80 +31.3		30 + .2	
31 + 0		81 +31.5		31 + 0		81 +31.3			
32 - 8.3		82 +31.5		32 + 0		82 +31.6		Seq. 5	
33 - .8		83 +32.4		33 + 0		83 +31.7			
34 + 0		84 +14.8		34 + 0		84 +31.5			
35 + 0		85 +31.2		35 + 0		85 +31.5			
36 + 0		86 +31.3		36 + 0		86 +31.5			
37 + 0		87 +31.5		37 + 0		87 +32.3			
38 + 0		88 - 2.3		38 + 0		88 +32.3			
39 - 7.9		89 +33.1		39 + 0		89 +31.8			
40 - .1		90 +29.6		40 + 0		90 +31.8			
41 - .1		91 +30.5		41 + 0		91 +31.8			
42 - .1		92 + 2.2		42 + 0		92 +32.8			
43 - .1		93 +31.1		43 + 0		93 +30.5			
44 - .1		94 +31.1		44 + 0		94 +30.8			
45 - .1		95 +31.1		45 + 0		95 +30.9			
46 - .1		96 +31.1		46 + 0		96 +30.9			
47 - .1		97 +31.1		47 + 0		97 +31.0			
48 - .1		98 + .2		48 + 0		98 +31.0			
49 - .1		99 + .3		49 + 0		99 +31.0			
50 - .1		100 + .2		50 + 0		100 + .1			

1999 .05 0° .03 0 10.0 -2.5° 1.048 2015.6 .002276

a) 1 + 0	51 + .2	b) 1 - .1	51 + .1	c) 1 + .1
2 + 0	52 + .8	2 - .1	52 + .7	2 +22.6
3 + 0	53 + .1	3 - .1	53 + .1	3 +18.7
4 - 8.5	54 +31.3	4 - .1	54 + .7	4 -19.0
5 + 0	55 +32.3	5 - .1	55 - 1.6	5 +21.1
6 + 0	56 +31.9	6 - .1	56 - 5.2	6 +28.5
7 + 0	57 +30.0	7 - .1	57 -20.8	7 +24.5
8 + 0	58 +29.4	8 - .1	58 +38.4	8 +29.0
9 + 0	59 +30.6	9 - .1	59 +31.2	9 +41.8
10 + .1	60 +30.8	10 - .1	60 +30.8	10 +49.5
11 - 9.5	61 +30.8	11 - 4.4	61 +30.9	11 +21.4
12 + 0	62 +30.2	12 + 0	62 +31.4	12 +15.5
13 + 0	63 +30.9	13 - .1	63 +31.9	13 +15.4
14 + 0	64 +31.2	14 - 4.9	64 - 1.4	14 -19.1
15 + 0	65 +31.3	15 - .1	65 - 1.7	15 -29.4
16 + 0	66 +27.9	16 + .1	66 +19.3	16 +23.4
17 + 0	67 +29.6	17 + .1	67 +37.0	17 +35.0
18 - 9.5	68 +30.3	18 + .1	68 +31.4	18 +45.1
19 + 0	69 +30.7	19 + .1	69 +28.3	19 +52.0
20 + 0	70 +28.5	20 + .1	70 +28.4	20 + .3
21 + 0	71 +29.1	21 + .1	71 +28.9	21 +22.8
22 + 0	72 +29.3	22 + .1	72 +29.1	22 -19.1
23 + 0	73 +29.5	23 - .1	73 +29.6	23 +18.5
24 + 0	74 +29.7	24 + .1	74 + 2.9	24 +20.8
25 - 7.2	75 +29.5	25 - .1	75 +11.1	25 +25.9
26 - .5	76 +29.7	26 + 0	76 +22.4	26 +21.4
27 + 0	77 +30.0	27 + 0	77 +28.1	27 +21.5
28 + 0	78 +30.5	28 + 0	78 +29.6	28 +33.9
29 + 0	79 +30.7	29 + 0	79 +30.0	29 +46.0
30 + 0	80 +30.7	30 + 0	80 +30.1	30 + .1
31 + 0	81 +30.7	31 + 0	81 +30.2	
32 - 5.8	82 +30.7	32 + 0	82 +30.3	Seq. 5
33 - 1.1	83 +30.7	33 + 0	83 +30.5	
34 + 0	84 +13.9	34 + 0	84 +30.5	
35 + 0	85 +29.8	35 + 0	85 +30.8	
36 + 0	86 +29.9	36 - 1.2	86 +30.9	
37 + 0	87 +30.4	37 + .1	87 +42.2	
38 + 0	88 + 5.3	38 - .1	88 +32.1	
39 - 4.1	89 +29.0	39 - .1	89 +31.3	
40 + 0	90 +29.2	40 - .1	90 +31.3	
41 + 0	91 +29.5	41 - .1	91 +31.3	
42 + 0	92 + 1.7	42 - .1	92 +35.2	
43 + 0	93 +30.0	43 - .1	93 +29.9	
44 + 0	94 +29.6	44 - .1	94 +30.2	
45 + 0	95 +29.7	45 - .1	95 +30.3	
46 + 0	96 +29.8	46 - .1	96 +30.4	
47 + 0	97 +29.9	47 - .1	97 +30.4	
48 + 0	98 + .2	48 - .1	98 +30.5	
49 + 0	99 + .2	49 - .1	99 +30.6	
50 + 0	100 + .2	50 - .1	100 + .2	

2015 .00 0° .01 0 10.0 0° 1.010 2019.8 .002170

a) 1 - .1	51 + .1	b) 1 + 0	51 + .1	c) 1 + .1
2 - .1	52 + 1.1	2 + 0	52 + 1.3	2 + 11.9
3 - .1	53 + .1	3 + 0	53 + .5	3 + 11.6
4 - 2.8	54 + 15.8	4 + 0	54 + 1.8	4 + 11.6
5 + .1	55 + 15.1	5 + 0	55 + .2	5 + 10.6
6 + .1	56 + 13.5	6 + 0	56 + 1.3	6 + 10.7
7 + 0	57 + 13.4	7 + 0	57 + 9.5	7 + 12.1
8 + 0	58 + 14.2	8 - .1	58 + 14.3	8 + 12.5
9 + 0	59 + 13.5	9 - .1	59 + 13.7	9 + 13.7
10 + 3.6	60 + 13.2	10 - .1	60 + 13.6	10 + 13.9
11 - 2.7	61 + 13.2	11 - 2.0	61 + 13.5	11 + 13.0
12 + 0	62 + 13.6	12 + .1	62 + 13.7	12 + 11.0
13 + 0	63 + 13.8	13 + .1	63 + 13.9	13 + 11.9
14 + 0	64 + 14.2	14 - 1.4	64 + .9	14 + 11.9
15 + 0	65 + 14.3	15 + 0	65 + .1	15 + 12.1
16 + 0	66 + 14.1	16 + 0	66 + 6.7	16 + 12.5
17 + 0	67 + 13.7	17 + .1	67 + 13.1	17 + 12.8
18 - 2.3	68 + 13.7	18 + .1	68 + 13.6	18 + 13.6
19 + .1	69 + 13.2	19 + 0	69 + 13.5	19 + 14.2
20 + .1	70 + 12.6	20 + 0	70 + 13.1	20 + .1
21 + .1	71 + 12.8	21 - 0	71 + 13.0	21 + 10.1
22 + .1	72 + 12.9	22 - 0	72 + 13.0	22 + 9.9
23 + .1	73 + 12.8	23 + 0	73 + 13.0	23 + 10.0
24 + .1	74 + 13.0	24 - 1.5	74 + .2	24 + 10.1
25 - 2.5	75 + 13.1	25 + 0	75 - 1.5	25 + 10.2
26 + 0	76 + 13.0	26 + .2	76 - 5.9	26 + 10.5
27 + .2	77 + 13.2	27 + .2	77 + 12.8	27 + .7
28 + .2	78 + 13.3	28 + .2	78 + 13.3	28 + 11.0
29 + .2	79 + 13.4	29 + .2	79 + 13.5	29 + 10.9
30 + .2	80 + 13.5	30 + .2	80 + 13.8	30 + .1
31 + .2	81 + 13.5	31 + .2	81 + 13.7	
32 - 2.7	82 + 13.6	32 + 0	82 + 13.7	Seq. 5
33 + 0	83 + 13.7	33 + 0	83 + 13.8	
34 + 0	84 + 6.3	34 + 0	84 + 13.6	
35 + 0	85 + 13.0	35 + 0	85 + 13.5	
36 + 0	86 + 13.0	36 + 0	86 + 13.6	
37 + 0	87 + 13.4	37 + 0	87 + 13.6	
38 + 0	88 + .2	38 + 0	88 + 14.0	
39 - 2.3	89 + 13.0	39 + 0	89 + 13.7	
40 + 0	90 + 12.9	40 + 0	90 + 13.2	
41 + 0	91 + 13.0	41 + 0	91 + 13.1	
42 + 0	92 + 1.3	42 + 0	92 + 13.2	
43 + 0	93 + 12.8	43 - .1	93 + 13.3	
44 + 0	94 + 12.7	44 - .1	94 + 13.0	
45 + 0	95 + 12.6	45 - .1	95 + 12.0	
46 + 0	96 + 12.6	46 - .1	96 + 12.5	
47 + 0	97 + 12.7	47 - .1	97 + 12.7	
48 + 0	98 + .5	48 - .1	98 + 13.0	
49 + 0	99 + .7	49 - .1	99 + 13.4	
50 - .1	100 + .1	50 - .1	100 + .1	

2016 .05 0° .01 0 10.0 0° 1.048 2019.8 .002246

a) 1 + .1	51 + .1	b) 1 + 0	51 + .2	c) 1 + .1
2 + .1	52 + 1.0	2 + 0	52 + 1.0	2 +61.6
3 + .1	53 + .1	3 + 0	53 + .1	3 +58.6
4 -13.9	54 +04.1	4 + 0	54 - 2.1	4 +58.6
5 + .1	55 +04.0	5 - .1	55 -10.7	5 +59.5
6 + .1	56 +02.3	6 - .1	56 -14.7	6 +62.4
7 + .1	57 +62.2	7 - .1	57 +47.3	7 +62.1
8 + .1	58 +62.3	8 - .1	58 +61.8	8 +64.9
9 + .1	59 +62.4	9 - .1	59 +62.0	9 +71.4
10 + 1.6	60 +62.5	10 - .1	60 +62.0	10 +74.8
11 -14.1	61 +62.5	11 -10.1	61 +62.0	11 +60.9
12 + .1	62 +62.5	12 + 0	62 +62.3	12 +59.3
13 + .1	63 +62.6	13 + 0	63 +62.6	13 +59.5
14 + .1	64 +62.8	14 - 8.9	64 - 3.6	14 +60.0
15 + .1	65 +62.9	15 + 0	65 -10.6	15 +64.4
16 + .1	66 +62.8	16 + 0	66 -29.1	16 +61.6
17 + .1	67 +62.8	17 + 0	67 +61.8	17 +64.9
18 -14.5	68 +62.8	18 + 0	68 +61.8	18 +71.0
19 + .2	69 +62.8	19 + 0	69 +60.8	19 +77.2
20 + .2	70 +62.0	20 + 0	70 +61.8	20 + .2
21 + .2	71 +61.9	21 + 0	71 +61.8	21 +60.1
22 + .2	72 +62.0	22 + 0	72 +61.8	22 +57.1
23 + .2	73 +62.0	23 + 0	73 +61.9	23 +57.1
24 + .2	74 +62.0	24 - 7.1	74 - 3.3	24 +58.0
25 -14.1	75 +62.1	25 + 0	75 -11.1	25 +60.5
26 + .2	76 +62.3	26 - .1	76 -23.9	26 +60.0
27 + .2	77 +62.5	27 - .1	77 +61.4	27 +56.1
28 + .2	78 +62.6	28 - .1	78 +61.8	28 +67.0
29 + .2	79 +62.6	29 - .1	79 +62.1	29 +65.4
30 + .2	80 +62.6	30 - .1	80 +62.4	30 + .1
31 + .2	81 +62.6	31 - .1	81 +62.5	
32 -13.4	82 +62.6	32 - .1	82 +62.5	Seq. 5
33 + .3	83 +62.7	33 - .1	83 +62.5	
34 + .2	84 +33.1	34 - .1	84 +62.6	
35 + .2	85 +62.6	35 - .1	85 +62.6	
36 + .2	86 +62.6	36 - .1	86 +62.6	
37 + .2	87 +62.6	37 - .1	87 +62.6	
38 + .2	88 - 6.3	38 - .1	88 +62.7	
39 -13.8	89 +62.7	39 - .1	89 +62.8	
40 + .1	90 +61.9	40 - .1	90 +62.8	
41 + .1	91 +62.0	41 - .1	91 +62.8	
42 + .1	92 + 5.7	42 - .1	92 +62.8	
43 + .1	93 +62.6	43 - .1	93 +62.7	
44 + .1	94 +61.7	44 - .1	94 +62.7	
45 + .1	95 +62.5	45 - .1	95 +62.7	
46 + .1	96 +62.4	46 - .1	96 +62.6	
47 + .1	97 +62.4	47 - .1	97 +62.6	
48 + .1	98 + .3	48 - .1	98 +62.6	
49 + .1	99 + .6	49 - .1	99 +62.6	
50 + .1	100 + .1	50 - .1	100 + .1	

2035 .10 60° .25 0 10.0 +2.5° 1.155 2036.1 .002431

a) 1 + 0	51 + .2	b) 1 + .1	51 + .2	c) 1 + .2
2 + .2	52 + 4.1	2 + .6	52 + 3.7	2 + 5.8
3 + 0	53 + 2.3	3 + 0	53 + 2.2	3 + 2.7
4 - 1.3	54 + 30.6	4 + .8	54 + 11.0	4 + 2.4
5 - 1.5	55 + 29.6	5 + 1.0	55 + 11.0	5 + 4.3
6 + .1	56 + 27.0	6 + 1.1	56 + 9.3	6 + 14.4
7 + .1	57 + 28.2	7 + 1.5	57 + 12.2	7 + 29.4
8 + .1	58 + 28.1	8 + 2.7	58 + 12.4	8 + 33.2
9 + .1	59 + 23.7	9 + 3.9	59 + 12.4	9 + 51.9
10 - 5.5	60 + 23.4	10 + 4.0	60 + 12.7	10 + 71.4
11 - .9	61 + 24.9	11 + 15.3	61 + 14.8	11 + 12.7
12 - .9	62 + 24.8	12 + 0	62 + 18.4	12 + 9.2
13 + .1	63 + 18.6	13 + 1.5	63 + 20.0	13 + 9.9
14 + .1	64 + 19.6	14 + 5.0	64 + 5.4	14 + 10.2
15 + .1	65 + 26.7	15 + .2	65 + 5.4	15 + 15.8
16 + .1	66 + 20.9	16 + .4	66 + 5.8	16 + 29.6
17 + .1	67 + 14.7	17 + .4	67 + 8.2	17 + 33.5
18 - .4	68 + 16.0	18 + 5	68 + 14.9	18 + 44.5
19 - .4	69 + 25.0	19 + .6	69 + 20.6	19 + 61.4
20 - .5	70 + 17.2	20 + .3	70 + 29.6	20 + .1
21 + .1	71 + 10.0	21 + .4	71 + 29.7	21 + 21.6
22 + .1	72 + 16.5	22 + .4	72 + 29.9	22 + 19.5
23 + .2	73 + 25.4	23 + .6	73 + 28.3	23 + 19.0
24 + .4	74 + 20.0	24 + .8	74 + 3.9	24 + 19.7
25 + 0	75 + 12.5	25 + .5	75 + 3.0	25 + 21.5
26 - .2	76 + 18.2	26 + .5	76 + 2.8	26 + 29.5
27 - .3	77 + 26.5	27 + .5	77 + 3.6	27 + 28.6
28 + .1	78 + 18.8	28 + .5	78 + 5.6	28 + 41.4
29 + .1	79 + 12.1	29 + .5	79 + 9.2	29 + 44.4
30 + .1	80 + 17.8	30 + .5	80 + 21.1	30 + .1
31 + .1	81 + 26.1	31 + .5	81 + 30.1	
32 - .3	82 + 20.7	32 + .5	82 + 30.9	Seq. 5
33 - .6	83 + 5.7	33 + .5	83 + 31.1	
34 + .2	84 + 7.8	34 + .5	84 + 25.7	
35 + .2	85 + 30.2	35 + .5	85 + 26.9	
36 + .2	86 + 28.5	36 + .2	86 + 27.9	
37 + .2	87 + 28.5	37 + .4	87 + 21.2	
38 + .2	88 + 3.8	38 + .3	88 + 17.0	
39 - .2	89 + 3.8	39 + .5	89 + 13.7	
40 - .8	90 + 19.9	40 + 0	90 + 21.9	
41 + .1	91 + 31.1	41 + .1	91 + 27.0	
42 + .1	92 + 2.5	42 + .1	92 + 20.5	
43 + .1	93 + 25.8	43 + .1	93 + 27.2	
44 + .1	94 + 27.1	44 + .1	94 + 24.2	
45 + .1	95 + 27.3	45 + .1	95 + 23.8	
46 + 0	96 + 27.5	46 + .1	96 + 25.8	
47 + 0	97 + 22.5	47 + .1	97 + 26.0	
48 + 0	98 + 2.4	48 + .1	98 + 26.4	
49 + 0	99 + 1.9	49 + 0	99 + 27.9	
50 + 0	100 + .2	50 + 0	100 + .2	

2030 .10 60° 25 0 10.0 0° 1.155 2036.1 .002431

a) 1 - .1	51 + .2	b) 1 - .1	51 + .1	c) 1 + .2
2 - .4	52 + 5.0	2 - .1	52 + 5.0	2 + 10.6
3 + .1	53 + 1.7	3 - .1	53 + 1.4	3 + 8.3
4 + .1	54 + 25.8	4 - .1	54 + 6.5	4 + 8.4
5 + .1	55 + 22.4	5 - .1	55 + 8.2	5 + 9.3
6 + .3	56 + 23.0	6 - .1	56 + 5.7	6 + 15.7
7 + .1	57 + 30.7	7 - .1	57 + 12.8	7 + 28.4
8 + .2	58 + 23.9	8 - 1	58 + 17.2	8 + 31.5
9 + .3	59 + 19.6	9 + 0	59 + 20.9	9 + 46.1
10 + 1.8	60 + 22.2	10 + .2	60 + 24.9	10 + 60.5
11 + 0	61 + 26.9	11 + 2.0	61 + 28.6	11 + 14.6
12 + 0	62 + 24.3	12 - .1	62 + 29.0	12 + 11.3
13 + 0	63 + 20.5	13 + .2	63 + 27.3	13 + 11.8
14 + .1	64 + 24.2	14 + 2.2	64 + 5.6	14 + 11.7
15 + .5	65 + 28.9	15 - .1	65 + 7.2	15 + 15.6
16 + 2	66 + 25.0	16 + 0	66 + 9.6	16 + 29.1
17 + .4	67 + 19.7	17 + 0	67 + 14.1	17 + 35.1
18 + 0	68 + 22.7	18 - .1	68 + 19.3	18 + 45.8
19 + 0	69 + 27.4	19 + 1	69 + 23.6	19 + 61.1
20 + 0	70 + 23.2	20 + 0	70 + 28.1	20 + .1
21 + .1	71 + 19.6	21 + 0	71 + 28.6	21 + 7.5
22 - .3	72 + 22.0	22 + 0	72 + 27.5	22 + 6.4
23 - .6	73 + 27.1	23 + .8	73 + 24.0	23 + 5.7
24 - .7	74 + 25.1	24 + 3.8	74 + 4.8	24 + 7.6
25 + .4	75 + 21.2	25 + 0	75 + 6.7	25 + 13.0
26 + .2	76 + 23.9	26 + .1	76 + 10.1	26 + 26.7
27 + .2	77 + 28.2	27 + .1	77 + 15.2	27 + 28.5
28 - .3	78 + 25.1	28 + .1	78 + 20.0	28 + 44.7
29 + .5	79 + 21.8	29 - .1	79 + 24.1	29 + 50.8
30 + .5	80 + 23.9	30 + .2	80 + 27.9	30 + .1
31 - .7	81 + 28.2	31 + 0	81 + 26.2	
32 + 0	82 + 21.8	32 - .1	82 + 24.4	Seq. 5
33 + 0	83 + 15.6	33 - .1	83 + 23.1	
34 + 0	84 + 10.9	34 - .1	84 + 23.6	
35 + .2	85 + 27.2	35 + 0	85 + 26.2	
36 - .2	86 + 24.2	36 + 0	86 + 27.4	
37 + .4	87 + 27.7	37 - .4	87 + 14.6	
38 - .4	88 + 6.3	38 - .4	88 + 28.5	
39 + .2	89 + 16.3	39 + .6	89 + 27.6	
40 + 0	90 + 27.7	40 - .1	90 + 23.9	
41 + .1	91 + 25.3	41 - .1	91 + 26.8	
42 + .1	92 + 1.8	42 - .1	92 + 14.7	
43 - .3	93 + 26.8	43 - .1	93 + 27.2	
44 + .4	94 + 23.7	44 - .1	94 + 26.5	
45 + .5	95 + 25.3	45 - .1	95 + 23.4	
46 + 0	96 + 26.7	46 - .1	96 + 26.6	
47 + 0	97 + 20.8	47 - .1	97 + 23.8	
48 + 0	98 + 1.5	48 - .1	98 + 26.6	
49 + 0	99 + 1.7	49 - .1	99 + 28.0	
50 + 0	100 + 1	50 - .1	100 + .2	

2037 .10 60° .25 0 10.0 -2.5° 1.155 2036.1 .002431

a) 1 + .1	51 + .1	b) 1 - .1	51 + .1	c) 1 + .1
2 + .2	52 + 5.1	2 + .1	52 + 5.1	2 + 22.5
3 + .2	53 + 1.8	3 - .1	53 + 1.5	3 + 21.8
4 + 0	54 + 21.4	4 + 0	54 + 4.6	4 + 21.7
5 + 0	55 + 14.0	5 + .2	55 + 5.0	5 + 21.7
6 + 0	56 + 19.5	6 + .2	56 + 2.4	6 + 23.5
7 + .1	57 + 30.4	7 + .3	57 + 5.6	7 + 30.1
8 + .1	58 + 18.5	8 + .3	58 + 5.0	8 + 33.3
9 + .2	59 + 10.5	9 + .3	59 + 7.8	9 + 42.6
10 + 1.3	60 + 18.7	10 - .3	60 + 14.8	10 + 53.8
11 + 0	61 + 27.4	11 - .4	61 + 29.5	11 + 12.3
12 + 0	62 + 18.4	12 + 0	62 + 32.6	12 + 8.2
13 + 0	63 + 11.0	13 + .4	63 + 32.9	13 + 8.9
14 + 0	64 + 20.7	14 + .6	64 + 4.2	14 + 9.5
15 + .1	65 + 28.9	15 + .6	65 + 4.9	15 + 14.7
16 + .2	66 + 19.6	16 + .6	66 + 6.0	16 + 30.4
17 + .2	67 + 12.6	17 + .6	67 + 8.2	17 + 34.6
18 + .1	68 + 17.0	18 + .6	68 + 13.8	18 + 45.7
19 + .1	69 + 26.3	19 + .5	69 + 20.0	19 + 62.8
20 + .1	70 + 22.0	20 + .4	70 + 28.5	20 + .1
21 + .1	71 + 16.2	21 + .4	71 + 30.2	21 + 4.4
22 + .1	72 + 17.8	22 + 1.0	72 + 30.3	22 + 1.5
23 + .1	73 + 25.7	23 + 2.2	73 + 28.3	23 + 1.6
24 + .2	74 + 27.1	24 + 7.0	74 + 7.8	24 + 4.6
25 + 0	75 + 23.5	25 + .1	75 + 8.6	25 + 13.4
26 + 0	76 + 23.8	26 + .3	76 + 10.3	26 + 29.6
27 + 0	77 + 26.1	27 + .5	77 + 11.2	27 + 32.3
28 + 0	78 + 29.6	28 + .8	78 + 12.4	28 + 52.7
29 + .1	79 + 26.7	29 + 1.0	79 + 13.5	29 + 59.9
30 + .3	80 + 25.9	30 + 2.7	80 + 15.6	30 + .1
31 + .3	81 + 27.0	31 + 1.0	81 + 18.8	
32 + .2	82 + 20.4	32 + .9	82 + 20.8	Seq. 5
33 + .1	83 + 20.9	33 + .9	83 + 22.3	
34 + 0	84 + 10.3	34 + .9	84 + 28.2	
35 + 0	85 + 22.2	35 + 1.0	85 + 28.8	
36 + 0	86 + 23.3	36 + 1.9	86 + 29.2	
37 + .1	87 + 27.8	37 + 2.5	87 + 4.2	
38 + .1	88 + 14.7	38 + 3.1	88 + 34.2	
39 + 0	89 + 19.6	39 + 3.7	89 + 21.4	
40 + 0	90 + 12.7	40 + .1	90 + 29.3	
41 + 0	91 + 16.0	41 + .1	91 + 29.7	
42 + 0	92 + 1.7	42 + .1	92 + 5.9	
43 + 0	93 + 27.8	43 + .1	93 + 26.2	
44 + .2	94 + 25.1	44 + .1	94 + 33.2	
45 + .3	95 + 26.6	45 + .1	95 + 27.6	
46 + .1	96 + 28.5	46 + .1	96 + 28.0	
47 + .1	97 + 21.8	47 + .1	97 + 26.9	
48 + .1	98 + 1.4	48 + .1	98 + 27.1	
49 + .1	99 + 1.6	49 + .1	99 + 29.4	
50 + .1	100 + .1	50 + .1	100 + .1	

2078 10 60° .15 0 10.0 +5.0° 1.154 2031.8 .002370

a) 1 + 0	51 + .2	b) 1 + 0	51 + .1	c) 1 + .1
2 + 0	52 + 2.0	2 + 0	52 + 2.0	2 + 4.3
3 - .4	53 + 1.3	3 + 0	53 + 1.0	3 + 3.0
4 - 1.6	54 + 39.5	4 + 0	54 + 13.6	4 + 2.1
5 - 1.7	55 + 34.6	5 + .5	55 + 15.7	5 + 3.7
6 + 0	56 + 33.6	6 + .7	56 + 15.6	6 + 15.9
7 + 0	57 + 34.6	7 + .8	57 + 20.4	7 + 32.8
8 + 0	58 + 34.7	8 + 1.6	58 + 21.0	8 + 37.5
9 + 0	59 + 29.1	9 + 3.4	59 + 21.7	9 + 60.4
10 + 3.2	60 + 29.0	10 + 3.6	60 + 22.5	10 + 83.7
11 - 1.7	61 + 31.1	11 + 16.1	61 + 25.5	11 + 16.2
12 - 1.7	62 + 29.6	12 + .1	62 + 27.4	12 + 13.3
13 + 0	63 + 25.9	13 + .2	63 + 28.7	13 + 13.3
14 + 0	64 + 28.3	14 + 6.1	64 + 4.7	14 + 13.1
15 + 0	65 + 32.5	15 + .2	65 + 4.5	15 + 16.1
16 + 0	66 + 27.9	16 + 0	66 + 5.0	16 + 29.7
17 + 0	67 + 21.6	17 + 0	67 + 13.2	17 + 34.9
18 - 1.4	68 + 29.1	18 + 0	68 + 26.7	18 + 45.8
19 - 1.3	69 + 32.0	19 + 0	69 + 38.6	19 + 63.5
20 - 1	70 + 26.0	20 + 0	70 + 41.1	20 + .1
21 - .1	71 + 25.4	21 + 0	71 + 39.5	21 + 30.0
22 - .1	72 + 31.0	22 + 0	72 + 34.4	22 + 29.8
23 - .1	73 + 32.7	23 + 0	73 + 32.3	23 + 28.9
24 - .1	74 + 25.8	24 + 0	74 + 1.8	24 + 28.9
25 - .9	75 + 25.8	25 + 0	75 + .4	25 + 29.0
26 - .9	76 + 31.9	26 + 0	76 + .4	26 + 32.1
27 + 0	77 + 33.6	27 + 0	77 + .6	27 + 30.1
28 + 0	78 + 22.7	28 + 0	78 + .9	28 + 39.8
29 + 0	79 + 27.1	29 + 0	79 + 7.8	29 + 39.8
30 + 0	80 + 32.9	30 + 0	80 + 35.8	30 + .1
31 + 0	81 + 34.3	31 + 0	81 + 40.2	
32 - 1.3	82 + 29.3	32 + 0	82 + 40.5	Seq. 5
33 - 1.3	83 + 5.0	33 + 0	83 + 39.7	
34 + 0	84 + 13.6	34 + 0	84 + 35.9	
35 + 0	85 + 32.5	35 + 0	85 + 35.8	
36 + 0	86 + 32.9	36 + 0	86 + 35.9	
37 - .1	87 + 33.9	37 + 0	87 + 23.6	
38 - .1	88 + 2.4	38 + 0	88 + 26.5	
39 - 2.3	89 + .9	39 + 0	89 + 20.4	
40 - 2.0	90 + 39.0	40 + 0	90 + 29.9	
41 + 0	91 + 37.5	41 + 0	91 + 33.3	
42 + 0	92 + 2.5	42 + 0	92 + 29.0	
43 - .1	93 + 32.6	43 + 0	93 + 29.0	
44 - .1	94 + 33.7	44 + 0	94 + 27.9	
45 - .1	95 + 34.0	45 + 0	95 + 29.9	
46 - .1	96 + 34.6	46 + 0	96 + 33.4	
47 - .1	97 + 28.6	47 + 0	97 + 33.7	
48 - .1	98 + 2.3	48 + 0	98 + 34.3	
49 - .1	99 + 1.7	49 + 0	99 + 35.0	
50 - .1	100 + .1	50 + 0	100 + .2	

2079 .10 000 .15 0 10.0 +2.50 1.155 2031.8 .002370

a) 1 + 0	51 + .1	b) 1 + 0	51 + .1	c) 1 + .1
2 + 0	52 + 1.7	2 + 0	52 + 1.5	2 + 9.7
3 - .1	53 + .2	3 + 0	53 + 1.1	3 + 8.8
4 - .9	54 +38.0	4 + 0	54 +10.3	4 + 8.2
5 - .9	55 +36.5	5 + 0	55 +14.3	5 + 8.7
6 + 0	56 +34.5	6 + 0	56 +14.5	6 +17.7
7 + 0	57 +35.4	7 + 0	57 +22.1	7 +33.5
8 - .1	58 +35.4	8 + .2	58 +23.9	8 +37.4
9 - .1	59 +30.9	9 + 1.4	59 +25.2	9 +56.3
10 + 3.7	60 +30.8	10 + 1.1	60 +26.0	10 +74.5
11 - .5	61 +32.2	11 +11.1	61 +27.1	11 +22.2
12 - .6	62 +32.3	12 + .1	62 +28.2	12 +18.1
13 + 0	63 +30.7	13 + .2	63 +28.8	13 +18.1
14 + 0	64 +31.0	14 + 4.0	64 + 6.3	14 +16.7
15 + 0	65 +33.5	15 + 1.0	65 + 6.0	15 +20.2
16 + 0	66 +31.4	16 + .8	66 + 8.3	16 +34.0
17 + 0	67 +28.9	17 + .8	67 +17.2	17 +39.0
18 - .9	68 +29.9	18 + .7	68 +26.3	18 +50.4
19 - 1.0	69 +32.7	19 + .7	69 +31.3	19 +66.4
20 - .1	70 +27.8	20 + .6	70 +33.3	20 + .2
21 - .1	71 +27.8	21 + .2	71 +33.6	21 +28.7
22 - .1	72 +30.3	22 + .2	72 +33.4	22 +28.1
23 - .1	73 +33.0	23 + .2	73 +31.6	23 +28.0
24 - .1	74 +29.5	24 + .2	74 + 3.5	24 +28.0
25 - .8	75 +29.5	25 + 0	75 + 2.0	25 +28.3
26 - .9	76 +31.3	26 + 0	76 + 2.0	26 +34.3
27 - .1	77 +33.6	27 + 0	77 + 6.2	27 +34.3
28 - .1	78 +28.2	28 + 0	78 +15.1	28 +46.1
29 - .1	79 +28.3	29 + 0	79 +27.6	29 +49.5
30 - .1	80 +31.3	30 + .5	80 +37.2	30 + .2
31 - .1	81 +33.5	31 + .5	81 +37.6	
32 - 1.1	82 +31.2	32 + 0	82 +37.7	
33 - 1.1	83 +17.1	33 + 0	83 +37.4	
34 - .1	84 +15.3	34 - .1	84 +33.0	
35 - .1	85 +32.4	35 - .1	85 +33.6	
36 - .1	86 +32.9	36 - .1	86 +34.0	
37 - .1	87 +33.6	37 - .1	87 +29.0	
38 - .1	88 + 3.1	38 - .1	88 +29.0	
39 - .7	89 + 8.7	39 - .1	89 +28.8	
40 - .8	90 +37.2	40 - .1	90 +29.6	
41 - .1	91 +34.1	41 - .1	91 +33.0	
42 - .1	92 + 2.8	42 - .1	92 +27.5	
43 - .1	93 +32.5	43 - .1	93 +32.4	
44 - .1	94 +32.9	44 - .1	94 +30.5	
45 - .1	95 +33.1	45 - .1	95 +30.6	
46 - .1	96 +33.6	46 - .1	96 +32.8	
47 - .1	97 +27.2	47 - .1	97 +31.4	
48 - .1	98 + 1.9	48 - .1	98 +33.0	
49 - .1	99 + 1.6	49 - .1	99 +35.1	
50 - .1	100 + .1	50 - .1	100 + .2	

Seq. 5

2080 .10 60° .15 0 10.0 0° 1.155 2031.8 .002370

a) 1 + 0	51 + .2	b) 1 + 0	51 + .2	c) 1 + .2
2 + .4	52 + 3.9	2 + 0	52 + 2.8	2 + 18.9
3 + 0	53 + 2.3	3 + 0	53 + 1.4	3 + 18.4
4 - 1.4	54 + 35.2	4 + 0	54 + 4.8	4 + 17.7
5 - 1.4	55 + 35.3	5 + .1	55 + 7.6	5 + 17.7
6 + 0	56 + 35.9	6 + .1	56 + 7.8	6 + 21.0
7 + .2	57 + 39.5	7 + .1	57 + 17.8	7 + 31.7
8 + .3	58 + 35.9	8 + .1	58 + 25.8	8 + 35.5
9 + .3	59 + 34.5	9 + 3	59 + 31.3	9 + 49.1
10 + 4.5	60 + 34.8	10 + 0	60 + 35.4	10 + 63.4
11 - .8	61 + 36.5	11 + 3.2	61 + 35.7	11 + 24.1
12 - .8	62 + 35.8	12 + 0	62 + 35.8	12 + 22.7
13 + 0	63 + 35.2	13 + .2	63 + 35.7	13 + 22.3
14 + 0	64 + 36.4	14 + 3.9	64 + 6.8	14 + 21.3
15 + .2	65 + 38.3	15 + .2	65 + 7.7	15 + 22.4
16 + .4	66 + 35.5	16 + .1	66 + 12.7	16 + 33.4
17 + .4	67 + 34.7	17 + .3	67 + 22.0	17 + 39.3
18 - 1.0	68 + 35.4	18 + .3	68 + 30.9	18 + 47.9
19 - 1.0	69 + 37.1	19 + .3	69 + 34.4	19 + 63.4
20 + 0	70 + 32.6	20 + .1	70 + 36.3	20 + .1
21 + .1	71 + 32.7	21 + .1	71 + 36.6	21 + 16.4
22 + .2	72 + 34.3	22 + .1	72 + 35.4	22 + 16.0
23 + .2	73 + 36.1	23 + .6	73 + 34.6	23 + 15.3
24 + .3	74 + 35.3	24 + 4.7	74 + 5.6	24 + 15.5
25 - .9	75 + 35.0	25 + 0	75 + 6.0	25 + 17.9
26 - .9	76 + 36.1	26 + .1	76 + 12.3	26 + 30.7
27 + .3	77 + 37.2	27 + .1	77 + 21.0	27 + 32.4
28 + .3	78 + 34.6	28 + .1	78 + 28.1	28 + 48.0
29 + .3	79 + 34.5	29 + .1	79 + 33.4	29 + 53.3
30 + .3	80 + 35.5	30 + .5	80 + 35.8	30 + .1
31 + .4	81 + 37.3	31 + 0	81 + 35.8	
32 - 1.4	82 + 31.0	32 + 0	82 + 35.1	
33 - 1.1	83 + 27.5	33 + 0	83 + 35.1	
34 + .2	84 + 16.3	34 + .1	84 + 35.1	
35 + .2	85 + 34.4	35 + 0	85 + 35.1	
36 + .3	86 + 34.7	36 + 0	86 + 35.5	
37 + .4	87 + 36.1	37 + .6	87 + 26.9	
38 + .4	88 + 7.1	38 + .3	88 + 34.0	
39 - .8	89 + 24.2	39 + .6	89 + 36.9	
40 - .8	90 + 37.4	40 + 0	90 + 35.2	
41 + .1	91 + 35.5	41 + 0	91 + 35.4	
42 + .1	92 + 3.0	42 + 0	92 + 27.0	
43 + .3	93 + 35.7	43 + 0	93 + 36.0	
44 + .4	94 + 35.9	44 + 0	94 + 35.4	
45 + .4	95 + 35.9	45 + 0	95 + 35.2	
46 + 0	96 + 36.2	46 + 0	96 + 35.2	
47 + 0	97 + 28.2	47 + 0	97 + 35.0	
48 + 0	98 + 2.0	48 + 0	98 + 35.2	
49 + 0	99 + 2.0	49 + 0	99 + 35.9	
50 + 0	100 + .1	50 + 0	100 + .2	

Seq. 5

2081 .10 60° .15 0 10.0 -2.5° 1.154 2031.8 .002370

a) 1 - .1	51 + .2	b) 1 + 0	51 + .2	c) 1 + .1
2 + .3	52 + 4.4	2 + .2	52 + 2.5	2 + 30.3
3 + 0	53 + 1.9	3 + .1	53 + 1.9	3 + 30.4
4 - 1.5	54 + 29.6	4 + 0	54 + 2.3	4 + 30.2
5 + 0	55 + 30.8	5 + 0	55 + 2.9	5 + 30.2
6 + 0	56 + 33.5	6 + 0	56 + 2.9	6 + 30.4
7 + 0	57 + 37.9	7 + .1	57 + 4.7	7 + 34.4
8 + 0	58 + 30.6	8 + .1	58 + 11.2	8 + 36.9
9 + .1	59 + 30.6	9 + .1	59 + 23.1	9 + 45.0
10 + .7	60 + 33.1	10 + 0	60 + 32.1	10 + 56.7
11 - 1.1	61 + 35.6	11 + .1	61 + 37.3	11 + 20.0
12 + 0	62 + 32.0	12 - .6	62 + 38.2	12 + 18.9
13 + 0	63 + 31.2	13 + .1	63 + 38.4	13 + 18.7
14 + 0	64 + 32.0	14 + .7	64 + 5.6	14 + 18.1
15 + 0	65 + 36.5	15 + .1	65 + 5.7	15 + 19.3
16 + 0	66 + 33.0	16 + 0	66 + 10.3	16 + 32.6
17 + 0	67 + 29.6	17 + 0	67 + 18.5	17 + 40.7
18 - .6	68 + 31.7	18 + 0	68 + 29.8	18 + 50.6
19 - 7	69 + 34.4	19 + 0	69 + 34.9	19 + 65.9
20 + .3	70 + 33.1	20 + 0	70 + 35.7	20 + .1
21 + .3	71 + 29.2	21 + 0	71 + 35.6	21 + 8.4
22 + .3	72 + 30.3	22 + 0	72 + 35.4	22 + 6.9
23 + .3	73 + 33.9	23 + 1.0	73 + 35.2	23 + 6.2
24 + .3	74 + 34.8	24 + 7.0	74 + 12.9	24 + 7.2
25 - 1.4	75 + 33.7	25 + .2	75 + 13.2	25 + 14.1
26 - 1.7	76 + 33.6	26 + .3	76 + 16.7	26 + 28.9
27 + 0	77 + 34.8	27 + .3	77 + 20.5	27 + 32.9
28 + 0	78 + 36.5	28 + .3	78 + 23.3	28 + 51.7
29 + 0	79 + 35.5	29 + .4	79 + 25.4	29 + 60.3
30 + 0	80 + 35.4	30 + 1.1	80 + 28.6	30 + .1
31 + 0	81 + 35.6	31 + .1	81 + 29.0	
32 - .1	82 + 31.5	32 + 0	82 + 29.4	Seq. 5
33 - .1	83 + 30.7	33 + 0	83 + 30.1	
34 - .1	84 + 14.7	34 + 0	84 + 33.6	
35 - .1	85 + 29.3	35 + 0	85 + 34.2	
36 - .1	86 + 31.0	36 + 0	86 + 34.9	
37 - .1	87 + 34.0	37 + 1.5	87 + 13.3	
38 - .1	88 + 14.7	38 + 2.4	88 + 38.8	
39 + .1	89 + 26.5	39 + 3.6	89 + 38.9	
40 - .1	90 + 27.8	40 + 0	90 + 38.3	
41 - .1	91 + 28.4	41 + 0	91 + 38.3	
42 - .1	92 + 2.8	42 + 0	92 + 20.1	
43 - .1	93 + 34.8	43 + 0	93 + 37.1	
44 - .1	94 + 33.2	44 + 0	94 + 36.3	
45 - .1	95 + 33.4	45 + 0	95 + 35.1	
46 - .1	96 + 34.5	46 + 0	96 + 35.3	
47 - .1	97 + 27.7	47 + 0	97 + 35.2	
48 - .1	98 + 2.2	48 + 0	98 + 35.2	
49 - .1	99 + 2.2	49 + 0	99 + 35.7	
50 + .1	100 + .1	50 + 0	100 + .2	

2082 .10 60° .15 0 10.0 -5.0° 1.154 2031.8 .002370

a) 1 + 0	51 + .1	b) 1 + 0	51 + .1	c) 1 + .2
2 + .2	52 + 2.3	2 + 0	52 + 2.0	2 + 30.9
3 + 0	53 + 1.1	3 + 0	53 + 1.8	3 + 31.0
4 - 2.8	54 + 22.3	4 + 0	54 + 2.1	4 + 31.0
5 - 1.9	55 + 26.1	5 + 0	55 + 2.3	5 + 31.0
6 + .1	56 + 32.7	6 + 0	56 + 1.8	6 + 31.3
7 + .1	57 + 36.0	7 + 0	57 + 2.0	7 + 33.4
8 + 0	58 + 27.7	8 + 0	58 + 1.7	8 + 35.4
9 + .1	59 + 27.3	9 + 0	59 + 2.4	9 + 40.7
10 + .1	60 + 32.1	10 + 0	60 + 15.3	10 + 50.0
11 - 2.7	61 + 34.0	11 - 1.4	61 + 42.7	11 + 16.4
12 - 1.9	62 + 26.9	12 - 1.4	62 + 42.8	12 + 14.7
13 + .1	63 + 25.1	13 + .1	63 + 41.9	13 + 14.6
14 + .1	64 + 30.3	14 + 0	64 + 5.0	14 + 14.6
15 + .1	65 + 34.0	15 + 0	65 + 5.0	15 + 16.7
16 + .1	66 + 28.7	16 + 0	66 + 5.4	16 + 30.5
17 + 0	67 + 23.6	17 + 0	67 + 12.1	17 + 38.8
18 - 1.5	68 + 28.0	18 + 0	68 + 23.7	18 + 45.4
19 - 1.0	69 + 31.5	19 + 0	69 + 34.4	19 + 66.1
20 + 0	70 + 28.3	20 + 0	70 + 35.8	20 + .1
21 + 0	71 + 22.1	21 + 0	71 + 35.7	21 + 4.6
22 + 0	72 + 25.5	22 + 0	72 + 33.0	22 + .4
23 + 0	73 + 29.9	23 + .6	73 + 32.7	23 + .1
24 + 0	74 + 32.7	24 + 6.8	74 + 15.9	24 + 4.5
25 - 1.0	75 + 29.2	25 + 0	75 + 15.6	25 + 15.7
26 - 1.0	76 + 29.6	26 + 0	76 + 16.5	26 + 32.9
27 + 3	77 + 31.5	27 + 0	77 + 18.3	27 + 39.0
28 + 3	78 + 35.5	28 + 0	78 + 20.5	28 + 62.2
29 + .3	79 + 34.2	29 + .4	79 + 21.6	29 + 76.4
30 + .3	80 + 33.9	30 + 4.0	80 + 23.4	30 + .1
31 + .3	81 + 33.9	31 + 0	81 + 26.4	
32 + 0	82 + 30.4	32 + 0	82 + 27.8	Seq. 5
33 + 0	83 + 30.3	33 + 0	83 + 29.2	
34 + 0	84 + 14.4	34 + .1	84 + 31.6	
35 + 0	85 + 23.4	35 + 2	85 + 33.7	
36 + 0	86 + 28.9	36 + .2	86 + 34.7	
37 + 0	87 + 33.0	37 + 1.7	87 + 3.8	
38 + 0	88 + 19.7	38 + 3.4	88 + 37.4	
39 + 0	89 + 19.7	39 + 5.0	89 + 37.7	
40 + 0	90 + 19.5	40 + 0	90 + 36.5	
41 + 0	91 + 24.5	41 + 0	91 + 36.5	
42 + 0	92 + 4.0	42 + 0	92 + 7.7	
43 + 0	93 + 34.4	43 + 0	93 + 46.5	
44 + 0	94 + 34.3	44 + 0	94 + 38.4	
45 + 0	95 + 34.3	45 + 0	95 + 34.4	
46 + 0	96 + 34.4	46 + 0	96 + 35.2	
47 + 0	97 + 29.3	47 + 0	97 + 33.7	
48 + 0	98 + 4.6	48 + 0	98 + 33.7	
49 + 0	99 + 3.7	49 + 0	99 + 35.5	
50 + 0	100 + 1	50 + 0	100 + 2	

2133 .10 60° .10 0 10.0 +5.0° 1.049 2019.8 .002200

a) 1 + 0	51 + .1	b) 1 + 0	51 + .1	c) 1 + .2
2 + 0	52 + 4.4	2 + 0	52 + 3.4	2 + 8.7
3 + 0	53 + 1.2	3 + 0	53 + 1.1	3 + 8.9
4 - .7	54 + 20.2	4 + 0	54 + 9.3	4 + 8.9
5 - .7	55 + 18.3	5 + 0	55 + 10.6	5 + 8.9
6 + .1	56 + 15.9	6 + 0	56 + 8.6	6 + 10.0
7 + .1	57 + 18.8	7 + 0	57 + 13.0	7 + 15.0
8 + .1	58 + 17.1	8 + .1	58 + 13.2	8 + 16.4
9 + .1	59 + 14.1	9 + .5	59 + 13.2	9 + 22.6
10 + 7.6	60 + 14.6	10 + .7	60 + 13.2	10 + 28.9
11 + .1	61 + 15.4	11 + 5.7	61 + 13.3	11 + 10.3
12 + .1	62 + 15.5	12 + 0	62 + 14.4	12 + 9.6
13 + .1	63 + 14.6	13 + 0	63 + 14.7	13 + 9.6
14 + .1	64 + 16.6	14 + 1.9	64 + 2.9	14 + 9.6
15 + .1	65 + 17.6	15 + 0	65 + 3.4	15 + 9.6
16 + .1	66 + 14.0	16 + 0	66 + 5.5	16 + 14.5
17 + .1	67 + 14.1	17 + 0	67 + 13.1	17 + 16.7
18 + .1	68 + 16.0	18 + 0	68 + 16.9	18 + 19.6
19 + .1	69 + 16.2	19 + 0	69 + 19.0	19 + 23.1
20 + .1	70 + 13.1	20 + 0	70 + 15.1	20 + .1
21 + .1	71 + 14.5	21 + 0	71 + 14.8	21 + 11.1
22 + .1	72 + 15.1	22 + 0	72 + 14.4	22 + 11.5
23 + .1	73 + 15.8	23 + 0	73 + 14.4	23 + 11.6
24 + 0	74 + 14.8	24 + 0	74 + .9	24 + 11.7
25 + 0	75 + 15.8	25 + 0	75 + 1.0	25 + 11.8
26 + 0	76 + 16.9	26 + 0	76 + 1.1	26 + 12.6
27 + 0	77 + 17.1	27 + 0	77 + 1.3	27 + 12.5
28 + 0	78 + 14.3	28 + 0	78 + 5.3	28 + 14.1
29 + 0	79 + 16.6	29 + 0	79 + 18.6	29 + 14.3
30 + 0	80 + 16.8	30 + 0	80 + 18.3	30 + .1
31 + 0	81 + 16.8	31 + 0	81 + 16.5	
32 - 1.2	82 + 14.6	32 + 0	82 + 16.7	Seq. 5
33 + .1	83 + 6.6	33 + 0	83 + 16.8	
34 + .1	84 + 7.2	34 + 0	84 + 15.6	
35 + .1	85 + 16.3	35 + 0	85 + 15.8	
36 + .1	86 + 16.3	36 + 0	86 + 15.9	
37 + .1	87 + 16.5	37 + 0	87 + 11.8	
38 + .1	88 + 2.6	38 + 0	88 + 15.1	
39 - .9	89 + 2.3	39 + 0	89 + 12.5	
40 - .9	90 + 19.2	40 + 0	90 + 14.2	
41 + .1	91 + 15.9	41 + 0	91 + 15.1	
42 + 0	92 + 1.9	42 + 0	92 + 14.8	
43 + 0	93 + 15.1	43 + 0	93 + 13.4	
44 + 0	94 + 16.3	44 + 0	94 + 13.4	
45 + 0	95 + 16.4	45 + 0	95 + 13.9	
46 + 0	96 + 16.4	46 + 0	96 + 15.0	
47 + 0	97 + 12.3	47 + 0	97 + 15.3	
48 + 0	98 + 1.6	48 + 0	98 + 16.5	
49 + 0	99 + 2.1	49 + 0	99 + 16.9	
50 + 0	100 + .1	50 + 0	100 + .2	

2134 .10 60° .10 0 10.0 +2.5° 1.049 2019.8 .002200

a) 1 - .1	51 + .1	b) 1 - .1	51 + .1	c) 1 + .1
2 - .1	52 + 3.8	2 - .1	52 + 4.1	2 + 8.9
3 - .1	53 + 1.5	3 - .1	53 + 1.0	3 + 8.8
4 - .1	54 + 21.3	4 - .1	54 + 6.4	4 + 8.8
5 - .1	55 + 19.8	5 - .1	55 + 10.2	5 + 8.8
6 - .1	56 + 17.7	6 - .1	56 + 9.2	6 + 10.0
7 - .1	57 + 19.9	7 - .1	57 + 14.4	7 + 15.2
8 - .1	58 + 18.1	8 - .1	58 + 15.0	8 + 16.4
9 - .1	59 + 17.0	9 - .1	59 + 15.3	9 + 20.9
10 + 1.9	60 + 16.9	10 + 0	60 + 15.6	10 + 26.7
11 - .1	61 + 17.0	11 + 3.4	61 + 15.9	11 + 12.8
12 - .1	62 + 17.2	12 - .1	62 + 15.9	12 + 12.3
13 - .1	63 + 17.3	13 - .1	63 + 17.3	13 + 12.3
14 - .1	64 + 18.4	14 + 1.4	64 + 4.5	14 + 11.9
15 - .1	65 + 19.2	15 - .1	65 + 4.6	15 + 11.8
16 - .1	66 + 16.8	16 - .1	66 + 7.9	16 + 16.5
17 - .1	67 + 16.4	17 - .1	67 + 13.1	17 + 17.7
18 - .1	68 + 17.0	18 - .1	68 + 15.7	18 + 20.8
19 - .1	69 + 17.5	19 - .1	69 + 16.5	19 + 24.6
20 - .1	70 + 16.3	20 - .1	70 + 16.6	20 + .1
21 - .1	71 + 16.2	21 - .1	71 + 16.7	21 + 10.7
22 - .1	72 + 16.8	22 - .1	72 + 16.5	22 + 11.5
23 - .1	73 + 17.1	23 - .1	73 + 16.4	23 + 11.7
24 - .1	74 + 16.9	24 - .1	74 + 2.0	24 + 11.7
25 - .1	75 + 17.0	25 - .1	75 + 2.0	25 + 11.9
26 - .1	76 + 17.8	26 - .1	76 + 2.2	26 + 13.3
27 - .1	77 + 18.0	27 - .1	77 + 6.7	27 + 13.6
28 - .1	78 + 15.4	28 + 0	78 + 14.7	28 + 15.2
29 - .1	79 + 17.0	29 + 0	79 + 16.9	29 + 17.4
30 - .1	80 + 17.5	30 + 0	80 + 18.0	30 + .1
31 - .1	81 + 17.8	31 + 0	81 + 18.2	
32 - 1.0	82 + 16.9	32 + 0	82 + 18.4	Seq. 5
33 + 0	83 + 14.2	33 + 0	83 + 18.4	
34 + 0	84 + 6.8	34 + 0	84 + 17.6	
35 + 0	85 + 16.6	35 + 0	85 + 17.6	
36 + 0	86 + 17.1	36 + 0	86 + 17.6	
37 - .1	87 + 17.5	37 + 0	87 + 14.6	
38 - .1	88 + 3.0	38 + 0	88 + 17.4	
39 - 1.7	89 + 10.2	39 + 0	89 + 15.0	
40 - 1.2	90 + 17.5	40 + 0	90 + 15.6	
41 - .1	91 + 17.5	41 + 0	91 + 16.4	
42 - .1	92 + 1.8	42 + 0	92 + 15.3	
43 - .1	93 + 17.1	43 + 0	93 + 15.9	
44 - .1	94 + 17.3	44 + 0	94 + 15.6	
45 - .1	95 + 17.3	45 + 0	95 + 15.6	
46 - .1	96 + 17.3	46 + 0	96 + 16.1	
47 - .1	97 + 12.9	47 + 0	97 + 16.3	
48 - .1	98 + 1.4	48 + 0	98 + 17.2	
49 - .1	99 + 1.9	49 + 0	99 + 17.9	
50 - .1	100 + .1	50 + 0	100 + .2	

2135 .10 60° .10 0 10.0 0° 1.049 2019.8 .002200

a)1 + .1	51 + .2	b)1 0	51 .1	c)1 .2
2 + .1	52 + 3.6	2 0	52 3.9	2 +10.8
3 + .1	53 + 1.4	3 0	53 + 2.2	3 +11.0
4 - .8	54 +18.9	4 0	54 + 4.5	4 +11.1
5 - .8	55 +19.5	5 0	55 + 5.9	5 +11.2
6 + .2	56 +19.1	6 0	56 + 6.0	6 +11.8
7 + .2	57 +20.2	7 0	57 +12.6	7 +15.4
8 + .2	58 +17.8	8 0	58 +15.3	8 +17.4
9 + .2	59 +17.9	9 0	59 +16.7	9 +20.9
10 + .6	60 +17.9	10 0	60 +17.3	10 +25.3
11 - .2	61 +17.9	11 + .8	61 +17.5	11 +14.3
12 + 0	62 +17.9	12 + .1	62 +17.7	12 +14.0
13 + 0	63 +17.8	13 + .1	63 +17.8	13 +14.0
14 + 0	64 +18.9	14 + .7	64 + 4.3	14 +13.7
15 + 0	65 +19.4	15 0	65 + 5.1	15 +13.7
16 + 0	66 +18.6	16 0	66 + 8.8	16 +17.7
17 + 0	67 +18.0	17 0	67 +12.8	17 +20.4
18 + 0	68 +17.9	18 0	68 +16.3	18 +22.1
19 + 0	69 +18.0	19 0	69 +17.0	19 +26.3
20 + 0	70 +17.6	20 0	70 +17.8	20 + .1
21 + 0	71 +17.5	21 0	71 +17.7	21 +11.7
22 + 0	72 +17.5	22 0	72 +17.6	22 +11.2
23 + .1	73 +17.5	23 0	73 +17.6	23 +11.2
24 + .1	74 +17.5	24 + .7	74 + 3.4	24 +11.2
25 + .1	75 +17.5	25 + .1	75 + 3.5	25 +11.5
26 + .1	76 +18.0	26 + .2	76 + 6.7	26 +14.2
27 + .1	77 +18.2	27 + .1	77 +12.5	27 +14.8
28 + .1	78 +17.3	28 + .1	78 +15.4	28 +19.1
29 + .1	79 +17.3	29 + .1	79 +17.5	29 +20.3
30 + .1	80 +17.5	30 + .1	80 +17.9	30 + .1
31 + .1	81 +17.7	31 + .1	81 +18.1	
32 + .1	82 +17.0	32 + .1	82 +18.1	Seq. 5
33 + 2.7	83 +13.7	33 + .1	83 +18.1	
34 + .1	84 + 6.3	34 0	84 +18.1	
35 + .1	85 +16.6	35 + .1	85 +18.1	
36 + .1	86 +17.2	36 + .1	86 +18.1	
37 + .2	87 +17.6	37 0	87 +14.9	
38 + .2	88 + 4.2	38 0	88 +18.2	
39 + .2	89 +13.2	39 + .1	89 +18.4	
40 + .2	90 +16.7	40 0	90 +18.1	
41 + .2	91 +16.9	41 + .1	91 +18.1	
42 + .2	92 + 1.7	42 + 0	92 +15.5	
43 + .2	93 +16.9	43 + 0	93 +16.9	
44 + .2	94 +16.9	44 + 0	94 +17.1	
45 + .2	95 +16.9	45 + 0	95 +17.1	
46 + .2	96 +17.0	46 + 0	96 +17.2	
47 + .2	97 +13.6	47 + 0	97 +17.4	
48 + .2	98 + 1.5	48 + 0	98 +17.9	
49 + .2	99 + 1.7	49 + 0	99 +18.5	
50 + .2	100 + .1	50 + 0	100 + .2	

2136 .10 60° .10 0 10.0 -2.5° 1.049 2019.8 .002200

a) 1 - .1	51 + .1	b) 1 + 0	51 + .2	c) 1 + .2
2 - .1	52 + 2.9	2 + 0	52 + 3.0	2 + 13.7
3 - .1	53 + 1.4	3 + 0	53 + 1.7	3 + 13.5
4 - 2.2	54 + 18.2	4 + 0	54 + 2.7	4 + 13.8
5 - 1.6	55 + 19.2	5 + 0	55 + 3.3	5 + 14.1
6 + 0	56 + 18.3	6 + 0	56 + 2.6	6 + 14.4
7 - .1	57 + 19.3	7 + 0	57 + 5.5	7 + 16.2
8 - .1	58 + 17.2	8 + 0	58 + 12.8	8 + 17.0
9 - .1	59 + 17.2	9 + 0	59 + 15.8	9 + 19.3
10 - .1	60 + 17.2	10 + 0	60 + 16.7	10 + 22.0
11 - 1.0	61 + 17.2	11 + 0	61 + 17.3	11 + 13.1
12 - 1.0	62 + 16.8	12 + 0	62 + 17.6	12 + 12.1
13 + 0	63 + 16.8	13 + 0	63 + 17.8	13 + 11.9
14 + 0	64 + 17.7	14 + 0	64 + 4.1	14 + 11.9
15 - .1	65 + 18.3	15 + 0	65 + 4.4	15 + 12.0
16 - .1	66 + 18.0	16 + 0	66 + 7.7	16 + 16.2
17 - .1	67 + 17.1	17 + 0	67 + 12.2	17 + 18.3
18 - .8	68 + 17.1	18 + 0	68 + 16.2	18 + 21.1
19 - .8	69 + 17.1	19 + 0	69 + 16.5	19 + 25.4
20 - .1	70 + 14.0	20 + 0	70 + 16.5	20 + .4
21 - .1	71 + 14.3	21 + 0	71 + 16.5	21 + 7.9
22 - .1	72 + 15.3	22 + 0	72 + 16.4	22 + 8.2
23 - .1	73 + 15.8	23 + 0	73 + 16.4	23 + 8.2
24 - .1	74 + 16.3	24 + 1.5	74 + 5.4	24 + 8.2
25 - .9	75 + 16.5	25 + .5	75 + 6.4	25 + 9.2
26 - .9	76 + 16.6	26 + .5	76 + 9.3	26 + 13.9
27 + 0	77 + 16.8	27 + .5	77 + 12.9	27 + 15.0
28 + 0	78 + 16.9	28 + .5	78 + 13.8	28 + 20.9
29 + 0	79 + 17.0	29 + .5	79 + 14.8	29 + 22.2
30 + 0	80 + 17.0	30 + .5	80 + 15.3	30 + .1
31 - .1	81 + 17.0	31 + .5	81 + 15.6	
32 - .1	82 + 16.1	32 + .5	82 + 15.8	
33 - .1	83 + 15.2	33 + .5	83 + 16.0	
34 - .1	84 + 6.1	34 + .5	84 + 16.1	
35 - .1	85 + 14.6	35 + .5	85 + 16.3	
36 - .1	86 + 15.7	36 + .4	86 + 16.6	
37 - .1	87 + 16.4	37 + .4	87 + 12.9	
38 - .1	88 + 6.7	38 + .4	88 + 17.4	
39 - .1	89 + 12.9	39 + .4	89 + 17.7	
40 - .1	90 + 14.4	40 + 0	90 + 17.6	
41 - .1	91 + 15.1	41 + 0	91 + 17.6	
42 - .1	92 + 1.9	42 + 0	92 + 14.6	
43 - .1	93 + 15.7	43 + 0	93 + 15.8	
44 - .1	94 + 16.0	44 + 0	94 + 15.6	
45 - .1	95 + 16.0	45 + 0	95 + 15.9	
46 - .1	96 + 16.0	46 + 0	96 + 16.0	
47 - .1	97 + 12.6	47 + 0	97 + 16.1	
48 - .1	98 + 1.6	48 + 0	98 + 16.7	
49 - .1	99 + 1.6	49 + 0	99 + 17.5	
50 - .1	100 + .1	50 + 0	100 + .1	

Seq. 5

2137 .10 60° .10 0 10.0 -5.0° 1.049 2019.8 .002200

a)1 - .1	51 .1	b)1 0	51 .1	c)1 .1
2 - .1	52 3.3	2 0	52 2.8	2 12.0
3 - .1	53 1.0	3 0	53 2.0	3 12.3
4 - 1.9	54 16.6	4 0	54 2.8	4 12.3
5 - 1.3	55 18.1	5 0	55 3.1	5 12.4
6 + 0	56 18.2	6 0	56 2.2	6 12.5
7 + 0	57 18.5	7 0	57 2.4	7 13.4
8 + 0	58 15.8	8 0	58 2.8	8 14.3
9 + 0	59 15.8	9 0	59 14.1	9 16.1
10 + .1	60 15.8	10 0	60 17.8	10 17.8
11 - 2.0	61 15.9	11 .5	61 17.4	11 9.4
12 - 1.2	62 14.7	12 .1	62 17.4	12 9.0
13 + 0	63 14.8	13 .1	63 17.4	13 9.0
14 + 0	64 16.6	14 .1	64 4.5	14 9.0
15 + 0	65 17.3	15 .1	65 4.4	15 9.4
16 + 0	66 15.3	16 .1	66 4.8	16 13.9
17 + 0	67 15.3	17 .1	67 10.7	17 15.8
18 - 2.0	68 15.3	18 .1	68 15.9	18 18.1
19 - 1.2	69 15.4	19 .1	69 16.4	19 22.3
20 - .6	70 13.4	20 .1	70 15.7	20 .1
21 - .6	71 13.4	21 .1	71 15.6	21 5.8
22 - .5	72 13.0	22 .1	72 15.4	22 6.3
23 - .5	73 14.4	23 .1	73 15.4	23 6.2
24 - .5	74 16.2	24 3.5	74 6.7	24 6.4
25 - .8	75 15.9	25 0	75 7.7	25 8.0
26 - .7	76 16.7	26 0	76 9.2	26 12.7
27 .1	77 15.8	27 0	77 10.6	27 14.1
28 .1	78 16.8	28 0	78 11.5	28 20.0
29 .1	79 16.2	29 0	79 12.3	29 22.8
30 .1	80 16.2	30 .1	80 12.8	30 .1
31 .1	81 16.2	31 .1	81 13.3	
32 0	82 15.6	32 .1	82 13.7	Seq. 5
33 0	83 15.6	33 .1	83 14.1	
34 0	84 6.7	34 0	84 14.6	
35 0	85 13.3	35 0	85 15.0	
36 0	86 14.4	36 0	86 15.3	
37 0	87 15.6	37 .3	87 3.9	
38 0	88 9.3	38 .5	88 15.6	
39 0	89 10.4	39 1.2	89 16.6	
40 0	90 11.1	40 0	90 14.9	
41 + 0	91 13.0	41 0	91 15.0	
42 + 0	92 2.7	42 0	92 8.4	
43 + 0	93 14.6	43 0	93 17.3	
44 + 0	94 14.8	44 0	94 14.3	
45 + 0	95 14.9	45 0	95 14.3	
46 + 0	96 15.0	46 0	96 14.7	
47 + 0	97 13.0	47 0	97 14.8	
48 + 0	98 2.2	48 0	98 14.9	
49 + 0	99 2.2	49 0	99 15.5	
50 + 0	100 .1	50 0	100 .1	

2178 .10 60° .05 0 10.0 2.5° 1.049 2021.2 .002235

a)1	.1	51	.1	b)1	0	51	.2	c)1	.1
2	.1	52	3.7	2	0	52	3.7	2	26.8
3	0	53	1.7	3	0	53	.6	3	26.9
4	-1.6	54	34.9	4	0	54	7.7	4	26.9
5	-1.2	55	33.8	5	0	55	13.5	5	26.9
6	+.4	56	32.2	6	0	56	13.7	6	27.6
7	.5	57	33.5	7	0	57	26.1	7	29.7
8	+.5	58	33.0	8	0	58	29.6	8	31.6
9	+.5	59	32.3	9	.2	59	31.1	9	35.9
10	5.3	60	32.3	10	.1	60	31.1	10	39.4
11	-.6	61	32.5	11	4.4	61	31.1	11	29.1
12	-.7	62	32.0	12	0	62	31.5	12	28.4
13	+.2	63	32.3	13	0	63	31.8	13	28.4
14	+.2	64	33.0	14	2.1	64	3.7	14	27.2
15	+.2	65	33.3	15	0	65	4.2	15	27.2
16	+.2	66	32.1	16	0	66	14.4	16	30.4
17	+.2	67	32.1	17	0	67	30.7	17	32.5
18	-1.6	68	32.1	18	0	68	32.4	18	33.9
19	-1.0	69	32.2	19	0	69	32.4	19	38.0
20	.1	70	31.3	20	0	70	30.9	20	.1
21	.1	71	31.3	21	0	71	30.7	21	31.0
22	.1	72	31.4	22	0	72	30.7	22	27.1
23	.1	73	31.4	23	0	73	30.7	23	25.9
24	.1	74	31.6	24	.5	74	1.5	24	26.2
25	-1.7	75	31.9	25	.1	75	.2	25	26.3
26	.1	76	33.0	26	.1	76	.8	26	33.5
27	.2	77	33.0	27	.1	77	18.6	27	26.5
28	.2	78	32.4	28	.1	78	33.7	28	33.9
29	.2	79	32.4	29	.1	79	33.3	29	28.9
30	.2	80	32.5	30	.1	80	32.9	30	.2
31	.3	81	32.5	31	.1	81	32.1		
32	-2.8	82	30.5	32	.1	82	32.4		
33	.1	83	32.6	33	.1	83	32.6		
34	.1	84	13.7	34	.1	84	31.0		
35	.1	85	32.8	35	.1	85	31.6		
36	.2	86	32.2	36	.1	86	31.8		
37	.2	87	33.3	37	.1	87	27.8		
38	.2	88	2.4	38	.1	88	31.8		
39	-3.5	89	29.9	39	.1	89	30.3		
40	.1	90	31.3	40	.1	90	30.8		
41	.1	91	31.4	41	.1	91	31.1		
42	.1	92	3.7	42	.1	92	28.5		
43	.1	93	31.5	43	.1	93	30.9		
44	.1	94	31.6	44	.1	94	30.8		
45	.1	95	29.8	45	.1	95	30.9		
46	.1	96	30.9	46	.1	96	31.0		
47	.1	97	24.0	47	.1	97	31.1		
48	.1	98	1.7	48	.1	98	32.3		
49	.1	99	2.1	49	.1	99	32.6		
50	.1	100	.1	50	.1	100	.2		

Seq. 5

2179 .10 60° .05 0 10.0 0° 1.050 2021.2 .002235

a)1 + .1	51 + .2	b)1 - .1	51 + .2	c)1 + .2
2 + .1	52 + 3.5	2 - .1	52 + 2.8	2 +28.0
3 + .2	53 + .5	3 - .1	53 + .2	3 +28.6
4 - 2.8	54 +35.3	4 - .1	54 + 3.1	4 +29.0
5 - 1.5	55 +36.5	5 - .1	55 + 4.7	5 +29.3
6 - .3	56 +34.7	6 - .1	56 + 5.7	6 +29.7
7 - .3	57 +36.7	7 - .1	57 +24.4	7 +33.5
8 - .3	58 +34.8	8 - .1	58 +31.9	8 +34.4
9 - .3	59 +34.7	9 - .1	59 +32.3	9 +36.9
10 + 2.0	60 +34.7	10 - .1	60 +32.6	10 +40.1
11 - 2.0	61 +34.4	11 - .1	61 +32.8	11 +30.7
12 - 1.0	62 +34.5	12 - .1	62 +33.2	12 +30.0
13 + .1	63 +34.5	13 - .1	63 +33.7	13 +30.1
14 + .1	64 +36.4	14 - .1	64 + 4.2	14 +29.2
15 + .1	65 +36.5	15 + 0	65 + 4.8	15 +29.2
16 + .1	66 +35.9	16 + 0	66 +15.3	16 +34.1
17 + .1	67 +35.2	17 + 0	67 +28.9	17 +35.2
18 - 1.9	68 +35.2	18 + 0	68 +32.5	18 +36.9
19 - 1.2	69 +35.2	19 + 0	69 +32.8	19 +40.8
20 - .1	70 +32.9	20 + 0	70 +32.9	20 + .2
21 - .1	71 +33.2	21 + 0	71 +32.9	21 +29.0
22 - .1	72 +33.6	22 + 0	72 +33.0	22 +26.8
23 - .1	73 +33.8	23 + 0	73 +33.2	23 +27.0
24 - .1	74 +34.0	24 + .4	74 + 3.0	24 +27.2
25 - 2.2	75 +34.5	25 - .1	75 + 3.0	25 +27.2
26 + .2	76 +34.9	26 - .1	76 +13.6	26 +32.4
27 + .3	77 +35.0	27 + 0	77 +27.5	27 +26.7
28 + .3	78 +34.0	28 + 0	78 +31.0	28 +36.9
29 + .3	79 +34.1	29 + 0	79 +32.6	29 +35.8
30 + .3	80 +34.5	30 + 0	80 +32.9	30 + .1
31 + .3	81 +34.7	31 + 0	81 +33.1	
32 - 1.8	82 +32.5	32 + 0	82 +33.6	
33 + .1	83 +31.5	33 + 0	83 +30.0	
34 + .1	84 +16.0	34 + 0	84 +34.0	
35 + .1	85 +33.9	35 + 0	85 +34.0	
36 + .1	86 +34.1	36 - .6	86 +34.1	
37 + .1	87 +34.5	37 + 0	87 +32.3	
38 + .1	88 + 4.4	38 - .1	88 +34.4	
39 - 1.9	89 +30.1	39 - .1	89 +34.3	
40 - .1	90 +33.0	40 - .1	90 +34.3	
41 - .1	91 +33.4	41 - .1	91 +34.3	
42 - .1	92 + 3.7	42 - .1	92 +30.6	
43 - .1	93 +34.3	43 - .1	93 +32.0	
44 + .2	94 +34.4	44 - .1	94 +32.7	
45 + .2	95 +33.7	45 - .1	95 +33.0	
46 + .2	96 +33.8	46 - .1	96 +33.3	
47 + .3	97 +27.1	47 - .1	97 +33.5	
48 + .3	98 + 2.5	48 - .1	98 +34.2	
49 + .3	99 + 2.5	49 - .1	99 +34.7	
50 + .3	100 + .1	50 - .1	100 + .2	

Seq. 5

2180 .10 60° .05 0 10.0 -2.5° 1.048 2021.2 .002235

a)1 + 0	51 + .2	b)1 - .1	51 + .1	c)1 + .1
2 + 0	52 + 2.4	2 - .1	52 + 2.6	2 +26.5
3 + 0	53 + .5	3 - .1	53 + .2	3 +26.4
4 - 4.9	54 +31.9	4 - .1	54 + 2.2	4 +26.4
5 - 1.8	55 +32.7	5 - .1	55 + 1.8	5 +26.4
6 + .1	56 +32.8	6 - .1	56 + 1.1	6 +28.8
7 + .1	57 +32.8	7 - .1	57 + 4.9	7 +29.0
8 + .1	58 +32.1	8 - .1	58 +32.2	8 +29.6
9 + .1	59 +32.0	9 - .1	59 +32.4	9 +37.3
10 + .2	60 +32.0	10 - .1	60 +32.4	10 +37.3
11 - 3.8	61 +31.9	11 - 1.4	61 +32.3	11 +26.6
12 - 1.7	62 +31.3	12 + 0	62 +32.3	12 +23.6
13 + .1	63 +31.3	13 + 0	63 +32.3	13 +23.6
14 + 0	64 +31.8	14 - .9	64 + 4.4	14 +23.2
15 + 0	65 +32.2	15 - .1	65 + 4.5	15 +24.4
16 + 0	66 +31.8	16 - .1	66 +13.8	16 +31.2
17 + 0	67 +31.7	17 - .1	67 +29.7	17 +31.4
18 - 2.9	68 +31.7	18 - .1	68 +30.3	18 +32.9
19 - 1.9	69 +31.7	19 - .1	69 +30.5	19 +37.0
20 + .1	70 +30.6	20 - .1	70 +30.5	20 + .2
21 + .1	71 +30.6	21 - .1	71 +30.5	21 +26.8
22 + 0	72 +30.5	22 - .1	72 +30.5	22 +26.2
23 + 0	73 +30.5	23 - .1	73 +30.5	23 +25.7
24 + 0	74 +30.7	24 + 2.1	74 + 6.5	24 +25.8
25 - 1.9	75 +30.8	25 - .1	75 + 9.4	25 +26.0
26 - 1.6	76 +30.9	26 - .1	76 +19.3	26 +30.4
27 + .1	77 +31.0	27 - .1	77 +25.6	27 +26.6
28 + .1	78 +32.0	28 - .1	78 +28.1	28 +35.3
29 + .1	79 +31.0	29 - .1	79 +29.0	29 +32.2
30 + .1	80 +31.0	30 - .1	80 +29.8	30 + .1
31 + .1	81 +30.9	31 - .1	81 +30.1	
32 - 2.2	82 +29.8	32 - .4	82 +30.4	Seq. 5
33 - 1.7	83 +29.5	33 + 0	83 +30.8	
34 - 1.3	84 +12.6	34 + 0	84 +30.9	
35 - 1.1	85 +29.7	35 + 0	85 +31.0	
36 + 0	86 +29.9	36 - 1.2	86 +31.1	
37 + 0	87 +30.2	37 + .1	87 +31.3	
38 + 0	88 + 7.8	38 + .1	88 +31.9	
39 - 1.6	89 +26.1	39 - .2	89 +32.0	
40 - 1.6	90 +28.0	40 - .1	90 +31.9	
41 + .1	91 +29.1	41 - .1	91 +31.9	
42 + .1	92 + 3.7	42 - .1	92 +31.9	
43 + .1	93 +30.3	43 - .1	93 +31.8	
44 + .1	94 +30.3	44 - .1	94 +31.8	
45 + .1	95 +29.5	45 - .1	95 +31.8	
46 + .1	96 +30.0	46 - .1	96 +31.8	
47 + .1	97 +24.2	47 - .1	97 +30.8	
48 + .1	98 + 2.8	48 - .1	98 +31.8	
49 + .1	99 + 2.7	49 - .1	99 +32.0	
50 + .1	100 + .1	50 - .1	100 + .2	

2211 .10 60° .03 0 10.0 -2.5° 1.049 2021.9 .002236

a) 1 + 0	51 + .1	b) 1 + 0	51 + .2	c) 1 + .2
2 + 0	52 + 3.7	2 + 0	52 + 3.5	2 + 41.4
3 + 0	53 + .6	3 + 0	53 + .5	3 + 42.5
4 - 8.2	54 + 43.7	4 + 0	54 + 1.9	4 + 42.3
5 + .1	55 + 46.7	5 - .1	55 + .1	5 + 42.3
6 + .1	56 + 45.8	6 - .1	56 - 1.6	6 + 42.3
7 + .1	57 + 46.9	7 - .1	57 - 7.6	7 + 44.3
8 + .1	58 + 42.8	8 - .1	58 + 47.8	8 + 45.5
9 + .1	59 + 44.3	9 - .1	59 + 45.7	9 + 47.9
10 + 3.2	60 + 44.5	10 - .1	60 + 45.4	10 + 49.6
11 - 7.8	61 + 44.7	11 - 3.5	61 + 42.8	11 + 45.0
12 + 0	62 + 43.7	12 + .1	62 + 44.2	12 + 44.7
13 + 0	63 + 44.6	13 + .1	63 + 44.5	13 + 44.7
14 + 0	64 + 46.3	14 - 2.2	64 + 2.6	14 + 42.8
15 + 0	65 + 46.6	15 + 0	65 + 2.7	15 + 42.8
16 + 0	66 + 44.5	16 + 0	66 + 16.6	16 + 46.8
17 + 0	67 + 44.7	17 + 0	67 + 43.6	17 + 48.0
18 - 6.0	68 + 45.0	18 + 0	68 + 43.9	18 + 49.6
19 - 1.5	69 + 45.1	19 + 0	69 + 43.4	19 + 52.0
20 + .1	70 + 44.0	20 + 0	70 + 43.4	20 + .4
21 + .1	71 + 44.0	21 + 0	71 + 43.4	21 + 45.4
22 + .1	72 + 44.0	22 + 0	72 + 43.4	22 + 45.9
23 + .1	73 + 44.0	23 + .2	73 + 43.4	23 + 46.0
24 + .1	74 + 45.0	24 + 1.8	74 + 5.4	24 + 46.0
25 - 3.3	75 + 45.2	25 + .4	75 + 11.6	25 + 45.5
26 - 1.3	76 + 45.3	26 + .4	76 + 27.6	26 + 46.5
27 - 1.2	77 + 45.4	27 + .4	77 + 37.9	27 + 44.6
28 + 0	78 + 45.4	28 + .5	78 + 40.7	28 + 49.7
29 + 0	79 + 45.3	29 + .5	79 + 42.4	29 + 48.1
30 + 0	80 + 45.3	30 + .5	80 + 43.0	30 + .2
31 + 0	81 + 45.3	31 + .5	81 + 43.2	
32 - 2.6	82 + 42.1	32 + .1	82 + 3.5	Seq. 5
33 - 1.8	83 + 43.2	33 + .1	83 + 43.7	
34 - 1.5	84 + 20.5	34 + .1	84 + 43.8	
35 + 0	85 + 44.1	35 - .3	85 + 44.0	
36 + 0	86 + 44.3	36 - 1.2	86 + 44.1	
37 + 0	87 + 44.8	37 - 1.3	87 + 46.5	
38 + 0	88 + 7.3	38 + .7	88 + 46.6	
39 - 2.4	89 + 40.5	39 + .7	89 + 42.9	
40 - 1.8	90 + 43.1	40 + .7	90 + 43.3	
41 - 1.2	91 + 44.0	41 + 0	91 + 43.7	
42 + 0	92 + 4.7	42 + 0	92 + 47.1	
43 + 0	93 + 44.5	43 + 0	93 + 41.9	
44 + 0	94 + 44.6	44 + 0	94 + 42.7	
45 + 0	95 + 41.9	45 + 0	95 + 43.1	
46 + 0	96 + 44.0	46 + 0	96 + 43.3	
47 + 0	97 + 34.1	47 - .1	97 + 43.5	
48 + 0	98 + 2.3	48 - .1	98 + 44.3	
49 + 0	99 + 2.5	49 - .1	99 + 45.0	
50 + 0	100 + .1	50 - .1	100 + .1	

2212 .10 60° .03 0 10.0 0° 1.049 2021.9 .002236

a)1 + 0	51 + .2	b)1 + 0	51 + .1	c)1 + .2
2 + 0	52 + 3.0	2 + .2	52 + 3.2	2 +47.0
3 + 0	53 + 1.3	3 + .2	53 + 1.0	3 +46.6
4 - 3.7	54 +48.1	4 + .2	54 + 2.4	4 +45.9
5 - 1.6	55 +48.7	5 + .2	55 + 3.5	5 +46.0
6 - 1.0	56 +48.4	6 + .2	56 + 4.5	6 +46.8
7 + .1	57 +49.0	7 + .2	57 +34.5	7 +48.6
8 + .1	58 +47.2	8 + .2	58 +44.4	8 +49.6
9 + .1	59 +47.2	9 + .2	59 +44.7	9 +51.7
10 + 1.9	60 +47.2	10 + .2	60 +45.2	10 +53.9
11 - 4.1	61 +47.2	11 - 1.5	61 +45.7	11 +46.9
12 - 1.3	62 +47.3	12 + 0	62 +46.8	12 +47.0
13 + .1	63 +47.3	13 + 0	63 +47.4	13 +46.8
14 + .1	64 +48.3	14 - 1.3	64 + 3.2	14 +45.6
15 + .1	65 +48.7	15 + 0	65 + 3.2	15 +45.8
16 + .1	66 +48.5	16 + 0	66 +18.4	16 +49.0
17 + .1	67 +47.9	17 - .1	67 +41.5	17 +50.2
18 - 3.8	68 +47.8	18 - .1	68 +44.4	18 +51.6
19 - 1.3	69 +47.8	19 - .1	69 +44.9	19 +54.5
20 + .1	70 +46.1	20 - .1	70 +45.3	20 + .1
21 + .1	71 +46.1	21 - .1	71 +45.7	21 +45.8
22 + .1	72 +46.3	22 - .1	72 +45.9	22 +45.7
23 + .1	73 +46.6	23 - .1	73 +46.2	23 +45.8
24 + .1	74 +47.0	24 - .1	74 + 2.6	24 +45.8
25 - 3.5	75 +47.4	25 - .1	75 + 2.1	25 +45.5
26 - 1.0	76 +47.8	26 - .1	76 +13.0	26 +48.3
27 - .8	77 +48.0	27 - .1	77 +39.5	27 +41.7
28 - .6	78 +46.7	28 - .1	78 +43.6	28 +50.8
29 - .5	79 +47.1	29 - .1	79 +44.8	29 +44.3
30 - .	80 +47.4	30 - .1	80 +45.7	30 + .1
31 - .3	81 +47.6	31 - .1	81 +46.2	
32 - 4.2	82 +45.3	32 - .1	82 +46.7	Seq. 5
33 - 1.0	83 +44.4	33 - .1	83 +47.0	
34 - .9	84 +22.4	34 - .1	84 +47.2	
35 - .7	85 +46.7	35 - .1	85 +47.3	
36 + .1	86 +47.0	36 - 1.0	86 +47.3	
37 + .1	87 +47.4	37 + 0	87 +43.7	
38 + .1	88 + 2.8	38 - .1	88 +47.9	
39 - 4.2	89 +42.5	39 - .1	89 +47.1	
40 - 1.5	90 +45.9	40 - .1	90 +47.1	
41 + .1	91 +46.6	41 - .1	91 +47.0	
42 + .1	92 + 5.5	42 - .1	92 +43.9	
43 + .1	93 +47.3	43 - .1	93 +45.5	
44 + .1	94 +47.4	44 - .1	94 +46.1	
45 + .1	95 +44.3	45 - .1	95 +46.3	
46 + 0	96 +46.5	46 - .1	96 +46.6	
47 + 0	97 +36.1	47 - .1	97 +46.7	
48 + 0	98 + 3.2	48 - .1	98 +47.4	
49 + 0	99 + 3.2	49 - .1	99 +47.9	
50 + 0	100 + .1	50 - .1	100 + .1	

2213 .10 60° .03 0 10.0 +2.5° 1.049 2021.9 .002236

a)1 - .1	51 + .1	b)1 + .1	51 + .1	c)1 + .1
2 - .1	52 + 3.0	2 + 0	52 + 2.6	2 +46.6
3 - .1	53 + 1.9	3 + 0	53 + 1.1	3 +46.7
4 - 2.7	54 +46.9	4 + 0	54 + 6.5	4 +46.7
5 - 1.7	55 +46.1	5 + 0	55 +15.1	5 +46.7
6 - .9	56 +45.6	6 + 0	56 +18.2	6 +46.7
7 - .7	57 +46.0	7 + 0	57 +36.1	7 +48.1
8 + 0	58 +45.9	8 + 0	58 +41.2	8 +49.0
9 + 0	59 +45.3	9 + .7	59 +42.0	9 +50.9
10 + .8	60 +45.3	10 + .1	60 +42.5	10 +53.8
11 - 1.8	61 +45.2	11 + 4.7	61 +42.9	11 +44.6
12 - 1.6	62 +45.2	12 + 0	62 +43.4	12 +44.6
13 - 1.2	63 +45.2	13 + 0	63 +43.8	13 +44.4
14 - .1	64 +45.4	14 + .9	64 + 3.1	14 +43.6
15 - .1	65 +45.8	15 + 0	65 + 3.0	15 +43.5
16 - .1	66 +45.0	16 + 0	66 +16.2	16 +46.3
17 - .1	67 +45.0	17 + 0	67 +43.5	17 +48.0
18 - 2.6	68 +45.0	18 + 0	68 +43.6	18 +49.4
19 - 1.5	69 +44.9	19 + 0	69 +44.6	19 +51.3
20 + 0	70 +44.4	20 + 0	70 +44.1	20 + .1
21 + 0	71 +44.3	21 + 0	71 +44.0	21 +41.4
22 + 0	72 +44.3	22 + 0	72 +44.0	22 +41.1
23 + 0	73 +44.3	23 + 0	73 +44.0	23 +41.1
24 + 0	74 +43.1	24 - 1.6	74 + 1.6	24 +41.1
25 - 3.1	75 +44.2	25 + .3	75 - 1.5	25 +40.9
26 - 1.3	76 +45.0	26 + .3	76 - 5.1	26 +43.0
27 - 1.0	77 +45.2	27 + .3	77 +17.8	27 +38.1
28 + 0	78 +42.5	28 + 3	78 +46.1	28 +45.8
29 + 0	79 +44.0	29 + .3	79 +46.1	29 +41.1
30 + 0	80 +44.0	30 + .3	80 +43.2	30 + .1
31 + 0	81 +44.7	31 + .3	81 +43.6	
32 - 5.7	82 +42.6	32 + .3	82 +43.9	Seq. 5
33 - 1.2	83 +46.4	33 + .3	83 +44.2	
34 + .1	84 +22.1	34 + .3	84 +44.3	
35 + .1	85 +44.1	35 + .3	85 +44.3	
36 + .1	86 +44.5	36 + .3	86 +44.3	
37 + .1	87 +44.7	37 + .3	87 +40.4	
38 + .1	88 + 1.6	38 + .3	88 +44.8	
39 - 7.0	89 +45.5	39 + .3	89 +43.4	
40 + .1	90 +43.0	40 + .3	90 +43.4	
41 + .1	91 +43.6	41 + .1	91 +43.6	
42 + .1	92 + 5.6	42 + .1	92 +43.3	
43 + .1	93 +44.2	43 + .1	93 +43.3	
44 + .1	94 +44.5	44 + .1	94 +43.3	
45 + .1	95 +42.9	45 + .1	95 +43.3	
46 + 0	96 +44.0	46 + 0	96 +43.5	
47 + 0	97 +35.2	47 + 0	97 +43.6	
48 + 0	98 + 3.3	48 + 0	98 +44.5	
49 + 0	99 + 3.2	49 + 0	99 +45.0	
50 + 0	100 + .1	50 + 0	100 + .2	

2234 .10 60° .01 0 10.0 0° 1.049 2021.2 .002260

a) 1 + 0	51 + .2	b) 1 - .2	51 + .2	c) 1 + .1
2 + .2	52 + .2	2 - .1	52 + .2	2 + 74.6
3 + .2	53 + .2	3 - .1	53 + .2	3 + 74.1
4 - 7.2	54 - 6.9	4 - .1	54 + .2	4 + 73.5
5 - 1.6	55 - 3.0	5 - .1	55 + .2	5 + 73.7
6 + .6	56 - 1.9	6 - .1	56 + .1	6 + 74.2
7 + .6	57 - 1.6	7 - .1	57 + .1	7 + 75.3
8 + .6	58 - 1.4	8 - .1	58 + .1	8 + 75.7
9 + .6	59 - 1.3	9 - .1	59 + .1	9 + 76.8
10 + 9.5	60 + 8.7	10 - .1	60 + .1	10 + 77.3
11 - 6.9	61 - 8.4	11 - 3.5	61 - 3.2	11 + 76.1
12 - 1.5	62 - 2.7	12 - .1	62 + .2	12 + 75.7
13 + .1	63 - 1.8	13 - .1	63 + .1	13 + 75.7
14 + .1	64 + .1	14 - 4.3	64 - 4.1	14 + 74.0
15 + .1	65 + .1	15 - .1	65 + .1	15 + 74.3
16 + .1	66 + .1	16 - .1	66 + .1	16 + 74.9
17 + .1	67 + .1	17 - .1	67 + .1	17 + 75.3
18 - 8.5	68 - 9.8	18 - .1	68 + .1	18 + 76.0
19 - 1.5	69 - 1.6	19 - .1	69 + .1	19 + 77.1
20 + .1	70 + .1	20 - .1	70 + .1	20 + .1
21 + .3	71 + .1	21 - .1	71 + .1	21 + 73.7
22 + .3	72 + .1	22 - .1	72 + .1	22 + 73.9
23 + .6	73 + .1	23 - .1	73 + .1	23 + 74.0
24 + .6	74 + .1	24 - 2.3	74 - 2.2	24 + 73.9
25 - 8.0	75 - 8.2	25 - 0	75 + .1	25 + 70.4
26 - 1.4	76 - 1.9	26 - .1	76 + .1	26 + 73.0
27 + .1	77 - 1.9	27 + .1	77 + .1	27 + 65.6
28 + .1	78 + .1	28 - .2	78 + .1	28 + 75.5
29 + .1	79 + .1	29 + .2	79 + .1	29 + 65.5
30 + .1	80 + .1	30 - .2	80 + .1	30 + .1
31 + .1	81 + .1	31 + .2	81 + .1	
32 - 7.3	82 - 8.8	32 + .2	82 + .1	Seq. 5
33 - 1.1	81 - 2.1	33 + .3	83 + .1	
34 + .1	84 + .1	34 + .3	84 + .1	
35 + .2	85 + .1	35 + .2	85 + .1	
36 + .2	86 + .1	36 - .8	86 - .8	
37 + .2	87 + .1	37 + .1	87 + .2	
38 + .2	88 + .1	38 + .1	88 + .1	
39 - 7.4	89 - 8.4	39 + .1	89 + .1	
40 - 1.2	90 - 1.9	40 + .1	90 + .1	
41 + .1	91 - 1.6	41 + .1	91 + .1	
42 + .1	92 + .1	42 + .1	92 + .1	
43 + .1	93 + .1	43 + .1	93 + .1	
44 + .1	94 + .1	44 + .1	94 + .1	
45 + .1	95 + .1	45 + .1	95 + .1	
46 + .1	96 + .1	46 - .1	96 + .1	
47 + .1	97 + .1	47 - .1	97 + .1	
48 + .1	98 + .1	48 - .1	98 + .1	
49 + .1	99 + .1	49 - .1	99 + .1	
50 + .1	100 + .1	50 - .1	100 + .1	

. 2255^ .10 30° .25 0 10.0 +2.5° 1.049 2050.9 .002283

a)1 + 0	51 + .2	b)1 + 0	51 + .1	c)1 + .1
2 + 0	52 + 4.3	2 + 0	52 + 4.0	2 + 1.1
3 + 0	53 + .8	3 + 0	53 + .8	3 - 2.7
4 + 0	54 + 11.0	4 + 0	54 + 6.0	4 - 2.7
5 - .1	55 + 9.7	5 + 0	55 + 6.0	5 - 2.7
6 - .1	56 + 8.3	6 + 0	56 + 5.0	6 - 2.6
7 - .1	57 + 9.7	7 + 0	57 + 5.3	7 + 14.4
8 - .1	58 + 8.0	8 + 0	58 + 5.4	8 + 20.7
9 - .1	59 + 5.7	9 + 0	59 + 3.2	9 + 2.1
10 + .5	60 + 6.0	10 + 0	60 + 3.2	10 + 2.4
11 - .1	61 + 6.9	11 + 2.5	61 + 3.2	11 + 1.9
12 - .1	62 + 7.0	12 - .1	62 + 4.5	12 - .6
13 - .1	63 + 4.5	13 - .1	63 + 5.0	13 - .9
14 - .1	64 + 7.5	14 + 1.1	64 + 4.8	14 - 2.2
15 - .1	65 + 9.4	15 + 0	65 + 4.9	15 - 2.3
16 - .1	66 + 7.0	16 - .1	66 + 5.2	16 + 13.4
17 - .1	67 + 2.9	17 - .1	67 + 5.3	17 + .7
18 - .1	68 + 5.0	18 - .1	68 + 6.3	18 + .6
19 - .1	69 + 6.8	19 - .1	69 + 7.7	19 + .8
20 - .1	70 + 3.7	20 - .1	70 + 7.9	20 + .1
21 - .1	71 + 1.9	21 - .1	71 + 8.0	21 + .9
22 - .1	72 + 2.9	22 - .1	72 + 6.6	22 + .1
23 - .1	73 + 6.6	23 - .1	73 + 6.3	23 + .1
24 - .1	74 + 5.5	24 - .1	74 + 2.9	24 + .1
25 - .1	75 + 3.9	25 - .1	75 + 3.1	25 + .1
26 - .1	76 + 5.4	26 - .1	76 + 3.5	26 + 10.2
27 - .1	77 + 7.2	27 - .1	77 + 3.7	27 + .1
28 - .1	78 + 4.1	28 - .1	78 + 4.0	28 + .1
29 - .1	79 + 2.4	29 - .1	79 + 6.0	29 + .5
30 - .1	80 + 4.1	30 - .1	80 + 9.4	30 + .1
31 - .1	81 + 7.1	31 - .1	81 + 10.5	
32 - .1	82 + 8.7	32 - .1	82 + 10.6	Seq. 5
33 - .1	83 + 4.3	33 - .1	83 + 8.6	
34 - .1	84 + 3.5	34 - .1	84 + 6.7	
35 - .1	85 + 8.4	35 - .1	85 + 7.3	
36 - .1	86 + 5.0	36 - .1	86 + 7.7	
37 - .1	87 + 6.8	37 - .1	87 + 7.8	
38 - .1	88 + 3.2	38 - .1	88 + 5.5	
39 - .1	89 + 3.8	39 - .9	89 + 4.2	
40 - .1	90 + 8.6	40 - 0	90 + 5.4	
41 - .1	91 + 8.7	41 - .1	91 + 6.7	
42 - .1	92 + 2.1	42 - .1	92 + 7.4	
43 - .1	93 + 6.8	43 - .1	93 + 7.6	
44 - .1	94 + 5.4	44 - .1	94 + 3.0	
45 - .1	95 + 5.5	45 - .1	95 + 4.0	
46 - .1	96 + 6.8	46 - .1	96 + 5.9	
47 - .1	97 + 5.1	47 - .1	97 + 5.9	
48 - .1	98 + 2.4	48 - .1	98 + 7.7	
49 - .1	99 + 2.7	49 - .1	99 + 8.5	
50 - .1	100 + .1	50 - .1	100 + .1	

2256 .10 30° .25 0 10.0 0° 1.048 2050.9 .002283

a) 1 + 0	51 + .2	b) 1 + 0	51 + .1	c) 1 + .1
2 + 0	52 + 3.7	2 + 0	52 + 3.4	2 + .3
3 + 0	53 + 2.2	3 + 0	53 + 1.5	3 - 1.5
4 + 0	54 + 8.3	4 + 0	54 + 4.3	4 + .2
5 + 0	55 + 7.5	5 + 0	55 + 5.2	5 + .2
6 + 0	56 + 6.6	6 + 0	56 + 5.3	6 + .2
7 + 0	57 + 9.0	7 + 0	57 + 6.3	7 + 8.7
8 + 0	58 + 6.6	8 + 0	58 + 7.4	8 + 15.3
9 + 0	59 + 4.7	9 + 0	59 + 8.2	9 + 1.8
10 + 1.5	60 + 5.2	10 + 0	60 + 8.9	10 + 1.7
11 + 0	61 + 6.4	11 + .6	61 + 8.9	11 + 1.2
12 + 0	62 + 6.8	12 + .1	62 + 8.6	12 + .4
13 + 0	63 + 6.6	13 + 0	63 + 8.1	13 - 1.0
14 + 0	64 + 7.8	14 + 0	64 + 6.6	14 - 2.4
15 + 0	65 + 9.2	15 + 0	65 + 6.6	15 - 2.5
16 + 0	66 + 9.1	16 + 0	66 + 6.6	16 + 11.9
17 + 0	67 + 6.7	17 + 0	67 + 6.6	17 + .3
18 + 0	68 + 6.7	18 + 0	68 + 7.6	18 + .3
19 + 0	69 + 7.0	19 + 0	69 + 8.2	19 + 4.9
20 + 0	70 + 5.9	20 + 0	70 + 7.5	20 + .1
21 + 0	71 + 5.5	21 + 0	71 + 5.1	21 + .1
22 + 0	72 + 5.5	22 + 0	72 + 4.7	22 + .1
23 + 0	73 + 6.1	23 + 0	73 + 4.8	23 - 3.6
24 + 0	74 + 7.1	24 + 1.1	74 + 4.8	24 - 3.6
25 + 0	75 + 7.1	25 + 0	75 + 4.8	25 - 3.7
26 + 0	76 + 7.2	26 + 0	76 + 5.3	26 + 12.9
27 + 0	77 + 7.4	27 + 0	77 + 6.2	27 + .2
28 + 0	78 + 5.9	28 + 0	78 + 8.4	28 + .2
29 + 0	79 + 5.8	29 + 0	79 + 9.3	29 + .2
30 + 0	80 + 6.0	30 + 0	80 + 9.5	30 + .1
31 + 0	81 + 6.8	31 + 0	81 + 7.3	
32 + 0	82 + 7.3	32 + 0	82 + 7.2	
33 + 0	83 + 7.5	33 + 0	83 + 7.2	
34 + 0	84 + 3.0	34 + 0	84 + 7.2	
35 + 3.0	85 + 4.4	35 + 0	85 + 7.2	
36 + 0	86 + 5.6	36 + 0	86 + 7.2	
37 + 0	87 + 6.7	37 + 0	87 + 7.4	
38 + 0	88 + 4.4	38 + 0	88 + 7.5	
39 + 1.5	89 + 6.3	39 + .6	89 + 8.7	
40 + 0	90 + 7.7	40 + .1	90 + 5.5	
41 + 0	91 + 4.8	41 + 0	91 + 6.0	
42 + 0	92 + 2.7	42 + 0	92 + 7.5	
43 + 0	93 + 5.9	43 + 0	93 + 7.6	
44 + 0	94 + 6.1	44 + 0	94 + 6.1	
45 + 0	95 + 5.4	45 + 0	95 + 6.1	
46 + 0	96 + 6.1	46 + 0	96 + 6.1	
47 + 0	97 + 5.7	47 + 0	97 + 6.1	
48 + 0	98 + 2.7	48 + 0	98 + 7.1	
49 + 0	99 + 2.7	49 + 0	99 + 8.1	
50 + 0	100 + .1	50 + 0	100 + .2	

Seq. 5

2257 .10 30° .25 0 10.0 -2.5° 1.049 2050.9 .002283

a)1 + .1	51 + .2	b)1 - 0	51 + .1	c)1 + .1
2 + 0	52 + 3.9	2 + 0	52 + 2.6	2 + 1.7
3 + 0	53 + .7	3 + 0	53 + 1.1	3 + .1
4 + 0	54 + 6.7	4 + 0	54 + 2.6	4 + .1
5 + 0	55 + 5.2	5 + 0	55 + 3.4	5 + .1
6 + 0	56 + 5.7	6 + 0	56 + 3.0	6 + .1
7 + 0	57 + 9.5	7 + 0	57 + 3.4	7 + 7.6
8 + 0	58 + 5.8	8 + 0	58 + 3.7	8 + 11.7
9 + 0	59 + 3.2	9 + 0	59 + 4.0	9 + 2.5
10 + .6	60 + 4.0	10 + 0	60 + 5.1	10 + 2.8
11 + 0	61 + 6.4	11 + 0	61 + 8.4	11 + .2
12 + 0	62 + 6.5	12 + 0	62 + 9.7	12 + .2
13 + 0	63 + 4.9	13 + 0	63 + 9.9	13 + .2
14 + 0	64 + 6.0	14 + 0	64 + 4.7	14 + .7
15 + 0	65 + 9.5	15 + 0	65 + 4.7	15 + .7
16 + 0	66 + 8.8	16 + 0	66 + 4.7	16 + 12.1
17 + 0	67 + 4.7	17 + 0	67 + 4.7	17 + 1.7
18 + 0	68 + 5.2	18 + 0	68 + 5.0	18 + 1.6
19 + 0	69 + 6.5	19 + 0	69 + 6.0	19 + 2.2
20 + 0	70 + 5.9	20 + 0	70 + 7.0	20 + 1.5
21 + 0	71 + 3.0	21 + 0	71 + 7.3	21 + 1.9
22 + 0	72 + 3.9	22 + 0	72 + 6.6	22 + .8
23 + 0	73 + 6.2	23 + 0	73 + 5.2	23 + 1.4
24 + 0	74 + 9.1	24 + 1.4	74 + 5.1	24 + 1.7
25 + 0	75 + 9.0	25 + 0	75 + 5.0	25 + .8
26 + 0	76 + 8.9	26 + 0	76 + 5.0	26 + 17.7
27 + 0	77 + 8.9	27 + 0	77 + 4.4	27 + .1
28 + 0	78 + 8.9	28 + 0	78 + 4.3	28 + .1
29 + 0	79 + 8.4	29 + 0	79 + 4.3	29 + 1.0
30 + 0	80 + 8.4	30 + .6	80 + 4.3	30 + .1
31 + 0	81 + 8.4	31 + 0	81 + 4.3	
32 + 0	82 + 8.4	32 + 0	82 + 4.2	
33 + 0	83 + 8.5	33 + 0	83 + 4.6	
34 + 0	84 + 3.3	34 + 0	84 + 5.6	
35 + 0	85 + 4.6	35 + 0	85 + 5.6	
36 + 0	86 + 5.6	36 + 0	86 + 6.2	
37 + 0	87 + 6.7	37 + .4	87 + 5.3	
38 + 0	88 + 7.4	38 + .6	88 + 10.5	
39 + 1.7	89 + 7.4	39 + .9	89 + 10.0	
40 + 0	90 + 1.7	40 + 0	90 + 6.5	
41 + 0	91 + 2.9	41 + 0	91 + 6.5	
42 + 0	92 + 3.0	42 + 0	92 + 5.8	
43 + 0	93 + 7.4	43 + 0	93 + 7.9	
44 + 0	94 + 7.1	44 + 0	94 + 6.9	
45 + 0	95 + 7.1	45 + 0	95 + 6.5	
46 + 0	96 + 7.5	46 + 0	96 + 6.5	
47 + 0	97 + 5.4	47 + 0	97 + 6.3	
48 + 0	98 + 4.3	48 + 0	98 + 7.1	
49 + 0	99 + 4.3	49 + 0	99 + 8.4	
50 + 0	100 + .1	50 + 0	100 + .1	

Seq. 5

2298 .10 30° .15 0 10.0 45.0° 1.049 2050.9 .002319

a) 1 + .1	51 .1	b) 1 - .1	51 .1	c) 1 .2
2 + .1	52 5.1	2 - .1	52 5.1	2 1.7
3 + .1	53 1.7	3 - .1	53 1.8	3 - 4.8
4 + .1	54 13.6	4 - .1	54 6.7	4 - 4.3
5 + .1	55 10.6	5 - .1	55 7.0	5 - 4.0
6 + .1	56 9.8	6 - .1	56 5.6	6 - 3.1
7 + .1	57 11.7	7 - .1	57 6.8	7 19.8
8 + .1	58 10.8	8 - .1	58 6.6	8 28.2
9 + .1	59 7.0	9 - .1	59 5.7	9 .4
10 + 1.5	60 7.6	10 - .1	60 5.7	10 3.1
11 + .1	61 9.0	11 .5	61 6.3	11 .1
12 + .1	62 8.2	12 - .1	62 7.7	12 - 1.8
13 + .1	63 5.4	13 - .1	63 8.5	13 - 2.4
14 + .1	64 9.3	14 .1	64 5.2	14 - 2.5
15 + .1	65 11.8	15 0	65 5.8	15 - 2.6
16 + .1	66 8.6	16 0	66 6.2	16 12.6
17 + .1	67 3.9	17 0	67 6.3	17 - 1.6
18 .1	68 8.7	18 0	68 8.3	18 .2
19 + .1	69 9.5	19 0	69 9.6	19 3.1
20 .1	70 5.7	20 0	70 8.9	20 .1
21 .1	71 3.0	21 0	71 8.3	21 .6
22 .1	72 6.6	22 0	72 6.4	22 .2
23 .1	73 9.2	23 0	73 6.3	23 .2
24 .1	74 4.8	24 0	74 3.5	24 .2
25 .1	75 4.9	25 0	75 3.8	25 .1
26 .1	76 10.7	26 0	76 4.0	26 5.9
27 .1	77 10.8	27 0	77 4.0	27 .1
28 .1	78 3.5	28 0	78 4.5	28 .1
29 .1	79 3.6	29 0	79 6.7	29 .2
30 .1	80 9.6	30 0	80 9.8	30 .2
31 .1	81 10.1	31 - .1	81 12.9	
32 .1	82 10.4	32 - .1	82 11.2	
33 .1	83 5.0	33 - .1	83 8.0	
34 .1	84 5.7	34 - .1	84 8.6	
35 .1	85 8.5	35 - .1	85 9.4	
36 .1	86 6.8	36 - .1	86 9.8	
37 .1	87 9.7	37 - .1	87 5.5	
38 .1	88 4.0	38 - .1	88 7.6	
39 .1	89 3.6	39 - .1	89 4.2	
40 .1	90 11.0	40 - .1	90 7.2	
41 + .1	91 10.3	41 - .1	91 9.4	
42 + .1	92 2.9	42 - .1	92 9.2	
43 + .1	93 10.0	43 - .1	93 7.5	
44 + .1	94 7.9	44 - .1	94 4.8	
45 + .1	95 7.8	45 - .1	95 6.7	
46 + .1	96 9.4	46 - .1	96 8.8	
47 + .1	97 7.5	47 - .1	97 6.7	
48 + .1	98 3.3	48 - .1	98 9.7	
49 + .1	99 3.7	49 - .1	99 11.0	
50 + .1	100 .1	50 - .1	100 .1	

Seq. 5

2299 .10 30° .15 0 10.0 2.5° 1.049 2050.9 .002319

a) 1 + 0	51 + .2	b) 1 + 0	51 + .2	c) 1 + .1
2 + 0	52 + 4.2	2 + 0	52 + 4.4	2 + 1.3
3 + 0	53 + .9	3 + 0	53 + 1.2	3 - 2.2
4 + 0	54 + 12.5	4 + 0	54 + 6.6	4 - 2.3
5 + 0	55 + 11.1	5 + 0	55 + 7.2	5 - 2.3
6 + 0	56 + 9.3	6 + 0	56 + 6.5	6 - 2.3
7 + 0	57 + 10.5	7 + 0	57 + 7.8	7 + 15.4
8 + 0	58 + 10.0	8 + 0	58 + 8.0	8 + 21.9
9 + 0	59 + 7.2	9 + 0	59 + 7.2	9 + 1.8
10 + 1.3	60 + 7.4	10 + 0	60 + 7.2	10 + 2.8
11 + .1	61 + 8.3	11 - 1.2	61 + 7.3	11 + .8
12 + 0	62 + 6.5	12 - .7	62 + 7.6	12 - .7
13 + 0	63 + 7.5	13 - .7	63 + 7.8	13 - .7
14 + 0	64 + 8.9	14 + .3	64 + 4.5	14 - 1.6
15 + 0	65 + 10.8	15 + 0	65 + 5.3	15 - 1.7
16 + 0	66 + 8.9	16 + 0	66 + 5.7	16 + 14.6
17 + 0	67 + 5.8	17 + 0	67 + 5.8	17 - .9
18 + 0	68 + 7.0	18 + 0	68 + 8.6	18 + .2
19 + 0	69 + 8.5	19 + 0	69 + 10.1	19 + 3.6
20 + 0	70 + 5.8	20 + 0	70 + 10.0	20 + .1
21 + 0	71 + 5.6	21 + 0	71 + 7.7	21 + 1.6
22 + 0	72 + 6.3	22 + 0	72 + 7.2	22 + .1
23 + 0	73 + 8.3	23 + 0	73 + 7.2	23 - .8
24 + 0	74 + 7.3	24 + 0	74 + 3.2	24 - .8
25 + 0	75 + 7.0	25 + 0	75 + 3.8	25 - .8
26 + 0	76 + 9.1	26 + 0	76 + 4.0	26 + 11.3
27 + 0	77 + 10.4	27 + 0	77 + 4.6	27 + .2
28 + 0	78 + 6.1	28 + 0	78 + 5.8	28 + .2
29 + 0	79 + 5.7	29 + 0	79 + 8.7	29 + .8
30 + 0	80 + 8.4	30 + 0	80 + 13.5	30 + .1
31 + 0	81 + 9.4	31 + 0	81 + 11.0	
32 + 0	82 + 9.6	32 + 0	82 + 8.8	Seq. 5
33 + 0	83 + 5.8	33 + 0	83 + 8.2	
34 + 0	84 + 5.8	34 + 0	84 + 8.2	
35 + 0	85 + 6.6	35 + 0	85 + 8.4	
36 + 0	86 + 7.0	36 + 0	86 + 9.0	
37 + 0	87 + 9.0	37 + 0	87 + 9.2	
38 + 0	88 + 3.7	38 + 0	88 + 8.9	
39 + 0	89 + 4.8	39 + 0	89 + 7.5	
40 + 0	90 + 11.8	40 + 0	90 + 7.5	
41 + 0	91 + 8.1	41 + 0	91 + 8.3	
42 + 0	92 + 2.5	42 + 0	92 + 8.8	
43 + 0	93 + 9.0	43 + 0	93 + 8.8	
44 + 0	94 + 7.8	44 + 0	94 + 5.9	
45 + 0	95 + 7.6	45 + 0	95 + 6.1	
46 + 0	96 + 5.6	46 + 0	96 + 7.7	
47 + 0	97 + 6.6	47 + 0	97 + 7.9	
48 + 0	98 + 2.3	48 + 0	98 + 9.0	
49 + 0	99 + 2.7	49 + 0	99 + 10.3	
50 + 0	100 + .1	50 + 0	100 + .1	

2300 .10 30° .15 0 10.0 0° 1.049 2050.9 .002319

a)1 - .1	51 .1	b)1 0	51 .2	c)1 .1
2 - .1	52 3.5	2 0	52 3.6	2 2.0
3 - .1	53 .6	3 0	53 1.2	3 1.0
4 - .1	54 9.4	4 0	54 4.6	4 .1
5 - .1	55 9.7	5 .1	55 5.1	5 .1
6 - .1	56 9.9	6 .2	56 5.0	6 .1
7 - .1	57 10.4	7 .2	57 6.3	7 11.7
8 - .1	58 9.6	8 .2	58 8.0	8 18.3
9 - .1	59 7.7	9 .2	59 9.8	9 3.0
10 .8	60 7.7	10 .2	60 11.2	10 3.5
11 - .1	61 8.3	11 1.1	61 8.3	11 2.9
12 - .1	62 8.4	12 .1	62 8.7	12 .9
13 - .1	63 8.6	13 .2	63 8.8	13 .4
14 - .1	64 9.9	14 .8	64 4.6	14 .4
15 - .1	65 10.6	15 .1	65 5.4	15 .4
16 - .1	66 10.4	16 .2	66 6.0	16 14.7
17 - .1	67 8.1	17 .2	67 6.5	17 .2
18 - .1	68 8.3	18 .3	68 9.9	18 1.5
19 - .1	69 8.5	19 .3	69 10.6	19 3.9
20 - .1	70 8.2	20 .3	70 8.0	20 .1
21 - .1	71 7.9	21 .2	71 8.0	21 1.1
22 - .1	72 7.9	22 .2	72 7.3	22 .1
23 - .1	73 7.9	23 .2	73 7.4	23 .8
24 - .1	74 8.6	24 1.4	74 3.2	24 .9
25 - .1	75 8.8	25 .6	75 3.9	25 1.0
26 - .1	76 9.3	26 .3	76 4.9	26 15.1
27 - .1	77 9.5	27 .3	77 6.2	27 .1
28 - .1	78 8.3	28 .3	78 9.1	28 .1
29 - .1	79 8.4	29 .3	79 11.7	29 1.0
30 - .1	80 8.4	30 .3	80 11.1	30 .1
31 - .1	81 8.8	31 .3	81 7.8	
32 - .1	82 9.0	32 .3	82 7.9	
33 - .1	83 9.0	33 .3	83 8.1	
34 - .1	84 3.2	34 .3	84 8.2	
35 - .1	85 6.7	35 .3	85 8.3	
36 - .1	86 7.8	36 .2	86 8.5	
37 - .1	87 8.2	37 .2	87 8.6	
38 - .1	88 3.9	38 .3	88 8.9	
39 - .1	89 6.9	39 .3	89 9.9	
40 - .1	90 9.2	40 .1	90 6.9	
41 - .1	91 8.4	41 .1	91 7.7	
42 - .1	92 2.5	42 .1	92 7.9	
43 - .1	93 8.7	43 .1	93 8.9	
44 - .1	94 8.4	44 .1	94 7.0	
45 - .1	95 7.6	45 .1	95 7.1	
46 - .1	96 7.8	46 .1	96 7.5	
47 - .1	97 6.8	47 .1	97 7.7	
48 - .1	98 2.4	48 .1	98 8.8	
49 - .1	99 2.5	49 0	99 9.4	
50 - .1	100 .2	50 0	100 .1	

Seq. 5

2301 .10 30⁰ .15 0 10.0 -2.5⁰ 1.048 2050.9 .002319

a)1 - .1	51 .2	b)1 + 0	51 .2	c)1 + .2
2 - .1	52 + 3.2	2 + 0	52 + 3.6	2 + 1.6
3 - .1	53 + 1.7	3 + 0	53 + 1.4	3 + .1
4 - .1	54 + 7.5	4 + 0	54 + 3.7	4 + .1
5 - .1	55 + 7.4	5 + 0	55 + 4.2	5 + .1
6 - .1	56 + 3.8	6 - .1	56 + 4.2	6 + .1
7 - .1	57 + 10.7	7 - .1	57 + 4.4	7 + 8.6
8 - .1	58 + 7.3	8 - .1	58 + 5.0	8 + 13.0
9 - .1	59 + 5.6	9 - .1	59 + 6.0	9 + 2.2
10 + .6	60 + 6.9	10 - .1	60 + 8.8	10 + 2.6
11 - .1	61 + 8.1	11 - .1	61 + 12.6	11 + 2.2
12 - .1	62 + 6.0	12 - 0	62 + 11.5	12 + .1
13 - .1	63 + 6.0	13 - 0	63 + 9.2	13 + 3.6
14 - .1	64 + 9.3	14 - 0	64 + 5.1	14 + 3.4
15 - .1	65 + 10.7	15 - 0	65 + 5.1	15 + 1.3
16 - .1	66 + 9.7	16 - .1	66 + 5.1	16 + 15.7
17 - .1	67 + 5.4	17 - .1	67 + 5.1	17 + .1
18 - .1	68 + 7.1	18 - .1	68 + 9.0	18 + .3
19 - .1	69 + 8.0	19 - .1	69 + 11.7	19 + 2.8
20 - .1	70 + 7.1	20 - .1	70 + 10.4	20 + .4
21 - .1	71 + 6.4	21 - .1	71 + 7.4	21 + 1.3
22 - .1	72 + 6.4	22 - .1	72 + 5.0	22 + 1.6
23 - .1	73 + 7.5	23 - .1	73 + 5.2	23 + 2.1
24 - .1	74 + 9.0	24 - 1.5	74 + 5.3	24 + 2.2
25 - .1	75 + 8.4	25 - 0	75 + 5.6	25 + 2.2
26 - .1	76 + 8.5	26 - .1	76 + 6.1	26 + 20.2
27 - 0	77 + 8.8	27 - .1	77 + 6.3	27 + 1.4
28 - 0	78 + 9.3	28 - .2	78 + 6.4	28 + .2
29 - .1	79 + 8.9	29 - 2	79 + 6.8	29 + 1.4
30 - 1	80 + 8.8	30 - .2	80 + 7.0	30 + .1
31 - .1	81 + 8.8	31 - .3	81 + 7.0	
32 - .1	82 + 9.2	32 - 3	82 + 7.0	
33 - .1	83 + 8.6	33 - .3	83 + 7.0	
34 - .1	84 + 3.0	34 - .3	84 + 7.5	
35 - .1	85 + 6.1	35 - .3	85 + 8.6	
36 - 0	86 + 7.1	36 - 0	86 + 9.3	
37 - 0	87 + 8.3	37 - .2	87 + 6.0	
38 - 0	88 + 5.4	38 - .4	88 + 8.5	
39 - 0	89 + 8.3	39 - .5	89 + 14.8	
40 - 0	90 + 5.5	40 - 0	90 + 7.0	
41 - 0	91 + 5.7	41 - 0	91 + 8.4	
42 - 0	92 + 2.8	42 - 0	92 + 6.4	
43 - 0	93 + 7.8	43 - 0	93 + 10.9	
44 - 0	94 + 7.5	44 - 0	94 + 6.9	
45 - 0	95 + 7.5	45 - .1	95 + 7.0	
46 - 0	96 + 7.9	46 - .1	96 + 7.9	
47 - 0	97 + 7.4	47 - .1	97 + 7.6	
48 - 0	98 + 3.1	48 - .1	98 + 9.2	
49 - 0	99 + 3.1	49 - .1	99 + 10.2	
50 - 0	100 + .1	50 - .1	100 + .2	

Seq. 5

2302 .10 30⁰ .15 0 10.0 -5.0⁰ 1.048 2050.9 .002319

a) 1 + 0	51 + .1	b) 1 + 0	51 + .2	c) 1 + .1
2 + 0	52 + 3.0	2 + 0	52 + 3.3	2 + 2.3
3 + 0	53 + .3	3 + .2	53 + .6	3 + 1.5
4 + 0	54 + 4.0	4 + .2	54 + 3.2	4 + 1.5
5 + 0	55 + 4.2	5 + .2	55 + 3.8	5 + 1.5
6 - .1	56 + 9.0	6 + .2	56 + 3.6	6 + 1.5
7 - .1	57 + 10.9	7 + .2	57 + 3.6	7 + 4.8
8 - .1	58 + 7.4	8 + .3	58 + 3.6	8 + 9.5
9 + 0	59 + 2.6	9 + .3	59 + 4.3	9 + 1.4
10 + .2	60 + 5.9	10 + .3	60 + 5.9	10 + 2.3
11 + 0	61 + 8.3	11 + .3	61 + 9.7	11 + .4
12 + 0	62 + 4.1	12 + .3	62 + 10.8	12 - .1
13 + 0	63 + 3.3	13 + .3	63 + 10.7	13 - .1
14 + 0	64 + 9.4	14 + .3	64 + 3.6	14 - .1
15 + 0	65 + 10.8	15 + .3	65 + 4.0	15 - .1
16 + 0	66 + 7.4	16 + .3	66 + 4.2	16 + 13.5
17 + .1	67 + 2.7	17 + .3	67 + 4.3	17 - 1.0
18 + .1	68 + 6.0	18 + .3	68 + 5.8	18 + .2
19 + .1	69 + 8.1	19 + .3	69 + 7.9	19 + 3.0
20 + .2	70 + 6.5	20 + .3	70 + 9.5	20 + .1
21 + .2	71 + 4.6	21 + 0	71 + 9.2	21 + 2.0
22 + .2	72 + 5.0	22 + .2	72 + 4.8	22 - 2.7
23 + .2	73 + 6.9	23 + .2	73 + 4.8	23 - 3.0
24 + .2	74 + 9.6	24 + 2.2	74 + 4.8	24 - 3.1
25 + .2	75 + 7.7	25 + 0	75 + 4.8	25 - 3.1
26 + .2	76 + 8.1	26 + 0	76 + 4.8	26 + 25.9
27 + .2	77 + 8.7	27 + 0	77 + 4.8	27 - 3.8
28 + .3	78 + 9.7	28 + .1	78 + 4.8	28 - 2.9
29 + .3	79 + 7.0	29 + .2	79 + 4.8	29 + 2.9
30 + .3	80 + 7.5	30 + .6	80 + 4.8	30 + .1
31 + .3	81 + 8.0	31 + 0	81 + 5.2	
32 + .3	82 + 9.1	32 + 0	82 + 5.7	Seq. 5
33 + .3	83 + 8.5	33 + 0	83 + 6.4	
34 + .3	84 + 2.7	34 + .1	84 + 6.6	
35 + .3	85 + 4.4	35 + .1	85 + 7.4	
36 + .3	86 + 6.2	36 + 0	86 + 8.2	
37 + .3	87 + 8.4	37 + .4	87 + 3.1	
38 + .3	88 + 8.5	38 + .6	88 + 9.9	
39 + .3	89 + 7.2	39 + 1.0	89 + 11.1	
40 + .3	90 + 2.6	40 + 0	90 + 4.2	
41 + .3	91 + 5.5	41 - .1	91 + 7.0	
42 + .3	92 + 3.1	42 - .1	92 + 4.7	
43 + .3	93 + 8.4	43 - .1	93 + 9.3	
44 + .3	94 + 8.5	44 - .1	94 + 6.1	
45 + .3	95 + 8.3	45 - .1	95 + 5.7	
46 + .2	96 + 8.5	46 - .1	96 + 6.8	
47 + .2	97 + 7.2	47 - .1	97 + 6.5	
48 + .2	98 + 1.9	48 - .1	98 + 8.4	
49 + .2	99 + 2.3	49 - .1	99 + 9.5	
50 + .2	100 + .1	50 - .1	100 + .1	

2353 .10 30° .10 0 10.0 +5.0° 1.048 2048.8 .002249

a) 1 + 0	51 + .2	b) 1 : .1	51 + .1	c) 1 + .1
2 + 0	52 + 5.7	2 + .1	52 + 4.4	2 + 6.5
3 + 0	53 + 1.8	3 + .1	53 + 1.1	3 + .1
4 + 0	54 + 16.0	4 + .1	54 + 7.0	4 + .3
5 + 0	55 + 12.6	5 + .1	55 + 7.7	5 + .5
6 + 0	56 + 11.7	6 + .2	56 + 6.7	6 + .8
7 + 0	57 + 13.0	7 + .3	57 + 8.3	7 + 21.2
8 + 0	58 + 13.1	8 + .3	58 + 6.5	8 + 29.9
9 + 0	59 + 8.7	9 + .6	59 + 7.9	9 + 3.0
10 + .3	60 + 9.6	10 + .7	60 + 8.0	10 + 7.2
11 + .1	61 + 10.8	11 + 3.4	61 + 8.2	11 + 2.1
12 + .1	62 + 10.0	12 + .1	62 + 9.3	12 + .6
13 + 0	63 + 7.9	13 + .1	63 + 9.5	13 + .2
14 + 0	64 + 11.8	14 + 1.0	64 + 4.5	14 + 1.4
15 + 0	65 + 13.6	15 + .5	65 + 5.4	15 + .4
16 + 0	66 + 9.9	16 + .4	66 + 6.4	16 + 16.0
17 + 0	67 + 8.7	17 + .4	67 + 7.1	17 + .3
18 + 0	68 + 10.0	18 + .4	68 + 9.8	18 + 2.0
19 + 0	69 + 11.3	19 + .4	69 + 10.8	19 + 6.7
20 + 0	70 + 7.5	20 + .4	70 + 10.0	20 + .5
21 + 0	71 + 7.3	21 + .4	71 + 8.8	21 + 3.0
22 + 0	72 + 9.2	22 + .4	72 + 8.2	22 + 3.0
23 + 0	73 + 11.4	23 + .4	73 + 8.4	23 + 2.3
24 + 0	74 + 6.6	24 + .4	74 + 3.0	24 + 2.2
25 + 0	75 + 11.8	25 + .4	75 + 3.0	25 + 2.2
26 + 0	76 + 13.6	26 + .4	76 + 2.9	26 + 8.6
27 + 0	77 + 13.0	27 + .4	77 + 3.1	27 + 1.5
28 + 0	78 + 6.6	28 + .4	78 + 5.8	28 + 1.8
29 + 0	79 + 9.7	29 + .4	79 + 8.9	29 + 2.1
30 + 0	80 + 12.0	30 + .1	80 + 15.0	30 + .1
31 + 0	81 + 12.4	31 + .2	81 + 12.9	
32 + .7	82 + 12.5	32 + .2	82 + 10.2	Seq. 5
33 + .1	83 + 6.2	33 + .3	83 + 10.4	
34 + .1	84 + 7.9	34 + .3	84 + 10.4	
35 + .1	85 + 8.7	35 + .3	85 + 10.9	
36 + .1	86 + 9.9	36 + .3	86 + 11.3	
37 + .1	87 + 12.3	37 + .3	87 + 7.5	
38 + .1	88 + 4.5	38 + .3	88 + 10.1	
39 + 1.7	89 + 5.4	39 + .3	89 + 7.3	
40 + .1	90 + 15.2	40 + .3	90 + 9.2	
41 + .1	91 + 10.8	41 + 0	91 + 10.7	
42 + .1	92 + 3.5	42 + 0	92 + 10.9	
43 + .1	93 + 12.3	43 + 0	93 + 8.1	
44 + .1	94 + 11.4	44 + 0	94 + 7.5	
45 + .1	95 + 10.5	45 + 0	95 + 8.8	
46 + .1	96 + 11.8	46 + 0	96 + 10.7	
47 + .1	97 + 8.9	47 + 0	97 + 9.0	
48 + .1	98 + 3.7	48 + 0	98 + 12.0	
49 + .1	99 + 3.9	49 + 0	99 + 13.2	
50 + .1	100 + .2	50 + 0	100 + .2	

2354 .10 30° .10 0 10.0 +2.5° 1.048 2048.8 .002249

a)			b)			c)		
1 -	.1	51 + .1	1 -	.1	51 + .2	1 +	.1	
2 -	.1	52 + 4.3	2 -	.1	52 + 4.7	2 +	3.0	
3 -	.1	53 + .8	3 -	.1	53 + 1.6	3 +	.1	
4 -	.1	54 + 15.1	4 -	.1	54 + 7.0	4 +	.1	
5 -	.1	55 + 13.5	5 -	.1	55 + 8.1	5 +	.2	
6 -	.1	56 + 11.9	6 -	.1	56 + 7.6	6 +	.2	
7 -	.1	57 + 13.0	7 -	.1	57 + 10.5	7 +	17.0	
8 -	.1	58 + 12.9	8 -	.1	58 + 10.9	8 +	24.1	
9 -	.1	59 + 10.1	9 -	.1	59 + 11.0	9 +	3.6	
10 +	.7	60 + 10.2	10 -	.1	60 + 11.0	10 +	5.2	
11 -	.1	61 + 10.8	11 +	1.4	61 + 11.0	11 +	3.5	
12 -	.1	62 + 10.9	12 -	.1	62 + 11.6	12 +	1.5	
13 -	.1	63 + 10.6	13 -	.1	63 + 11.7	13 +	.2	
14 -	.1	64 + 12.0	14 +	.2	64 + 5.2	14 +	.2	
15 -	.1	65 + 13.1	15 -	.1	65 + 6.1	15 +	.2	
16 -	.1	66 + 11.1	16 -	.1	66 + 7.9	16 +	14.9	
17 -	.1	67 + 9.8	17 -	.1	67 + 8.4	17 +	1.3	
18 -	.1	68 + 11.2	18 -	.1	68 + 11.5	18 +	2.2	
19 -	.1	69 + 11.4	19 -	.1	69 + 12.8	19 +	5.1	
20 -	.1	70 + 8.9	20 -	.1	70 + 11.0	20 +	.1	
21 -	.1	71 + 8.8	21 -	.1	71 + 10.0	21 +	2.7	
22 -	.1	72 + 9.3	22 -	.1	72 + 10.1	22 +	2.4	
23 -	.1	73 + 10.7	23 -	.1	73 + 10.6	23 +	1.7	
24 -	.1	74 + 10.2	24 -	.1	74 + 4.0	24 +	1.6	
25 -	.1	75 + 10.8	25 -	.1	75 + 4.2	25 +	1.6	
26 -	.1	76 + 12.7	26 -	.1	76 + 4.6	26 +	12.3	
27 -	.1	77 + 12.9	27 -	.1	77 + 5.9	27 +	1.8	
28 -	.1	78 + 8.8	28 -	.1	78 + 8.5	28 +	2.1	
29 -	.1	79 + 9.8	29 -	.1	79 + 12.0	29 +	2.9	
30 -	.1	80 + 11.5	30 -	.1	80 + 17.5	30 +	.1	
31 -	.1	81 + 11.9	31 -	.1	81 + 12.3	Seq. 5		
32 -	.1	82 + 12.1	32 -	.1	82 + 1.3			
33 -	.1	83 + 7.6	33 -	.1	83 + 11.9			
34 -	.1	84 + 7.3	34 -	.1	84 + 11.0			
35 -	.1	85 + 9.5	35 -	.1	85 + 11.8			
36 -	.1	86 + 10.1	36 -	.1	86 + 12.1			
37 -	.1	87 + 11.7	37 -	.1	87 + 10.9			
38 -	.1	88 + 3.7	38 -	.1	88 + 12.6			
39 -	.1	89 + 6.4	39 -	.1	89 + 10.9			
40 -	.1	90 + 14.6	40 -	.1	90 + 11.1			
41 -	.1	91 + 10.1	41 -	.1	91 + 11.4			
42 -	.1	92 + 2.7	42 -	.1	92 + 11.6			
43 -	.1	93 + 11.9	43 -	.1	93 + 11.7			
44 -	.1	94 + 11.4	44 -	.1	94 + 9.4			
45 -	.1	95 + 10.5	45 -	.1	95 + 10.2			
46 -	.1	96 + 11.1	46 -	.1	96 + 11.0			
47 -	.1	97 + 8.5	47 -	.1	97 + 11.2			
48 -	.1	98 + 2.7	48 -	.1	98 + 12.8			
49 -	.1	99 + 3.0	49 -	.1	99 + 13.5			
50 -	.1	100 + .1	50 -	.1	100 + .2			

2355 .10 30° .10 0 10.0 0° 1.048 2048.8 .002249

a) 1 + .1	51 + .1	b) 1 + .1	51 + .1	c) 1 + .2
2 + .1	52 + 4.2	2 + .1	52 + 4.2	2 + 3.1
3 + .1	53 + 1.1	3 + .1	53 + 1.0	3 + .1
4 + .1	54 + 13.9	4 + .1	54 + 4.8	4 + .1
5 + .1	55 + 13.9	5 + 0	55 + 5.3	5 + .3
6 + .1	56 + 13.9	6 + 0	56 + 4.9	6 + .5
7 + .1	57 + 13.9	7 + 0	57 + 7.5	7 + 13.8
8 + .1	58 + 12.0	8 + 0	58 + 10.0	8 + 18.5
9 + .1	59 + 11.0	9 + 0	59 + 3.4	9 + 3.3
10 + .6	60 + 11.4	10 + 0	60 + 14.3	10 + 4.1
11 + 0	61 + 11.5	11 + 0	61 + 10.1	11 + 3.6
12 + 0	62 + 11.6	12 + 0	62 + 11.2	12 + 1.1
13 + 0	63 + 11.7	13 + 0	63 + 11.7	13 + .1
14 + 0	64 + 13.4	14 + 0	64 + 4.5	14 + .1
15 + .1	65 + 13.8	15 + 0	65 + 5.7	15 + .2
16 + .1	66 + 13.3	16 + 0	66 + 6.6	16 + 14.8
17 + 0	67 + 10.8	17 + 0	67 + 8.4	17 + 1.2
18 + 0	68 + 12.3	18 + 0	68 + 12.9	18 + 1.6
19 + .1	69 + 12.4	19 + 0	69 + 13.6	19 + 6.0
20 + 0	70 + 10.6	20 + 0	70 + 11.1	20 + .1
21 + .1	71 + 10.8	21 + 0	71 + 10.3	21 + 2.3
22 + 0	72 + 10.9	22 + 0	72 + 9.9	22 + 1.7
23 + 0	73 + 11.1	23 + 0	73 + 10.7	23 + .1
24 + 0	74 + 11.8	24 + .2	74 + 3.5	24 + .1
25 + 0	75 + 12.0	25 + .1	75 + 4.5	25 + .1
26 + 0	76 + 12.7	26 + .1	76 + 5.9	26 + 17.0
27 + 0	77 + 12.9	27 + .1	77 + 8.4	27 + .8
28 + 0	78 + 11.0	28 + .1	78 + 10.5	28 + .8
29 + .1	79 + 11.6	29 + .1	79 + 14.1	29 + 2.3
30 + .1	80 + 12.2	30 + .1	80 + 12.5	30 + .1
31 + .1	81 + 12.0	31 + 0	81 + 10.8	
32 + .1	82 + 12.1	32 + 0	82 + 11.3	
33 + .1	83 + 10.1	33 + 0	83 + 11.7	
34 + .1	84 + 5.7	34 + 0	84 + 11.8	
35 + .1	85 + 10.9	35 + 0	85 + 11.8	
36 + .1	86 + 11.7	36 + 0	86 + 11.9	
37 + .1	87 + 12.1	37 + 0	87 + 10.6	
38 + .1	88 + 4.8	38 + 0	88 + 13.0	
39 + .1	89 + 9.5	39 + 0	89 + 12.8	
40 + .1	90 + 12.3	40 + 0	90 + 10.4	
41 + .1	91 + 11.4	41 + 0	91 + 11.4	
42 + .1	92 + 2.8	42 + 0	92 + 9.9	
43 + .1	93 + 12.0	43 + 0	93 + 12.0	
44 + .1	94 + 11.4	44 + 0	94 + 10.4	
45 + .1	95 + 11.0	45 + 0	95 + 10.6	
46 + .1	96 + 11.5	46 + 0	96 + 11.0	
47 + .1	97 + 9.0	47 + 0	97 + 11.2	
48 + .1	98 + 3.0	48 + 0	98 + 12.7	
49 + .1	99 + 2.3	49 + 0	99 + 13.0	
50 + .1	100 + .1	50 + 0	100 + .1	

Seq. 5

2356 .10 30° .10 0 10.0 -2.5° 1.048 2048.8 .002249

a) 1 + .1	51 + .1	b) 1 + 0	51 + .1	c) 1 + .2
2 + .1	52 + 5.0	2 - .1	52 + 3.7	2 + 3.7
3 + .1	53 + .8	3 - .1	53 + .9	3 + .4
4 + .1	54 + 11.3	4 - .1	54 + 3.9	4 + .6
5 + .1	55 + 12.2	5 - .1	55 + 4.2	5 + .7
6 + .1	56 + 13.1	6 - .1	56 + 3.1	6 + .7
7 + .1	57 + 14.3	7 - .1	57 + 4.9	7 + 10.5
8 + .1	58 + 10.4	8 - .1	58 + 6.7	8 + 15.2
9 + .1	59 + 9.9	9 - .1	59 + 9.0	9 + 2.2
10 + .1	60 + 10.9	10 - .1	60 + 13.6	10 + 3.9
11 + .3	61 + 11.8	11 - .1	61 + 13.7	11 + 2.7
12 + 0	62 + 9.8	12 - .1	62 + 11.7	12 + .1
13 + .3	63 + 10.7	13 - .1	63 + 11.7	13 + .1
14 + .3	64 + 13.9	14 - .1	64 + 4.4	14 + .1
15 + 0	65 + 14.2	15 - .1	65 + 4.9	15 + .1
16 + 0	66 + 12.6	16 - .1	66 + 5.7	16 + 15.0
17 + 0	67 + 8.7	17 - .1	67 + 7.0	17 + 1.8
18 + 0	68 + 10.9	18 - .1	68 + 11.0	18 + 1.8
19 + 0	69 + 11.5	19 - .1	69 + 14.1	19 + 4.0
20 + 0	70 + 9.8	20 - .1	70 + 12.1	20 + .1
21 + 0	71 + 9.8	21 - .1	71 + 9.7	21 + 2.3
22 + 0	72 + 9.9	22 - .1	72 + 7.9	22 + .1
23 + 0	73 + 10.7	23 - .1	73 + 8.8	23 + .1
24 + .4	74 + 12.1	24 - .1	74 + 4.4	24 + .1
25 + .3	75 + 12.2	25 - .1	75 + 5.9	25 + .1
26 + .3	76 + 12.2	26 - .1	76 + 7.0	26 + 20.6
27 + .3	77 + 12.0	27 - .1	77 + 8.5	27 + .1
28 + .3	78 + 12.7	28 - .1	78 + 9.1	28 + .2
29 + .3	79 + 11.3	29 - .1	79 + 9.9	29 + 2.2
30 + .3	80 + 11.4	30 - .1	80 + 10.3	30 + .1
31 + .2	81 + 11.4	31 - .1	81 + 10.5	
32 + .2	82 + 12.1	32 - .1	82 + 10.5	Seq. 5
33 + .2	83 + 9.1	33 - .1	83 + 10.6	
34 + .2	84 + 4.4	34 - .1	84 + 11.1	
35 + .2	85 + 10.3	35 - .1	85 + 11.7	
36 + .2	86 + 10.5	36 - .1	86 + 10.9	
37 + .2	87 + 11.4	37 - .1	87 + 7.0	
38 + .2	88 + 5.4	38 - .1	88 + 10.5	
39 + .3	89 + 11.0	39 - .1	99 + 19.2	
40 + 0	90 + 9.5	40 - .1	90 + 10.5	
41 + 0	91 + 10.1	41 - .1	91 + 10.3	
42 + 0	92 + 2.6	42 - .1	92 + 7.5	
43 + 0	93 + 11.4	43 - .1	93 + 14.1	
44 + 0	94 + 10.0	44 - .1	94 + 9.9	
45 + 0	95 + 9.9	45 - .1	95 + 10.5	
46 + 0	96 + 10.7	46 - .1	96 + 1.1	
47 + 0	97 + 8.7	47 - .1	97 + 11.1	
48 + 0	98 + 2.7	48 - .1	98 + 12.3	
49 + 0	99 + 3.1	49 - .1	99 + 13.0	
50 + 0	100 + .1	50 - .1	100 + .2	

2357 .10 30° .10 0 10.0 -5.0° 1.048 2048.8 .002249

a) 1 + 0	51 + .2	b) 1 + 0	51 + .1	c) 1 + .2
2 + 0	52 + 4.1	2 + 0	52 + 4.1	2 + 3.5
3 + 0	53 + .6	3 + 0	53 + 1.6	3 + 1.2
4 - 3.3	54 + 8.1	4 + 0	54 + 3.9	4 + 1.7
5 - .1	55 + 11.1	5 + 0	55 + 4.1	5 + 1.9
6 - .1	56 + 12.6	6 - .1	56 + 3.2	6 + 2.0
7 - .1	57 + 13.4	7 - .1	57 + 3.3	7 + 6.6
8 - .1	58 + 7.8	8 - .1	58 + 4.7	8 + 11.5
9 - .1	59 + 7.9	9 - .1	59 + 7.6	9 + 4.0
10 - .1	60 + 9.8	10 - .1	60 + 9.7	10 + 4.6
11 + 0	61 + 10.6	11 - .1	61 + 15.9	11 + 3.8
12 + 0	62 + 5.9	12 - .1	62 + 12.3	12 + .1
13 + 0	63 + 9.6	13 - .1	63 + 10.0	13 + .1
14 + 0	64 + 12.6	14 - .1	64 + 3.8	14 + .1
15 + 0	65 + 13.0	15 - .1	65 + 4.8	15 + .1
16 + 0	66 + 10.4	16 - .1	66 + 5.5	16 + 14.5
17 + 0	67 + 6.5	17 - .1	67 + 6.0	17 + .5
18 + 0	68 + 10.0	18 - .1	68 + 9.6	18 + 1.4
19 + 0	69 + 10.7	19 - .1	69 + 13.2	19 + 6.4
20 - .1	70 + 9.2	20 - .1	70 + 13.1	20 + .1
21 - .1	71 + 7.1	21 - .1	71 + 8.4	21 + 4.1
22 - .1	72 + 8.8	22 - .1	72 + 6.3	22 + .1
23 + 0	73 + 10.0	23 - .1	73 + 8.1	23 + .2
24 - .1	74 + 11.7	24 + 1.0	74 + 5.4	24 + .2
25 + 0	75 + 11.0	25 + .4	75 + 6.3	25 + .2
26 + 0	76 + 11.0	26 + .4	76 + 7.4	26 + 28.1
27 + 0	77 + 11.0	27 + .3	77 + 7.7	27 + .1
28 + 0	78 + 12.4	28 + .3	78 + 7.8	28 + .8
29 + 0	79 + 9.4	29 + .3	79 + 8.1	29 + 4.0
30 + 0	80 + 9.6	30 + .3	80 + 8.3	30 + .1
31 + 0	81 + 10.0	31 + 0	81 + 8.5	
32 + 0	82 + 1.2	32 + 0	82 + 8.9	Seq. 5
33 + 0	83 + 10.2	33 - .1	83 + 9.4	
34 + 0	84 + 3.9	34 - .1	84 + 10.4	
35 + 0	85 + 7.5	35 - .1	85 + 11.7	
36 + 0	86 + 9.7	36 - .1	86 + 12.0	
37 + 0	87 + 10.9	37 - .1	87 + 4.9	
38 + 0	88 + 7.1	38 + 0	88 + 10.8	
39 + 0	89 + 8.3	39 + 0	89 + 19.6	
40 + 0	90 + 7.8	40 - .1	90 + 9.9	
41 + 0	91 + 8.3	41 - .1	91 + 11.0	
42 + 0	92 + 2.6	42 - .1	92 + 7.1	
43 + 0	93 + 10.4	43 - .1	93 + 13.3	
44 + 0	94 + 10.3	44 - .1	94 + 10.1	
45 + 0	95 + 9.2	45 - .1	95 + 10.3	
46 + 0	96 + 10.3	46 - .1	96 + 10.7	
47 + 0	97 + 9.0	47 - .1	97 + 10.8	
48 + 0	98 + 2.6	48 - .1	98 + 12.2	
49 + 0	99 + 3.0	49 - .1	99 + 12.8	
50 + 0	100 + .1	50 - .1	100 + .2	

2398 .10 30⁰ .05 0 10.0 +2.5⁰ 1.048 2046.7 .002249

a) 1 - .1	51 + .1	b) 1 - .1	51 + .1	c) 1 + .2
2 + .1	52 + 4.4	2 - .1	52 + 4.0	2 +15.3
3 + .1	53 + 1.1	3 + 0	53 + .6	3 +11.1
4 - 1.1	54 +25.3	4 + 0	54 + 6.4	4 +11.4
5 - .6	55 +23.9	5 + 0	55 + 9.1	5 +11.5
6 + 0	56 +23.0	6 + 0	56 + 9.2	6 +11.6
7 + 0	57 +23.8	7 + 0	57 +15.8	7 +25.3
8 + 0	58 +23.6	8 + 0	58 +19.1	8 +34.1
9 + 0	59 +21.5	9 + .1	59 +19.7	9 +13.9
10 + 9.6	60 +21.7	10 - .1	60 +20.1	10 +16.5
11 - 1.8	61 +21.9	11 + 2.1	61 +20.3	11 +11.9
12 - .7	62 +21.3	12 - .1	62 +21.0	12 +10.3
13 + 0	63 +21.3	13 + .1	63 +21.4	13 + 9.5
14 + 0	64 +23.5	14 + .8	64 + 3.1	14 + 7.5
15 + 0	65 +24.2	15 + .2	65 + 4.1	15 + 9.3
16 + 0	66 +22.1	16 + .2	66 + 8.7	16 +24.9
17 + .1	67 +21.4	17 + .2	67 +14.5	17 +10.5
18 - .9	68 +21.9	18 + .2	68 +19.3	18 +11.2
19 - .7	69 +22.1	19 + .2	69 +20.0	19 +14.5
20 + .1	70 +18.6	20 + .2	70 +19.5	20 + .2
21 + .1	71 +20.0	21 - .1	71 +19.5	21 +12.1
22 + .1	72 +20.9	22 - .1	72 +19.7	22 +11.6
23 + .1	73 +21.5	23 - .1	73 +20.0	23 + 9.4
24 + .1	74 +21.4	24 - .1	74 + 1.8	24 + 9.4
25 - 1.8	75 +23.0	25 - .1	75 + 1.2	25 + 9.4
26 + 0	76 +23.9	26 + 0	76 + .2	26 +21.2
27 + 0	77 +23.7	27 + 0	77 + 8.7	27 + 8.1
28 + 0	78 +20.0	28 + 0	78 +17.5	28 + 9.9
29 + 0	79 +22.1	29 + .1	79 +24.3	29 +10.5
30 + 0	80 +22.7	30 + .1	80 +24.6	30 + .1
31 + 0	81 +22.7	31 + .1	81 +21.0	
32 - 3.0	82 +22.7	32 + .1	82 +22.0	Seq. 5
33 + .1	83 +15.8	33 + .1	83 +22.3	
34 + 0	84 +14.3	34 + .1	84 +21.2	
35 + 0	85 +20.9	35 + .1	85 +21.4	
36 + .1	86 +22.0	36 + .1	86 +21.7	
37 + .1	87 +22.6	37 + .1	87 +17.9	
38 + .2	88 + 2.4	38 + .1	88 +22.1	
39 - 4.6	89 +13.5	39 + .1	89 +21.0	
40 + 0	90 +23.7	40 + .1	90 +21.0	
41 + 0	91 +21.6	41 + .1	91 +21.1	
42 + 0	92 + 3.6	42 + .1	92 +19.1	
43 + 0	93 +22.4	43 + .1	93 +19.6	
44 + 0	94 +22.5	44 + .1	94 +20.0	
45 + 0	95 +20.6	45 + .1	95 +20.2	
46 + 0	96 +21.8	46 - .1	96 +21.0	
47 + 0	97 +16.3	47 - .1	97 +20.8	
48 + 0	98 + 3.0	48 - .1	98 +21.9	
49 + 0	99 + 3.1	49 - .1	99 +22.7	
50 + 0	100 + .1	50 - .1	100 + .2	

2399 .10 30° .05 0 10.0 0° 1.048 2046.7 .002249

a) 1 - .2	51 + .1	b) 1 - 0	51 + .1	c) 1 - .1
2 - .2	52 + 4.6	2 - 0	52 + 4.3	2 + 14.3
3 - .2	53 + 1.1	3 - .1	53 + .9	3 + 10.2
4 - 2.9	54 + 23.9	4 - .1	54 + 3.7	4 + 10.3
5 - .1	55 + 24.1	5 - .1	55 + 4.5	5 + 10.3
6 - .1	56 + 24.8	6 - .1	56 + 5.0	6 + 10.3
7 - .1	57 + 5.1	7 - .1	57 + 12.6	7 + 21.7
8 - .1	58 + 23.6	8 - .1	58 + 19.9	8 + 30.2
9 - .1	59 + 23.1	9 - .1	59 + 23.4	9 + 12.3
10 - 2.2	60 + 23.1	10 - .1	60 + 23.7	10 + 14.8
11 - 2.8	61 + 23.1	11 - .1	61 + 21.0	11 + 13.2
12 - 1.1	62 + 23.3	12 - .1	62 + 22.1	12 + 11.3
13 - 0	63 + 23.3	13 - .1	63 + 22.7	13 + 9.1
14 - 0	64 + 23.0	14 - .1	64 + 4.3	14 + 9.2
15 - 0	65 + 23.3	15 - .1	65 + 5.0	15 + 9.8
16 - 0	66 + 25.1	16 - .1	66 + 9.5	16 + 24.8
17 - 0	67 + 23.4	17 - .1	67 + 17.1	17 + 10.1
18 - 2.6	68 + 23.5	18 - .1	68 + 22.2	18 + 11.4
19 - 1.2	69 + 3.7	19 - .1	69 + 23.0	19 + 15.2
20 - .1	70 + 22.5	20 - .1	70 + 21.5	20 + .3
21 - .1	71 + 22.5	21 - .1	71 + 21.5	21 + 12.8
22 - .2	72 + 22.6	22 - .1	72 + 21.7	22 + 10.0
23 - .2	73 + 22.9	23 - .1	73 + 22.2	23 + 9.8
24 - .2	74 + 23.3	24 - .1	74 + 3.4	24 + 9.8
25 - 1.8	75 + 23.7	25 + 0	75 + 3.4	25 + 9.8
26 - 0	76 + 24.3	26 - .1	76 + 7.5	26 + 24.6
27 - 0	77 + 24.1	27 - 0	77 + 16.2	27 + 7.7
28 - 0	78 + 23.5	28 - 0	78 + 20.6	28 + 9.6
29 - .1	79 + 23.5	29 - 0	79 + 23.6	29 + 10.4
30 - .1	80 + 3.5	30 - 0	80 + 23.1	30 + .1
31 - 0	81 + 23.5	31 - .1	81 + 22.8	
32 - 2.8	82 + 3.5	32 - .1	82 + 22.8	Seq. 5
33 - .2	83 + 19.2	33 - .1	83 + 23.2	
34 - .2	84 + 12.7	34 - .1	84 + 23.4	
35 - .2	85 + 22.5	35 - .1	85 + 23.4	
36 - .2	86 + 22.9	36 - .1	86 + 23.4	
37 - .2	87 + 23.3	37 - .1	87 + 19.2	
38 - .2	88 + 3.9	38 - .1	88 + 23.4	
39 - 2.3	89 + 17.9	39 - .2	89 + 22.0	
40 - .2	90 + 21.5	40 - .2	90 + 22.3	
41 - .2	91 + 22.1	41 - 0	91 + 22.7	
42 - .2	92 + 4.4	42 - 0	92 + 19.0	
43 - .2	93 + 23.0	43 - 0	93 + 1.7	
44 - .2	94 + 23.1	44 - 0	94 + 22.2	
45 - .2	95 + 1.2	45 - 0	95 + 22.4	
46 - .2	96 + 22.7	46 - 0	96 + 22.6	
47 - .2	97 + 17.5	47 - 0	97 + 22.8	
48 - .2	98 + 3.4	48 - 0	98 + 23.8	
49 - .2	99 + 3.5	49 - 0	99 + 24.3	
50 - .2	100 + .1	50 - 0	100 + .2	

2400 .10 30° .05 0 10.0 -2.5° 1.048 2046.7 .002249

a)1 + .1	51 + .2	b)1 + 0	51 + .2	c)1 + .1
2 + .1	52 + 4.9	2 + 0	52 + 4.4	2 + 14.0
3 + .1	53 + .8	3 + 0	53 + 1.4	3 + 10.7
4 - 6.1	54 + 21.0	4 + 0	54 + 3.3	4 + 10.2
5 + .1	55 + 25.8	5 + 0	55 + 2.9	5 + 10.3
6 + .2	56 + 23.6	6 + 0	56 + 1.9	6 + 10.3
7 + .2	57 + 24.1	7 + 0	57 + 2.1	7 + 18.3
8 + .2	58 + 20.2	8 + 0	58 + 15.0	8 + 25.4
9 + .2	59 + 21.0	9 + 0	59 + 22.0	9 + 12.0
10 + .5	60 + 21.7	10 + 0	60 + 27.0	10 + 13.8
11 - 4.4	61 + 21.9	11 - 1.9	61 + 21.1	11 + 13.9
12 + .1	62 + 19.9	12 + .1	62 + 22.3	12 + 9.7
13 + .1	63 + 21.3	13 + .1	63 + 23.0	13 + 8.4
14 + .1	64 + 23.7	14 - 1.8	64 + 5.0	14 + 8.5
15 + .1	65 + 24.3	15 + 0	65 + 5.5	15 + 9.6
16 + .1	66 + 21.2	16 + 0	66 + 9.2	16 + 24.4
17 + .1	67 + 19.6	17 + 0	67 + 15.5	17 + 9.7
18 - 3.5	68 + 21.5	18 + 0	68 + 22.2	18 + 11.3
19 - .9	69 + 21.8	19 + 0	69 + 24.2	19 + 16.5
20 + 0	70 + 20.6	20 + 0	70 + 19.9	20 + .2
21 + 0	71 + 20.6	21 + 0	71 + 19.7	21 + 14.9
22 + 0	72 + 20.6	22 + 0	72 + 19.7	22 + 11.1
23 + 0	73 + 20.9	23 + 0	73 + 20.4	23 + 10.9
24 + 0	74 + 22.3	24 + .4	74 + 5.3	24 + 10.9
25 - 1.8	75 + 22.5	25 + .1	75 + 7.5	25 + 10.9
26 + .1	76 + 22.6	26 + .1	76 + 12.1	26 + 30.6
27 + .1	77 + 22.8	27 + .1	77 + 16.3	27 + 8.7
28 + .1	78 + 2.8	28 + .1	78 + 18.8	28 + 10.9
29 + .1	79 + 22.5	29 + .1	79 + 20.7	29 + 11.7
30 + .1	80 + 22.5	30 + .1	80 + 21.1	30 + .2
31 + .1	81 + 22.5	31 + .2	81 + 21.2	
32 - 2.4	82 + 22.5	32 + 0	82 + 21.3	Seq. 5
33 + .1	83 + 17.2	33 + 0	83 + 21.5	
34 + 0	84 + 12.5	34 + 0	84 + 22.2	
35 + 0	85 + 20.4	35 + 0	85 + 22.6	
36 + 0	86 + 21.1	36 + 0	86 + 22.7	
37 + 0	87 + 21.9	37 + 0	87 + 15.1	
38 + .1	88 + 6.3	38 + .1	88 + 22.6	
39 - 1.1	89 + 18.1	39 + .1	89 + 24.9	
40 + .1	90 + 19.3	40 + 0	90 + 21.6	
41 + 0	91 + 20.3	41 + 0	91 + 2.1	
42 + 0	92 + 3.8	42 + 0	92 + 16.8	
43 + 0	93 + 21.0	43 + 0	93 + 21.3	
44 + 0	94 + 21.1	44 + 0	94 + 21.6	
45 + 0	95 + 20.1	45 + 0	95 + 1.7	
46 + 0	96 + 20.8	46 + 0	96 + 21.7	
47 + 0	97 + 16.3	47 + 0	97 + 21.7	
48 + 0	98 + 2.9	48 + 0	98 + 22.7	
49 + 0	99 + 3.4	49 + 0	99 + 23.2	
50 + 0	100 + .1	50 + 0	100 + .2	

2431 .10 30° .03 0 10.0 +2.5° 1.048 2052.4 .002296

a) 1 + 0	51 + .2	b) 1 - .1	51 + .2	c) 1 + .2
2 + 0	52 + 4.1	2 + 0	52 + 3.8	2 + 33.1
3 + 0	53 + .8	3 + 0	53 + 1.0	3 + 29.8
4 - 3.3	54 + 37.5	4 + 0	54 + 7.4	4 + 29.8
5 - 1.2	55 + 36.7	5 + 0	55 + 12.2	5 + 30.0
6 + 0	56 + 35.6	6 + 0	56 + 14.0	6 + 30.2
7 + 0	57 + 36.4	7 + 0	57 + 27.0	7 + 38.5
8 + 0	58 + 36.5	8 + 0	58 + 32.8	8 + 45.5
9 + 0	59 + 34.3	9 + .2	59 + 33.0	9 + 31.1
10 - 11.0	60 + 34.5	10 - .1	60 + 34.1	10 + 33.8
11 - 4.3	61 + 34.8	11 + 1.9	61 + 34.0	11 + 27.3
12 - 1.3	62 + 33.7	12 - .1	62 + 35.2	12 + 27.5
13 + .1	63 + 34.4	13 - .1	63 + 35.6	13 + 27.5
14 + .1	64 + 36.1	14 + .3	64 + 1.0	14 + 23.7
15 + .1	65 + 36.8	15 - .1	65 + .6	15 + 25.3
16 + .1	66 + 35.8	16 - .1	66 + 8.7	16 + 39.6
17 + .1	67 + 35.4	17 - .1	67 + 28.4	17 + 26.2
18 - 3.2	68 + 35.4	18 - .1	68 + 32.8	18 + 27.7
19 - 1.3	69 + 35.3	19 - .1	69 + 33.0	19 + 30.0
20 + .1	70 + 30.1	20 - .1	70 + 33.7	20 + .5
21 + .1	71 + 33.2	21 - .1	71 + 33.8	21 + 27.5
22 + .1	72 + 33.9	22 - .1	72 + 33.9	22 + 26.5
23 + .1	73 + 34.4	23 - .1	73 + 34.1	23 + 26.0
24 + .1	74 + 34.5	24 - 2.2	74 + 1.9	24 + 24.4
25 - 6.8	75 + 36.6	25 + 0	75 - 1.6	25 + 24.7
26 - 1.4	76 + 36.6	26 + 0	76 - 7.8	26 + 36.0
27 + .1	77 + 35.6	27 + 0	77 - .3	27 + 21.2
28 + .1	78 + 31.5	28 + 0	78 + 34.6	28 + 5.1
29 + .1	79 + 35.7	29 + 0	79 + 40.4	29 + 23.5
30 + .1	80 + 35.9	30 + 0	80 + 36.2	30 + .1
31 + .1	81 + 35.8	31 + 0	81 + 36.0	
32 - 7.4	82 + 35.8	32 + 0	82 + 36.1	
33 - 1.0	83 + 29.1	33 + 0	83 + 36.3	
34 + .1	84 + 20.7	34 + 0	84 + 36.1	
35 + .1	85 + 34.3	35 + 0	85 + 36.1	
36 + .1	86 + 34.4	36 + 0	86 + 36.1	
37 + .1	87 + 34.8	37 + 0	87 + 31.0	
38 + .1	88 + 1.5	38 + 0	88 + 36.7	
39 - 9.8	89 + 24.1	39 + 0	89 + 35.6	
40 + .1	90 + 34.6	40 + 0	90 + 35.6	
41 + .1	91 + 34.8	41 + 0	91 + 35.6	
42 + 0	92 + 4.8	42 + 0	92 + 33.4	
43 + 0	93 + 35.1	43 + 0	93 + 33.6	
44 + 0	94 + 35.1	44 + 0	94 + 34.3	
45 + 0	95 + 32.2	45 + 0	95 + 34.5	
46 + 0	96 + 34.2	46 + 0	96 + 35.0	
47 + 0	97 + 27.6	47 + 0	97 + 35.0	
48 + 0	98 + 3.7	48 + 0	98 + 36.0	
49 + 0	99 + 3.7	49 + 0	99 + 37.2	
50 + 0	100 + .2	50 + 0	100 + .1	

Seq. 5

2432 .10 30° .03 0 10.0 0° 1.048 2052.4 .002296

a) 1 + 0	51 + .1	b) 1 + 0	51 + .1	c) 1 + .2
2 + 0	52 + 3.9	2 + 0	52 + 3.8	2 + 31.8
3 + 0	53 + .8	3 + 0	53 + .9	3 + 28.0
4 - 6.3	54 + 38.9	4 + 0	54 + 1.8	4 + 28.4
5 - 1.6	55 + 39.6	5 + 0	55 + 2.0	5 + 28.5
6 + .1	56 + 39.7	6 + 0	56 + 3.5	6 + 28.5
7 + .1	57 + 39.7	7 + 0	57 + 23.8	7 + 38.7
8 + .1	58 + 36.8	8 + 0	58 + 35.2	8 + 44.2
9 + .1	59 + 37.1	9 + 0	59 + 37.8	9 + 29.8
10 + 2.7	60 + 37.5	10 + 0	60 + 38.0	10 + 32.4
11 - 6.4	61 + 37.7	11 - 3.8	61 + 38.0	11 + 30.7
12 - 1.6	62 + 37.8	12 + .1	62 + 38.1	12 + 27.8
13 + .1	63 + 38.0	13 + .1	63 + 33.4	13 + 27.0
14 + .1	64 + 39.0	14 - 2.5	64 + 2.0	14 + 26.5
15 + .1	65 + 39.7	15 + .2	65 + 2.0	15 + 27.0
16 + .1	66 + 38.1	16 + .2	66 + 12.4	16 + 39.8
17 + .1	67 + 38.0	17 + .2	67 + 30.3	17 + 28.5
18 - 6.3	68 + 38.2	18 + .2	68 + 36.0	18 + 28.9
19 - 1.1	69 + 38.2	19 + .2	69 + 36.9	19 + 31.6
20 + .1	70 + 36.1	20 + .2	70 + 37.0	20 + .2
21 + .1	71 + 36.7	21 + .2	71 + 37.1	21 + 30.7
22 + .1	72 + 37.0	22 + .2	72 + 37.3	22 + 27.0
23 + .1	73 + 37.3	23 + .2	73 + 37.5	23 + 25.8
24 + .1	74 + 37.7	24 - 2.5	74 + 1.9	24 + 25.8
25 - 6.5	75 + 38.6	25 + .2	75 + .2	25 + 25.4
26 - 1.2	76 + 38.8	26 + .3	76 + 8.6	26 + 39.8
27 - 1.0	77 + 38.6	27 + .3	77 + 8.6	27 + 23.0
28 + .1	78 + 37.0	28 + .3	78 + 35.9	28 + 28.0
29 + .1	79 + 37.7	29 + .3	79 + 36.9	29 + 25.0
30 + .1	80 + 37.9	30 + .3	80 + 37.2	30 + .1
31 + .1	81 + 38.0	31 + .3	81 + 37.4	
32 - 6.6	82 + 38.0	32 + .3	82 + 37.7	Seq. 5
33 - 1.1	83 + 33.0	33 + .3	83 + 37.9	
34 - .9	84 + 22.9	34 + .3	84 + 38.1	
35 + .1	85 + 37.4	35 + .3	85 + 38.1	
36 + .1	86 + 37.7	36 + 0	86 + 38.1	
37 + .1	87 + 37.8	37 + 0	87 + 33.7	
38 + .1	88 + 1.3	38 + 0	88 + 38.8	
39 - 6.1	89 + 31.8	39 + 0	89 + 36.0	
40 + .1	90 + 35.6	40 + 0	90 + 37.0	
41 + .2	91 + 37.0	41 + .1	91 + 37.6	
42 + .2	92 + 4.8	42 + 0	92 + 33.6	
43 + .3	93 + 37.9	43 + 0	93 + 37.2	
44 + .3	94 + 37.2	44 + 0	94 + 37.6	
45 + .3	95 + 34.8	45 + 0	95 + 37.7	
46 + .3	96 + 36.6	46 + 0	96 + 37.7	
47 + .3	97 + 30.2	47 + 0	97 + 37.8	
48 + .3	98 + 2.8	48 + 0	98 + 38.5	
49 + .3	99 + 3.1	49 + 0	99 + 39.1	
50 + .3	100 + .1	50 + 0	100 + .2	

2433 .10 30° .03 0 10.0 -2.5° 1.048 2052.4 .002296

a)1 + .1	51 + .2	b)1 + 0	51 + .1	c)1 + .3
2 + .1	52 + 4.8	2 + 0	52 + 4.6	2 + 29.9
3 + .1	53 + 1.2	3 + 0	53 + 1.2	3 + 25.7
4 -10.1	54 + 35.0	4 + 0	54 + 2.3	4 + 24.9
5 + .3	55 + 38.8	5 + 0	55 + .2	5 + 25.1
6 + .3	56 + 39.0	6 + 0	56 + 2.5	6 + 25.1
7 + .3	57 + 39.0	7 + 0	57 -17.1	7 + 34.4
8 + .3	58 + 33.7	8 + 0	58 + 32.1	8 + 40.5
9 + .3	59 + 35.9	9 + 0	59 + 38.5	9 + 27.9
10 - 1.2	60 + 36.3	10 + 0	60 + 40.5	10 + 29.5
11 - 8.3	61 + 36.5	11 - 4.6	61 + 35.9	11 + 30.1
12 + .1	62 + 36.1	12 + .1	62 + 36.7	12 + 27.4
13 + .1	63 + 36.6	13 + .1	63 + 36.9	13 + 25.1
14 + .3	64 + 38.1	14 - 4.1	64 + 2.6	14 + 25.1
15 + .3	65 + 38.7	15 + .1	65 + 3.1	15 + 27.0
16 + .4	66 + 35.4	16 + .1	66 + 12.9	16 + 37.4
17 + .4	67 + 35.4	17 + .1	67 + 29.1	17 + 23.7
18 - 8.2	68 + 36.2	18 + .1	68 + 36.3	18 + 26.8
19 - .5	69 + 36.4	19 + .1	69 + 36.8	19 + 33.4
20 + .1	70 + 34.7	20 + .1	70 + 34.2	20 + .1
21 + .1	71 + 34.9	21 + .1	71 + 34.2	21 + 23.7
22 + .2	72 + 35.1	22 + .1	72 + 34.2	22 + 30.6
23 + .2	73 + 35.5	23 + .1	73 + 34.8	23 + 29.1
24 + .2	74 + 36.5	24 - .4	74 + 5.3	24 + 29.2
25 - 4.4	75 + 36.9	25 + .3	75 + 9.6	25 + 28.5
26 + .2	76 + 37.0	26 + .3	76 + 20.4	26 + 42.8
27 + .2	77 + 37.2	27 + .3	77 + 29.5	27 + 24.9
28 + .2	78 + 37.2	28 + .3	78 + 32.3	28 + 30.1
29 + .2	79 + 36.7	29 + .3	79 + 34.1	29 + 27.2
30 + .2	80 + 36.7	30 + .3	80 + 34.7	30 + .2
31 + .2	81 + 36.7	31 + .3	81 + 34.9	
32 - 5.5	82 + 36.7	32 + .3	82 + 35.3	Seq. 5
33 - .8	83 + 31.6	33 + .3	83 + 35.5	
34 + .2	84 + 21.5	34 + .3	84 + 36.0	
35 + .2	85 + 35.1	35 + .1	85 + 36.3	
36 + .2	86 + 35.5	36 - .9	86 + 36.4	
37 + .2	87 + 36.0	37 + .1	87 + 29.9	
38 + .2	88 + 6.7	38 + .1	88 + 36.8	
39 - 2.2	89 + 31.6	39 + .1	89 + 34.2	
40 + .1	90 + 34.3	40 + .1	90 + 35.2	
41 + .1	91 + 34.8	41 + .1	91 + 35.8	
42 + 0	92 + 5.2	42 + .1	92 + 31.0	
43 + 0	93 + 36.3	43 + .1	93 + 34.6	
44 + 0	94 + 36.0	44 + .1	94 + 35.2	
45 + 0	95 + 32.8	45 + .1	95 + 35.4	
46 + 0	96 + 35.6	46 + 0	96 + 35.5	
47 + 0	97 + 29.2	47 + 0	97 + 35.5	
48 + 0	98 + 3.4	48 + 0	98 + 36.6	
49 + 0	99 + 3.5	49 + 0	99 + 37.0	
50 + 0	100 + .1	50 + 0	100 + .2	

2454 .10 30° .01 0 10.0 0° 1.048 2051.6 .002337

a) 1 + 0	51 .3	b) 1 - .1	51 .2	c) 1 .1
2 + 0	52 4.4	2 - .1	52 4.2	2 65.2
3 + 0	53 1.5	3 - .1	53 1.3	3 64.0
4 -11.5	54 67.9	4 - .1	54 .9	4 64.4
5 - .3	55 68.5	5 - .1	55 - 4.3	5 64.3
6 + .1	56 68.1	6 - .1	56 - 4.4	6 64.1
7 + .1	57 68.1	7 - .1	57 48.6	7 66.9
8 + .1	58 67.0	8 - .1	58 65.8	8 70.7
9 + .1	59 67.2	9 - .1	59 66.2	9 64.8
10 +11.0	60 67.2	10 - .1	60 66.4	10 65.5
11 -10.6	61 67.2	11 - 7.0	61 66.7	11 65.8
12 - .6	62 67.2	12 0	62 67.2	12 65.0
13 + .1	63 67.2	13 - .1	63 67.3	13 64.5
14 + .1	64 67.8	14 - 7.1	64 .1	14 61.1
15 + .1	65 68.1	15 0	65 - 4.6	15 63.6
16 + .1	66 68.0	16 0	66 - 2.4	16 69.3
17 + .1	67 67.1	17 0	67 63.2	17 64.0
18 -11.3	68 67.2	18 0	68 65.8	18 64.9
19 - 1.0	69 67.1	19 0	69 66.0	19 66.1
20 .1	70 65.8	20 0	70 66.2	20 .2
21 .1	71 66.0	21 0	71 66.3	21 64.9
22 .1	72 66.2	22 0	72 66.4	22 62.0
23 0	73 66.2	23 0	73 66.5	23 62.2
24 .1	74 66.8	24 - 5.7	74 .6	24 62.2
25 -11.8	75 67.4	25 .1	75 - 4.3	25 59.2
26 - 1.2	76 67.6	26 .1	76 - 4.3	26 68.1
27 .1	77 67.7	27 .1	77 61.3	27 54.1
28 .1	78 67.1	28 .1	78 66.1	28 63.6
29 .1	79 67.1	29 .1	79 66.2	29 55.0
30 .1	80 67.2	30 .1	80 66.3	30 .2
31 .1	81 67.2	31 .1	81 66.4	
32 -11.6	82 67.2	32 .1	82 66.6	
33 - 1.2	83 65.3	33 .1	83 66.8	
34 .1	84 61.8	34 .1	84 66.9	
35 .1	85 66.7	35 .1	85 66.9	
36 .1	86 66.8	36 .3	86 66.9	
37 .1	87 66.8	37 0	87 65.5	
38 .1	88 - 1.6	38 0	88 67.8	
39 -11.2	89 63.9	39 0	89 66.6	
40 .1	90 65.9	40 0	90 66.6	
41 + 0	91 66.1	41 + 0	91 66.6	
42 + 0	92 8.1	42 + 0	92 64.9	
43 + 0	93 68.1	43 + 0	93 66.0	
44 + 0	94 66.5	44 + 0	94 66.2	
45 + 0	95 62.2	45 + 0	95 66.3	
46 + 0	96 66.5	46 + 0	96 66.3	
47 + 0	97 55.7	47 + 0	97 66.3	
48 + 0	98 3.7	48 + 0	98 66.8	
49 0	99 3.9	49 0	99 67.2	
50 + 0	100 + .1	50 + 0	100 + .2	

Seq. 5

2490 .10 0° .25 0 10.0 +2.5° 1.049 2038.2 .002269

a)1 + 0	51 - .2	b)1 - 0	51 .3	c)1 .1
2 + 0	52 - 3.5	2 + 1.0	52 - 3.3	2 -10.3
3 + 0	53 - 3.6	3 + .1	53 - 2.9	3 -21.3
4 + 0	54 - 2.2	4 + .2	54 - 2.1	4 -25.8
5 + 0	55 - 2.1	5 + .2	55 - 2.0	5 -25.7
6 + 0	56 - 2.1	6 + .1	56 - 2.1	6 -23.3
7 + 0	57 - 2.1	7 + .1	57 - 2.3	7 -12.9
8 + 0	58 - 2.1	8 + .3	58 - 2.3	8 -23.0
9 + 0	59 - 2.6	9 + .6	59 - 2.4	9 -16.6
10 + 2.3	60 - 2.6	10 + .6	60 - 2.4	10 -24.5
11 + 0	61 - 2.5	11 + 2.5	61 - 2.4	11 - 8.2
12 + 0	62 - 3.3	12 + .1	62 - 2.4	12 -14.8
13 + 0	63 - 3.2	13 + .7	63 - 2.4	13 -24.9
14 + 0	64 - 2.6	14 + 2.3	64 .3	14 -23.2
15 + 0	65 - 2.0	15 + .1	65 .5	15 -17.2
16 + 0	66 - 2.3	16 + .4	66 .7	16 + 4.0
17 + 0	67 - 2.5	17 + .5	67 .7	17 -14.3
18 + 0	68 - 2.2	18 + .5	68 .6	18 -15.8
19 + 0	69 - 1.7	19 + .6	69 - .6	19 -22.5
20 + 0	70 - 2.2	20 + .1	70 - 2.1	20 + .2
21 + 0	71 - 2.2	21 + 0	71 - 2.8	21 - 2.2
22 + 0	72 - 1.7	22 + .1	72 - 2.7	22 - 9.0
23 + 0	73 - 1.1	23 + .7	73 - 2.3	23 -14.8
24 + 0	74 - 1.6	24 + 3.7	74 .2	24 -17.9
25 + 0	75 - 1.4	25 + .3	75 .7	25 - 2.6
26 + 0	76 .2	26 + .4	76 1.5	26 + 1.0
27 + .1	77 .4	27 + .4	77 3.3	27 + 1.6
28 + .1	78 .2	28 + .4	78 3.7	28 - 2.2
29 + .1	79 .2	29 + .5	79 2.4	29 - 5.4
30 + .1	80 .4	30 + .7	80 .4	30 - .1
31 + .1	81 1.3	31 + .2	81 .1	
32 + .1	82 1.5	32 + .3	82 .1	Seq. 5
33 + .1	83 + 2.9	33 + .3	83 + .1	
34 + .1	84 .3	34 + .4	84 .3	
35 + .1	85 .5	35 + .4	85 .6	
36 + .1	86 .6	36 + .1	86 .8	
37 + .1	87 .9	37 + .3	87 .9	
38 + .1	88 2.4	38 + .5	88 .7	
39 + .1	89 4.4	39 + .9	89 .7	
40 + .1	90 .8	40 + 0	90 .7	
41 + .1	91 .6	41 + 0	91 .9	
42 + 0	92 .2	42 + 0	92 1.6	
43 + 0	93 1.2	43 + 0	93 1.1	
44 + 0	94 1.4	44 + 0	94 1.0	
45 + 0	95 1.4	45 + 0	95 1.1	
46 + .1	96 1.4	46 + 0	96 1.2	
47 + .1	97 1.5	47 + 0	97 1.3	
48 + .1	98 .1	48 + 0	98 1.3	
49 + .1	99 .1	49 + 0	99 1.5	
50 + 0	100 + .1	50 + 0	100 + .1	

2491 .10 0° .25 0 10.0 0° 1.049 2038.2 .002269

a) 1 + 0	51 + .1	b) 1 + 0	51 + .2	c) 1 + .1
2 + 0	52 - 3.0	2 - .1	52 - 3.4	2 - 8.8
3 + 0	53 - 3.2	3 - .1	53 - 3.4	3 - 15.5
4 + 0	54 - 3.2	4 - .1	54 - 1.7	4 - 24.1
5 + 0	55 - 3.0	5 - .1	55 - 1.3	5 - 25.4
6 + 0	56 - 2.9	6 - .1	56 - 1.9	6 - 16.2
7 + 0	57 - 2.7	7 - .1	57 - 1.6	7 + 4.4
8 + 0	58 - 2.7	8 - .1	58 - 1.5	8 + 8.9
9 + 0	59 - 2.7	9 - .1	59 - 1.8	9 - 8.6
10 + 1.1	60 - 2.7	10 + 0	60 - 2.0	10 - 18.6
11 + 0	61 - 2.7	11 + 3.8	61 - 2.7	11 - 11.0
12 + 0	62 - 2.8	12 - .1	62 - 2.7	12 - 17.1
13 + 0	63 - 2.8	13 + .1	63 - 2.7	13 - 25.5
14 + 0	64 - 2.7	14 + 2.8	64 + .3	14 - 23.0
15 + 0	65 - 2.0	15 - .1	65 + .3	15 - 20.8
16 + 0	66 - 2.4	16 - .1	66 + .3	16 + 5.6
17 + 0	67 - 2.4	17 - .1	67 + .1	17 + 15.2
18 + 0	68 - 2.2	18 + 0	68 - .3	18 - 17.3
19 + 0	69 - 2.0	19 + .1	69 - 1.0	19 - 23.4
20 + 0	70 - 1.9	20 + .1	70 - 1.5	20 + .2
21 + 0	71 - 2.0	21 - .1	71 - 1.5	21 - 9.1
22 + 0	72 - 1.9	22 - .1	72 - 1.5	22 - 16.4
23 + 0	73 - 1.6	23 + .4	73 - 1.5	23 - 23.8
24 + 0	74 - 1.6	24 + 3.1	74 + .2	24 - 24.5
25 + 0	75 - 1.5	25 + 0	75 + .2	25 - 14.3
26 + 0	76 + .1	26 + 0	76 + .4	26 + 1.0
27 + 0	77 + .1	27 + 0	77 + .7	27 + 3.1
28 + 0	78 + .2	28 + 0	78 + .8	28 - 6.8
29 + 0	79 + .2	29 + 0	79 + .9	29 - 13.9
30 + 0	80 + .4	30 + .1	80 + .8	30 + .2
31 + 0	81 + .5	31 + .2	81 + .8	
32 + 0	82 + .5	32 + .3	82 + .8	Seq. 5
33 + 0	83 + 1.0	33 + .3	83 + .8	
34 + 0	84 + .3	34 + .3	84 + .8	
35 + 0	85 + .3	35 + .3	85 + .9	
36 + 0	86 + .5	36 + .2	86 + 1.0	
37 + 0	87 + .7	37 + .2	87 + 2.6	
38 + 0	88 + 1.6	38 + .2	88 + .6	
39 + 0	89 + 2.0	39 + .4	89 + .6	
40 + 0	90 + .1	40 - .1	90 + .9	
41 + 0	91 + .2	41 - .1	91 + 1.1	
42 + 0	92 + .1	42 - .1	92 + 2.3	
43 + 0	93 + .7	43 - .1	93 + 1.7	
44 + 0	94 + .9	44 - .1	94 + 1.7	
45 + 0	95 + 1.1	45 - .1	95 + 1.7	
46 + 0	96 + 1.3	46 - .1	96 + 1.7	
47 + 0	97 + 1.3	47 - .1	97 + 1.7	
48 + 0	98 + .2	48 - .1	98 + 1.7	
49 + 0	99 + .2	49 - .1	99 + 1.7	
50 + 0	100 + .2	50 - .1	100 + .1	

2492 .10 0° .25 0 10.0 -2.5° 1.049 2038.2 .002269

a)1 - .1	51 + .2	b)1 - .1	51 + .2	c)1 - .1
2 - .1	52 - 3.0	2 + .3	52 - 3.4	2 - 2.6
3 - .1	53 - 3.4	3 + .4	53 - 3.4	3 - 8.8
4 - .1	54 - 3.4	4 + .4	54 - 1.9	4 -16.2
5 - .1	55 - 3.3	5 + .5	55 + .3	5 -19.3
6 - .1	56 - 3.2	6 + .5	56 - .6	6 - 4.4
7 - .1	57 - 2.9	7 + .5	57 + .5	7 + 2.4
8 - .1	58 - 2.8	8 + .6	58 + .7	8 + 4.4
9 - .1	59 - 3.0	9 + .7	59 + .8	9 + .1
10 + .7	60 - 2.9	10 + 1.2	60 - .5	10 -10.4
11 - .1	61 - 2.7	11 + 4.2	61 - 2.4	11 -10.2
12 - .1	62 - 3.1	12 + .1	62 - 2.4	12 -17.4
13 - .1	63 - 3.1	13 + .9	63 - 2.4	13 - 4.7
14 - .1	64 - 2.9	14 + 3.1	64 - .6	14 -22.9
15 - .1	65 - 1.0	15 + .6	65 + .5	15 -21.2
16 - .1	66 - 2.9	16 + .4	66 + .6	16 + 7.2
17 - .1	67 - 2.9	17 + .6	67 - .2	17 +16.3
18 - .1	68 - 2.5	18 + .6	68 - .2	18 -20.4
19 - .1	69 - 2.1	19 + .6	69 - .4	19 -25.0
20 - .1	70 - 2.1	20 + .7	70 - 1.3	20 + .1
21 - .1	71 - 2.4	21 + .4	71 - 1.3	21 -13.4
22 - .1	72 - 2.3	22 + .4	72 - 1.4	22 -22.8
23 - .1	73 - 1.8	23 + .8	73 - 1.3	23 -30.5
24 - .1	74 - 1.7	24 + 3.7	74 - .9	24 -29.5
25 - .1	75 - 1.6	25 + .3	75 - .6	25 -25.5
26 - .1	76 + .1	26 + .4	76 - .5	26 + 7.9
27 - .1	77 + .2	27 + .4	77 - .4	27 -13.3
28 - .1	78 + .4	28 + .4	78 - .2	28 -13.8
29 - .1	79 + .4	29 + .5	79 - .2	29 -22.8
30 + 0	80 + .4	30 + 0	80 + .3	30 + .1
31 + 0	81 + .5	31 + .3	81 + .5	
32 + 0	82 + .7	32 + .3	82 + .5	Seq. 5
33 + 0	83 + 1.4	33 + .4	83 + .6	
34 + 0	84 + .7	34 + .4	84 + .6	
35 + 0	85 + .7	35 + .4	85 + 1.0	
36 + 0	86 + .8	36 + .1	86 + 1.2	
37 + 0	87 + .7	37 + .5	87 + 4.8	
38 + 0	88 + 1.2	38 + .8	88 + .7	
39 + 0	89 + 1.3	39 + 1.1	89 + 1.6	
40 + 0	90 + .9	40 + 0	90 + 1.7	
41 + 0	91 + .9	41 + 0	91 + 1.7	
42 + 0	92 + .1	42 + .1	92 + 4.4	
43 + 0	93 + .7	43 + .1	93 + 1.0	
44 + 0	94 + .9	44 + .1	94 + 1.1	
45 + 0	95 + .9	45 + .1	95 + 1.3	
46 - .1	96 + 1.1	46 + 0	96 + 1.6	
47 - .1	97 + 1.2	47 + 0	97 + 1.7	
48 - .1	98 + .3	48 + 0	98 + 1.8	
49 - .1	99 + .3	49 + 0	99 + 1.9	
50 - .1	100 + .1	50 + 0	100 + .2	

2533 .10 0° .15 0 10.0 +5.0° 1.049 2056.6 .002333

a) 1 + 0	51 + .1	b) 1 + 0	51 + .1	c) 1 + .1
2 + 0	52 - 3.2	2 + .1	52 - 3.6	2 -12.0
3 + 0	53 - 3.5	3 + .1	53 - 3.6	3 -23.0
4 - .9	54 + .2	4 + .1	54 - 2.2	4 -22.0
5 + 0	55 - .2	5 + .1	55 - 1.9	5 -21.4
6 + 0	56 - .9	6 + .1	56 - 2.5	6 -17.0
7 + 0	57 - .9	7 + .1	57 - 2.5	7 +20.8
8 + 0	58 - .9	8 + .1	58 - 2.4	8 +30.9
9 + 0	59 - 2.3	9 + .1	59 - 2.4	9 -16.1
10 + 1.1	60 - 1.5	10 + 1	60 - 2.4	10 -19.5
11 - .1	61 - 1.3	11 + 1.6	61 - 2.5	11 - 7.8
12 - .1	62 - 2.2	12 - .8	62 - 2.4	12 -14.8
13 - .1	63 - 2.0	13 + 0	63 - 2.3	13 -26.0
14 - .1	64 - 1.2	14 + 2.3	64 - 1.4	14 -21.4
15 - .1	65 - .4	15 - .1	65 + .3	15 -15.7
16 - .1	66 - 2.3	16 - .1	66 + 1.0	16 + 5.1
17 - .1	67 - 2.5	17 - .1	67 + 1.8	17 +16.0
18 - .1	68 - 1.1	18 - .1	68 + 2.2	18 -15.5
19 - .1	69 + 3	19 - .1	69 + .7	19 -21.6
20 - .1	70 - 2.2	20 - .1	70 - 2.4	20 + .2
21 - .1	71 - 2.0	21 - .1	71 - 2.9	21 - 2.1
22 + 0	72 + .3	22 - .1	72 - 2.8	22 - 5.8
23 + 0	73 + .4	23 - .1	73 - 1.8	23 - 8.7
24 + 0	74 - 2.4	24 + 1.5	74 - 1.9	24 -11.4
25 + 0	75 - 1.9	25 + 0	75 - 1.8	25 + .2
26 + 0	76 + .6	26 + .1	76 - .9	26 + .9
27 + 0	77 + 1.6	27 + .1	77 + 1.9	27 + 1.2
28 + 0	78 - 1.8	28 + .1	78 + 4.9	28 - 1.8
29 + 0	79 - .6	29 + .1	79 + 7.6	29 - 2.6
30 + 0	80 + 1.6	30 + .1	80 + 9.0	30 + .2
31 + 0	81 + 2.1	31 + 0	81 + 2.1	
32 + 0	82 + 2.3	32 + 0	82 + .7	Seq. 5
33 + 0	83 + 7.8	33 + .1	83 + .7	
34 + 0	84 + 2.8	34 + .1	84 + 1.3	
35 + 0	85 + .4	35 + 0	85 + 1.7	
36 + 0	86 + 1.2	36 + 0	86 + 2.0	
37 + 0	87 + 2.1	37 - .1	87 + .4	
38 + 0	88 + .3	38 - .1	88 + .7	
39 - .8	89 + 4.5	39 - .1	89 + .6	
40 + 0	90 + 9.1	40 - .1	90 + 1.5	
41 + 0	91 + .2	41 - .1	91 + 1.9	
42 + 0	92 + .1	42 - .1	92 + 2.1	
43 + 0	93 + .9	43 - .1	93 + .3	
44 + 0	94 + 1.4	44 - .1	94 + .8	
45 + 0	95 + 2.0	45 - .1	95 + 1.5	
46 + 0	96 + 2.5	46 - .1	96 + 2.0	
47 + 0	97 + 2.1	47 - .1	97 + 1.7	
48 + 0	98 + .1	48 - .1	98 + 2.0	
49 + 0	99 + .2	49 - .1	99 + 2.2	
50 + 0	100 + .2	50 - .1	100 + .1	

2534 .10 0° .15 0 10.0 +2.5° 1.048 2056.6 .002333

a)1 + .1	51 + .3	b)1 + 0	51 + .1	c)1 + .2
2 + .2	52 - 3.2	2 + .1	52 - 3.0	2 - 11.4
3 + .2	53 - 3.5	3 + .1	53 - 3.3	3 - 20.0
4 - 1.4	54 - .8	4 + .1	54 - 1.4	4 - 24.5
5 + .1	55 - .8	5 + .1	55 - .9	5 - 24.6
6 + .1	56 - 1.5	6 + .2	56 - 2.0	6 - 20.2
7 + .1	57 - 1.2	7 + .2	57 - 1.6	7 + 13.1
8 + .1	58 - 1.2	8 + .2	58 - 1.3	8 + 23.9
9 + .1	59 - 1.8	9 + .2	59 - 1.6	9 - 15.2
10 + .3	60 - 1.5	10 + .5	60 - 1.5	10 - 23.7
11 + .1	61 - 1.6	11 + 3.1	61 - 1.6	11 - 7.5
12 + .1	62 - 2.3	12 - .1	62 - 1.6	12 - 14.1
13 + 0	63 - 1.8	13 + .2	63 - 1.3	13 - 25.2
14 + 0	64 - 1.4	14 + 2.6	64 - .6	14 - 21.2
15 + 0	65 - 1.1	15 + .2	65 + 1.0	15 - 13.7
16 + 0	66 - 1.7	16 + .4	66 + .6	16 + 4.6
17 + 0	67 - 1.6	17 + .4	67 + 2.1	17 + 13.3
18 + 0	68 - 1.1	18 + .4	68 + 2.3	18 - 13.7
19 + 0	69 - .8	19 + .4	69 + .7	19 - 20.9
20 + 0	70 - 1.7	20 + .4	70 - 1.2	20 + .2
21 + 0	71 - 1.4	21 + .1	71 - 1.5	21 - 2.9
22 + 0	72 - .7	22 + .2	72 - 1.2	22 - 8.4
23 + 0	73 - .3	23 + .4	73 - .6	23 - 14.4
24 + 0	74 - 1.3	24 + 3.4	74 - 1.1	24 - 16.7
25 + 0	75 - .6	25 + .1	75 + .4	25 - 2.2
26 + 0	76 + .5	26 + .2	76 + 2.2	26 + 1.9
27 + 0	77 + 1.1	27 + .3	77 + 4.4	27 + 2.5
28 + 0	78 + .1	28 + .4	78 + 5.0	28 - 1.9
29 + 0	79 + .5	29 + .4	79 + 5.1	29 - 5.1
30 + 0	80 + 1.3	30 + .4	80 + 3.0	30 + .2
31 + 0	81 + 1.6	31 + .4	81 + 1.1	
32 + 0	82 + 1.8	32 + .4	82 + 1.2	
33 + 0	83 + 5.7	33 + .4	83 + 1.2	
34 + 0	84 + 1.0	34 + .4	84 + 1.9	
35 + 0	85 + 1.4	35 + .4	85 + 2.3	
36 + .1	86 + 1.7	36 - .1	86 + 2.4	
37 + .1	87 + 1.9	37 + 0	87 + 2.7	
38 + .1	88 + 1.8	38 + .1	88 + 1.7	
39 + .1	89 + 6.3	39 + .1	89 + 1.8	
40 + .1	90 + 2.8	40 + .1	90 + 2.1	
41 + .1	91 + .9	41 + 0	91 + 2.3	
42 + .1	92 + .1	42 + .1	92 + 3.3	
43 + .1	93 + 1.2	43 + .1	93 + 1.8	
44 + .1	94 + 1.8	44 + .2	94 + 2.0	
45 + .2	95 + 2.1	45 + .2	95 + 2.1	
46 + .2	96 + 2.0	46 + 0	96 + 2.5	
47 + .2	97 + 1.9	47 + .1	97 + 2.2	
48 + .2	98 + .1	48 + .1	98 + 2.5	
49 + .2	99 + .1	49 + .1	99 + 2.6	
50 + .2	100 + .1	50 + .1	100 + .1	

Seq. 5

2533 .10 0° .15 0 10.0 0° 1.048 2056.6 .002333

a) 1 + .1	51 + .1	b) 1 + 0	51 + .1	c) 1 + .1
2 + .3	52 - 3.1	2 + 0	52 - 2.8	2 - 6.7
3 + .3	53 - 3.6	3 + 0	53 - 3.6	3 -13.7
4 + .3	54 - .8	4 + 0	54 - 1.5	4 -20.7
5 + .3	55 - .6	5 + 0	55 - .8	5 -22.6
6 + .3	56 - 1.1	6 + 0	56 - 1.4	6 -12.5
7 + .3	57 - .8	7 + 0	57 - .4	7 + 5.2
8 + .3	58 - 1.4	8 + 0	58 - .2	8 +11.4
9 + .3	59 - 1.9	9 + 0	59 - .7	9 - 5.7
10 + .4	60 - 1.2	10 + 0	60 - 1.4	10 -17.4
11 + .1	61 - 1.2	11 + 3.8	61 - 1.8	11 - 7.6
12 + .1	62 - 2.0	12 - .1	62 - 1.7	12 -15.1
13 + .1	63 - 1.5	13 + .1	63 - 1.4	13 -23.0
14 + .2	64 - .7	14 + 2.5	64 - 1.1	14 -19.1
15 + .2	65 - .5	15 - .1	65 + .2	15 -16.4
16 + 0	66 - 1.5	16 - .1	66 + 1.3	16 + 6.0
17 + .2	67 - 1.3	17 - .1	67 + 1.7	17 +16.3
18 + .1	68 - .3	18 + .1	68 + 1.2	18 -13.7
19 + .1	69 - .2	19 + .1	69 + .3	19 -19.9
20 + .1	70 - 1.1	20 + 0	70 - .8	20 + .2
21 + .2	71 - .8	21 + 0	71 - 1.0	21 - 6.9
22 + .2	72 - .4	22 + .2	72 - .6	22 -13.3
23 + .2	73 + .7	23 + .3	73 - .4	23 -21.1
24 + .3	74 + .1	24 + 3.2	74 - .8	24 -23.3
25 + .3	75 + .3	25 + .1	75 + .4	25 - 9.6
26 + .3	76 + .5	26 + 0	76 + 1.1	26 + 3.4
27 + .3	77 + 1.3	27 + 0	77 + 1.8	27 + 5.3
28 + .3	78 + 1.0	28 + 0	78 + 2.0	28 - 5.8
29 + .3	79 + 1.1	29 + .1	79 + 1.8	29 -10.3
30 + .3	80 + 1.6	30 + .1	80 + 1.3	30 + .2
31 + .3	81 + 1.8	31 + .1	81 + 1.0	
32 + .3	82 + 1.9	32 + .3	82 + 1.5	
33 + .3	83 + 4.1	33 + .3	83 + 1.7	
34 + .3	84 + .9	34 + .3	84 + 1.9	
35 + .3	85 + 1.7	35 + .3	85 + 2.1	
36 + .3	86 + 2.0	36 - .1	86 + 2.2	
37 + .3	87 + 2.4	37 + 0	87 + 5.4	
38 + .3	88 + 2.2	38 + 0	88 + 1.7	
39 + .3	89 + 4.9	39 + 0	89 + 2.0	
40 + .3	90 + 2.2	40 + 0	90 + 2.2	
41 + .1	91 + 2.0	41 - .1	91 + 2.3	
42 + .1	92 + .1	42 - .1	92 + 4.8	
43 + .1	93 + 2.4	43 - .1	93 + 2.0	
44 + .1	94 + 2.6	44 + 0	94 + 1.9	
45 + .1	95 + 2.7	45 + 0	95 + 2.4	
46 + .1	96 + 2.8	46 + 0	96 + 2.6	
47 + .1	97 + 2.0	47 + 0	97 + 2.4	
48 + .1	98 + .1	48 + 0	98 + 2.5	
49 + .1	99 + .2	49 + 0	99 + 2.4	
50 + .1	100 + .2	50 + 0	100 + .1	

Seq. 5

2536 .10 0° .15 0 10.0 -2.5° 1.048 2056.6 .002333

a) 1 + 0	51 + .1	b) 1 + .2	51 + .1	c) 1 + .1
2 + 0	52 - 3.4	2 + .2	52 - 3.3	2 - 2.8
3 + 0	53 - 3.9	3 + .2	53 - 3.6	3 - 8.8
4 + 0	54 - 2.0	4 + .2	54 - 2.4	4 -14.7
5 + 0	55 - 1.2	5 + .2	55 - 1.3	5 -18.0
6 + 0	56 - 1.2	6 + .2	56 - 1.8	6 - 3.4
7 + 0	57 - 1.1	7 + .2	57 + .4	7 + 4.0
8 + 0	58 - 2.3	8 + .2	58 + 1.9	8 + 6.1
9 + .2	59 - 2.2	9 + .2	59 + 2.1	9 - .7
10 + .4	60 - 1.6	10 + .2	60 + 1.0	10 - 8.8
11 - .1	61 - 1.4	11 + 2.4	61 - 1.1	11 - 8.5
12 - .1	62 - 2.4	12 + 0	62 - 2.1	12 -17.2
13 - .1	63 - 1.8	13 + .2	63 - 2.2	13 -24.5
14 - .1	64 - 1.2	14 + 2.4	64 - 1.4	14 -19.1
15 + 0	65 - 1.0	15 + .2	65 + .2	15 -18.4
16 + 0	66 - 1.9	16 + .1	66 + .6	16 + 7.9
17 + 0	67 - 1.6	17 + .1	67 + 1.1	17 +17.7
18 + 0	68 - .7	18 + .1	68 + 1.3	18 -17.2
19 + 0	69 + .3	19 + .2	69 + .2	19 -23.7
20 + .1	70 - 1.3	20 + .2	70 - 1.2	20 + .2
21 + 0	71 - 1.3	21 + .1	71 - 1.6	21 -10.4
22 + 0	72 + .1	22 + .1	72 - .8	22 -21.0
23 + 0	73 + .1	23 + .2	73 - .5	23 -27.8
24 + .1	74 + .1	24 + 3.3	74 - .5	24 -26.6
25 + .1	75 + .1	25 + .1	75 - .5	25 -20.7
26 + 0	76 + .2	26 + .2	76 + .2	26 + 8.5
27 + 0	77 + .8	27 + .3	77 + .5	27 +14.0
28 + .1	78 + 1.0	28 + .2	78 + .7	28 -13.0
29 + .1	79 + 1.1	29 + .3	79 + 1.0	29 -20.8
30 + .1	80 + 1.3	30 + .3	80 + 1.2	30 + .2
31 - .1	81 + 1.4	31 + .3	81 + 1.2	
32 + 0	82 + 1.5	32 + .3	82 + 1.3	
33 + 0	83 + 2.8	33 + .3	83 + 1.4	
34 + 0	84 + .6	34 + .3	84 + 1.5	
35 + 0	85 + 1.2	35 + .3	85 + 1.7	
36 + 0	86 + 1.6	36 + .3	86 + 1.7	
37 + 0	87 + 1.9	37 + .3	87 + 7.8	
38 + 0	88 + 2.0	38 + .3	88 + 1.3	
39 + 0	89 + 2.3	39 + .7	89 + 3.5	
40 + 0	90 + 1.1	40 + 0	90 + 1.9	
41 + .1	91 + 1.6	41 + .1	91 + 1.9	
42 + .1	92 + .1	42 + .1	92 + 6.0	
43 + .1	93 + 1.9	43 + .1	93 + 2.2	
44 + .1	94 + 1.9	44 + .1	94 + 1.3	
45 + .1	95 + 2.0	45 + .1	95 + 1.9	
46 + 0	96 + 2.0	46 + .1	96 + 2.0	
47 + 0	97 + 1.6	47 + .1	97 + 2.2	
48 + 0	98 + .2	48 + .1	98 + 2.2	
49 + 0	99 + .2	49 + .1	99 + 2.3	
50 + 0	100 + .1	50 + .1	100 + .1	

Seq. 5

2537 .10 0° .15 0 10.0 -5.0° 1.048 2056.6 .002333

a) 1 - .1	51 + .1	b) 1 + 0	51 + .2	c) 1 + .1
2 - .1	52 - 3.5	2 + 0	52 - 3.9	2 - .9
3 + 0	53 - 3.8	3 + 0	53 - 4.2	3 - 6.0
4 + 0	54 - 3.7	4 + 0	54 - 3.3	4 - 9.3
5 + 0	55 - 2.6	5 + 0	55 - 2.4	5 - 12.0
6 - .1	56 - 1.5	6 + 0	56 - 2.9	6 + .2
7 + 0	57 - .9	7 - .1	57 - 1.6	7 + 2.5
8 + .1	58 - 3.6	8 - .1	58 + 1.3	8 + 3.2
9 + .2	59 - 3.5	9 - .1	59 + 3.7	9 + .2
10 + .3	60 - 1.2	10 - .1	60 + 5.4	10 - 5.3
11 + 0	61 - 1.3	11 + .2	61 + .5	11 - 10.0
12 + 0	62 - 3.4	12 + 0	62 - 1.7	12 - 17.1
13 + 0	63 - 2.8	13 + 0	63 - 2.9	13 - 25.7
14 + .1	64 - 1.6	14 + .6	64 - 1.6	14 - 21.5
15 + .2	65 - .8	15 + 0	65 + .2	15 - 18.7
16 + .2	66 - 3.0	16 - .1	66 + .9	16 + 7.6
17 + .2	67 - 2.4	17 - .1	67 + 2.3	17 + 17.8
18 + 0	68 - 1.0	18 - .1	68 + 2.5	18 - 19.9
19 + 0	69 - .6	19 - .1	69 + .4	19 - 24.2
20 + 0	70 - 1.8	20 - .1	70 - 1.9	20 + .2
21 + 0	71 - 1.8	21 - .1	71 - 2.4	21 - 13.4
22 + 0	72 - .9	22 - .1	72 - 2.2	22 - 25.4
23 + .1	73 - .4	23 - .1	73 - 1.7	23 - 24.6
24 + .1	74 - .3	24 + 1.8	74 - 1.6	24 - 23.9
25 + .1	75 - .7	25 - .1	75 - 1.5	25 - 19.9
26 + .1	76 + .4	26 - .1	76 - 1.1	26 + 18.2
27 + .1	77 + 1.4	27 - .1	77 + .2	27 + 21.4
28 + .1	78 + 1.8	28 - .1	78 + .2	28 - 19.5
29 + .1	79 + .8	29 - .1	79 + .2	29 - 19.3
30 + .2	80 + .9	30 + .2	80 + .2	30 + .2
31 + .2	81 + 2.1	31 + 0	81 + .2	
32 + .2	82 + 1.8	32 + 0	82 + .4	Seq. 5
33 + .1	83 + .1	33 + 0	83 + .6	
34 + .1	84 + .4	34 + 0	84 + .7	
35 + .2	85 + .6	35 + 0	85 + 1.1	
36 - .1	86 + 1.8	36 + 0	86 + 1.5	
37 + 0	87 + 1.3	37 + 0	87 + 7.5	
38 + 0	88 + 1.3	38 + .1	88 + .1	
39 + 0	89 + .6	39 + .2	89 + 9.4	
40 + 0	90 + 1.0	40 + 0	90 + 1.1	
41 + .1	91 + .1	41 + 0	91 + 1.8	
42 + .1	92 + 1.9	42 - .1	92 + 5.6	
43 + .1	93 + 1.7	43 - .1	93 + 4.2	
44 + .1	94 + 1.8	44 - .1	94 + .1	
45 + .1	95 + 2.1	45 - .1	95 + 1.3	
46 - .1	96 + 1.8	46 - .1	96 + 2.4	
47 + 0	97 + .1	47 - .1	97 + 1.4	
48 + 0	98 + .1	48 - .1	98 + 1.9	
49 + 0	99 + .1	49 - .1	99 + 2.1	
50 + 0	100 + .1	50 - .1	100 + .1	

2588 .10 0° .10 0 10.0 +5.0° 1.048 2061.5 .002316

a) 1 + 0	51 + .1	b) 1 + .1	51 + .1	c) 1 + .2
2 + 0	52 - 2.9	2 + .1	52 - 3.2	2 - 11.1
3 + 0	53 - 3.6	3 + .1	53 - 3.8	3 - 21.7
4 - 1.2	54 + 1.9	4 + .1	54 + .2	4 - 21.7
5 + 0	55 + .6	5 + .1	55 + .2	5 - 21.3
6 + 0	56 + .2	6 + .1	56 - 1.7	6 - 18.7
7 + 0	57 + .2	7 + 0	57 - 1.3	7 + 20.2
8 + 0	58 + .2	8 + 0	58 + .2	8 + 29.0
9 + 0	59 - .3	9 + 0	59 - .7	9 - 15.7
10 + 0	60 - .5	10 + 0	60 - .8	10 - 20.6
11 + 0	61 - .4	11 + .8	61 - .8	11 - 5.9
12 + 0	62 - 1.4	12 + 0	62 - .8	12 - 12.3
13 + 0	63 - 1.2	13 + 0	63 - .8	13 - 23.8
14 + 0	64 + .3	14 + .8	64 - 1.8	14 - 22.8
15 + 0	65 + .6	15 + .1	65 + .2	15 - 12.4
16 - .1	66 - 1.6	16 + .1	66 + 1.4	16 + 1.7
17 - .1	67 - 1.1	17 + 0	67 + 2.4	17 + 9.1
18 - .1	68 + .4	18 + 0	68 - 3.0	18 - 9.4
19 - .1	69 + .9	19 + 0	69 + 2.5	19 - 18.5
20 - .1	70 - 1.8	20 + 0	70 + .1	20 + 2
21 - .1	71 + .4	21 + 0	71 - 1.2	21 - 1.6
22 - .1	72 + 1.6	22 + 0	72 - .8	22 - 6.4
23 - .1	73 + 1.6	23 + 0	73 + .2	23 - 10.3
24 - .1	74 - 1.8	24 + 0	74 - 2.1	24 - 10.7
25 + 0	75 + 1.2	25 + 0	75 - 2.5	25 + .2
26 + 0	76 + 2.3	26 + 0	76 - 1.9	26 + .5
27 + 0	77 + 2.9	27 + 0	77 + .7	27 - .9
28 - .1	78 - 1.5	28 + 0	78 + 3.3	28 - 2.3
29 + 0	79 + 2.3	29 + 0	79 + 8.0	29 - 2.9
30 + .1	80 + 3.6	30 + 0	80 + 10.5	30 + .1
31 + .1	81 + 3.6	31 + 0	81 + 2.8	
32 - 2.2	82 + 3.6	32 + 0	82 + 2.0	Seq. 5
33 + 0	83 + 8.6	33 + 0	83 + 2.2	
34 + 0	84 + 4.7	34 + 0	84 + 2.5	
35 + 0	85 + 2.0	35 + 0	85 + 2.6	
36 + 0	86 + 2.9	36 + 0	86 + 2.9	
37 - .1	87 + 3.4	37 + 0	87 + 1.7	
38 - .1	88 - .2	38 + 0	88 + 2.0	
39 - 1.7	89 + 2.9	39 + 0	89 + 2.1	
40 + 0	90 + 11.5	40 + 0	90 + 2.5	
41 + 0	91 + 2.2	41 + 0	91 + 3.0	
42 + 0	92 + .7	42 + 0	92 + .5	
43 + 0	93 + 4.4	43 + 0	93 + 1.8	
44 + 0	94 + 3.8	44 + 0	94 - 2.3	
45 + 0	95 + 3.9	45 + 0	95 + 2.7	
46 + 0	96 + 4.0	46 + 0	96 + 3.0	
47 + 0	97 + 3.1	47 + 0	97 + 3.1	
48 + 0	98 + .4	48 + 0	98 + 3.1	
49 + 0	99 + .6	49 + 0	99 + 3.5	
50 + 0	100 + .2	50 + 0	100 + .1	

2589 .10 0° .10 0 10.0 +2.5° 1.049 2061.5 .002316

a) 1 + .1	51 + .2	b) 1 + .1	51 + .1	c) 1 + .2
2 + .1	52 - 3.2	2 + .1	52 - 3.3	2 - 7.3
3 + .1	53 - 4.1	3 + .1	53 - 3.8	3 - 16.0
4 - 2.1	54 + 1.2	4 + .1	54 - 1.0	4 - 2.8
5 + .1	55 + .9	5 + .1	55 + .2	5 - 22.3
6 + .1	56 + .2	6 + .1	56 - 1.1	6 - 18.8
7 + .1	57 + .3	7 + .1	57 + .2	7 + 13.6
8 + .1	58 + .5	8 + .1	58 + .5	8 + 21.6
9 + .1	59 + .1	9 + .1	59 + .5	9 - 9.1
10 + .1	60 + .1	10 + .1	60 + .2	10 - 19.8
11 - .8	61 + .1	11 + 2.0	61 + .1	11 - 4.6
12 + .1	62 + .2	12 + .1	62 + .2	12 - 10.7
13 + .1	63 + .1	13 + .1	63 + .3	13 - 20.3
14 + .1	64 + .2	14 + 1.1	64 - 1.2	14 - 19.9
15 + .1	65 + .4	15 + 0	65 + .3	15 - 12.1
16 + .1	66 + .2	16 + 0	66 + 1.4	16 + 5.4
17 + .1	67 + .2	17 + 0	67 + 3.1	17 + 14.1
18 - 2.0	68 + .5	18 + 0	68 + 3.9	18 - 9.6
19 + .1	69 + .7	19 + 0	69 + 2.5	19 - 18.6
20 + .1	70 + .2	20 + 0	70 + .4	20 + .2
21 + .1	71 + .3	21 + 0	71 + .2	21 - 1.8
22 + .1	72 + 1.0	22 + 0	72 + .2	22 - 7.9
23 + .1	73 + 1.3	23 + 0	73 + .8	23 - 13.3
24 + .1	74 + .2	24 + .2	74 - 1.3	24 - 16.1
25 - .6	75 + .7	25 + 0	75 - 1.4	25 + .1
26 + .1	76 + 1.8	26 + 0	76 + .6	26 + 2.1
27 + .1	77 + 2.3	27 + 0	77 + 3.1	27 + 3.1
28 + .1	78 + 1.1	28 + 0	78 + 5.4	28 + .2
29 + .1	79 + 2.1	29 + 0	79 + 6.1	29 - 4.5
30 + .1	80 + 2.9	30 + 0	80 + 4.5	30 + .1
31 + .1	81 + 3.1	31 + 0	81 + 2.7	
32 - 1.3	82 + 3.2	32 + 0	82 + 2.7	
33 + 0	83 + 7.0	33 + 0	83 + 2.6	
34 + 0	84 + 2.1	34 + 0	84 + 3.0	
35 + 0	85 + 2.6	35 + 0	85 + 3.2	
36 + 0	86 + 3.5	36 + 0	86 + 3.4	
37 + 0	87 + 3.6	37 + 0	87 + 3.7	
38 + 0	88 + .1	38 + 0	88 + 3.5	
39 - 2.5	89 + 6.1	39 + 0	89 + 3.5	
40 + .1	90 + 5.9	40 + 0	90 + 3.5	
41 + .1	91 + 2.4	41 + 0	91 + 3.6	
42 + .1	92 + .1	42 + 0	92 + 4.3	
43 + 0	93 + 4.1	43 + 0	93 + 3.0	
44 + 0	94 + 3.6	44 + 0	94 + 3.3	
45 + 0	95 + 3.8	45 + 0	95 + 3.6	
46 + 0	96 + 3.9	46 + 0	96 + 3.8	
47 + 0	97 + 2.7	47 + 0	97 + 3.9	
48 + 0	98 + .1	48 + 0	98 + 3.9	
49 + 0	99 + .1	49 + 0	99 + 3.9	
50 + 0	100 + .1	50 + 0	100 + .1	

Seq. 5

2590 .10 0° .10 0 10.0 0° 1.049 2061.5 .002316

a) 1 + 0	51 + .2	b) 1 + 0	51 + .2	c) 1 + .1
2 + 0	52 - 3.6	2 + 0	52 - 3.8	2 - 4.0
3 + 0	53 - 3.7	3 + 0	53 - 3.9	3 - 10.7
4 - 2.6	54 + 1.2	4 + 0	54 - 2.4	4 - 19.3
5 + 0	55 + 1.5	5 + 0	55 + .2	5 - 19.8
6 - .1	56 + 1.5	6 + 0	56 + .2	6 - 11.1
7 - .1	57 + 1.5	7 + 0	57 + .2	7 + 6.7
8 - .1	58 + 1.0	8 + 0	58 + 1.2	8 + 12.0
9 - .1	59 + .3	9 + 0	59 + 1.2	9 - 2.4
10 - .1	60 + .6	10 + 0	60 + .9	10 - 14.3
11 - .1	61 + .7	11 + 1.6	61 + .1	11 - 5.7
12 - .1	62 + .4	12 + 0	62 + .1	12 - 12.8
13 - .1	63 + .5	13 + 0	63 + .2	13 - 20.3
14 - .1	64 + .9	14 + .8	64 - 1.9	14 - 17.3
15 - .1	65 + 1.2	15 + .1	65 + .2	15 - 14.7
16 - .1	66 + .2	16 + .1	66 + .9	16 + 7.3
17 - .1	67 + .5	17 + .1	67 + 2.3	17 + 17.1
18 - 2.1	68 + 1.2	18 + 0	68 + 3.9	18 - 11.4
19 - .1	69 + 1.4	19 + 0	69 + 2.1	19 - 13.1
20 - .1	70 + .6	20 + 0	70 + .3	20 + .2
21 - .1	71 + 1.6	21 + 0	71 + .3	21 - 5.3
22 - .1	72 + 1.3	22 + 0	72 + .4	22 - 10.4
23 - .1	73 + 1.8	23 + 0	73 + .8	23 - 19.0
24 - .1	74 + 1.7	24 + 1.1	74 - .9	24 - 20.2
25 - 1.3	75 + 1.9	25 + 0	75 + .2	25 - 8.8
26 - .1	76 + 2.3	26 + 0	76 + .8	26 + 3.0
27 - .1	77 + 3.1	27 + 0	77 + 2.1	27 + 5.4
28 - .1	78 + 2.8	28 + 0	78 + 2.8	28 - 1.6
29 - .1	79 + 2.9	29 + 0	79 + 2.9	29 - 8.5
30 - .1	80 + 3.4	30 + 0	80 + 2.9	30 + .1
31 - .1	81 + 3.5	31 + 0	81 + 2.9	
32 - .1	82 + 3.7	32 + 0	82 + 2.9	Seq. 5
33 - .1	83 + 5.9	33 + 0	83 + 3.2	
34 - .1	84 + 2.0	34 + 0	84 + 3.4	
35 - .1	85 + 3.6	35 + 0	85 + 3.5	
36 - .1	86 + 3.7	36 + 0	86 + 3.6	
37 - .1	87 + 3.9	37 + 0	87 + 6.2	
38 - .1	88 + 1.4	38 + 0	88 + 3.1	
39 - .1	89 + 6.3	39 + 0	89 + 3.4	
40 - .1	90 + 3.5	40 + 0	90 + 3.6	
41 - .1	91 + 3.7	41 + 0	91 + 3.8	
42 - .1	92 + .1	42 + 0	92 + 5.2	
43 - .1	93 + 3.9	43 + 0	93 + 3.1	
44 - .1	94 + 4.0	44 + 0	94 + 3.4	
45 - .1	95 + 4.0	45 + 0	95 + 3.8	
46 - .1	96 + 4.1	46 + 0	96 + 3.9	
47 - .1	97 + 3.8	47 + 0	97 + 4.1	
48 - .1	98 + .1	48 + 0	98 + 4.1	
49 - .1	99 + .1	49 + 0	99 + 4.1	
50 - .1	100 + .1	50 + 0	100 + .1	

2591 .10 0° .10 0 10.0 -2.5° 1.048 2061.5 .002316

a) 1 + 0	51 + .2	b) 1 - .1	51 + .2	c) 1 + .1
2 + 0	52 - 4.4	2 - .1	52 - 4.3	2 - 2.4
3 + 0	53 - 4.4	3 - .1	53 - 4.5	3 - 7.8
4 - 2.8	54 + .1	4 - .1	54 - 3.9	4 -15.4
5 + 0	55 + .3	5 - .1	55 - 3.3	5 -16.8
6 + 0	56 + .2	6 - .1	56 - 3.3	6 - 3.6
7 + 0	57 + .2	7 - .1	57 - 1.6	7 + 3.7
8 + 0	58 + .1	8 - .1	58 + 1.9	8 + 5.6
9 + 0	59 + .1	9 - .1	59 + 2.1	9 + .1
10 + 0	60 + .1	10 - .1	60 + 1.9	10 - 9.6
11 - .8	61 + .1	11 + .7	61 + .1	11 - 9.1
12 - .1	62 - .9	12 - .1	62 + .1	12 -15.8
13 - .1	63 + .2	13 - .1	63 + .1	13 -21.7
14 - .1	64 + .2	14 - .1	64 - 2.4	14 -20.2
15 - .1	65 + .2	15 + 0	65 + .2	15 -18.5
16 - .1	66 + .2	16 + 0	66 + .3	16 + 8.1
17 - .1	67 + .2	17 + 0	67 + 1.2	17 +17.1
18 - .9	68 + .2	18 + 0	68 + 2.2	18 -15.2
19 + 0	69 + .2	19 + 0	69 + 1.6	19 -22.4
20 + 0	70 + .2	20 + 0	70 + .2	20 + .1
21 + 0	71 + .1	21 + 0	71 + .2	21 - 7.2
22 + 0	72 + .2	22 - .1	72 + .2	22 -16.2
23 + 0	73 + .3	23 - .1	73 + .3	23 -25.9
24 - .1	74 + .5	24 + 2.1	74 + .2	24 -25.8
25 - 1.5	75 + .7	25 - .1	75 + .2	25 -19.6
26 - .1	76 + .8	26 - .1	76 + .4	26 + 7.3
27 - .1	77 + 1.3	27 - .1	77 + .9	27 +10.2
28 - .1	78 + 1.6	28 - .1	78 + 1.3	28 - 7.2
29 - .1	79 + 1.7	29 - .1	79 + 1.7	29 -17.4
30 - .1	80 + 1.8	30 - .1	80 + 1.9	30 + .1
31 - .1	81 + 2.0	31 - .1	81 + 2.0	
32 - .1	82 + 2.1	32 - .1	82 + 2.2	
33 - .1	83 + 3.4	33 - .1	83 + 2.4	
34 - .1	84 + .5	34 - .1	84 + 2.5	
35 - .1	85 + 1.3	35 - .1	85 + 2.6	
36 - .1	86 + 1.8	36 - .1	86 + 2.8	
37 - .1	87 + 2.1	37 - .1	87 + 7.7	
38 - .1	88 + .4	38 - .1	88 + 2.1	
39 - .1	89 + 2.0	39 - .1	89 + 4.6	
40 - .1	90 + 1.9	40 - .1	90 + 2.6	
41 - .1	91 + 2.1	41 - .1	91 + 3.0	
42 - .1	92 + .1	42 - .1	92 + 5.5	
43 - .1	93 + 2.0	43 - .1	93 + 4.7	
44 - .1	94 + 2.7	44 - .1	94 + 2.9	
45 - .1	95 + 2.9	45 - .1	95 + 3.0	
46 - .1	96 + 3.0	46 - .1	96 + 3.1	
47 - .1	97 + 2.9	47 - .1	97 + 3.2	
48 - .1	98 + .1	48 - .1	98 + 3.2	
49 - .1	99 + .1	49 - .1	99 + 3.3	
50 - .1	100 + .1	50 - .1	100 + .1	

Seq. 5

2592 .10 0° .10 0 10.0 -5.0° 1.048 2061.5 .002316

a)1 - .1	51 : .1	b)1 - .1	51 : .1	c)1 + .1
2 - .1	52 - 4.3	2 - .1	52 - 4.3	2 + .1
3 - .1	53 - 4.3	3 - .1	53 - 4.3	3 - 5.9
4 - 4.0	54 - 4.1	4 - .1	54 - 3.8	4 -10.8
5 + 0	55 : .2	5 - .1	55 - 4.0	5 -12.3
6 + 0	56 + .2	6 - .1	56 - 4.5	6 + .1
7 + 0	57 : .2	7 - .1	57 - 4.3	7 + 2.0
8 + 0	58 - 3.1	8 - .1	58 - 1.1	8 + 3.0
9 + 0	59 - 2.5	9 - .1	59 : 3.5	9 + 1.0
10 + .5	60 : .2	10 - .1	60 : 5.3	10 - 2.7
11 - 3.2	61 : .2	11 - .1	61 : 2.1	11 - 8.7
12 + 0	62 - 2.8	12 - .1	62 : .1	12 -17.0
13 + 0	63 - 2.2	13 - .1	63 - .8	13 -25.0
14 + 0	64 : .1	14 - .1	64 - 3.3	14 -21.6
15 + 0	65 : .1	15 - .1	65 + .2	15 -19.2
16 + 0	66 - 2.0	16 - .1	66 : .4	16 + 6.8
17 + 0	67 - 1.9	17 - .1	67 : 1.3	17 -15.0
18 - 1.9	68 : .2	18 - .1	68 : 2.0	18 -17.1
19 - .1	69 : .2	19 - .1	69 : 2.0	19 -24.1
20 - .1	70 - .2	20 - .1	70 : .1	20 : .2
21 - .1	71 : .1	21 - .1	71 - 1.4	21 -13.9
22 - .1	72 : .1	22 - .1	72 - 1.4	22 -24.7
23 - .1	73 : .1	23 - .1	73 + .2	23 -26.9
24 - .1	74 : .2	24 + 2.1	74 - .9	24 -26.6
25 - 1.5	75 : .3	25 - .1	75 : .2	25 - 3.9
26 + 0	76 : .3	26 - .1	76 : .2	26 +16.4
27 + 0	77 : .7	27 - .1	77 : .3	27 19.6
28 + 0	78 : 1.7	28 - .1	78 : .5	28 -17.6
29 - 0	79 : 1.8	29 - .1	79 : .6	29 -22.7
30 + 0	80 : 1.8	30 - .1	80 : .7	30 : .1
31 + 0	81 : 1.8	31 - .1	81 : .8	
32 + 0	82 : 1.9	32 - .1	82 - .9	
33 + 0	83 - 2.2	33 - .1	83 - 1.1	
34 + 0	84 : 1.2	34 - .1	84 : 1.4	
35 + 0	85 : 1.2	35 - .1	85 : 1.8	
36 - .1	86 : 1.2	36 - .1	86 + 2.0	
37 - .1	87 : 1.6	37 - .1	87 : 5.2	
38 - .1	88 : 1.0	38 - .1	88 : 1.8	
39 - .1	89 + 1.0	39 - .1	89 +11.1	
40 - .1	90 : 1.1	40 + 0	90 : 2.7	
41 - .1	91 : 1.3	41 + 0	91 : 2.8	
42 - .1	92 : .2	42 + 0	92 : 4.0	
43 - .1	93 : 1.4	43 + 0	93 : 5.7	
44 - .1	94 : 1.9	44 + 0	94 : 1.0	
45 - .1	95 : 2.0	45 + 0	95 : 1.7	
46 - .1	96 : 2.3	46 + 0	96 : 2.5	
47 - .1	97 : 2.4	47 - .1	97 : 2.6	
48 - .1	98 : .1	48 - .1	98 : 2.6	
49 - .1	99 : .1	49 - .1	99 : 2.7	
50 - .1	100 + .1	50 - .1	100 + .1	

Seq. 5

2633 .10 0° .05 0 10.0 +2.5° 1.049 2061.5 .002317

a) 1 + 0	51 .1	b) 1. 0	51 .1	c) 1 .1
2 + 0	52 - 6.6	2 0	52 - 4.1	2 4.4
3 + 0	53 - 6.8	3 0	53 - 4.4	3 - 3.2
4 - 3.5	54 7.0	4 0	54 .2	4 -11.0
5 - 3.0	55 6.8	5 0	55 .8	5 -12.7
6 - .1	56 6.6	6 0	56 .9	6 .2
7 - .1	57 6.6	7 0	57 3.7	7 -15.6
8 - .1	58 6.6	8 0	58 6.0	8 20.2
9 - .1	59 5.9	9 0	59 6.8	9 5.8
10 + 7.5	60 5.9	10 0	60 7.1	10 - 7.4
11 - 2.1	61 5.9	11 3.1	61 7.2	11 .7
12 + 0	62 5.3	12 .1	62 7.4	12 - 3.7
13 + 0	63 5.4	13 .1	63 7.8	13 -11.1
14 + 0	64 5.7	14 .6	64 - 3.8	14 - 8.1
15 + 0	65 6.0	15 .1	65 - 3.8	15 - 7.1
16 + 0	66 5.8	16 .1	66 .2	16 -16.0
17 + 0	67 5.9	17 .1	67 6.3	17 -26.4
18 - 4.9	68 6.1	18 0	68 9.6	18 - 4.4
19 + 0	69 6.3	19 - 0	69 9.8	19 - 8.9
20 - .1	70 5.8	20 0	70 7.5	20 .2
21 - 0	71 6.0	21 0	71 7.4	21 - 2.2
22 - .1	72 6.3	22 0	72 7.8	22 - 1.8
23 - .1	73 6.8	23 0	73 8.3	23 - 8.8
24 - .1	74 6.3	24 - 1.1	74 3.4	24 -10.2
25 - 4.1	75 6.9	25 .4	75 5.1	25 1.3
26 - 2.9	76 7.3	26 .4	76 - 5.8	26 9.2
27 0	77 7.7	27 .4	77 - 3.9	27 9.8
28 - 0	78 7.4	28 .4	78 -11.9	28 3.8
29 0	79 7.8	29 .4	79 13.1	29 .1
30 - .1	80 8.2	30 .4	80 11.8	30 .1
31 - .1	81 8.4	31 .4	81 9.8	
32 - 4.8	82 8.5	32 .4	82 10.3	Seq. 5
33 - .1	83 9.2	33 .4	83 10.6	
34 - .1	84 8.2	34 .4	84 10.8	
35 - .1	85 8.4	35 .4	85 10.9	
36 - .1	86 8.7	36 .1	86 11.0	
37 - .1	87 9.0	37 .1	87 10.6	
38 - .1	88 2.2	38 .1	88 10.6	
39 - 4.6	89 6.2	39 .1	89 10.4	
40 - 3.4	90 9.5	40 .1	90 10.7	
41 + 0	91 9.5	41 .1	91 11.0	
42 + 0	92 .2	42 + .1	92 11.8	
43 - .1	93 7.5	43 + .1	93 10.1	
44 - .1	94 8.5	44 + .1	94 10.5	
45 - .1	95 8.9	45 + .1	95 11.0	
46 - .1	96 9.3	46 + .1	96 11.2	
47 - .1	97 7.7	47 + .1	97 11.4	
48 - .1	98 .1	48 + .1	98 11.4	
49 - .1	99 .1	49 + .1	99 11.5	
50 - .1	100 .1	50 + .1	100 + .1	

2634 .10 0° .05 0 10.0 0° 1.048 2061.5 .002317

a) 1 + 0	51 .2	b) 1 + .1	51 .2	c) 1 .1
2 + 0	52 - 3.8	2 + .1	52 - 3.5	2 3.4
3 + 0	53 - 4.5	3 + .1	53 - 3.8	3 - 3.5
4 - 3.4	54 9.7	4 + 0	54 - 3.2	4 -11.0
5 + 0	55 9.9	5 + 0	55 - 2.0	5 -11.8
6 + 0	56 8.9	6 + 0	56 - 1.6	6 - 3.4
7 + 0	57 8.9	7 + 0	57 4.2	7 14.8
8 + 0	58 8.9	8 + 0	58 8.3	8 19.5
9 + 0	59 8.9	9 + 0	59 8.8	9 3.6
10 + 1.3	60 8.9	10 + 0	60 9.0	10 - 7.4
11 - 2.8	61 8.9	11 + 0	61 9.0	11 + 2.9
12 + 0	62 8.5	12 + 0	62 9.3	12 - 2.1
13 - .1	63 8.5	13 + 0	63 9.4	13 -12.4
14 - .1	64 8.8	14 + 0	64 4.6	14 - 8.5
15 - .1	65 9.0	15 + .5	65 - 2.0	15 - 5.7
16 - .1	66 7.7	16 + 0	66 1.2	16 14.4
17 - .1	67 8.0	17 + 0	67 8.3	17 -22.7
18 - 2.8	68 8.9	18 + 0	68 11.7	18 - 2.8
19 - 2.4	69 9.3	19 + 0	69 11.8	19 - 9.4
20 + 0	70 8.7	20 + 0	70 9.2	20 + .2
21 - .1	71 8.8	21 + 0	71 9.1	21 - 3.6
22 + 0	72 9.1	22 + 0	72 9.4	22 - 2.2
23 + 0	73 9.3	23 + 0	73 9.9	23 -10.2
24 + 0	74 9.4	24 + 0	74 - 2.1	24 -13.2
25 - 2.6	75 9.6	25 + 0	75 - 2.1	25 - .1
26 + 0	76 10.2	26 + 0	76 1.7	26 - 1.9
27 + 0	77 10.5	27 + 0	77 8.6	27 -13.1
28 - .1	78 10.5	28 + 0	78 11.0	28 - 4.7
29 - .1	79 10.6	29 + 0	79 11.6	29 - 4.2
30 - .1	80 10.0	30 + 0	80 11.5	30 - .1
31 - .1	81 10.0	31 + 0	81 11.7	
32 - 2.7	82 11.4	32 + 0	82 11.8	Seq. 5
33 - .1	83 11.6	33 + 0	83 12.0	
34 - .1	84 7.4	34 + 0	84 12.1	
35 - .1	85 11.4	35 + 0	85 12.2	
36 - .1	86 11.8	36 + 0	86 12.3	
37 - .1	87 11.9	37 + 0	87 13.8	
38 - .1	88 .9	38 + 0	88 12.1	
39 - 2.3	89 10.9	39 + 0	89 12.2	
40 - .1	90 11.2	40 + 0	90 12.3	
41 - .1	91 11.5	41 + 0	91 12.6	
42 - .1	92 .2	42 + 0	92 11.9	
43 - .1	93 11.8	43 + 0	93 12.0	
44 - .1	94 1.9	44 + 0	94 12.2	
45 - .1	95 12.0	45 + 0	95 12.5	
46 - .1	96 11.7	46 + 0	96 12.6	
47 - .1	97 8.9	47 + 0	97 12.7	
48 - .1	98 .1	48 + 0	98 2.7	
49 - .1	99 .1	49 + 0	99 12.8	
50 - .1	100 + .1	50 + 0	100 + .1	

2635 .10 0° .05 0 10.0 ~ -2.5° 1.048 2061.5 .002317

a)1 + .1	51 : .1	b)1 - 11.1	51 : .1	c)1 : .1
2 + .1	52 - 4.0	2 - 11.1	52 - 4.1	2 : 2.8
3 + .1	53 - 4.1	3 - 11.1	53 - 4.4	3 : .1
4 - 4.5	54 : 9.0	4 - 11.1	54 - 4.3	4 - 8.8
5 + 0	55 : 9.7	5 - 11.1	55 - 6.1	5 -11.1
6 + 0	56 : 9.4	6 - 11.1	56 - 6.6	6 : .3
7 + 0	57 : 9.4	7 - 11.1	57 - 4.4	7 :11.1
8 + 0	58 : 7.1	8 - 11.1	58 - 8.9	8 :14.5
9 + 0	59 : 8.0	9 - 11.1	59 :10.3	9 : 3.8
10 + 0	60 : 8.6	10 - 11.1	60 :10.5	10 - 4.0
11 - 4.8	61 : 8.7	11 - 11.1	61 : 7.7	11 : .5
12 + .1	62 : 7.1	12 - 11.1	62 : 7.7	12 - 6.5
13 : 0	63 : 8.1	13 - 11.1	63 : 7.9	13 -13.6
14 + 0	64 : 8.6	14 - 11.1	64 : 4.0	14 -10.5
15 + 0	65 : 8.8	15 - 11.1	65 - 3.7	15 - 8.5
16 + 0	66 : 7.4	16 - 11.1	66 : .5	16 -13.9
17 + 0	67 : 7.6	17 - 11.1	67 : 8.5	17 -25.6
18 - 4.7	68 : 8.5	18 - 11.1	68 :13.1	18 - 4.9
19 + 0	69 : 8.9	19 - 11.1	69 :13.3	19 - 9.9
20 + 0	70 : 7.7	20 - 11.1	70 : 7.6	20 : .1
21 : 0	71 : 7.9	21 - 11.1	71 : 7.6	21 : 3.4
22 : 0	72 : 8.4	22 - 11.1	72 : 7.9	22 - 3.5
23 : 0	73 : 9.0	23 - 11.1	73 : 8.7	23 -10.5
24 : 0	74 : 9.3	24 - 11.1	74 : .6	24 -14.7
25 - 3.5	75 : 9.6	25 - 11.1	75 : 1.0	25 : .2
26 : 0	76 : 9.7	26 - 11.1	76 : 4.1	26 -13.9
27 : 0	77 :10.0	27 - 11.1	77 : 7.5	27 -14.3
28 : 0	78 :10.3	28 - 11.1	78 : 8.6	28 : 4.5
29 : 0	79 :10.4	29 - 11.1	79 : 9.4	29 - 3.9
30 : 0	80 :10.5	30 - 11.1	80 : 9.9	30 : .1
31 : 0	81 :10.6	31 - 11.1	81 :10.1	
32 - 2.5	82 :10.9	32 - 11.1	82 :10.3	Seq. 5
33 : 0	83 :10.3	33 - 11.1	83 :10.5	
34 : 0	84 : 6.4	34 - 11.1	84 :10.8	
35 : 0	85 :10.0	35 - 11.1	85 :11.0	
36 : 0	86 :10.6	36 - 11.1	86 :11.1	
37 : 0	87 :11.0	37 - 11.1	87 :14.7	
38 : 0	88 : 1.4	38 - 11.1	88 :11.0	
39 - 2.6	89 :10.2	39 - 11.1	89 :12.3	
40 : .1	90 :10.7	40 - 11.1	90 :11.6	
41 + 0	91 :10.9	41 - 11.1	91 :11.7	
42 + 0	92 : .1	42 - 11.1	92 :10.4	
43 + 0	93 :11.3	43 - 11.1	93 :11.6	
44 + 0	94 :10.5	44 - 11.1	94 :11.7	
45 + 0	95 :11.5	45 - 11.1	95 : 1.7	
46 + 0	96 :11.6	46 - 11.1	96 :11.7	
47 + 0	97 : 8.7	47 - 11.1	97 :11.8	
48 + 0	98 : .1	48 - 11.1	98 :11.8	
49 : 0	99 : .1	49 - 11.1	99 :11.8	
50 + 0	100 : .1	50 - 11.1	100 : .1	

2666 .10 0° .03 0 10.0 +2.5° 1.048 2053.0 .002350

a)1 - .1	51 .2	b)1 - 0	51 .1	c)1 - .1
2 - .1	52 - 3.9	2 - 0	52 - 4.4	2 - 15.6
3 - .1	53 - 5.1	3 - 0	53 - 4.5	3 - 10.9
4 - 5.6	54 - 18.3	4 - 0	54 - 4.3	4 - 6.1
5 - 4.0	55 - 18.5	5 - 0	55 - 2.7	5 - 3.8
6 - 0	56 - 16.4	6 - 0	56 - 4.8	6 - 16.9
7 - .1	57 - 16.8	7 - 0	57 - 13.9	7 - 24.3
8 - .1	58 - 17.1	8 - 0	58 - 17.6	8 - 29.2
9 - .1	59 - 17.3	9 - 0	59 - 21.0	9 - 25.3
10 - 6.9	60 - 17.5	10 - 0	60 - 21.8	10 - 10.9
11 - 5.1	61 - 17.6	11 - 2.3	61 - 22.6	11 - 17.6
12 - .9	62 - 17.0	12 - 0	62 - 21.8	12 - 8.4
13 - 0	63 - 17.2	13 - 0	63 - 23.0	13 - .6
14 - 0	64 - 17.5	14 - 3.2	64 - 4.8	14 - 4.2
15 - 0	65 - 17.8	15 - 0	65 - 9.9	15 - 7.0
16 - 0	66 - 17.7	16 - .1	66 - .2	16 - 24.3
17 - 0	67 - 17.7	17 - 0	67 - 12.7	17 - 32.3
18 - 5.9	68 - 17.9	18 - 0	68 - 21.3	18 - 10.5
19 - 0	69 - 18.1	19 - 0	69 - 25.4	19 - 2.1
20 - .1	70 - 17.5	20 - 0	70 - 22.5	20 - .1
21 - .1	71 - 17.8	21 - 0	71 - 19.2	21 - 11.1
22 - .1	72 - 18.1	22 - 0	72 - 9.2	22 - 5.0
23 - .1	73 - 18.3	23 - 0	73 - 19.6	23 - .1
24 - .1	74 - 18.0	24 - 3.4	74 - 3.3	24 - .3
25 - 9.3	75 - 18.9	25 - 0	75 - 5.9	25 - 8.5
26 - .1	76 - 19.2	26 - 0	76 - 10.4	26 - 19.9
27 - .1	77 - 19.3	27 - 0	77 - 1.6	27 - 26.8
28 - .1	78 - 18.2	28 - 0	78 - 22.8	28 - 10.9
29 - .1	79 - 20.0	29 - 0	79 - 23.8	29 - 1.6
30 - .1	80 - 20.2	30 - 0	80 - 21.8	30 - .1
31 - .1	81 - 20.3	31 - 0	81 - 19.1	
32 - 9.9	82 - 20.3	32 - 0	82 - 19.4	
33 - 0	83 - 21.1	33 - 0	83 - 19.0	
34 - .1	84 - 17.5	34 - 0	84 - 19.9	
35 - .1	85 - 20.5	35 - 0	85 - 20.0	
36 - .1	86 - 20.7	36 - 0	86 - 20.1	
37 - .1	87 - 20.9	37 - 0	87 - 19.8	
38 - .1	88 - 3.4	38 - 0	88 - 20.3	
39 - 9.0	89 - 15.0	39 - 0	89 - 20.1	
40 - .1	90 - 23.9	40 - 0	90 - 20.1	
41 - .1	91 - 23.0	41 - 0	91 - 20.5	
42 - .1	92 - 2.2	42 - 0	92 - 20.0	
43 - .1	93 - 19.6	43 - 0	93 - 20.4	
44 - .1	94 - 20.1	44 - 0	94 - 20.4	
45 - .1	95 - 20.5	45 - 0	95 - 21.2	
46 - .1	96 - 20.7	46 - 0	96 - 21.2	
47 - .1	97 - 17.1	47 - 0	97 - 21.2	
48 - .1	98 - .2	48 - 0	98 - 21.2	
49 - .1	99 - .2	49 - 0	99 - 21.2	
50 - .1	100 - .2	50 - 0	100 - .2	

Seq. 5

2667 .10 0° .03 0 10.0 0° 1.048 2053.0 .002350

a) 1 + .1	51 + .1	b) 1 - .1	51 + .1	c) 1 + .1
2 + .1	52 - 2.6	2 - .1	52 - 2.9	2 + 17.8
3 + .1	53 - 3.9	3 - .1	53 - 5.3	3 + 10.8
4 - 7.4	54 + 21.5	4 - .1	54 - 6.3	4 + 3.4
5 - 4.1	55 + 21.7	5 - .1	55 - 8.1	5 + 2.4
6 + 0	56 + 21.7	6 - .1	56 - 7.4	6 + 11.6
7 + 0	57 + 21.7	7 - .1	57 + 6.1	7 + 26.3
8 + 0	58 + 21.7	8 - .1	58 + 17.5	8 + 32.8
9 + 0	59 + 21.7	9 - .1	59 + 21.1	9 + 15.4
10 + .7	60 + 21.7	10 - .1	60 + 21.1	10 + 7.1
11 - 6.6	61 + 21.7	11 - 3.6	61 + 21.1	11 + 17.4
12 - 3.7	62 + 21.4	12 - .1	62 + 21.0	12 + 11.6
13 - 2.8	63 + 21.4	13 + 0	63 + 21.0	13 + 3.4
14 + 0	64 + 21.5	14 - 5.5	64 - 7.9	14 + 10.0
15 + 0	65 + 21.6	15 - .1	65 - 8.8	15 + 13.9
16 + 0	66 + 21.3	16 - .1	66 + .1	16 + 27.3
17 + 0	67 + 21.3	17 - .1	67 + 13.5	17 + 35.0
18 - 9.6	68 + 21.5	18 - .1	68 + 24.3	18 + 18.4
19 - 4.2	69 + 21.6	19 - .1	69 + 24.3	19 + 12.2
20 + 0	70 + 21.6	20 - .1	70 + 23.6	20 + .1
21 + 0	71 + 21.7	21 - .1	71 + 23.1	21 + 16.4
22 + 0	72 + 21.8	22 - .1	72 + 23.1	22 + 10.9
23 + 0	73 + 21.9	23 - .1	73 + 23.1	23 + 3.1
24 + 0	74 + 21.7	24 - 2.9	74 - 4.4	24 + 2.0
25 - 7.8	75 + 21.9	25 - .1	75 + 6.3	25 + 11.9
26 + 0	76 + 22.1	26 - .1	76 - .6	26 + 26.5
27 + 0	77 + 22.3	27 - .1	77 + 13.3	27 + 27.7
28 + 0	78 + 22.5	28 - .1	78 + 24.5	28 + 16.2
29 + 0	79 + 22.6	29 - .1	79 + 24.5	29 + 6.5
30 + 0	80 + 22.9	30 - .1	80 + 24.5	30 + .1
31 + 0	81 + 23.1	31 - .1	81 + 22.1	
32 - 7.2	82 + 23.3	32 - .1	82 + 22.3	
33 - 4.0	83 + 22.8	33 - .1	83 + 22.4	
34 + .1	84 + 20.3	34 - .1	84 + 22.6	
35 + .1	85 + 22.1	35 - .6	85 + 22.7	
36 + .1	86 + 22.6	36 - 1.1	86 + 22.9	
37 + .1	87 + 23.1	37 + 0	87 + 23.0	
38 + .1	88 - 3.2	38 + 0	88 + 23.0	
39 - 7.2	89 + 19.3	39 + 0	89 + 23.0	
40 + 0	90 + 25.0	40 + 0	90 + 23.1	
41 + 0	91 + 24.9	41 + 0	91 + 23.0	
42 + 0	92 + 4.5	42 + 0	92 + 22.6	
43 + 0	93 + 22.3	43 - .1	93 + 25.2	
44 + 0	94 + 22.9	44 - .1	94 + 25.2	
45 + 0	95 + 23.3	45 - .1	95 + 25.2	
46 + 0	96 + 23.6	46 - .1	96 + 23.8	
47 + 0	97 + 21.8	47 - .1	97 + 23.8	
48 + 0	98 + .2	48 - .1	98 + 23.8	
49 + 0	99 + .1	49 - .1	99 + 23.8	
50 + 0	100 + .1	50 - .1	100 + .2	

Seq. 5

2668 .10 0° .03 0 10.0 -2.5° 1.048 2053.0 .002350

a) 1 - .1	51 + .2	b) 1 + 0	51 + .2	c) 1 + .1
2 - .1	52 - 5.6	2 + 0	52 - 2.9	2 + 13.6
3 - .1	53 - 5.9	3 + 0	53 - 4.1	3 + 5.3
4 - 8.6	54 + 15.4	4 + 0	54 - 4.1	4 + 1.3
5 + 0	55 + 24.0	5 + 0	55 - 7.5	5 + 1.5
6 + 0	56 + 20.5	6 + 0	56 - 10.2	6 + 8.3
7 + 0	57 + 20.3	7 + 0	57 - 19.4	7 + 22.1
8 + 0	58 + 18.9	8 + 0	58 + 17.1	8 + 28.5
9 - .1	59 + 21.2	9 + 0	59 + 26.4	9 + 15.2
10 + .8	60 + 21.1	10 + 0	60 + 24.8	10 + 6.6
11 - 7.2	61 + 20.8	11 - 2.9	61 + 21.3	11 + 15.3
12 - .1	62 + 20.1	12 + 0	62 + 21.1	12 + 12.3
13 - .1	63 + 22.2	13 + 0	63 + 21.5	13 + 2.5
14 - .1	64 + 24.3	14 - 2.8	64 - 4.6	14 + 6.1
15 - .1	65 + 24.0	15 + 0	65 - 9.0	15 + 11.4
16 - .1	66 + 21.3	16 + 0	66 + 2.5	16 + 24.3
17 - .1	67 + 20.8	17 + 0	67 + 22.8	17 + 32.9
18 - 6.7	68 + 25.0	18 + 0	68 + 26.5	18 + 16.5
19 - .1	69 + 24.4	19 + 0	69 + 26.0	19 + 2.4
20 - .1	70 + 26.4	20 + 0	70 + 19.5	20 + .1
21 - .1	71 + 20.5	21 + 0	71 + 18.8	21 + 19.3
22 - .1	72 + 20.5	22 + 0	72 + 18.8	22 + 12.1
23 - .1	73 + 20.5	23 + 0	73 + 18.8	23 + 5.2
24 - .1	74 + 20.5	24 - 1.1	74 - 1.5	24 + 3.1
25 - 6.4	75 + 19.8	25 + .1	75 + 3.0	25 + 17.0
26 + 0	76 + 20.0	26 + .1	76 + 12.9	26 + 25.8
27 + 0	77 + 23.2	27 + .1	77 + 19.1	27 + 24.6
28 + 0	78 + 23.2	28 + .1	78 + 23.1	28 + 23.3
29 - .1	79 + 23.2	29 + .1	79 + 24.6	29 + 15.5
30 - .1	80 + 23.2	30 + 0	80 + 25.8	30 + .1
31 - .1	81 + 25.0	31 + 0	81 + 24.6	
32 - 5.1	82 + 25.0	32 + 0	82 + 24.4	Seq. 5
33 - .8	83 + 22.6	33 + 0	83 + 24.3	
34 - .1	84 + 18.3	34 + 0	84 + 25.8	
35 - .1	85 + 23.3	35 + 0	85 + 25.5	
36 - .1	86 + 23.2	36 - 2.4	86 + 25.3	
37 - .1	87 + 23.2	37 + .1	87 + 29.8	
38 - .1	88 + 2.9	38 + 0	88 + 20.2	
39 - 4.2	89 + 16.2	39 + 0	89 + 20.5	
40 + 0	90 + 24.4	40 + 0	90 + 20.9	
41 - .1	91 + 24.5	41 + 0	91 + 21.0	
42 - .1	92 + 4.4	42 + 0	92 + 18.9	
43 - .1	93 + 20.7	43 + 0	93 + 24.6	
44 - .1	94 + 21.0	44 + 0	94 + 24.5	
45 - .1	95 + 21.2	45 + 0	95 + 24.5	
46 - .1	96 + 21.3	46 + 0	96 + 20.7	
47 - .1	97 + 17.3	47 + 0	97 + 20.9	
48 - .1	98 + .2	48 + 0	98 + 20.9	
49 - .1	99 + .2	49 + 0	99 + 21.1	
50 - .1	100 + .1	50 + 0	100 + .1	

FOR ERRATA

AD 414 236

THE FOLLOWING PAGES ARE CHANGES

TO BASIC DOCUMENT

414236

AD-414 236

Contract is corrected to read Nonr-20103

AD 414236

END CHANGE PAGES