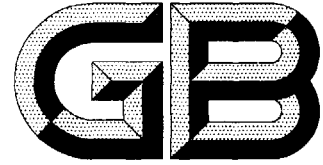# 中华人民共和国国家标准

GB/T 6999—2010
代替 GB/T 6999—1986

环境试验用相对湿度查算表

Relative humidity tables for environmental test

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中华人民共和国国家质量监督检验检疫总局
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目　　次

前　言

本标准是对 GB/T 6999—1986《环境试验用相对湿度查算表》的修订。

本标准代替 GB/T 6999—1986《环境试验用相对湿度查算表》。

本标准与 GB/T 6999—1986 相比,主要差异如下:

——根据 GB/T 1.1—2000《标准化工作导则　第1部分:标准的结构和编写规则》要求,对编排格式进行了修改;

——将原标准2.1的表格添加的表号——表1,原表 1a₁、表 1a₂、表 1b、表 1c 依次改为表 2a₁、表 2a₂、表 2b、表 2c,原表2、表3、表4、表5等各表号依次作相应修改;

——增加了资料性附录 A;

——对2.2的公式及其参数进行修正,详细对比见附录 A;

——对表 2a₁、表 3b 及表5中的一部分数据进行修正,详细对比见附录 A。

本标准的附录 A 为资料性附录。

本标准由全国电工电子产品环境条件与环境试验标准化技术委员会(SAC/TC 8)提出并归口。

本标准起草单位:广州电器科学研究院、深圳市标准技术研究院、工业和信息化部电子第五研究所。

本标准主要起草人:陈心欣、温利峰、黄开云、李明芳、王磊。

本标准所代替标准的历次版本发布情况为:

——GB/T 6999—1986。

环境试验用相对湿度查算表

1 范围

本标准规定了环境试验中相对湿度的计算方法。

本标准适用于环境试验中用球状或柱状水银温度表测量干湿球温度时查算相对湿度。

2 计算公式

2.1 表2～表5分别为使用球状或柱状水银温度表测量干湿球温度时查算相对湿度用表。计算公式如下：

$$U = \frac{e}{e_w} \times 100\% = \frac{e_{tw} - AP(t - t_w)}{e_w} \times 100\%$$

式中：

U——相对湿度；

e——实际水汽压，kPa；

e_w——干球温度 t 所对应的纯水平面饱和水汽压，kPa；

e_{tw}——湿球温度 t_w 所对应的纯水平面饱和水汽压，kPa；

A——干湿表系数，℃$^{-1}$；其值由于干湿球温度表类型和干湿球温度表球部处风速决定，如表1；

P——气压，kPa；分别为 110 kPa，100 kPa，90 kPa，80 kPa 四个等级；

$(t - t_w)$——干湿球温度差，℃；取差值为 0 ℃～16.0 ℃；其中 0 ℃～5.0 ℃ 间隔 0.1 ℃；5.0 ℃～11.0 ℃ 间隔 0.2 ℃；11.0 ℃～16.0 ℃ 间隔 0.5 ℃。

表 1 干湿表系数 A 值表

干湿球温度表类型	风 速		
	0.4 m/s	0.8 m/s	2.5 m/s
球状	0.857×10^{-3}	$0.794\,7 \times 10^{-3}$	$0.866\,2 \times 10^{-3}$
柱状	0.815×10^{-3}	--	

2.2 表6为纯水平面饱和水汽压 $e_w(e_{tw})$，kPa；计算公式如下：

$$\lg e_w = 10.795\,74(1 - T_1/T) - 5.028\lg(T/T_1) + 1.504\,75 \times 10^{-4}[1 - 10^{-8.296\,9(T/T_1 - 1)}]$$
$$+ 0.428\,73 \times 10^{-3}[10^{4.769\,55(1 - T_1/T)} - 1] - 0.213\,86$$

式中：$T_1 = 273.16$ K（水的三相点温度；K，绝对温度）

$T = 273.15 + t$

3 查算方法

3.1 查表方法

3.1.1 测量气压 P，个位数四舍五入。

3.1.2 测量干湿球温度表球部处风速 V，根据风速 V 和干湿球温度表类型在表1中查出相对应的干湿表系数 A。

注：实测风速与表1中所列风速不同时，可选择与实测风速相差小的一个风速。

3.1.3 读出干湿球水银温度表的干球温度 t 和湿球温度 t_w，并求出干湿球温度差 $(t - t_w)$。

3.1.4 根据 P、A 和干湿球水银温度表类型在表2～表5中查出相对应的部分。

3.1.5 根据 t、$(t-t_w)$ 在对应的表中查出相对湿度 U。

例1：

用球状干湿球水银温度表（$V=1$ m/s）测得 $t=55.0$ ℃，$t_w=53.4$ ℃。$P=93.5$ kPa。查 U。

在表1中查出 $A=0.7947\times10^{-3}$ ℃$^{-1}$，$P=93.5$ kPa，个位四舍五入后 $P=90$ kPa，$(t-t_w)=(55.0-53.4)=1.6$ ℃，在表4b中查出 $U=91.9\%$。

例2：

一环境要求 $t=40.0$ ℃、$U=95\%$，使用柱状水银温度表（$V=2.4$ m/s），$P=98.5$ kPa，查 t_w。

在表1中查出 $A=0.662\times10^{-3}$ ℃$^{-1}$，$P=98.5$ kPa 个位数四舍五入后 $P=100$ kPa，在表3c中查出 $(t-t_w)=0.8$ ℃，$t_w=t-0.8=40.0-0.8=39.2$ ℃。

3.2 计算方法

3.2.1 测量气压 P，个位数四舍五入。

3.2.2 测量干湿球水银温度表球部处风速 V，根据风速 V 和干湿球温度类型在表1中查出相对应的干湿表系数 A。

注：实测风速与表1中所列风速不同时，可选择与实测风速相差小的一个风速。

3.2.3 读出干湿球水银温度表的干球温度 t 和湿球温度 t_w。在表5中查出 e_w、e_{tw}。

3.2.4 代入 2.1 计算公式。

例：用球状干湿球水银温度表（$V=0.9$ m/s）测得 $t=65.0$ ℃，$t_w=63.0$ ℃。$P=101$ kPa。计算 U。

在表1中查出 $A=0.7947\times10^{-3}$ ℃$^{-1}$，$P=101$ kPa，个位四舍五入后 $P=100$ kPa，在表6中查出 $e_w=25.015$ kPa，$e_{tw}=22.861$ kPa，代入：

$$U=\frac{e}{e_w}\times100\%=\frac{e_{tw}-AP(t-t_w)}{e_w}\times100\%$$

$$=\frac{22.86-100\times0.7947\times10^{-3}(65.0-63.0)}{25.015}\times100\%$$

$$=90.8\%$$

表 2a₁ 球状水银温度表相对湿度查算表

$$P=110 \text{ kPa}, A=0.857 \times 10^{-3} \text{℃}^{-1} (0.4 \text{ m/s})$$

$t-t_w$ \ t	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0
15	100.0	98.8	97.6	96.4	95.2	94.1	92.9	91.7	90.5	89.4	88.2
16	100.0	98.8	97.7	96.5	95.4	94.3	93.1	92.0	90.9	89.7	88.6
17	100.0	98.9	97.8	96.7	95.5	94.4	93.3	92.2	91.1	90.1	89.0
18	100.0	98.9	97.8	96.8	95.7	94.6	93.5	92.5	91.4	90.4	89.3
19	100.0	98.9	97.9	96.9	95.8	94.8	93.7	92.7	91.7	90.7	89.6
20	100.0	99.0	98.0	96.9	95.9	94.9	93.9	92.9	91.9	90.9	89.9
21	100.0	99.0	98.0	97.0	96.1	95.1	94.1	93.1	92.2	91.2	90.2
22	100.0	99.0	98.1	97.1	96.2	95.2	94.3	93.3	92.4	91.4	90.5
23	100.0	99.1	98.1	97.2	96.3	95.5	94.4	93.5	92.6	91.7	90.7
24	100.0	99.1	98.2	97.3	96.4	95.5	94.6	93.7	92.8	91.9	91.0
25	100.0	99.1	98.2	97.3	96.4	95.6	94.7	93.8	92.9	92.1	91.2
26	100.0	99.1	98.3	97.4	96.5	95.7	94.8	94.0	93.1	92.3	91.4
27	100.0	99.1	98.3	97.5	96.6	95.8	94.9	94.1	93.3	92.5	91.6
28	100.0	99.2	98.3	97.5	96.7	95.9	95.1	94.2	93.4	92.6	91.8
29	100.0	99.2	98.4	97.6	96.8	96.0	95.2	94.4	93.6	92.8	92.0
30	100.0	99.2	98.4	97.6	96.8	96.1	95.3	94.5	93.7	92.9	92.2
31	100.0	99.2	98.4	97.7	96.9	96.1	95.4	94.6	93.9	93.1	92.3
32	100.0	99.2	98.5	97.7	97.0	96.2	95.5	94.7	94.0	93.2	92.5
33	100.0	99.3	98.5	97.8	97.0	96.3	95.6	94.8	94.1	93.4	92.6
34	100.0	99.3	98.5	97.8	97.1	96.4	95.6	94.9	94.2	93.5	92.8
35	100.0	99.3	98.6	97.8	97.1	96.4	95.7	95.0	94.3	93.6	92.9
36	100.0	99.3	98.6	97.9	97.2	96.5	95.8	95.1	94.4	93.7	93.1
37	100.0	99.3	98.6	97.9	97.2	96.6	95.9	95.2	94.5	93.8	93.2
38	100.0	99.3	98.6	98.0	97.3	96.6	95.9	95.3	94.6	94.0	93.3
39	100.0	99.3	98.7	98.0	97.3	96.7	96.0	95.4	94.7	94.1	93.4
40	100.0	99.3	98.7	98.0	97.4	96.7	96.1	95.4	94.8	94.2	93.5
41	100.0	99.4	98.7	98.1	97.4	96.8	96.1	95.5	94.9	94.2	93.6
42	100.0	99.4	98.7	98.1	97.5	96.8	96.2	95.6	95.0	94.3	93.7
43	100.0	99.4	98.7	98.1	97.5	96.9	96.3	95.6	95.0	94.4	93.8
44	100.0	99.4	98.8	98.1	97.5	96.9	96.3	95.7	95.1	94.5	93.9
45	100.0	99.4	98.8	98.2	97.6	97.0	96.4	95.8	95.2	94.6	94.0
46	100.0	99.4	98.8	98.2	97.6	97.0	96.4	95.8	95.2	94.7	94.1
47	100.0	99.4	98.8	98.2	97.6	97.0	96.5	95.9	95.3	94.7	94.2
48	100.0	99.4	98.8	98.2	97.7	97.1	96.5	95.9	95.4	94.8	94.2
49	100.0	99.4	98.8	98.3	97.7	97.1	96.6	96.0	95.4	94.9	94.3
50	100.0	99.4	98.9	98.3	97.7	97.2	96.6	96.0	95.5	94.9	94.4
51	100.0	99.4	98.9	98.3	97.8	97.2	96.6	96.1	95.5	95.0	94.4
52	100.0	99.4	98.9	98.3	97.8	97.2	96.7	96.1	95.6	95.1	94.5
53	100.0	99.4	98.9	98.4	97.8	97.3	96.7	96.2	95.6	95.1	94.6
54	100.0	99.5	98.9	98.4	97.8	97.3	96.8	96.2	95.7	95.2	94.6
55	100.0	99.5	98.9	98.4	97.9	97.3	96.8	96.3	95.8	95.2	94.7
56	100.0	99.5	98.9	98.4	97.9	97.4	96.8	96.3	95.8	95.3	94.8
57	100.0	99.5	98.9	98.4	97.9	97.4	96.9	96.4	95.8	95.3	94.8

表 2a₁（续）

t－tw / t	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0
58	100.0	99.5	99.0	98.4	97.9	97.4	96.9	96.4	95.9	95.4	94.9
59	100.0	99.5	99.0	98.5	98.0	97.4	96.9	96.4	95.9	95.4	94.9
60	100.0	99.5	99.0	98.5	98.0	97.5	97.0	96.5	96.0	95.5	95.0
61	100.0	99.5	99.0	98.5	98.0	97.5	97.0	96.5	96.0	95.5	95.0
62	100.0	99.5	99.0	98.5	98.0	97.5	97.0	96.5	96.1	95.6	95.1
63	100.0	99.5	99.0	98.5	98.0	97.5	97.1	96.6	96.1	95.6	95.1
64	100.0	99.5	99.0	98.5	98.1	97.6	97.1	96.6	96.1	95.7	95.2
65	100.0	99.5	99.0	98.6	98.1	97.6	97.1	96.6	96.2	95.7	95.2
66	100.0	99.5	99.0	98.6	98.1	97.6	97.1	96.7	96.2	95.7	95.3
67	100.0	99.5	99.1	98.6	98.1	97.6	97.2	96.7	96.2	95.8	95.3
68	100.0	99.5	99.1	98.6	98.1	97.7	97.2	96.7	96.3	95.8	95.4
69	100.0	99.5	99.1	98.6	98.1	97.7	97.2	96.8	96.3	95.9	95.4
70	100.0	99.5	99.1	98.6	98.2	97.7	97.3	96.8	96.3	95.9	95.5
71	100.0	99.5	99.1	98.6	98.2	97.7	97.3	96.8	96.4	95.9	95.5
72	100.0	99.5	99.1	98.6	98.2	97.7	97.3	96.9	96.4	96.0	95.5
73	100.0	99.6	99.1	98.7	98.2	97.8	97.3	96.9	96.4	96.0	95.6
74	100.0	99.6	99.1	98.7	98.2	97.8	97.3	96.9	96.5	96.0	95.6
75	100.0	99.6	99.1	98.7	98.2	97.8	97.4	96.9	96.5	96.1	95.6
76	100.0	99.6	99.1	98.7	98.3	97.8	97.4	97.0	96.5	96.1	95.7
77	100.0	99.6	99.1	98.7	98.3	97.8	97.4	97.0	96.6	96.1	95.7
78	100.0	99.6	99.1	98.7	98.3	97.9	97.4	97.0	96.6	96.2	95.8
79	100.0	99.6	99.1	98.7	98.3	97.9	97.5	97.0	96.6	96.2	95.8
80	100.0	99.6	99.2	98.7	98.3	97.9	97.5	97.1	96.6	96.2	95.8
81	100.0	99.6	99.2	98.7	98.3	97.9	97.5	97.1	96.7	96.3	95.9
82	100.0	99.6	99.2	98.8	98.3	97.9	97.5	97.1	96.7	96.3	95.9
83	100.0	99.6	99.2	98.8	98.4	97.9	97.5	97.1	96.7	96.3	95.9
84	100.0	99.6	99.2	98.8	98.4	98.0	97.6	97.2	96.7	96.3	95.9
85	100.0	99.6	99.2	98.8	98.4	98.0	97.6	97.2	96.8	96.4	96.0
86	100.0	99.6	99.2	98.8	98.4	98.0	97.6	97.2	96.8	96.4	96.0
87	100.0	99.6	99.2	98.8	98.4	98.0	97.6	97.2	96.8	96.4	96.0
88	100.0	99.6	99.2	98.8	98.4	98.0	97.6	97.2	96.8	96.5	96.1
89	100.0	99.6	99.2	98.8	98.4	98.0	97.6	97.3	96.9	96.5	96.1
90	100.0	99.6	99.2	98.8	98.4	98.0	97.7	97.3	96.9	96.5	96.1
91	100.0	99.6	99.2	98.8	98.4	98.1	97.7	97.3	96.9	96.6	96.2
92	100.0	99.6	99.2	98.8	98.5	98.1	97.7	97.3	96.9	96.6	96.2
93	100.0	99.6	99.2	98.9	98.5	98.1	97.7	97.3	97.0	96.6	96.2
94	100.0	99.6	99.2	98.9	98.5	98.1	97.7	97.4	97.0	96.6	96.2
95	100.0	99.6	99.2	98.9	98.5	98.1	97.7	97.4	97.0	96.6	96.3
96	100.0	99.6	99.2	98.9	98.5	98.1	97.8	97.4	97.0	96.7	96.3
97	100.0	99.6	99.3	98.9	98.5	98.1	97.8	97.4	97.0	96.7	96.3
98	100.0	99.6	99.3	98.9	98.5	98.2	97.8	97.4	97.1	96.7	96.3
99	100.0	99.6	99.3	98.9	98.5	98.2	97.8	97.4	97.1	96.7	96.4
100	100.0	99.6	99.3	98.9	98.5	98.2	97.8	97.5	97.1	96.7	96.4

表 2a₁（续）

$t-t_w$ / t	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0
15	87.0	85.9	84.7	83.6	82.4	81.3	80.2	79.0	77.9	76.8
16	87.5	86.4	85.2	84.1	83.0	81.9	80.8	79.7	78.6	77.5
17	87.9	86.8	85.7	84.6	83.6	82.5	81.4	80.4	79.3	78.3
18	88.3	87.2	86.2	85.1	84.1	83.1	82.0	81.0	80.0	79.0
19	88.6	87.6	86.6	85.6	84.6	83.6	82.6	81.6	80.6	79.6
20	88.9	88.0	87.0	86.0	85.0	84.1	83.1	82.1	81.2	80.2
21	89.3	88.3	87.4	86.4	85.5	84.5	83.6	82.6	81.7	80.8
22	89.6	88.6	87.7	86.8	85.9	84.9	84.0	83.1	82.2	81.3
23	89.8	88.9	88.0	87.1	86.2	85.3	84.5	83.6	82.7	81.8
24	90.1	89.2	88.3	87.5	86.6	85.7	84.9	84.0	83.1	82.3
25	90.4	89.5	88.6	87.8	86.9	86.1	85.2	84.4	83.6	82.7
26	90.6	89.8	88.9	88.1	87.3	86.4	85.6	84.8	84.0	83.2
27	90.8	90.0	89.2	88.4	87.6	86.8	85.9	85.1	84.3	83.6
28	91.0	90.2	89.4	88.6	87.8	87.1	86.3	85.5	84.7	83.9
29	91.2	90.4	89.7	88.9	88.1	87.3	86.6	85.8	85.1	84.3
30	91.4	90.6	89.9	89.1	88.4	87.6	86.9	86.1	85.4	84.6
31	91.6	90.8	90.1	89.4	88.6	87.9	87.1	86.4	85.7	85.0
32	91.8	91.0	90.3	89.6	88.8	88.1	87.4	86.7	86.0	85.3
33	91.9	91.2	90.5	89.8	89.1	88.4	87.7	87.0	86.3	85.6
34	92.1	91.4	90.7	90.0	89.3	88.6	87.9	87.2	86.5	85.8
35	92.2	91.5	90.9	90.2	89.5	88.8	88.1	87.4	86.8	86.1
36	92.4	91.7	91.0	90.3	89.7	89.0	88.3	87.7	87.0	86.4
37	92.5	91.8	91.2	90.5	89.9	89.2	88.5	87.9	87.2	86.6
38	92.6	92.0	91.3	90.7	90.0	89.4	88.7	88.1	87.5	86.8
39	92.8	92.1	91.5	90.8	90.2	89.6	88.9	88.3	87.7	87.0
40	92.9	92.2	91.6	91.0	90.4	89.7	89.1	88.5	87.9	87.3
41	93.0	92.4	91.7	91.1	90.5	89.9	89.3	88.7	88.1	87.5
42	93.1	92.5	91.9	91.3	90.7	90.1	89.5	88.9	88.3	87.7
43	93.2	92.6	92.0	91.4	90.8	90.2	89.6	89.0	88.4	87.8
44	93.3	92.7	92.1	91.5	90.9	90.3	89.8	89.2	88.6	88.0
45	93.4	92.8	92.2	91.6	91.1	90.5	89.9	89.3	88.8	88.2
46	93.5	92.9	92.3	91.8	91.2	90.6	90.0	89.5	88.9	88.4
47	93.6	93.0	92.4	91.9	91.3	90.7	90.2	89.6	89.1	88.5
48	93.7	93.1	92.5	92.0	91.4	90.9	90.3	89.8	89.2	88.7
49	93.7	93.2	92.6	92.1	91.5	91.0	90.4	89.9	89.4	88.8
50	93.8	93.3	92.7	92.2	91.6	91.1	90.6	90.0	89.5	89.0
51	93.9	93.4	92.8	92.3	91.7	91.2	90.7	90.2	89.6	89.1
52	94.0	93.4	92.9	92.4	91.8	91.3	90.8	90.3	89.8	89.2
53	94.1	93.5	93.0	92.5	91.9	91.4	90.9	90.4	89.9	89.4
54	94.1	93.6	93.1	92.6	92.0	91.5	91.0	90.5	90.0	89.5
55	94.2	93.7	93.2	92.6	92.1	91.6	91.1	90.6	90.1	89.6
56	94.3	93.7	93.2	92.7	92.2	91.7	91.2	90.7	90.2	89.7
57	94.3	93.8	93.3	92.8	92.3	91.8	91.3	90.8	90.3	89.8

表 2a₁（续）

t \ t－t_w	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0
58	94.4	93.9	93.4	92.9	92.4	91.9	91.4	90.9	90.4	89.9
59	94.4	93.9	93.5	93.0	92.5	92.0	91.5	91.0	90.5	90.1
60	94.5	94.0	93.5	93.0	92.6	92.1	91.6	91.1	90.6	90.2
61	94.6	94.1	93.6	93.1	92.6	92.1	91.7	91.2	90.7	90.3
62	94.6	94.1	93.7	93.2	92.7	92.2	91.8	91.3	90.8	90.4
63	94.7	94.2	93.7	93.2	92.8	92.3	91.8	91.4	90.9	90.4
64	94.7	94.2	93.8	93.3	92.8	92.4	91.9	91.5	91.0	90.5
65	94.8	94.3	93.8	93.4	92.9	92.5	92.0	91.5	91.1	90.6
66	94.8	94.4	93.9	93.4	93.0	92.5	92.1	91.6	91.2	90.7
67	94.9	94.4	94.0	93.5	93.0	92.6	92.1	91.7	91.3	90.8
68	94.9	94.5	94.0	93.6	93.1	92.7	92.2	91.8	91.3	90.9
69	95.0	94.5	94.1	93.6	93.2	92.7	92.3	91.8	91.4	91.0
70	95.0	94.6	94.1	93.7	93.2	92.8	92.4	91.9	91.5	91.1
71	95.0	94.6	94.2	93.7	93.3	92.9	92.4	92.0	91.6	91.1
72	95.1	94.7	94.2	93.8	93.4	92.9	92.5	92.1	91.6	91.2
73	95.1	94.7	94.3	93.8	93.4	93.0	92.6	92.1	91.7	91.3
74	95.2	94.7	94.3	93.9	93.5	93.0	92.6	92.2	91.8	91.4
75	95.2	94.8	94.4	93.9	93.5	93.1	92.7	92.3	91.8	91.4
76	95.3	94.8	94.4	94.0	93.6	93.2	92.7	92.3	91.9	91.5
77	95.3	94.9	94.5	94.0	93.6	93.2	92.8	92.4	92.0	91.6
78	95.3	94.9	94.5	94.1	93.7	93.3	92.9	92.5	92.0	91.6
79	95.4	95.0	94.5	94.1	93.7	93.3	92.9	92.5	92.1	91.7
80	95.4	95.0	94.6	94.2	93.8	93.4	93.0	92.6	92.2	91.8
81	95.4	95.0	94.6	94.2	93.8	93.4	93.0	92.6	92.2	91.8
82	95.5	95.1	94.7	94.3	93.9	93.5	93.1	92.7	92.3	91.9
83	95.5	95.1	94.7	94.3	93.9	93.5	93.1	92.7	92.4	92.0
84	95.6	95.2	94.8	94.4	94.0	93.6	93.2	92.8	92.4	92.0
85	95.6	95.2	94.8	94.4	94.0	93.6	93.2	92.9	92.5	92.1
86	95.6	95.2	94.8	94.4	94.1	93.7	93.3	92.9	92.5	92.1
87	95.7	95.3	94.9	94.5	94.1	93.7	93.3	93.0	92.6	92.2
88	95.7	95.3	94.9	94.5	94.1	93.8	93.4	93.0	92.6	92.3
89	95.7	95.3	95.0	94.6	94.2	93.8	93.4	93.1	92.7	92.3
90	95.7	95.4	95.0	94.6	94.2	93.9	93.5	93.1	92.7	92.4
91	95.8	95.4	95.0	94.6	94.3	93.9	93.5	93.2	92.8	92.4
92	95.8	95.4	95.1	94.7	94.3	93.9	93.6	93.2	92.8	92.5
93	95.8	95.5	95.1	94.7	94.4	94.0	93.6	93.3	92.9	92.5
94	95.9	95.5	95.1	94.8	94.4	94.0	93.7	93.3	92.9	92.6
95	95.9	95.5	95.2	94.8	94.4	94.1	93.7	93.4	93.0	92.6
96	95.9	95.6	95.2	94.8	94.5	94.1	93.8	93.4	93.0	92.7
97	96.0	95.6	95.2	94.9	94.5	94.2	93.8	93.4	93.1	92.7
98	96.0	95.6	95.3	94.9	94.6	94.2	93.8	93.5	93.1	92.8
99	96.0	95.7	95.3	94.9	94.6	94.2	93.9	93.5	93.2	92.8
100	96.0	95.7	95.3	95.0	94.6	94.3	93.9	93.6	93.2	92.9

表 2a₁（续）

t‑tw / t	2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9	3.0
15	75.6	74.5	73.4	72.3	71.2	70.1	68.9	67.8	66.7	65.6
16	76.5	75.4	74.3	73.2	72.1	71.1	70.0	68.9	67.9	66.8
17	77.2	76.2	75.1	74.1	73.0	72.0	71.0	69.9	68.9	67.9
18	77.9	76.9	75.9	74.9	73.9	72.9	71.9	70.9	69.9	68.9
19	78.6	77.6	76.6	75.7	74.7	73.7	72.7	71.8	70.8	69.9
20	79.2	78.3	77.3	76.4	75.4	74.5	73.6	72.6	71.7	70.8
21	79.8	78.9	78.0	77.1	76.1	75.2	74.3	73.4	72.5	71.6
22	80.4	79.5	78.6	77.7	76.8	75.9	75.0	74.2	73.3	72.4
23	80.9	80.0	79.2	78.3	77.4	76.6	75.7	74.9	74.0	73.1
24	81.4	80.6	79.7	78.9	78.0	77.2	76.4	75.5	74.7	73.9
25	81.9	81.1	80.2	79.4	78.6	77.8	77.0	76.1	75.3	74.5
26	82.3	81.5	80.7	79.9	79.1	78.3	77.5	76.7	75.9	75.2
27	82.8	82.0	81.2	80.4	79.6	78.8	78.1	77.3	76.5	75.7
28	83.2	82.4	81.6	80.9	80.1	79.3	78.6	77.8	77.1	76.3
29	83.5	82.8	82.0	81.3	80.5	79.8	79.1	78.3	77.6	76.8
30	83.9	83.2	82.4	81.7	81.0	80.2	79.5	78.8	78.1	77.4
31	84.2	83.5	82.8	82.1	81.4	80.7	79.9	79.2	78.5	77.8
32	84.6	83.8	83.1	82.4	81.7	81.0	80.4	79.7	79.0	78.3
33	84.9	84.2	83.5	82.8	82.1	81.4	80.7	80.1	79.4	78.7
34	85.2	84.5	83.8	83.1	82.5	81.8	81.1	80.5	79.8	79.1
35	85.4	84.8	84.1	83.4	82.8	82.1	81.5	80.8	80.2	79.5
36	85.7	85.0	84.4	83.7	83.1	82.5	81.8	81.2	80.5	79.9
37	86.0	85.3	84.7	84.0	83.4	82.8	82.1	81.5	80.9	80.3
38	86.2	85.6	84.9	84.3	83.7	83.1	82.4	81.8	81.2	80.6
39	86.4	85.8	85.2	84.6	84.0	83.3	82.7	82.1	81.5	80.9
40	86.6	86.0	85.4	84.8	84.2	83.6	83.0	82.4	81.8	81.2
41	86.9	86.3	85.7	85.1	84.5	83.9	83.3	82.7	82.1	81.5
42	87.1	86.5	85.9	85.3	84.7	84.1	83.5	83.0	82.4	81.8
43	87.3	86.7	86.1	85.5	84.9	84.4	83.8	83.2	82.7	82.1
44	87.4	86.9	86.3	85.7	85.2	84.6	84.0	83.5	82.9	82.4
45	87.6	87.1	86.5	85.9	85.4	84.8	84.3	83.7	83.2	82.6
46	87.8	87.2	86.7	86.1	85.6	85.0	84.5	83.9	83.4	82.9
47	88.0	87.4	86.9	86.3	85.8	85.2	84.7	84.2	83.6	83.1
48	88.1	87.6	87.0	86.5	86.0	85.4	84.9	84.4	83.8	83.3
49	88.3	87.7	87.2	86.7	86.1	85.6	85.1	84.6	84.1	83.5
50	88.4	87.9	87.4	86.8	86.3	85.8	85.3	84.8	84.3	83.7
51	88.6	88.1	87.5	87.0	86.5	86.0	85.5	85.0	84.4	83.9
52	88.7	88.2	87.7	87.2	86.7	86.2	85.6	85.1	84.6	84.1
53	88.8	88.3	87.8	87.3	86.8	86.3	85.8	85.3	84.8	84.3
54	89.0	88.5	88.0	87.5	87.0	86.5	86.0	85.5	85.0	84.5
55	89.1	88.6	88.1	87.6	87.1	86.6	86.1	85.7	85.2	84.7
56	89.2	88.7	88.2	87.8	87.3	86.8	86.3	85.8	85.3	84.9
57	89.3	88.9	88.4	87.9	87.4	86.9	86.4	86.0	85.5	85.0

表 2a₁（续）

$t-t_w$ \ t	2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9	3.0
58	89.5	89.0	88.5	88.0	87.5	87.1	86.6	86.1	85.7	85.2
59	89.6	89.1	88.6	88.1	87.7	87.2	86.7	86.3	85.8	85.3
60	89.7	89.2	88.7	88.3	87.8	87.3	86.9	86.4	86.0	85.5
61	89.8	89.3	88.9	88.4	87.9	87.5	87.0	86.5	86.1	85.6
62	89.9	89.4	89.0	88.5	88.0	87.6	87.1	86.7	86.2	85.8
63	90.0	89.5	89.1	88.6	88.2	87.7	87.3	86.8	86.4	85.9
64	90.1	89.6	89.2	88.7	88.3	87.8	87.4	86.9	86.5	86.1
65	90.2	89.7	89.3	88.8	88.4	87.9	87.5	87.1	86.6	86.2
66	90.3	89.8	89.4	88.9	88.5	88.1	87.6	87.2	86.8	86.3
67	90.4	89.9	89.5	89.0	88.6	88.2	87.7	87.3	86.9	86.4
68	90.5	90.0	89.6	89.1	88.7	88.3	87.9	87.4	87.0	86.6
69	90.5	90.1	89.7	89.2	88.8	88.4	88.0	87.5	87.1	86.7
70	90.6	90.2	89.8	89.3	88.9	88.5	88.1	87.6	87.2	86.8
71	90.7	90.3	89.9	89.4	89.0	88.6	88.2	87.8	87.3	86.9
72	90.8	90.4	89.9	89.5	89.1	88.7	88.3	87.9	87.4	87.0
73	90.9	90.4	90.0	89.6	89.2	88.8	88.4	88.0	87.6	87.1
74	90.9	90.5	90.1	89.7	89.3	88.9	88.5	88.1	87.7	87.3
75	91.0	90.6	90.2	89.8	89.4	89.0	88.6	88.2	87.8	87.4
76	91.1	90.7	90.3	89.9	89.5	89.1	88.7	88.3	87.9	87.5
77	91.2	90.8	90.4	90.0	89.6	89.2	88.8	88.4	88.0	87.6
78	91.2	90.8	90.4	90.0	89.6	89.2	88.8	88.4	88.1	87.7
79	91.3	90.9	90.5	90.1	89.7	89.3	88.9	88.5	88.2	87.8
80	91.4	91.0	90.6	90.2	89.8	89.4	89.0	88.6	88.2	87.9
81	91.4	91.1	90.7	90.3	89.9	89.5	89.1	88.7	88.3	88.0
82	91.5	91.1	90.7	90.3	90.0	89.6	89.2	88.8	88.4	88.0
83	91.6	91.2	90.8	90.4	90.0	89.7	89.3	88.9	88.5	88.1
84	91.6	91.3	90.9	90.5	90.1	89.7	89.4	89.0	88.6	88.2
85	91.7	91.3	90.9	90.6	90.2	89.8	89.4	89.1	88.7	88.3
86	91.8	91.4	91.0	90.6	90.3	89.9	89.5	89.1	88.8	88.4
87	91.8	91.4	91.1	90.7	90.3	90.0	89.6	89.2	88.8	88.5
88	91.9	91.5	91.1	90.8	90.4	90.0	89.7	89.3	88.9	88.6
89	91.9	91.6	91.2	90.8	90.5	90.1	89.7	89.4	89.0	88.6
90	92.0	91.6	91.3	90.9	90.5	90.2	89.8	89.4	89.1	88.7
91	92.1	91.7	91.3	91.0	90.6	90.2	89.9	89.5	89.2	88.8
92	92.1	91.8	91.4	91.0	90.7	90.3	90.0	89.6	89.2	88.9
93	92.2	91.8	91.5	91.1	90.7	90.4	90.0	89.7	89.3	89.0
94	92.2	91.9	91.5	91.2	90.8	90.4	90.1	89.7	89.4	89.0
95	92.3	91.9	91.6	91.2	90.9	90.5	90.2	89.8	89.5	89.1
96	92.3	92.0	91.6	91.3	90.9	90.6	90.2	89.9	89.5	89.2
97	92.4	92.0	91.7	91.3	91.0	90.6	90.3	89.9	89.6	89.3
98	92.4	92.1	91.7	91.4	91.0	90.7	90.4	90.0	89.7	89.3
99	92.5	92.1	91.8	91.5	91.1	90.8	90.4	90.1	89.7	89.4
100	92.5	92.2	91.9	91.5	91.2	90.8	90.5	90.1	89.8	89.5

表 2a₁（续）

$t-t_w$ / t	3.1	3.2	3.3	3.4	3.5	3.6	3.7	3.8	3.9	4.0
15	64.6	63.5	62.4	61.3	60.2	59.1	58.1	57.0	55.9	54.8
16	65.7	64.7	63.6	62.6	61.6	60.5	59.5	58.4	57.4	56.4
17	66.9	65.9	64.8	63.8	62.8	61.8	60.8	59.8	58.8	57.8
18	67.9	66.9	66.0	65.0	64.0	63.0	62.1	61.1	60.1	59.2
19	68.9	68.0	67.0	66.1	65.1	64.2	63.2	62.3	61.4	60.4
20	69.8	68.9	68.0	67.1	66.2	65.2	64.3	63.4	62.5	61.6
21	70.7	69.8	68.9	68.0	67.1	66.2	65.4	64.5	63.6	62.7
22	71.5	70.7	69.8	68.9	68.1	67.2	66.3	65.5	64.6	63.8
23	72.3	71.5	70.6	69.8	68.9	68.1	67.3	66.4	65.6	64.8
24	73.0	72.2	71.4	70.6	69.7	68.9	68.1	67.3	66.5	65.7
25	73.7	72.9	72.1	71.3	70.5	69.7	68.9	68.2	67.4	66.6
26	74.4	73.6	72.8	72.0	71.3	70.5	69.7	68.9	68.2	67.4
27	75.0	74.2	73.5	72.7	71.9	71.2	70.4	69.7	68.9	68.2
28	75.6	74.8	74.1	73.3	72.6	71.9	71.1	70.4	69.7	68.9
29	76.1	75.4	74.7	73.9	73.2	72.5	71.8	71.1	70.4	69.7
30	76.6	75.9	75.2	74.5	73.8	73.1	72.4	71.7	71.0	70.3
31	77.1	76.4	75.7	75.1	74.4	73.7	73.0	72.3	71.6	71.0
32	77.6	76.9	76.2	75.6	74.9	74.2	73.5	72.9	72.2	71.6
33	78.1	77.4	76.7	76.1	75.4	74.7	74.1	73.4	72.8	72.1
34	78.5	77.8	77.2	76.5	75.9	75.2	74.6	73.9	73.3	72.7
35	78.9	78.2	77.6	77.0	76.3	75.7	75.1	74.4	73.8	73.2
36	79.3	78.6	78.0	77.4	76.8	76.1	75.5	74.9	74.3	73.7
37	79.6	79.0	78.4	77.8	77.2	76.6	76.0	75.3	74.7	74.1
38	80.0	79.4	78.8	78.2	77.6	77.0	76.4	75.8	75.2	74.6
39	80.3	79.7	79.1	78.5	77.9	77.4	76.8	76.2	75.6	75.0
40	80.6	80.1	79.5	78.9	78.3	77.7	77.1	76.6	76.0	75.4
41	81.0	80.4	79.8	79.2	78.7	78.1	77.5	76.9	76.4	75.8
42	81.2	80.7	80.1	79.5	79.0	78.4	77.9	77.3	76.7	76.2
43	81.5	81.0	80.4	79.9	79.3	78.7	78.2	77.6	77.1	76.6
44	81.8	81.3	80.7	80.2	79.6	79.1	78.5	78.0	77.4	76.9
45	82.1	81.5	81.0	80.4	79.9	79.4	78.8	78.3	77.8	77.2
46	82.3	81.8	81.2	80.7	80.2	79.6	79.1	78.6	78.1	77.6
47	82.6	82.0	81.5	81.0	80.4	79.9	79.4	78.9	78.4	77.9
48	82.8	82.3	81.7	81.2	80.7	80.2	79.7	79.2	78.7	78.2
49	83.0	82.5	82.0	81.5	81.0	80.5	79.9	79.4	78.9	78.4
50	83.2	82.7	82.2	81.7	81.2	80.7	80.2	79.7	79.2	78.7
51	83.4	82.9	82.4	81.9	81.4	80.9	80.4	80.0	79.5	79.0
52	83.6	83.1	82.6	82.2	81.7	81.2	80.7	80.2	79.7	79.2
53	83.8	83.3	82.9	82.4	81.9	81.4	80.9	80.4	80.0	79.5
54	84.0	83.5	83.1	82.6	82.1	81.6	81.1	80.7	80.2	79.7
55	84.2	83.7	83.2	82.8	82.3	81.8	81.3	80.9	80.4	79.9
56	84.4	83.9	83.4	83.0	82.5	82.0	81.6	81.1	80.6	80.2
57	84.6	84.1	83.6	83.1	82.7	82.2	81.8	81.3	80.8	80.4

表 2a₁（续）

$t-t_w$ / t	3.1	3.2	3.3	3.4	3.5	3.6	3.7	3.8	3.9	4.0
58	84.7	84.3	83.8	83.3	82.9	82.4	82.0	81.5	81.0	80.6
59	84.9	84.4	84.0	83.5	83.0	82.6	82.1	81.7	81.2	80.8
60	85.0	84.6	84.1	83.7	83.2	82.8	82.3	81.9	81.4	81.0
61	85.2	84.7	84.3	83.8	83.4	82.9	82.5	82.1	81.6	81.2
62	85.3	84.9	84.4	84.0	83.6	83.1	82.7	82.2	81.8	81.4
63	85.5	85.0	84.6	84.2	83.7	83.3	82.8	82.4	82.0	81.6
64	85.6	85.2	84.7	84.3	83.9	83.4	83.0	82.6	82.2	81.7
65	85.8	85.3	84.9	84.5	84.0	83.6	83.2	82.8	82.3	81.9
66	85.9	85.5	85.0	84.6	84.2	83.8	83.3	82.9	82.5	82.1
67	86.0	85.6	85.2	84.7	84.3	83.9	83.5	83.1	82.7	82.2
68	86.1	85.7	85.3	84.9	84.5	84.0	83.6	83.2	82.8	82.4
69	86.3	85.9	85.4	85.0	84.6	84.2	83.8	83.4	83.0	82.6
70	86.4	86.0	85.6	85.2	84.7	84.3	83.9	83.5	83.1	82.7
71	86.5	86.1	85.7	85.3	84.9	84.5	84.1	83.7	83.3	82.9
72	86.6	86.2	85.8	85.4	85.0	84.6	84.2	83.8	83.4	83.0
73	86.7	86.3	85.9	85.5	85.1	84.7	84.3	83.9	83.5	83.1
74	86.9	86.5	86.0	85.7	85.3	84.9	84.5	84.1	83.7	83.3
75	87.0	86.6	86.2	85.8	85.4	85.0	84.6	84.2	83.8	83.4
76	87.1	86.7	86.3	85.9	85.5	85.1	84.7	84.3	83.9	83.6
77	87.2	86.8	86.4	86.0	85.6	85.2	84.8	84.5	84.1	83.7
78	87.3	86.9	86.5	86.1	85.7	85.3	85.0	84.6	84.2	83.8
79	87.4	87.0	86.6	86.2	85.8	85.5	85.1	84.7	84.3	83.9
80	87.5	87.1	86.7	86.3	85.9	85.6	85.2	84.8	84.4	84.1
81	87.6	87.2	86.8	86.4	86.1	85.7	85.3	84.9	84.6	84.2
82	87.7	87.3	86.9	86.5	86.2	85.8	85.4	85.0	84.7	84.3
83	87.8	87.4	87.0	86.6	86.3	85.9	85.5	85.2	84.8	84.4
84	87.9	87.5	87.1	86.7	86.4	86.0	85.6	85.3	84.9	84.5
85	87.9	87.6	87.2	86.8	86.5	86.1	85.7	85.4	85.0	84.7
86	88.0	87.7	87.3	86.9	86.6	86.2	85.8	85.5	85.1	84.8
87	88.1	87.8	87.4	87.0	86.7	86.3	85.9	85.6	85.2	84.9
88	88.2	87.8	87.5	87.1	86.8	86.4	86.0	85.7	85.3	85.0
89	88.3	87.9	87.6	87.2	86.9	86.5	86.1	85.8	85.4	85.1
90	88.4	88.0	87.7	87.3	87.0	86.6	86.2	85.9	85.5	85.2
91	88.5	88.1	87.7	87.4	87.0	86.7	86.3	86.0	85.6	85.3
92	88.5	88.2	87.8	87.5	87.1	86.8	86.4	86.1	85.7	85.4
93	88.6	88.3	87.9	87.6	87.2	86.9	86.5	86.2	85.8	85.5
94	88.7	88.3	88.0	87.7	87.3	87.0	86.6	86.3	85.9	85.6
95	88.8	88.4	88.1	87.7	87.4	87.1	86.7	86.4	86.0	85.7
96	88.8	88.5	88.2	87.8	87.5	87.1	86.8	86.5	86.1	85.8
97	88.9	88.6	88.2	87.9	87.6	87.2	86.9	86.6	86.2	85.9
98	89.0	88.7	88.3	88.0	87.6	87.3	87.0	86.6	86.3	86.0
99	89.1	88.7	88.4	88.1	87.7	87.4	87.1	86.7	86.4	86.1
100	89.1	88.8	88.5	88.1	87.8	87.5	87.2	86.8	86.5	86.2

表 2a₁（续）

$t\diagdown{}^{t-t_w}$ / t	4.1	4.2	4.3	4.4	4.5	4.6	4.7	4.8	4.9	5.0
15	53.8	52.7	51.7	50.6	49.6	48.5	47.5	46.4	45.4	44.3
16	55.4	54.3	53.3	52.3	51.3	50.3	49.3	48.3	47.3	46.3
17	56.8	55.8	54.9	53.9	52.9	51.9	50.9	50.0	49.0	48.0
18	58.2	57.3	56.3	55.3	54.4	53.5	52.5	51.6	50.6	49.7
19	59.5	58.6	57.7	56.7	55.8	54.9	54.0	53.1	52.2	51.3
20	60.7	59.8	58.9	58.0	57.2	56.3	55.4	54.5	53.6	52.8
21	61.9	61.0	60.1	59.3	58.4	57.5	56.7	55.8	55.0	54.1
22	62.9	62.1	61.3	60.4	59.6	58.7	57.9	57.1	56.3	55.4
23	64.0	63.1	62.3	61.5	60.7	59.9	59.1	58.3	57.5	56.7
24	64.9	64.1	63.3	62.5	61.7	60.9	60.2	59.4	58.6	57.8
25	65.8	65.0	64.3	63.5	62.7	62.0	61.2	60.4	59.7	58.9
26	66.7	65.9	65.2	64.4	63.7	62.9	62.2	61.4	60.7	59.9
27	67.5	66.7	66.0	65.3	64.5	63.8	63.1	62.4	61.6	60.9
28	68.2	67.5	66.8	66.1	65.4	64.7	63.9	63.2	62.5	61.8
29	68.9	68.2	67.5	66.8	66.2	65.5	64.8	64.1	63.4	62.7
30	69.6	68.9	68.3	67.6	66.9	66.2	65.5	64.9	64.2	63.5
31	70.3	69.6	68.9	68.3	67.6	66.9	66.3	65.6	65.0	64.3
32	70.9	70.2	69.6	68.9	68.3	67.6	67.0	66.3	65.7	65.1
33	71.5	70.8	70.2	69.6	68.9	68.3	67.6	67.0	66.4	65.8
34	72.0	71.4	70.8	70.1	69.5	68.9	68.3	67.7	67.0	66.4
35	72.6	71.9	71.3	70.7	70.1	69.5	68.9	68.3	67.7	67.1
36	73.1	72.5	71.9	71.2	70.6	70.0	69.5	68.9	68.3	67.7
37	73.5	72.9	72.4	71.8	71.2	70.6	70.0	69.4	68.8	68.3
38	74.0	73.4	72.8	72.3	71.7	71.1	70.5	69.9	69.4	68.8
39	74.4	73.9	73.3	72.7	72.2	71.6	71.0	70.5	69.9	69.3
40	74.9	74.3	73.7	73.2	72.6	72.0	71.5	70.9	70.4	69.8
41	75.3	74.7	74.1	73.6	73.0	72.5	71.9	71.4	70.9	70.3
42	75.6	75.1	74.5	74.0	73.5	72.9	72.4	71.8	71.3	70.8
43	76.0	75.5	74.9	74.4	73.9	73.3	72.8	72.3	71.7	71.2
44	76.4	75.8	75.3	74.8	74.2	73.7	73.2	72.7	72.2	71.6
45	76.7	76.2	75.7	75.1	74.6	74.1	73.6	73.1	72.6	72.0
46	77.0	76.5	76.0	75.5	75.0	74.5	74.0	73.4	72.9	72.4
47	77.3	76.8	76.3	75.8	75.3	74.8	74.3	73.8	73.3	72.8
48	77.6	77.1	76.6	76.1	75.6	75.1	74.7	74.2	73.7	73.2
49	77.9	77.4	76.9	76.4	76.0	75.5	75.0	74.5	74.0	73.5
50	78.2	77.7	77.2	76.7	76.3	75.8	75.3	74.8	74.3	73.9
51	78.5	78.0	77.5	77.0	76.6	76.1	75.6	75.1	74.7	74.2
52	78.7	78.3	77.8	77.3	76.8	76.4	75.9	75.4	75.0	74.5
53	79.0	78.5	78.1	77.6	77.1	76.6	76.2	75.7	75.3	74.8
54	79.2	78.8	78.3	77.8	77.4	76.9	76.5	76.0	75.5	75.1
55	79.5	79.0	78.6	78.1	77.6	77.2	76.7	76.3	75.8	75.4
56	79.7	79.2	78.8	78.3	77.9	77.4	77.0	76.5	76.1	75.6
57	79.9	79.5	79.0	78.6	78.1	77.7	77.2	76.8	76.3	75.9

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表 2a₁（续）

$t-t_w$ / t	4.1	4.2	4.3	4.4	4.5	4.6	4.7	4.8	4.9	5.0
58	80.1	79.7	79.2	78.8	78.4	77.9	77.5	77.0	76.6	76.2
59	80.4	79.9	79.5	79.0	78.6	78.1	77.7	77.3	76.8	76.4
60	80.6	80.1	79.7	79.2	78.8	78.4	77.9	77.5	77.1	76.7
61	80.7	80.3	79.9	79.4	79.0	78.6	78.2	77.7	77.3	76.9
62	80.9	80.5	80.1	79.7	79.2	78.8	78.4	78.0	77.5	77.1
63	81.1	80.7	80.3	79.9	79.4	79.0	78.6	78.2	77.8	77.3
64	81.3	80.9	80.5	80.0	79.6	79.2	78.8	78.4	78.0	77.6
65	81.5	81.1	80.6	80.2	79.8	79.4	79.0	78.6	78.2	77.8
66	81.7	81.2	80.8	80.4	80.0	79.6	79.2	78.8	78.4	78.0
67	81.8	81.4	81.0	80.6	80.2	79.8	79.4	79.0	78.6	78.2
68	82.0	81.6	81.2	80.8	80.4	80.0	79.6	79.2	78.8	78.4
69	82.1	81.7	81.3	80.9	80.5	80.1	79.7	79.3	79.0	78.6
70	82.3	81.9	81.5	81.1	80.7	80.3	79.9	79.5	79.1	78.7
71	82.5	82.1	81.7	81.3	80.9	80.5	80.1	79.7	79.3	78.9
72	82.6	82.2	81.8	81.4	81.0	80.6	80.3	79.9	79.5	79.1
73	82.8	82.4	82.0	81.6	81.2	80.8	80.4	80.0	79.7	79.3
74	82.9	82.5	82.1	81.7	81.4	81.0	80.6	80.2	79.8	79.5
75	83.0	82.7	82.3	81.9	81.5	81.1	80.7	80.4	80.0	79.6
76	83.2	82.8	82.4	82.0	81.7	81.3	80.9	80.5	80.2	79.8
77	83.3	82.9	82.6	82.2	81.8	81.4	81.1	80.7	80.3	79.9
78	83.4	83.1	82.7	82.3	81.9	81.6	81.2	80.8	80.5	80.1
79	83.6	83.2	82.8	82.5	82.1	81.7	81.3	81.0	80.6	80.3
80	83.7	83.3	83.0	82.6	82.2	81.9	81.5	81.1	80.8	80.4
81	83.8	83.5	83.1	82.7	82.4	82.0	81.6	81.3	80.9	80.6
82	83.9	83.6	83.2	82.9	82.5	82.1	81.8	81.4	81.1	80.7
83	84.1	83.7	83.3	83.0	82.6	82.3	81.9	81.5	81.2	80.8
84	84.2	83.8	83.5	83.1	82.7	82.4	82.0	81.7	81.3	81.0
85	84.3	83.9	83.6	83.2	82.9	82.5	82.2	81.8	81.5	81.1
86	84.4	84.1	83.7	83.4	83.0	82.6	82.3	81.9	81.6	81.3
87	84.5	84.2	83.8	83.5	83.1	82.8	82.4	82.1	81.7	81.4
88	84.6	84.3	83.9	83.6	83.2	82.9	82.6	82.2	81.9	81.5
89	84.7	84.4	84.1	83.7	83.4	83.0	82.7	82.3	82.0	81.7
90	84.9	84.5	84.2	83.8	83.5	83.1	82.8	82.5	82.1	81.8
91	85.0	84.6	84.3	83.9	83.6	83.3	82.9	82.6	82.2	81.9
92	85.1	84.7	84.4	84.0	83.7	83.4	83.0	82.7	82.4	82.0
93	85.2	84.8	84.5	84.2	83.8	83.5	83.1	82.8	82.5	82.2
94	85.3	84.9	84.6	84.3	83.9	83.6	83.3	82.9	82.6	82.3
95	85.4	85.0	84.7	84.4	84.0	83.7	83.4	83.0	82.7	82.4
96	85.5	85.1	84.8	84.5	84.1	83.8	83.5	83.2	82.8	82.5
97	85.6	85.2	84.9	84.6	84.2	83.9	83.6	83.3	82.9	82.6
98	85.7	85.3	85.0	84.7	84.3	84.0	83.7	83.4	83.1	82.7
99	85.8	85.4	85.1	84.8	84.5	84.1	83.8	83.5	83.2	82.8
100	85.8	85.5	85.2	84.9	84.6	84.2	83.9	83.6	83.3	83.0

表 2a₁（续）

t＼t－t_w	5.2	5.4	5.6	5.8	6.0	6.2	6.4	6.6	6.8	7.0
15	42.3	40.2	38.2	36.2	34.1	32.1	30.1	28.1	26.2	24.2
16	44.3	42.3	40.3	38.4	36.4	34.5	32.5	30.6	28.7	26.8
17	46.1	44.2	42.3	40.4	38.5	36.7	34.8	33.0	31.1	29.3
18	47.9	46.0	44.2	42.3	40.5	38.7	36.9	35.1	33.4	31.6
19	49.5	47.7	45.9	44.2	42.4	40.7	38.9	37.2	35.5	33.8
20	51.0	49.3	47.6	45.9	44.2	42.5	40.8	39.1	37.5	35.8
21	52.4	50.8	49.1	47.4	45.8	44.2	42.5	40.9	39.3	37.7
22	53.8	52.2	50.6	49.0	47.4	45.8	44.2	42.6	41.1	39.5
23	55.1	53.5	51.9	50.4	48.8	47.3	45.7	44.2	42.7	41.2
24	56.3	54.7	53.2	51.7	50.2	48.7	47.2	45.7	44.3	42.8
25	57.4	55.9	54.4	53.0	51.5	50.0	48.6	47.1	45.7	44.3
26	58.5	57.0	55.6	54.1	52.7	51.3	49.9	48.5	47.1	45.7
27	59.5	58.1	56.7	55.3	53.9	52.5	51.1	49.8	48.4	47.1
28	60.4	59.1	57.7	56.3	55.0	53.6	52.3	50.9	49.6	48.3
29	61.3	60.0	58.7	57.3	56.0	54.7	53.4	52.1	50.8	49.5
30	62.2	60.9	59.6	58.3	57.0	55.7	54.4	53.1	51.9	50.6
31	63.0	61.7	60.4	59.2	57.9	56.6	55.4	54.2	52.9	51.7
32	63.8	62.5	61.3	60.0	58.8	57.6	56.3	55.1	53.9	52.7
33	64.5	63.3	62.0	60.8	59.6	58.4	57.2	56.0	54.9	53.7
34	65.2	64.0	62.8	61.6	60.4	59.2	58.1	56.9	55.7	54.6
35	65.9	64.7	63.5	62.3	61.2	60.0	58.9	57.7	56.6	55.5
36	66.5	65.3	64.2	63.0	61.9	60.8	59.6	58.5	57.4	56.3
37	67.1	66.0	64.8	63.7	62.6	61.5	60.4	59.3	58.2	57.1
38	67.7	66.5	65.4	64.3	63.2	62.1	61.0	60.0	58.9	57.8
39	68.2	67.1	66.0	64.9	63.8	62.8	61.7	60.6	59.6	58.6
40	68.7	67.7	66.6	65.5	64.4	63.4	62.3	61.3	60.3	59.2
41	69.2	68.2	67.1	66.1	65.0	64.0	62.9	61.9	60.9	59.9
42	69.7	68.7	67.6	66.6	65.6	64.5	63.5	62.5	61.5	60.5
43	70.2	69.1	68.1	67.1	66.1	65.1	64.1	63.1	62.1	61.1
44	70.6	69.6	68.6	67.6	66.6	65.6	64.6	63.6	62.7	61.7
45	71.0	70.0	69.0	68.0	67.1	66.1	65.1	64.1	63.2	62.2
46	71.4	70.4	69.5	68.5	67.5	66.6	65.6	64.6	63.7	62.8
47	71.8	70.9	69.9	68.9	68.0	67.0	66.1	65.1	64.2	63.3
48	72.2	71.2	70.3	69.3	68.4	67.4	66.5	65.6	64.7	63.8
49	72.6	71.6	70.7	69.7	68.8	67.9	67.0	66.0	65.1	64.2
50	72.9	72.0	71.0	70.1	69.2	68.3	67.4	66.5	65.6	64.7
51	73.2	72.3	71.4	70.5	69.6	68.7	67.8	66.9	66.0	65.1
52	73.6	72.7	71.7	70.8	69.9	69.0	68.2	67.3	66.4	65.5
53	73.9	73.0	72.1	71.2	70.3	69.4	68.5	67.7	66.8	66.0
54	74.2	73.3	72.4	71.5	70.6	69.8	68.9	68.0	67.2	66.3
55	74.5	73.6	72.7	71.8	71.0	70.1	69.2	68.4	67.6	66.7
56	74.8	73.9	73.0	72.1	71.3	70.4	69.6	68.7	67.9	67.1
57	75.0	74.2	73.3	72.4	71.6	70.8	69.9	69.1	68.3	67.4

表 2a₁（续）

$t-t_w$ / t	5.2	5.4	5.6	5.8	6.0	6.2	6.4	6.6	6.8	7.0
58	75.3	74.4	73.6	72.7	71.9	71.1	70.2	69.4	68.6	67.8
59	75.6	74.7	73.9	73.0	72.2	71.4	70.5	69.7	68.9	68.1
60	75.8	75.0	74.1	73.3	72.5	71.7	70.8	70.0	69.2	68.4
61	76.1	75.2	74.4	73.6	72.7	71.9	71.1	70.3	69.5	68.8
62	76.3	75.5	74.6	73.8	73.0	72.2	71.4	70.6	69.8	69.1
63	76.5	75.7	74.9	74.1	73.3	72.5	71.7	70.9	70.1	69.4
64	76.7	75.9	75.1	74.3	73.5	72.7	72.0	71.2	70.4	69.6
65	77.0	76.2	75.4	74.6	73.8	73.0	72.2	71.5	70.7	69.9
66	77.2	76.4	75.6	74.8	74.0	73.2	72.5	71.7	71.0	70.2
67	77.4	76.6	75.8	75.0	74.3	73.5	72.7	72.0	71.2	70.5
68	77.6	76.8	76.0	75.2	74.5	73.7	73.0	72.2	71.5	70.7
69	77.8	77.0	76.2	75.5	74.7	73.9	73.2	72.5	71.7	71.0
70	78.0	77.2	76.4	75.7	74.9	74.2	73.4	72.7	72.0	71.2
71	78.2	77.4	76.6	75.9	75.1	74.4	73.7	72.9	72.2	71.5
72	78.3	77.6	76.8	76.1	75.3	74.6	73.9	73.1	72.4	71.7
73	78.5	77.8	77.0	76.3	75.5	74.8	74.1	73.4	72.7	71.9
74	78.7	78.0	77.2	76.5	75.7	75.0	74.3	73.6	72.9	72.2
75	78.9	78.1	77.4	76.7	75.9	75.2	74.5	73.8	73.1	72.4
76	79.0	78.3	77.6	76.9	76.1	75.4	74.7	74.0	73.3	72.6
77	79.2	78.5	77.8	77.0	76.3	75.6	74.9	74.2	73.5	72.8
78	79.4	78.6	77.9	77.2	76.5	75.8	75.1	74.4	73.7	73.0
79	79.5	78.8	78.1	77.4	76.7	76.0	75.3	74.6	73.9	73.2
80	79.7	79.0	78.3	77.6	76.9	76.2	75.5	74.8	74.1	73.4
81	79.8	79.1	78.4	77.7	77.0	76.3	75.7	75.0	74.3	73.6
82	80.0	79.3	78.6	77.9	77.2	76.5	75.8	75.2	74.5	73.8
83	80.1	79.4	78.7	78.1	77.4	76.7	76.0	75.3	74.7	74.0
84	80.3	79.6	78.9	78.2	77.5	76.9	76.2	75.5	74.9	74.2
85	80.4	79.7	79.1	78.4	77.7	77.0	76.4	75.7	75.0	74.4
86	80.6	79.9	79.2	78.5	77.9	77.2	76.5	75.9	75.2	74.6
87	80.7	80.0	79.3	78.7	78.0	77.3	76.7	76.0	75.4	74.7
88	80.8	80.2	79.5	78.8	78.2	77.5	76.9	76.2	75.6	74.9
89	81.0	80.3	79.6	79.0	78.3	77.7	77.0	76.4	75.7	75.1
90	81.1	80.4	79.8	79.1	78.5	77.8	77.2	76.5	75.9	75.3
91	81.2	80.6	79.9	79.3	78.6	78.0	77.3	76.7	76.0	75.4
92	81.4	80.7	80.1	79.4	78.8	78.1	77.5	76.8	76.2	75.6
93	81.5	80.8	80.2	79.5	78.9	78.3	77.6	77.0	76.4	75.7
94	81.6	81.0	80.3	79.7	79.0	78.4	77.8	77.1	76.5	75.9
95	81.7	81.1	80.4	79.8	79.2	78.5	77.9	77.3	76.7	76.1
96	81.9	81.2	80.6	79.9	79.3	78.7	78.1	77.4	76.8	76.2
97	82.0	81.3	80.7	80.1	79.4	78.8	78.2	77.6	77.0	76.4
98	82.1	81.5	80.8	80.2	79.6	79.0	78.3	77.7	77.1	76.5
99	82.2	81.6	81.0	80.3	79.7	79.1	78.5	77.9	77.3	76.7
100	82.3	81.7	81.1	80.5	79.8	79.2	78.6	78.0	77.4	76.8

表 2a₁（续）

$t-t_w$ / t	7.2	7.4	7.6	7.8	8.0	8.2	8.4	8.6	8.8	9.0
15	22.2	20.3	18.3	16.4	14.5	12.6	10.7	8.8	6.9	5.1
16	24.9	23.1	21.2	19.3	17.5	15.7	13.8	12.0	10.2	8.4
17	27.5	25.7	23.9	22.1	20.3	18.5	16.8	15.0	13.3	11.5
18	29.8	28.1	26.4	24.6	22.9	21.2	19.5	17.8	16.2	14.5
19	32.1	30.4	28.7	27.0	25.4	23.7	22.1	20.5	18.9	17.2
20	34.2	32.5	30.9	29.3	27.7	26.1	24.5	22.9	21.4	19.8
21	36.1	34.6	33.0	31.4	29.9	28.3	26.8	25.3	23.8	22.3
22	38.0	36.4	34.9	33.4	31.9	30.4	28.9	27.5	26.0	24.5
23	39.7	38.2	36.8	35.3	33.8	32.4	30.9	29.5	28.1	26.7
24	41.3	39.9	38.5	37.1	35.6	34.2	32.8	31.4	30.1	28.7
25	42.9	41.5	40.1	38.7	37.3	36.0	34.6	33.3	31.9	30.6
26	44.3	43.0	41.6	40.3	38.9	37.6	36.3	35.0	33.7	32.4
27	45.7	44.4	43.1	41.8	40.5	39.2	37.9	36.6	35.3	34.1
28	47.0	45.7	44.4	43.2	41.9	40.6	39.4	38.1	36.9	35.7
29	48.2	47.0	45.7	44.5	43.2	42.0	40.8	39.6	38.4	37.2
30	49.4	48.2	46.9	45.7	44.5	43.3	42.1	40.9	39.8	38.6
31	50.5	49.3	48.1	46.9	45.7	44.6	43.4	42.2	41.1	39.9
32	51.5	50.4	49.2	48.0	46.9	45.7	44.6	43.5	42.3	41.2
33	52.5	51.4	50.2	49.1	48.0	46.8	45.7	44.6	43.5	42.4
34	53.5	52.3	51.2	50.1	49.0	47.9	46.8	45.7	44.6	43.6
35	54.4	53.3	52.2	51.1	50.0	48.9	47.8	46.8	45.7	44.7
36	55.2	54.1	53.0	52.0	50.9	49.9	48.8	47.8	46.7	45.7
37	56.0	55.0	53.9	52.8	51.8	50.8	49.7	48.7	47.7	46.7
38	56.8	55.7	54.7	53.7	52.6	51.6	50.6	49.6	48.6	47.6
39	57.5	56.5	55.5	54.5	53.5	52.5	51.5	50.5	49.5	48.5
40	58.2	57.2	56.2	55.2	54.2	53.2	52.3	51.3	50.3	49.4
41	58.9	57.9	56.9	55.9	55.0	54.0	53.0	52.1	51.1	50.2
42	59.5	58.6	57.6	56.6	55.7	54.7	53.8	52.8	51.9	51.0
43	60.2	59.2	58.2	57.3	56.3	55.4	54.5	53.6	52.6	51.7
44	60.7	59.8	58.9	57.9	57.0	56.1	55.2	54.2	53.3	52.5
45	61.3	60.4	59.4	58.5	57.6	56.7	55.8	54.9	54.0	53.1
46	61.8	60.9	60.0	59.1	58.2	57.3	56.4	55.5	54.7	53.8
47	62.4	61.5	60.6	59.7	58.8	57.9	57.0	56.1	55.3	54.4
48	62.9	62.0	61.1	60.2	59.3	58.4	57.6	56.7	55.9	55.0
49	63.3	62.5	61.6	60.7	59.8	59.0	58.1	57.3	56.4	55.6
50	63.8	62.9	62.1	61.2	60.4	59.5	58.7	57.8	57.0	56.2
51	64.3	63.4	62.5	61.7	60.8	60.0	59.2	58.3	57.5	56.7
52	64.7	63.8	63.0	62.1	61.3	60.5	59.7	58.8	58.0	57.2
53	65.1	64.3	63.4	62.6	61.8	60.9	60.1	59.3	58.5	57.7
54	65.5	64.7	63.8	63.0	62.2	61.4	60.6	59.8	59.0	58.2
55	65.9	65.1	64.2	63.4	62.6	61.8	61.0	60.2	59.5	58.7
56	66.3	65.4	64.6	63.8	63.0	62.2	61.5	60.7	59.9	59.1
57	66.6	65.8	65.0	64.2	63.4	62.7	61.9	61.1	60.3	59.6

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表 2a₁（续）

$t-t_w$ / t	7.2	7.4	7.6	7.8	8.0	8.2	8.4	8.6	8.8	9.0
58	67.0	66.2	65.4	64.6	63.8	63.0	62.3	61.5	60.8	60.0
59	67.3	66.5	65.7	65.0	64.2	63.4	62.7	61.9	61.2	60.4
60	67.7	66.9	66.1	65.3	64.6	63.8	63.0	62.3	61.5	60.8
61	68.0	67.2	66.4	65.7	64.9	64.2	63.4	62.7	61.9	61.2
62	68.3	67.5	66.8	66.0	65.2	64.5	63.8	63.0	62.3	61.6
63	68.6	67.8	67.1	66.3	65.6	64.8	64.1	63.4	62.6	61.9
64	68.9	68.1	67.4	66.6	65.9	65.2	64.4	63.7	63.0	62.3
65	69.2	68.4	67.7	66.9	66.2	65.5	64.8	64.0	63.3	62.6
66	69.5	68.7	68.0	67.2	66.5	65.8	65.1	64.4	63.7	63.0
67	69.7	69.0	68.3	67.5	66.8	66.1	65.4	64.7	64.0	63.3
68	70.0	69.3	68.5	67.8	67.1	66.4	65.7	65.0	64.3	63.6
69	70.3	69.5	68.8	68.1	67.4	66.7	66.0	65.3	64.6	63.9
70	70.5	69.8	69.1	68.4	67.7	67.0	66.3	65.6	64.9	64.2
71	70.8	70.0	69.3	68.6	67.9	67.2	66.6	65.9	65.2	64.5
72	71.0	70.3	69.6	68.9	68.2	67.5	66.8	66.2	65.5	64.8
73	71.2	70.5	69.8	69.1	68.5	67.8	67.1	66.4	65.8	65.1
74	71.5	70.8	70.1	69.4	68.7	68.0	67.4	66.7	66.0	65.4
75	71.7	71.0	70.3	69.6	69.0	68.3	67.6	67.0	66.3	65.6
76	71.9	71.2	70.5	69.9	69.2	68.5	67.9	67.2	66.6	65.9
77	72.1	71.4	70.8	70.1	69.4	68.8	68.1	67.5	66.8	66.2
78	72.3	71.7	71.0	70.3	69.7	69.0	68.4	67.7	67.1	66.4
79	72.6	71.9	71.2	70.6	69.9	69.2	68.6	67.9	67.3	66.7
80	72.8	72.1	71.4	70.8	70.1	69.5	68.8	68.2	67.5	66.9
81	73.0	72.3	71.6	71.0	70.3	69.7	69.0	68.4	67.8	67.2
82	73.2	72.5	71.8	71.2	70.5	69.9	69.3	68.6	68.0	67.4
83	73.4	72.7	72.0	71.4	70.8	70.1	69.5	68.9	68.2	67.6
84	73.5	72.9	72.2	71.6	71.0	70.3	69.7	69.1	68.5	67.8
85	73.7	73.1	72.4	71.8	71.2	70.5	69.9	69.3	68.7	68.1
86	73.9	73.3	72.6	72.0	71.4	70.7	70.1	69.5	68.9	68.3
87	74.1	73.5	72.8	72.2	71.6	70.9	70.3	69.7	69.1	68.5
88	74.3	73.6	73.0	72.4	71.8	71.1	70.5	69.9	69.3	68.7
89	74.4	73.8	73.2	72.6	72.0	71.3	70.7	70.1	69.5	68.9
90	74.6	74.0	73.4	72.8	72.1	71.5	70.9	70.3	69.7	69.1
91	74.8	74.2	73.6	72.9	72.3	71.7	71.1	70.5	69.9	69.3
92	75.0	74.3	73.7	73.1	72.5	71.9	71.3	70.7	70.1	69.5
93	75.1	74.5	73.9	73.3	72.7	72.1	71.5	70.9	70.3	69.7
94	75.3	74.7	74.1	73.5	72.9	72.3	71.7	71.1	70.5	69.9
95	75.4	74.8	74.2	73.6	73.0	72.4	71.9	71.3	70.7	70.1
96	75.6	75.0	74.4	73.8	73.2	72.6	72.0	71.5	70.9	70.3
97	75.8	75.2	74.6	74.0	73.4	72.8	72.2	71.6	71.1	70.5
98	75.9	75.3	74.7	74.1	73.5	73.0	72.4	71.8	71.2	70.7
99	76.1	75.5	74.9	74.3	73.7	73.1	72.6	72.0	71.4	70.9
100	76.2	75.6	75.0	74.5	73.9	73.3	72.7	72.2	71.6	71.0

表 2a₁（续）

$t-t_w$ t	9.2	9.4	9.6	9.8	10.0	10.2	10.4	10.6	10.8	11.0
15	3.2	1.3								
16	6.6	4.8	3.1	1.3						
17	9.8	8.1	6.4	4.7	3.0	1.3				
18	12.8	11.2	9.5	7.9	6.3	4.7	3.0	1.4		
19	15.6	14.0	12.5	10.9	9.3	7.8	6.2	4.7	3.1	1.6
20	18.3	16.7	15.2	13.7	12.2	10.7	9.2	7.7	6.2	4.7
21	20.8	19.3	17.8	16.3	14.8	13.4	11.9	10.5	9.1	7.6
22	23.1	21.6	20.2	18.8	17.4	16.0	14.6	13.2	11.8	10.4
23	25.3	23.9	22.5	21.1	19.7	18.4	17.0	15.7	14.3	13.0
24	27.3	26.0	24.6	23.3	22.0	20.6	19.3	18.0	16.7	15.4
25	29.3	27.9	26.6	25.3	24.0	22.8	21.5	20.2	19.0	17.7
26	31.1	29.8	28.5	27.3	26.0	24.8	23.5	22.3	21.1	19.9
27	32.8	31.6	30.3	29.1	27.9	26.7	25.5	24.3	23.1	21.9
28	34.4	33.2	32.0	30.8	29.6	28.5	27.3	26.1	25.0	23.8
29	36.0	34.8	33.6	32.5	31.3	30.1	29.0	27.9	26.7	25.6
30	37.4	36.3	35.1	34.0	32.9	31.7	30.6	29.5	28.4	27.3
31	38.8	37.7	36.6	35.5	34.3	33.3	32.2	31.1	30.0	28.9
32	40.1	39.0	37.9	36.8	35.8	34.7	33.6	32.6	31.5	30.5
33	41.3	40.3	39.2	38.1	37.1	36.0	35.0	34.0	32.9	31.9
34	42.5	41.5	40.4	39.4	38.4	37.3	36.3	35.3	34.3	33.3
35	43.6	42.6	41.6	40.6	39.6	38.5	37.6	36.6	35.6	34.6
36	44.7	43.7	42.7	41.7	40.7	39.7	38.7	37.8	36.8	35.8
37	45.7	44.7	43.7	42.7	41.8	40.8	39.9	38.9	38.0	37.0
38	46.7	45.7	44.7	43.8	42.8	41.9	40.9	40.0	39.1	38.1
39	47.6	46.6	45.7	44.7	43.8	42.9	41.9	41.0	40.1	39.2
40	48.4	47.5	46.6	45.7	44.7	43.8	42.9	42.0	41.1	40.2
41	49.3	48.4	47.4	46.5	45.6	44.7	43.8	43.0	42.1	41.2
42	50.1	49.2	48.3	47.4	46.5	45.6	44.7	43.9	43.0	42.1
43	50.8	49.9	49.1	48.2	47.3	46.4	45.6	44.7	43.9	43.0
44	51.6	50.7	49.8	48.9	48.1	47.2	46.4	45.5	44.7	43.9
45	52.3	51.4	50.5	49.7	48.8	48.0	47.2	46.3	45.5	44.7
46	52.9	52.1	51.2	50.4	49.6	48.7	47.9	47.1	46.3	45.5
47	53.6	52.7	51.9	51.1	50.2	49.4	48.6	47.8	47.0	46.2
48	54.2	53.4	52.5	51.7	50.9	50.1	49.3	48.5	47.7	46.9
49	54.8	54.0	53.1	52.3	51.5	50.7	49.9	49.2	48.4	47.6
50	55.4	54.5	53.7	52.9	52.1	51.4	50.6	49.8	49.0	48.3
51	55.9	55.1	54.3	53.5	52.7	52.0	51.2	50.4	49.7	48.9
52	56.4	55.6	54.9	54.1	53.3	52.5	51.8	51.0	50.3	49.5
53	56.9	56.2	55.4	54.6	53.9	53.1	52.3	51.6	50.8	50.1
54	57.4	56.7	55.9	55.1	54.4	53.6	52.9	52.1	51.4	50.7
55	57.9	57.1	56.4	55.6	54.9	54.1	53.4	52.7	51.9	51.2
56	58.4	57.6	56.9	56.1	55.4	54.6	53.9	53.2	52.5	51.8
57	58.8	58.1	57.3	56.6	55.9	55.1	54.4	53.7	53.0	52.3

表 2a₁（续）

t―tw t	9.2	9.4	9.6	9.8	10.0	10.2	10.4	10.6	10.8	11.0
58	59.3	58.5	57.8	57.0	56.3	55.6	54.9	54.2	53.5	52.8
59	59.7	58.9	58.2	57.5	56.8	56.0	55.3	54.6	53.9	53.2
60	60.1	59.3	58.6	57.9	57.2	56.5	55.8	55.1	54.4	53.7
61	60.5	59.7	59.0	58.3	57.6	56.9	56.2	55.5	54.8	54.2
62	60.8	60.1	59.4	58.7	58.0	57.3	56.6	56.0	55.3	54.6
63	61.2	60.5	59.8	59.1	58.4	57.7	57.0	56.4	55.7	55.0
64	61.6	60.9	60.2	59.5	58.8	58.1	57.4	56.8	56.1	55.4
65	61.9	61.2	60.5	59.9	59.2	58.5	57.8	57.2	56.5	55.8
66	62.3	61.6	60.9	60.2	59.5	58.9	58.2	57.5	56.9	56.2
67	62.6	61.9	61.2	60.6	59.9	59.2	58.6	57.9	57.3	56.6
68	62.9	62.2	61.6	60.9	60.2	59.6	58.9	58.3	57.6	57.0
69	63.2	62.6	61.9	61.2	60.6	59.9	59.3	58.6	58.0	57.3
70	63.6	62.9	62.2	61.6	60.9	60.3	59.6	59.0	58.3	57.7
71	63.9	63.2	62.5	61.9	61.2	60.6	59.9	59.3	58.7	58.0
72	64.1	63.5	62.8	62.2	61.5	60.9	60.3	59.6	59.0	58.4
73	64.4	63.8	63.1	62.5	61.8	61.2	60.6	59.9	59.3	58.7
74	64.7	64.1	63.4	62.8	62.1	61.5	60.9	60.3	59.6	59.0
75	65.0	64.3	63.7	63.1	62.4	61.8	61.2	60.6	60.0	59.3
76	65.3	64.6	64.0	63.4	62.7	62.1	61.5	60.9	60.3	59.7
77	65.5	64.9	64.3	63.6	63.0	62.4	61.8	61.2	60.6	60.0
78	65.8	65.1	64.5	63.9	63.3	62.7	62.1	61.4	60.8	60.2
79	66.0	65.4	64.8	64.2	63.5	62.9	62.3	61.7	61.1	60.5
80	66.3	65.7	65.0	64.4	63.8	63.2	62.6	62.0	61.4	60.8
81	66.5	65.9	65.3	64.7	64.1	63.5	62.9	62.3	61.7	61.1
82	66.8	66.1	65.5	64.9	64.3	63.7	63.1	62.5	62.0	61.4
83	67.0	66.4	65.8	65.2	64.6	64.0	63.4	62.8	62.2	61.6
84	67.2	66.6	66.0	65.4	64.8	64.2	63.6	63.1	62.5	61.9
85	67.5	66.9	66.3	65.7	65.1	64.5	63.9	63.3	62.7	62.2
86	67.7	67.1	66.5	65.9	65.3	64.7	64.1	63.6	63.0	62.4
87	67.9	67.3	66.7	66.1	65.5	65.0	64.4	63.8	63.2	62.7
88	68.1	67.5	66.9	66.3	65.8	65.2	64.6	64.0	63.5	62.9
89	68.3	67.7	67.2	66.6	66.0	65.4	64.8	64.3	63.7	63.2
90	68.5	68.0	67.4	66.8	66.2	65.6	65.1	64.5	63.9	63.4
91	68.7	68.2	67.6	67.0	66.4	65.9	65.3	64.7	64.2	63.6
92	68.9	68.4	67.8	67.2	66.6	66.1	65.5	65.0	64.4	63.9
93	69.1	68.6	68.0	67.4	66.9	66.3	65.7	65.2	64.6	64.1
94	69.3	68.8	68.2	67.6	67.1	66.5	66.0	65.4	64.9	64.3
95	69.5	69.0	68.4	67.8	67.3	66.7	66.2	65.6	65.1	64.5
96	69.7	69.2	68.6	68.0	67.5	66.9	66.4	65.8	65.3	64.7
97	69.9	69.4	68.8	68.2	67.7	67.1	66.6	66.0	65.5	65.0
98	70.1	69.5	69.0	68.4	67.9	67.3	66.8	66.2	65.7	65.2
99	70.3	69.7	69.2	68.6	68.1	67.5	67.0	66.4	65.9	65.4
100	70.5	69.9	69.4	68.8	68.3	67.7	67.2	66.6	66.1	65.6

表 2a₁（续）

$t-t_w$ / t	11.5	12.0	12.5	13.5	13.5	14.0	14.5	15.0	15.5	16.0
15										
16										
17										
18										
19										
20	1.1									
21	4.1	0.6								
22	7.0	3.6	0.3							
23	9.7	6.4	3.2	0.1						
24	12.2	9.1	6.0	2.9						
25	14.6	11.5	8.5	5.6	2.6					
26	16.8	13.9	11.0	8.1	5.2	2.4				
27	19.0	16.1	13.2	10.4	7.7	5.0	2.3			
28	21.0	18.1	15.4	12.7	10.0	7.3	4.7	2.2		
29	22.8	20.1	17.4	14.8	12.2	9.6	7.1	4.6	2.1	
30	24.6	22.0	19.3	16.8	14.2	11.7	9.3	6.8	4.5	2.1
31	26.3	23.7	21.2	18.6	16.2	13.7	11.3	9.0	6.6	4.4
32	27.9	25.4	22.9	20.4	18.0	15.6	13.3	11.0	8.7	6.5
33	29.4	26.9	24.5	22.1	19.7	17.4	15.1	12.9	10.7	8.5
34	30.8	28.4	26.0	23.7	21.4	19.1	16.9	14.7	12.5	10.4
35	32.2	29.8	27.5	25.2	23.0	20.7	18.6	16.4	14.3	12.2
36	33.5	31.2	28.9	26.6	24.4	22.3	20.1	18.0	16.0	13.9
37	34.7	32.4	30.2	28.0	25.8	23.7	21.6	19.6	17.6	15.6
38	35.9	33.6	31.5	29.3	27.2	25.1	23.1	21.0	19.1	17.1
39	37.0	34.8	32.6	30.5	28.5	26.4	24.4	22.4	20.5	18.6
40	38.0	35.9	33.8	31.7	29.7	27.7	25.7	23.8	21.9	20.0
41	39.1	36.9	34.9	32.8	30.8	28.9	26.9	25.0	23.2	21.3
42	40.0	37.9	35.9	33.9	31.9	30.0	28.1	26.2	24.4	22.6
43	40.9	38.9	36.9	34.9	33.0	31.1	29.2	27.4	25.6	23.8
44	41.8	39.8	37.8	35.9	34.0	32.1	30.3	28.5	26.7	24.9
45	42.7	40.7	38.7	36.8	34.9	33.1	31.3	29.5	27.8	26.0
46	43.5	41.5	39.6	37.7	35.9	34.0	32.3	30.5	28.8	27.1
47	44.2	42.3	40.4	38.6	36.7	35.0	33.2	31.5	29.8	28.1
48	45.0	43.1	41.2	39.4	37.6	35.8	34.1	32.4	30.7	29.1
49	45.7	43.8	42.0	40.2	38.4	36.7	34.9	33.3	31.6	30.0
50	46.4	44.5	42.7	40.9	39.2	37.5	35.8	34.1	32.5	30.9
51	47.0	45.2	43.4	41.7	39.9	38.2	36.6	34.9	33.3	31.7
52	47.7	45.9	44.1	42.4	40.6	39.0	37.3	35.7	34.1	32.6
53	48.3	46.5	44.7	43.0	41.3	39.7	38.1	36.5	34.9	33.3
54	48.9	47.1	45.4	43.7	42.0	40.4	38.8	37.2	35.6	34.1
55	49.4	47.7	46.0	44.3	42.6	41.0	39.4	37.9	36.3	34.8
56	50.0	48.3	46.6	44.9	43.3	41.7	40.1	38.5	37.0	35.5
57	50.5	48.8	47.1	45.5	43.9	42.3	40.7	39.2	37.7	36.2

表 2a₁（续）

t＼t－t_w	11.5	12.0	12.5	13.5	13.5	14.0	14.5	15.0	15.5	16.0
58	51.0	49.3	47.7	46.1	44.4	42.9	41.3	39.8	38.3	36.9
59	51.5	49.9	48.2	46.6	45.0	43.5	41.9	40.4	38.9	37.5
60	52.0	50.4	48.7	47.1	45.6	44.0	42.5	41.0	39.5	38.1
61	52.5	50.8	49.2	47.6	46.1	44.5	43.0	41.6	40.1	38.7
62	52.9	51.3	49.7	48.1	46.6	45.1	43.6	42.1	40.7	39.3
63	53.4	51.8	50.2	48.6	47.1	45.6	44.1	42.7	41.2	39.8
64	53.8	52.2	50.6	49.1	47.6	46.1	44.6	43.2	41.8	40.4
65	54.2	52.6	51.1	49.5	48.0	46.6	45.1	43.7	42.3	40.9
66	54.6	53.0	51.5	50.0	48.5	47.0	45.6	44.2	42.8	41.4
67	55.0	53.5	51.9	50.4	48.9	47.5	46.0	44.6	43.3	41.9
68	55.4	53.8	52.3	50.8	49.4	47.9	46.5	45.1	43.7	42.4
69	55.8	54.2	52.7	51.2	49.8	48.3	46.9	45.5	44.2	42.9
70	56.1	54.6	53.1	51.6	50.2	48.8	47.4	46.0	44.6	43.3
71	56.5	55.0	53.5	52.0	50.6	49.2	47.8	46.4	45.1	43.8
72	56.8	55.3	53.9	52.4	51.0	49.6	48.2	46.8	45.5	44.2
73	57.2	55.7	54.2	52.8	51.3	49.9	48.6	47.2	45.9	44.6
74	57.5	56.0	54.6	53.1	51.7	50.3	49.0	47.6	46.3	45.0
75	57.8	56.4	54.9	53.5	52.1	50.7	49.3	48.0	46.7	45.4
76	58.2	56.7	55.2	53.8	52.4	51.1	49.7	48.4	47.1	45.8
77	58.5	57.0	55.6	54.2	52.8	51.4	50.1	48.8	47.5	46.2
78	58.8	57.3	55.9	54.5	53.1	51.8	50.4	49.1	47.8	46.6
79	59.1	57.6	56.2	54.8	53.4	52.1	50.8	49.5	48.2	46.9
80	59.4	57.9	56.5	55.1	53.8	52.4	51.1	49.8	48.6	47.3
81	59.6	58.2	56.8	55.4	54.1	52.8	51.5	50.2	48.9	47.7
82	59.9	58.5	57.1	55.7	54.4	53.1	51.8	50.5	49.2	48.0
83	60.2	58.8	57.4	56.0	54.7	53.4	52.1	50.8	49.6	48.4
84	60.5	59.1	57.7	56.3	55.0	53.7	52.4	51.2	49.9	48.7
85	60.7	59.3	58.0	56.6	55.3	54.0	52.7	51.5	50.2	49.0
86	61.0	59.6	58.3	56.9	55.6	54.3	53.0	51.8	50.6	49.3
87	61.3	59.9	58.5	57.2	55.9	54.6	53.3	52.1	50.9	49.7
88	61.5	60.1	58.8	57.5	56.2	54.9	53.6	52.4	51.2	50.0
89	61.8	60.4	59.1	57.7	56.4	55.2	53.9	52.7	51.5	50.3
90	62.0	60.7	59.3	58.0	56.7	55.4	54.2	53.0	51.8	50.6
91	62.3	60.9	59.6	58.3	57.0	55.7	54.5	53.3	52.1	50.9
92	62.5	61.1	59.8	58.5	57.3	56.0	54.8	53.5	52.3	51.2
93	62.7	61.4	60.1	58.8	57.5	56.3	55.0	53.8	52.6	51.5
94	63.0	61.6	60.3	59.0	57.8	56.5	55.3	54.1	52.9	51.7
95	63.2	61.9	60.6	59.3	58.0	56.8	55.6	54.4	53.2	52.0
96	63.4	62.1	60.8	59.5	58.3	57.0	55.8	54.6	53.5	52.3
97	63.6	62.3	61.0	59.8	58.5	57.3	56.1	54.9	53.7	52.6
98	63.8	62.5	61.3	60.0	58.8	57.5	56.3	55.2	54.0	52.8
99	64.1	62.8	61.5	60.2	59.0	57.8	56.6	55.4	54.2	53.1
100	64.3	63.0	61.7	60.5	59.2	58.0	56.8	55.7	54.5	53.4

表 2a$_2$ 柱状水银温度表相对湿度查算表

$$P = 110 \text{ kPa}, A = 0.815 \times 10^{-3} ℃^{-1}(0.4 \text{ m/s})$$

t ＼ $t-t_w$	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0
15	100.0	98.8	97.7	96.5	95.3	94.2	93.0	91.9	90.8	89.6	88.5
16	100.0	98.9	97.7	96.6	95.5	94.4	93.3	92.2	91.1	90.0	88.9
17	100.0	98.9	97.8	96.7	95.6	94.6	93.5	92.4	91.3	90.3	89.2
18	100.0	98.9	97.9	96.8	95.8	94.7	93.7	92.6	91.6	90.6	89.5
19	100.0	99.0	97.9	96.9	95.9	94.9	93.9	92.9	91.8	90.8	89.8
20	100.0	99.0	98.0	97.0	96.0	95.0	94.0	93.1	92.1	91.1	90.1
21	100.0	99.0	98.1	97.1	96.1	95.2	94.2	93.3	92.3	91.4	90.4
22	100.0	99.1	98.1	97.2	96.2	95.3	94.4	93.4	92.5	91.6	90.7
23	100.0	99.1	98.2	97.2	96.3	95.4	94.5	93.6	92.7	91.8	90.9
24	100.0	99.1	98.2	97.3	96.4	95.5	94.6	93.8	92.9	92.0	91.1
25	100.0	99.1	98.2	97.4	96.5	95.6	94.8	93.9	93.1	92.2	91.4
26	100.0	99.1	98.3	97.4	96.6	95.7	94.9	94.1	93.2	92.4	91.6
27	100.0	99.2	98.3	97.5	96.7	95.8	95.0	94.2	93.4	92.6	91.8
28	100.0	99.2	98.4	97.6	96.7	95.9	95.1	94.3	93.5	92.7	91.9
29	100.0	99.2	98.4	97.6	96.8	96.0	95.2	94.5	93.7	92.9	92.1
30	100.0	99.2	98.4	97.7	96.9	96.1	95.3	94.6	93.8	93.0	92.3
31	100.0	99.2	98.5	97.7	96.9	96.2	95.4	94.7	93.9	93.2	92.4
32	100.0	99.2	98.5	97.8	97.0	96.3	95.5	94.8	94.1	93.3	92.6
33	100.0	99.3	98.5	97.8	97.1	96.3	95.6	94.9	94.2	93.5	92.7
34	100.0	99.3	98.6	97.8	97.1	96.4	95.7	95.0	94.3	93.6	92.9
35	100.0	99.3	98.6	97.9	97.2	96.5	95.8	95.1	94.4	93.7	93.0
36	100.0	99.3	98.6	97.9	97.2	96.5	95.8	95.2	94.5	93.8	93.1
37	100.0	99.3	98.6	97.9	97.3	96.6	95.9	95.2	94.6	93.9	93.2
38	100.0	99.3	98.7	98.0	97.3	96.7	96.0	95.3	94.7	94.0	93.4
39	100.0	99.3	98.7	98.0	97.4	96.7	96.1	95.4	94.8	94.1	93.5
40	100.0	99.3	98.7	98.0	97.4	96.8	96.1	95.5	94.8	94.2	93.6
41	100.0	99.4	98.7	98.1	97.4	96.8	96.2	95.5	94.9	94.3	93.7
42	100.0	99.4	98.7	98.1	97.5	96.9	96.2	95.6	95.0	94.4	93.8
43	100.0	99.4	98.8	98.1	97.5	96.9	96.3	95.7	95.1	94.5	93.9
44	100.0	99.4	98.8	98.2	97.6	96.9	96.3	95.7	95.1	94.5	94.0
45	100.0	99.4	98.8	98.2	97.6	97.0	96.4	95.8	95.2	94.6	94.0
46	100.0	99.4	98.8	98.2	97.6	97.0	96.4	95.9	95.3	94.7	94.1
47	100.0	99.4	98.8	98.2	97.7	97.1	96.5	95.9	95.3	94.8	94.2
48	100.0	99.4	98.8	98.3	97.7	97.1	96.5	96.0	95.4	94.8	94.3
49	100.0	99.4	98.9	98.3	97.7	97.1	96.6	96.0	95.5	94.9	94.3
50	100.0	99.4	98.9	98.3	97.7	97.2	96.6	96.1	95.5	95.0	94.4
51	100.0	99.4	98.9	98.3	97.8	97.2	96.7	96.1	95.6	95.0	94.5
52	100.0	99.4	98.9	98.3	97.8	97.2	96.7	96.2	95.6	95.1	94.6
53	100.0	99.5	98.9	98.4	97.8	97.3	96.7	96.2	95.7	95.1	94.6
54	100.0	99.5	98.9	98.4	97.8	97.3	96.8	96.3	95.7	95.2	94.7
55	100.0	99.5	98.9	98.4	97.9	97.3	96.8	96.3	95.8	95.3	94.7
56	100.0	99.5	98.9	98.4	97.9	97.4	96.9	96.3	95.8	95.3	94.8
57	100.0	99.5	99.0	98.4	97.9	97.4	96.9	96.4	95.9	95.4	94.9

表 2a₂（续）

$t-t_w$ \ t	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0
58	100.0	99.5	99.0	98.5	97.9	97.4	96.9	96.4	95.9	95.4	94.9
59	100.0	99.5	99.0	98.5	98.0	97.5	97.0	96.5	96.0	95.5	95.0
60	100.0	99.5	99.0	98.5	98.0	97.5	97.0	96.5	96.0	95.5	95.0
61	100.0	99.5	99.0	98.5	98.0	97.5	97.0	96.5	96.0	95.5	95.1
62	100.0	99.5	99.0	98.5	98.0	97.5	97.0	96.6	96.1	95.6	95.1
63	100.0	99.5	99.0	98.5	98.0	97.6	97.1	96.6	96.1	95.6	95.2
64	100.0	99.5	99.0	98.5	98.1	97.6	97.1	96.6	96.2	95.7	95.2
65	100.0	99.5	99.0	98.6	98.1	97.6	97.1	96.7	96.2	95.7	95.3
66	100.0	99.5	99.0	98.6	98.1	97.6	97.2	96.7	96.2	95.8	95.3
67	100.0	99.5	99.1	98.6	98.1	97.7	97.2	96.7	96.3	95.8	95.3
68	100.0	99.5	99.1	98.6	98.1	97.7	97.2	96.8	96.3	95.8	95.4
69	100.0	99.5	99.1	98.6	98.2	97.7	97.2	96.8	96.3	95.9	95.4
70	100.0	99.5	99.1	98.6	98.2	97.7	97.3	96.8	96.4	95.9	95.5
71	100.0	99.5	99.1	98.6	98.2	97.7	97.3	96.8	96.4	95.9	95.5
72	100.0	99.5	99.1	98.6	98.2	97.8	97.3	96.9	96.4	96.0	95.5
73	100.0	99.6	99.1	98.7	98.2	97.8	97.3	96.9	96.5	96.0	95.6
74	100.0	99.6	99.1	98.7	98.2	97.8	97.4	96.9	96.5	96.1	95.6
75	100.0	99.6	99.1	98.7	98.2	97.8	97.4	96.9	96.5	96.1	95.7
76	100.0	99.6	99.1	98.7	98.3	97.8	97.4	97.0	96.5	96.1	95.7
77	100.0	99.6	99.1	98.7	98.3	97.8	97.4	97.0	96.6	96.1	95.7
78	100.0	99.6	99.1	98.7	98.3	97.9	97.4	97.0	96.6	96.2	95.8
79	100.0	99.6	99.1	98.7	98.3	97.9	97.5	97.0	96.6	96.2	95.8
80	100.0	99.6	99.2	98.7	98.3	97.9	97.5	97.1	96.7	96.2	95.8
81	100.0	99.6	99.2	98.7	98.3	97.9	97.5	97.1	96.7	96.3	95.9
82	100.0	99.6	99.2	98.8	98.3	97.9	97.5	97.1	96.7	96.3	95.9
83	100.0	99.6	99.2	98.8	98.4	97.9	97.5	97.1	96.7	96.3	95.9
84	100.0	99.6	99.2	98.8	98.4	98.0	97.6	97.2	96.8	96.4	96.0
85	100.0	99.6	99.2	98.8	98.4	98.0	97.6	97.2	96.8	96.4	96.0
86	100.0	99.6	99.2	98.8	98.4	98.0	97.6	97.2	96.8	96.4	96.0
87	100.0	99.6	99.2	98.8	98.4	98.0	97.6	97.2	96.8	96.4	96.0
88	100.0	99.6	99.2	98.8	98.4	98.0	97.6	97.2	96.9	96.5	96.1
89	100.0	99.6	99.2	98.8	98.4	98.0	97.6	97.3	96.9	96.5	96.1
90	100.0	99.6	99.2	98.8	98.4	98.1	97.7	97.3	96.9	96.5	96.1
91	100.0	99.6	99.2	98.8	98.5	98.1	97.7	97.3	96.9	96.5	96.2
92	100.0	99.6	99.2	98.8	98.5	98.1	97.7	97.3	96.9	96.6	96.2
93	100.0	99.6	99.2	98.9	98.5	98.1	97.7	97.3	97.0	96.6	96.2
94	100.0	99.6	99.2	98.9	98.5	98.1	97.7	97.4	97.0	96.6	96.2
95	100.0	99.6	99.2	98.9	98.5	98.1	97.7	97.4	97.0	96.6	96.3
96	100.0	99.6	99.3	98.9	98.5	98.1	97.8	97.4	97.0	96.7	96.3
97	100.0	99.6	99.3	98.9	98.5	98.1	97.8	97.4	97.0	96.7	96.3
98	100.0	99.6	99.3	98.9	98.5	98.2	97.8	97.4	97.1	96.7	96.3
99	100.0	99.6	99.3	98.9	98.5	98.2	97.8	97.4	97.1	96.7	96.4
100	100.0	99.6	99.3	98.9	98.5	98.2	97.8	97.5	97.1	96.8	96.4

表 2a₂（续）

$t-t_w$ / t	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0
15	87.3	86.2	85.1	84.0	82.8	81.7	80.6	79.5	78.4	77.3
16	87.8	86.7	85.6	84.5	83.4	82.3	81.3	80.2	79.1	78.0
17	88.1	87.1	86.0	85.0	83.9	82.9	81.8	80.8	79.8	78.7
18	88.5	87.5	86.5	85.4	84.4	83.4	82.4	81.4	80.4	79.4
19	88.8	87.9	86.9	85.9	84.9	83.9	82.9	82.0	81.0	80.0
20	89.2	88.2	87.2	86.3	85.3	84.4	83.4	82.5	81.5	80.6
21	89.5	88.5	87.6	86.7	85.7	84.8	83.9	83.0	82.0	81.1
22	89.8	88.8	87.9	87.0	86.1	85.2	84.3	83.4	82.5	81.6
23	90.0	89.1	88.2	87.4	86.5	85.6	84.7	83.9	83.0	82.1
24	90.3	89.4	88.5	87.7	86.8	86.0	85.1	84.3	83.4	82.6
25	90.5	89.7	88.8	88.0	87.2	86.3	85.5	84.7	83.8	83.0
26	90.7	89.9	89.1	88.3	87.5	86.6	85.8	85.0	84.2	83.4
27	91.0	90.1	89.3	88.5	87.8	87.0	86.2	85.4	84.6	83.8
28	91.2	90.4	89.6	88.8	88.0	87.3	86.5	85.7	84.9	84.2
29	91.3	90.6	89.8	89.0	88.3	87.5	86.8	86.0	85.3	84.5
30	91.5	90.8	90.0	89.3	88.5	87.8	87.1	86.3	85.6	84.9
31	91.7	91.0	90.2	89.5	88.8	88.0	87.3	86.6	85.9	85.2
32	91.9	91.1	90.4	89.7	89.0	88.3	87.6	86.9	86.2	85.5
33	92.0	91.3	90.6	89.9	89.2	88.5	87.8	87.1	86.4	85.7
34	92.2	91.5	90.8	90.1	89.4	88.7	88.0	87.4	86.7	86.0
35	92.3	91.6	91.0	90.3	89.6	88.9	88.3	87.6	86.9	86.3
36	92.5	91.8	91.1	90.5	89.8	89.1	88.5	87.8	87.2	86.5
37	92.6	91.9	91.3	90.6	90.0	89.3	88.7	88.0	87.4	86.7
38	92.7	92.1	91.4	90.8	90.1	89.5	88.9	88.2	87.6	87.0
39	92.8	92.2	91.6	90.9	90.3	89.7	89.0	88.4	87.8	87.2
40	92.9	92.3	91.7	91.1	90.5	89.8	89.2	88.6	88.0	87.4
41	93.1	92.4	91.8	91.2	90.6	90.0	89.4	88.8	88.2	87.6
42	93.2	92.6	91.9	91.3	90.7	90.1	89.5	89.0	88.4	87.8
43	93.3	92.7	92.1	91.5	90.9	90.3	89.7	89.1	88.5	87.9
44	93.4	92.8	92.2	91.6	91.0	90.4	89.8	89.3	88.7	88.1
45	93.5	92.9	92.3	91.7	91.1	90.6	90.0	89.4	88.9	88.3
46	93.5	93.0	92.4	91.8	91.3	90.7	90.1	89.6	89.0	88.4
47	93.6	93.1	92.5	91.9	91.4	90.8	90.3	89.7	89.2	88.6
48	93.7	93.2	92.6	92.0	91.5	90.9	90.4	89.8	89.3	88.8
49	93.8	93.2	92.7	92.1	91.6	91.1	90.5	90.0	89.4	88.9
50	93.9	93.3	92.8	92.2	91.7	91.2	90.6	90.1	89.6	89.0
51	93.9	93.4	92.9	92.3	91.8	91.3	90.7	90.2	89.7	89.2
52	94.0	93.5	93.0	92.4	91.9	91.4	90.9	90.3	89.8	89.3
53	94.1	93.6	93.0	92.5	92.0	91.5	91.0	90.4	89.9	89.4
54	94.2	93.6	93.1	92.6	92.1	91.6	91.1	90.6	90.1	89.5
55	94.2	93.7	93.2	92.7	92.2	91.7	91.2	90.7	90.2	89.7
56	94.3	93.8	93.3	92.8	92.3	91.8	91.3	90.8	90.3	89.8
57	94.3	93.8	93.3	92.8	92.3	91.9	91.4	90.9	90.4	89.9

表 2a₂（续）

t−tw / t	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0
58	94.4	93.9	93.4	92.9	92.4	91.9	91.4	91.0	90.5	90.0
59	94.5	94.0	93.5	93.0	92.5	92.0	91.5	91.1	90.6	90.1
60	94.5	94.0	93.6	93.1	92.6	92.1	91.6	91.1	90.7	90.2
61	94.6	94.1	93.6	93.1	92.7	92.2	91.7	91.2	90.8	90.3
62	94.6	94.2	93.7	93.2	92.7	92.3	91.8	91.3	90.9	90.4
63	94.7	94.2	93.7	93.3	92.8	92.3	91.9	91.4	90.9	90.5
64	94.7	94.3	93.8	93.3	92.9	92.4	92.0	91.5	91.0	90.6
65	94.8	94.3	93.9	93.4	92.9	92.5	92.0	91.6	91.1	90.7
66	94.8	94.4	93.9	93.5	93.0	92.6	92.1	91.7	91.2	90.8
67	94.9	94.4	94.0	93.5	93.1	92.6	92.2	91.7	91.3	90.8
68	94.9	94.5	94.0	93.6	93.1	92.7	92.2	91.8	91.4	90.9
69	95.0	94.5	94.1	93.6	93.2	92.8	92.3	91.9	91.4	91.0
70	95.0	94.6	94.1	93.7	93.3	92.8	92.4	91.9	91.5	91.1
71	95.1	94.6	94.2	93.8	93.3	92.9	92.4	92.0	91.6	91.2
72	95.1	94.7	94.2	93.8	93.4	92.9	92.5	92.1	91.7	91.2
73	95.1	94.7	94.3	93.9	93.4	93.0	92.6	92.2	91.7	91.3
74	95.2	94.8	94.3	93.9	93.5	93.1	92.6	92.2	91.8	91.4
75	95.2	94.8	94.4	94.0	93.5	93.1	92.7	92.3	91.9	91.5
76	95.3	94.8	94.4	94.0	93.6	93.2	92.8	92.3	91.9	91.5
77	95.3	94.9	94.5	94.1	93.6	93.2	92.8	92.4	92.0	91.6
78	95.3	94.9	94.5	94.1	93.7	93.3	92.9	92.5	92.1	91.7
79	95.4	95.0	94.6	94.2	93.7	93.3	92.9	92.5	92.1	91.7
80	95.4	95.0	94.6	94.2	93.8	93.4	93.0	92.6	92.2	91.8
81	95.5	95.1	94.6	94.2	93.8	93.4	93.0	92.6	92.3	91.9
82	95.5	95.1	94.7	94.3	93.9	93.5	93.1	92.7	92.3	91.9
83	95.5	95.1	94.7	94.3	93.9	93.5	93.2	92.8	92.4	92.0
84	95.6	95.2	94.8	94.4	94.0	93.6	93.2	92.8	92.4	92.0
85	95.6	95.2	94.8	94.4	94.0	93.6	93.3	92.9	92.5	92.1
86	95.6	95.2	94.8	94.5	94.1	93.7	93.3	92.9	92.5	92.2
87	95.7	95.3	94.9	94.5	94.1	93.7	93.4	93.0	92.6	92.2
88	95.7	95.3	94.9	94.5	94.2	93.8	93.4	93.0	92.6	92.3
89	95.7	95.3	95.0	94.6	94.2	93.8	93.4	93.1	92.7	92.3
90	95.8	95.4	95.0	94.6	94.2	93.9	93.5	93.1	92.8	92.4
91	95.8	95.4	95.0	94.7	94.3	93.9	93.5	93.2	92.8	92.4
92	95.8	95.4	95.1	94.7	94.3	94.0	93.6	93.2	92.9	92.5
93	95.8	95.5	95.1	94.7	94.4	94.0	93.6	93.3	92.9	92.5
94	95.9	95.5	95.1	94.8	94.4	94.0	93.7	93.3	93.0	92.6
95	95.9	95.5	95.2	94.8	94.4	94.1	93.7	93.4	93.0	92.6
96	95.9	95.6	95.2	94.8	94.5	94.1	93.8	93.4	93.1	92.7
97	96.0	95.6	95.2	94.9	94.5	94.2	93.8	93.5	93.1	92.7
98	96.0	95.6	95.3	94.9	94.6	94.2	93.8	93.5	93.1	92.8
99	96.0	95.7	95.3	94.9	94.6	94.2	93.9	93.5	93.2	92.8
100	96.0	95.7	95.3	95.0	94.6	94.3	93.9	93.6	93.2	92.9

表 2a₂（续）

t−tₘ / t	2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9	3.0
15	76.2	75.1	74.0	72.9	71.8	70.8	69.7	68.6	67.5	66.5
16	77.0	75.9	74.9	73.8	72.8	71.7	70.7	69.6	68.6	67.6
17	77.7	76.7	75.7	74.7	73.6	72.6	71.6	70.6	69.6	68.6
18	78.4	77.4	76.4	75.4	74.4	73.5	72.5	71.5	70.5	69.6
19	79.0	78.1	77.1	76.2	75.2	74.3	73.3	72.4	71.4	70.5
20	79.7	78.7	77.8	76.9	75.9	75.0	74.1	73.2	72.3	71.4
21	80.2	79.3	78.4	77.5	76.6	75.7	74.8	73.9	73.0	72.2
22	80.8	79.9	79.0	78.1	77.2	76.4	75.5	74.6	73.8	72.9
23	81.3	80.4	79.6	78.7	77.9	77.0	76.2	75.3	74.5	73.6
24	81.7	80.9	80.1	79.2	78.4	77.6	76.8	76.0	75.1	74.3
25	82.2	81.4	80.6	79.8	79.0	78.1	77.3	76.5	75.8	75.0
26	82.6	81.8	81.0	80.2	79.5	78.7	77.9	77.1	76.3	75.6
27	83.0	82.3	81.5	80.7	79.9	79.2	78.4	77.6	76.9	76.1
28	83.4	82.7	81.9	81.1	80.4	79.6	78.9	78.2	77.4	76.7
29	83.8	83.0	82.3	81.6	80.8	80.1	79.4	78.6	77.9	77.2
30	84.1	83.4	82.7	82.0	81.2	80.5	79.8	79.1	78.4	77.7
31	84.4	83.7	83.0	82.3	81.6	80.9	80.2	79.5	78.8	78.1
32	84.8	84.1	83.4	82.7	82.0	81.3	80.6	79.9	79.3	78.6
33	85.1	84.4	83.7	83.0	82.3	81.7	81.0	80.3	79.7	79.0
34	85.3	84.7	84.0	83.3	82.7	82.0	81.4	80.7	80.0	79.4
35	85.6	84.9	84.3	83.6	83.0	82.3	81.7	81.1	80.4	79.8
36	85.9	85.2	84.6	83.9	83.3	82.7	82.0	81.4	80.8	80.1
37	86.1	85.5	84.8	84.2	83.6	83.0	82.3	81.7	81.1	80.5
38	86.3	85.7	85.1	84.5	83.9	83.2	82.6	82.0	81.4	80.8
39	86.6	86.0	85.3	84.7	84.1	83.5	82.9	82.3	81.7	81.1
40	86.8	86.2	85.6	85.0	84.4	83.8	83.2	82.6	82.0	81.4
41	87.0	86.4	85.8	85.2	84.6	84.0	83.5	82.9	82.3	81.7
42	87.2	86.6	86.0	85.4	84.9	84.3	83.7	83.1	82.6	82.0
43	87.4	86.8	86.2	85.6	85.1	84.5	83.9	83.4	82.8	82.3
44	87.6	87.0	86.4	85.9	85.3	84.7	84.2	83.6	83.1	82.5
45	87.7	87.2	86.6	86.1	85.5	84.9	84.4	83.8	83.3	82.8
46	87.9	87.3	86.8	86.2	85.7	85.2	84.6	84.1	83.5	83.0
47	88.1	87.5	87.0	86.4	85.9	85.3	84.8	84.3	83.7	83.2
48	88.2	87.7	87.1	86.6	86.1	85.5	85.0	84.5	84.0	83.4
49	88.4	87.8	87.3	86.8	86.2	85.7	85.2	84.7	84.2	83.6
50	88.5	88.0	87.5	86.9	86.4	85.9	85.4	84.9	84.4	83.9
51	88.6	88.1	87.6	87.1	86.6	86.1	85.6	85.1	84.6	84.0
52	88.8	88.3	87.8	87.3	86.7	86.2	85.7	85.2	84.7	84.2
53	88.9	88.4	87.9	87.4	86.9	86.4	85.9	85.4	84.9	84.4
54	89.0	88.5	88.0	87.5	87.1	86.6	86.1	85.6	85.1	84.6
55	89.2	88.7	88.2	87.7	87.2	86.7	86.2	85.7	85.3	84.8
56	89.3	88.8	88.3	87.8	87.3	86.9	86.4	85.9	85.4	84.9
57	89.4	88.9	88.4	88.0	87.5	87.0	86.5	86.0	85.6	85.1

表 2a₂（续）

$t-t_w$ / t	2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9	3.0
58	89.5	89.0	88.6	88.1	87.6	87.1	86.7	86.2	85.7	85.3
59	89.6	89.1	88.7	88.2	87.7	87.3	86.8	86.3	85.9	85.4
60	89.7	89.3	88.8	88.3	87.9	87.4	86.9	86.5	86.0	85.6
61	89.8	89.4	88.9	88.4	88.0	87.5	87.1	86.6	86.2	85.7
62	89.9	89.5	89.0	88.6	88.1	87.6	87.2	86.7	86.3	85.8
63	90.0	89.6	89.1	88.7	88.2	87.8	87.3	86.9	86.4	86.0
64	90.1	89.7	89.2	88.8	88.3	87.9	87.4	87.0	86.6	86.1
65	90.2	89.8	89.3	88.9	88.4	88.0	87.6	87.1	86.7	86.2
66	90.3	89.9	89.4	89.0	88.5	88.1	87.7	87.2	86.8	86.4
67	90.4	90.0	89.5	89.1	88.7	88.2	87.8	87.4	86.9	86.5
68	90.5	90.1	89.6	89.2	88.8	88.3	87.9	87.5	87.0	86.6
69	90.6	90.1	89.7	89.3	88.9	88.4	88.0	87.6	87.2	86.7
70	90.7	90.2	89.8	89.4	89.0	88.5	88.1	87.7	87.3	86.9
71	90.7	90.3	89.9	89.5	89.0	88.6	88.2	87.8	87.4	87.0
72	90.8	90.4	90.0	89.6	89.1	88.7	88.3	87.9	87.5	87.1
73	90.9	90.5	90.1	89.6	89.2	88.8	88.4	88.0	87.6	87.2
74	91.0	90.6	90.1	89.7	89.3	88.9	88.5	88.1	87.7	87.3
75	91.0	90.6	90.2	89.8	89.4	89.0	88.6	88.2	87.8	87.4
76	91.1	90.7	90.3	89.9	89.5	89.1	88.7	88.3	87.9	87.5
77	91.2	90.8	90.4	90.0	89.6	89.2	88.8	88.4	88.0	87.6
78	91.3	90.9	90.5	90.1	89.7	89.3	88.9	88.5	88.1	87.7
79	91.3	90.9	90.5	90.1	89.7	89.4	89.0	88.6	88.2	87.8
80	91.4	91.0	90.6	90.2	89.8	89.4	89.0	88.7	88.3	87.9
81	91.5	91.1	90.7	90.3	89.9	89.5	89.1	88.7	88.4	88.0
82	91.5	91.1	90.8	90.4	90.0	89.6	89.2	88.8	88.5	88.1
83	91.6	91.2	90.8	90.4	90.1	89.7	89.3	88.9	88.5	88.2
84	91.7	91.3	90.9	90.5	90.1	89.8	89.4	89.0	88.6	88.2
85	91.7	91.3	91.0	90.6	90.2	89.8	89.5	89.1	88.7	88.3
86	91.8	91.4	91.0	90.6	90.3	89.9	89.5	89.2	88.8	88.4
87	91.8	91.5	91.1	90.7	90.3	90.0	89.6	89.2	88.9	88.5
88	91.9	91.5	91.2	90.8	90.4	90.0	89.7	89.3	89.0	88.6
89	92.0	91.6	91.2	90.9	90.5	90.1	89.8	89.4	89.0	88.7
90	92.0	91.6	91.3	90.9	90.6	90.2	89.8	89.5	89.1	88.7
91	92.1	91.7	91.3	91.0	90.6	90.3	89.9	89.5	89.2	88.8
92	92.1	91.8	91.4	91.0	90.7	90.3	90.0	89.6	89.3	88.9
93	92.2	91.8	91.5	91.1	90.7	90.4	90.0	89.7	89.3	89.0
94	92.2	91.9	91.5	91.2	90.8	90.5	90.1	89.8	89.4	89.1
95	92.3	91.9	91.6	91.2	90.9	90.5	90.2	89.8	89.5	89.1
96	92.3	92.0	91.6	91.3	90.9	90.6	90.2	89.9	89.6	89.2
97	92.4	92.0	91.7	91.3	91.0	90.7	90.3	90.0	89.6	89.3
98	92.4	92.1	91.8	91.4	91.1	90.7	90.4	90.0	89.7	89.4
99	92.5	92.2	91.8	91.5	91.1	90.8	90.4	90.1	89.8	89.4
100	92.5	92.2	91.9	91.5	91.2	90.8	90.5	90.2	89.8	89.5

表 2a₂（续）

$t-t_w$ / t	3.1	3.2	3.3	3.4	3.5	3.6	3.7	3.8	3.9	4.0
15	65.4	64.3	63.3	62.2	61.2	60.1	59.1	58.0	57.0	55.9
16	66.5	65.5	64.5	63.5	62.4	61.4	60.4	59.4	58.4	57.4
17	67.6	66.6	65.6	64.6	63.7	62.7	61.7	60.7	59.7	58.8
18	68.6	67.7	66.7	65.7	64.8	63.8	62.9	61.9	61.0	60.1
19	69.6	68.6	67.7	66.8	65.8	64.9	64.0	63.1	62.2	61.3
20	70.4	69.5	68.6	67.7	66.8	66.0	65.1	64.2	63.3	62.4
21	71.3	70.4	69.5	68.7	67.8	66.9	66.1	65.2	64.3	63.5
22	72.1	71.2	70.4	69.5	68.7	67.8	67.0	66.2	65.3	64.5
23	72.8	72.0	71.2	70.3	69.5	68.7	67.9	67.1	66.2	65.4
24	73.5	72.7	71.9	71.1	70.3	69.5	68.7	67.9	67.1	66.3
25	74.2	73.4	72.6	71.8	71.0	70.3	69.5	68.7	67.9	67.2
26	74.8	74.0	73.3	72.5	71.7	71.0	70.2	69.5	68.7	68.0
27	75.4	74.6	73.9	73.1	72.4	71.7	70.9	70.2	69.5	68.7
28	75.9	75.2	74.5	73.8	73.0	72.3	71.6	70.9	70.2	69.4
29	76.5	75.8	75.0	74.3	73.6	72.9	72.2	71.5	70.8	70.1
30	77.0	76.3	75.6	74.9	74.2	73.5	72.8	72.1	71.4	70.8
31	77.5	76.8	76.1	75.4	74.7	74.0	73.4	72.7	72.0	71.4
32	77.9	77.2	76.6	75.9	75.2	74.6	73.9	73.3	72.6	71.9
33	78.3	77.7	77.0	76.4	75.7	75.1	74.4	73.8	73.1	72.5
34	78.7	78.1	77.5	76.8	76.2	75.5	74.9	74.3	73.6	73.0
35	79.1	78.5	77.9	77.2	76.6	76.0	75.4	74.7	74.1	73.5
36	79.5	78.9	78.3	77.6	77.0	76.4	75.8	75.2	74.6	74.0
37	79.9	79.3	78.6	78.0	77.4	76.8	76.2	75.6	75.0	74.4
38	80.2	79.6	79.0	78.4	77.8	77.2	76.6	76.0	75.5	74.9
39	80.5	79.9	79.3	78.8	78.2	77.6	77.0	76.4	75.9	75.3
40	80.8	80.3	79.7	79.1	78.5	78.0	77.4	76.8	76.2	75.7
41	81.1	80.6	80.0	79.4	78.9	78.3	77.7	77.2	76.6	76.1
42	81.4	80.9	80.3	79.7	79.2	78.6	78.1	77.5	77.0	76.4
43	81.7	81.1	80.6	80.0	79.5	78.9	78.4	77.9	77.3	76.8
44	82.0	81.4	80.9	80.3	79.8	79.2	78.7	78.2	77.6	77.1
45	82.2	81.7	81.1	80.6	80.1	79.5	79.0	78.5	77.9	77.4
46	82.5	81.9	81.4	80.9	80.3	79.8	79.3	78.8	78.3	77.7
47	82.7	82.2	81.6	81.1	80.6	80.1	79.6	79.1	78.5	78.0
48	82.9	82.4	81.9	81.4	80.9	80.3	79.8	79.3	78.8	78.3
49	83.1	82.6	82.1	81.6	81.1	80.6	80.1	79.6	79.1	78.6
50	83.3	82.8	82.3	81.8	81.3	80.8	80.3	79.8	79.3	78.9
51	83.5	83.0	82.5	82.1	81.6	81.1	80.6	80.1	79.6	79.1
52	83.7	83.2	82.8	82.3	81.8	81.3	80.8	80.3	79.8	79.4
53	83.9	83.4	83.0	82.5	82.0	81.5	81.0	80.6	80.1	79.6
54	84.1	83.6	83.2	82.7	82.2	81.7	81.2	80.8	80.3	79.8
55	84.3	83.8	83.3	82.9	82.4	81.9	81.5	81.0	80.5	80.1
56	84.5	84.0	83.5	83.1	82.6	82.1	81.7	81.2	80.7	80.3
57	84.6	84.2	83.7	83.2	82.8	82.3	81.9	81.4	80.9	80.5

表 2a₂（续）

t－tᵥ / t	3.1	3.2	3.3	3.4	3.5	3.6	3.7	3.8	3.9	4.0
58	84.8	84.3	83.9	83.4	83.0	82.5	82.0	81.6	81.1	80.7
59	85.0	84.5	84.0	83.6	83.1	82.7	82.2	81.8	81.3	80.9
60	85.1	84.7	84.2	83.8	83.3	82.9	82.4	82.0	81.5	81.1
61	85.3	84.8	84.4	83.9	83.5	83.0	82.6	82.1	81.7	81.3
62	85.4	85.0	84.5	84.1	83.6	83.2	82.8	82.3	81.9	81.5
63	85.5	85.1	84.7	84.2	83.8	83.4	82.9	82.5	82.1	81.6
64	85.7	85.2	84.8	84.4	83.9	83.5	83.1	82.7	82.2	81.8
65	85.8	85.4	85.0	84.5	84.1	83.7	83.2	82.8	82.4	82.0
66	85.9	85.5	85.1	84.7	84.2	83.8	83.4	83.0	82.6	82.1
67	86.1	85.6	85.2	84.8	84.4	84.0	83.5	83.1	82.7	82.3
68	86.2	85.8	85.4	84.9	84.5	84.1	83.7	83.3	82.9	82.5
69	86.3	85.9	85.5	85.1	84.7	84.2	83.8	83.4	83.0	82.6
70	86.4	86.0	85.6	85.2	84.8	84.4	84.0	83.6	83.2	82.8
71	86.6	86.1	85.7	85.3	84.9	84.5	84.1	83.7	83.3	82.9
72	86.7	86.3	85.9	85.5	85.1	84.6	84.2	83.9	83.5	83.1
73	86.8	86.4	86.0	85.6	85.2	84.8	84.4	84.0	83.6	83.2
74	86.9	86.5	86.1	85.7	85.3	84.9	84.5	84.1	83.7	83.3
75	87.0	86.6	86.2	85.8	85.4	85.0	84.6	84.2	83.9	83.5
76	87.1	86.7	86.3	85.9	85.5	85.1	84.8	84.4	84.0	83.6
77	87.2	86.8	86.4	86.0	85.6	85.3	84.9	84.5	84.1	83.7
78	87.3	86.9	86.5	86.1	85.8	85.4	85.0	84.6	84.2	83.9
79	87.4	87.0	86.6	86.3	85.9	85.5	85.1	84.7	84.4	84.0
80	87.5	87.1	86.7	86.4	86.0	85.6	85.2	84.9	84.5	84.1
81	87.6	87.2	86.8	86.5	86.1	85.7	85.3	85.0	84.6	84.2
82	87.7	87.3	86.9	86.6	86.2	85.8	85.5	85.1	84.7	84.3
83	87.8	87.4	87.0	86.7	86.3	85.9	85.6	85.2	84.8	84.5
84	87.9	87.5	87.1	86.8	86.4	86.0	85.7	85.3	84.9	84.6
85	88.0	87.6	87.2	86.9	86.5	86.1	85.8	85.4	85.0	84.7
86	88.1	87.7	87.3	87.0	86.6	86.2	85.9	85.5	85.2	84.8
87	88.1	87.8	87.4	87.1	86.7	86.3	86.0	85.6	85.3	84.9
88	88.2	87.9	87.5	87.1	86.8	86.4	86.1	85.7	85.4	85.0
89	88.3	88.0	87.6	87.2	86.9	86.5	86.2	85.8	85.5	85.1
90	88.4	88.0	87.7	87.3	87.0	86.6	86.3	85.9	85.6	85.2
91	88.5	88.1	87.8	87.4	87.1	86.7	86.4	86.0	85.7	85.3
92	88.6	88.2	87.9	87.5	87.2	86.8	86.5	86.1	85.8	85.4
93	88.6	88.3	87.9	87.6	87.2	86.9	86.6	86.2	85.9	85.5
94	88.7	88.4	88.0	87.7	87.3	87.0	86.6	86.3	86.0	85.6
95	88.8	88.4	88.1	87.8	87.4	87.1	86.7	86.4	86.1	85.7
96	88.9	88.5	88.2	87.8	87.5	87.2	86.8	86.5	86.2	85.8
97	88.9	88.6	88.3	87.9	87.6	87.2	86.9	86.6	86.2	85.9
98	89.0	88.7	88.3	88.0	87.7	87.3	87.0	86.7	86.3	86.0
99	89.1	88.7	88.4	88.1	87.7	87.4	87.1	86.8	86.4	86.1
100	89.2	88.8	88.5	88.2	87.8	87.5	87.2	86.8	86.5	86.2

表 2a₂（续）

$t-t_w$ / t	4.1	4.2	4.3	4.4	4.5	4.6	4.7	4.8	4.9	5.0
15	54.9	53.9	52.8	51.8	50.8	49.8	48.7	47.7	46.7	45.7
16	56.4	55.4	54.4	53.4	52.4	51.4	50.5	49.5	48.5	47.5
17	57.8	56.8	55.9	54.9	54.0	53.0	52.1	51.1	50.2	49.2
18	59.1	58.2	57.3	56.3	55.4	54.5	53.6	52.7	51.7	50.8
19	60.4	59.5	58.6	57.7	56.8	55.9	55.0	54.1	53.2	52.3
20	61.5	60.7	59.8	58.9	58.0	57.2	56.3	55.5	54.6	53.7
21	62.6	61.8	60.9	60.1	59.2	58.4	57.6	56.7	55.9	55.1
22	63.7	62.8	62.0	61.2	60.4	59.6	58.7	57.9	57.1	56.3
23	64.6	63.8	63.0	62.2	61.4	60.6	59.8	59.1	58.3	57.5
24	65.5	64.8	64.0	63.2	62.4	61.7	60.9	60.1	59.4	58.6
25	66.4	65.6	64.9	64.1	63.4	62.6	61.9	61.1	60.4	59.6
26	67.2	66.5	65.7	65.0	64.3	63.5	62.8	62.1	61.4	60.6
27	68.0	67.3	66.6	65.8	65.1	64.4	63.7	63.0	62.3	61.6
28	68.7	68.0	67.3	66.6	65.9	65.2	64.5	63.8	63.1	62.4
29	69.4	68.7	68.0	67.4	66.7	66.0	65.3	64.6	64.0	63.3
30	70.1	69.4	68.7	68.1	67.4	66.7	66.1	65.4	64.7	64.1
31	70.7	70.0	69.4	68.7	68.1	67.4	66.8	66.1	65.5	64.8
32	71.3	70.6	70.0	69.4	68.7	68.1	67.4	66.8	66.2	65.5
33	71.9	71.2	70.6	70.0	69.3	68.7	68.1	67.5	66.8	66.2
34	72.4	71.8	71.1	70.5	69.9	69.3	68.7	68.1	67.5	66.9
35	72.9	72.3	71.7	71.1	70.5	69.9	69.3	68.7	68.1	67.5
36	73.4	72.8	72.2	71.6	71.0	70.4	69.8	69.2	68.6	68.1
37	73.8	73.3	72.7	72.1	71.5	70.9	70.3	69.8	69.2	68.6
38	74.3	73.7	73.1	72.6	72.0	71.4	70.8	70.3	69.7	69.2
39	74.7	74.1	73.6	73.0	72.4	71.9	71.3	70.8	70.2	69.7
40	75.1	74.6	74.0	73.4	72.9	72.3	71.8	71.2	70.7	70.1
41	75.5	75.0	74.4	73.9	73.3	72.8	72.2	71.7	71.1	70.6
42	75.9	75.3	74.8	74.3	73.7	73.2	72.6	72.1	71.6	71.1
43	76.2	75.7	75.2	74.6	74.1	73.6	73.1	72.5	72.0	71.5
44	76.6	76.0	75.5	75.0	74.5	74.0	73.4	72.9	72.4	71.9
45	76.9	76.4	75.9	75.3	74.8	74.3	73.8	73.3	72.8	72.3
46	77.2	76.7	76.2	75.7	75.2	74.7	74.2	73.7	73.2	72.7
47	77.5	77.0	76.5	76.0	75.5	75.0	74.5	74.0	73.5	73.0
48	77.8	77.3	76.8	76.3	75.8	75.3	74.8	74.4	73.9	73.4
49	78.1	77.6	77.1	76.6	76.1	75.6	75.2	74.7	74.2	73.7
50	78.4	77.9	77.4	76.9	76.4	76.0	75.5	75.0	74.5	74.0
51	78.6	78.2	77.7	77.2	76.7	76.2	75.8	75.3	74.8	74.4
52	78.9	78.4	77.9	77.5	77.0	76.5	76.1	75.6	75.1	74.7
53	79.1	78.7	78.2	77.7	77.3	76.8	76.3	75.9	75.4	75.0
54	79.4	78.9	78.4	78.0	77.5	77.1	76.6	76.1	75.7	75.2
55	79.6	79.1	78.7	78.2	77.8	77.3	76.9	76.4	76.0	75.5
56	79.8	79.4	78.9	78.5	78.0	77.6	77.1	76.7	76.2	75.8
57	80.0	79.6	79.1	78.7	78.2	77.8	77.4	76.9	76.5	76.0

表 2a₂（续）

$t-t_w$ / t	4.1	4.2	4.3	4.4	4.5	4.6	4.7	4.8	4.9	5.0
58	80.2	79.8	79.4	78.9	78.5	78.0	77.6	77.2	76.7	76.3
59	80.5	80.0	79.6	79.1	78.7	78.3	77.8	77.4	77.0	76.5
60	80.6	80.2	79.8	79.3	78.9	78.5	78.1	77.6	77.2	76.8
61	80.8	80.4	80.0	79.5	79.1	78.7	78.3	77.8	77.4	77.0
62	81.0	80.6	80.2	79.7	79.3	78.9	78.5	78.1	77.6	77.2
63	81.2	80.8	80.4	79.9	79.5	79.1	78.7	78.3	77.9	77.4
64	81.4	81.0	80.5	80.1	79.7	79.3	78.9	78.5	78.1	77.7
65	81.6	81.1	80.7	80.3	79.9	79.5	79.1	78.7	78.3	77.9
66	81.7	81.3	80.9	80.5	80.1	79.7	79.3	78.9	78.5	78.1
67	81.9	81.5	81.1	80.7	80.3	79.9	79.5	79.1	78.7	78.3
68	82.1	81.6	81.2	80.8	80.4	80.0	79.6	79.2	78.8	78.5
69	82.2	81.8	81.4	81.0	80.6	80.2	79.8	79.4	79.0	78.6
70	82.4	82.0	81.6	81.2	80.8	80.4	80.0	79.6	79.2	78.8
71	82.5	82.1	81.7	81.3	80.9	80.5	80.2	79.8	79.4	79.0
72	82.7	82.3	81.9	81.5	81.1	80.7	80.3	79.9	79.6	79.2
73	82.8	82.4	82.0	81.6	81.3	80.9	80.5	80.1	79.7	79.3
74	82.9	82.6	82.2	81.8	81.4	81.0	80.6	80.3	79.9	79.5
75	83.1	82.7	82.3	81.9	81.6	81.2	80.8	80.4	80.1	79.7
76	83.2	82.8	82.5	82.1	81.7	81.3	81.0	80.6	80.2	79.8
77	83.4	83.0	82.6	82.2	81.8	81.5	81.1	80.7	80.4	80.0
78	83.5	83.1	82.7	82.4	82.0	81.6	81.3	80.9	80.5	80.2
79	83.6	83.2	82.9	82.5	82.1	81.8	81.4	81.0	80.7	80.3
80	83.7	83.4	83.0	82.6	82.3	81.9	81.5	81.2	80.8	80.5
81	83.9	83.5	83.1	82.8	82.4	82.0	81.7	81.3	81.0	80.6
82	84.0	83.6	83.3	82.9	82.5	82.2	81.8	81.5	81.1	80.7
83	84.1	83.7	83.4	83.0	82.7	82.3	81.9	81.6	81.2	80.9
84	84.2	83.9	83.5	83.1	82.8	82.4	82.1	81.7	81.4	81.0
85	84.3	84.0	83.6	83.3	82.9	82.6	82.2	81.9	81.5	81.2
86	84.4	84.1	83.7	83.4	83.0	82.7	82.3	82.0	81.6	81.3
87	84.6	84.2	83.9	83.5	83.2	82.8	82.5	82.1	81.8	81.4
88	84.7	84.3	84.0	83.6	83.3	82.9	82.6	82.2	81.9	81.6
89	84.8	84.4	84.1	83.7	83.4	83.0	82.7	82.4	82.0	81.7
90	84.9	84.5	84.2	83.8	83.5	83.2	82.8	82.5	82.1	81.8
91	85.0	84.6	84.3	84.0	83.6	83.3	82.9	82.6	82.3	81.9
92	85.1	84.7	84.4	84.1	83.7	83.4	83.1	82.7	82.4	82.1
93	85.2	84.9	84.5	84.2	83.8	83.5	83.2	82.8	82.5	82.2
94	85.3	85.0	84.6	84.3	83.9	83.6	83.3	83.0	82.6	82.3
95	85.4	85.1	84.7	84.4	84.1	83.7	83.4	83.1	82.7	82.4
96	85.5	85.2	84.8	84.5	84.2	83.8	83.5	83.2	82.9	82.5
97	85.6	85.3	84.9	84.6	84.3	83.9	83.6	83.3	83.0	82.6
98	85.7	85.3	85.0	84.7	84.4	84.0	83.7	83.4	83.1	82.8
99	85.8	85.4	85.1	84.8	84.5	84.1	83.8	83.5	83.2	82.9
100	85.9	85.5	85.2	84.9	84.6	84.3	83.9	83.6	83.3	83.0

表 2a$_2$（续）

$t-t_w$ / t	5.2	5.4	5.6	5.8	6.0	6.2	6.4	6.6	6.8	7.0
15	43.7	41.7	39.7	37.7	35.8	33.8	31.9	29.9	28.0	26.1
16	45.6	43.7	41.7	39.8	37.9	36.0	34.2	32.3	30.4	28.6
17	47.4	45.5	43.6	41.8	40.0	38.1	36.3	34.5	32.7	31.0
18	49.0	47.2	45.4	43.6	41.9	40.1	38.4	36.6	34.9	33.2
19	50.6	48.8	47.1	45.4	43.7	42.0	40.3	38.6	36.9	35.2
20	52.0	50.3	48.7	47.0	45.3	43.7	42.0	40.4	38.8	37.2
21	53.4	51.8	50.1	48.5	46.9	45.3	43.7	42.1	40.6	39.0
22	54.7	53.1	51.5	50.0	48.4	46.9	45.3	43.8	42.3	40.7
23	55.9	54.4	52.8	51.3	49.8	48.3	46.8	45.3	43.8	42.4
24	57.1	55.6	54.1	52.6	51.1	49.7	48.2	46.8	45.3	43.9
25	58.2	56.7	55.2	53.8	52.4	50.9	49.5	48.1	46.7	45.3
26	59.2	57.8	56.3	54.9	53.5	52.1	50.8	49.4	48.0	46.7
27	60.2	58.8	57.4	56.0	54.6	53.3	51.9	50.6	49.3	48.0
28	61.1	59.7	58.4	57.0	55.7	54.4	53.1	51.8	50.5	49.2
29	61.9	60.6	59.3	58.0	56.7	55.4	54.1	52.8	51.6	50.3
30	62.8	61.5	60.2	58.9	57.6	56.4	55.1	53.9	52.6	51.4
31	63.5	62.3	61.0	59.8	58.5	57.3	56.1	54.8	53.6	52.4
32	64.3	63.0	61.8	60.6	59.4	58.2	57.0	55.8	54.6	53.4
33	65.0	63.8	62.6	61.4	60.2	59.0	57.8	56.6	55.5	54.3
34	65.7	64.5	63.3	62.1	60.9	59.8	58.6	57.5	56.3	55.2
35	66.3	65.1	64.0	62.8	61.7	60.5	59.4	58.3	57.2	56.0
36	66.9	65.8	64.6	63.5	62.4	61.2	60.1	59.0	57.9	56.8
37	67.5	66.4	65.2	64.1	63.0	61.9	60.8	59.7	58.7	57.6
38	68.0	66.9	65.8	64.7	63.6	62.6	61.5	60.4	59.4	58.3
39	68.6	67.5	66.4	65.3	64.2	63.2	62.1	61.1	60.0	59.0
40	69.1	68.0	66.9	65.9	64.8	63.8	62.7	61.7	60.7	59.7
41	69.5	68.5	67.4	66.4	65.4	64.3	63.3	62.3	61.3	60.3
42	70.0	69.0	67.9	66.9	65.9	64.9	63.9	62.9	61.9	60.9
43	70.5	69.4	68.4	67.4	66.4	65.4	64.4	63.4	62.5	61.5
44	70.9	69.9	68.9	67.9	66.9	65.9	64.9	64.0	63.0	62.0
45	71.3	70.3	69.3	68.3	67.3	66.4	65.4	64.5	63.5	62.6
46	71.7	70.7	69.7	68.8	67.8	66.8	65.9	65.0	64.0	63.1
47	72.1	71.1	70.1	69.2	68.2	67.3	66.3	65.4	64.5	63.6
48	72.4	71.5	70.5	69.6	68.6	67.7	66.8	65.9	65.0	64.1
49	72.8	71.8	70.9	70.0	69.0	68.1	67.2	66.3	65.4	64.5
50	73.1	72.2	71.2	70.3	69.4	68.5	67.6	66.7	65.8	65.0
51	73.4	72.5	71.6	70.7	69.8	68.9	68.0	67.1	66.2	65.4
52	73.7	72.8	71.9	71.0	70.1	69.3	68.4	67.5	66.6	65.8
53	74.1	73.1	72.3	71.4	70.5	69.6	68.7	67.9	67.0	66.2
54	74.3	73.5	72.6	71.7	70.8	70.0	69.1	68.2	67.4	66.6
55	74.6	73.7	72.9	72.0	71.1	70.3	69.4	68.6	67.8	66.9
56	74.9	74.0	73.2	72.3	71.5	70.6	69.8	68.9	68.1	67.3
57	75.2	74.3	73.5	72.6	71.8	70.9	70.1	69.3	68.4	67.6

表 2a₂（续）

$t-t_w$ / t	5.2	5.4	5.6	5.8	6.0	6.2	6.4	6.6	6.8	7.0
58	75.4	74.6	73.7	72.9	72.1	71.2	70.4	69.6	68.8	68.0
59	75.7	74.8	74.0	73.2	72.3	71.5	70.7	69.9	69.1	68.3
60	75.9	75.1	74.3	73.4	72.6	71.8	71.0	70.2	69.4	68.6
61	76.2	75.3	74.5	73.7	72.9	72.1	71.3	70.5	69.7	68.9
62	76.4	75.6	74.8	73.9	73.1	72.3	71.6	70.8	70.0	69.2
63	76.6	75.8	75.0	74.2	73.4	72.6	71.8	71.0	70.3	69.5
64	76.8	76.0	75.2	74.4	73.6	72.9	72.1	71.3	70.5	69.8
65	77.1	76.3	75.5	74.7	73.9	73.1	72.3	71.6	70.8	70.1
66	77.3	76.5	75.7	74.9	74.1	73.4	72.6	71.8	71.1	70.3
67	77.5	76.7	75.9	75.1	74.4	73.6	72.8	72.1	71.3	70.6
68	77.7	76.9	76.1	75.3	74.6	73.8	73.1	72.3	71.6	70.8
69	77.9	77.1	76.3	75.6	74.8	74.0	73.3	72.6	71.8	71.1
70	78.0	77.3	76.5	75.8	75.0	74.3	73.5	72.8	72.1	71.3
71	78.2	77.5	76.7	76.0	75.2	74.5	73.7	73.0	72.3	71.6
72	78.4	77.7	76.9	76.2	75.4	74.7	74.0	73.2	72.5	71.8
73	78.6	77.8	77.1	76.4	75.6	74.9	74.2	73.5	72.7	72.0
74	78.8	78.0	77.3	76.5	75.8	75.1	74.4	73.7	73.0	72.3
75	78.9	78.2	77.5	76.7	76.0	75.3	74.6	73.9	73.2	72.5
76	79.1	78.4	77.6	76.9	76.2	75.5	74.8	74.1	73.4	72.7
77	79.3	78.5	77.8	77.1	76.4	75.7	75.0	74.3	73.6	72.9
78	79.4	78.7	78.0	77.3	76.6	75.9	75.2	74.5	73.8	73.1
79	79.6	78.9	78.2	77.4	76.7	76.0	75.4	74.7	74.0	73.3
80	79.7	79.0	78.3	77.6	76.9	76.2	75.5	74.9	74.2	73.5
81	79.9	79.2	78.5	77.8	77.1	76.4	75.7	75.0	74.4	73.7
82	80.0	79.3	78.6	77.9	77.3	76.6	75.9	75.2	74.5	73.9
83	80.2	79.5	78.8	78.1	77.4	76.7	76.1	75.4	74.7	74.1
84	80.3	79.6	78.9	78.3	77.6	76.9	76.2	75.6	74.9	74.3
85	80.5	79.8	79.1	78.4	77.7	77.1	76.4	75.7	75.1	74.4
86	80.6	79.9	79.2	78.6	77.9	77.2	76.6	75.9	75.3	74.6
87	80.7	80.1	79.4	78.7	78.1	77.4	76.7	76.1	75.4	74.8
88	80.9	80.2	79.5	78.9	78.2	77.5	76.9	76.2	75.6	75.0
89	81.0	80.3	79.7	79.0	78.4	77.7	77.1	76.4	75.8	75.1
90	81.1	80.5	79.8	79.2	78.5	77.9	77.2	76.6	75.9	75.3
91	81.3	80.6	80.0	79.3	78.6	78.0	77.4	76.7	76.1	75.5
92	81.4	80.7	80.1	79.4	78.8	78.2	77.5	76.9	76.3	75.6
93	81.5	80.9	80.2	79.6	78.9	78.3	77.7	77.0	76.4	75.8
94	81.6	81.0	80.4	79.7	79.1	78.4	77.8	77.2	76.6	75.9
95	81.8	81.1	80.5	79.8	79.2	78.6	78.0	77.3	76.7	76.1
96	81.9	81.2	80.6	80.0	79.3	78.7	78.1	77.5	76.9	76.3
97	82.0	81.4	80.7	80.1	79.5	78.9	78.2	77.6	77.0	76.4
98	82.1	81.5	80.9	80.2	79.6	79.0	78.4	77.8	77.2	76.6
99	82.2	81.6	81.0	80.4	79.7	79.1	78.5	77.9	77.3	76.7
100	82.4	81.7	81.1	80.5	79.9	79.3	78.6	78.0	77.4	76.8

表 2a₂（续）

$t-t_w$ / t	7.2	7.4	7.6	7.8	8.0	8.2	8.4	8.6	8.8	9.0
15	24.2	22.3	20.4	18.5	16.7	14.8	13.0	11.1	9.3	7.5
16	26.8	24.9	23.1	21.3	19.5	17.7	16.0	14.2	12.4	10.7
17	29.2	27.4	25.7	23.9	22.2	20.5	18.8	17.1	15.4	13.7
18	31.5	29.8	28.1	26.4	24.7	23.1	21.4	19.8	18.1	16.5
19	33.6	31.9	30.3	28.7	27.1	25.5	23.9	22.3	20.7	19.1
20	35.6	34.0	32.4	30.8	29.3	27.7	26.2	24.6	23.1	21.6
21	37.5	35.9	34.4	32.9	31.4	29.9	28.4	26.9	25.4	23.9
22	39.2	37.7	36.3	34.8	33.3	31.9	30.4	29.0	27.5	26.1
23	40.9	39.4	38.0	36.6	35.1	33.7	32.3	30.9	29.5	28.2
24	42.5	41.1	39.7	38.3	36.9	35.5	34.1	32.8	31.4	30.1
25	43.9	42.6	41.2	39.8	38.5	37.2	35.8	34.5	33.2	31.9
26	45.3	44.0	42.7	41.4	40.0	38.7	37.4	36.2	34.9	33.6
27	46.6	45.3	44.1	42.8	41.5	40.2	39.0	37.7	36.5	35.2
28	47.9	46.6	45.4	44.1	42.9	41.6	40.4	39.2	38.0	36.8
29	49.1	47.8	46.6	45.4	44.2	43.0	41.8	40.6	39.4	38.2
30	50.2	49.0	47.8	46.6	45.4	44.2	43.0	41.9	40.7	39.6
31	51.2	50.1	48.9	47.7	46.5	45.4	44.3	43.1	42.0	40.9
32	52.2	51.1	49.9	48.8	47.7	46.5	45.4	44.3	43.2	42.1
33	53.2	52.1	50.9	49.8	48.7	47.6	46.5	45.4	44.3	43.3
34	54.1	53.0	51.9	50.8	49.7	48.6	47.5	46.5	45.4	44.4
35	54.9	53.9	52.8	51.7	50.6	49.6	48.5	47.5	46.4	45.4
36	55.8	54.7	53.6	52.6	51.5	50.5	49.5	48.4	47.4	46.4
37	56.5	55.5	54.5	53.4	52.4	51.4	50.4	49.4	48.4	47.4
38	57.3	56.3	55.2	54.2	53.2	52.2	51.2	50.2	49.2	48.3
39	58.0	57.0	56.0	55.0	54.0	53.0	52.0	51.1	50.1	49.1
40	58.7	57.7	56.7	55.7	54.7	53.8	52.8	51.8	50.9	50.0
41	59.3	58.3	57.4	56.4	55.4	54.5	53.5	52.6	51.7	50.7
42	59.9	59.0	58.0	57.1	56.1	55.2	54.3	53.3	52.4	51.5
43	60.5	59.6	58.6	57.7	56.8	55.8	54.9	54.0	53.1	52.2
44	61.1	60.2	59.2	58.3	57.4	56.5	55.6	54.7	53.8	52.9
45	61.7	60.7	59.8	58.9	58.0	57.1	56.2	55.3	54.4	53.6
46	62.2	61.3	60.4	59.5	58.6	57.7	56.8	55.9	55.1	54.2
47	62.7	61.8	60.9	60.0	59.1	58.2	57.4	56.5	55.7	54.8
48	63.2	62.3	61.4	60.5	59.6	58.8	57.9	57.1	56.2	55.4
49	63.6	62.8	61.9	61.0	60.2	59.3	58.5	57.6	56.8	56.0
50	64.1	63.2	62.4	61.5	60.7	59.8	59.0	58.1	57.3	56.5
51	64.5	63.7	62.8	62.0	61.1	60.3	59.5	58.7	57.8	57.0
52	64.9	64.1	63.2	62.4	61.6	60.8	59.9	59.1	58.3	57.5
53	65.3	64.5	63.7	62.8	62.0	61.2	60.4	59.6	58.8	58.0
54	65.7	64.9	64.1	63.3	62.5	61.6	60.9	60.1	59.3	58.5
55	66.1	65.3	64.5	63.7	62.9	62.1	61.3	60.5	59.7	59.0
56	66.5	65.7	64.9	64.1	63.3	62.5	61.7	60.9	60.2	59.4
57	66.8	66.0	65.2	64.4	63.6	62.9	62.1	61.3	60.6	59.8

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表 2a₂（续）

$t-t_w$ t	7.2	7.4	7.6	7.8	8.0	8.2	8.4	8.6	8.8	9.0
58	67.2	66.4	65.6	64.8	64.0	63.3	62.5	61.7	61.0	60.2
59	67.5	66.7	65.9	65.2	64.4	63.6	62.9	62.1	61.4	60.6
60	67.8	67.0	66.3	65.5	64.7	64.0	63.2	62.5	61.7	61.0
61	68.1	67.4	66.6	65.8	65.1	64.3	63.6	62.9	62.1	61.4
62	68.4	67.7	66.9	66.2	65.4	64.7	63.9	63.2	62.5	61.8
63	68.7	68.0	67.2	66.5	65.7	65.0	64.3	63.5	62.8	62.1
64	69.0	68.3	67.5	66.8	66.1	65.3	64.6	63.9	63.2	62.5
65	69.3	68.6	67.8	67.1	66.4	65.6	64.9	64.2	63.5	62.8
66	69.6	68.8	68.1	67.4	66.7	65.9	65.2	64.5	63.8	63.1
67	69.8	69.1	68.4	67.7	67.0	66.2	65.5	64.8	64.1	63.4
68	70.1	69.4	68.7	67.9	67.2	66.5	65.8	65.1	64.4	63.8
69	70.4	69.6	68.9	68.2	67.5	66.8	66.1	65.4	64.7	64.1
70	70.6	69.9	69.2	68.5	67.8	67.1	66.4	65.7	65.0	64.4
71	70.9	70.1	69.4	68.7	68.0	67.4	66.7	66.0	65.3	64.6
72	71.1	70.4	69.7	69.0	68.3	67.6	66.9	66.3	65.6	64.9
73	71.3	70.6	69.9	69.2	68.6	67.9	67.2	66.5	65.9	65.2
74	71.6	70.9	70.2	69.5	68.8	68.1	67.5	66.8	66.1	65.5
75	71.8	71.1	70.4	69.7	69.1	68.4	67.7	67.1	66.4	65.7
76	72.0	71.3	70.6	70.0	69.3	68.6	68.0	67.3	66.7	66.0
77	72.2	71.5	70.9	70.2	69.5	68.9	68.2	67.6	66.9	66.3
78	72.4	71.7	71.1	70.4	69.7	69.1	68.4	67.8	67.2	66.5
79	72.6	72.0	71.3	70.6	70.0	69.3	68.7	68.0	67.4	66.8
80	72.8	72.2	71.5	70.8	70.2	69.5	68.9	68.3	67.6	67.0
81	73.0	72.4	71.7	71.1	70.4	69.8	69.1	68.5	67.9	67.2
82	73.2	72.6	71.9	71.3	70.6	70.0	69.3	68.7	68.1	67.5
83	73.4	72.8	72.1	71.5	70.8	70.2	69.6	68.9	68.3	67.7
84	73.6	73.0	72.3	71.7	71.0	70.4	69.8	69.2	68.5	67.9
85	73.8	73.1	72.5	71.9	71.2	70.6	70.0	69.4	68.8	68.1
86	74.0	73.3	72.7	72.1	71.4	70.8	70.2	69.6	69.0	68.4
87	74.1	73.5	72.9	72.3	71.6	71.0	70.4	69.8	69.2	68.6
88	74.3	73.7	73.1	72.4	71.8	71.2	70.6	70.0	69.4	68.8
89	74.5	73.9	73.2	72.6	72.0	71.4	70.8	70.2	69.6	69.0
90	74.7	74.0	73.4	72.8	72.2	71.6	71.0	70.4	69.8	69.2
91	74.8	74.2	73.6	73.0	72.4	71.8	71.2	70.6	70.0	69.4
92	75.0	74.4	73.8	73.2	72.6	72.0	71.4	70.8	70.2	69.6
93	75.2	74.6	73.9	73.3	72.7	72.1	71.5	71.0	70.4	69.8
94	75.3	74.7	74.1	73.5	72.9	72.3	71.7	71.1	70.6	70.0
95	75.5	74.9	74.3	73.7	73.1	72.5	71.9	71.3	70.7	70.2
96	75.6	75.0	74.4	73.8	73.3	72.7	72.1	71.5	70.9	70.3
97	75.8	75.2	74.6	74.0	73.4	72.8	72.3	71.7	71.1	70.5
98	76.0	75.4	74.8	74.2	73.6	73.0	72.4	71.9	71.3	70.7
99	76.1	75.5	74.9	74.3	73.8	73.2	72.6	72.0	71.5	70.9
100	76.3	75.7	75.1	74.5	73.9	73.3	72.8	72.2	71.6	71.1

表 2a₂（续）

表 2a₂（续）

t∖t−t_w	9.2	9.4	9.6	9.8	10.0	10.2	10.4	10.6	10.8	11.0
15	5.7	3.9	2.1	0.3						
16	9.0	7.2	5.5	3.8	2.1	0.4				
17	12.0	10.4	8.7	7.0	5.4	3.8	2.2	0.5		
18	14.9	13.3	11.7	10.1	8.5	6.9	5.4	3.8	2.3	0.7
19	17.6	16.0	14.5	12.9	11.4	9.9	8.4	6.9	5.4	3.9
20	20.1	18.6	17.1	15.6	14.1	12.7	11.2	9.8	8.3	6.9
21	22.5	21.0	19.6	18.1	16.7	15.3	13.9	12.5	11.1	9.7
22	24.7	23.3	21.9	20.5	19.1	17.7	16.4	15.0	13.7	12.3
23	26.8	25.4	24.1	22.7	21.4	20.0	18.7	17.4	16.1	14.8
24	28.8	27.4	26.1	24.8	23.5	22.2	20.9	19.6	18.4	17.1
25	30.6	29.3	28.0	26.8	25.5	24.2	23.0	21.8	20.5	19.3
26	32.4	31.1	29.9	28.6	27.4	26.2	25.0	23.8	22.6	21.4
27	34.0	32.8	31.6	30.4	29.2	28.0	26.8	25.6	24.5	23.3
28	35.6	34.4	33.2	32.0	30.9	29.7	28.6	27.4	26.3	25.1
29	37.0	35.9	34.7	33.6	32.4	31.3	30.2	29.1	28.0	26.9
30	38.4	37.3	36.2	35.1	34.0	32.9	31.8	30.7	29.6	28.5
31	39.8	38.6	37.6	36.5	35.4	34.3	33.2	32.2	31.1	30.1
32	41.0	39.9	38.9	37.8	36.7	35.7	34.6	33.6	32.6	31.5
33	42.2	41.1	40.1	39.0	38.0	37.0	36.0	34.9	33.9	32.9
34	43.3	42.3	41.3	40.2	39.2	38.2	37.2	36.2	35.2	34.3
35	44.4	43.4	42.4	41.4	40.4	39.4	38.4	37.4	36.5	35.5
36	45.4	44.4	43.4	42.4	41.5	40.5	39.5	38.6	37.6	36.7
37	46.4	45.4	44.4	43.5	42.5	41.6	40.6	39.7	38.8	37.8
38	47.3	46.3	45.4	44.4	43.5	42.6	41.6	40.7	39.8	38.9
39	48.2	47.2	46.3	45.4	44.5	43.5	42.6	41.7	40.8	39.9
40	49.0	48.1	47.2	46.3	45.4	44.5	43.6	42.7	41.8	40.9
41	49.8	48.9	48.0	47.1	46.2	45.3	44.5	43.6	42.7	41.9
42	50.6	49.7	48.8	47.9	47.0	46.2	45.3	44.5	43.6	42.8
43	51.3	50.4	49.6	48.7	47.8	47.0	46.1	45.3	44.4	43.6
44	52.0	51.2	50.3	49.4	48.6	47.7	46.9	46.1	45.2	44.4
45	52.7	51.9	51.0	50.2	49.3	48.5	47.7	46.8	46.0	45.2
46	53.4	52.5	51.7	50.8	50.0	49.2	48.4	47.6	46.8	46.0
47	54.0	53.1	52.3	51.5	50.7	49.9	49.1	48.3	47.5	46.7
48	54.6	53.8	52.9	52.1	51.3	50.5	49.7	48.9	48.2	47.4
49	55.1	54.3	53.5	52.7	51.9	51.1	50.4	49.6	48.8	48.0
50	55.7	54.9	54.1	53.3	52.5	51.7	51.0	50.2	49.4	48.7
51	56.2	55.4	54.7	53.9	53.1	52.3	51.6	50.8	50.0	49.3
52	56.7	56.0	55.2	54.4	53.6	52.9	52.1	51.4	50.6	49.9
53	57.2	56.5	55.7	54.9	54.2	53.4	52.7	51.9	51.2	50.5
54	57.7	57.0	56.2	55.4	54.7	53.9	53.2	52.5	51.7	51.0
55	58.2	57.4	56.7	55.9	55.2	54.4	53.7	53.0	52.3	51.5
56	58.6	57.9	57.1	56.4	55.7	54.9	54.2	53.5	52.8	52.1
57	59.1	58.3	57.6	56.8	56.1	55.4	54.7	54.0	53.3	52.6

表 2a$_2$（续）

$t-t_w$ / t	9.2	9.4	9.6	9.8	10.0	10.2	10.4	10.6	10.8	11.0
58	59.5	58.7	58.0	57.3	56.6	55.9	55.1	54.4	53.7	53.0
59	59.9	59.2	58.4	57.7	57.0	56.3	55.6	54.9	54.2	53.5
60	60.3	59.6	58.8	58.1	57.4	56.7	56.0	55.3	54.6	54.0
61	60.7	60.0	59.2	58.5	57.8	57.1	56.4	55.8	55.1	54.4
62	61.0	60.3	59.6	58.9	58.2	57.5	56.9	56.2	55.5	54.8
63	61.4	60.7	60.0	59.3	58.6	57.9	57.3	56.6	55.9	55.3
64	61.8	61.1	60.4	59.7	59.0	58.3	57.6	57.0	56.3	55.7
65	62.1	61.4	60.7	60.0	59.4	58.7	58.0	57.4	56.7	56.0
66	62.4	61.7	61.1	60.4	59.7	59.0	58.4	57.7	57.1	56.4
67	62.8	62.1	61.4	60.7	60.1	59.4	58.7	58.1	57.4	56.8
68	63.1	62.4	61.7	61.1	60.4	59.7	59.1	58.4	57.8	57.2
69	63.4	62.7	62.0	61.4	60.7	60.1	59.4	58.8	58.2	57.5
70	63.7	63.0	62.4	61.7	61.1	60.4	59.8	59.1	58.5	57.9
71	64.0	63.3	62.7	62.0	61.4	60.7	60.1	59.5	58.8	58.2
72	64.3	63.6	63.0	62.3	61.7	61.0	60.4	59.8	59.2	58.5
73	64.6	63.9	63.3	62.6	62.0	61.3	60.7	60.1	59.5	58.9
74	64.8	64.2	63.5	62.9	62.3	61.6	61.0	60.4	59.8	59.2
75	65.1	64.5	63.8	63.2	62.6	61.9	61.3	60.7	60.1	59.5
76	65.4	64.7	64.1	63.5	62.8	62.2	61.6	61.0	60.4	59.8
77	65.6	65.0	64.4	63.7	63.1	62.5	61.9	61.3	60.7	60.1
78	65.9	65.2	64.6	64.0	63.4	62.8	62.2	61.6	61.0	60.4
79	66.1	65.5	64.9	64.3	63.7	63.0	62.4	61.8	61.2	60.6
80	66.4	65.8	65.1	64.5	63.9	63.3	62.7	62.1	61.5	60.9
81	66.6	66.0	65.4	64.8	64.2	63.6	63.0	62.4	61.8	61.2
82	66.8	66.2	65.6	65.0	64.4	63.8	63.2	62.6	62.1	61.5
83	67.1	66.5	65.9	65.3	64.7	64.1	63.5	62.9	62.3	61.7
84	67.3	66.7	66.1	65.5	64.9	64.3	63.7	63.1	62.6	62.0
85	67.5	66.9	66.3	65.7	65.1	64.6	64.0	63.4	62.8	62.2
86	67.8	67.2	66.6	66.0	65.4	64.8	64.2	63.6	63.1	62.5
87	68.0	67.4	66.8	66.2	65.6	65.0	64.5	63.9	63.3	62.7
88	68.2	67.6	67.0	66.4	65.8	65.3	64.7	64.1	63.5	63.0
89	68.4	67.8	67.2	66.6	66.1	65.5	64.9	64.3	63.8	63.2
90	68.6	68.0	67.4	66.9	66.3	65.7	65.1	64.6	64.0	63.5
91	68.8	68.2	67.6	67.1	66.5	65.9	65.4	64.8	64.2	63.7
92	69.0	68.4	67.8	67.3	66.7	66.1	65.6	65.0	64.5	63.9
93	69.2	68.6	68.1	67.5	66.9	66.4	65.8	65.2	64.7	64.1
94	69.4	68.8	68.3	67.7	67.1	66.6	66.0	65.5	64.9	64.4
95	69.6	69.0	68.5	67.9	67.3	66.8	66.2	65.7	65.1	64.6
96	69.8	69.2	68.6	68.1	67.5	67.0	66.4	65.9	65.3	64.8
97	70.0	69.4	68.8	68.3	67.7	67.2	66.6	66.1	65.6	65.0
98	70.1	69.6	69.0	68.5	67.9	67.4	66.8	66.3	65.8	65.2
99	70.3	69.8	69.2	68.7	68.1	67.6	67.0	66.5	66.0	65.4
100	70.5	70.0	69.4	68.9	68.3	67.8	67.2	66.7	66.2	65.6

表 2a₂（续）

$t-t_w$ / t	11.5	12.0	12.5	13.5	13.5	14.0	14.5	15.0	15.5	16.0
15										
16										
17										
18										
19	0.2									
20	3.3									
21	6.3	2.9								
22	9.0	5.7	2.5							
23	11.6	8.4	5.3	2.2						
24	14.0	10.9	7.9	4.9	2.0					
25	16.3	13.3	10.4	7.5	4.6	1.8				
26	18.4	15.5	12.7	9.9	7.1	4.4	1.7			
27	20.4	17.6	14.9	12.1	9.4	6.8	4.2	1.6		
28	22.4	19.6	16.9	14.3	11.6	9.1	6.5	4.0	1.6	
29	24.2	21.5	18.9	16.3	13.7	11.2	8.7	6.3	3.9	1.6
30	25.9	23.3	20.7	18.2	15.7	13.2	10.8	8.5	6.1	3.8
31	27.5	24.9	22.4	20.0	17.6	15.2	12.8	10.5	8.2	6.0
32	29.0	26.5	24.1	21.7	19.3	17.0	14.7	12.4	10.2	8.0
33	30.5	28.0	25.6	23.3	21.0	18.7	16.5	14.3	12.1	10.0
34	31.8	29.5	27.1	24.8	22.6	20.3	18.2	16.0	13.9	11.8
35	33.1	30.8	28.5	26.3	24.1	21.9	19.7	17.6	15.6	13.5
36	34.4	32.1	29.9	27.6	25.5	23.4	21.3	19.2	17.2	15.2
37	35.6	33.3	31.1	29.0	26.8	24.7	22.7	20.7	18.7	16.8
38	36.7	34.5	32.3	30.2	28.1	26.1	24.1	22.1	20.1	18.2
39	37.7	35.6	33.5	31.4	29.3	27.3	25.4	23.4	21.5	19.6
40	38.8	36.6	34.6	32.5	30.5	28.5	26.6	24.7	22.8	21.0
41	39.7	37.7	35.6	33.6	31.6	29.7	27.8	25.9	24.1	22.3
42	40.7	38.6	36.6	34.6	32.7	30.8	28.9	27.1	25.3	23.5
43	41.6	39.5	37.6	35.6	33.7	31.8	30.0	28.2	26.4	24.6
44	42.4	40.4	38.5	36.5	34.7	32.8	31.0	29.2	27.5	25.8
45	43.2	41.3	39.3	37.4	35.6	33.8	32.0	30.2	28.5	26.8
46	44.0	42.1	40.2	38.3	36.5	34.7	32.9	31.2	29.5	27.8
47	44.7	42.8	41.0	39.1	37.3	35.6	33.8	32.1	30.5	28.8
48	45.5	43.6	41.7	39.9	38.1	36.4	34.7	33.0	31.4	29.7
49	46.2	44.3	42.5	40.7	38.9	37.2	35.5	33.9	32.2	30.6
50	46.8	45.0	43.2	41.4	39.7	38.0	36.3	34.7	33.1	31.5
51	47.5	45.6	43.9	42.1	40.4	38.7	37.1	35.5	33.9	32.3
52	48.1	46.3	44.5	42.8	41.1	39.4	37.8	36.2	34.6	33.1
53	48.7	46.9	45.2	43.4	41.8	40.1	38.5	36.9	35.4	33.9
54	49.2	47.5	45.8	44.1	42.4	40.8	39.2	37.6	36.1	34.6
55	49.8	48.1	46.4	44.7	43.0	41.4	39.9	38.3	36.8	35.3
56	50.3	48.6	46.9	45.3	43.6	42.1	40.5	39.0	37.5	36.0
57	50.8	49.1	47.5	45.8	44.2	42.7	41.1	39.6	38.1	36.6

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表 2a₂（续）

t \ t−t_w	11.5	12.0	12.5	13.5	13.5	14.0	14.5	15.0	15.5	16.0
58	51.3	49.7	48.0	46.4	44.8	43.2	41.7	40.2	38.7	37.3
59	51.8	50.2	48.5	46.9	45.3	43.8	42.3	40.8	39.3	37.9
60	52.3	50.6	49.0	47.4	45.9	44.3	42.8	41.4	39.9	38.5
61	52.7	51.1	49.5	47.9	46.4	44.9	43.4	41.9	40.5	39.1
62	53.2	51.6	50.0	48.4	46.9	45.4	43.9	42.4	41.0	39.6
63	53.6	52.0	50.4	48.9	47.4	45.9	44.4	43.0	41.5	40.2
64	54.0	52.4	50.9	49.3	47.8	46.3	44.9	43.5	42.1	40.7
65	54.4	52.9	51.3	49.8	48.3	46.8	45.4	44.0	42.6	41.2
66	54.8	53.3	51.7	50.2	48.7	47.3	45.8	44.4	43.0	41.7
67	55.2	53.7	52.1	50.6	49.2	47.7	46.3	44.9	43.5	42.2
68	55.6	54.0	52.5	51.0	49.6	48.1	46.7	45.3	44.0	42.6
69	56.0	54.4	52.9	51.4	50.0	48.6	47.2	45.8	44.4	43.1
70	56.3	54.8	53.3	51.8	50.4	49.0	47.6	46.2	44.9	43.5
71	56.7	55.1	53.7	52.2	50.8	49.4	48.0	46.6	45.3	44.0
72	57.0	55.5	54.0	52.6	51.1	49.7	48.4	47.0	45.7	44.4
73	57.3	55.8	54.4	52.9	51.5	50.1	48.8	47.4	46.1	44.8
74	57.7	56.2	54.7	53.3	51.9	50.5	49.1	47.8	46.5	45.2
75	58.0	56.5	55.1	53.6	52.2	50.9	49.5	48.2	46.9	45.6
76	58.3	56.8	55.4	54.0	52.6	51.2	49.9	48.6	47.3	46.0
77	58.6	57.1	55.7	54.3	52.9	51.6	50.2	48.9	47.6	46.4
78	58.9	57.4	56.0	54.6	53.3	51.9	50.6	49.3	48.0	46.7
79	59.2	57.7	56.3	54.9	53.6	52.2	50.9	49.6	48.4	47.1
80	59.5	58.0	56.6	55.3	53.9	52.6	51.3	50.0	48.7	47.5
81	59.8	58.3	56.9	55.6	54.2	52.9	51.6	50.3	49.1	47.8
82	60.0	58.6	57.2	55.9	54.5	53.2	51.9	50.6	49.4	48.2
83	60.3	58.9	57.5	56.2	54.8	53.5	52.2	51.0	49.7	48.5
84	60.6	59.2	57.8	56.5	55.1	53.8	52.5	51.3	50.0	48.8
85	60.8	59.4	58.1	56.7	55.4	54.1	52.8	51.6	50.4	49.1
86	61.1	59.7	58.4	57.0	55.7	54.4	53.1	51.9	50.7	49.5
87	61.3	60.0	58.6	57.3	56.0	54.7	53.4	52.2	51.0	49.8
88	61.6	60.2	58.9	57.6	56.3	55.0	53.7	52.5	51.3	50.1
89	61.8	60.5	59.1	57.8	56.5	55.3	54.0	52.8	51.6	50.4
90	62.1	60.7	59.4	58.1	56.8	55.5	54.3	53.1	51.9	50.7
91	62.3	61.0	59.7	58.4	57.1	55.8	54.6	53.4	52.2	51.0
92	62.6	61.2	59.9	58.6	57.3	56.1	54.8	53.6	52.4	51.3
93	62.8	61.5	60.1	58.9	57.6	56.3	55.1	53.9	52.7	51.6
94	63.0	61.7	60.4	59.1	57.8	56.6	55.4	54.2	53.0	51.8
95	63.2	61.9	60.6	59.4	58.1	56.9	55.6	54.4	53.3	52.1
96	63.5	62.2	60.9	59.6	58.3	57.1	55.9	54.7	53.5	52.4
97	63.7	62.4	61.1	59.8	58.6	57.4	56.2	55.0	53.8	52.7
98	63.9	62.6	61.3	60.1	58.8	57.6	56.4	55.2	54.1	52.9
99	64.1	62.8	61.6	60.3	╲59.1	57.8	56.7	55.5	54.3	53.2
100	64.3	63.0	61.8	60.5	59.3	58.1	56.9	55.7	54.6	53.4

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表 2b 球状水银温度表相对湿度查算表

$$P=110 \text{ kPa}, A=0.794\ 7 \times 10^{-3} \text{℃}^{-1}(0.8 \text{ m/s})$$

$t-t_w$ / t	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0
15	100.0	98.8	97.7	96.5	95.4	94.3	93.1	92.0	90.9	89.7	88.6
16	100.0	98.9	97.8	96.7	95.5	94.4	93.3	92.2	91.2	90.1	89.0
17	100.0	98.9	97.8	96.8	95.7	94.6	93.6	92.5	91.4	90.4	89.3
18	100.0	98.9	97.9	96.9	95.8	94.8	93.7	92.7	91.7	90.7	89.6
19	100.0	99.0	98.0	96.9	95.9	94.9	93.9	92.9	91.9	90.9	89.9
20	100.0	99.0	98.0	97.0	96.1	95.1	94.1	93.1	92.2	91.2	90.2
21	100.0	99.0	98.1	97.1	96.2	95.2	94.3	93.3	92.4	91.4	90.5
22	100.0	99.1	98.1	97.2	96.3	95.3	94.4	93.5	92.6	91.7	90.8
23	100.0	99.1	98.2	97.3	96.4	95.5	94.6	93.7	92.8	91.9	91.0
24	100.0	99.1	98.2	97.3	96.5	95.6	94.7	93.8	92.9	92.1	91.2
25	100.0	99.1	98.3	97.4	96.5	95.7	94.8	94.0	93.1	92.3	91.4
26	100.0	99.1	98.3	97.5	96.6	95.8	94.9	94.1	93.3	92.5	91.6
27	100.0	99.2	98.3	97.5	96.7	95.9	95.1	94.2	93.4	92.6	91.8
28	100.0	99.2	98.4	97.6	96.8	96.0	95.2	94.4	93.6	92.8	92.0
29	100.0	99.2	98.4	97.6	96.8	96.1	95.3	94.5	93.7	92.9	92.2
30	100.0	99.2	98.4	97.7	96.9	96.1	95.4	94.6	93.9	93.1	92.3
31	100.0	99.2	98.5	97.7	97.0	96.2	95.5	94.7	94.0	93.2	92.5
32	100.0	99.3	98.5	97.8	97.0	96.3	95.6	94.8	94.1	93.4	92.6
33	100.0	99.3	98.5	97.8	97.1	96.4	95.6	94.9	94.2	93.5	92.8
34	100.0	99.3	98.6	97.8	97.1	96.4	95.7	95.0	94.3	93.6	92.9
35	100.0	99.3	98.6	97.9	97.2	96.5	95.8	95.1	94.4	93.7	93.0
36	100.0	99.3	98.6	97.9	97.2	96.6	95.9	95.2	94.5	93.8	93.2
37	100.0	99.3	98.6	98.0	97.3	96.6	95.9	95.3	94.6	93.9	93.3
38	100.0	99.3	98.7	98.0	97.3	96.7	96.0	95.4	94.7	94.0	93.4
39	100.0	99.3	98.7	98.0	97.4	96.7	96.1	95.4	94.8	94.1	93.5
40	100.0	99.3	98.7	98.1	97.4	96.8	96.1	95.5	94.9	94.2	93.6
41	100.0	99.4	98.7	98.1	97.5	96.8	96.2	95.6	94.9	94.3	93.7
42	100.0	99.4	98.7	98.1	97.5	96.9	96.3	95.6	95.0	94.4	93.8
43	100.0	99.4	98.8	98.1	97.5	96.9	96.3	95.7	95.1	94.5	93.9
44	100.0	99.4	98.8	98.2	97.6	97.0	96.4	95.8	95.2	94.6	94.0
45	100.0	99.4	98.8	98.2	97.6	97.0	96.4	95.8	95.2	94.6	94.1
46	100.0	99.4	98.8	98.2	97.6	97.0	96.5	95.9	95.3	94.7	94.1
47	100.0	99.4	98.8	98.2	97.7	97.1	96.5	95.9	95.4	94.8	94.2
48	100.0	99.4	98.8	98.3	97.7	97.1	96.5	96.0	95.4	94.9	94.3
49	100.0	99.4	98.9	98.3	97.7	97.2	96.6	96.0	95.5	94.9	94.4
50	100.0	99.4	98.9	98.3	97.7	97.2	96.6	96.1	95.5	95.0	94.4
51	100.0	99.4	98.9	98.3	97.8	97.2	96.7	96.1	95.6	95.0	94.5
52	100.0	99.4	98.9	98.3	97.8	97.3	96.7	96.2	95.6	95.1	94.6
53	100.0	99.5	98.9	98.4	97.8	97.3	96.8	96.2	95.7	95.2	94.6
54	100.0	99.5	98.9	98.4	97.9	97.3	96.8	96.3	95.7	95.2	94.7
55	100.0	99.5	98.9	98.4	97.9	97.4	96.8	96.3	95.8	95.3	94.8
56	100.0	99.5	98.9	98.4	97.9	97.4	96.9	96.3	95.8	95.3	94.8
57	100.0	99.5	99.0	98.4	97.9	97.4	96.9	96.4	95.9	95.4	94.9

表 2b（续）

$t-t_w$ / t	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0
58	100.0	99.5	99.0	98.5	97.9	97.4	96.9	96.4	95.9	95.4	94.9
59	100.0	99.5	99.0	98.5	98.0	97.5	97.0	96.5	96.0	95.5	95.0
60	100.0	99.5	99.0	98.5	98.0	97.5	97.0	96.5	96.0	95.5	95.0
61	100.0	99.5	99.0	98.5	98.0	97.5	97.0	96.5	96.0	95.6	95.1
62	100.0	99.5	99.0	98.5	98.0	97.5	97.1	96.6	96.1	95.6	95.1
63	100.0	99.5	99.0	98.5	98.0	97.6	97.1	96.6	96.1	95.6	95.2
64	100.0	99.5	99.0	98.5	98.1	97.6	97.1	96.6	96.2	95.7	95.2
65	100.0	99.5	99.0	98.6	98.1	97.6	97.1	96.7	96.2	95.7	95.3
66	100.0	99.5	99.0	98.6	98.1	97.6	97.2	96.7	96.2	95.8	95.3
67	100.0	99.5	99.1	98.6	98.1	97.7	97.2	96.7	96.3	95.8	95.3
68	100.0	99.5	99.1	98.6	98.1	97.7	97.2	96.8	96.3	95.8	95.4
69	100.0	99.5	99.1	98.6	98.2	97.7	97.2	96.8	96.3	95.9	95.4
70	100.0	99.5	99.1	98.6	98.2	97.7	97.3	96.8	96.4	95.9	95.5
71	100.0	99.5	99.1	98.6	98.2	97.7	97.3	96.8	96.4	96.0	95.5
72	100.0	99.5	99.1	98.6	98.2	97.8	97.3	96.9	96.4	96.0	95.6
73	100.0	99.6	99.1	98.7	98.2	97.8	97.3	96.9	96.5	96.0	95.6
74	100.0	99.6	99.1	98.7	98.2	97.8	97.4	96.9	96.5	96.1	95.6
75	100.0	99.6	99.1	98.7	98.2	97.8	97.4	96.9	96.5	96.1	95.7
76	100.0	99.6	99.1	98.7	98.3	97.8	97.4	97.0	96.5	96.1	95.7
77	100.0	99.6	99.1	98.7	98.3	97.8	97.4	97.0	96.6	96.2	95.7
78	100.0	99.6	99.1	98.7	98.3	97.9	97.4	97.0	96.6	96.2	95.8
79	100.0	99.6	99.1	98.7	98.3	97.9	97.5	97.0	96.6	96.2	95.8
80	100.0	99.6	99.2	98.7	98.3	97.9	97.5	97.1	96.7	96.2	95.8
81	100.0	99.6	99.2	98.7	98.3	97.9	97.5	97.1	96.7	96.3	95.9
82	100.0	99.6	99.2	98.8	98.3	97.9	97.5	97.1	96.7	96.3	95.9
83	100.0	99.6	99.2	98.8	98.4	97.9	97.5	97.1	96.7	96.3	95.9
84	100.0	99.6	99.2	98.8	98.4	98.0	97.6	97.2	96.8	96.4	96.0
85	100.0	99.6	99.2	98.8	98.4	98.0	97.6	97.2	96.8	96.4	96.0
86	100.0	99.6	99.2	98.8	98.4	98.0	97.6	97.2	96.8	96.4	96.0
87	100.0	99.6	99.2	98.8	98.4	98.0	97.6	97.2	96.8	96.4	96.1
88	100.0	99.6	99.2	98.8	98.4	98.0	97.6	97.2	96.9	96.5	96.1
89	100.0	99.6	99.2	98.8	98.4	98.0	97.7	97.3	96.9	96.5	96.1
90	100.0	99.6	99.2	98.8	98.4	98.1	97.7	97.3	96.9	96.5	96.1
91	100.0	99.6	99.2	98.8	98.5	98.1	97.7	97.3	96.9	96.5	96.2
92	100.0	99.6	99.2	98.8	98.5	98.1	97.7	97.3	96.9	96.6	96.2
93	100.0	99.6	99.2	98.9	98.5	98.1	97.7	97.3	97.0	96.6	96.2
94	100.0	99.6	99.2	98.9	98.5	98.1	97.7	97.4	97.0	96.6	96.2
95	100.0	99.6	99.2	98.9	98.5	98.1	97.7	97.4	97.0	96.6	96.3
96	100.0	99.6	99.3	98.9	98.5	98.1	97.8	97.4	97.0	96.7	96.3
97	100.0	99.6	99.3	98.9	98.5	98.1	97.8	97.4	97.0	96.7	96.3
98	100.0	99.6	99.3	98.9	98.5	98.2	97.8	97.4	97.1	96.7	96.3
99	100.0	99.6	99.3	98.9	98.5	98.2	97.8	97.4	97.1	96.7	96.4
100	100.0	99.6	99.3	98.9	98.5	98.2	97.8	97.5	97.1	96.8	96.4

表 2b（续）

t\(t−t_w)	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0
15	87.5	86.4	85.3	84.2	83.0	81.9	80.8	79.7	78.7	77.6
16	87.9	86.8	85.7	84.7	83.6	82.5	81.5	80.4	79.3	78.3
17	88.3	87.2	86.2	85.1	84.1	83.1	82.0	81.0	80.0	79.0
18	88.6	87.6	86.6	85.6	84.6	83.6	82.6	81.6	80.6	79.6
19	89.0	88.0	87.0	86.0	85.0	84.1	83.1	82.1	81.2	80.2
20	89.3	88.3	87.4	86.4	85.5	84.5	83.6	82.6	81.7	80.8
21	89.6	88.6	87.7	86.8	85.9	85.0	84.0	83.1	82.2	81.3
22	89.8	88.9	88.0	87.1	86.2	85.4	84.5	83.6	82.7	81.8
23	90.1	89.2	88.4	87.5	86.6	85.7	84.9	84.0	83.1	82.3
24	90.4	89.5	88.6	87.8	86.9	86.1	85.3	84.4	83.6	82.7
25	90.6	89.8	88.9	88.1	87.3	86.4	85.6	84.8	84.0	83.2
26	90.8	90.0	89.2	88.4	87.6	86.8	86.0	85.2	84.4	83.6
27	91.0	90.2	89.4	88.6	87.8	87.1	86.3	85.5	84.7	83.9
28	91.2	90.4	89.7	88.9	88.1	87.3	86.6	85.8	85.1	84.3
29	91.4	90.6	89.9	89.1	88.4	87.6	86.9	86.1	85.4	84.6
30	91.6	90.8	90.1	89.4	88.6	87.9	87.1	86.4	85.7	85.0
31	91.8	91.0	90.3	89.6	88.8	88.1	87.4	86.7	86.0	85.3
32	91.9	91.2	90.5	89.8	89.1	88.4	87.7	87.0	86.3	85.6
33	92.1	91.4	90.7	90.0	89.3	88.6	87.9	87.2	86.5	85.8
34	92.2	91.5	90.8	90.2	89.5	88.8	88.1	87.4	86.8	86.1
35	92.4	91.7	91.0	90.3	89.7	89.0	88.3	87.7	87.0	86.3
36	92.5	91.8	91.2	90.5	89.8	89.2	88.5	87.9	87.2	86.6
37	92.6	92.0	91.3	90.7	90.0	89.4	88.7	88.1	87.5	86.8
38	92.7	92.1	91.5	90.8	90.2	89.6	88.9	88.3	87.7	87.0
39	92.9	92.2	91.6	91.0	90.3	89.7	89.1	88.5	87.9	87.2
40	93.0	92.4	91.7	91.1	90.5	89.9	89.3	88.7	88.1	87.4
41	93.1	92.5	91.9	91.3	90.6	90.0	89.4	88.8	88.2	87.6
42	93.2	92.6	92.0	91.4	90.8	90.2	89.6	89.0	88.4	87.8
43	93.3	92.7	92.1	91.5	90.9	90.3	89.7	89.2	88.6	88.0
44	93.4	92.8	92.2	91.6	91.0	90.5	89.9	89.3	88.7	88.2
45	93.5	92.9	92.3	91.7	91.2	90.6	90.0	89.5	88.9	88.3
46	93.6	93.0	92.4	91.9	91.3	90.7	90.2	89.6	89.0	88.5
47	93.7	93.1	92.5	92.0	91.4	90.8	90.3	89.7	89.2	88.6
48	93.7	93.2	92.6	92.1	91.5	91.0	90.4	89.9	89.3	88.8
49	93.8	93.3	92.7	92.2	91.6	91.1	90.5	90.0	89.5	88.9
50	93.9	93.3	92.8	92.3	91.7	91.2	90.7	90.1	89.6	89.1
51	94.0	93.4	92.9	92.4	91.8	91.3	90.8	90.2	89.7	89.2
52	94.0	93.5	93.0	92.4	91.9	91.4	90.9	90.4	89.8	89.3
53	94.1	93.6	93.1	92.5	92.0	91.5	91.0	90.5	90.0	89.5
54	94.2	93.7	93.1	92.6	92.1	91.6	91.1	90.6	90.1	89.6
55	94.2	93.7	93.2	92.7	92.2	91.7	91.2	90.7	90.2	89.7
56	94.3	93.8	93.3	92.8	92.3	91.8	91.3	90.8	90.3	89.8
57	94.4	93.9	93.4	92.9	92.4	91.9	91.4	90.9	90.4	89.9

表 2b（续）

t ＼ $t-t_w$	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0
58	94.4	93.9	93.4	92.9	92.4	92.0	91.5	91.0	90.5	90.0
59	94.5	94.0	93.5	93.0	92.5	92.0	91.6	91.1	90.6	90.1
60	94.5	94.0	93.6	93.1	92.6	92.1	91.6	91.2	90.7	90.2
61	94.6	94.1	93.6	93.2	92.7	92.2	91.7	91.3	90.8	90.3
62	94.6	94.2	93.7	93.2	92.7	92.3	91.8	91.3	90.9	90.4
63	94.7	94.2	93.8	93.3	92.8	92.4	91.9	91.4	91.0	90.5
64	94.7	94.3	93.8	93.4	92.9	92.4	92.0	91.5	91.1	90.6
65	94.8	94.3	93.9	93.4	93.0	92.5	92.0	91.6	91.1	90.7
66	94.8	94.4	93.9	93.5	93.0	92.6	92.1	91.7	91.2	90.8
67	94.9	94.4	94.0	93.5	93.1	92.6	92.2	91.7	91.3	90.9
68	94.9	94.5	94.0	93.6	93.1	92.7	92.3	91.8	91.4	90.9
69	95.0	94.5	94.1	93.6	93.2	92.8	92.3	91.9	91.5	91.0
70	95.0	94.6	94.1	93.7	93.3	92.8	92.4	92.0	91.5	91.1
71	95.1	94.6	94.2	93.8	93.3	92.9	92.5	92.0	91.6	91.2
72	95.1	94.7	94.2	93.8	93.4	93.0	92.5	92.1	91.7	91.3
73	95.2	94.7	94.3	93.9	93.4	93.0	92.6	92.2	91.7	91.3
74	95.2	94.8	94.3	93.9	93.5	93.1	92.7	92.2	91.8	91.4
75	95.2	94.8	94.4	94.0	93.5	93.1	92.7	92.3	91.9	91.5
76	95.3	94.9	94.4	94.0	93.6	93.2	92.8	92.4	91.9	91.5
77	95.3	94.9	94.5	94.1	93.7	93.2	92.8	92.4	92.0	91.6
78	95.4	94.9	94.5	94.1	93.7	93.3	92.9	92.5	92.1	91.7
79	95.4	95.0	94.6	94.2	93.8	93.3	92.9	92.5	92.1	91.7
80	95.4	95.0	94.6	94.2	93.8	93.4	93.0	92.6	92.2	91.8
81	95.5	95.1	94.7	94.3	93.8	93.5	93.1	92.7	92.3	91.9
82	95.5	95.1	94.7	94.3	93.9	93.5	93.1	92.7	92.3	91.9
83	95.5	95.1	94.7	94.3	93.9	93.6	93.2	92.8	92.4	92.0
84	95.6	95.2	94.8	94.4	94.0	93.6	93.2	92.8	92.4	92.0
85	95.6	95.2	94.8	94.4	94.0	93.6	93.3	92.9	92.5	92.1
86	95.6	95.2	94.9	94.5	94.1	93.7	93.3	92.9	92.5	92.2
87	95.7	95.3	94.9	94.5	94.1	93.7	93.4	93.0	92.6	92.2
88	95.7	95.3	94.9	94.5	94.2	93.8	93.4	93.0	92.7	92.3
89	95.7	95.3	95.0	94.6	94.2	93.8	93.5	93.1	92.7	92.3
90	95.8	95.4	95.0	94.6	94.2	93.9	93.5	93.1	92.8	92.4
91	95.8	95.4	95.0	94.7	94.3	93.9	93.5	93.2	92.8	92.4
92	95.8	95.4	95.1	94.7	94.3	94.0	93.6	93.2	92.9	92.5
93	95.8	95.5	95.1	94.7	94.4	94.0	93.6	93.3	92.9	92.5
94	95.9	95.5	95.1	94.8	94.4	94.0	93.7	93.3	93.0	92.6
95	95.9	95.5	95.2	94.8	94.4	94.1	93.7	93.4	93.0	92.7
96	95.9	95.6	95.2	94.8	94.5	94.1	93.8	93.4	93.1	92.7
97	96.0	95.6	95.2	94.9	94.5	94.2	93.8	93.5	93.1	92.8
98	96.0	95.6	95.3	94.9	94.6	94.2	93.9	93.5	93.2	92.8
99	96.0	95.7	95.3	95.0	94.6	94.2	93.9	93.5	93.2	92.8
100	96.0	95.7	95.3	95.0	94.6	94.3	93.9	93.6	93.2	92.9

表 2b（续）

$t-t_w$ t	2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9	3.0
15	76.5	75.4	74.3	73.2	72.2	71.1	70.0	69.0	67.9	66.9
16	77.2	76.2	75.2	74.1	73.1	72.0	71.0	70.0	69.0	67.9
17	78.0	76.9	75.9	74.9	73.9	72.9	71.9	70.9	69.9	69.0
18	78.6	77.6	76.7	75.7	74.7	73.8	72.8	71.8	70.9	69.9
19	79.3	78.3	77.4	76.4	75.5	74.5	73.6	72.7	71.7	70.8
20	79.9	78.9	78.0	77.1	76.2	75.3	74.4	73.4	72.5	71.6
21	80.4	79.5	78.6	77.7	76.8	75.9	75.1	74.2	73.3	72.4
22	80.9	80.1	79.2	78.3	77.5	76.6	75.7	74.9	74.0	73.2
23	81.4	80.6	79.7	78.9	78.0	77.2	76.4	75.5	74.7	73.9
24	81.9	81.1	80.2	79.4	78.6	77.8	77.0	76.2	75.4	74.5
25	82.3	81.5	80.7	79.9	79.1	78.3	77.5	76.7	76.0	75.2
26	82.8	82.0	81.2	80.4	79.6	78.8	78.1	77.3	76.5	75.8
27	83.2	82.4	81.6	80.9	80.1	79.3	78.6	77.8	77.1	76.3
28	83.5	82.8	82.0	81.3	80.5	79.8	79.1	78.3	77.6	76.9
29	83.9	83.2	82.4	81.7	81.0	80.2	79.5	78.8	78.1	77.4
30	84.2	83.5	82.8	82.1	81.4	80.7	79.9	79.2	78.5	77.8
31	84.6	83.8	83.1	82.4	81.7	81.0	80.4	79.7	79.0	78.3
32	84.9	84.2	83.5	82.8	82.1	81.4	80.7	80.1	79.4	78.7
33	85.1	84.5	83.8	83.1	82.4	81.8	81.1	80.4	79.8	79.1
34	85.4	84.8	84.1	83.4	82.8	82.1	81.5	80.8	80.2	79.5
35	85.7	85.0	84.4	83.7	83.1	82.4	81.8	81.2	80.5	79.9
36	85.9	85.3	84.7	84.0	83.4	82.8	82.1	81.5	80.9	80.2
37	86.2	85.6	84.9	84.3	83.7	83.0	82.4	81.8	81.2	80.6
38	86.4	85.8	85.2	84.6	83.9	83.3	82.7	82.1	81.5	80.9
39	86.6	86.0	85.4	84.8	84.2	83.6	83.0	82.4	81.8	81.2
40	86.8	86.2	85.6	85.0	84.5	83.9	83.3	82.7	82.1	81.5
41	87.0	86.5	85.9	85.3	84.7	84.1	83.5	82.9	82.4	81.8
42	87.2	86.7	86.1	85.5	84.9	84.3	83.8	83.2	82.6	82.1
43	87.4	86.9	86.3	85.7	85.1	84.6	84.0	83.4	82.9	82.3
44	87.6	87.0	86.5	85.9	85.4	84.8	84.2	83.7	83.1	82.6
45	87.8	87.2	86.7	86.1	85.6	85.0	84.5	83.9	83.4	82.8
46	87.9	87.4	86.8	86.3	85.8	85.2	84.7	84.1	83.6	83.1
47	88.1	87.6	87.0	86.5	85.9	85.4	84.9	84.3	83.8	83.3
48	88.3	87.7	87.2	86.7	86.1	85.6	85.1	84.5	84.0	83.5
49	88.4	87.9	87.3	86.8	86.3	85.8	85.3	84.7	84.2	83.7
50	88.5	88.0	87.5	87.0	86.5	85.9	85.4	84.9	84.4	83.9
51	88.7	88.2	87.7	87.1	86.6	86.1	85.6	85.1	84.6	84.1
52	88.8	88.3	87.8	87.3	86.8	86.3	85.8	85.3	84.8	84.3
53	88.9	88.4	87.9	87.4	86.9	86.4	85.9	85.5	85.0	84.5
54	89.1	88.6	88.1	87.6	87.1	86.6	86.1	85.6	85.1	84.6
55	89.2	88.7	88.2	87.7	87.2	86.7	86.3	85.8	85.3	84.8
56	89.3	88.8	88.3	87.9	87.4	86.9	86.4	85.9	85.5	85.0
57	89.4	88.9	88.5	88.0	87.5	87.0	86.6	86.1	85.6	85.1

表 2b（续）

t \ t－t_w	2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9	3.0
58	89.5	89.1	88.6	88.1	87.6	87.2	86.7	86.2	85.8	85.3
59	89.6	89.2	88.7	88.2	87.8	87.3	86.8	86.4	85.9	85.4
60	89.8	89.3	88.8	88.4	87.9	87.4	87.0	86.5	86.1	85.6
61	89.9	89.4	88.9	88.5	88.0	87.6	87.1	86.6	86.2	85.7
62	90.0	89.5	89.0	88.6	88.1	87.7	87.2	86.8	86.3	85.9
63	90.1	89.6	89.1	88.7	88.2	87.8	87.3	86.9	86.5	86.0
64	90.1	89.7	89.2	88.8	88.4	87.9	87.5	87.0	86.6	86.1
65	90.2	89.8	89.3	88.9	88.5	88.0	87.6	87.1	86.7	86.3
66	90.3	89.9	89.4	89.0	88.6	88.1	87.7	87.3	86.8	86.4
67	90.4	90.0	89.5	89.1	88.7	88.2	87.8	87.4	86.9	86.5
68	90.5	90.1	89.6	89.2	88.8	88.3	87.9	87.5	87.1	86.6
69	90.6	90.2	89.7	89.3	88.9	88.4	88.0	87.6	87.2	86.8
70	90.7	90.2	89.8	89.4	89.0	88.5	88.1	87.7	87.3	86.9
71	90.8	90.3	89.9	89.5	89.1	88.6	88.2	87.8	87.4	87.0
72	90.8	90.4	90.0	89.6	89.2	88.7	88.3	87.9	87.5	87.1
73	90.9	90.5	90.1	89.7	89.2	88.8	88.4	88.0	87.6	87.2
74	91.0	90.6	90.2	89.7	89.3	88.9	88.5	88.1	87.7	87.3
75	91.1	90.6	90.2	89.8	89.4	89.0	88.6	88.2	87.8	87.4
76	91.1	90.7	90.3	89.9	89.5	89.1	88.7	88.3	87.9	87.5
77	91.2	90.8	90.4	90.0	89.6	89.2	88.8	88.4	88.0	87.6
78	91.3	90.9	90.5	90.1	89.7	89.3	88.9	88.5	88.1	87.7
79	91.3	90.9	90.5	90.2	89.8	89.4	89.0	88.6	88.2	87.8
80	91.4	91.0	90.6	90.2	89.8	89.4	89.1	88.7	88.3	87.9
81	91.5	91.1	90.7	90.3	89.9	89.5	89.1	88.8	88.4	88.0
82	91.5	91.1	90.8	90.4	90.0	89.6	89.2	88.8	88.5	88.1
83	91.6	91.2	90.8	90.4	90.1	89.7	89.3	88.9	88.5	88.2
84	91.7	91.3	90.9	90.5	90.1	89.8	89.4	89.0	88.6	88.3
85	91.7	91.3	91.0	90.6	90.2	89.8	89.5	89.1	88.7	88.3
86	91.8	91.4	91.0	90.7	90.3	89.9	89.5	89.2	88.8	88.4
87	91.8	91.5	91.1	90.7	90.4	90.0	89.6	89.2	88.9	88.5
88	91.9	91.5	91.2	90.8	90.4	90.1	89.7	89.3	89.0	88.6
89	92.0	91.6	91.2	90.9	90.5	90.1	89.8	89.4	89.0	88.7
90	92.0	91.7	91.3	90.9	90.6	90.2	89.8	89.5	89.1	88.8
91	92.1	91.7	91.4	91.0	90.6	90.3	89.9	89.5	89.2	88.8
92	92.1	91.8	91.4	91.1	90.7	90.3	90.0	89.6	89.3	88.9
93	92.2	91.8	91.5	91.1	90.8	90.4	90.0	89.7	89.3	89.0
94	92.2	91.9	91.5	91.2	90.8	90.5	90.1	89.8	89.4	89.1
95	92.3	91.9	91.6	91.2	90.9	90.5	90.2	89.8	89.5	89.1
96	92.3	92.0	91.6	91.3	90.9	90.6	90.2	89.9	89.6	89.2
97	92.4	92.1	91.7	91.4	91.0	90.7	90.3	90.0	89.6	89.3
98	92.5	92.1	91.8	91.4	91.1	90.7	90.4	90.0	89.7	89.4
99	92.5	92.2	91.8	91.5	91.1	90.8	90.4	90.1	89.8	89.4
100	92.6	92.2	91.9	91.5	91.2	90.8	90.5	90.2	89.8	89.5

表 2b（续）

$t-t_w$ / t	3.1	3.2	3.3	3.4	3.5	3.6	3.7	3.8	3.9	4.0
15	65.8	64.7	63.7	62.7	61.6	60.6	59.5	58.5	57.5	56.5
16	66.9	65.9	64.9	63.9	62.9	61.9	60.9	59.9	58.9	57.9
17	68.0	67.0	66.0	65.0	64.1	63.1	62.1	61.2	60.2	59.2
18	68.9	68.0	67.0	66.1	65.2	64.2	63.3	62.4	61.4	60.5
19	69.9	69.0	68.0	67.1	66.2	65.3	64.4	63.5	62.6	61.7
20	70.7	69.8	69.0	68.1	67.2	66.3	65.4	64.5	63.7	62.8
21	71.6	70.7	69.8	69.0	68.1	67.2	66.4	65.5	64.7	63.8
22	72.3	71.5	70.6	69.8	69.0	68.1	67.3	66.5	65.6	64.8
23	73.1	72.2	71.4	70.6	69.8	69.0	·68.2	67.4	66.6	65.8
24	73.7	72.9	72.1	71.3	70.6	69.8	69.0	68.2	67.4	66.6
25	74.4	73.6	72.8	72.1	71.3	70.5	69.7	69.0	68.2	67.5
26	75.0	74.2	73.5	72.7	72.0	71.2	70.5	69.7	69.0	68.2
27	75.6	74.8	74.1	73.4	72.6	71.9	71.2	70.4	69.7	69.0
28	76.1	75.4	74.7	74.0	73.2	72.5	71.8	71.1	70.4	69.7
29	76.6	75.9	75.2	74.5	73.8	73.1	72.4	71.7	71.0	70.3
30	77.1	76.4	75.7	75.1	74.4	73.7	73.0	72.3	71.6	71.0
31	77.6	76.9	76.2	75.6	74.9	74.2	73.6	72.9	72.2	71.6
32	78.0	77.4	76.7	76.1	75.4	74.7	74.1	73.4	72.8	72.1
33	78.5	77.8	77.2	76.5	75.9	75.2	74.6	73.9	73.3	72.7
34	78.9	78.2	77.6	77.0	76.3	75.7	75.1	74.4	73.8	73.2
35	79.3	78.6	78.0	77.4	76.8	76.1	75.5	74.9	74.3	73.7
36	79.6	79.0	78.4	77.8	77.2	76.6	75.9	75.3	74.7	74.1
37	80.0	79.4	78.8	78.2	77.6	77.0	76.4	75.8	75.2	74.6
38	80.3	79.7	79.1	78.5	77.9	77.3	76.8	76.2	75.6	75.0
39	80.6	80.0	79.5	78.9	78.3	77.7	77.1	76.6	76.0	75.4
40	80.9	80.4	79.8	79.2	78.6	78.1	77.5	76.9	76.4	75.8
41	81.2	80.7	80.1	79.5	79.0	78.4	77.8	77.3	76.7	76.2
42	81.5	80.9	80.4	79.8	79.3	78.7	78.2	77.6	77.1	76.5
43	81.8	81.2	80.7	80.1	79.6	79.0	78.5	77.9	77.4	76.9
44	82.0	81.5	80.9	80.4	79.9	79.3	78.8	78.3	77.7	77.2
45	82.3	81.7	81.2	80.7	80.1	79.6	79.1	78.6	78.0	77.5
46	82.5	82.0	81.5	80.9	80.4	79.9	79.4	78.9	78.3	77.8
47	82.8	82.2	81.7	81.2	80.7	80.2	79.6	79.1	78.6	78.1
48	83.0	82.5	81.9	81.4	80.9	80.4	79.9	79.4	78.9	78.4
49	83.2	82.7	82.2	81.7	81.2	80.7	80.2	79.7	79.2	78.7
50	83.4	82.9	82.4	81.9	81.4	80.9	80.4	79.9	79.4	78.9
51	83.6	83.1	82.6	82.1	81.6	81.1	80.6	80.2	79.7	79.2
52	83.8	83.3	82.8	82.3	81.8	81.4	80.9	80.4	79.9	79.4
53	84.0	83.5	83.0	82.5	82.0	81.6	81.1	80.6	80.1	79.7
54	84.2	83.7	83.2	82.7	82.2	81.8	81.3	80.8	80.4	79.9
55	84.3	83.9	83.4	82.9	82.4	82.0	81.5	81.0	80.6	80.1
56	84.5	84.0	83.6	83.1	82.6	82.2	81.7	81.2	80.8	80.3
57	84.7	84.2	83.7	83.3	82.8	82.4	81.9	81.4	81.0	80.5

表 2b（续）

$t-t_w$ / t	3.1	3.2	3.3	3.4	3.5	3.6	3.7	3.8	3.9	4.0
58	84.8	84.4	83.9	83.5	83.0	82.5	82.1	81.6	81.2	80.7
59	85.0	84.5	84.1	83.6	83.2	82.7	82.3	81.8	81.4	80.9
60	85.1	84.7	84.2	83.8	83.3	82.9	82.5	82.0	81.6	81.1
61	85.3	84.8	84.4	84.0	83.5	83.1	82.6	82.2	81.8	81.3
62	85.4	85.0	84.5	84.1	83.7	83.2	82.8	82.4	81.9	81.5
63	85.6	85.1	84.7	84.3	83.8	83.4	83.0	82.5	82.1	81.7
64	85.7	85.3	84.8	84.4	84.0	83.5	83.1	82.7	82.3	81.8
65	85.8	85.4	85.0	84.6	84.1	83.7	83.3	82.9	82.4	82.0
66	86.0	85.5	85.1	84.7	84.3	83.8	83.4	83.0	82.6	82.2
67	86.1	85.7	85.3	84.8	84.4	84.0	83.6	83.2	82.7	82.3
68	86.2	85.8	85.4	85.0	84.6	84.1	83.7	83.3	82.9	82.5
69	86.3	85.9	85.5	85.1	84.7	84.3	83.9	83.5	83.1	82.6
70	86.5	86.0	85.6	85.2	84.8	84.4	84.0	83.6	83.2	82.8
71	86.6	86.2	85.8	85.4	84.9	84.5	84.1	83.7	83.3	82.9
72	86.7	86.3	85.9	85.5	85.1	84.7	84.3	83.9	83.5	83.1
73	86.8	86.4	86.0	85.6	85.2	84.8	84.4	84.0	83.6	83.2
74	86.9	86.5	86.1	85.7	85.3	84.9	84.5	84.1	83.7	83.4
75	87.0	86.6	86.2	85.8	85.4	85.0	84.7	84.3	83.9	83.5
76	87.1	86.7	86.3	85.9	85.6	85.2	84.8	84.4	84.0	83.6
77	87.2	86.8	86.4	86.1	85.7	85.3	84.9	84.5	84.1	83.8
78	87.3	86.9	86.5	86.2	85.8	85.4	85.0	84.6	84.3	83.9
79	87.4	87.0	86.7	86.3	85.9	85.5	85.1	84.8	84.4	84.0
80	87.5	87.1	86.8	86.4	86.0	85.6	85.2	84.9	84.5	84.1
81	87.6	87.2	86.9	86.5	86.1	85.7	85.4	85.0	84.6	84.2
82	87.7	87.3	87.0	86.6	86.2	85.8	85.5	85.1	84.7	84.4
83	87.8	87.4	87.1	86.7	86.3	85.9	85.6	85.2	84.8	84.5
84	87.9	87.5	87.1	86.8	86.4	86.0	85.7	85.3	85.0	84.6
85	88.0	87.6	87.2	86.9	86.5	86.1	85.8	85.4	85.1	84.7
86	88.1	87.7	87.3	87.0	86.6	86.2	85.9	85.5	85.2	84.8
87	88.2	87.8	87.4	87.1	86.7	86.3	86.0	85.6	85.3	84.9
88	88.2	87.9	87.5	87.2	86.8	86.4	86.1	85.7	85.4	85.0
89	88.3	88.0	87.6	87.2	86.9	86.5	86.2	85.8	85.5	85.1
90	88.4	88.0	87.7	87.3	87.0	86.6	86.3	85.9	85.6	85.2
91	88.5	88.1	87.8	87.4	87.1	86.7	86.4	86.0	85.7	85.3
92	88.6	88.2	87.9	87.5	87.2	86.8	86.5	86.1	85.8	85.4
93	88.6	88.3	87.9	87.6	87.3	86.9	86.6	86.2	85.9	85.5
94	88.7	88.4	88.0	87.7	87.3	87.0	86.7	86.3	86.0	85.6
95	88.8	88.5	88.1	87.8	87.4	87.1	86.7	86.4	86.1	85.7
96	88.9	88.5	88.2	87.8	87.5	87.2	86.8	86.5	86.2	85.8
97	88.9	88.6	88.3	87.9	87.6	87.3	86.9	86.6	86.3	85.9
98	89.0	88.7	88.3	88.0	87.7	87.3	87.0	86.7	86.3	86.0
99	89.1	88.8	88.4	88.1	87.8	87.4	87.1	86.8	86.4	86.1
100	89.2	88.8	88.5	88.2	87.8	87.5	87.2	86.8	86.5	86.2

表 2b（续）

$t-t_w$ / t	4.1	4.2	4.3	4.4	4.5	4.6	4.7	4.8	4.9	5.0
15	55.4	54.4	53.4	52.4	51.4	50.	49.4	48.4	47.4	46.4
16	56.9	55.9	54.9	54.0	53.0	52.0	51.0	50.1	49.1	48.1
17	58.3	57.3	56.4	55.4	54.5	53.5	52.6	51.7	50.7	49.8
18	59.6	58.6	57.7	56.8	55.9	55.0	54.1	53.2	52.3	51.4
19	60.8	59.9	59.0	58.1	57.2	56.3	55.5	54.6	53.7	52.8
20	61.9	61.1	60.2	59.3	58.5	57.6	56.8	55.9	55.1	54.2
21	63.0	62.2	61.3	60.5	59.6	58.8	58.0	57.2	56.3	55.5
22	64.0	63.2	62.4	61.6	60.7	59.9	59.1	58.3	57.5	56.7
23	65.0	64.2	63.4	62.6	61.8	61.0	60.2	59.4	58.7	57.9
24	65.9	65.1	64.3	63.5	62.8	62.0	61.2	60.5	59.7	59.0
25	66.7	65.9	65.2	64.4	63.7	62.9	62.2	61.5	60.7	60.0
26	67.5	66.8	66.0	65.3	64.6	63.8	63.1	62.4	61.7	61.0
27	68.3	67.5	66.8	66.1	65.4	64.7	64.0	63.3	62.6	61.9
28	69.0	68.3	67.6	66.9	66.2	65.5	64.8	64.1	63.4	62.7
29	69.6	69.0	68.3	67.6	66.9	66.2	65.6	64.9	64.2	63.6
30	70.3	69.6	69.0	68.3	67.6	67.0	66.3	65.6	65.0	64.3
31	70.9	70.2	69.6	68.9	68.3	67.6	67.0	66.4	65.7	65.1
32	71.5	70.8	70.2	69.6	68.9	68.3	67.7	67.0	66.4	65.8
33	72.0	71.4	70.8	70.2	69.5	68.9	68.3	67.7	67.1	66.4
34	72.6	71.9	71.3	70.7	70.1	69.5	68.9	68.3	67.7	67.1
35	73.1	72.5	71.8	71.2	70.6	70.0	69.5	68.9	68.3	67.7
36	73.5	72.9	72.3	71.8	71.2	70.6	70.0	69.4	68.8	68.3
37	74.0	73.4	72.8	72.2	71.7	71.1	70.5	69.9	69.4	68.8
38	74.4	73.9	73.3	72.7	72.1	71.6	71.0	70.4	69.9	69.3
39	74.8	74.3	73.7	73.2	72.6	72.0	71.5	70.9	70.4	69.8
40	75.2	74.7	74.1	73.6	73.0	72.5	71.9	71.4	70.8	70.3
41	75.6	75.1	74.5	74.0	73.4	72.9	72.4	71.8	71.3	70.8
42	76.0	75.4	74.9	74.4	73.8	73.3	72.8	72.2	71.7	71.2
43	76.3	75.8	75.3	74.7	74.2	73.7	73.2	72.7	72.1	71.6
44	76.7	76.2	75.6	75.1	74.6	74.1	73.6	73.0	72.5	72.0
45	77.0	76.5	76.0	75.5	74.9	74.4	73.9	73.4	72.9	72.4
46	77.3	76.8	76.3	75.8	75.3	74.8	74.3	73.8	73.3	72.8
47	77.6	77.1	76.6	76.1	75.6	75.1	74.6	74.1	73.6	73.1
48	77.9	77.4	76.9	76.4	75.9	75.4	74.9	74.5	74.0	73.5
49	78.2	77.7	77.2	76.7	76.2	75.7	75.3	74.8	74.3	73.8
50	78.4	78.0	77.5	77.0	76.5	76.0	75.6	75.1	74.6	74.1
51	78.7	78.2	77.7	77.3	76.8	76.3	75.9	75.4	74.9	74.4
52	79.0	78.5	78.0	77.5	77.1	76.6	76.1	75.7	75.2	74.7
53	79.2	78.7	78.3	77.8	77.3	76.9	76.4	75.9	75.5	75.0
54	79.4	79.0	78.5	78.0	77.6	77.1	76.7	76.2	75.8	75.3
55	79.7	79.2	78.7	78.3	77.8	77.4	76.9	76.5	76.0	75.6
56	79.9	79.4	79.0	78.5	78.1	77.6	77.2	76.7	76.3	75.9
57	80.1	79.6	79.2	78.7	78.3	77.9	77.4	77.0	76.5	76.1

表 2b（续）

$t-t_w$ / t	4.1	4.2	4.3	4.4	4.5	4.6	4.7	4.8	4.9	5.0
58	80.3	79.9	79.4	79.0	78.5	78.1	77.7	77.2	76.8	76.4
59	80.5	80.1	79.6	79.2	78.7	78.3	77.9	77.5	77.0	76.6
60	80.7	80.3	79.8	79.4	79.0	78.5	78.1	77.7	77.3	76.8
61	80.9	80.5	80.0	79.6	79.2	78.7	78.3	77.9	77.5	77.1
62	81.1	80.6	80.2	79.8	79.4	78.9	78.5	78.1	77.7	77.3
63	81.3	80.8	80.4	80.0	79.6	79.1	78.7	78.3	77.9	77.5
64	81.4	81.0	80.6	80.2	79.8	79.3	78.9	78.5	78.1	77.7
65	81.6	81.2	80.8	80.4	79.9	79.5	79.1	78.7	78.3	77.9
66	81.8	81.4	80.9	80.5	80.1	79.7	79.3	78.9	78.5	78.1
67	81.9	81.5	81.1	80.7	80.3	79.9	79.5	79.1	78.7	78.3
68	82.1	81.7	81.3	80.9	80.5	80.1	79.7	79.3	78.9	78.5
69	82.2	81.8	81.4	81.0	80.6	80.2	79.9	79.5	79.1	78.7
70	82.4	82.0	81.6	81.2	80.8	80.4	80.0	79.6	79.2	78.9
71	82.5	82.1	81.8	81.4	81.0	80.6	80.2	79.8	79.4	79.0
72	82.7	82.3	81.9	81.5	81.1	80.7	80.4	80.0	79.6	79.2
73	82.8	82.4	82.1	81.7	81.3	80.9	80.5	80.1	79.8	79.4
74	83.0	82.6	82.2	81.8	81.4	81.1	80.7	80.3	79.9	79.5
75	83.1	82.7	82.3	82.0	81.6	81.2	80.8	80.5	80.1	79.7
76	83.2	82.9	82.5	82.1	81.7	81.4	81.0	80.6	80.2	79.9
77	83.4	83.0	82.6	82.2	81.9	81.5	81.1	80.8	80.4	80.0
78	83.5	83.1	82.8	82.4	82.0	81.6	81.3	80.9	80.5	80.2
79	83.6	83.3	82.9	82.5	82.2	81.8	81.4	81.1	80.7	80.3
80	83.8	83.4	83.0	82.7	82.3	81.9	81.6	81.2	80.8	80.5
81	83.9	83.5	83.1	82.8	82.4	82.1	81.7	81.3	81.0	80.6
82	84.0	83.6	83.3	82.9	82.5	82.2	81.8	81.5	81.1	80.8
83	84.1	83.8	83.4	83.0	82.7	82.3	82.0	81.6	81.3	80.9
84	84.2	83.9	83.5	83.2	82.8	82.4	82.1	81.7	81.4	81.0
85	84.3	84.0	83.6	83.3	82.9	82.6	82.2	81.9	81.5	81.2
86	84.5	84.1	83.8	83.4	83.1	82.7	82.4	82.0	81.7	81.3
87	84.6	84.2	83.9	83.5	83.2	82.8	82.5	82.1	81.8	81.4
88	84.7	84.3	84.0	83.6	83.3	82.9	82.6	82.3	81.9	81.6
89	84.8	84.4	84.1	83.7	83.4	83.1	82.7	82.4	82.0	81.7
90	84.9	84.5	84.2	83.9	83.5	83.2	82.8	82.5	82.2	81.8
91	85.0	84.7	84.3	84.0	83.6	83.3	83.0	82.6	82.3	82.0
92	85.1	84.8	84.4	84.1	83.7	83.4	83.1	82.7	82.4	82.1
93	85.2	84.9	84.5	84.2	83.9	83.5	83.2	82.9	82.5	82.2
94	85.3	85.0	84.6	84.3	84.0	83.6	83.3	83.0	82.6	82.3
95	85.4	85.1	84.7	84.4	84.1	83.7	83.4	83.1	82.8	82.4
96	85.5	85.2	84.8	84.5	84.2	83.8	83.5	83.2	82.9	82.5
97	85.6	85.3	84.9	84.6	84.3	84.0	83.6	83.3	83.0	82.7
98	85.7	85.4	85.0	84.7	84.4	84.1	83.7	83.4	83.1	82.8
99	85.8	85.5	85.1	84.8	84.5	84.2	83.8	83.5	83.2	82.9
100	85.9	85.5	85.2	84.9	84.6	84.3	83.9	83.6	83.3	83.0

表 2b（续）

t ＼ $t-t_w$	5.2	5.4	5.6	5.8	6.0	6.2	6.4	6.6	6.8	7.0
15	44.4	42.4	40.4	38.5	36.5	34.6	32.7	30.8	28.9	27.0
16	46.2	44.3	42.4	40.5	38.7	36.8	35.0	33.1	31.3	29.5
17	48.0	46.1	44.3	42.5	40.7	38.9	37.1	35.3	33.5	31.8
18	49.6	47.8	46.0	44.3	42.5	40.8	39.1	37.3	35.6	33.9
19	51.1	49.4	47.7	46.0	44.3	42.6	40.9	39.3	37.6	36.0
20	52.5	50.9	49.2	47.6	45.9	44.3	42.7	41.1	39.5	37.9
21	53.9	52.3	50.6	49.0	47.5	45.9	44.3	42.7	41.2	39.6
22	55.2	53.6	52.0	50.5	48.9	47.4	45.8	44.3	42.8	41.3
23	56.3	54.8	53.3	51.8	50.3	48.8	47.3	45.8	44.4	42.9
24	57.5	56.0	54.5	53.0	51.6	50.1	48.7	47.2	45.8	44.4
25	58.5	57.1	55.6	54.2	52.8	51.4	50.0	48.6	47.2	45.8
26	59.5	58.1	56.7	55.3	53.9	52.6	51.2	49.8	48.5	47.1
27	60.5	59.1	57.7	56.4	55.0	53.7	52.3	51.0	49.7	48.4
28	61.4	60.0	58.7	57.4	56.0	54.7	53.4	52.1	50.9	49.6
29	62.2	60.9	59.6	58.3	57.0	55.7	54.5	53.2	52.0	50.7
30	63.0	61.8	60.5	59.2	57.9	56.7	55.4	54.2	53.0	51.8
31	63.8	62.5	61.3	60.1	58.8	57.6	56.4	55.2	54.0	52.8
32	64.5	63.3	62.1	60.9	59.6	58.4	57.3	56.1	54.9	53.7
33	65.2	64.0	62.8	61.6	60.4	59.3	58.1	56.9	55.8	54.6
34	65.9	64.7	63.5	62.3	61.2	60.0	58.9	57.8	56.6	55.5
35	66.5	65.3	64.2	63.0	61.9	60.8	59.6	58.5	57.4	56.3
36	67.1	66.0	64.8	63.7	62.6	61.5	60.4	59.3	58.2	57.1
37	67.7	66.5	65.4	64.3	63.2	62.1	61.1	60.0	58.9	57.9
38	68.2	67.1	66.0	64.9	63.8	62.8	61.7	60.7	59.6	58.6
39	68.7	67.6	66.6	65.5	64.4	63.4	62.3	61.3	60.3	59.2
40	69.2	68.2	67.1	66.0	65.0	64.0	62.9	61.9	60.9	59.9
41	69.7	68.6	67.6	66.6	65.5	64.5	63.5	62.5	61.5	60.5
42	70.2	69.1	68.1	67.1	66.1	65.1	64.1	63.1	62.1	61.1
43	70.6	69.6	68.6	67.5	66.6	65.6	64.6	63.6	62.6	61.7
44	71.0	70.0	69.0	68.0	67.0	66.1	65.1	64.1	63.2	62.2
45	71.4	70.4	69.4	68.5	67.5	66.5	65.6	64.6	63.7	62.7
46	71.8	70.8	69.8	68.9	67.9	67.0	66.0	65.1	64.2	63.2
47	72.2	71.2	70.2	69.3	68.3	67.4	66.5	65.6	64.6	63.7
48	72.5	71.6	70.6	69.7	68.8	67.8	66.9	66.0	65.1	64.2
49	72.9	71.9	71.0	70.1	69.1	68.2	67.3	66.4	65.5	64.6
50	73.2	72.3	71.3	70.4	69.5	68.6	67.7	66.8	66.0	65.1
51	73.5	72.6	71.7	70.8	69.9	69.0	68.1	67.2	66.4	65.5
52	73.8	72.9	72.0	71.1	70.2	69.4	68.5	67.6	66.8	65.9
53	74.1	73.2	72.3	71.5	70.6	69.7	68.8	68.0	67.1	66.3
54	74.4	73.5	72.7	71.8	70.9	70.0	69.2	68.3	67.5	66.7
55	74.7	73.8	73.0	72.1	71.2	70.4	69.5	68.7	67.9	67.0
56	75.0	74.1	73.2	72.4	71.5	70.7	69.9	69.0	68.2	67.4
57	75.2	74.4	73.5	72.7	71.8	71.0	70.2	69.3	68.5	67.7

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表 2b（续）

$t-t_w$ / t	5.2	5.4	5.6	5.8	6.0	6.2	6.4	6.6	6.8	7.0
58	75.5	74.6	73.8	73.0	72.1	71.3	70.5	69.7	68.9	68.0
59	75.7	74.9	74.1	73.2	72.4	71.6	70.8	70.0	69.2	68.4
60	76.0	75.2	74.3	73.5	72.7	71.9	71.1	70.3	69.5	68.7
61	76.2	75.4	74.6	73.8	72.9	72.1	71.3	70.6	69.8	69.0
62	76.5	75.6	74.8	74.0	73.2	72.4	71.6	70.8	70.1	69.3
63	76.7	75.9	75.1	74.3	73.5	72.7	71.9	71.1	70.3	69.6
64	76.9	76.1	75.3	74.5	73.7	72.9	72.1	71.4	70.6	69.8
65	77.1	76.3	75.5	74.7	73.9	73.2	72.4	71.6	70.9	70.1
66	77.3	76.5	75.7	74.9	74.2	73.4	72.6	71.9	71.1	70.4
67	77.5	76.7	75.9	75.2	74.4	73.6	72.9	72.1	71.4	70.6
68	77.7	76.9	76.2	75.4	74.6	73.9	73.1	72.4	71.6	70.9
69	77.9	77.1	76.4	75.6	74.8	74.1	73.3	72.6	71.9	71.1
70	78.1	77.3	76.6	75.8	75.1	74.3	73.6	72.8	72.1	71.4
71	78.3	77.5	76.8	76.0	75.3	74.5	73.8	73.1	72.3	71.6
72	78.4	77.7	76.9	76.2	75.5	74.7	74.0	73.3	72.6	71.8
73	78.6	77.9	77.1	76.4	75.7	74.9	74.2	73.5	72.8	72.1
74	78.8	78.1	77.3	76.6	75.9	75.1	74.4	73.7	73.0	72.3
75	79.0	78.2	77.5	76.8	76.0	75.3	74.6	73.9	73.2	72.5
76	79.1	78.4	77.7	77.0	76.2	75.5	74.8	74.1	73.4	72.7
77	79.3	78.6	77.8	77.1	76.4	75.7	75.0	74.3	73.6	72.9
78	79.5	78.7	78.0	77.3	76.6	75.9	75.2	74.5	73.8	73.1
79	79.6	78.9	78.2	77.5	76.8	76.1	75.4	74.7	74.0	73.3
80	79.8	79.0	78.3	77.6	76.9	76.3	75.6	74.9	74.2	73.5
81	79.9	79.2	78.5	77.8	77.1	76.4	75.7	75.1	74.4	73.7
82	80.1	79.4	78.7	78.0	77.3	76.6	75.9	75.2	74.6	73.9
83	80.2	79.5	78.8	78.1	77.4	76.8	76.1	75.4	74.8	74.1
84	80.3	79.7	79.0	78.3	77.6	76.9	76.3	75.6	74.9	74.3
85	80.5	79.8	79.1	78.4	77.8	77.1	76.4	75.8	75.1	74.5
86	80.6	79.9	79.3	78.6	77.9	77.3	76.6	75.9	75.3	74.6
87	80.8	80.1	79.4	78.7	78.1	77.4	76.8	76.1	75.5	74.8
88	80.9	80.2	79.6	78.9	78.2	77.6	76.9	76.3	75.6	75.0
89	81.0	80.4	79.7	79.0	78.4	77.7	77.1	76.4	75.8	75.2
90	81.2	80.5	79.8	79.2	78.5	77.9	77.2	76.6	76.0	75.3
91	81.3	80.6	80.0	79.3	78.7	78.0	77.4	76.7	76.1	75.5
92	81.4	80.8	80.1	79.5	78.8	78.2	77.5	76.9	76.3	75.6
93	81.5	80.9	80.2	79.6	78.9	78.3	77.7	77.1	76.4	75.8
94	81.7	81.0	80.4	79.7	79.1	78.5	77.8	77.2	76.6	76.0
95	81.8	81.1	80.5	79.9	79.2	78.6	78.0	77.3	76.7	76.1
96	81.9	81.3	80.6	80.0	79.4	78.7	78.1	77.5	76.9	76.3
97	82.0	81.4	80.7	80.1	79.5	78.9	78.3	77.6	77.0	76.4
98	82.1	81.5	80.9	80.2	79.6	79.0	78.4	77.8	77.2	76.6
99	82.2	81.6	81.0	80.4	79.8	79.1	78.5	77.9	77.3	76.7
100	82.4	81.7	81.1	80.5	79.9	79.3	78.7	78.1	77.5	76.9

表 2b（续）

$t-t_w$ / t	7.2	7.4	7.6	7.8	8.0	8.2	8.4	8.6	8.8	9.0
15	25.1	23.3	21.4	19.6	17.7	15.9	14.1	12.3	10.5	8.7
16	27.7	25.9	24.1	22.3	20.5	18.7	17.0	15.3	13.5	11.8
17	30.0	28.3	26.6	24.8	23.1	21.4	19.7	18.1	16.4	14.7
18	32.2	30.6	28.9	27.2	25.6	23.9	22.3	20.7	19.1	17.5
19	34.3	32.7	31.1	29.5	27.9	26.3	24.7	23.2	21.6	20.1
20	36.3	34.7	33.1	31.6	30.0	28.5	27.0	25.5	24.0	22.5
21	38.1	36.6	35.1	33.6	32.1	30.6	29.1	27.6	26.2	24.7
22	39.8	38.4	36.9	35.4	34.0	32.5	31.1	29.7	28.3	26.9
23	41.5	40.0	38.6	37.2	35.8	34.4	33.0	31.6	30.2	28.9
24	43.0	41.6	40.2	38.8	37.5	36.1	34.8	33.4	32.1	30.8
25	44.4	43.1	41.7	40.4	39.1	37.7	36.4	35.1	33.8	32.5
26	45.8	44.5	43.2	41.9	40.6	39.3	38.0	36.7	35.5	34.2
27	47.1	45.8	44.5	43.3	42.0	40.7	39.5	38.3	37.0	35.8
28	48.3	47.1	45.8	44.6	43.3	42.1	40.9	39.7	38.5	37.3
29	49.5	48.2	47.0	45.8	44.6	43.4	42.2	41.0	39.9	38.7
30	50.6	49.4	48.2	47.0	45.8	44.6	43.5	42.3	41.2	40.0
31	51.6	50.4	49.3	48.1	46.9	45.8	44.7	43.5	42.4	41.3
32	52.6	51.4	50.3	49.2	48.0	46.9	45.8	44.7	43.6	42.5
33	53.5	52.4	51.3	50.2	49.1	48.0	46.9	45.8	44.7	43.7
34	54.4	53.3	52.2	51.1	50.0	49.0	47.9	46.8	45.8	44.7
35	55.2	54.2	53.1	52.0	51.0	49.9	48.9	47.8	46.8	45.8
36	56.0	55.0	53.9	52.9	51.8	50.8	49.8	48.8	47.8	46.8
37	56.8	55.8	54.7	53.7	52.7	51.7	50.7	49.7	48.7	47.7
38	57.5	56.5	55.5	54.5	53.5	52.5	51.5	50.5	49.5	48.6
39	58.2	57.2	56.2	55.2	54.2	53.3	52.3	51.3	50.4	49.4
40	58.9	57.9	56.9	55.9	55.0	54.0	53.1	52.1	51.2	50.2
41	59.5	58.6	57.6	56.6	55.7	54.7	53.8	52.8	51.9	51.0
42	60.1	59.2	58.2	57.3	56.3	55.4	54.5	53.6	52.6	51.7
43	60.7	59.8	58.8	57.9	57.0	56.1	55.1	54.2	53.3	52.5
44	61.3	60.3	59.4	58.5	57.6	56.7	55.8	54.9	54.0	53.1
45	61.8	60.9	60.0	59.1	58.2	57.3	56.4	55.5	54.6	53.8
46	62.3	61.4	60.5	59.6	58.7	57.9	57.0	56.1	55.3	54.4
47	62.8	61.9	61.0	60.2	59.3	58.4	57.6	56.7	55.9	55.0
48	63.3	62.4	61.5	60.7	59.8	59.0	58.1	57.3	56.4	55.6
49	63.8	62.9	62.0	61.2	60.3	59.5	58.6	57.8	57.0	56.1
50	64.2	63.3	62.5	61.6	60.8	60.0	59.1	58.3	57.5	56.7
51	64.6	63.8	62.9	62.1	61.3	60.4	59.6	58.8	58.0	57.2
52	65.0	64.2	63.4	62.5	61.7	60.9	60.1	59.3	58.5	57.7
53	65.4	64.6	63.8	63.0	62.1	61.3	60.5	59.7	59.0	58.2
54	65.8	65.0	64.2	63.4	62.6	61.8	61.0	60.2	59.4	58.6
55	66.2	65.4	64.6	63.8	63.0	62.2	61.4	60.6	59.8	59.1
56	66.6	65.8	65.0	64.2	63.4	62.6	61.8	61.0	60.3	59.5
57	66.9	66.1	65.3	64.5	63.8	63.0	62.2	61.4	60.7	59.9

表 2b（续）

t－t_w / t	7.2	7.4	7.6	7.8	8.0	8.2	8.4	8.6	8.8	9.0
58	67.3	66.5	65.7	64.9	64.1	63.4	62.6	61.8	61.1	60.3
59	67.6	66.8	66.0	65.2	64.5	63.7	63.0	62.2	61.5	60.7
60	67.9	67.1	66.4	65.6	64.8	64.1	63.3	62.6	61.8	61.1
61	68.2	67.4	66.7	65.9	65.2	64.4	63.7	62.9	62.2	61.5
62	68.5	67.8	67.0	66.2	65.5	64.8	64.0	63.3	62.6	61.8
63	68.8	68.1	67.3	66.6	65.8	65.1	64.4	63.6	62.9	62.2
64	69.1	68.3	67.6	66.9	66.1	65.4	64.7	64.0	63.2	62.5
65	69.4	68.6	67.9	67.2	66.4	65.7	65.0	64.3	63.6	62.9
66	69.6	68.9	68.2	67.4	66.7	66.0	65.3	64.6	63.9	63.2
67	69.9	69.2	68.5	67.7	67.0	66.3	65.6	64.9	64.2	63.5
68	70.2	69.4	68.7	68.0	67.3	66.6	65.9	65.2	64.5	63.8
69	70.4	69.7	69.0	68.3	67.6	66.9	66.2	65.5	64.8	64.1
70	70.7	70.0	69.2	68.5	67.8	67.1	66.5	65.8	65.1	64.4
71	70.9	70.2	69.5	68.8	68.1	67.4	66.7	66.1	65.4	64.7
72	71.1	70.4	69.7	69.0	68.4	67.7	67.0	66.3	65.7	65.0
73	71.4	70.7	70.0	69.3	68.6	67.9	67.3	66.6	65.9	65.3
74	71.6	70.9	70.2	69.5	68.9	68.2	67.5	66.8	66.2	65.5
75	71.8	71.1	70.4	69.8	69.1	68.4	67.8	67.1	66.4	65.8
76	72.0	71.4	70.7	70.0	69.3	68.7	68.0	67.4	66.7	66.1
77	72.2	71.6	70.9	70.2	69.6	68.9	68.2	67.6	67.0	66.3
78	72.5	71.8	71.1	70.4	69.8	69.1	68.5	67.8	67.2	66.6
79	72.7	72.0	71.3	70.7	70.0	69.4	68.7	68.1	67.4	66.8
80	72.9	72.2	71.5	70.9	70.2	69.6	68.9	68.3	67.7	67.0
81	73.1	72.4	71.7	71.1	70.4	69.8	69.2	68.5	67.9	67.3
82	73.3	72.6	71.9	71.3	70.7	70.0	69.4	68.8	68.1	67.5
83	73.4	72.8	72.1	71.5	70.9	70.2	69.6	69.0	68.4	67.7
84	73.6	73.0	72.3	71.7	71.1	70.4	69.8	69.2	68.6	68.0
85	73.8	73.2	72.5	71.9	71.3	70.6	70.0	69.4	68.8	68.2
86	74.0	73.4	72.7	72.1	71.5	70.8	70.2	69.6	69.0	68.4
87	74.2	73.5	72.9	72.3	71.7	71.0	70.4	69.8	69.2	68.6
88	74.3	73.7	73.1	72.5	71.8	71.2	70.6	70.0	69.4	68.8
89	74.5	73.9	73.3	72.7	72.0	71.4	70.8	70.2	69.6	69.0
90	74.7	74.1	73.4	72.8	72.2	71.6	71.0	70.4	69.8	69.2
91	74.9	74.2	73.6	73.0	72.4	71.8	71.2	70.6	70.0	69.4
92	75.0	74.4	73.8	73.2	72.6	72.0	71.4	70.8	70.2	69.6
93	75.2	74.6	74.0	73.4	72.8	72.2	71.6	71.0	70.4	69.8
94	75.3	74.7	74.1	73.5	72.9	72.3	71.7	71.2	70.6	70.0
95	75.5	74.9	74.3	73.7	73.1	72.5	71.9	71.3	70.8	70.2
96	75.7	75.1	74.5	73.9	73.3	72.7	72.1	71.5	70.9	70.4
97	75.8	75.2	74.6	74.0	73.4	72.9	72.3	71.7	71.1	70.6
98	76.0	75.4	74.8	74.2	73.6	73.0	72.4	71.9	71.3	70.7
99	76.1	75.5	74.9	74.4	73.8	73.2	72.6	72.0	71.5	70.9
100	76.3	75.7	75.1	74.5	73.9	73.4	72.8	72.2	71.7	71.1

表 2b（续）

t＼$t-t_w$	9.2	9.4	9.6	9.8	10.0	10.2	10.4	10.6	10.8	11.0
15	6.9	5.1	3.4	1.6						
16	10.1	8.4	6.7	5.0	3.3	1.7				
17	13.1	11.4	9.8	8.2	6.6	5.0	3.4	1.8	0.2	
18	15.9	14.3	12.7	11.2	9.6	8.0	6.5	5.0	3.4	1.9
19	18.5	17.0	15.5	13.9	12.4	10.9	9.4	8.0	6.5	5.0
20	21.0	19.5	18.0	16.6	15.1	13.7	12.2	10.8	9.4	7.9
21	23.3	21.9	20.4	19.0	17.6	16.2	14.8	13.4	12.0	10.7
22	25.5	24.1	22.7	21.3	20.0	18.6	17.3	15.9	14.6	13.3
23	27.5	26.2	24.8	23.5	22.2	20.9	19.5	18.2	17.0	15.7
24	29.4	28.1	26.8	25.5	24.2	23.0	21.7	20.4	19.2	17.9
25	31.3	30.0	28.7	27.5	26.2	25.0	23.7	22.5	21.3	20.1
26	33.0	31.7	30.5	29.3	28.1	26.9	25.7	24.5	23.3	22.1
27	34.6	33.4	32.2	31.0	29.8	28.6	27.5	26.3	25.1	24.0
28	36.1	34.9	33.8	32.6	31.5	30.3	29.2	28.0	26.9	25.8
29	37.6	36.4	35.3	34.1	33.0	31.9	30.8	29.7	28.6	27.5
30	38.9	37.8	36.7	35.6	34.5	33.4	32.3	31.2	30.2	29.1
31	40.2	39.1	38.0	36.9	35.9	34.8	33.8	32.7	31.7	30.6
32	41.4	40.4	39.3	38.2	37.2	36.2	35.1	34.1	33.1	32.1
33	42.6	41.6	40.5	39.5	38.5	37.4	36.4	35.4	34.4	33.4
34	43.7	42.7	41.7	40.6	39.6	38.6	37.6	36.7	35.7	34.7
35	44.8	43.7	42.7	41.8	40.8	39.8	38.8	37.9	36.9	35.9
36	45.8	44.8	43.8	42.8	41.8	40.9	39.9	39.0	38.0	37.1
37	46.7	45.7	44.8	43.8	42.9	41.9	41.0	40.1	39.1	38.2
38	47.6	46.7	45.7	44.8	43.8	42.9	42.0	41.1	40.2	39.3
39	48.5	47.5	46.6	45.7	44.8	43.9	43.0	42.1	41.2	40.3
40	49.3	48.4	47.5	46.6	45.7	44.8	43.9	43.0	42.1	41.3
41	50.1	49.2	48.3	47.4	46.5	45.6	44.8	43.9	43.0	42.2
42	50.8	50.0	49.1	48.2	47.3	46.5	45.6	44.7	43.9	43.1
43	51.6	50.7	49.8	49.0	48.1	47.2	46.4	45.6	44.7	43.9
44	52.3	51.4	50.5	49.7	48.8	48.0	47.2	46.3	45.5	44.7
45	52.9	52.1	51.2	50.4	49.5	48.7	47.9	47.1	46.3	45.5
46	53.6	52.7	51.9	51.1	50.2	49.4	48.6	47.8	47.0	46.2
47	54.2	53.3	52.5	51.7	50.9	50.1	49.3	48.5	47.7	46.9
48	54.8	53.9	53.1	52.3	51.5	50.7	49.9	49.1	48.4	47.6
49	55.3	54.5	53.7	52.9	52.1	51.3	50.6	49.8	49.0	48.3
50	55.9	55.1	54.3	53.5	52.7	51.9	51.2	50.4	49.6	48.9
51	56.4	55.6	54.8	54.0	53.3	52.5	51.7	51.0	50.2	49.5
52	56.9	56.1	55.3	54.6	53.8	53.0	52.3	51.5	50.8	50.1
53	57.4	56.6	55.8	55.1	54.3	53.6	52.8	52.1	51.4	50.6
54	57.9	57.1	56.3	55.6	54.8	54.1	53.4	52.6	51.9	51.2
55	58.3	57.6	56.8	56.1	55.3	54.6	53.9	53.1	52.4	51.7
56	58.8	58.0	57.3	56.5	55.8	55.1	54.3	53.6	52.9	52.2
57	59.2	58.4	57.7	57.0	56.3	55.5	54.8	54.1	53.4	52.7

表 2b（续）

t―t_w / t	9.2	9.4	9.6	9.8	10.0	10.2	10.4	10.6	10.8	11.0
58	59.6	58.9	58.1	57.4	56.7	56.0	55.3	54.6	53.9	53.2
59	60.0	59.3	58.6	57.8	57.1	56.4	55.7	55.0	54.3	53.6
60	60.4	59.7	59.0	58.2	57.5	56.8	56.1	55.5	54.8	54.1
61	60.8	60.1	59.3	58.6	57.9	57.2	56.6	55.9	55.2	54.5
62	61.1	60.4	59.7	59.0	58.3	57.6	57.0	56.3	55.6	54.9
63	61.5	60.8	60.1	59.4	58.7	58.0	57.4	56.7	56.0	55.4
64	61.8	61.1	60.5	59.8	59.1	58.4	57.7	57.1	56.4	55.8
65	62.2	61.5	60.8	60.1	59.4	58.8	58.1	57.5	56.8	56.1
66	62.5	61.8	61.1	60.5	59.8	59.1	58.5	57.8	57.2	56.5
67	62.8	62.2	61.5	60.8	60.1	59.5	58.8	58.2	57.5	56.9
68	63.1	62.5	61.8	61.1	60.5	59.8	59.2	58.5	57.9	57.3
69	63.5	62.8	62.1	61.5	60.8	60.2	59.5	58.9	58.2	57.6
70	63.8	63.1	62.4	61.8	61.1	60.5	59.8	59.2	58.6	57.9
71	64.0	63.4	62.7	62.1	61.4	60.8	60.2	59.5	58.9	58.3
72	64.3	63.7	63.0	62.4	61.7	61.1	60.5	59.8	59.2	58.6
73	64.6	64.0	63.3	62.7	62.0	61.4	60.8	60.2	59.5	58.9
74	64.9	64.2	63.6	63.0	62.3	61.7	61.1	60.5	59.8	59.2
75	65.2	64.5	63.9	63.2	62.6	62.0	61.4	60.8	60.1	59.5
76	65.4	64.8	64.1	63.5	62.9	62.3	61.7	61.0	60.4	59.8
77	65.7	65.0	64.4	63.8	63.2	62.6	61.9	61.3	60.7	60.1
78	65.9	65.3	64.7	64.1	63.4	62.8	62.2	61.6	61.0	60.4
79	66.2	65.5	64.9	64.3	63.7	63.1	62.5	61.9	61.3	60.7
80	66.4	65.8	65.2	64.6	64.0	63.4	62.8	62.2	61.6	61.0
81	66.7	66.0	65.4	64.8	64.2	63.6	63.0	62.4	61.8	61.3
82	66.9	66.3	65.7	65.1	64.5	63.9	63.3	62.7	62.1	61.5
83	67.1	66.5	65.9	65.3	64.7	64.1	63.5	62.9	62.4	61.8
84	67.3	66.7	66.1	65.5	64.9	64.4	63.8	63.2	62.6	62.0
85	67.6	67.0	66.4	65.8	65.2	64.6	64.0	63.4	62.9	62.3
86	67.8	67.2	66.6	66.0	65.4	64.8	64.3	63.7	63.1	62.5
87	68.0	67.4	66.8	66.2	65.6	65.1	64.5	63.9	63.3	62.8
88	68.2	67.6	67.0	66.4	65.9	65.3	64.7	64.2	63.6	63.0
89	68.4	67.8	67.2	66.7	66.1	65.5	64.9	64.4	63.8	63.3
90	68.6	68.0	67.5	66.9	66.3	65.7	65.2	64.6	64.1	63.5
91	68.8	68.2	67.7	67.1	66.5	66.0	65.4	64.8	64.3	63.7
92	69.0	68.5	67.9	67.3	66.7	66.2	65.6	65.1	64.5	64.0
93	69.2	68.7	68.1	67.5	66.9	66.4	65.8	65.3	64.7	64.2
94	69.4	68.8	68.3	67.7	67.2	66.6	66.0	65.5	64.9	64.4
95	69.6	69.0	68.5	67.9	67.4	66.8	66.2	65.7	65.2	64.6
96	69.8	69.2	68.7	68.1	67.6	67.0	66.5	65.9	65.4	64.8
97	70.0	69.4	68.9	68.3	67.8	67.2	66.7	66.1	65.6	65.0
98	70.2	69.6	69.1	68.5	68.0	67.4	66.9	66.3	65.8	65.2
99	70.4	69.8	69.2	68.7	68.1	67.6	67.1	66.5	66.0	65.5
100	70.5	70.0	69.4	68.9	68.3	67.8	67.3	66.7	66.2	65.7

表 2b（续）

$t-t_w$ / t	11.5	12.0	12.5	13.5	13.5	14.0	14.5	15.0	15.5	16.0
15										
16										
17										
18										
19	1.4									
20	4.4	1.0								
21	7.3	4.0	0.7							
22	10.0	6.7	3.6	0.4						
23	12.5	9.4	6.3	3.2	0.2					
24	14.9	11.8	8.8	5.9	3.0	0.1				
25	17.1	14.1	11.2	8.4	5.6	2.8	0.0			
26	19.2	16.3	13.5	10.7	8.0	5.3	2.6	0.0		
27	21.2	18.4	15.6	12.9	10.3	7.7	5.1	2.5	0.0	
28	23.0	20.3	17.7	15.0	12.4	9.9	7.4	4.9	2.5	0.1
29	24.8	22.2	19.6	17.0	14.5	12.0	9.6	7.1	4.8	2.4
30	26.5	23.9	21.4	18.9	16.4	14.0	11.6	9.3	7.0	4.7
31	28.1	25.5	23.1	20.6	18.2	15.9	13.5	11.3	9.0	6.8
32	29.6	27.1	24.7	22.3	19.9	17.6	15.4	13.2	11.0	8.8
33	31.0	28.6	26.2	23.9	21.6	19.3	17.1	14.9	12.8	10.7
34	32.3	30.0	27.6	25.4	23.1	20.9	18.8	16.6	14.5	12.5
35	33.6	31.3	29.0	26.8	24.6	22.4	20.3	18.2	16.2	14.2
36	34.8	32.5	30.3	28.1	26.0	23.9	21.8	19.8	17.8	15.8
37	36.0	33.7	31.6	29.4	27.3	25.2	23.2	21.2	19.3	17.3
38	37.1	34.9	32.7	30.6	28.6	26.5	24.6	22.6	20.7	18.8
39	38.1	36.0	33.9	31.8	29.8	27.8	25.8	23.9	22.0	20.2
40	39.1	37.0	34.9	32.9	30.9	29.0	27.0	25.2	23.3	21.5
41	40.1	38.0	36.0	34.0	32.0	30.1	28.2	26.3	24.5	22.7
42	41.0	38.9	36.9	35.0	33.1	31.2	29.3	27.5	25.7	23.9
43	41.9	39.8	37.9	35.9	34.0	32.2	30.4	28.6	26.8	25.1
44	42.7	40.7	38.8	36.9	35.0	33.2	31.4	29.6	27.9	26.2
45	43.5	41.5	39.6	37.8	35.9	34.1	32.3	30.6	28.9	27.2
46	44.3	42.3	40.4	38.6	36.8	35.0	33.2	31.5	29.8	28.2
47	45.0	43.1	41.2	39.4	37.6	35.9	34.1	32.4	30.8	29.1
48	45.7	43.8	42.0	40.2	38.4	36.7	35.0	33.3	31.7	30.1
49	46.4	44.5	42.7	40.9	39.2	37.5	35.8	34.1	32.5	30.9
50	47.0	45.2	43.4	41.7	39.9	38.2	36.6	34.9	33.3	31.8
51	47.7	45.8	44.1	42.3	40.6	39.0	37.3	35.7	34.1	32.6
52	48.3	46.5	44.7	43.0	41.3	39.7	38.1	36.5	34.9	33.4
53	48.8	47.1	45.3	43.7	42.0	40.4	38.7	37.2	35.6	34.1
54	49.4	47.7	45.9	44.3	42.6	41.0	39.4	37.9	36.3	34.8
55	49.9	48.2	46.5	44.9	43.2	41.6	40.1	38.5	37.0	35.5
56	50.5	48.8	47.1	45.4	43.8	42.2	40.7	39.2	37.7	36.2
57	51.0	49.3	47.6	46.0	44.4	42.8	41.3	39.8	38.3	36.8

表 2b（续）

$t-t_w$ / t	11.5	12.0	12.5	13.5	13.5	14.0	14.5	15.0	15.5	16.0
58	51.5	49.8	48.2	46.5	45.0	43.4	41.9	40.4	38.9	37.5
59	52.0	50.3	48.7	47.1	45.5	44.0	42.4	41.0	39.5	38.1
60	52.4	50.8	49.2	47.6	46.0	44.5	43.0	41.5	40.1	38.7
61	52.9	51.2	49.6	48.1	46.5	45.0	43.5	42.1	40.6	39.2
62	53.3	51.7	50.1	48.5	47.0	45.5	44.0	42.6	41.2	39.8
63	53.7	52.1	50.5	49.0	47.5	46.0	44.5	43.1	41.7	40.3
64	54.1	52.5	51.0	49.5	47.9	46.5	45.0	43.6	42.2	40.8
65	54.5	53.0	51.4	49.9	48.4	46.9	45.5	44.1	42.7	41.3
66	54.9	53.4	51.8	50.3	48.8	47.4	46.0	44.6	43.2	41.8
67	55.3	53.8	52.2	50.7	49.3	47.8	46.4	45.0	43.6	42.3
68	55.7	54.1	52.6	51.1	49.7	48.2	46.8	45.5	44.1	42.8
69	56.0	54.5	53.0	51.5	50.1	48.7	47.3	45.9	44.5	43.2
70	56.4	54.9	53.4	51.9	50.5	49.1	47.7	46.3	45.0	43.7
71	56.7	55.2	53.7	52.3	50.9	49.5	48.1	46.7	45.4	44.1
72	57.1	55.6	54.1	52.7	51.2	49.8	48.5	47.1	45.8	44.5
73	57.4	55.9	54.5	53.0	51.6	50.2	48.9	47.5	46.2	44.9
74	57.7	56.2	54.8	53.4	52.0	50.6	49.2	47.9	46.6	45.3
75	58.0	56.6	55.1	53.7	52.3	50.9	49.6	48.3	47.0	45.7
76	58.4	56.9	55.5	54.0	52.7	51.3	50.0	48.6	47.4	46.1
77	58.7	57.2	55.8	54.4	53.0	51.6	50.3	49.0	47.7	46.5
78	59.0	57.5	56.1	54.7	53.3	52.0	50.7	49.4	48.1	46.8
79	59.2	57.8	56.4	55.0	53.6	52.3	51.0	49.7	48.4	47.2
80	59.5	58.1	56.7	55.3	54.0	52.6	51.3	50.0	48.8	47.5
81	59.8	58.4	57.0	55.6	54.3	53.0	51.7	50.4	49.1	47.9
82	60.1	58.7	57.3	55.9	54.6	53.3	52.0	50.7	49.5	48.2
83	60.4	59.0	57.6	56.2	54.9	53.6	52.3	51.0	49.8	48.6
84	60.6	59.2	57.9	56.5	55.2	53.9	52.6	51.3	50.1	48.9
85	60.9	59.5	58.1	56.8	55.5	54.2	52.9	51.6	50.4	49.2
86	61.1	59.8	58.4	57.1	55.8	54.5	53.2	52.0	50.7	49.5
87	61.4	60.0	58.7	57.3	56.0	54.8	53.5	52.3	51.0	49.8
88	61.6	60.3	58.9	57.6	56.3	55.0	53.8	52.5	51.3	50.1
89	61.9	60.5	59.2	57.9	56.6	55.3	54.1	52.8	51.6	50.4
90	62.1	60.8	59.4	58.1	56.9	55.6	54.3	53.1	51.9	50.7
91	62.4	61.0	59.7	58.4	57.1	55.9	54.6	53.4	52.2	51.0
92	62.6	61.3	59.9	58.6	57.4	56.1	54.9	53.7	52.5	51.3
93	62.8	61.5	60.2	58.9	57.6	56.4	55.2	54.0	52.8	51.6
94	63.1	61.7	60.4	59.1	57.9	56.6	55.4	54.2	53.0	51.9
95	63.3	62.0	60.7	59.4	58.1	56.9	55.7	54.5	53.3	52.2
96	63.5	62.2	60.9	59.6	58.4	57.1	55.9	54.7	53.6	52.4
97	63.7	62.4	61.1	59.9	58.6	57.4	56.2	55.0	53.8	52.7
98	63.9	62.6	61.4	60.1	58.9	57.6	56.4	55.3	54.1	53.0
99	64.1	62.9	61.6	60.3	59.1	57.9	56.7	55.5	54.4	53.2
100	64.4	63.1	61.8	60.6	59.3	58.1	56.9	55.8	54.6	53.5

表 2c　球状、柱状水银温度表相对湿度查算表

$$P=110 \text{ kPa}, A=0.662\times10^{-3}\text{℃}^{-1}(2.5 \text{ m/s})$$

$t-t_w$ / t	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0
15	100.0	98.9	97.9	96.8	95.7	94.7	93.6	92.6	91.5	90.5	89.5
16	100.0	99.0	97.9	96.9	95.9	94.8	93.8	92.8	91.8	90.8	89.8
17	100.0	99.0	98.0	97.0	96.0	95.0	94.0	93.0	92.0	91.1	90.1
18	100.0	99.0	98.0	97.1	96.1	95.1	94.2	93.2	92.3	91.3	90.3
19	100.0	99.0	98.1	97.1	96.2	95.3	94.3	93.4	92.5	91.5	90.6
20	100.0	99.1	98.1	97.2	96.3	95.4	94.5	93.6	92.7	91.8	90.9
21	100.0	99.1	98.2	97.3	96.4	95.5	94.6	93.7	92.8	92.0	91.1
22	100.0	99.1	98.2	97.4	96.5	95.6	94.7	93.9	93.0	92.2	91.3
23	100.0	99.1	98.3	97.4	96.6	95.7	94.9	94.0	93.2	92.3	91.5
24	100.0	99.2	98.3	97.5	96.6	95.8	95.0	94.2	93.3	92.5	91.7
25	100.0	99.2	98.4	97.5	96.7	95.9	95.1	94.3	93.5	92.7	91.9
26	100.0	99.2	98.4	97.6	96.8	96.0	95.2	94.4	93.6	92.8	92.1
27	100.0	99.2	98.4	97.6	96.9	96.1	95.3	94.5	93.8	93.0	92.2
28	100.0	99.2	98.5	97.7	96.9	96.2	95.4	94.6	93.9	93.1	92.4
29	100.0	99.2	98.5	97.7	97.0	96.2	95.5	94.7	94.0	93.3	92.5
30	100.0	99.3	98.5	97.8	97.0	96.3	95.6	94.9	94.1	93.4	92.7
31	100.0	99.3	98.5	97.8	97.1	96.4	95.7	94.9	94.2	93.5	92.8
32	100.0	99.3	98.6	97.9	97.1	96.4	95.7	95.0	94.3	93.6	93.0
33	100.0	99.3	98.6	97.9	97.2	96.5	95.8	95.1	94.4	93.8	93.1
34	100.0	99.3	98.6	97.9	97.2	96.6	95.9	95.2	94.5	93.9	93.2
35	100.0	99.3	98.6	98.0	97.3	96.6	96.0	95.3	94.6	94.0	93.3
36	100.0	99.3	98.7	98.0	97.3	96.7	96.0	95.4	94.7	94.1	93.4
37	100.0	99.3	98.7	98.0	97.4	96.7	96.1	95.4	94.8	94.2	93.5
38	100.0	99.4	98.7	98.1	97.4	96.8	96.1	95.5	94.9	94.2	93.6
39	100.0	99.4	98.7	98.1	97.5	96.8	96.2	95.6	94.9	94.3	93.7
40	100.0	99.4	98.7	98.1	97.5	96.9	96.3	95.6	95.0	94.4	93.8
41	100.0	99.4	98.8	98.1	97.5	96.9	96.3	95.7	95.1	94.5	93.9
42	100.0	99.4	98.8	98.2	97.6	97.0	96.4	95.8	95.2	94.6	94.0
43	100.0	99.4	98.8	98.2	97.6	97.0	96.4	95.8	95.2	94.6	94.1
44	100.0	99.4	98.8	98.2	97.6	97.0	96.5	95.9	95.3	94.7	94.1
45	100.0	99.4	98.8	98.2	97.7	97.1	96.5	95.9	95.4	94.8	94.2
46	100.0	99.4	98.8	98.3	97.7	97.1	96.5	96.0	95.4	94.8	94.3
47	100.0	99.4	98.9	98.3	97.7	97.1	96.6	96.0	95.5	94.9	94.4
48	100.0	99.4	98.9	98.3	97.7	97.2	96.6	96.1	95.5	95.0	94.4
49	100.0	99.4	98.9	98.3	97.8	97.2	96.7	96.1	95.6	95.0	94.5
50	100.0	99.4	98.9	98.3	97.8	97.3	96.7	96.2	95.6	95.1	94.6
51	100.0	99.5	98.9	98.4	97.8	97.3	96.7	96.2	95.7	95.1	94.6
52	100.0	99.5	98.9	98.4	97.8	97.3	96.8	96.3	95.7	95.2	94.7
53	100.0	99.5	98.9	98.4	97.9	97.3	96.8	96.3	95.8	95.3	94.7
54	100.0	99.5	98.9	98.4	97.9	97.4	96.8	96.3	95.8	95.3	94.8
55	100.0	99.5	99.0	98.4	97.9	97.4	96.9	96.4	95.9	95.4	94.8
56	100.0	99.5	99.0	98.4	97.9	97.4	96.9	96.4	95.9	95.4	94.9
57	100.0	99.5	99.0	98.5	98.0	97.5	96.9	96.4	95.9	95.4	94.9

表 2c（续）

$t-t_w$ / t	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0
58	100.0	99.5	99.0	98.5	98.0	97.5	97.0	96.5	96.0	95.5	95.0
59	100.0	99.5	99.0	98.5	98.0	97.5	97.0	96.5	96.0	95.5	95.0
60	100.0	99.5	99.0	98.5	98.0	97.5	97.0	96.5	96.1	95.6	95.1
61	100.0	99.5	99.0	98.5	98.0	97.5	97.1	96.6	96.1	95.6	95.1
62	100.0	99.5	99.0	98.5	98.1	97.6	97.1	96.6	96.1	95.7	95.2
63	100.0	99.5	99.0	98.6	98.1	97.6	97.1	96.6	96.2	95.7	95.2
64	100.0	99.5	99.0	98.6	98.1	97.6	97.1	96.7	96.2	95.7	95.3
65	100.0	99.5	99.1	98.6	98.1	97.6	97.2	96.7	96.2	95.8	95.3
66	100.0	99.5	99.1	98.6	98.1	97.7	97.2	96.7	96.3	95.8	95.4
67	100.0	99.5	99.1	98.6	98.1	97.7	97.2	96.8	96.3	95.9	95.4
68	100.0	99.5	99.1	98.6	98.2	97.7	97.2	96.8	96.3	95.9	95.4
69	100.0	99.5	99.1	98.6	98.2	97.7	97.3	96.8	96.4	95.9	95.5
70	100.0	99.5	99.1	98.6	98.2	97.7	97.3	96.8	96.4	96.0	95.5
71	100.0	99.5	99.1	98.7	98.2	97.8	97.3	96.9	96.4	96.0	95.6
72	100.0	99.6	99.1	98.7	98.2	97.8	97.3	96.9	96.5	96.0	95.6
73	100.0	99.6	99.1	98.7	98.2	97.8	97.4	96.9	96.5	96.1	95.6
74	100.0	99.6	99.1	98.7	98.2	97.8	97.4	97.0	96.5	96.1	95.7
75	100.0	99.6	99.1	98.7	98.3	97.8	97.4	97.0	96.5	96.1	95.7
76	100.0	99.6	99.1	98.7	98.3	97.8	97.4	97.0	96.6	96.2	95.7
77	100.0	99.6	99.1	98.7	98.3	97.9	97.4	97.0	96.6	96.2	95.8
78	100.0	99.6	99.1	98.7	98.3	97.9	97.5	97.0	96.6	96.2	95.8
79	100.0	99.6	99.2	98.7	98.3	97.9	97.5	97.1	96.7	96.2	95.8
80	100.0	99.6	99.2	98.7	98.3	97.9	97.5	97.1	96.7	96.3	95.9
81	100.0	99.6	99.2	98.8	98.3	97.9	97.5	97.1	96.7	96.3	95.9
82	100.0	99.6	99.2	98.8	98.4	97.9	97.5	97.1	96.7	96.3	95.9
83	100.0	99.6	99.2	98.8	98.4	98.0	97.6	97.2	96.8	96.4	96.0
84	100.0	99.6	99.2	98.8	98.4	98.0	97.6	97.2	96.8	96.4	96.0
85	100.0	99.6	99.2	98.8	98.4	98.0	97.6	97.2	96.8	96.4	96.0
86	100.0	99.6	99.2	98.8	98.4	98.0	97.6	97.2	96.8	96.4	96.0
87	100.0	99.6	99.2	98.8	98.4	98.0	97.6	97.2	96.8	96.5	96.1
88	100.0	99.6	99.2	98.8	98.4	98.0	97.6	97.3	96.9	96.5	96.1
89	100.0	99.6	99.2	98.8	98.4	98.0	97.7	97.3	96.9	96.5	96.1
90	100.0	99.6	99.2	98.8	98.4	98.1	97.7	97.3	96.9	96.5	96.2
91	100.0	99.6	99.2	98.8	98.5	98.1	97.7	97.3	96.9	96.6	96.2
92	100.0	99.6	99.2	98.9	98.5	98.1	97.7	97.3	97.0	96.6	96.2
93	100.0	99.6	99.2	98.9	98.5	98.1	97.7	97.4	97.0	96.6	96.2
94	100.0	99.6	99.2	98.9	98.5	98.1	97.7	97.4	97.0	96.6	96.3
95	100.0	99.6	99.2	98.9	98.5	98.1	97.8	97.4	97.0	96.7	96.3
96	100.0	99.6	99.3	98.9	98.5	98.1	97.8	97.4	97.0	96.7	96.3
97	100.0	99.6	99.3	98.9	98.5	98.2	97.8	97.4	97.1	96.7	96.3
98	100.0	99.6	99.3	98.9	98.5	98.2	97.8	97.4	97.1	96.7	96.4
99	100.0	99.6	99.3	98.9	98.5	98.2	97.8	97.5	97.1	96.7	96.4
100	100.0	99.6	99.3	98.9	98.6	98.2	97.8	97.5	97.1	96.8	96.4

表 2c（续）

$t-t_w$ 　 t	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0
15	88.4	87.4	86.4	85.4	84.3	83.3	82.3	81.3	80.3	79.3
16	88.8	87.8	86.8	85.8	84.8	83.8	82.8	81.8	80.9	79.9
17	89.1	88.1	87.2	86.2	85.2	84.3	83.3	82.4	81.4	80.5
18	89.4	88.5	87.5	86.6	85.6	84.7	83.8	82.9	81.9	81.0
19	89.7	88.8	87.9	86.9	86.0	85.1	84.2	83.3	82.4	81.5
20	90.0	89.1	88.2	87.3	86.4	85.5	84.6	83.8	82.9	82.0
21	90.2	89.3	88.5	87.6	86.7	85.9	85.0	84.2	83.3	82.5
22	90.5	89.6	88.8	87.9	87.1	86.2	85.4	84.6	83.7	82.9
23	90.7	89.9	89.0	88.2	87.4	86.6	85.8	84.9	84.1	83.3
24	90.9	90.1	89.3	88.5	87.7	86.9	86.1	85.3	84.5	83.7
25	91.1	90.3	89.5	88.7	88.0	87.2	86.4	85.6	84.8	84.1
26	91.3	90.5	89.7	89.0	88.2	87.4	86.7	85.9	85.2	84.4
27	91.5	90.7	90.0	89.2	88.5	87.7	87.0	86.2	85.5	84.8
28	91.6	90.9	90.2	89.4	88.7	88.0	87.2	86.5	85.8	85.1
29	91.8	91.1	90.4	89.6	88.9	88.2	87.5	86.8	86.1	85.4
30	92.0	91.3	90.5	89.8	89.1	88.4	87.7	87.0	86.3	85.6
31	92.1	91.4	90.7	90.0	89.3	88.6	88.0	87.3	86.6	85.9
32	92.3	91.6	90.9	90.2	89.5	88.8	88.2	87.5	86.8	86.2
33	92.4	91.7	91.0	90.4	89.7	89.0	88.4	87.7	87.1	86.4
34	92.5	91.9	91.2	90.5	89.9	89.2	88.6	87.9	87.3	86.6
35	92.7	92.0	91.3	90.7	90.1	89.4	88.8	88.1	87.5	86.9
36	92.8	92.1	91.5	90.8	90.2	89.6	89.0	88.3	87.7	87.1
37	92.9	92.3	91.6	91.0	90.4	89.7	89.1	88.5	87.9	87.3
38	93.0	92.4	91.7	91.1	90.5	89.9	89.3	88.7	88.1	87.5
39	93.1	92.5	91.9	91.3	90.7	90.1	89.5	88.9	88.3	87.7
40	93.2	92.6	92.0	91.4	90.8	90.2	89.6	89.0	88.4	87.8
41	93.3	92.7	92.1	91.5	90.9	90.3	89.8	89.2	88.6	88.0
42	93.4	92.8	92.2	91.6	91.0	90.5	89.9	89.3	88.7	88.2
43	93.5	92.9	92.3	91.7	91.2	90.6	90.0	89.5	88.9	88.3
44	93.6	93.0	92.4	91.9	91.3	90.7	90.2	89.6	89.0	88.5
45	93.6	93.1	92.5	92.0	91.4	90.8	90.3	89.7	89.2	88.6
46	93.7	93.2	92.6	92.1	91.5	91.0	90.4	89.9	89.3	88.8
47	93.8	93.3	92.7	92.2	91.6	91.1	90.5	90.0	89.5	88.9
48	93.9	93.3	92.8	92.3	91.7	91.2	90.6	90.1	89.6	89.1
49	93.9	93.4	92.9	92.3	91.8	91.3	90.8	90.2	89.7	89.2
50	94.0	93.5	93.0	92.4	91.9	91.4	90.9	90.3	89.8	89.3
51	94.1	93.6	93.0	92.5	92.0	91.5	91.0	90.5	89.9	89.4
52	94.2	93.6	93.1	92.6	92.1	91.6	91.1	90.6	90.1	89.5
53	94.2	93.7	93.2	92.7	92.2	91.7	91.2	90.7	90.2	89.7
54	94.3	93.8	93.3	92.8	92.3	91.8	91.3	90.8	90.3	89.8
55	94.3	93.8	93.3	92.8	92.3	91.8	91.3	90.9	90.4	89.9
56	94.4	93.9	93.4	92.9	92.4	91.9	91.4	90.9	90.5	90.0
57	94.5	94.0	93.5	93.0	92.5	92.0	91.5	91.0	90.6	90.1

表 2c（续）

$t-t_w$ / t	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0
58	94.5	94.0	93.5	93.1	92.6	92.1	91.6	91.1	90.7	90.2
59	94.6	94.1	93.6	93.1	92.6	92.2	91.7	91.2	90.7	90.3
60	94.6	94.1	93.7	93.2	92.7	92.2	91.8	91.3	90.8	90.4
61	94.7	94.2	93.7	93.3	92.8	92.3	91.8	91.4	90.9	90.5
62	94.7	94.2	93.8	93.3	92.8	92.4	91.9	91.5	91.0	90.6
63	94.8	94.3	93.8	93.4	92.9	92.5	92.0	91.5	91.1	90.6
64	94.8	94.4	93.9	93.4	93.0	92.5	92.1	91.6	91.2	90.7
65	94.9	94.4	93.9	93.5	93.0	92.6	92.1	91.7	91.2	90.8
66	94.9	94.5	94.0	93.6	93.1	92.7	92.2	91.8	91.3	90.9
67	95.0	94.5	94.1	93.6	93.2	92.7	92.3	91.8	91.4	91.0
68	95.0	94.5	94.1	93.7	93.2	92.8	92.3	91.9	91.5	91.0
69	95.0	94.6	94.2	93.7	93.3	92.8	92.4	92.0	91.5	91.1
70	95.1	94.6	94.2	93.8	93.3	92.9	92.5	92.0	91.6	91.2
71	95.1	94.7	94.3	93.8	93.4	93.0	92.5	92.1	91.7	91.3
72	95.2	94.7	94.3	93.9	93.4	93.0	92.6	92.2	91.8	91.3
73	95.2	94.8	94.3	93.9	93.5	93.1	92.7	92.2	91.8	91.4
74	95.2	94.8	94.4	94.0	93.6	93.1	92.7	92.3	91.9	91.5
75	95.3	94.9	94.4	94.0	93.6	93.2	92.8	92.4	92.0	91.5
76	95.3	94.9	94.5	94.1	93.7	93.2	92.8	92.4	92.0	91.6
77	95.4	94.9	94.5	94.1	93.7	93.3	92.9	92.5	92.1	91.7
78	95.4	95.0	94.6	94.2	93.8	93.3	92.9	92.5	92.1	91.7
79	95.4	95.0	94.6	94.2	93.8	93.4	93.0	92.6	92.2	91.8
80	95.5	95.1	94.7	94.2	93.8	93.4	93.1	92.7	92.3	91.9
81	95.5	95.1	94.7	94.3	93.9	93.5	93.1	92.7	92.3	91.9
82	95.5	95.1	94.7	94.3	93.9	93.5	93.2	92.8	92.4	92.0
83	95.6	95.2	94.8	94.4	94.0	93.6	93.2	92.8	92.4	92.0
84	95.6	95.2	94.8	94.4	94.0	93.6	93.3	92.9	92.5	92.1
85	95.6	95.2	94.8	94.5	94.1	93.7	93.3	92.9	92.5	92.2
86	95.7	95.3	94.9	94.5	94.1	93.7	93.4	93.0	92.6	92.2
87	95.7	95.3	94.9	94.5	94.2	93.8	93.4	93.0	92.6	92.3
88	95.7	95.3	95.0	94.6	94.2	93.8	93.4	93.1	92.7	92.3
89	95.7	95.4	95.0	94.6	94.2	93.9	93.5	93.1	92.7	92.4
90	95.8	95.4	95.0	94.7	94.3	93.9	93.5	93.2	92.8	92.4
91	95.8	95.4	95.1	94.7	94.3	94.0	93.6	93.2	92.8	92.5
92	95.8	95.5	95.1	94.7	94.4	94.0	93.6	93.3	92.9	92.5
93	95.9	95.5	95.1	94.8	94.4	94.0	93.7	93.3	92.9	92.6
94	95.9	95.5	95.2	94.8	94.4	94.1	93.7	93.4	93.0	92.6
95	95.9	95.6	95.2	94.8	94.5	94.1	93.8	93.4	93.0	92.7
96	96.0	95.6	95.2	94.9	94.5	94.2	93.8	93.4	93.1	92.7
97	96.0	95.6	95.3	94.9	94.5	94.2	93.8	93.5	93.1	92.8
98	96.0	95.6	95.3	94.9	94.6	94.2	93.9	93.5	93.2	92.8
99	96.0	95.7	95.3	95.0	94.6	94.3	93.9	93.6	93.2	92.9
100	96.1	95.7	95.4	95.0	94.7	94.3	94.0	93.6	93.3	92.9

表 2c（续）

t\t-t_w	2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9	3.0
15	78.3	77.3	76.3	75.3	74.3	73.3	72.3	71.4	70.4	69.4
16	78.9	78.0	77.0	76.0	75.1	74.1	73.2	72.2	71.3	70.3
17	79.5	78.6	77.7	76.7	75.8	74.9	74.0	73.0	72.1	71.2
18	80.1	79.2	78.3	77.4	76.5	75.6	74.7	73.8	72.9	72.0
19	80.7	79.8	78.9	78.0	77.1	76.3	75.4	74.5	73.7	72.8
20	81.2	80.3	79.4	78.6	77.7	76.9	76.0	75.2	74.4	73.5
21	81.6	80.8	80.0	79.1	78.3	77.5	76.7	75.8	75.0	74.2
22	82.1	81.3	80.5	79.7	78.8	78.0	77.2	76.4	75.6	74.8
23	82.5	81.7	80.9	80.1	79.3	78.6	77.8	77.0	76.2	75.4
24	82.9	82.2	81.4	80.6	79.8	79.1	78.3	77.5	76.8	76.0
25	83.3	82.6	81.8	81.0	80.3	79.5	78.8	78.0	77.3	76.6
26	83.7	82.9	82.2	81.5	80.7	80.0	79.2	78.5	77.8	77.1
27	84.0	83.3	82.6	81.8	81.1	80.4	79.7	79.0	78.3	77.6
28	84.3	83.6	82.9	82.2	81.5	80.8	80.1	79.4	78.7	78.0
29	84.7	84.0	83.3	82.6	81.9	81.2	80.5	79.8	79.1	78.5
30	85.0	84.3	83.6	82.9	82.2	81.5	80.9	80.2	79.5	78.9
31	85.2	84.6	83.9	83.2	82.6	81.9	81.2	80.6	79.9	79.3
32	85.5	84.8	84.2	83.5	82.9	82.2	81.6	80.9	80.3	79.6
33	85.8	85.1	84.5	83.8	83.2	82.5	81.9	81.3	80.6	80.0
34	86.0	85.4	84.7	84.1	83.5	82.8	82.2	81.6	81.0	80.3
35	86.2	85.6	85.0	84.4	83.7	83.1	82.5	81.9	81.3	80.7
36	86.5	85.8	85.2	84.6	84.0	83.4	82.8	82.2	81.6	81.0
37	86.7	86.1	85.5	84.9	84.3	83.7	83.1	82.5	81.9	81.3
38	86.9	86.3	85.7	85.1	84.5	83.9	83.3	82.7	82.2	81.6
39	87.1	86.5	85.9	85.3	84.7	84.1	83.6	83.0	82.4	81.8
40	87.3	86.7	86.1	85.5	84.9	84.4	83.8	83.2	82.7	82.1
41	87.4	86.9	86.3	85.7	85.2	84.6	84.0	83.5	82.9	82.4
42	87.6	87.0	86.5	85.9	85.4	84.8	84.3	83.7	83.2	82.6
43	87.8	87.2	86.7	86.1	85.6	85.0	84.5	83.9	83.4	82.8
44	87.9	87.4	86.8	86.3	85.8	85.2	84.7	84.1	83.6	83.1
45	88.1	87.6	87.0	86.5	85.9	85.4	84.9	84.3	83.8	83.3
46	88.2	87.7	87.2	86.6	86.1	85.6	85.1	84.5	84.0	83.5
47	88.4	87.9	87.3	86.8	86.3	85.8	85.2	84.7	84.2	83.7
48	88.5	88.0	87.5	87.0	86.4	85.9	85.4	84.9	84.4	83.9
49	88.7	88.1	87.6	87.1	86.6	86.1	85.6	85.1	84.6	84.1
50	88.8	88.3	87.8	87.3	86.8	86.3	85.8	85.3	84.8	84.3
51	88.9	88.4	87.9	87.4	86.9	86.4	85.9	85.4	84.9	84.4
52	89.0	88.5	88.0	87.5	87.1	86.6	86.1	85.6	85.1	84.6
53	89.2	88.7	88.2	87.7	87.2	86.7	86.2	85.7	85.3	84.8
54	89.3	88.8	88.3	87.8	87.3	86.8	86.4	85.9	85.4	84.9
55	89.4	88.9	88.4	87.9	87.5	87.0	86.5	86.0	85.6	85.1
56	89.5	89.0	88.5	88.1	87.6	87.1	86.6	86.2	85.7	85.2
57	89.6	89.1	88.7	88.2	87.7	87.2	86.8	86.3	85.9	85.4

表 2c（续）

$t \diagdown t_w$ t	2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9	3.0
58	89.7	89.2	88.8	88.3	87.8	87.4	86.9	86.5	86.0	85.5
59	89.8	89.3	88.9	88.4	88.0	87.5	87.0	86.6	86.1	85.7
60	89.9	89.4	89.0	88.5	88.1	87.6	87.2	86.7	86.3	85.8
61	90.0	89.5	89.1	88.6	88.2	87.7	87.3	86.8	86.4	85.9
62	90.1	89.6	89.2	88.7	88.3	87.8	87.4	87.0	86.5	86.1
63	90.2	89.7	89.3	88.8	88.4	88.0	87.5	87.1	86.6	86.2
64	90.3	89.8	89.4	88.9	88.5	88.1	87.6	87.2	86.8	86.3
65	90.4	89.9	89.5	89.0	88.6	88.2	87.7	87.3	86.9	86.4
66	90.4	90.0	89.6	89.1	88.7	88.3	87.8	87.4	87.0	86.6
67	90.5	90.1	89.7	89.2	88.8	88.4	88.0	87.5	87.1	86.7
68	90.6	90.2	89.8	89.3	88.9	88.5	88.1	87.6	87.2	86.8
69	90.7	90.3	89.8	89.4	89.0	88.6	88.2	87.7	87.3	86.9
70	90.8	90.3	89.9	89.5	89.1	88.7	88.3	87.8	87.4	87.0
71	90.8	90.4	90.0	89.6	89.2	88.8	88.3	87.9	87.5	87.1
72	90.9	90.5	90.1	89.7	89.3	88.9	88.4	88.0	87.6	87.2
73	91.0	90.6	90.2	89.8	89.4	88.9	88.5	88.1	87.7	87.3
74	91.1	90.7	90.2	89.8	89.4	89.0	88.6	88.2	87.8	87.4
75	91.1	90.7	90.3	89.9	89.5	89.1	88.7	88.3	87.9	87.5
76	91.2	90.8	90.4	90.0	89.6	89.2	88.8	88.4	88.0	87.6
77	91.3	90.9	90.5	90.1	89.7	89.3	88.9	88.5	88.1	87.7
78	91.3	90.9	90.5	90.2	89.8	89.4	89.0	88.6	88.2	87.8
79	91.4	91.0	90.6	90.2	89.8	89.4	89.1	88.7	88.3	87.9
80	91.5	91.1	90.7	90.3	89.9	89.5	89.1	88.8	88.4	88.0
81	91.5	91.1	90.8	90.4	90.0	89.6	89.2	88.8	88.5	88.1
82	91.6	91.2	90.8	90.4	90.1	89.7	89.3	88.9	88.5	88.2
83	91.7	91.3	90.9	90.5	90.1	89.8	89.4	89.0	88.6	88.3
84	91.7	91.3	91.0	90.6	90.2	89.8	89.5	89.1	88.7	88.3
85	91.8	91.4	91.0	90.7	90.3	89.9	89.5	89.2	88.8	88.4
86	91.8	91.5	91.1	90.7	90.3	90.0	89.6	89.2	88.9	88.5
87	91.9	91.5	91.2	90.8	90.4	90.0	89.7	89.3	88.9	88.6
88	92.0	91.6	91.2	90.8	90.5	90.1	89.8	89.4	89.0	88.7
89	92.0	91.6	91.3	90.9	90.5	90.2	89.8	89.5	89.1	88.7
90	92.1	91.7	91.3	91.0	90.6	90.3	89.9	89.5	89.2	88.8
91	92.1	91.8	91.4	91.0	90.7	90.3	90.0	89.6	89.3	88.9
92	92.2	91.8	91.5	91.1	90.7	90.4	90.0	89.7	89.3	89.0
93	92.2	91.9	91.5	91.2	90.8	90.4	90.1	89.7	89.4	89.0
94	92.3	91.9	91.6	91.2	90.9	90.5	90.2	89.8	89.5	89.1
95	92.3	92.0	91.6	91.3	90.9	90.6	90.2	89.9	89.5	89.2
96	92.4	92.0	91.7	91.3	91.0	90.6	90.3	89.9	89.6	89.3
97	92.4	92.1	91.7	91.4	91.0	90.7	90.4	90.0	89.7	89.3
98	92.5	92.1	91.8	91.4	91.1	90.8	90.4	90.1	89.7	89.4
99	92.5	92.2	91.8	91.5	91.2	90.8	90.5	90.1	89.8	89.5
100	92.6	92.2	91.9	91.6	91.2	90.9	90.5	90.2	89.9	89.5

表 2c（续）

t	t−t_w 3.1	3.2	3.3	3.4	3.5	3.6	3.7	3.8	3.9	4.0
15	68.5	67.5	66.5	65.6	64.6	63.7	62.7	61.8	60.8	59.9
16	69.4	68.5	67.5	66.6	65.7	64.8	63.8	62.9	62.0	61.1
17	70.3	69.4	68.5	67.6	66.7	65.8	64.9	64.0	63.1	62.2
18	71.1	70.3	69.4	68.5	67.6	66.8	65.9	65.0	64.2	63.3
19	71.9	71.1	70.2	69.4	68.5	67.7	66.8	66.0	65.2	64.3
20	72.7	71.8	71.0	70.2	69.4	68.5	67.7	66.9	66.1	65.3
21	73.4	72.6	71.8	71.0	70.2	69.4	68.6	67.8	67.0	66.2
22	74.0	73.3	72.5	71.7	70.9	70.1	69.3	68.6	67.8	67.0
23	74.7	73.9	73.1	72.4	71.6	70.8	70.1	69.3	68.6	67.8
24	75.3	74.5	73.8	73.0	72.3	71.5	70.8	70.0	69.3	68.6
25	75.8	75.1	74.3	73.6	72.9	72.2	71.4	70.7	70.0	69.3
26	76.3	75.6	74.9	74.2	73.5	72.8	72.1	71.4	70.7	70.0
27	76.8	76.1	75.4	74.7	74.1	73.4	72.7	72.0	71.3	70.6
28	77.3	76.6	75.9	75.3	74.6	73.9	73.2	72.6	71.9	71.2
29	77.8	77.1	76.4	75.8	75.1	74.4	73.8	73.1	72.4	71.8
30	78.2	77.5	76.9	76.2	75.6	74.9	74.3	73.6	73.0	72.3
31	78.6	78.0	77.3	76.7	76.0	75.4	74.8	74.1	73.5	72.9
32	79.0	78.4	77.7	77.1	76.5	75.8	75.2	74.6	74.0	73.4
33	79.4	78.7	78.1	77.5	76.9	76.3	75.7	75.0	74.4	73.8
34	79.7	79.1	78.5	77.9	77.3	76.7	76.1	75.5	74.9	74.3
35	80.1	79.5	78.9	78.3	77.7	77.1	76.5	75.9	75.3	74.7
36	80.4	79.8	79.2	78.6	78.0	77.4	76.9	76.3	75.7	75.1
37	80.7	80.1	79.5	78.9	78.4	77.8	77.2	76.6	76.1	75.5
38	81.0	80.4	79.8	79.3	78.7	78.1	77.6	77.0	76.4	75.9
39	81.3	80.7	80.1	79.6	79.0	78.5	77.9	77.4	76.8	76.2
40	81.5	81.0	80.4	79.9	79.3	78.8	78.2	77.7	77.1	76.6
41	81.8	81.3	80.7	80.2	79.6	79.1	78.5	78.0	77.5	76.9
42	82.1	81.5	81.0	80.4	79.9	79.4	78.8	78.3	77.8	77.2
43	82.3	81.8	81.2	80.7	80.2	79.6	79.1	78.6	78.1	77.5
44	82.5	82.0	81.5	81.0	80.4	79.9	79.4	78.9	78.4	77.8
45	82.8	82.2	81.7	81.2	80.7	80.2	79.7	79.1	78.6	78.1
46	83.0	82.5	81.9	81.4	80.9	80.4	79.9	79.4	78.9	78.4
47	83.2	82.7	82.2	81.7	81.2	80.7	80.2	79.7	79.2	78.7
48	83.4	82.9	82.4	81.9	81.4	80.9	80.4	79.9	79.4	78.9
49	83.6	83.1	82.6	82.1	81.6	81.1	80.6	80.1	79.6	79.2
50	83.8	83.3	82.8	82.3	81.8	81.3	80.8	80.4	79.9	79.4
51	83.9	83.5	83.0	82.5	82.0	81.5	81.1	80.6	80.1	79.6
52	84.1	83.6	83.2	82.7	82.2	81.7	81.3	80.8	80.3	79.9
53	84.3	83.8	83.3	82.9	82.4	81.9	81.5	81.0	80.5	80.1
54	84.5	84.0	83.5	83.1	82.6	82.1	81.7	81.2	80.7	80.3
55	84.6	84.2	83.7	83.2	82.8	82.3	81.9	81.4	80.9	80.5
56	84.8	84.3	83.9	83.4	82.9	82.5	82.0	81.6	81.1	80.7
57	84.9	84.5	84.0	83.6	83.1	82.7	82.2	81.8	81.3	80.9

表 2c（续）

$\dfrac{t-t_w}{t}$	3.1	3.2	3.3	3.4	3.5	3.6	3.7	3.8	3.9	4.0
58	85.1	84.6	84.2	83.7	83.3	82.8	82.4	81.9	81.5	81.1
59	85.2	84.8	84.3	83.9	83.4	83.0	82.6	82.1	81.7	81.2
60	85.4	84.9	84.5	84.0	83.6	83.2	82.7	82.3	81.9	81.4
61	85.5	85.1	84.6	84.2	83.8	83.3	82.9	82.5	82.0	81.6
62	85.6	85.2	84.8	84.3	83.9	83.5	83.0	82.6	82.2	81.8
63	85.8	85.3	84.9	84.5	84.0	83.6	83.2	82.8	82.4	81.9
64	85.9	85.5	85.0	84.6	84.2	83.8	83.3	82.9	82.5	82.1
65	86.0	85.6	85.2	84.8	84.3	83.9	83.5	83.1	82.7	82.2
66	86.1	85.7	85.3	84.9	84.5	84.1	83.6	83.2	82.8	82.4
67	86.3	85.8	85.4	85.0	84.6	84.2	83.8	83.4	83.0	82.6
68	86.4	86.0	85.6	85.1	84.7	84.3	83.9	83.5	83.1	82.7
69	86.5	86.1	85.7	85.3	84.9	84.5	84.0	83.6	83.2	82.8
70	86.6	86.2	85.8	85.4	85.0	84.6	84.2	83.8	83.4	83.0
71	86.7	86.3	85.9	85.5	85.1	84.7	84.3	83.9	83.5	83.1
72	86.8	86.4	86.0	85.6	85.2	84.8	84.4	84.0	83.6	83.3
73	86.9	86.5	86.1	85.7	85.3	84.9	84.6	84.2	83.8	83.4
74	87.0	86.6	86.2	85.8	85.5	85.1	84.7	84.3	83.9	83.5
75	87.1	86.7	86.3	86.0	85.6	85.2	84.8	84.4	84.0	83.6
76	87.2	86.8	86.5	86.1	85.7	85.3	84.9	84.5	84.2	83.8
77	87.3	86.9	86.6	86.2	85.8	85.4	85.0	84.6	84.3	83.9
78	87.4	87.0	86.7	86.3	85.9	85.5	85.1	84.8	84.4	84.0
79	87.5	87.1	86.8	86.4	86.0	85.6	85.3	84.9	84.5	84.1
80	87.6	87.2	86.9	86.5	86.1	85.7	85.4	85.0	84.6	84.3
81	87.7	87.3	87.0	86.6	86.2	85.8	85.5	85.1	84.7	84.4
82	87.8	87.4	87.0	86.7	86.3	85.9	85.6	85.2	84.8	84.5
83	87.9	87.5	87.1	86.8	86.4	86.0	85.7	85.3	85.0	84.6
84	88.0	87.6	87.2	86.9	86.5	86.1	85.8	85.4	85.1	84.7
85	88.1	87.7	87.3	87.0	86.6	86.2	85.9	85.5	85.2	84.8
86	88.1	87.8	87.4	87.1	86.7	86.3	86.0	85.6	85.3	84.9
87	88.2	87.9	87.5	87.1	86.8	86.4	86.1	85.7	85.4	85.0
88	88.3	87.9	87.6	87.2	86.9	86.5	86.2	85.8	85.5	85.1
89	88.4	88.0	87.7	87.3	87.0	86.6	86.3	85.9	85.6	85.2
90	88.5	88.1	87.8	87.4	87.1	86.7	86.4	86.0	85.7	85.3
91	88.5	88.2	87.8	87.5	87.1	86.8	86.5	86.1	85.8	85.4
92	88.6	88.3	87.9	87.6	87.2	86.9	86.5	86.2	85.9	85.5
93	88.7	88.4	88.0	87.7	87.3	87.0	86.6	86.3	86.0	85.6
94	88.8	88.4	88.1	87.7	87.4	87.1	86.7	86.4	86.0	85.7
95	88.8	88.5	88.2	87.8	87.5	87.1	86.8	86.5	86.1	85.8
96	88.9	88.6	88.2	87.9	87.6	87.2	86.9	86.6	86.2	85.9
97	89.0	88.7	88.3	88.0	87.6	87.3	87.0	86.6	86.3	86.0
98	89.1	88.7	88.4	88.1	87.7	87.4	87.1	86.7	86.4	86.1
99	89.1	88.8	88.5	88.1	87.8	87.5	87.1	86.8	86.5	86.2
100	89.2	88.9	88.5	88.2	87.9	87.6	87.2	86.9	86.6	86.3

表 2c（续）

t—t_w / t	4.1	4.2	4.3	4.4	4.5	4.6	4.7	4.8	4.9	5.0
15	58.9	58.0	57.1	56.1	55.2	54.3	53.4	52.5	51.5	50.6
16	60.2	59.3	58.4	57.5	56.6	55.7	54.8	53.9	53.0	52.2
17	61.4	60.5	59.6	58.7	57.9	57.0	56.1	55.3	54.4	53.6
18	62.5	61.6	60.8	59.9	59.1	58.2	57.4	56.6	55.7	54.9
19	63.5	62.7	61.9	61.0	60.2	59.4	58.6	57.8	57.0	56.2
20	64.5	63.7	62.9	62.1	61.3	60.5	59.7	58.9	58.1	57.3
21	65.4	64.6	63.8	63.1	62.3	61.5	60.7	60.0	59.2	58.5
22	66.3	65.5	64.7	64.0	63.2	62.5	61.7	61.0	60.2	59.5
23	67.1	66.3	65.6	64.9	64.1	63.4	62.7	61.9	61.2	60.5
24	67.9	67.1	66.4	65.7	65.0	64.3	63.5	62.8	62.1	61.4
25	68.6	67.9	67.2	66.5	65.8	65.1	64.4	63.7	63.0	62.3
26	69.3	68.6	67.9	67.2	66.5	65.8	65.2	64.5	63.8	63.1
27	69.9	69.3	68.6	67.9	67.2	66.6	65.9	65.2	64.6	63.9
28	70.6	69.9	69.2	68.6	67.9	67.3	66.6	66.0	65.3	64.7
29	71.1	70.5	69.8	69.2	68.6	67.9	67.3	66.6	66.0	65.4
30	71.7	71.1	70.4	69.8	69.2	68.5	67.9	67.3	66.7	66.1
31	72.2	71.6	71.0	70.4	69.8	69.1	68.5	67.9	67.3	66.7
32	72.7	72.1	71.5	70.9	70.3	69.7	69.1	68.5	67.9	67.3
33	73.2	72.6	72.0	71.4	70.8	70.2	69.6	69.1	68.5	67.9
34	73.7	73.1	72.5	71.9	71.3	70.8	70.2	69.6	69.0	68.4
35	74.1	73.5	73.0	72.4	71.8	71.2	70.7	70.1	69.5	69.0
36	74.5	74.0	73.4	72.8	72.3	71.7	71.1	70.6	70.0	69.5
37	74.9	74.4	73.8	73.3	72.7	72.2	71.6	71.1	70.5	70.0
38	75.3	74.8	74.2	73.7	73.1	72.6	72.0	71.5	71.0	70.4
39	75.7	75.2	74.6	74.1	73.5	73.0	72.5	71.9	71.4	70.9
40	76.1	75.5	75.0	74.4	73.9	73.4	72.9	72.3	71.8	71.3
41	76.4	75.9	75.3	74.8	74.3	73.8	73.2	72.7	72.2	71.7
42	76.7	76.2	75.7	75.2	74.6	74.1	73.6	73.1	72.6	72.1
43	77.0	76.5	76.0	75.5	75.0	74.5	74.0	73.5	73.0	72.5
44	77.3	76.8	76.3	75.8	75.3	74.8	74.3	73.8	73.3	72.8
45	77.6	77.1	76.6	76.1	75.6	75.1	74.6	74.1	73.7	73.2
46	77.9	77.4	76.9	76.4	75.9	75.4	75.0	74.5	74.0	73.5
47	78.2	77.7	77.2	76.7	76.2	75.7	75.3	74.8	74.3	73.8
48	78.4	77.9	77.5	77.0	76.5	76.0	75.6	75.1	74.6	74.1
49	78.7	78.2	77.7	77.3	76.8	76.3	75.8	75.4	74.9	74.4
50	78.9	78.5	78.0	77.5	77.0	76.6	76.1	75.7	75.2	74.7
51	79.2	78.7	78.2	77.8	77.3	76.8	76.4	75.9	75.5	75.0
52	79.4	78.9	78.5	78.0	77.5	77.1	76.6	76.2	75.7	75.3
53	79.6	79.2	78.7	78.2	77.8	77.3	76.9	76.4	76.0	75.5
54	79.8	79.4	78.9	78.5	78.0	77.6	77.1	76.7	76.2	75.8
55	80.0	79.6	79.1	78.7	78.2	77.8	77.4	76.9	76.5	76.1
56	80.2	79.8	79.4	78.9	78.5	78.0	77.6	77.2	76.7	76.3
57	80.4	80.0	79.6	79.1	78.7	78.2	77.8	77.4	77.0	76.5

表 2c（续）

$t-t_w$ t	4.1	4.2	4.3	4.4	4.5	4.6	4.7	4.8	4.9	5.0
58	80.6	80.2	79.8	79.3	78.9	78.5	78.0	77.6	77.2	76.8
59	80.8	80.4	79.9	79.5	79.1	78.7	78.2	77.8	77.4	77.0
60	81.0	80.6	80.1	79.7	79.3	78.9	78.4	78.0	77.6	77.2
61	81.2	80.7	80.3	79.9	79.5	79.1	78.6	78.2	77.8	77.4
62	81.3	80.9	80.5	80.1	79.7	79.3	78.8	78.4	78.0	77.6
63	81.5	81.1	80.7	80.3	79.9	79.4	79.0	78.6	78.2	77.8
64	81.7	81.3	80.9	80.4	80.0	79.6	79.2	78.8	78.4	78.0
65	81.8	81.4	81.0	80.6	80.2	79.8	79.4	79.0	78.6	78.2
66	82.0	81.6	81.2	80.8	80.4	80.0	79.6	79.2	78.8	78.4
67	82.1	81.7	81.3	80.9	80.5	80.1	79.7	79.4	79.0	78.6
68	82.3	81.9	81.5	81.1	80.7	80.3	79.9	79.5	79.1	78.7
69	82.4	82.0	81.7	81.3	80.9	80.5	80.1	79.7	79.3	78.9
70	82.6	82.2	81.8	81.4	81.0	80.6	80.2	79.9	79.5	79.1
71	82.7	82.3	81.9	81.6	81.2	80.8	80.4	80.0	79.6	79.3
72	82.9	82.5	82.1	81.7	81.3	80.9	80.6	80.2	79.8	79.4
73	83.0	82.6	82.2	81.9	81.5	81.1	80.7	80.3	80.0	79.6
74	83.1	82.8	82.4	82.0	81.6	81.2	80.9	80.5	80.1	79.7
75	83.3	82.9	82.5	82.1	81.8	81.4	81.0	80.6	80.3	79.9
76	83.4	83.0	82.6	82.3	81.9	81.5	81.2	80.8	80.4	80.0
77	83.5	83.1	82.8	82.4	82.0	81.7	81.3	80.9	80.6	80.2
78	83.6	83.3	82.9	82.5	82.2	81.8	81.4	81.1	80.7	80.3
79	83.8	83.4	83.0	82.7	82.3	81.9	81.6	81.2	80.8	80.5
80	83.9	83.5	83.2	82.8	82.4	82.1	81.7	81.3	81.0	80.6
81	84.0	83.6	83.3	82.9	82.6	82.2	81.8	81.5	81.1	80.8
82	84.1	83.8	83.4	83.0	82.7	82.3	82.0	81.6	81.3	80.9
83	84.2	83.9	83.5	83.2	82.8	82.4	82.1	81.7	81.4	81.0
84	84.3	84.0	83.6	83.3	82.9	82.6	82.2	81.9	81.5	81.2
85	84.5	84.1	83.7	83.4	83.0	82.7	82.3	82.0	81.7	81.3
86	84.6	84.2	83.9	83.5	83.2	82.8	82.5	82.1	81.8	81.4
87	84.7	84.3	84.0	83.6	83.3	82.9	82.6	82.2	81.9	81.6
88	84.8	84.4	84.1	83.7	83.4	83.0	82.7	82.4	82.0	81.7
89	84.9	84.5	84.2	83.8	83.5	83.2	82.8	82.5	82.1	81.8
90	85.0	84.6	84.3	84.0	83.6	83.3	82.9	82.6	82.3	81.9
91	85.1	84.7	84.4	84.1	83.7	83.4	83.1	82.7	82.4	82.1
92	85.2	84.8	84.5	84.2	83.8	83.5	83.2	82.8	82.5	82.2
93	85.3	84.9	84.6	84.3	83.9	83.6	83.3	82.9	82.6	82.3
94	85.4	85.0	84.7	84.4	84.0	83.7	83.4	83.1	82.7	82.4
95	85.5	85.1	84.8	84.5	84.1	83.8	83.5	83.2	82.8	82.5
96	85.6	85.2	84.9	84.6	84.2	83.9	83.6	83.3	83.0	82.6
97	85.7	85.3	85.0	84.7	84.4	84.0	83.7	83.4	83.1	82.7
98	85.7	85.4	85.1	84.8	84.5	84.1	83.8	83.5	83.2	82.8
99	85.8	85.5	85.2	84.9	84.5	84.2	83.9	83.6	83.3	83.0
100	85.9	85.6	85.3	85.0	84.6	84.3	84.0	83.7	83.4	83.1

表 2c（续）

$t \diagdown t-t_w$ t	5.2	5.4	5.6	5.8	6.0	6.2	6.4	6.6	6.8	7.0
15	48.8	47.0	45.2	43.5	41.7	39.9	38.2	36.4	34.7	33.0
16	50.4	48.7	46.9	45.2	43.5	41.8	40.1	38.4	36.7	35.1
17	51.9	50.2	48.5	46.8	45.2	43.5	41.9	40.3	38.6	37.0
18	53.3	51.6	50.0	48.4	46.8	45.2	43.6	42.0	40.4	38.9
19	54.6	53.0	51.4	49.8	48.3	46.7	45.2	43.6	42.1	40.6
20	55.8	54.2	52.7	51.2	49.7	48.2	46.7	45.2	43.7	42.2
21	56.9	55.4	53.9	52.5	51.0	49.5	48.1	46.6	45.2	43.8
22	58.0	56.6	55.1	53.7	52.2	50.8	49.4	48.0	46.6	45.2
23	59.0	57.6	56.2	54.8	53.4	52.0	50.6	49.3	47.9	46.6
24	60.0	58.6	57.2	55.9	54.5	53.2	51.8	50.5	49.1	47.8
25	60.9	59.6	58.2	56.9	55.6	54.2	52.9	51.6	50.3	49.0
26	61.8	60.5	59.2	57.8	56.5	55.3	54.0	52.7	51.4	50.2
27	62.6	61.3	60.0	58.7	57.5	56.2	55.0	53.7	52.5	51.3
28	63.4	62.1	60.9	59.6	58.4	57.1	55.9	54.7	53.5	52.3
29	64.1	62.9	61.7	60.4	59.2	58.0	56.8	55.6	54.4	53.3
30	64.8	63.6	62.4	61.2	60.0	58.8	57.6	56.5	55.3	54.2
31	65.5	64.3	63.1	61.9	60.8	59.6	58.5	57.3	56.2	55.1
32	66.1	65.0	63.8	62.6	61.5	60.4	59.2	58.1	57.0	55.9
33	66.7	65.6	64.4	63.3	62.2	61.1	59.9	58.8	57.8	56.7
34	67.3	66.2	65.1	63.9	62.8	61.7	60.6	59.6	58.5	57.4
35	67.9	66.7	65.6	64.5	63.5	62.4	61.3	60.2	59.2	58.1
36	68.4	67.3	66.2	65.1	64.1	63.0	61.9	60.9	59.9	58.8
37	68.9	67.8	66.7	65.7	64.6	63.6	62.5	61.5	60.5	59.5
38	69.4	68.3	67.2	66.2	65.2	64.1	63.1	62.1	61.1	60.1
39	69.8	68.8	67.7	66.7	65.7	64.7	63.7	62.7	61.7	60.7
40	70.3	69.2	68.2	67.2	66.2	65.2	64.2	63.2	62.2	61.3
41	70.7	69.7	68.7	67.7	66.7	65.7	64.7	63.7	62.8	61.8
42	71.1	70.1	69.1	68.1	67.1	66.2	65.2	64.2	63.3	62.4
43	71.5	70.5	69.5	68.5	67.6	66.6	65.7	64.7	63.8	62.9
44	71.8	70.9	69.9	68.9	68.0	67.0	66.1	65.2	64.3	63.3
45	72.2	71.2	70.3	69.3	68.4	67.5	66.5	65.6	64.7	63.8
46	72.5	71.6	70.7	69.7	68.8	67.9	67.0	66.1	65.2	64.3
47	72.9	71.9	71.0	70.1	69.2	68.3	67.4	66.5	65.6	64.7
48	73.2	72.3	71.4	70.4	69.5	68.6	67.7	66.9	66.0	65.1
49	73.5	72.6	71.7	70.8	69.9	69.0	68.1	67.2	66.4	65.5
50	73.8	72.9	72.0	71.1	70.2	69.4	68.5	67.6	66.8	65.9
51	74.1	73.2	72.3	71.4	70.6	69.7	68.8	68.0	67.1	66.3
52	74.4	73.5	72.6	71.7	70.9	70.0	69.2	68.3	67.5	66.6
53	74.7	73.8	72.9	72.1	71.2	70.3	69.5	68.7	67.8	67.0
54	74.9	74.1	73.2	72.3	71.5	70.6	69.8	69.0	68.2	67.3
55	75.2	74.3	73.5	72.6	71.8	70.9	70.1	69.3	68.5	67.7
56	75.4	74.6	73.7	72.9	72.1	71.2	70.4	69.6	68.8	68.0
57	75.7	74.8	74.0	73.2	72.3	71.5	70.7	69.9	69.1	68.3

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表 2c（续）

t—t_w t	5.2	5.4	5.6	5.8	6.0	6.2	6.4	6.6	6.8	7.0
58	75.9	75.1	74.2	73.4	72.6	71.8	71.0	70.2	69.4	68.6
59	76.1	75.3	74.5	73.7	72.9	72.1	71.3	70.5	69.7	68.9
60	76.4	75.5	74.7	73.9	73.1	72.3	71.5	70.7	70.0	69.2
61	76.6	75.8	75.0	74.2	73.4	72.6	71.8	71.0	70.2	69.5
62	76.8	76.0	75.2	74.4	73.6	72.8	72.0	71.3	70.5	69.7
63	77.0	76.2	75.4	74.6	73.8	73.1	72.3	71.5	70.8	70.0
64	77.2	76.4	75.6	74.8	74.1	73.3	72.5	71.8	71.0	70.3
65	77.4	76.6	75.8	75.1	74.3	73.5	72.8	72.0	71.3	70.5
66	77.6	76.8	76.0	75.3	74.5	73.8	73.0	72.3	71.5	70.8
67	77.8	77.0	76.2	75.5	74.7	74.0	73.2	72.5	71.7	71.0
68	78.0	77.2	76.4	75.7	74.9	74.2	73.4	72.7	72.0	71.3
69	78.2	77.4	76.6	75.9	75.1	74.4	73.7	72.9	72.2	71.5
70	78.3	77.6	76.8	76.1	75.3	74.6	73.9	73.1	72.4	71.7
71	78.5	77.8	77.0	76.3	75.5	74.8	74.1	73.4	72.6	71.9
72	78.7	77.9	77.2	76.5	75.7	75.0	74.3	73.6	72.9	72.1
73	78.8	78.1	77.4	76.6	75.9	75.2	74.5	73.8	73.1	72.4
74	79.0	78.3	77.5	76.8	76.1	75.4	74.7	74.0	73.3	72.6
75	79.2	78.4	77.7	77.0	76.3	75.6	74.9	74.2	73.5	72.8
76	79.3	78.6	77.9	77.2	76.5	75.7	75.0	74.4	73.7	73.0
77	79.5	78.8	78.0	77.3	76.6	75.9	75.2	74.5	73.9	73.2
78	79.6	78.9	78.2	77.5	76.8	76.1	75.4	74.7	74.0	73.4
79	79.8	79.1	78.4	77.7	77.0	76.3	75.6	74.9	74.2	73.6
80	79.9	79.2	78.5	77.8	77.1	76.4	75.8	75.1	74.4	73.7
81	80.1	79.4	78.7	78.0	77.3	76.6	75.9	75.3	74.6	73.9
82	80.2	79.5	78.8	78.1	77.5	76.8	76.1	75.4	74.8	74.1
83	80.3	79.7	79.0	78.3	77.6	76.9	76.3	75.6	74.9	74.3
84	80.5	79.8	79.1	78.4	77.8	77.1	76.4	75.8	75.1	74.5
85	80.6	79.9	79.3	78.6	77.9	77.3	76.6	75.9	75.3	74.6
86	80.8	80.1	79.4	78.7	78.1	77.4	76.8	76.1	75.5	74.8
87	80.9	80.2	79.5	78.9	78.2	77.6	76.9	76.3	75.6	75.0
88	81.0	80.3	79.7	79.0	78.4	77.7	77.1	76.4	75.8	75.1
89	81.1	80.5	79.8	79.2	78.5	77.9	77.2	76.6	75.9	75.3
90	81.3	80.6	79.9	79.3	78.6	78.0	77.4	76.7	76.1	75.5
91	81.4	80.7	80.1	79.4	78.8	78.1	77.5	76.9	76.2	75.6
92	81.5	80.9	80.2	79.6	78.9	78.3	77.7	77.0	76.4	75.8
93	81.6	81.0	80.3	79.7	79.1	78.4	77.8	77.2	76.6	75.9
94	81.8	81.1	80.5	79.8	79.2	78.6	77.9	77.3	76.7	76.1
95	81.9	81.2	80.6	80.0	79.3	78.7	78.1	77.5	76.8	76.2
96	82.0	81.3	80.7	80.1	79.5	78.8	78.2	77.6	77.0	76.4
97	82.1	81.5	80.8	80.2	79.6	79.0	78.4	77.7	77.1	76.5
98	82.2	81.6	81.0	80.3	79.7	79.1	78.5	77.9	77.3	76.7
99	82.3	81.7	81.1	80.5	79.8	79.2	78.6	78.0	77.4	76.8
100	82.4	81.8	81.2	80.6	80.0	79.4	78.8	78.2	77.6	77.0

表 2c（续）

$t-t_w$　　t	7.2	7.4	7.6	7.8	8.0	8.2	8.4	8.6	8.8	9.0
15	31.3	29.6	27.9	26.2	24.6	22.9	21.3	19.6	18.0	16.4
16	33.4	31.8	30.2	28.5	26.9	25.3	23.7	22.2	20.6	19.0
17	35.4	33.9	32.3	30.7	29.2	27.6	26.1	24.5	23.0	21.5
18	37.3	35.8	34.3	32.8	31.2	29.7	28.3	26.8	25.3	23.8
19	39.1	37.6	36.1	34.7	33.2	31.8	30.3	28.9	27.4	26.0
20	40.8	39.3	37.9	36.5	35.0	33.6	32.2	30.8	29.5	28.1
21	42.3	40.9	39.5	38.2	36.8	35.4	34.0	32.7	31.4	30.0
22	43.8	42.5	41.1	39.7	38.4	37.1	35.8	34.4	33.1	31.8
23	45.2	43.9	42.6	41.2	39.9	38.6	37.4	36.1	34.8	33.5
24	46.5	45.2	43.9	42.7	41.4	40.1	38.9	37.6	36.4	35.2
25	47.8	46.5	45.2	44.0	42.8	41.5	40.3	39.1	37.9	36.7
26	48.9	47.7	46.5	45.3	44.0	42.8	41.7	40.5	39.3	38.1
27	50.0	48.8	47.6	46.5	45.3	44.1	42.9	41.8	40.6	39.5
28	51.1	49.9	48.7	47.6	46.4	45.3	44.1	43.0	41.9	40.8
29	52.1	50.9	49.8	48.7	47.5	46.4	45.3	44.2	43.1	42.0
30	53.0	51.9	50.8	49.7	48.6	47.5	46.4	45.3	44.2	43.1
31	53.9	52.8	51.7	50.6	49.5	48.5	47.4	46.3	45.3	44.2
32	54.8	53.7	52.6	51.5	50.5	49.4	48.4	47.3	46.3	45.3
33	55.6	54.5	53.5	52.4	51.4	50.3	49.3	48.3	47.3	46.3
34	56.4	55.3	54.3	53.2	52.2	51.2	50.2	49.2	48.2	47.2
35	57.1	56.1	55.1	54.0	53.0	52.0	51.0	50.1	49.1	48.1
36	57.8	56.8	55.8	54.8	53.8	52.8	51.8	50.9	49.9	49.0
37	58.5	57.5	56.5	55.5	54.5	53.6	52.6	51.7	50.7	49.8
38	59.1	58.1	57.2	56.2	55.2	54.3	53.3	52.4	51.5	50.6
39	59.7	58.8	57.8	56.9	55.9	55.0	54.0	53.1	52.2	51.3
40	60.3	59.4	58.4	57.5	56.6	55.6	54.7	53.8	52.9	52.0
41	60.9	59.9	59.0	58.1	57.2	56.3	55.4	54.5	53.6	52.7
42	61.4	60.5	59.6	58.7	57.8	56.9	56.0	55.1	54.2	53.3
43	61.9	61.0	60.1	59.2	58.3	57.4	56.6	55.7	54.8	54.0
44	62.4	61.5	60.6	59.8	58.9	58.0	57.1	56.3	55.4	54.6
45	62.9	62.0	61.1	60.3	59.4	58.5	57.7	56.8	56.0	55.2
46	63.4	62.5	61.6	60.8	59.9	59.1	58.2	57.4	56.5	55.7
47	63.8	63.0	62.1	61.2	60.4	59.5	58.7	57.9	57.1	56.2
48	64.2	63.4	62.5	61.7	60.9	60.0	59.2	58.4	57.6	56.8
49	64.7	63.8	63.0	62.1	61.3	60.5	59.7	58.9	58.1	57.3
50	65.1	64.2	63.4	62.6	61.7	60.9	60.1	59.3	58.5	57.7
51	65.4	64.6	63.8	63.0	62.2	61.4	60.6	59.8	59.0	58.2
52	65.8	65.0	64.2	63.4	62.6	61.8	61.0	60.2	59.4	58.7
53	66.2	65.4	64.6	63.8	63.0	62.2	61.4	60.6	59.8	59.1
54	66.5	65.7	64.9	64.1	63.3	62.6	61.8	61.0	60.3	59.5
55	66.9	66.1	65.3	64.5	63.7	62.9	62.2	61.4	60.7	59.9
56	67.2	66.4	65.6	64.8	64.1	63.3	62.6	61.8	61.0	60.3
57	67.5	66.7	66.0	65.2	64.4	63.7	62.9	62.2	61.4	60.7

表 2c（续）

t＼t−t_w	7.2	7.4	7.6	7.8	8.0	8.2	8.4	8.6	8.8	9.0
58	67.8	67.1	66.3	65.5	64.8	64.0	63.3	62.5	61.8	61.1
59	68.1	67.4	66.6	65.8	65.1	64.3	63.6	62.9	62.1	61.4
60	68.4	67.7	66.9	66.2	65.4	64.7	63.9	63.2	62.5	61.8
61	68.7	68.0	67.2	66.5	65.7	65.0	64.3	63.5	62.8	62.1
62	69.0	68.2	67.5	66.8	66.0	65.3	64.6	63.9	63.2	62.5
63	69.3	68.5	67.8	67.1	66.3	65.6	64.9	64.2	63.5	62.8
64	69.5	68.8	68.1	67.3	66.6	65.9	65.2	64.5	63.8	63.1
65	69.8	69.1	68.3	67.6	66.9	66.2	65.5	64.8	64.1	63.4
66	70.0	69.3	68.6	67.9	67.2	66.5	65.8	65.1	64.4	63.7
67	70.3	69.6	68.9	68.1	67.4	66.7	66.0	65.4	64.7	64.0
68	70.5	69.8	69.1	68.4	67.7	67.0	66.3	65.6	65.0	64.3
69	70.8	70.1	69.4	68.7	68.0	67.3	66.6	65.9	65.2	64.6
70	71.0	70.3	69.6	68.9	68.2	67.5	66.9	66.2	65.5	64.8
71	71.2	70.5	69.8	69.1	68.5	67.8	67.1	66.4	65.8	65.1
72	71.5	70.8	70.1	69.4	68.7	68.0	67.4	66.7	66.0	65.4
73	71.7	71.0	70.3	69.6	68.9	68.3	67.6	66.9	66.3	65.6
74	71.9	71.2	70.5	69.8	69.2	68.5	67.8	67.2	66.5	65.9
75	72.1	71.4	70.7	70.1	69.4	68.7	68.1	67.4	66.8	66.1
76	72.3	71.6	71.0	70.3	69.6	69.0	68.3	67.7	67.0	66.4
77	72.5	71.8	71.2	70.5	69.8	69.2	68.5	67.9	67.3	66.6
78	72.7	72.0	71.4	70.7	70.1	69.4	68.8	68.1	67.5	66.9
79	72.9	72.2	71.6	70.9	70.3	69.6	69.0	68.3	67.7	67.1
80	73.1	72.4	71.8	71.1	70.5	69.8	69.2	68.6	67.9	67.3
81	73.3	72.6	72.0	71.3	70.7	70.0	69.4	68.8	68.2	67.5
82	73.5	72.8	72.2	71.5	70.9	70.3	69.6	69.0	68.4	67.8
83	73.6	73.0	72.4	71.7	71.1	70.5	69.8	69.2	68.6	68.0
84	73.8	73.2	72.5	71.9	71.3	70.7	70.0	69.4	68.8	68.2
85	74.0	73.4	72.7	72.1	71.5	70.8	70.2	69.6	69.0	68.4
86	74.2	73.5	72.9	72.3	71.7	71.0	70.4	69.8	69.2	68.6
87	74.3	73.7	73.1	72.5	71.8	71.2	70.6	70.0	69.4	68.8
88	74.5	73.9	73.3	72.6	72.0	71.4	70.8	70.2	69.6	69.0
89	74.7	74.1	73.4	72.8	72.2	71.6	71.0	70.4	69.8	69.2
90	74.8	74.2	73.6	73.0	72.4	71.8	71.2	70.6	70.0	69.4
91	75.0	74.4	73.8	73.2	72.6	72.0	71.4	70.8	70.2	69.6
92	75.2	74.6	73.9	73.3	72.7	72.1	71.5	71.0	70.4	69.8
93	75.3	74.7	74.1	73.5	72.9	72.3	71.7	71.1	70.6	70.0
94	75.5	74.9	74.3	73.7	73.1	72.5	71.9	71.3	70.7	70.2
95	75.6	75.0	74.4	73.8	73.2	72.7	72.1	71.5	70.9	70.3
96	75.8	75.2	74.6	74.0	73.4	72.8	72.2	71.7	71.1	70.5
97	75.9	75.3	74.7	74.2	73.6	73.0	72.4	71.8	71.3	70.7
98	76.1	75.5	74.9	74.3	73.7	73.2	72.6	72.0	71.4	70.9
99	76.2	75.6	75.1	74.5	73.9	73.3	72.7	72.2	71.6	71.0
100	76.4	75.8	75.2	74.6	74.0	73.5	72.9	72.3	71.8	71.2

表 2c（续）

$t-t_w$ t	9.2	9.4	9.6	9.8	10.0	10.2	10.4	10.6	10.8	11.0
15	14.8	13.2	11.6	10.0	8.4	6.9	5.3	3.8	2.2	0.7
16	17.5	15.9	14.4	12.9	11.4	9.8	8.3	6.9	5.4	3.9
17	20.0	18.5	17.0	15.6	14.1	12.6	11.2	9.8	8.3	6.9
18	22.4	20.9	19.5	18.1	16.7	15.3	13.9	12.5	11.1	9.7
19	24.6	23.2	21.8	20.5	19.1	17.7	16.4	15.0	13.7	12.3
20	26.7	25.4	24.0	22.7	21.3	20.0	18.7	17.4	16.1	14.8
21	28.7	27.4	26.1	24.8	23.5	22.2	20.9	19.7	18.4	17.1
22	30.5	29.3	28.0	26.7	25.5	24.2	23.0	21.8	20.5	19.3
23	32.3	31.0	29.8	28.6	27.4	26.2	24.9	23.8	22.6	21.4
24	33.9	32.7	31.5	30.3	29.1	28.0	26.8	25.6	24.5	23.3
25	35.5	34.3	33.1	32.0	30.8	29.7	28.5	27.4	26.3	25.2
26	37.0	35.8	34.7	33.5	32.4	31.3	30.2	29.1	28.0	26.9
27	38.4	37.2	36.1	35.0	33.9	32.8	31.7	30.6	29.6	28.5
28	39.7	38.6	37.5	36.4	35.3	34.2	33.2	32.1	31.1	30.0
29	40.9	39.8	38.8	37.7	36.7	35.6	34.6	33.5	32.5	31.5
30	42.1	41.0	40.0	39.0	37.9	36.9	35.9	34.9	33.9	32.9
31	43.2	42.2	41.1	40.1	39.1	38.1	37.1	36.1	35.2	34.2
32	44.3	43.3	42.2	41.3	40.3	39.3	38.3	37.3	36.4	35.4
33	45.3	44.3	43.3	42.3	41.4	40.4	39.4	38.5	37.5	36.6
34	46.2	45.3	44.3	43.3	42.4	41.4	40.5	39.6	38.7	37.7
35	47.1	46.2	45.2	44.3	43.4	42.4	41.5	40.6	39.7	38.8
36	48.0	47.1	46.1	45.2	44.3	43.4	42.5	41.6	40.7	39.8
37	48.8	47.9	47.0	46.1	45.2	44.3	43.4	42.5	41.7	40.8
38	49.6	48.7	47.8	46.9	46.0	45.2	44.3	43.4	42.6	41.7
39	50.4	49.5	48.6	47.7	46.9	46.0	45.1	44.3	43.4	42.6
40	51.1	50.2	49.4	48.5	47.6	46.8	45.9	45.1	44.3	43.4
41	51.8	50.9	50.1	49.2	48.4	47.5	46.7	45.9	45.1	44.2
42	52.5	51.6	50.8	49.9	49.1	48.3	47.4	46.6	45.8	45.0
43	53.1	52.3	51.4	50.6	49.8	49.0	48.2	47.3	46.5	45.8
44	53.7	52.9	52.1	51.3	50.4	49.6	48.8	48.0	47.2	46.5
45	54.3	53.5	52.7	51.9	51.1	50.3	49.5	48.7	47.9	47.1
46	54.9	54.1	53.3	52.5	51.7	50.9	50.1	49.3	48.6	47.8
47	55.4	54.6	53.8	53.0	52.3	51.5	50.7	49.9	49.2	48.4
48	56.0	55.2	54.4	53.6	52.8	52.1	51.3	50.5	49.8	49.0
49	56.5	55.7	54.9	54.1	53.4	52.6	51.8	51.1	50.4	49.6
50	57.0	56.2	55.4	54.6	53.9	53.1	52.4	51.6	50.9	50.2
51	57.4	56.7	55.9	55.1	54.4	53.6	52.9	52.2	51.4	50.7
52	57.9	57.1	56.4	55.6	54.9	54.1	53.4	52.7	52.0	51.3
53	58.3	57.6	56.8	56.1	55.4	54.6	53.9	53.2	52.5	51.8
54	58.8	58.0	57.3	56.5	55.8	55.1	54.4	53.7	53.0	52.2
55	59.2	58.4	57.7	57.0	56.2	55.5	54.8	54.1	53.4	52.7
56	59.6	58.8	58.1	57.4	56.7	56.0	55.3	54.6	53.9	53.2
57	60.0	59.2	58.5	57.8	57.1	56.4	55.7	55.0	54.3	53.6

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表 2c（续）

$t-t_w$ / t	9.2	9.4	9.6	9.8	10.0	10.2	10.4	10.6	10.8	11.0
58	60.3	59.6	58.9	58.2	57.5	56.8	56.1	55.4	54.7	54.1
59	60.7	60.0	59.3	58.6	57.9	57.2	56.5	55.8	55.2	54.5
60	61.1	60.4	59.7	59.0	58.3	57.6	56.9	56.2	55.6	54.9
61	61.4	60.7	60.0	59.3	58.6	58.0	57.3	56.6	56.0	55.3
62	61.8	61.1	60.4	59.7	59.0	58.3	57.7	57.0	56.3	55.7
63	62.1	61.4	60.7	60.0	59.4	58.7	58.0	57.4	56.7	56.1
64	62.4	61.7	61.0	60.4	59.7	59.0	58.4	57.7	57.1	56.4
65	62.7	62.0	61.4	60.7	60.0	59.4	58.7	58.1	57.4	56.8
66	63.0	62.4	61.7	61.0	60.4	59.7	59.1	58.4	57.8	57.1
67	63.3	62.7	62.0	61.3	60.7	60.0	59.4	58.7	58.1	57.5
68	63.6	63.0	62.3	61.6	61.0	60.3	59.7	59.1	58.4	57.8
69	63.9	63.2	62.6	61.9	61.3	60.7	60.0	59.4	58.8	58.1
70	64.2	63.5	62.9	62.2	61.6	61.0	60.3	59.7	59.1	58.5
71	64.5	63.8	63.2	62.5	61.9	61.3	60.6	60.0	59.4	58.8
72	64.7	64.1	63.4	62.8	62.2	61.5	60.9	60.3	59.7	59.1
73	65.0	64.3	63.7	63.1	62.4	61.8	61.2	60.6	60.0	59.4
74	65.2	64.6	64.0	63.3	62.7	62.1	61.5	60.9	60.3	59.7
75	65.5	64.9	64.2	63.6	63.0	62.4	61.8	61.2	60.6	60.0
76	65.7	65.1	64.5	63.9	63.3	62.6	62.0	61.4	60.8	60.2
77	66.0	65.4	64.7	64.1	63.5	62.9	62.3	61.7	61.1	60.5
78	66.2	65.6	65.0	64.4	63.8	63.2	62.6	62.0	61.4	60.8
79	66.5	65.8	65.2	64.6	64.0	63.4	62.8	62.2	61.6	61.1
80	66.7	66.1	65.5	64.9	64.3	63.7	63.1	62.5	61.9	61.3
81	66.9	66.3	65.7	65.1	64.5	63.9	63.3	62.7	62.2	61.6
82	67.2	66.5	65.9	65.3	64.7	64.2	63.6	63.0	62.4	61.8
83	67.4	66.8	66.2	65.6	65.0	64.4	63.8	63.2	62.7	62.1
84	67.6	67.0	66.4	65.8	65.2	64.6	64.0	63.5	62.9	62.3
85	67.8	67.2	66.6	66.0	65.4	64.9	64.3	63.7	63.1	62.6
86	68.0	67.4	66.8	66.2	65.7	65.1	64.5	63.9	63.4	62.8
87	68.2	67.6	67.0	66.5	65.9	65.3	64.7	64.2	63.6	63.0
88	68.4	67.8	67.2	66.7	66.1	65.5	65.0	64.4	63.8	63.3
89	68.6	68.0	67.5	66.9	66.3	65.7	65.2	64.6	64.1	63.5
90	68.8	68.2	67.7	67.1	66.5	66.0	65.4	64.8	64.3	63.7
91	69.0	68.4	67.9	67.3	66.7	66.2	65.6	65.0	64.5	63.9
92	69.2	68.6	68.1	67.5	66.9	66.4	65.8	65.3	64.7	64.2
93	69.4	68.8	68.3	67.7	67.1	66.6	66.0	65.5	64.9	64.4
94	69.6	69.0	68.5	67.9	67.3	66.8	66.2	65.7	65.1	64.6
95	69.8	69.2	68.6	68.1	67.5	67.0	66.4	65.9	65.3	64.8
96	70.0	69.4	68.8	68.3	67.7	67.2	66.6	66.1	65.5	65.0
97	70.1	69.6	69.0	68.5	67.9	67.4	66.8	66.3	65.8	65.2
98	70.3	69.8	69.2	68.7	68.1	67.6	67.0	66.5	66.0	65.4
99	70.5	69.9	69.4	68.8	68.3	67.8	67.2	66.7	66.1	65.6
100	70.7	70.1	69.6	69.0	68.5	67.9	67.4	66.9	66.3	65.8

表 2c（续）

$t-t_w$ \ t	11.5	12.0	12.5	13.5	13.5	14.0	14.5	15.0	15.5	16.0
15										
16	0.2									
17	3.4									
18	6.3	2.9								
19	9.0	5.8	2.6							
20	11.6	8.5	5.4	2.3						
21	14.0	11.0	8.0	5.0	2.1					
22	16.3	13.4	10.5	7.6	4.8	2.0				
23	18.5	15.6	12.8	10.0	7.2	4.5	1.9			
24	20.5	17.7	14.9	12.2	9.6	7.0	4.4	1.8		
25	22.4	19.7	17.0	14.4	11.8	9.2	6.7	4.3	1.8	
26	24.2	21.5	18.9	16.4	13.8	11.4	8.9	6.5	4.2	1.8
27	25.9	23.3	20.8	18.3	15.8	13.4	11.0	8.7	6.4	4.1
28	27.5	25.0	22.5	20.0	17.6	15.3	13.0	10.7	8.5	6.3
29	29.0	26.5	24.1	21.7	19.4	17.1	14.8	12.6	10.4	8.3
30	30.4	28.0	25.7	23.3	21.0	18.8	16.6	14.4	12.3	10.2
31	31.8	29.4	27.1	24.8	22.6	20.4	18.3	16.1	14.0	12.0
32	33.1	30.8	28.5	26.3	24.1	21.9	19.8	17.8	15.7	13.7
33	34.3	32.0	29.8	27.6	25.5	23.4	21.3	19.3	17.3	15.3
34	35.5	33.3	31.1	28.9	26.8	24.8	22.7	20.8	18.8	16.9
35	36.6	34.4	32.3	30.2	28.1	26.1	24.1	22.1	20.2	18.3
36	37.6	35.5	33.4	31.3	29.3	27.3	25.4	23.5	21.6	19.7
37	38.6	36.5	34.5	32.4	30.5	28.5	26.6	24.7	22.9	21.0
38	39.6	37.5	35.5	33.5	31.6	29.6	27.7	25.9	24.1	22.3
39	40.5	38.5	36.5	34.5	32.6	30.7	28.9	27.0	25.3	23.5
40	41.4	39.4	37.4	35.5	33.6	31.7	29.9	28.1	26.4	24.6
41	42.2	40.2	38.3	36.4	34.5	32.7	30.9	29.2	27.4	25.7
42	43.0	41.1	39.2	37.3	35.5	33.7	31.9	30.1	28.4	26.8
43	43.8	41.9	40.0	38.1	36.3	34.5	32.8	31.1	29.4	27.8
44	44.5	42.6	40.8	39.0	37.2	35.4	33.7	32.0	30.3	28.7
45	45.2	43.4	41.5	39.7	38.0	36.2	34.5	32.9	31.2	29.6
46	45.9	44.1	42.3	40.5	38.7	37.0	35.3	33.7	32.1	30.5
47	46.6	44.7	43.0	41.2	39.5	37.8	36.1	34.5	32.9	31.3
48	47.2	45.4	43.6	41.9	40.2	38.5	36.9	35.3	33.7	32.1
49	47.8	46.0	44.3	42.5	40.9	39.2	37.6	36.0	34.5	32.9
50	48.4	46.6	44.9	43.2	41.5	39.9	38.3	36.7	35.2	33.7
51	48.9	47.2	45.5	43.8	42.2	40.5	39.0	37.4	35.9	34.4
52	49.5	47.8	46.1	44.4	42.8	41.2	39.6	38.1	36.6	35.1
53	50.0	48.3	46.6	45.0	43.4	41.8	40.2	38.7	37.2	35.7
54	50.5	48.8	47.2	45.5	43.9	42.4	40.8	39.3	37.8	36.4
55	51.0	49.3	47.7	46.1	44.5	42.9	41.4	39.9	38.5	37.0
56	51.5	49.8	48.2	46.6	45.0	43.5	42.0	40.5	39.0	37.6
57	52.0	50.3	48.7	47.1	45.5	44.0	42.5	41.0	39.6	38.2

表 2c（续）

t $\diagdown$ t−t_w	11.5	12.0	12.5	13.5	13.5	14.0	14.5	15.0	15.5	16.0
58	52.4	50.8	49.2	47.6	46.0	44.5	43.0	41.6	40.2	38.8
59	52.8	51.2	49.6	48.1	46.5	45.0	43.6	42.1	40.7	39.3
60	53.3	51.7	50.1	48.5	47.0	45.5	44.1	42.6	41.2	39.8
61	53.7	52.1	50.5	49.0	47.5	46.0	44.5	43.1	41.7	40.4
62	54.1	52.5	50.9	49.4	47.9	46.4	45.0	43.6	42.2	40.9
63	54.5	52.9	51.3	49.8	48.3	46.9	45.5	44.1	42.7	41.3
64	54.8	53.3	51.7	50.2	48.8	47.3	45.9	44.5	43.2	41.8
65	55.2	53.7	52.1	50.6	49.2	47.8	46.3	45.0	43.6	42.3
66	55.6	54.0	52.5	51.0	49.6	48.2	46.8	45.4	44.0	42.7
67	55.9	54.4	52.9	51.4	50.0	48.6	47.2	45.8	44.5	43.2
68	56.3	54.8	53.3	51.8	50.4	49.0	47.6	46.2	44.9	43.6
69	56.6	55.1	53.6	52.2	50.7	49.3	48.0	46.6	45.3	44.0
70	56.9	55.4	54.0	52.5	51.1	49.7	48.4	47.0	45.7	44.4
71	57.3	55.8	54.3	52.9	51.5	50.1	48.7	47.4	46.1	44.8
72	57.6	56.1	54.6	53.2	51.8	50.4	49.1	47.8	46.5	45.2
73	57.9	56.4	55.0	53.6	52.2	50.8	49.5	48.1	46.8	45.6
74	58.2	56.7	55.3	53.9	52.5	51.1	49.8	48.5	47.2	45.9
75	58.5	57.0	55.6	54.2	52.8	51.5	50.1	48.8	47.6	46.3
76	58.8	57.3	55.9	54.5	53.1	51.8	50.5	49.2	47.9	46.7
77	59.1	57.6	56.2	54.8	53.5	52.1	50.8	49.5	48.3	47.0
78	59.3	57.9	56.5	55.1	53.8	52.4	51.1	49.9	48.6	47.4
79	59.6	58.2	56.8	55.4	54.1	52.8	51.5	50.2	48.9	47.7
80	59.9	58.5	57.1	55.7	54.4	53.1	51.8	50.5	49.3	48.0
81	60.1	58.7	57.4	56.0	54.7	53.4	52.1	50.8	49.6	48.4
82	60.4	59.0	57.6	56.3	55.0	53.7	52.4	51.1	49.9	48.7
83	60.7	59.3	57.9	56.6	55.3	54.0	52.7	51.4	50.2	49.0
84	60.9	59.5	58.2	56.8	55.5	54.2	53.0	51.7	50.5	49.3
85	61.2	59.8	58.4	57.1	55.8	54.5	53.3	52.0	50.8	49.6
86	61.4	60.0	58.7	57.4	56.1	54.8	53.6	52.3	51.1	49.9
87	61.7	60.3	59.0	57.6	56.4	55.1	53.8	52.6	51.4	50.2
88	61.9	60.5	59.2	57.9	56.6	55.3	54.1	52.9	51.7	50.5
89	62.1	60.8	59.5	58.2	56.9	55.6	54.4	53.2	52.0	50.8
90	62.4	61.0	59.7	58.4	57.1	55.9	54.6	53.4	52.2	51.1
91	62.6	61.3	59.9	58.7	57.4	56.1	54.9	53.7	52.5	51.3
92	62.8	61.5	60.2	58.9	57.6	56.4	55.2	54.0	52.8	51.6
93	63.0	61.7	60.4	59.1	57.9	56.6	55.4	54.2	53.1	51.9
94	63.3	61.9	60.6	59.4	58.1	56.9	55.7	54.5	53.3	52.2
95	63.5	62.2	60.9	59.6	58.4	57.1	55.9	54.7	53.6	52.4
96	63.7	62.4	61.1	59.8	58.6	57.4	56.2	55.0	53.8	52.7
97	63.9	62.6	61.3	60.1	58.8	57.6	56.4	55.2	54.1	52.9
98	64.1	62.8	61.5	60.3	59.1	57.9	56.7	55.5	54.3	53.2
99	64.3	63.0	61.8	60.5	59.3	58.1	56.9	55.7	54.6	53.5
100	64.5	63.2	62.0	60.7	59.5	58.3	57.1	56.0	54.8	53.7

表 3a₁ 球状水银温度表相对湿度查算表

$$P = 100 \text{ kPa}, A = 0.857 \times 10^{-3} \text{℃}^{-1} (0.4 \text{ m/s})$$

$t - t_w$ / t	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0
15	100.0	98.9	97.7	96.6	95.4	94.3	93.2	92.1	90.9	89.8	88.7
16	100.0	98.9	97.8	96.7	95.6	94.5	93.4	92.3	91.2	90.1	89.1
17	100.0	98.9	97.9	96.8	95.7	94.7	93.6	92.5	91.5	90.5	89.4
18	100.0	99.0	97.9	96.9	95.8	94.8	93.8	92.8	91.8	90.7	89.7
19	100.0	99.0	98.0	97.0	96.0	95.0	94.0	93.0	92.0	91.0	90.0
20	100.0	99.0	98.0	97.1	96.1	95.1	94.1	93.2	92.2	91.3	90.3
21	100.0	99.0	98.1	97.1	96.2	95.2	94.3	93.4	92.4	91.5	90.6
22	100.0	99.1	98.1	97.2	96.3	95.4	94.5	93.5	92.6	91.7	90.8
23	100.0	99.1	98.2	97.3	96.4	95.5	94.6	93.7	92.8	91.9	91.1
24	100.0	99.1	98.2	97.4	96.5	95.6	94.7	93.9	93.0	92.1	91.3
25	100.0	99.1	98.3	97.4	96.6	95.7	94.9	94.0	93.2	92.3	91.5
26	100.0	99.2	98.3	97.5	96.6	95.8	95.0	94.1	93.3	92.5	91.7
27	100.0	99.2	98.4	97.5	96.7	95.9	95.1	94.3	93.5	92.7	91.9
28	100.0	99.2	98.4	97.6	96.8	96.0	95.2	94.4	93.6	92.8	92.1
29	100.0	99.2	98.4	97.6	96.9	96.1	95.3	94.5	93.8	93.0	92.2
30	100.0	99.2	98.5	97.7	96.9	96.2	95.4	94.6	93.9	93.1	92.4
31	100.0	99.2	98.5	97.7	97.0	96.2	95.5	94.7	94.0	93.3	92.5
32	100.0	99.3	98.5	97.8	97.0	96.3	95.6	94.8	94.1	93.4	92.7
33	100.0	99.3	98.5	97.8	97.1	96.4	95.7	94.9	94.2	93.5	92.8
34	100.0	99.3	98.6	97.9	97.1	96.4	95.7	95.0	94.3	93.6	93.0
35	100.0	99.3	98.6	97.9	97.2	96.5	95.8	95.1	94.4	93.8	93.1
36	100.0	99.3	98.6	97.9	97.2	96.6	95.9	95.2	94.5	93.9	93.2
37	100.0	99.3	98.6	98.0	97.3	96.6	96.0	95.3	94.6	94.0	93.3
38	100.0	99.3	98.7	98.0	97.3	96.7	96.0	95.4	94.7	94.1	93.4
39	100.0	99.3	98.7	98.0	97.4	96.7	96.1	95.4	94.8	94.2	93.5
40	100.0	99.4	98.7	98.1	97.4	96.8	96.1	95.5	94.9	94.3	93.6
41	100.0	99.4	98.7	98.1	97.5	96.8	96.2	95.6	95.0	94.3	93.7
42	100.0	99.4	98.7	98.1	97.5	96.9	96.3	95.6	95.0	94.4	93.8
43	100.0	99.4	98.8	98.1	97.5	96.9	96.3	95.7	95.1	94.5	93.9
44	100.0	99.4	98.8	98.2	97.6	97.0	96.4	95.8	95.2	94.6	94.0
45	100.0	99.4	98.8	98.2	97.6	97.0	96.4	95.8	95.2	94.7	94.1
46	100.0	99.4	98.8	98.2	97.6	97.1	96.5	95.9	95.3	94.7	94.2
47	100.0	99.4	98.8	98.2	97.7	97.1	96.5	95.9	95.4	94.8	94.2
48	100.0	99.4	98.8	98.3	97.7	97.1	96.6	96.0	95.4	94.9	94.3
49	100.0	99.4	98.9	98.3	97.7	97.2	96.6	96.0	95.5	94.9	94.4
50	100.0	99.4	98.9	98.3	97.8	97.2	96.6	96.1	95.5	95.0	94.4
51	100.0	99.4	98.9	98.3	97.8	97.2	96.7	96.1	95.6	95.1	94.5
52	100.0	99.4	98.9	98.4	97.8	97.3	96.7	96.2	95.6	95.1	94.6
53	100.0	99.5	98.9	98.4	97.8	97.3	96.8	96.2	95.7	95.2	94.6
54	100.0	99.5	98.9	98.4	97.9	97.3	96.8	96.3	95.7	95.2	94.7
55	100.0	99.5	98.9	98.4	97.9	97.4	96.8	96.3	95.8	95.3	94.8
56	100.0	99.5	98.9	98.4	97.9	97.4	96.9	96.4	95.8	95.3	94.8
57	100.0	99.5	99.0	98.4	97.9	97.4	96.9	96.4	95.9	95.4	94.9

表 3a₁(续)

$t-t_w$ \ t	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0
58	100.0	99.5	99.0	98.5	97.9	97.4	96.9	96.4	95.9	95.4	94.9
59	100.0	99.5	99.0	98.5	98.0	97.5	97.0	96.5	96.0	95.5	95.0
60	100.0	99.5	99.0	98.5	98.0	97.5	97.0	96.5	96.0	95.5	95.0
61	100.0	99.5	99.0	98.5	98.0	97.5	97.0	96.5	96.1	95.6	95.1
62	100.0	99.5	99.0	98.5	98.0	97.5	97.1	96.6	96.1	95.6	95.1
63	100.0	99.5	99.0	98.5	98.1	97.6	97.1	96.6	96.1	95.7	95.2
64	100.0	99.5	99.0	98.5	98.1	97.6	97.1	96.6	96.2	95.7	95.2
65	100.0	99.5	99.0	98.6	98.1	97.6	97.1	96.7	96.2	95.7	95.3
66	100.0	99.5	99.0	98.6	98.1	97.6	97.2	96.7	96.2	95.8	95.3
67	100.0	99.5	99.1	98.6	98.1	97.7	97.2	96.7	96.3	95.8	95.4
68	100.0	99.5	99.1	98.6	98.1	97.7	97.2	96.8	96.3	95.9	95.4
69	100.0	99.5	99.1	98.6	98.2	97.7	97.2	96.8	96.3	95.9	95.4
70	100.0	99.5	99.1	98.6	98.2	97.7	97.3	96.8	96.4	95.9	95.5
71	100.0	99.5	99.1	98.6	98.2	97.7	97.3	96.8	96.4	96.0	95.5
72	100.0	99.5	99.1	98.7	98.2	97.8	97.3	96.9	96.4	96.0	95.6
73	100.0	99.6	99.1	98.7	98.2	97.8	97.3	96.9	96.5	96.0	95.6
74	100.0	99.6	99.1	98.7	98.2	97.8	97.4	96.9	96.5	96.1	95.6
75	100.0	99.6	99.1	98.7	98.2	97.8	97.4	97.0	96.5	96.1	95.7
76	100.0	99.6	99.1	98.7	98.3	97.8	97.4	97.0	96.6	96.1	95.7
77	100.0	99.6	99.1	98.7	98.3	97.9	97.4	97.0	96.6	96.2	95.7
78	100.0	99.6	99.1	98.7	98.3	97.9	97.4	97.0	96.6	96.2	95.8
79	100.0	99.6	99.1	98.7	98.3	97.9	97.5	97.0	96.6	96.2	95.8
80	100.0	99.6	99.2	98.7	98.3	97.9	97.5	97.1	96.7	96.2	95.8
81	100.0	99.6	99.2	98.7	98.3	97.9	97.5	97.1	96.7	96.3	95.9
82	100.0	99.6	99.2	98.8	98.3	97.9	97.5	97.1	96.7	96.3	95.9
83	100.0	99.6	99.2	98.8	98.4	98.0	97.5	97.1	96.7	96.3	95.9
84	100.0	99.6	99.2	98.8	98.4	98.0	97.6	97.2	96.8	96.4	96.0
85	100.0	99.6	99.2	98.8	98.4	98.0	97.6	97.2	96.8	96.4	96.0
86	100.0	99.6	99.2	98.8	98.4	98.0	97.6	97.2	96.8	96.4	96.0
87	100.0	99.6	99.2	98.8	98.4	98.0	97.6	97.2	96.8	96.4	96.1
88	100.0	99.6	99.2	98.8	98.4	98.0	97.6	97.2	96.9	96.5	96.1
89	100.0	99.6	99.2	98.8	98.4	98.0	97.7	97.3	96.9	96.5	96.1
90	100.0	99.6	99.2	98.8	98.4	98.1	97.7	97.3	96.9	96.5	96.1
91	100.0	99.6	99.2	98.8	98.5	98.1	97.7	97.3	96.9	96.5	96.2
92	100.0	99.6	99.2	98.8	98.5	98.1	97.7	97.3	96.9	96.6	96.2
93	100.0	99.6	99.2	98.9	98.5	98.1	97.7	97.3	97.0	96.6	96.2
94	100.0	99.6	99.2	98.9	98.5	98.1	97.7	97.4	97.0	96.6	96.2
95	100.0	99.6	99.2	98.9	98.5	98.1	97.8	97.4	97.0	96.6	96.3
96	100.0	99.6	99.3	98.9	98.5	98.1	97.8	97.4	97.0	96.7	96.3
97	100.0	99.6	99.3	98.9	98.5	98.1	97.8	97.4	97.1	96.7	96.3
98	100.0	99.6	99.3	98.9	98.5	98.2	97.8	97.4	97.1	96.7	96.3
99	100.0	99.6	99.3	98.9	98.5	98.2	97.8	97.5	97.1	96.7	96.4
100	100.0	99.6	99.3	98.9	98.5	98.2	97.8	97.5	97.1	96.8	96.4

表 3a₁（续）

t−tₜw \ t	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0
15	87.6	86.5	85.4	84.3	83.2	82.1	81.0	79.9	78.8	77.8
16	88.0	86.9	85.9	84.8	83.7	82.7	81.6	80.6	79.5	78.5
17	88.4	87.3	86.3	85.3	84.2	83.2	82.2	81.2	80.2	79.2
18	88.7	87.7	86.7	85.7	84.7	83.7	82.7	81.7	80.8	79.8
19	89.0	88.1	87.1	86.1	85.2	84.2	83.2	82.3	81.3	80.4
20	89.4	88.4	87.5	86.5	85.6	84.6	83.7	82.8	81.9	80.9
21	89.6	88.7	87.8	86.9	86.0	85.1	84.2	83.3	82.4	81.5
22	89.9	89.0	88.1	87.2	86.3	85.5	84.6	83.7	82.8	81.9
23	90.2	89.3	88.4	87.6	86.7	85.8	85.0	84.1	83.3	82.4
24	90.4	89.6	88.7	87.9	87.0	86.2	85.3	84.5	83.7	82.9
25	90.7	89.8	89.0	88.2	87.3	86.5	85.7	84.9	84.1	83.3
26	90.9	90.1	89.2	88.4	87.6	86.8	86.0	85.2	84.5	83.7
27	91.1	90.3	89.5	88.7	87.9	87.1	86.4	85.6	84.8	84.0
28	91.3	90.5	89.7	89.0	88.2	87.4	86.7	85.9	85.1	84.4
29	91.5	90.7	89.9	89.2	88.4	87.7	86.9	86.2	85.5	84.7
30	91.6	90.9	90.1	89.4	88.7	87.9	87.2	86.5	85.8	85.0
31	91.8	91.1	90.3	89.6	88.9	88.2	87.5	86.8	86.0	85.3
32	92.0	91.2	90.5	89.8	89.1	88.4	87.7	87.0	86.3	85.6
33	92.1	91.4	90.7	90.0	89.3	88.6	87.9	87.3	86.6	85.9
34	92.3	91.6	90.9	90.2	89.5	88.8	88.2	87.5	86.8	86.2
35	92.4	91.7	91.0	90.4	89.7	89.0	88.4	87.7	87.1	86.4
36	92.5	91.9	91.2	90.5	89.9	89.2	88.6	87.9	87.3	86.6
37	92.7	92.0	91.4	90.7	90.1	89.4	88.8	88.1	87.5	86.9
38	92.8	92.1	91.5	90.9	90.2	89.6	89.0	88.3	87.7	87.1
39	92.9	92.3	91.6	91.0	90.4	89.8	89.1	88.5	87.9	87.3
40	93.0	92.4	91.8	91.1	90.5	89.9	89.3	88.7	88.1	87.5
41	93.1	92.5	91.9	91.3	90.7	90.1	89.5	88.9	88.3	87.7
42	93.2	92.6	92.0	91.4	90.8	90.2	89.6	89.0	88.5	87.9
43	93.3	92.7	92.1	91.5	90.9	90.4	89.8	89.2	88.6	88.0
44	93.4	92.8	92.2	91.7	91.1	90.5	89.9	89.3	88.8	88.2
45	93.5	92.9	92.3	91.8	91.2	90.6	90.1	89.5	88.9	88.4
46	93.6	93.0	92.4	91.9	91.3	90.8	90.2	89.6	89.1	88.5
47	93.7	93.1	92.5	92.0	91.4	90.9	90.3	89.8	89.2	88.7
48	93.7	93.2	92.6	92.1	91.5	91.0	90.4	89.9	89.4	88.8
49	93.8	93.3	92.7	92.2	91.6	91.1	90.6	90.0	89.5	89.0
50	93.9	93.4	92.8	92.3	91.7	91.2	90.7	90.2	89.6	89.1
51	94.0	93.4	92.9	92.4	91.8	91.3	90.8	90.3	89.7	89.2
52	94.0	93.5	93.0	92.5	91.9	91.4	90.9	90.4	89.9	89.4
53	94.1	93.6	93.1	92.6	92.0	91.5	91.0	90.5	90.0	89.5
54	94.2	93.7	93.2	92.6	92.1	91.6	91.1	90.6	90.1	89.6
55	94.2	93.7	93.2	92.7	92.2	91.7	91.2	90.7	90.2	89.7
56	94.3	93.8	93.3	92.8	92.3	91.8	91.3	90.8	90.3	89.8
57	94.4	93.9	93.4	92.9	92.4	91.9	91.4	90.9	90.4	89.9

表 3a₁（续）

t－tw t	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0
58	94.4	93.9	93.4	93.0	92.5	92.0	91.5	91.0	90.5	90.0
59	94.5	94.0	93.5	93.0	92.5	92.1	91.6	91.1	90.6	90.1
60	94.5	94.1	93.6	93.1	92.6	92.1	91.7	91.2	90.7	90.2
61	94.6	94.1	93.6	93.2	92.7	92.2	91.7	91.3	90.8	90.3
62	94.7	94.2	93.7	93.2	92.8	92.3	91.8	91.4	90.9	90.4
63	94.7	94.2	93.8	93.3	92.8	92.4	91.9	91.4	91.0	90.5
64	94.8	94.3	93.8	93.4	92.9	92.4	92.0	91.5	91.1	90.6
65	94.8	94.3	93.9	93.4	93.0	92.5	92.1	91.6	91.2	90.7
66	94.9	94.4	93.9	93.5	93.0	92.6	92.1	91.7	91.2	90.8
67	94.9	94.4	94.0	93.5	93.1	92.6	92.2	91.8	91.3	90.9
68	94.9	94.5	94.0	93.6	93.2	92.7	92.3	91.8	91.4	91.0
69	95.0	94.5	94.1	93.7	93.2	92.8	92.3	91.9	91.5	91.0
70	95.0	94.6	94.2	93.7	93.3	92.8	92.4	92.0	91.5	91.1
71	95.1	94.6	94.2	93.8	93.3	92.9	92.5	92.0	91.6	91.2
72	95.1	94.7	94.3	93.8	93.4	93.0	92.5	92.1	91.7	91.3
73	95.2	94.7	94.3	93.9	93.4	93.0	92.6	92.2	91.8	91.3
74	95.2	94.8	94.3	93.9	93.5	93.1	92.7	92.2	91.8	91.4
75	95.2	94.8	94.4	94.0	93.6	93.1	92.7	92.3	91.9	91.5
76	95.3	94.9	94.4	94.0	93.6	93.2	92.8	92.4	92.0	91.5
77	95.3	94.9	94.5	94.1	93.7	93.2	92.8	92.4	92.0	91.6
78	95.4	94.9	94.5	94.1	93.7	93.3	92.9	92.5	92.1	91.7
79	95.4	95.0	94.6	94.2	93.8	93.4	92.9	92.5	92.1	91.7
80	95.4	95.0	94.6	94.2	93.8	93.4	93.0	92.6	92.2	91.8
81	95.5	95.1	94.7	94.3	93.9	93.5	93.1	92.7	92.3	91.9
82	95.5	95.1	94.7	94.3	93.9	93.5	93.1	92.7	92.3	91.9
83	95.5	95.1	94.7	94.3	93.9	93.6	93.2	92.8	92.4	92.0
84	95.6	95.2	94.8	94.4	94.0	93.6	93.2	92.8	92.4	92.1
85	95.6	95.2	94.8	94.4	94.0	93.7	93.3	92.9	92.5	92.1
86	95.6	95.2	94.9	94.5	94.1	93.7	93.3	92.9	92.6	92.2
87	95.7	95.3	94.9	94.5	94.1	93.7	93.4	93.0	92.6	92.2
88	95.7	95.3	94.9	94.5	94.2	93.8	93.4	93.0	92.7	92.3
89	95.7	95.3	95.0	94.6	94.2	93.8	93.5	93.1	92.7	92.3
90	95.8	95.4	95.0	94.6	94.3	93.9	93.5	93.1	92.8	92.4
91	95.8	95.4	95.0	94.7	94.3	93.9	93.6	93.2	92.8	92.4
92	95.8	95.4	95.1	94.7	94.3	94.0	93.6	93.2	92.9	92.5
93	95.8	95.5	95.1	94.7	94.4	94.0	93.6	93.3	92.9	92.6
94	95.9	95.5	95.1	94.8	94.4	94.0	93.7	93.3	93.0	92.6
95	95.9	95.5	95.2	94.8	94.5	94.1	93.7	93.4	93.0	92.7
96	95.9	95.6	95.2	94.8	94.5	94.1	93.8	93.4	93.1	92.7
97	96.0	95.6	95.2	94.9	94.5	94.2	93.8	93.5	93.1	92.8
98	96.0	95.6	95.3	94.9	94.6	94.2	93.9	93.5	93.2	92.8
99	96.0	95.7	95.3	95.0	94.6	94.2	93.9	93.5	93.2	92.9
100	96.0	95.7	95.3	95.0	94.6	94.3	93.9	93.6	93.2	92.9

表 3a₁（续）

t-tw / t	2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9	3.0
15	76.7	75.6	74.5	73.5	72.4	71.4	70.3	69.3	68.2	67.2
16	77.4	76.4	75.4	74.3	73.3	72.3	71.3	70.2	69.2	68.2
17	78.1	77.1	76.1	75.1	74.1	73.2	72.2	71.2	70.2	69.2
18	78.8	77.8	76.9	75.9	74.9	74.0	73.0	72.1	71.1	70.2
19	79.4	78.5	77.5	76.6	75.7	74.7	73.8	72.9	72.0	71.0
20	80.0	79.1	78.2	77.3	76.4	75.5	74.5	73.7	72.8	71.9
21	80.6	79.7	78.8	77.9	77.0	76.1	75.3	74.4	73.5	72.6
22	81.1	80.2	79.3	78.5	77.6	76.8	75.9	75.1	74.2	73.4
23	81.6	80.7	79.9	79.0	78.2	77.4	76.5	75.7	74.9	74.1
24	82.0	81.2	80.4	79.6	78.7	77.9	77.1	76.3	75.5	74.7
25	82.5	81.7	80.9	80.1	79.3	78.5	77.7	76.9	76.1	75.3
26	82.9	82.1	81.3	80.5	79.8	79.0	78.2	77.4	76.7	75.9
27	83.3	82.5	81.7	81.0	80.2	79.5	78.7	78.0	77.2	76.5
28	83.6	82.9	82.1	81.4	80.7	79.9	79.2	78.4	77.7	77.0
29	84.0	83.3	82.5	81.8	81.1	80.3	79.6	78.9	78.2	77.5
30	84.3	83.6	82.9	82.2	81.5	80.8	80.1	79.4	78.7	78.0
31	84.6	83.9	83.2	82.5	81.8	81.1	80.5	79.8	79.1	78.4
32	84.9	84.2	83.6	82.9	82.2	81.5	80.8	80.2	79.5	78.8
33	85.2	84.5	83.9	83.2	82.5	81.9	81.2	80.5	79.9	79.2
34	85.5	84.8	84.2	83.5	82.9	82.2	81.6	80.9	80.3	79.6
35	85.8	85.1	84.5	83.8	83.2	82.5	81.9	81.2	80.6	80.0
36	86.0	85.4	84.7	84.1	83.5	82.8	82.2	81.6	81.0	80.3
37	86.2	85.6	85.0	84.4	83.7	83.1	82.5	81.9	81.3	80.7
38	86.5	85.8	85.2	84.6	84.0	83.4	82.8	82.2	81.6	81.0
39	86.7	86.1	85.5	84.9	84.3	83.7	83.1	82.5	81.9	81.3
40	86.9	86.3	85.7	85.1	84.5	83.9	83.3	82.7	82.2	81.6
41	87.1	86.5	85.9	85.3	84.7	84.2	83.6	83.0	82.4	81.9
42	87.3	86.7	86.1	85.5	85.0	84.4	83.8	83.3	82.7	82.1
43	87.5	86.9	86.3	85.8	85.2	84.6	84.1	83.5	82.9	82.4
44	87.6	87.1	86.5	86.0	85.4	84.8	84.3	83.7	83.2	82.6
45	87.8	87.3	86.7	86.1	85.6	85.1	84.5	84.0	83.4	82.9
46	88.0	87.4	86.9	86.3	85.8	85.3	84.7	84.2	83.6	83.1
47	88.1	87.6	87.1	86.5	86.0	85.4	84.9	84.4	83.9	83.3
48	88.3	87.8	87.2	86.7	86.2	85.6	85.1	84.6	84.1	83.5
49	88.4	87.9	87.4	86.9	86.3	85.8	85.3	84.8	84.3	83.7
50	88.6	88.1	87.5	87.0	86.5	86.0	85.5	85.0	84.5	83.9
51	88.7	88.2	87.7	87.2	86.7	86.2	85.6	85.1	84.6	84.1
52	88.8	88.3	87.8	87.3	86.8	86.3	85.8	85.3	84.8	84.3
53	89.0	88.5	88.0	87.5	87.0	86.5	86.0	85.5	85.0	84.5
54	89.1	88.6	88.1	87.6	87.1	86.6	86.1	85.6	85.2	84.7
55	89.2	88.7	88.2	87.7	87.3	86.8	86.3	85.8	85.3	84.8
56	89.3	88.8	88.4	87.9	87.4	86.9	86.4	86.0	85.5	85.0
57	89.4	89.0	88.5	88.0	87.5	87.1	86.6	86.1	85.6	85.2

表 3a₁（续）

$t-t_w$ / t	2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9	3.0
58	89.6	89.1	88.6	88.1	87.7	87.2	86.7	86.3	85.8	85.3
59	89.7	89.2	88.7	88.3	87.8	87.3	86.9	86.4	85.9	85.5
60	89.8	89.3	88.8	88.4	87.9	87.4	87.0	86.5	86.1	85.6
61	89.9	89.4	88.9	88.5	88.0	87.6	87.1	86.7	86.2	85.8
62	90.0	89.5	89.1	88.6	88.1	87.7	87.2	86.8	86.3	85.9
63	90.1	89.6	89.2	88.7	88.3	87.8	87.4	86.9	86.5	86.0
64	90.2	89.7	89.3	88.8	88.4	87.9	87.5	87.0	86.6	86.2
65	90.3	89.8	89.4	88.9	88.5	88.0	87.6	87.2	86.7	86.3
66	90.3	89.9	89.5	89.0	88.6	88.1	87.7	87.3	86.8	86.4
67	90.4	90.0	89.6	89.1	88.7	88.3	87.8	87.4	87.0	86.5
68	90.5	90.1	89.6	89.2	88.8	88.4	87.9	87.5	87.1	86.7
69	90.6	90.2	89.7	89.3	88.9	88.5	88.0	87.6	87.2	86.8
70	90.7	90.3	89.8	89.4	89.0	88.6	88.1	87.7	87.3	86.9
71	90.8	90.3	89.9	89.5	89.1	88.7	88.2	87.8	87.4	87.0
72	90.8	90.4	90.0	89.6	89.2	88.8	88.3	87.9	87.5	87.1
73	90.9	90.5	90.1	89.7	89.3	88.8	88.4	88.0	87.6	87.2
74	91.0	90.6	90.2	89.8	89.3	88.9	88.5	88.1	87.7	87.3
75	91.1	90.7	90.2	89.8	89.4	89.0	88.6	88.2	87.8	87.4
76	91.1	90.7	90.3	89.9	89.5	89.1	88.7	88.3	87.9	87.5
77	91.2	90.8	90.4	90.0	89.6	89.2	88.8	88.4	88.0	87.6
78	91.3	90.9	90.5	90.1	89.7	89.3	88.9	88.5	88.1	87.7
79	91.3	90.9	90.6	90.2	89.8	89.4	89.0	88.6	88.2	87.8
80	91.4	91.0	90.6	90.2	89.8	89.5	89.1	88.7	88.3	87.9
81	91.5	91.1	90.7	90.3	89.9	89.5	89.2	88.8	88.4	88.0
82	91.5	91.2	90.8	90.4	90.0	89.6	89.2	88.9	88.5	88.1
83	91.6	91.2	90.8	90.5	90.1	89.7	89.3	88.9	88.6	88.2
84	91.7	91.3	90.9	90.5	90.1	89.8	89.4	89.0	88.6	88.3
85	91.7	91.4	91.0	90.6	90.2	89.8	89.5	89.1	88.7	88.4
86	91.8	91.4	91.0	90.7	90.3	89.9	89.5	89.2	88.8	88.4
87	91.9	91.5	91.1	90.7	90.4	90.0	89.6	89.3	88.9	88.5
88	91.9	91.5	91.2	90.8	90.4	90.1	89.7	89.3	89.0	88.6
89	92.0	91.6	91.2	90.9	90.5	90.1	89.8	89.4	89.0	88.7
90	92.0	91.7	91.3	90.9	90.6	90.2	89.8	89.5	89.1	88.8
91	92.1	91.7	91.4	91.0	90.6	90.3	89.9	89.6	89.2	88.8
92	92.1	91.8	91.4	91.1	90.7	90.3	90.0	89.6	89.3	88.9
93	92.2	91.8	91.5	91.1	90.8	90.4	90.1	89.7	89.3	89.0
94	92.2	91.9	91.5	91.2	90.8	90.5	90.1	89.8	89.4	89.1
95	92.3	91.9	91.6	91.2	90.9	90.5	90.2	89.8	89.5	89.1
96	92.4	92.0	91.6	91.3	90.9	90.6	90.3	89.9	89.6	89.2
97	92.4	92.1	91.7	91.4	91.0	90.7	90.3	90.0	89.6	89.3
98	92.5	92.1	91.8	91.4	91.1	90.7	90.4	90.0	89.7	89.4
99	92.5	92.2	91.8	91.5	91.1	90.8	90.4	90.1	89.8	89.4
100	92.6	92.2	91.9	91.5	91.2	90.8	90.5	90.2	89.8	89.5

表 3a₁（续）

$t-t_w$ t	3.1	3.2	3.3	3.4	3.5	3.6	3.7	3.8	3.9	4.0
15	66.1	65.1	64.0	63.0	62.0	60.9	59.9	58.9	57.9	56.9
16	67.2	66.2	65.2	64.2	63.2	62.2	61.2	60.2	59.2	58.3
17	68.2	67.3	66.3	65.3	64.4	63.4	62.4	61.5	60.5	59.6
18	69.2	68.3	67.3	66.4	65.5	64.5	63.6	62.7	61.7	60.8
19	70.1	69.2	68.3	67.4	66.5	65.6	64.7	63.8	62.9	62.0
20	71.0	70.1	69.2	68.3	67.4	66.6	65.7	64.8	63.9	63.1
21	71.8	70.9	70.1	69.2	68.3	67.5	66.6	65.8	65.0	64.1
22	72.5	71.7	70.9	70.0	69.2	68.4	67.5	66.7	65.9	65.1
23	73.2	72.4	71.6	70.8	70.0	69.2	68.4	67.6	66.8	66.0
24	73.9	73.1	72.3	71.5	70.8	70.0	69.2	68.4	67.6	66.9
25	74.6	73.8	73.0	72.2	71.5	70.7	69.9	69.2	68.4	67.7
26	75.2	74.4	73.6	72.9	72.1	71.4	70.7	69.9	69.2	68.4
27	75.7	75.0	74.3	73.5	72.8	72.1	71.3	70.6	69.9	69.2
28	76.3	75.5	74.8	74.1	73.4	72.7	72.0	71.3	70.6	69.9
29	76.8	76.1	75.4	74.7	74.0	73.3	72.6	71.9	71.2	70.5
30	77.3	76.6	75.9	75.2	74.5	73.8	73.2	72.5	71.8	71.1 ·
31	77.7	77.0	76.4	75.7	75.0	74.4	73.7	73.0	72.4	71.7
32	78.2	77.5	76.8	76.2	75.5	74.9	74.2	73.6	72.9	72.3
33	78.6	77.9	77.3	76.6	76.0	75.3	74.7	74.1	73.4	72.8
34	79.0	78.3	77.7	77.1	76.4	75.8	75.2	74.6	73.9	73.3
35	79.4	78.7	78.1	77.5	76.9	76.2	75.6	75.0	74.4	73.8
36	79.7	79.1	78.5	77.9	77.3	76.7	76.1	75.5	74.9	74.3
37	80.1	79.5	78.9	78.3	77.7	77.1	76.5	75.9	75.3	74.7
38	80.4	79.8	79.2	78.6	78.0	77.4	76.9	76.3	75.7	75.1
39	80.7	80.1	79.5	79.0	78.4	77.8	77.2	76.7	76.1	75.5
40	81.0	80.4	79.9	79.3	78.7	78.1	77.6	77.0	76.5	75.9
41	81.3	80.7	80.2	79.6	79.0	78.5	77.9	77.4	76.8	76.3
42	81.6	81.0	80.5	79.9	79.3	78.8	78.2	77.7	77.2	76.6
43	81.8	81.3	80.7	80.2	79.6	79.1	78.6	78.0	77.5	77.0
44	82.1	81.6	81.0	80.5	79.9	79.4	78.9	78.3	77.8	77.3
45	82.3	81.8	81.3	80.7	80.2	79.7	79.2	78.6	78.1	77.6
46	82.6	82.0	81.5	81.0	80.5	80.0	79.4	78.9	78.4	77.9
47	82.8	82.3	81.8	81.2	80.7	80.2	79.7	79.2	78.7	78.2
48	83.0	82.5	82.0	81.5	81.0	80.5	80.0	79.5	79.0	78.5
49	83.2	82.7	82.2	81.7	81.2	80.7	80.2	79.7	79.2	78.7
50	83.4	82.9	82.4	81.9	81.4	80.9	80.5	80.0	79.5	79.0
51	83.6	83.1	82.6	82.2	81.7	81.2	80.7	80.2	79.7	79.2
52	83.8	83.3	82.9	82.4	81.9	81.4	80.9	80.4	80.0	79.5
53	84.0	83.5	83.0	82.6	82.1	81.6	81.1	80.7	80.2	79.7
54	84.2	83.7	83.2	82.8	82.3	81.8	81.3	80.9	80.4	79.9
55	84.4	83.9	83.4	83.0	82.5	82.0	81.5	81.1	80.6	80.2
56	84.5	84.1	83.6	83.1	82.7	82.2	81.7	81.3	80.8	80.4
57	84.7	84.2	83.8	83.3	82.9	82.4	81.9	81.5	81.0	80.6

表 3a₁（续）

t－t_w / t	3.1	3.2	3.3	3.4	3.5	3.6	3.7	3.8	3.9	4.0
58	84.9	84.4	83.9	83.5	83.0	82.6	82.1	81.7	81.2	80.8
59	85.0	84.6	84.1	83.7	83.2	82.8	82.3	81.9	81.4	81.0
60	85.2	84.7	84.3	83.8	83.4	82.9	82.5	82.0	81.6	81.2
61	85.3	84.9	84.4	84.0	83.5	83.1	82.7	82.2	81.8	81.4
62	85.5	85.0	84.6	84.1	83.7	83.3	82.8'	82.4	82.0	81.5
63	85.6	85.2	84.7	84.3	83.9	83.4	83.0	82.6	82.1	81.7
64	85.7	85.3	84.9	84.4	84.0	83.6	83.1	82.7	82.3	81.9
65	85.9	85.4	85.0	84.6	84.1	83.7	83.3	82.9	82.5	82.0
66	86.0	85.6	85.1	84.7	84.3	83.9	83.5	83.0	82.6	82.2
67	86.1	85.7	85.3	84.9	84.4	84.0	83.6	83.2	82.8	82.4
68	86.2	85.8	85.4	85.0	84.6	84.2	83.7	83.3	82.9	82.5
69	86.4	85.9	85.5	85.1	84.7	84.3	83.9	83.5	83.1	82.7
70	86.5	86.1	85.7	85.2	84.8	84.4	84.0	83.6	83.2	82.8
71	86.6	86.2	85.8	85.4	85.0	84.6	84.2	83.8	83.4	83.0
72	86.7	86.3	85.9	85.5	85.1	84.7	84.3	83.9	83.5	83.1
73	86.8	86.4	86.0	85.6	85.2	84.8	84.4	84.0	83.6	83.2
74	86.9	86.5	86.1	85.7	85.3	84.9	84.5	84.2	83.8	83.4
75	87.0	86.6	86.2	85.8	85.5	85.1	84.7	84.3	83.9	83.5
76	87.1	86.7	86.3	86.0	85.6	85.2	84.8	84.4	84.0	83.6
77	87.2	86.8	86.5	86.1	85.7	85.3	84.9	84.5	84.2	83.8
78	87.3	86.9	86.6	86.2	85.8	85.4	85.0	84.7	84.3	83.9
79	87.4	87.0	86.7	86.3	85.9	85.5	85.1	84.8	84.4	84.0
80	87.5	87.1	86.8	86.4	86.0	85.6	85.3	84.9	84.5	84.1
81	87.6	87.2	86.9	86.5	86.1	85.7	85.4	85.0	84.6	84.3
82	87.7	87.3	87.0	86.6	86.2	85.8	85.5	85.1	84.7	84.4
83	87.8	87.4	87.1	86.7	86.3	86.0	85.6	85.2	84.9	84.5
84	87.9	87.5	87.2	86.8	86.4	86.1	85.7	85.3	85.0	84.6
85	88.0	87.6	87.3	86.9	86.5	86.2	85.8	85.4	85.1	84.7
86	88.1	87.7	87.3	87.0	86.6	86.3	85.9	85.5	85.2	84.8
87	88.2	87.8	87.4	87.1	86.7	86.4	86.0	85.6	85.3	84.9
88	88.2	87.9	87.5	87.2	86.8	86.5	86.1	85.7	85.4	85.0
89	88.3	88.0	87.6	87.3	86.9	86.5	86.2	85.8	85.5	85.1
90	88.4	88.1	87.7	87.3	87.0	86.6	86.3	85.9	85.6	85.2
91	88.5	88.1	87.8	87.4	87.1	86.7	86.4	86.0	85.7	85.4
92	88.6	88.2	87.9	87.5	87.2	86.8	86.5	86.1	85.8	85.5
93	88.6	88.3	88.0	87.6	87.3	86.9	86.6	86.2	85.9	85.5
94	88.7	88.4	88.0	87.7	87.3	87.0	86.7	86.3	86.0	85.6
95	88.8	88.5	88.1	87.8	87.4	87.1	86.8	86.4	86.1	85.7
96	88.9	88.5	88.2	87.9	87.5	87.2	86.8	86.5	86.2	85.8
97	89.0	88.6	88.3	87.9	87.6	87.3	86.9	86.6	86.3	85.9
98	89.0	88.7	88.3	88.0	87.7	87.3	87.0	86.7	86.4	86.0
99	89.1	88.8	88.4	88.1	87.8	87.4	87.1	86.8	86.4	86.1
100	89.2	88.8	88.5	88.2	87.8	87.5	87.2	86.9	86.5	86.2

表 3a₁(续)

$t-t_w$ / t	4.1	4.2	4.3	4.4	4.5	4.6	4.7	4.8	4.9	5.0
15	55.8	54.8	53.8	52.8	51.8	50.8	49.8	48.8	47.8	46.9
16	57.3	56.3	55.3	54.4	53.4	52.4	51.5	50.5	49.6	48.6
17	58.6	57.7	56.8	55.8	54.9	53.9	53.0	52.1	51.2	50.2
18	59.9	59.0	58.1	57.2	56.3	55.4	54.5	53.6	52.7	51.8
19	61.1	60.2	59.3	58.5	57.6	56.7	55.8	55.0	54.1	53.2
20	62.2	61.4	60.5	59.7	58.8	58.0	57.1	56.3	55.4	54.6
21	63.3	62.4	61.6	60.8	60.0	59.1	58.3	57.5	56.7	55.9
22	64.3	63.5	62.6	61.8	61.0	60.2	59.4	58.6	57.9	57.1
23	65.2	64.4	63.6	62.8	62.1	61.3	60.5	59.7	59.0	58.2
24	66.1	65.3	64.6	63.8	63.0	62.3	61.5	60.8	60.0	59.3
25	66.9	66.2	65.4	64.7	63.9	63.2	62.5	61.7	61.0	60.3
26	67.7	67.0	66.2	65.5	64.8	64.1	63.4	62.6	61.9	61.2
27	68.5	67.7	67.0	66.3	65.6	64.9	64.2	63.5	62.8	62.1
28	69.2	68.5	67.8	67.1	66.4	65.7	65.0	64.3	63.6	63.0
29	69.8	69.1	68.5	67.8	67.1	66.4	65.8	65.1	64.4	63.8
30	70.5	69.8	69.1	68.5	67.8	67.1	66.5	65.8	65.2	64.5
31	71.1	70.4	69.8	69.1	68.5	67.8	67.2	66.5	65.9	65.3
32	71.6	71.0	70.4	69.7	69.1	68.5	67.8	67.2	66.6	66.0
33	72.2	71.5	70.9	70.3	69.7	69.1	68.4	67.8	67.2	66.6
34	72.7	72.1	71.5	70.9	70.2	69.6	69.0	68.4	67.8	67.2
35	73.2	72.6	72.0	71.4	70.8	70.2	69.6	69.0	68.4	67.8
36	73.7	73.1	72.5	71.9	71.3	70.7	70.1	69.5	69.0	68.4
37	74.1	73.5	72.9	72.4	71.8	71.2	70.6	70.1	69.5	68.9
38	74.5	74.0	73.4	72.8	72.3	71.7	71.1	70.6	70.0	69.5
39	74.9	74.4	73.8	73.3	72.7	72.1	71.6	71.0	70.5	69.9
40	75.3	74.8	74.2	73.7	73.1	72.6	72.0	71.5	71.0	70.4
41	75.7	75.2	74.6	74.1	73.5	73.0	72.5	71.9	71.4	70.9
42	76.1	75.5	75.0	74.5	73.9	73.4	72.9	72.3	71.8	71.3
43	76.4	75.9	75.4	74.8	74.3	73.8	73.3	72.7	72.2	71.7
44	76.8	76.2	75.7	75.2	74.7	74.2	73.6	73.1	72.6	72.1
45	77.1	76.6	76.0	75.5	75.0	74.5	74.0	73.5	73.0	72.5
46	77.4	76.9	76.4	75.9	75.4	74.9	74.4	73.9	73.4	72.9
47	77.7	77.2	76.7	76.2	75.7	75.2	74.7	74.2	73.7	73.2
48	78.0	77.5	77.0	76.5	76.0	75.5	75.0	74.5	74.0	73.6
49	78.2	77.7	77.3	76.8	76.3	75.8	75.3	74.8	74.4	73.9
50	78.5	78.0	77.5	77.1	76.6	76.1	75.6	75.1	74.7	74.2
51	78.8	78.3	77.8	77.3	76.9	76.4	75.9	75.4	75.0	74.5
52	79.0	78.5	78.1	77.6	77.1	76.7	76.2	75.7	75.3	74.8
53	79.2	78.8	78.3	77.8	77.4	76.9	76.5	76.0	75.6	75.1
54	79.5	79.0	78.6	78.1	77.6	77.2	76.7	76.3	75.8	75.4
55	79.7	79.2	78.8	78.3	77.9	77.4	77.0	76.5	76.1	75.6
56	79.9	79.5	79.0	78.6	78.1	77.7	77.2	76.8	76.3	75.9
57	80.1	79.7	79.2	78.8	78.3	77.9	77.5	77.0	76.6	76.2

表 3a₁(续)

$t-t_w$ \ t	4.1	4.2	4.3	4.4	4.5	4.6	4.7	4.8	4.9	5.0
58	80.3	79.9	79.5	79.0	78.6	78.1	77.7	77.3	76.8	76.4
59	80.5	80.1	79.7	79.2	78.8	78.4	77.9	77.5	77.1	76.6
60	80.7	80.3	79.9	79.4	79.0	78.6	78.1	77.7	77.3	76.9
61	80.9	80.5	80.1	79.6	79.2	78.8	78.4	77.9	77.5	77.1
62	81.1	80.7	80.2	79.8	79.4	79.0	78.6	78.1	77.7	77.3
63	81.3	80.9	80.4	80.0	79.6	79.2	78.8	78.4	77.9	77.5
64	81.5	81.0	80.6	80.2	79.8	79.4	79.0	78.6	78.1	77.7
65	81.6	81.2	80.8	80.4	80.0	79.6	79.2	78.7	78.3	77.9
66	81.8	81.4	81.0	80.6	80.2	79.7	79.3	78.9	78.5	78.1
67	82.0	81.5	81.1	80.7	80.3	79.9	79.5	79.1	78.7	78.3
68	82.1	81.7	81.3	80.9	80.5	80.1	79.7	79.3	78.9	78.5
69	82.3	81.9	81.5	81.1	80.7	80.3	79.9	79.5	79.1	78.7
70	82.4	82.0	81.6	81.2	80.8	80.4	80.0	79.7	79.3	78.9
71	82.6	82.2	81.8	81.4	81.0	80.6	80.2	79.8	79.4	79.1
72	82.7	82.3	81.9	81.5	81.2	80.8	80.4	80.0	79.6	79.2
73	82.9	82.5	82.1	81.7	81.3	80.9	80.5	80.2	79.8	79.4
74	83.0	82.6	82.2	81.8	81.5	81.1	80.7	80.3	79.9	79.6
75	83.1	82.7	82.4	82.0	81.6	81.2	80.9	80.5	80.1	79.7
76	83.3	82.9	82.5	82.1	81.7	81.4	81.0	80.6	80.3	79.9
77	83.4	83.0	82.6	82.3	81.9	81.5	81.1	80.8	80.4	80.0
78	83.5	83.1	82.8	82.4	82.0	81.7	81.3	80.9	80.6	80.2
79	83.6	83.3	82.9	82.5	82.2	81.8	81.4	81.1	80.7	80.3
80	83.8	83.4	83.0	82.7	82.3	81.9	81.6	81.2	80.9	80.5
81	83.9	83.5	83.2	82.8	82.4	82.1	81.7	81.4	81.0	80.6
82	84.0	83.6	83.3	82.9	82.6	82.2	81.8	81.5	81.1	80.8
83	84.1	83.8	83.4	83.1	82.7	82.3	82.0	81.6	81.3	80.9
84	84.2	83.9	83.5	83.2	82.8	82.5	82.1	81.8	81.4	81.1
85	84.4	84.0	83.6	83.3	82.9	82.6	82.2	81.9	81.5	81.2
86	84.5	84.1	83.8	83.4	83.1	82.7	82.4	82.0	81.7	81.3
87	84.6	84.2	83.9	83.5	83.2	82.8	82.5	82.1	81.8	81.5
88	84.7	84.3	84.0	83.6	83.3	83.0	82.6	82.3	81.9	81.6
89	84.8	84.5	84.1	83.8	83.4	83.1	82.7	82.4	82.1	81.7
90	84.9	84.6	84.2	83.9	83.5	83.2	82.9	82.5	82.2	81.8
91	85.0	84.7	84.3	84.0	83.6	83.3	83.0	82.6	82.3	82.0
92	85.1	84.8	84.4	84.1	83.8	83.4	83.1	82.7	82.4	82.1
93	85.2	84.9	84.5	84.2	83.9	83.5	83.2	82.9	82.5	82.2
94	85.3	85.0	84.6	84.3	84.0	83.6	83.3	83.0	82.7	82.3
95	85.4	85.1	84.7	84.4	84.1	83.7	83.4	83.1	82.8	82.4
96	85.5	85.2	84.8	84.5	84.2	83.9	83.5	83.2	82.9	82.6
97	85.6	85.3	84.9	84.6	84.3	84.0	83.6	83.3	83.0	82.7
98	85.7	85.4	85.0	84.7	84.4	84.1	83.7	83.4	83.1	82.8
99	85.8	85.5	85.1	84.8	84.5	84.2	83.8	83.5	83.2	82.9
100	85.9	85.6	85.2	84.9	84.6	84.3	84.0	83.6	83.3	83.0

表 3a₁（续）

t ＼ t－tw	5.2	5.4	5.6	5.8	6.0	6.2	6.4	6.6	6.8	7.0
15	44.9	42.9	41.0	39.1	37.1	35.2	33.3	31.4	29.6	27.7
16	46.7	44.8	42.9	41.1	39.2	37.4	35.6	33.7	31.9	30.1
17	48.4	46.6	44.8	43.0	41.2	39.4	37.6	35.9	34.1	32.4
18	50.0	48.2	46.5	44.8	43.0	41.3	39.6	37.9	36.2	34.5
19	51.5	49.8	48.1	46.4	44.7	43.1	41.4	39.8	38.1	36.5
20	52.9	51.3	49.6	48.0	46.4	44.7	43.1	41.5	39.9	38.4
21	54.2	52.6	51.0	49.4	47.9	46.3	44.7	43.2	41.7	40.1
22	55.5	53.9	52.4	50.8	49.3	47.8	46.3	44.8	43.3	41.8
23	56.7	55.1	53.6	52.1	50.6	49.2	47.7	46.2	44.8	43.3
24	57.8	56.3	54.8	53.4	51.9	50.5	49.0	47.6	46.2	44.8
25	58.8	57.4	55.9	54.5	53.1	51.7	50.3	48.9	47.6	46.2
26	59.8	58.4	57.0	55.6	54.2	52.9	51.5	50.2	48.8	47.5
27	60.7	59.4	58.0	56.7	55.3	54.0	52.7	51.3	50.0	48.7
28	61.6	60.3	59.0	57.6	56.3	55.0	53.7	52.4	51.2	49.9
29	62.5	61.2	59.9	58.6	57.3	56.0	54.7	53.5	52.2	51.0
30	63.3	62.0	60.7	59.4	58.2	56.9	55.7	54.5	53.3	52.1
31	64.0	62.8	61.5	60.3	59.0	57.8	56.6	55.4	54.2	53.0
32	64.7	63.5	62.3	61.1	59.9	58.7	57.5	56.3	55.1	54.0
33	65.4	64.2	63.0	61.8	60.6	59.5	58.3	57.2	56.0	54.9
34	66.0	64.9	63.7	62.5	61.4	60.2	59.1	58.0	56.8	55.7
35	66.7	65.5	64.4	63.2	62.1	61.0	59.8	58.7	57.6	56.5
36	67.2	66.1	65.0	63.9	62.8	61.6	60.6	59.5	58.4	57.3
37	67.8	66.7	65.6	64.5	63.4	62.3	61.2	60.2	59.1	58.0
38	68.3	67.2	66.2	65.1	64.0	62.9	61.9	60.8	59.8	58.7
39	68.9	67.8	66.7	65.6	64.6	63.5	62.5	61.5	60.4	59.4
40	69.3	68.3	67.2	66.2	65.1	64.1	63.1	62.1	61.1	60.1
41	69.8	68.8	67.7	66.7	65.7	64.7	63.6	62.6	61.7	60.7
42	70.3	69.2	68.2	67.2	66.2	65.2	64.2	63.2	62.2	61.3
43	70.7	69.7	68.7	67.7	66.7	65.7	64.7	63.7	62.8	61.8
44	71.1	70.1	69.1	68.1	67.1	66.2	65.2	64.2	63.3	62.4
45	71.5	70.5	69.5	68.6	67.6	66.6	65.7	64.7	63.8	62.9
46	71.9	70.9	69.9	69.0	68.0	67.1	66.1	65.2	64.3	63.4
47	72.2	71.3	70.3	69.4	68.4	67.5	66.6	65.7	64.8	63.8
48	72.6	71.7	70.7	69.8	68.8	67.9	67.0	66.1	65.2	64.3
49	72.9	72.0	71.1	70.2	69.2	68.3	67.4	66.5	65.6	64.7
50	73.3	72.3	71.4	70.5	69.6	68.7	67.8	66.9	66.0	65.2
51	73.6	72.7	71.8	70.9	70.0	69.1	68.2	67.3	66.4	65.6
52	73.9	73.0	72.1	71.2	70.3	69.4	68.6	67.7	66.8	66.0
53	74.2	73.3	72.4	71.5	70.7	69.8	68.9	68.1	67.2	66.4
54	74.5	73.6	72.7	71.8	71.0	70.1	69.3	68.4	67.6	66.7
55	74.8	73.9	73.0	72.1	71.3	70.4	69.6	68.8	67.9	67.1
56	75.0	74.2	73.3	72.4	71.6	70.8	69.9	69.1	68.3	67.5
57	75.3	74.4	73.6	72.7	71.9	71.1	70.2	69.4	68.6	67.8

表 3a₁（续）

$t-t_w$ / t	5.2	5.4	5.6	5.8	6.0	6.2	6.4	6.6	6.8	7.0
58	75.5	74.7	73.9	73.0	72.2	71.4	70.5	69.7	68.9	68.1
59	75.8	74.9	74.1	73.3	72.5	71.6	70.8	70.0	69.2	68.4
60	76.0	75.2	74.4	73.5	72.7	71.9	71.1	70.3	69.5	68.7
61	76.3	75.4	74.6	73.8	73.0	72.2	71.4	70.6	69.8	69.0
62	76.5	75.7	74.9	74.1	73.3	72.5	71.7	70.9	70.1	69.3
63	76.7	75.9	75.1	74.3	73.5	72.7	71.9	71.2	70.4	69.6
64	76.9	76.1	75.3	74.5	73.7	73.0	72.2	71.4	70.7	69.9
65	77.1	76.3	75.5	74.8	74.0	73.2	72.4	71.7	70.9	70.2
66	77.3	76.6	75.8	75.0	74.2	73.4	72.7	71.9	71.2	70.4
67	77.5	76.8	76.0	75.2	74.4	73.7	72.9	72.2	71.4	70.7
68	77.7	77.0	76.2	75.4	74.7	73.9	73.2	72.4	71.7	70.9
69	77.9	77.2	76.4	75.6	74.9	74.1	73.4	72.6	71.9	71.2
70	78.1	77.3	76.6	75.8	75.1	74.3	73.6	72.9	72.1	71.4
71	78.3	77.5	76.8	76.0	75.3	74.6	73.8	73.1	72.4	71.7
72	78.5	77.7	77.0	76.2	75.5	74.8	74.0	73.3	72.6	71.9
73	78.6	77.9	77.2	76.4	75.7	75.0	74.2	73.5	72.8	72.1
74	78.8	78.1	77.3	76.6	75.9	75.2	74.4	73.7	73.0	72.3
75	79.0	78.3	77.5	76.8	76.1	75.4	74.6	73.9	73.2	72.5
76	79.2	78.4	77.7	77.0	76.3	75.5	74.8	74.1	73.4	72.8
77	79.3	78.6	77.9	77.2	76.4	75.7	75.0	74.3	73.6	73.0
78	79.5	78.8	78.0	77.3	76.6	75.9	75.2	74.5	73.8	73.2
79	79.6	78.9	78.2	77.5	76.8	76.1	75.4	74.7	74.0	73.4
80	79.8	79.1	78.4	77.7	77.0	76.3	75.6	74.9	74.2	73.6
81	79.9	79.2	78.5	77.8	77.1	76.4	75.8	75.1	74.4	73.7
82	80.1	79.4	78.7	78.0	77.3	76.6	75.9	75.3	74.6	73.9
83	80.2	79.5	78.8	78.1	77.5	76.8	76.1	75.4	74.8	74.1
84	80.4	79.7	79.0	78.3	77.6	77.0	76.3	75.6	75.0	74.3
85	80.5	79.8	79.1	78.5	77.8	77.1	76.5	75.8	75.1	74.5
86	80.6	80.0	79.3	78.6	77.9	77.3	76.6	76.0	75.3	74.7
87	80.8	80.1	79.4	78.8	78.1	77.4	76.8	76.1	75.5	74.8
88	80.9	80.2	79.6	78.9	78.2	77.6	76.9	76.3	75.6	75.0
89	81.0	80.4	79.7	79.0	78.4	77.7	77.1	76.4	75.8	75.2
90	81.2	80.5	79.8	79.2	78.5	77.9	77.2	76.6	76.0	75.3
91	81.3	80.6	80.0	79.3	78.7	78.0	77.4	76.8	76.1	75.5
92	81.4	80.8	80.1	79.5	78.8	78.2	77.5	76.9	76.3	75.7
93	81.5	80.9	80.2	79.6	79.0	78.3	77.7	77.1	76.4	75.8
94	81.7	81.0	80.4	79.7	79.1	78.5	77.8	77.2	76.6	76.0
95	81.8	81.1	80.5	79.9	79.2	78.6	78.0	77.4	76.7	76.1
96	81.9	81.3	80.6	80.0	79.4	78.7	78.1	77.5	76.9	76.3
97	82.0	81.4	80.8	80.1	79.5	78.9	78.3	77.7	77.0	76.4
98	82.1	81.5	80.9	80.3	79.6	79.0	78.4	77.8	77.2	76.6
99	82.3	81.6	81.0	80.4	79.8	79.1	78.5	77.9	77.3	76.7
100	82.4	81.7	81.1	80.5	79.9	79.3	78.7	78.1	77.5	76.9

表 3a₁（续）

t−t_w / t	7.2	7.4	7.6	7.8	8.0	8.2	8.4	8.6	8.8	9.0
15	25.8	24.0	22.2	20.3	18.5	16.7	14.9	13.1	11.3	9.6
16	28.3	26.6	24.8	23.0	21.3	19.5	17.8	16.1	14.4	12.7
17	30.7	28.9	27.2	25.5	23.8	22.2	20.5	18.8	17.2	15.5
18	32.8	31.2	29.5	27.9	26.3	24.6	23.0	21.4	19.8	18.2
19	34.9	33.3	31.7	30.1	28.5	26.9	25.4	23.8	22.3	20.8
20	36.8	35.2	33.7	32.2	30.6	29.1	27.6	26.1	24.6	23.1
21	38.6	37.1	35.6	34.1	32.6	31.2	29.7	28.2	26.8	25.4
22	40.3	38.8	37.4	35.9	34.5	33.1	31.7	30.2	28.8	27.4
23	41.9	40.5	39.1	37.7	36.3	34.9	33.5	32.1	30.8	29.4
24	43.4	42.0	40.7	39.3	37.9	36.6	35.2	33.9	32.6	31.3
25	44.8	43.5	42.2	40.8	39.5	38.2	36.9	35.6	34.3	33.0
26	46.2	44.9	43.6	42.3	41.0	39.7	38.4	37.2	35.9	34.7
27	47.4	46.2	44.9	43.6	42.4	41.1	39.9	38.7	37.4	36.2
28	48.6	47.4	46.2	44.9	43.7	42.5	41.3	40.1	38.9	37.7
29	49.8	48.6	47.3	46.1	44.9	43.8	42.6	41.4	40.2	39.1
30	50.9	49.7	48.5	47.3	46.1	45.0	43.8	42.7	41.5	40.4
31	51.9	50.7	49.5	48.4	47.3	46.1	45.0	43.9	42.8	41.7
32	52.8	51.7	50.6	49.4	48.3	47.2	46.1	45.0	43.9	42.8
33	53.8	52.6	51.5	50.4	49.3	48.2	47.2	46.1	45.0	44.0
34	54.6	53.5	52.4	51.4	50.3	49.2	48.2	47.1	46.1	45.0
35	55.5	54.4	53.3	52.3	51.2	50.2	49.1	48.1	47.1	46.0
36	56.2	55.2	54.1	53.1	52.1	51.0	50.0	49.0	48.0	47.0
37	57.0	56.0	54.9	53.9	52.9	51.9	50.9	49.9	48.9	47.9
38	57.7	56.7	55.7	54.7	53.7	52.7	51.7	50.7	49.8	48.8
39	58.4	57.4	56.4	55.4	54.4	53.5	52.5	51.5	50.6	49.6
40	59.1	58.1	57.1	56.1	55.2	54.2	53.2	52.3	51.4	50.4
41	59.7	58.7	57.8	56.8	55.8	54.9	54.0	53.0	52.1	51.2
42	60.3	59.3	58.4	57.4	56.5	55.6	54.7	53.7	52.8	51.9
43	60.9	59.9	59.0	58.1	57.1	56.2	55.3	54.4	53.5	52.6
44	61.4	60.5	59.6	58.7	57.7	56.8	55.9	55.1	54.2	53.3
45	61.9	61.0	60.1	59.2	58.3	57.4	56.6	55.7	54.8	53.9
46	62.5	61.6	60.7	59.8	58.9	58.0	57.1	56.3	55.4	54.6
47	62.9	62.1	61.2	60.3	59.4	58.6	57.7	56.8	56.0	55.2
48	63.4	62.5	61.7	60.8	59.9	59.1	58.2	57.4	56.6	55.7
49	63.9	63.0	62.1	61.3	60.4	59.6	58.7	57.9	57.1	56.3
50	64.3	63.4	62.6	61.7	60.9	60.1	59.2	58.4	57.6	56.8
51	64.7	63.9	63.0	62.2	61.4	60.5	59.7	58.9	58.1	57.3
52	65.1	64.3	63.5	62.6	61.8	61.0	60.2	59.4	58.6	57.8
53	65.5	64.7	63.9	63.1	62.2	61.4	60.6	59.8	59.1	58.3
54	65.9	65.1	64.3	63.5	62.7	61.9	61.1	60.3	59.5	58.7
55	66.3	65.5	64.7	63.9	63.1	62.3	61.5	60.7	59.9	59.2
56	66.6	65.8	65.0	64.2	63.5	62.7	61.9	61.1	60.4	59.6
57	67.0	66.2	65.4	64.6	63.8	63.1	62.3	61.5	60.8	60.0

表 3a₁（续）

t－t_w / t	7.2	7.4	7.6	7.8	8.0	8.2	8.4	8.6	8.8	9.0
58	67.3	66.5	65.7	65.0	64.2	63.4	62.7	61.9	61.2	60.4
59	67.6	66.9	66.1	65.3	64.6	63.8	63.0	62.3	61.6	60.8
60	68.0	67.2	66.4	65.7	64.9	64.1	63.4	62.7	61.9	61.2
61	68.3	67.5	66.7	66.0	65.2	64.5	63.7	63.0	62.3	61.6
62	68.6	67.8	67.1	66.3	65.6	64.8	64.1	63.4	62.6	61.9
63	68.9	68.1	67.4	66.6	65.9	65.1	64.4	63.7	63.0	62.3
64	69.1	68.4	67.7	66.9	66.2	65.5	64.7	64.0	63.3	62.6
65	69.4	68.7	67.9	67.2	66.5	65.8	65.1	64.3	63.6	62.9
66	69.7	69.0	68.2	67.5	66.8	66.1	65.4	64.7	64.0	63.3
67	70.0	69.2	68.5	67.8	67.1	66.4	65.7	65.0	64.3	63.6
68	70.2	69.5	68.8	68.1	67.3	66.6	65.9	65.3	64.6	63.9
69	70.5	69.7	69.0	68.3	67.6	66.9	66.2	65.5	64.9	64.2
70	70.7	70.0	69.3	68.6	67.9	67.2	66.5	65.8	65.1	64.5
71	70.9	70.2	69.5	68.8	68.1	67.5	66.8	66.1	65.4	64.8
72	71.2	70.5	69.8	69.1	68.4	67.7	67.0	66.4	65.7	65.0
73	71.4	70.7	70.0	69.3	68.6	68.0	67.3	66.6	66.0	65.3
74	71.6	70.9	70.3	69.6	68.9	68.2	67.6	66.9	66.2	65.6
75	71.9	71.2	70.5	69.8	69.1	68.5	67.8	67.1	66.5	65.8
76	72.1	71.4	70.7	70.0	69.4	68.7	68.0	67.4	66.7	66.1
77	72.3	71.6	70.9	70.3	69.6	68.9	68.3	67.6	67.0	66.3
78	72.5	71.8	71.1	70.5	69.8	69.2	68.5	67.9	67.2	66.6
79	72.7	72.0	71.4	70.7	70.0	69.4	68.7	68.1	67.5	66.8
80	72.9	72.2	71.6	70.9	70.3	69.6	69.0	68.3	67.7	67.1
81	73.1	72.4	71.8	71.1	70.5	69.8	69.2	68.6	67.9	67.3
82	73.3	72.6	72.0	71.3	70.7	70.0	69.4	68.8	68.2	67.5
83	73.5	72.8	72.2	71.5	70.9	70.3	69.6	69.0	68.4	67.8
84	73.7	73.0	72.4	71.7	71.1	70.5	69.8	69.2	68.6	68.0
85	73.8	73.2	72.6	71.9	71.3	70.7	70.0	69.4	68.8	68.2
86	74.0	73.4	72.7	72.1	71.5	70.9	70.2	69.6	69.0	68.4
87	74.2	73.6	72.9	72.3	71.7	71.1	70.4	69.8	69.2	68.6
88	74.4	73.7	73.1	72.5	71.9	71.3	70.6	70.0	69.4	68.8
89	74.5	73.9	73.3	72.7	72.1	71.4	70.8	70.2	69.6	69.0
90	74.7	74.1	73.5	72.9	72.2	71.6	71.0	70.4	69.8	69.2
91	74.9	74.3	73.6	73.0	72.4	71.8	71.2	70.6	70.0	69.4
92	75.0	74.4	73.8	73.2	72.6	72.0	71.4	70.8	70.2	69.6
93	75.2	74.6	74.0	73.4	72.8	72.2	71.6	71.0	70.4	69.8
94	75.4	74.8	74.1	73.5	73.0	72.4	71.8	71.2	70.6	70.0
95	75.5	74.9	74.3	73.7	73.1	72.5	71.9	71.4	70.8	70.2
96	75.7	75.1	74.5	73.9	73.3	72.7	72.1	71.5	71.0	70.4
97	75.8	75.2	74.6	74.0	73.5	72.9	72.3	71.7	71.1	70.6
98	76.0	75.4	74.8	74.2	73.6	73.0	72.5	71.9	71.3	70.8
99	76.1	75.5	75.0	74.4	73.8	73.2	72.6	72.1	71.5	70.9
100	76.3	75.7	75.1	74.5	73.9	73.4	72.8	72.2	71.7	71.1

表 3a₁（续）

$t-t_w$ \ t	9.2	9.4	9.6	9.8	10.0	10.2	10.4	10.6	10.8	11.0
15	7.8	6.1	4.3	2.6	0.9					
16	11.0	9.3	7.6	5.9	4.3	2.6	1.0			
17	13.9	12.3	10.7	9.0	7.4	5.9	4.3	2.7	1.1	
18	16.6	15.1	13.5	12.0	10.4	8.9	7.4	5.8	4.3	2.8
19	19.2	17.7	16.2	14.7	13.2	11.7	10.3	8.8	7.3	5.9
20	21.7	20.2	18.7	17.3	15.8	14.4	13.0	11.6	10.2	8.8
21	23.9	22.5	21.1	19.7	18.3	16.9	15.5	14.2	12.8	11.4
22	26.1	24.7	23.3	22.0	20.6	19.3	17.9	16.6	15.3	14.0
23	28.1	26.7	25.4	24.1	22.8	21.5	20.2	18.9	17.6	16.3
24	30.0	28.7	27.4	26.1	24.8	23.6	22.3	21.1	19.8	18.6
25	31.8	30.5	29.2	28.0	26.8	25.5	24.3	23.1	21.9	20.7
26	33.4	32.2	31.0	29.8	28.6	27.4	26.2	25.0	23.8	22.7
27	35.0	33.8	32.6	31.5	30.3	29.1	28.0	26.8	25.7	24.5
28	36.5	35.4	34.2	33.0	31.9	30.8	29.6	28.5	27.4	26.3
29	37.9	36.8	35.7	34.6	33.4	32.3	31.2	30.1	29.0	28.0
30	39.3	38.2	37.1	36.0	34.9	33.8	32.7	31.7	30.6	29.5
31	40.6	39.5	38.4	37.3	36.3	35.2	34.1	33.1	32.1	31.0
32	41.8	40.7	39.6	38.6	37.6	36.5	35.5	34.5	33.5	32.5
33	42.9	41.9	40.8	39.8	38.8	37.8	36.8	35.8	34.8	33.8
34	44.0	43.0	42.0	41.0	40.0	39.0	38.0	37.0	36.0	35.1
35	45.0	44.0	43.0	42.1	41.1	40.1	39.1	38.2	37.2	36.3
36	46.0	45.0	44.1	43.1	42.1	41.2	40.2	39.3	38.4	37.4
37	47.0	46.0	45.0	44.1	43.1	42.2	41.3	40.4	39.4	38.5
38	47.9	46.9	46.0	45.0	44.1	43.2	42.3	41.4	40.5	39.6
39	48.7	47.8	46.8	45.9	45.0	44.1	43.2	42.3	41.4	40.6
40	49.5	48.6	47.7	46.8	45.9	45.0	44.1	43.2	42.4	41.5
41	50.3	49.4	48.5	47.6	46.7	45.9	45.0	44.1	43.3	42.4
42	51.0	50.2	49.3	48.4	47.5	46.7	45.8	45.0	44.1	43.3
43	51.8	50.9	50.0	49.1	48.3	47.4	46.6	45.8	44.9	44.1
44	52.4	51.6	50.7	49.9	49.0	48.2	47.4	46.5	45.7	44.9
45	53.1	52.2	51.4	50.6	49.7	48.9	48.1	47.3	46.5	45.7
46	53.7	52.9	52.0	51.2	50.4	49.6	48.8	48.0	47.2	46.4
47	54.3	53.5	52.7	51.9	51.0	50.2	49.4	48.7	47.9	47.1
48	54.9	54.1	53.3	52.5	51.7	50.9	50.1	49.3	48.5	47.8
49	55.5	54.7	53.9	53.1	52.3	51.5	50.7	49.9	49.2	48.4
50	56.0	55.2	54.4	53.6	52.8	52.1	51.3	50.5	49.8	49.0
51	56.5	55.7	54.9	54.2	53.4	52.6	51.9	51.1	50.4	49.6
52	57.0	56.2	55.5	54.7	53.9	53.2	52.4	51.7	50.9	50.2
53	57.5	56.7	56.0	55.2	54.5	53.7	53.0	52.2	51.5	50.8
54	58.0	57.2	56.4	55.7	54.9	54.2	53.5	52.7	52.0	51.3
55	58.4	57.7	56.9	56.2	55.4	54.7	54.0	53.3	52.5	51.8
56	58.9	58.1	57.4	56.6	55.9	55.2	54.5	53.7	53.0	52.3
57	59.3	58.5	57.8	57.1	56.4	55.6	54.9	54.2	53.5	52.8

表 3a₁（续）

$t - t_w$ / t	9.2	9.4	9.6	9.8	10.0	10.2	10.4	10.6	10.8	11.0
58	59.7	59.0	58.2	57.5	56.8	56.1	55.4	54.7	54.0	53.3
59	60.1	59.4	58.6	57.9	57.2	56.5	55.8	55.1	54.4	53.7
60	60.5	59.8	59.0	58.3	57.6	56.9	56.2	55.5	54.9	54.2
61	60.8	60.1	59.4	58.7	58.0	57.3	56.6	56.0	55.3	54.6
62	61.2	60.5	59.8	59.1	58.4	57.7	57.0	56.4	55.7	55.0
63	61.6	60.9	60.2	59.5	58.8	58.1	57.4	56.8	56.1	55.4
64	61.9	61.2	60.5	59.8	59.2	58.5	57.8	57.2	56.5	55.8
65	62.2	61.6	60.9	60.2	59.5	58.8	58.2	57.5	56.9	56.2
66	62.6	61.9	61.2	60.5	59.9	59.2	58.5	57.9	57.2	56.6
67	62.9	62.2	61.5	60.9	60.2	59.5	58.9	58.2	57.6	57.0
68	63.2	62.5	61.9	61.2	60.5	59.9	59.2	58.6	58.0	57.3
69	63.5	62.8	62.2	61.5	60.9	60.2	59.6	58.9	58.3	57.7
70	63.8	63.1	62.5	61.8	61.2	60.5	59.9	59.3	58.6	58.0
71	64.1	63.4	62.8	62.1	61.5	60.8	60.2	59.6	59.0	58.3
72	64.4	63.7	63.1	62.4	61.8	61.2	60.5	59.9	59.3	58.7
73	64.7	64.0	63.4	62.7	62.1	61.5	60.8	60.2	59.6	59.0
74	64.9	64.3	63.6	63.0	62.4	61.7	61.1	60.5	59.9	59.3
75	65.2	64.6	63.9	63.3	62.7	62.0	61.4	60.8	60.2	59.6
76	65.5	64.8	64.2	63.6	62.9	62.3	61.7	61.1	60.5	59.9
77	65.7	65.1	64.5	63.8	63.2	62.6	62.0	61.4	60.8	60.2
78	66.0	65.3	64.7	64.1	63.5	62.9	62.3	61.7	61.1	60.5
79	66.2	65.6	65.0	64.3	63.7	63.1	62.5	61.9	61.3	60.7
80	66.4	65.8	65.2	64.6	64.0	63.4	62.8	62.2	61.6	61.0
81	66.7	66.1	65.5	64.8	64.2	63.6	63.1	62.5	61.9	61.3
82	66.9	66.3	65.7	65.1	64.5	63.9	63.3	62.7	62.1	61.6
83	67.1	66.5	65.9	65.3	64.7	64.1	63.6	63.0	62.4	61.8
84	67.4	66.8	66.2	65.6	65.0	64.4	63.8	63.2	62.6	62.1
85	67.6	67.0	66.4	65.8	65.2	64.6	64.0	63.5	62.9	62.3
86	67.8	67.2	66.6	66.0	65.4	64.9	64.3	63.7	63.1	62.6
87	68.0	67.4	66.8	66.3	65.7	65.1	64.5	63.9	63.4	62.8
88	68.2	67.6	67.1	66.5	65.9	65.3	64.7	64.2	63.6	63.1
89	68.4	67.9	67.3	66.7	66.1	65.5	65.0	64.4	63.8	63.3
90	68.7	68.1	67.5	66.9	66.3	65.8	65.2	64.6	64.1	63.5
91	68.9	68.3	67.7	67.1	66.5	66.0	65.4	64.9	64.3	63.8
92	69.1	68.5	67.9	67.3	66.8	66.2	65.6	65.1	64.5	64.0
93	69.2	68.7	68.1	67.5	67.0	66.4	65.9	65.3	64.7	64.2
94	69.4	68.9	68.3	67.7	67.2	66.6	66.1	65.5	65.0	64.4
95	69.6	69.1	68.5	67.9	67.4	66.8	66.3	65.7	65.2	64.6
96	69.8	69.3	68.7	68.1	67.6	67.0	66.5	65.9	65.4	64.9
97	70.0	69.4	68.9	68.3	67.8	67.2	66.7	66.1	65.6	65.1
98	70.2	69.6	69.1	68.5	68.0	67.4	66.9	66.3	65.8	65.3
99	70.4	69.8	69.3	68.7	68.2	67.6	67.1	66.5	66.0	65.5
100	70.5	70.0	69.4	68.9	68.4	67.8	67.3	66.7	66.2	65.7

表 3a₁（续）

$t-t_w$ / t	11.5	12.0	12.5	13.5	13.5	14.0	14.5	15.0	15.5	16.0
15										
16										
17										
18										
19	2.3									
20	5.3	1.9								
21	8.1	4.8	1.5							
22	10.7	7.5	4.4	1.3						
23	13.2	10.1	7.0	4.0	1.1					
24	15.5	12.5	9.5	6.6	3.8	0.9				
25	17.7	14.8	11.9	9.1	6.3	3.5	0.8			
26	19.8	16.9	14.1	11.4	8.7	6.0	3.4	0.8		
27	21.7	19.0	16.2	13.6	10.9	8.3	5.8	3.3	0.8	
28	23.6	20.9	18.2	15.6	13.0	10.5	8.0	5.6	3.2	0.8
29	25.3	22.7	20.1	17.6	15.1	12.6	10.2	7.8	5.4	3.1
30	26.9	24.4	21.9	19.4	16.9	14.5	12.2	9.9	7.6	5.3
31	28.5	26.0	23.5	21.1	18.7	16.4	14.1	11.8	9.6	7.4
32	30.0	27.5	25.1	22.8	20.4	18.1	15.9	13.7	11.5	9.4
33	31.4	29.0	26.6	24.3	22.0	19.8	17.6	15.5	13.3	11.2
34	32.7	30.3	28.0	25.8	23.6	21.4	19.2	17.1	15.0	13.0
35	33.9	31.7	29.4	27.2	25.0	22.9	20.8	18.7	16.7	14.7
36	35.1	32.9	30.7	28.5	26.4	24.3	22.2	20.2	18.2	16.3
37	36.3	34.1	31.9	29.8	27.7	25.6	23.6	21.6	19.7	17.8
38	37.4	35.2	33.1	31.0	28.9	26.9	24.9	23.0	21.1	19.2
39	38.4	36.3	34.2	32.1	30.1	28.1	26.2	24.3	22.4	20.6
40	39.4	37.3	35.2	33.2	31.2	29.3	27.4	25.5	23.7	21.8
41	40.3	38.3	36.2	34.3	32.3	30.4	28.5	26.7	24.9	23.1
42	41.2	39.2	37.2	35.3	33.3	31.5	29.6	27.8	26.0	24.3
43	42.1	40.1	38.1	36.2	34.3	32.5	30.6	28.9	27.1	25.4
44	42.9	40.9	39.0	37.1	35.3	33.4	31.6	29.9	28.1	26.5
45	43.7	41.8	39.9	38.0	36.2	34.4	32.6	30.9	29.2	27.5
46	44.4	42.5	40.7	38.8	37.0	35.2	33.5	31.8	30.1	28.5
47	45.2	43.3	41.4	39.6	37.8	36.1	34.4	32.7	31.0	29.4
48	45.9	44.0	42.2	40.4	38.6	36.9	35.2	33.5	31.9	30.3
49	46.5	44.7	42.9	41.1	39.4	37.7	36.0	34.4	32.8	31.2
50	47.2	45.4	43.6	41.8	40.1	38.4	36.8	35.2	33.6	32.0
51	47.8	46.0	44.2	42.5	40.8	39.2	37.5	35.9	34.3	32.8
52	48.4	46.6	44.9	43.2	41.5	39.8	38.2	36.6	35.1	33.6
53	49.0	47.2	45.5	43.8	42.1	40.5	38.9	37.4	35.8	34.3
54	49.5	47.8	46.1	44.4	42.8	41.2	39.6	38.0	36.5	35.0
55	50.1	48.4	46.7	45.0	43.4	41.8	40.2	38.7	37.2	35.7
56	50.6	48.9	47.2	45.6	44.0	42.4	40.8	39.3	37.8	36.4
57	51.1	49.4	47.8	46.1	44.5	43.0	41.4	39.9	38.5	37.0

表 3a₁（续）

$t-t_w$ / t	11.5	12.0	12.5	13.5	13.5	14.0	14.5	15.0	15.5	16.0
58	51.6	49.9	48.3	46.7	45.1	43.5	42.0	40.5	39.1	37.6
59	52.1	50.4	48.8	47.2	45.6	44.1	42.6	41.1	39.6	38.2
60	52.5	50.9	49.3	47.7	46.1	44.6	43.1	41.7	40.2	38.8
61	53.0	51.3	49.7	48.2	46.6	45.1	43.6	42.2	40.8	39.4
62	53.4	51.8	50.2	48.6	47.1	45.6	44.2	42.7	41.3	39.9
63	53.8	52.2	50.6	49.1	47.6	46.1	44.6	43.2	41.8	40.4
64	54.2	52.6	51.1	49.5	48.0	46.6	45.1	43.7	42.3	40.9
65	54.6	53.0	51.5	50.0	48.5	47.0	45.6	44.2	42.8	41.4
66	55.0	53.4	51.9	50.4	48.9	47.5	46.0	44.7	43.3	41.9
67	55.4	53.8	52.3	50.8	49.3	47.9	46.5	45.1	43.7	42.4
68	55.7	54.2	52.7	51.2	49.8	48.3	46.9	45.5	44.2	42.9
69	56.1	54.6	53.1	51.6	50.2	48.7	47.3	46.0	44.6	43.3
70	56.5	54.9	53.4	52.0	50.5	49.1	47.8	46.4	45.1	43.7
71	56.8	55.3	53.8	52.4	50.9	49.5	48.2	46.8	45.5	44.2
72	57.1	55.6	54.2	52.7	51.3	49.9	48.5	47.2	45.9	44.6
73	57.5	56.0	54.5	53.1	51.7	50.3	48.9	47.6	46.3	45.0
74	57.8	56.3	54.9	53.4	52.0	50.7	49.3	48.0	46.7	45.4
75	58.1	56.6	55.2	53.8	52.4	51.0	49.7	48.3	47.1	45.8
76	58.4	56.9	55.5	54.1	52.7	51.4	50.0	48.7	47.4	46.2
77	58.7	57.3	55.8	54.4	53.1	51.7	50.4	49.1	47.8	46.5
78	59.0	57.6	56.1	54.7	53.4	52.0	50.7	49.4	48.1	46.9
79	59.3	57.9	56.4	55.1	53.7	52.4	51.1	49.8	48.5	47.3
80	59.6	58.1	56.7	55.4	54.0	52.7	51.4	50.1	48.8	47.6
81	59.8	58.4	57.0	55.7	54.3	53.0	51.7	50.4	49.2	47.9
82	60.1	58.7	57.3	56.0	54.6	53.3	52.0	50.8	49.5	48.3
83	60.4	59.0	57.6	56.3	54.9	53.6	52.3	51.1	49.8	48.6
84	60.7	59.3	57.9	56.5	55.2	53.9	52.6	51.4	50.1	48.9
85	60.9	59.5	58.2	56.8	55.5	54.2	52.9	51.7	50.5	49.3
86	61.2	59.8	58.4	57.1	55.8	54.5	53.2	52.0	50.8	49.6
87	61.4	60.0	58.7	57.4	56.1	54.8	53.5	52.3	51.1	49.9
88	61.7	60.3	59.0	57.6	56.3	55.1	53.8	52.6	51.4	50.2
89	61.9	60.6	59.2	57.9	56.6	55.3	54.1	52.9	51.7	50.5
90	62.2	60.8	59.5	58.2	56.9	55.6	54.4	53.2	52.0	50.8
91	62.4	61.0	59.7	58.4	57.1	55.9	54.7	53.4	52.2	51.1
92	62.6	61.3	60.0	58.7	57.4	56.2	54.9	53.7	52.5	51.3
93	62.8	61.5	60.2	58.9	57.7	56.4	55.2	54.0	52.8	51.6
94	63.1	61.8	60.5	59.2	57.9	56.7	55.5	54.3	53.1	51.9
95	63.3	62.0	60.7	59.4	58.2	56.9	55.7	54.5	53.3	52.2
96	63.5	62.2	60.9	59.7	58.4	57.2	56.0	54.8	53.6	52.5
97	63.7	62.4	61.2	59.9	58.6	57.4	56.2	55.0	53.9	52.7
98	64.0	62.7	61.4	60.1	58.9	57.7	56.5	55.3	54.1	53.0
99	64.2	62.9	61.6	60.4	59.1	57.9	56.7	55.5	54.4	53.2
100	64.4	63.1	61.8	60.6	59.4	58.1	57.0	55.8	54.6	53.5

表 3a₂ 柱状水银温度表相对湿度查算表

$$P = 100 \text{ kPa}, A = 0.815 \times 10^{-3}\text{℃}^{-1}(0.4 \text{ m/s})$$

$t-t_w$ / t	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0
15	100.0	98.9	97.8	96.6	95.5	94.4	93.3	92.2	91.1	90.0	89.0
16	100.0	98.9	97.8	96.8	95.7	94.6	93.5	92.5	91.4	90.4	89.3
17	100.0	98.9	97.9	96.9	95.8	94.8	93.7	92.7	91.7	90.6	89.6
18	100.0	99.0	98.0	96.9	95.9	94.9	93.9	92.9	91.9	90.9	89.9
19	100.0	99.0	98.0	97.0	96.0	95.1	94.1	93.1	92.1	91.2	90.2
20	100.0	99.0	98.1	97.1	96.2	95.2	94.3	93.3	92.4	91.4	90.5
21	100.0	99.1	98.1	97.2	96.3	95.3	94.4	93.5	92.6	91.6	90.7
22	100.0	99.1	98.2	97.3	96.4	95.4	94.5	93.7	92.8	91.9	91.0
23	100.0	99.1	98.2	97.3	96.4	95.6	94.7	93.8	92.9	92.1	91.2
24	100.0	99.1	98.3	97.4	96.5	95.7	94.8	94.0	93.1	92.3	91.4
25	100.0	99.1	98.3	97.5	96.6	95.8	94.9	94.1	93.3	92.4	91.6
26	100.0	99.2	98.3	97.5	96.7	95.9	95.0	94.2	93.4	92.6	91.8
27	100.0	99.2	98.4	97.6	96.8	96.0	95.2	94.4	93.6	92.8	92.0
28	100.0	99.2	98.4	97.6	96.8	96.0	95.3	94.5	93.7	92.9	92.2
29	100.0	99.2	98.4	97.7	96.9	96.1	95.4	94.6	93.8	93.1	92.3
30	100.0	99.2	98.5	97.7	97.0	96.2	95.5	94.7	94.0	93.2	92.5
31	100.0	99.3	98.5	97.8	97.0	96.3	95.5	94.8	94.1	93.4	92.6
32	100.0	99.3	98.5	97.8	97.1	96.4	95.6	94.9	94.2	93.5	92.8
33	100.0	99.3	98.6	97.8	97.1	96.4	95.7	95.0	94.3	93.6	92.9
34	100.0	99.3	98.6	97.9	97.2	96.5	95.8	95.1	94.4	93.7	93.0
35	100.0	99.3	98.6	97.9	97.2	96.5	95.9	95.2	94.5	93.8	93.2
36	100.0	99.3	98.6	98.0	97.3	96.6	95.9	95.3	94.6	93.9	93.3
37	100.0	99.3	98.7	98.0	97.3	96.7	96.0	95.3	94.7	94.0	93.4
38	100.0	99.3	98.7	98.0	97.4	96.7	96.1	95.4	94.8	94.1	93.5
39	100.0	99.3	98.7	98.1	97.4	96.8	96.1	95.5	94.9	94.2	93.6
40	100.0	99.4	98.7	98.1	97.4	96.8	96.2	95.6	94.9	94.3	93.7
41	100.0	99.4	98.7	98.1	97.5	96.9	96.2	95.6	95.0	94.4	93.8
42	100.0	99.4	98.8	98.1	97.5	96.9	96.3	95.7	95.1	94.5	93.9
43	100.0	99.4	98.8	98.2	97.6	96.9	96.3	95.7	95.1	94.6	94.0
44	100.0	99.4	98.8	98.2	97.6	97.0	96.4	95.8	95.2	94.6	94.0
45	100.0	99.4	98.8	98.2	97.6	97.0	96.4	95.9	95.3	94.7	94.1
46	100.0	99.4	98.8	98.2	97.7	97.1	96.5	95.9	95.3	94.8	94.2
47	100.0	99.4	98.8	98.3	97.7	97.1	96.5	96.0	95.4	94.8	94.3
48	100.0	99.4	98.9	98.3	97.7	97.1	96.6	96.0	95.5	94.9	94.3
49	100.0	99.4	98.9	98.3	97.7	97.2	96.6	96.1	95.5	95.0	94.4
50	100.0	99.4	98.9	98.3	97.8	97.2	96.7	96.1	95.6	95.0	94.5
51	100.0	99.4	98.9	98.3	97.8	97.2	96.7	96.2	95.6	95.1	94.5
52	100.0	99.5	98.9	98.4	97.8	97.3	96.7	96.2	95.7	95.1	94.6
53	100.0	99.5	98.9	98.4	97.8	97.3	96.8	96.2	95.7	95.2	94.7
54	100.0	99.5	98.9	98.4	97.9	97.3	96.8	96.3	95.8	95.2	94.7
55	100.0	99.5	98.9	98.4	97.9	97.4	96.8	96.3	95.8	95.3	94.8
56	100.0	99.5	99.0	98.4	97.9	97.4	96.9	96.4	95.9	95.4	94.8
57	100.0	99.5	99.0	98.4	97.9	97.4	96.9	96.4	95.9	95.4	94.9

表 3a₂（续）

t−tw / t	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0
58	100.0	99.5	99.0	98.5	98.0	97.5	96.9	96.4	95.9	95.4	95.0
59	100.0	99.5	99.0	98.5	98.0	97.5	97.0	96.5	96.0	95.5	95.0
60	100.0	99.5	99.0	98.5	98.0	97.5	97.0	96.5	96.0	95.5	95.1
61	100.0	99.5	99.0	98.5	98.0	97.5	97.0	96.6	96.1	95.6	95.1
62	100.0	99.5	99.0	98.5	98.0	97.6	97.1	96.6	96.1	95.6	95.1
63	100.0	99.5	99.0	98.5	98.1	97.6	97.1	96.6	96.1	95.7	95.2
64	100.0	99.5	99.0	98.6	98.1	97.6	97.1	96.7	96.2	95.7	95.2
65	100.0	99.5	99.0	98.6	98.1	97.6	97.2	96.7	96.2	95.7	95.3
66	100.0	99.5	99.1	98.6	98.1	97.6	97.2	96.7	96.2	95.8	95.3
67	100.0	99.5	99.1	98.6	98.1	97.7	97.2	96.7	96.3	95.8	95.4
68	100.0	99.5	99.1	98.6	98.1	97.7	97.2	96.8	96.3	95.9	95.4
69	100.0	99.5	99.1	98.6	98.2	97.7	97.3	96.8	96.3	95.9	95.5
70	100.0	99.5	99.1	98.6	98.2	97.7	97.3	96.8	96.4	95.9	95.5
71	100.0	99.5	99.1	98.6	98.2	97.7	97.3	96.9	96.4	96.0	95.5
72	100.0	99.5	99.1	98.7	98.2	97.8	97.3	96.9	96.4	96.0	95.6
73	100.0	99.6	99.1	98.7	98.2	97.8	97.3	96.9	96.5	96.0	95.6
74	100.0	99.6	99.1	98.7	98.2	97.8	97.4	96.9	96.5	96.1	95.6
75	100.0	99.6	99.1	98.7	98.3	97.8	97.4	97.0	96.5	96.1	95.7
76	100.0	99.6	99.1	98.7	98.3	97.8	97.4	97.0	96.6	96.1	95.7
77	100.0	99.6	99.1	98.7	98.3	97.9	97.4	97.0	96.6	96.2	95.7
78	100.0	99.6	99.1	98.7	98.3	97.9	97.5	97.0	96.6	96.2	95.8
79	100.0	99.6	99.2	98.7	98.3	97.9	97.5	97.1	96.6	96.2	95.8
80	100.0	99.6	99.2	98.7	98.3	97.9	97.5	97.1	96.7	96.3	95.8
81	100.0	99.6	99.2	98.7	98.3	97.9	97.5	97.1	96.7	96.3	95.9
82	100.0	99.6	99.2	98.8	98.3	97.9	97.5	97.1	96.7	96.3	95.9
83	100.0	99.6	99.2	98.8	98.4	98.0	97.5	97.1	96.7	96.3	95.9
84	100.0	99.6	99.2	98.8	98.4	98.0	97.6	97.2	96.8	96.4	96.0
85	100.0	99.6	99.2	98.8	98.4	98.0	97.6	97.2	96.8	96.4	96.0
86	100.0	99.6	99.2	98.8	98.4	98.0	97.6	97.2	96.8	96.4	96.0
87	100.0	99.6	99.2	98.8	98.4	98.0	97.6	97.2	96.8	96.4	96.1
88	100.0	99.6	99.2	98.8	98.4	98.0	97.6	97.2	96.9	96.5	96.1
89	100.0	99.6	99.2	98.8	98.4	98.0	97.7	97.3	96.9	96.5	96.1
90	100.0	99.6	99.2	98.8	98.4	98.1	97.7	97.3	96.9	96.5	96.1
91	100.0	99.6	99.2	98.8	98.5	98.1	97.7	97.3	96.9	96.5	96.2
92	100.0	99.6	99.2	98.8	98.5	98.1	97.7	97.3	97.0	96.6	96.2
93	100.0	99.6	99.2	98.9	98.5	98.1	97.7	97.3	97.0	96.6	96.2
94	100.0	99.6	99.2	98.9	98.5	98.1	97.7	97.4	97.0	96.6	96.3
95	100.0	99.6	99.2	98.9	98.5	98.1	97.8	97.4	97.0	96.6	96.3
96	100.0	99.6	99.3	98.9	98.5	98.1	97.8	97.4	97.0	96.7	96.3
97	100.0	99.6	99.3	98.9	98.5	98.2	97.8	97.4	97.1	96.7	96.3
98	100.0	99.6	99.3	98.9	98.5	98.2	97.8	97.4	97.1	96.7	96.4
99	100.0	99.6	99.3	98.9	98.5	98.2	97.8	97.5	97.1	96.7	96.4
100	100.0	99.6	99.3	98.9	98.5	98.2	97.8	97.5	97.1	96.8	96.4

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表 3a₂（续）

t\t−t_w	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0
15	87.9	86.8	85.7	84.6	83.6	82.5	81.4	80.4	79.3	78.3
16	88.3	87.2	86.2	85.1	84.1	83.0	82.0	81.0	80.0	78.9
17	88.6	87.6	86.6	85.6	84.6	83.6	82.6	81.6	80.6	79.6
18	88.9	88.0	87.0	86.0	85.0	84.0	83.1	82.1	81.1	80.2
19	89.3	88.3	87.3	86.4	85.4	84.5	83.6	82.6	81.7	80.8
20	89.6	88.6	87.7	86.8	85.8	84.9	84.0	83.1	82.2	81.3
21	89.8	88.9	88.0	87.1	86.2	85.3	84.4	83.6	82.7	81.8
22	90.1	89.2	88.3	87.5	86.6	85.7	84.8	84.0	83.1	82.3
23	90.3	89.5	88.6	87.8	86.9	86.1	85.2	84.4	83.5	82.7
24	90.6	89.7	88.9	88.1	87.2	86.4	85.6	84.8	83.9	83.1
25	90.8	90.0	89.2	88.3	87.5	86.7	85.9	85.1	84.3	83.5
26	91.0	90.2	89.4	88.6	87.8	87.0	86.3	85.5	84.7	83.9
27	91.2	90.4	89.6	88.9	88.1	87.3	86.6	85.8	85.0	84.3
28	91.4	90.6	89.9	89.1	88.4	87.6	86.8	86.1	85.4	84.6
29	91.6	90.8	90.1	89.3	88.6	87.9	87.1	86.4	85.7	84.9
30	91.7	91.0	90.3	89.5	88.8	88.1	87.4	86.7	85.9	85.2
31	91.9	91.2	90.5	89.8	89.0	88.3	87.6	86.9	86.2	85.5
32	92.1	91.4	90.7	90.0	89.3	88.6	87.9	87.2	86.5	85.8
33	92.2	91.5	90.8	90.1	89.5	88.8	88.1	87.4	86.7	86.1
34	92.3	91.7	91.0	90.3	89.6	89.0	88.3	87.6	87.0	86.3
35	92.5	91.8	91.1	90.5	89.8	89.2	88.5	87.9	87.2	86.6
36	92.6	92.0	91.3	90.6	90.0	89.3	88.7	88.1	87.4	86.8
37	92.7	92.1	91.4	90.8	90.2	89.5	88.9	88.3	87.6	87.0
38	92.8	92.2	91.6	90.9	90.3	89.7	89.1	88.4	87.8	87.2
39	93.0	92.3	91.7	91.1	90.5	89.9	89.2	88.6	88.0	87.4
40	93.1	92.5	91.8	91.2	90.6	90.0	89.4	88.8	88.2	87.6
41	93.2	92.6	92.0	91.4	90.8	90.2	89.6	89.0	88.4	87.8
42	93.3	92.7	92.1	91.5	90.9	90.3	89.7	89.1	88.5	88.0
43	93.4	92.8	92.2	91.6	91.0	90.4	89.9	89.3	88.7	88.1
44	93.5	92.9	92.3	91.7	91.1	90.6	90.0	89.4	88.9	88.3
45	93.5	93.0	92.4	91.8	91.3	90.7	90.1	89.6	89.0	88.5
46	93.6	93.1	92.5	91.9	91.4	90.8	90.3	89.7	89.2	88.6
47	93.7	93.2	92.6	92.0	91.5	90.9	90.4	89.8	89.3	88.8
48	93.8	93.2	92.7	92.1	91.6	91.1	90.5	90.0	89.4	88.9
49	93.9	93.3	92.8	92.2	91.7	91.2	90.6	90.1	89.6	89.0
50	93.9	93.4	92.9	92.3	91.8	91.3	90.7	90.2	89.7	89.2
51	94.0	93.5	93.0	92.4	91.9	91.4	90.8	90.3	89.8	89.3
52	94.1	93.6	93.0	92.5	92.0	91.5	91.0	90.4	89.9	89.4
53	94.1	93.6	93.1	92.6	92.1	91.6	91.1	90.5	90.0	89.5
54	94.2	93.7	93.2	92.7	92.2	91.7	91.2	90.7	90.2	89.7
55	94.3	93.8	93.3	92.8	92.3	91.8	91.3	90.8	90.3	89.8
56	94.3	93.8	93.3	92.8	92.3	91.8	91.3	90.9	90.4	89.9
57	94.4	93.9	93.4	92.9	92.4	91.9	91.4	91.0	90.5	90.0

表 3a₂(续)

t−t_w t	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0
58	94.5	94.0	93.5	93.0	92.5	92.0	91.5	91.0	90.6	90.1
59	94.5	94.0	93.5	93.1	92.6	92.1	91.6	91.1	90.7	90.2
60	94.6	94.1	93.6	93.1	92.6	92.2	91.7	91.2	90.8	90.3
61	94.6	94.1	93.7	93.2	92.7	92.2	91.8	91.3	90.8	90.4
62	94.7	94.2	93.7	93.3	92.8	92.3	91.9	91.4	90.9	90.5
63	94.7	94.3	93.8	93.3	92.9	92.4	91.9	91.5	91.0	90.6
64	94.8	94.3	93.8	93.4	92.9	92.5	92.0	91.6	91.1	90.6
65	94.8	94.4	93.9	93.4	93.0	92.5	92.1	91.6	91.2	90.7
66	94.9	94.4	94.0	93.5	93.1	92.6	92.2	91.7	91.3	90.8
67	94.9	94.5	94.0	93.6	93.1	92.7	92.2	91.8	91.3	90.9
68	95.0	94.5	94.1	93.6	93.2	92.7	92.3	91.9	91.4	91.0
69	95.0	94.6	94.1	93.7	93.2	92.8	92.4	91.9	91.5	91.1
70	95.0	94.6	94.2	93.7	93.3	92.9	92.4	92.0	91.6	91.1
71	95.1	94.7	94.2	93.8	93.4	92.9	92.5	92.1	91.6	91.2
72	95.1	94.7	94.3	93.8	93.4	93.0	92.6	92.1	91.7	91.3
73	95.2	94.7	94.3	93.9	93.5	93.0	92.6	92.2	91.8	91.4
74	95.2	94.8	94.4	93.9	93.5	93.1	92.7	92.3	91.8	91.4
75	95.3	94.8	94.4	94.0	93.6	93.2	92.7	92.3	91.9	91.5
76	95.3	94.9	94.5	94.0	93.6	93.2	92.8	92.4	92.0	91.6
77	95.3	94.9	94.5	94.1	93.7	93.3	92.9	92.4	92.0	91.6
78	95.4	95.0	94.5	94.1	93.7	93.3	92.9	92.5	92.1	91.7
79	95.4	95.0	94.6	94.2	93.8	93.4	93.0	92.6	92.2	91.8
80	95.4	95.0	94.6	94.2	93.8	93.4	93.0	92.6	92.2	91.8
81	95.5	95.1	94.7	94.3	93.9	93.5	93.1	92.7	92.3	91.9
82	95.5	95.1	94.7	94.3	93.9	93.5	93.1	92.7	92.3	92.0
83	95.5	95.1	94.7	94.4	94.0	93.6	93.2	92.8	92.4	92.0
84	95.6	95.2	94.8	94.4	94.0	93.6	93.2	92.8	92.5	92.1
85	95.6	95.2	94.8	94.4	94.0	93.7	93.3	92.9	92.5	92.1
86	95.6	95.3	94.9	94.5	94.1	93.7	93.3	92.9	92.6	92.2
87	95.7	95.3	94.9	94.5	94.1	93.8	93.4	93.0	92.6	92.2
88	95.7	95.3	94.9	94.6	94.2	93.8	93.4	93.0	92.7	92.3
89	95.7	95.4	95.0	94.6	94.2	93.8	93.5	93.1	92.7	92.4
90	95.8	95.4	95.0	94.6	94.3	93.9	93.5	93.1	92.8	92.4
91	95.8	95.4	95.0	94.7	94.3	93.9	93.6	93.2	92.8	92.5
92	95.8	95.5	95.1	94.7	94.3	94.0	93.6	93.2	92.9	92.5
93	95.9	95.5	95.1	94.7	94.4	94.0	93.7	93.3	92.9	92.6
94	95.9	95.5	95.1	94.8	94.4	94.1	93.7	93.3	93.0	92.6
95	95.9	95.5	95.2	94.8	94.5	94.1	93.7	93.4	93.0	92.7
96	95.9	95.6	95.2	94.9	94.5	94.1	93.8	93.4	93.1`	92.7
97	96.0	95.6	95.2	94.9	94.5	94.2	93.8	93.5	93.1	92.8
98	96.0	95.6	95.3	94.9	94.6	94.2	93.9	93.5	93.2	92.8
99	96.0	95.7	95.3	95.0	94.6	94.3	93.9	93.6	93.2	92.9
100	96.0	95.7	95.3	95.0	94.6	94.3	93.9	93.6	93.3	92.9

表 3a₂（续）

t－t_w / t	2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9	3.0
15	77.2	76.2	75.1	74.1	73.0	72.0	71.0	69.9	68.9	67.9
16	77.9	76.9	75.9	74.9	73.9	72.9	71.9	70.9	69.9	68.9
17	78.6	77.6	76.6	75.7	74.7	73.7	72.8	71.8	70.8	69.9
18	79.2	78.3	77.3	76.4	75.4	74.5	73.6	72.6	71.7	70.8
19	79.8	78.9	78.0	77.1	76.1	75.2	74.3	73.4	72.5	71.6
20	80.4	79.5	78.6	77.7	76.8	75.9	75.0	74.2	73.3	72.4
21	80.9	80.0	79.2	78.3	77.4	76.6	75.7	74.9	74.0	73.1
22	81.4	80.6	79.7	78.9	78.0	77.2	76.3	75.5	74.7	73.8
23	81.9	81.0	80.2	79.4	78.6	77.8	76.9	76.1	75.3	74.5
24	82.3	81.5	80.7	79.9	79.1	78.3	77.5	76.7	75.9	75.1
25	82.7	82.0	81.2	80.4	79.6	78.8	78.0	77.3	76.5	75.7
26	83.1	82.4	81.6	80.8	80.1	79.3	78.5	77.8	77.0	76.3
27	83.5	82.8	82.0	81.3	80.5	79.8	79.0	78.3	77.6	76.8
28	83.9	83.1	82.4	81.7	80.9	80.2	79.5	78.8	78.0	77.3
29	84.2	83.5	82.8	82.0	81.3	80.6	79.9	79.2	78.5	77.8
30	84.5	83.8	83.1	82.4	81.7	81.0	80.3	79.6	78.9	78.3
31	84.8	84.1	83.4	82.8	82.1	81.4	80.7	80.0	79.4	78.7
32	85.1	84.4	83.8	83.1	82.4	81.7	81.1	80.4	79.8	79.1
33	85.4	84.7	84.1	83.4	82.7	82.1	81.4	80.8	80.1	79.5
34	85.7	85.0	84.4	83.7	83.1	82.4	81.8	81.1	80.5	79.9
35	85.9	85.3	84.6	84.0	83.4	82.7	82.1	81.5	80.8	80.2
36	86.2	85.5	84.9	84.3	83.6	83.0	82.4	81.8	81.2	80.5
37	86.4	85.8	85.1	84.5	83.9	83.3	82.7	82.1	81.5	80.9
38	86.6	86.0	85.4	84.8	84.2	83.6	83.0	82.4	81.8	81.2
39	86.8	86.2	85.6	85.0	84.4	83.8	83.2	82.6	82.1	81.5
40	87.0	86.4	85.8	85.2	84.7	84.1	83.5	82.9	82.3	81.8
41	87.2	86.6	86.0	85.5	84.9	84.3	83.7	83.2	82.6	82.0
42	87.4	86.8	86.2	85.7	85.1	84.5	84.0	83.4	82.8	82.3
43	87.6	87.0	86.4	85.9	85.3	84.8	84.2	83.6	83.1	82.5
44	87.7	87.2	86.6	86.1	85.5	85.0	84.4	83.9	83.3	82.8
45	87.9	87.4	86.8	86.3	85.7	85.2	84.6	84.1	83.5	83.0
46	88.1	87.5	87.0	86.4	85.9	85.4	84.8	84.3	83.8	83.2
47	88.2	87.7	87.1	86.6	86.1	85.5	85.0	84.5	84.0	83.4
48	88.4	87.8	87.3	86.8	86.3	85.7	85.2	84.7	84.2	83.7
49	88.5	88.0	87.5	86.9	86.4	85.9	85.4	84.9	84.4	83.9
50	88.6	88.1	87.6	87.1	86.6	86.1	85.6	85.1	84.6	84.0
51	88.8	88.3	87.8	87.2	86.7	86.2	85.7	85.2	84.7	84.2
52	88.9	88.4	87.9	87.4	86.9	86.4	85.9	85.4	84.9	84.4
53	89.0	88.5	88.0	87.5	87.0	86.5	86.1	85.6	85.1	84.6
54	89.2	88.7	88.2	87.7	87.2	86.7	86.2	85.7	85.2	84.8
55	89.3	88.8	88.3	87.8	87.3	86.8	86.4	85.9	85.4	84.9
56	89.4	88.9	88.4	87.9	87.5	87.0	86.5	86.0	85.6	85.1
57	89.5	89.0	88.5	88.1	87.6	87.1	86.6	86.2	85.7	85.2

表 3a$_2$（续）

t \ $t-t_w$	2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9	3.0
58	89.6	89.1	88.7	88.2	87.7	87.2	86.8	86.3	85.9	85.4
59	89.7	89.2	88.8	88.3	87.8	87.4	86.9	86.5	86.0	85.5
60	89.8	89.3	88.9	88.4	88.0	87.5	87.0	86.6	86.1	85.7
61	89.9	89.5	89.0	88.5	88.1	87.6	87.2	86.7	86.3	85.8
62	90.0	89.6	89.1	88.6	88.2	87.7	87.3	86.8	86.4	86.0
63	90.1	89.7	89.2	88.8	88.3	87.9	87.4	87.0	86.5	86.1
64	90.2	89.8	89.3	88.9	88.4	88.0	87.5	87.1	86.7	86.2
65	90.3	89.8	89.4	89.0	88.5	88.1	87.6	87.2	86.8	86.3
66	90.4	89.9	89.5	89.1	88.6	88.2	87.8	87.3	86.9	86.5
67	90.5	90.0	89.6	89.2	88.7	88.3	87.9	87.4	87.0	86.6
68	90.5	90.1	89.7	89.3	88.8	88.4	88.0	87.5	87.1	86.7
69	90.6	90.2	89.8	89.3	88.9	88.5	88.1	87.7	87.2	86.8
70	90.7	90.3	89.9	89.4	89.0	88.6	88.2	87.8	87.3	86.9
71	90.8	90.4	89.9	89.5	89.1	88.7	88.3	87.9	87.5	87.0
72	90.9	90.4	90.0	89.6	89.2	88.8	88.4	88.0	87.6	87.1
73	90.9	90.5	90.1	89.7	89.3	88.9	88.5	88.1	87.7	87.3
74	91.0	90.6	90.2	89.8	89.4	89.0	88.6	88.2	87.8	87.4
75	91.1	90.7	90.3	89.9	89.5	89.1	88.7	88.3	87.9	87.5
76	91.2	90.8	90.4	89.9	89.5	89.1	88.7	88.3	88.0	87.6
77	91.2	90.8	90.4	90.0	89.6	89.2	88.8	88.4	88.0	87.7
78	91.3	90.9	90.5	90.1	89.7	89.3	88.9	88.5	88.1	87.8
79	91.4	91.0	90.6	90.2	89.8	89.4	89.0	88.6	88.2	87.8
80	91.4	91.0	90.6	90.3	89.9	89.5	89.1	88.7	88.3	87.9
81	91.5	91.1	90.7	90.3	89.9	89.6	89.2	88.8	88.4	88.0
82	91.6	91.2	90.8	90.4	90.0	89.6	89.3	88.9	88.5	88.1
83	91.6	91.2	90.9	90.5	90.1	89.7	89.3	89.0	88.6	88.2
84	91.7	91.3	90.9	90.5	90.2	89.8	89.4	89.0	88.7	88.3
85	91.7	91.4	91.0	90.6	90.2	89.9	89.5	89.1	88.7	88.4
86	91.8	91.4	91.1	90.7	90.3	89.9	89.6	89.2	88.8	88.5
87	91.9	91.5	91.1	90.7	90.4	90.0	89.6	89.3	88.9	88.5
88	91.9	91.6	91.2	90.8	90.4	90.1	89.7	89.4	89.0	88.6
89	92.0	91.6	91.2	90.9	90.5	90.2	89.8	89.4	89.1	88.7
90	92.0	91.7	91.3	90.9	90.6	90.2	89.9	89.5	89.1	88.8
91	92.1	91.7	91.4	91.0	90.6	90.3	89.9	89.6	89.2	88.9
92	92.2	91.8	91.4	91.1	90.7	90.4	90.0	89.6	89.3	88.9
93	92.2	91.8	91.5	91.1	90.8	90.4	90.1	89.7	89.4	89.0
94	92.3	91.9	91.5	91.2	90.8	90.5	90.1	89.8	89.4	89.1
95	92.3	92.0	91.6	91.3	90.9	90.6	90.2	89.9	89.5	89.2
96	92.4	92.0	91.7	91.3	91.0	90.6	90.3	89.9	89.6	89.2
97	92.4	92.1	91.7	91.4	91.0	90.7	90.3	90.0	89.6	89.3
98	92.5	92.1	91.8	91.4	91.1	90.7	90.4	90.1	89.7	89.4
99	92.5	92.2	91.8	91.5	91.1	90.8	90.5	90.1	89.8	89.4
100	92.6	92.2	91.9	91.5	91.2	90.9	90.5	90.2	89.8	89.5

表 3a₂（续）

t－t_w t	3.1	3.2	3.3	3.4	3.5	3.6	3.7	3.8	3.9	4.0
15	66.9	65.9	64.8	63.8	62.8	61.8	60.8	59.8	58.8	57.8
16	67.9	66.9	66.0	65.0	64.0	63.0	62.1	61.1	60.1	59.2
17	68.9	68.0	67.0	66.1	65.1	64.2	63.2	62.3	61.4	60.5
18	69.8	68.9	68.0	67.1	66.2	65.3	64.3	63.4	62.5	61.6
19	70.7	69.8	68.9	68.0	67.1	66.3	65.4	64.5	63.6	62.8
20	71.5	70.7	69.8	68.9	68.1	67.2	66.4	65.5	64.6	63.8
21	72.3	71.5	70.6	69.8	68.9	68.1	67.3	66.4	65.6	64.8
22	73.0	72.2	71.4	70.6	69.7	68.9	68.1	67.3	66.5	65.7
23	73.7	72.9	72.1	71.3	70.5	69.7	68.9	68.2	67.4	66.6
24	74.4	73.6	72.8	72.0	71.2	70.5	69.7	68.9	68.2	67.4
25	75.0	74.2	73.4	72.7	71.9	71.2	70.4	69.7	68.9	68.2
26	75.5	74.8	74.1	73.3	72.6	71.8	71.1	70.4	69.7	68.9
27	76.1	75.4	74.6	73.9	73.2	72.5	71.8	71.1	70.3	69.6
28	76.6	75.9	75.2	74.5	73.8	73.1	72.4	71.7	71.0	70.3
29	77.1	76.4	75.7	75.0	74.3	73.6	73.0	72.3	71.6	70.9
30	77.6	76.9	76.2	75.5	74.9	74.2	73.5	72.9	72.2	71.5
31	78.0	77.3	76.7	76.0	75.4	74.7	74.0	73.4	72.7	72.1
32	78.4	77.8	77.1	76.5	75.8	75.2	74.5	73.9	73.3	72.6
33	78.8	78.2	77.6	76.9	76.3	75.6	75.0	74.4	73.8	73.1
34	79.2	78.6	78.0	77.3	76.7	76.1	75.5	74.9	74.2	73.6
35	79.6	79.0	78.3	77.7	77.1	76.5	75.9	75.3	74.7	74.1
36	79.9	79.3	78.7	78.1	77.5	76.9	76.3	75.7	75.1	74.5
37	80.3	79.7	79.1	78.5	77.9	77.3	76.7	76.1	75.5	75.0
38	80.6	80.0	79.4	78.8	78.2	77.7	77.1	76.5	75.9	75.4
39	80.9	80.3	79.7	79.2	78.6	78.0	77.4	76.9	76.3	75.8
40	81.2	80.6	80.0	79.5	78.9	78.4	77.8	77.2	76.7	76.1
41	81.5	80.9	80.3	79.8	79.2	78.7	78.1	77.6	77.0	76.5
42	81.7	81.2	80.6	80.1	79.5	79.0	78.4	77.9	77.4	76.8
43	82.0	81.4	80.9	80.4	79.8	79.3	78.7	78.2	77.7	77.1
44	82.2	81.7	81.2	80.6	80.1	79.6	79.0	78.5	78.0	77.5
45	82.5	81.9	81.4	80.9	80.4	79.8	79.3	78.8	78.3	77.8
46	82.7	82.2	81.7	81.1	80.6	80.1	79.6	79.1	78.6	78.1
47	82.9	82.4	81.9	81.4	80.9	80.4	79.9	79.3	78.8	78.3
48	83.1	82.6	82.1	81.6	81.1	80.6	80.1	79.6	79.1	78.6
49	83.3	82.8	82.3	81.8	81.3	80.8	80.3	79.9	79.4	78.9
50	83.5	83.0	82.6	82.1	81.6	81.1	80.6	80.1	79.6	79.1
51	83.7	83.2	82.8	82.3	81.8	81.3	80.8	80.3	79.8	79.4
52	83.9	83.4	83.0	82.5	82.0	81.5	81.0	80.6	80.1	79.6
53	84.1	83.6	83.1	82.7	82.2	81.7	81.2	80.8	80.3	79.8
54	84.3	83.8	83.3	82.9	82.4	81.9	81.4	81.0	80.5	80.1
55	84.5	84.0	83.5	83.0	82.6	82.1	81.6	81.2	80.7	80.3
56	84.6	84.2	83.7	83.2	82.8	82.3	81.8	81.4	80.9	80.5
57	84.8	84.3	83.9	83.4	82.9	82.5	82.0	81.6	81.1	80.7

表 3a₂（续）

$t-t_w$ / t	3.1	3.2	3.3	3.4	3.5	3.6	3.7	3.8	3.9	4.0
58	84.9	84.5	84.0	83.6	83.1	82.7	82.2	81.8	81.3	80.9
59	85.1	84.6	84.2	83.7	83.3	82.8	82.4	81.9	81.5	81.1
60	85.2	84.8	84.3	83.9	83.4	83.0	82.6	82.1	81.7	81.3
61	85.4	84.9	84.5	84.0	83.6	83.2	82.7	82.3	81.9	81.4
62	85.5	85.1	84.6	84.2	83.8	83.3	82.9	82.5	82.0	81.6
63	85.7	85.2	84.8	84.3	83.9	83.5	83.1	82.6	82.2	81.8
64	85.8	85.4	84.9	84.5	84.1	83.6	83.2	82.8	82.4	81.9
65	85.9	85.5	85.1	84.6	84.2	83.8	83.4	82.9	82.5	82.1
66	86.0	85.6	85.2	84.8	84.3	83.9	83.5	83.1	82.7	82.3
67	86.2	85.7	85.3	84.9	84.5	84.1	83.7	83.2	82.8	82.4
68	86.3	85.9	85.5	85.0	84.6	84.2	83.8	83.4	83.0	82.6
69	86.4	86.0	85.6	85.2	84.8	84.3	83.9	83.5	83.1	82.7
70	86.5	86.1	85.7	85.3	84.9	84.5	84.1	83.7	83.3	82.9
71	86.6	86.2	85.8	85.4	85.0	84.6	84.2	83.8	83.4	83.0
72	86.7	86.3	85.9	85.5	85.1	84.7	84.3	83.9	83.5	83.2
73	86.9	86.5	86.1	85.7	85.3	84.9	84.5	84.1	83.7	83.3
74	87.0	86.6	86.2	85.8	85.4	85.0	84.6	84.2	83.8	83.4
75	87.1	86.7	86.3	85.9	85.5	85.1	84.7	84.3	83.9	83.6
76	87.2	86.8	86.4	86.0	85.6	85.2	84.8	84.4	84.1	83.7
77	87.3	86.9	86.5	86.1	85.7	85.3	85.0	84.6	84.2	83.8
78	87.4	87.0	86.6	86.2	85.8	85.4	85.1	84.7	84.3	83.9
79	87.5	87.1	86.7	86.3	85.9	85.6	85.2	84.8	84.4	84.1
80	87.6	87.2	86.8	86.4	86.0	85.7	85.3	84.9	84.5	84.2
81	87.7	87.3	86.9	86.5	86.1	85.8	85.4	85.0	84.7	84.3
82	87.7	87.4	87.0	86.6	86.2	85.9	85.5	85.1	84.8	84.4
83	87.8	87.5	87.1	86.7	86.4	86.0	85.6	85.3	84.9	84.5
84	87.9	87.6	87.2	86.8	86.4	86.1	85.7	85.4	85.0	84.6
85	88.0	87.6	87.3	86.9	86.5	86.2	85.8	85.5	85.1	84.7
86	88.1	87.7	87.4	87.0	86.6	86.3	85.9	85.6	85.2	84.9
87	88.2	87.8	87.5	87.1	86.7	86.4	86.0	85.7	85.3	85.0
88	88.3	87.9	87.5	87.2	86.8	86.5	86.1	85.8	85.4	85.1
89	88.3	88.0	87.6	87.3	86.9	86.6	86.2	85.9	85.5	85.2
90	88.4	88.1	87.7	87.4	87.0	86.7	86.3	86.0	85.6	85.3
91	88.5	88.2	87.8	87.5	87.1	86.8	86.4	86.1	85.7	85.4
92	88.6	88.2	87.9	87.5	87.2	86.8	86.5	86.2	85.8	85.5
93	88.7	88.3	88.0	87.6	87.3	86.9	86.6	86.3	85.9	85.6
94	88.7	88.4	88.1	87.7	87.4	87.0	86.7	86.3	86.0	85.7
95	88.8	88.5	88.1	87.8	87.4	87.1	86.8	86.4	86.1	85.8
96	88.9	88.6	88.2	87.9	87.5	87.2	86.9	86.5	86.2	85.9
97	89.0	88.6	88.3	88.0	87.6	87.3	86.9	86.6	86.3	85.9
98	89.0	88.7	88.4	88.0	87.7	87.4	87.0	86.7	86.4	86.0
99	89.1	88.8	88.4	88.1	87.8	87.4	87.1	86.8	86.5	86.1
100	89.2	88.8	88.5	88.2	87.9	87.5	87.2	86.9	86.5	86.2

表 3a₂（续）

t $\diagdown$ t−t_w	4.1	4.2	4.3	4.4	4.5	4.6	4.7	4.8	4.9	5.0
15	56.9	55.9	54.9	53.9	52.9	52.0	51.0	50.0	49.1	48.1
16	58.2	57.3	56.3	55.4	54.4	53.5	52.6	51.6	50.7	49.8
17	59.5	58.6	57.7	56.8	55.9	54.9	54.0	53.1	52.2	51.3
18	60.7	59.9	59.0	58.1	57.2	56.3	55.4	54.5	53.7	52.8
19	61.9	61.0	60.2	59.3	58.4	57.6	56.7	55.9	55.0	54.2
20	63.0	62.1	61.3	60.4	59.6	58.8	58.0	57.1	56.3	55.5
21	64.0	63.2	62.3	61.5	60.7	59.9	59.1	58.3	57.5	56.7
22	64.9	64.1	63.3	62.5	61.8	61.0	60.2	59.4	58.6	57.9
23	65.8	65.0	64.3	63.5	62.7	62.0	61.2	60.5	59.7	58.9
24	66.7	65.9	65.2	64.4	63.7	62.9	62.2	61.4	60.7	60.0
25	67.5	66.7	66.0	65.3	64.5	63.8	63.1	62.4	61.6	60.9
26	68.2	67.5	66.8	66.1	65.4	64.7	63.9	63.2	62.5	61.8
27	68.9	68.2	67.5	66.8	66.1	65.5	64.8	64.1	63.4	62.7
28	69.6	68.9	68.2	67.6	66.9	66.2	65.5	64.9	64.2	63.5
29	70.3	69.6	68.9	68.2	67.6	66.9	66.3	65.6	65.0	64.3
30	70.9	70.2	69.6	68.9	68.3	67.6	67.0	66.3	65.7	65.0
31	71.4	70.8	70.2	69.5	68.9	68.2	67.6	67.0	66.4	65.7
32	72.0	71.4	70.7	70.1	69.5	68.9	68.2	67.6	67.0	66.4
33	72.5	71.9	71.3	70.7	70.1	69.4	68.8	68.2	67.6	67.0
34	73.0	72.4	71.8	71.2	70.6	70.0	69.4	68.8	68.2	67.6
35	73.5	72.9	72.3	71.7	71.1	70.5	69.9	69.4	68.8	68.2
36	73.9	73.4	72.8	72.2	71.6	71.0	70.5	69.9	69.3	68.7
37	74.4	73.8	73.2	72.7	72.1	71.5	71.0	70.4	69.8	69.3
38	74.8	74.2	73.7	73.1	72.5	72.0	71.4	70.9	70.3	69.8
39	75.2	74.6	74.1	73.5	73.0	72.4	71.9	71.3	70.8	70.2
40	75.6	75.0	74.5	73.9	73.4	72.8	72.3	71.8	71.2	70.7
41	75.9	75.4	74.9	74.3	73.8	73.2	72.7	72.2	71.7	71.1
42	76.3	75.8	75.2	74.7	74.2	73.6	73.1	72.6	72.1	71.6
43	76.6	76.1	75.6	75.0	74.5	74.0	73.5	73.0	72.5	72.0
44	76.9	76.4	75.9	75.4	74.9	74.4	73.9	73.4	72.8	72.3
45	77.3	76.7	76.2	75.7	75.2	74.7	74.2	73.7	73.2	72.7
46	77.5	77.0	76.5	76.0	75.5	75.0	74.5	74.1	73.6	73.1
47	77.8	77.3	76.8	76.3	75.9	75.4	74.9	74.4	73.9	73.4
48	78.1	77.6	77.1	76.6	76.2	75.7	75.2	74.7	74.2	73.7
49	78.4	77.9	77.4	76.9	76.4	76.0	75.5	75.0	74.5	74.1
50	78.6	78.2	77.7	77.2	76.7	76.3	75.8	75.3	74.8	74.4
51	78.9	78.4	77.9	77.5	77.0	76.5	76.1	75.6	75.1	74.7
52	79.1	78.7	78.2	77.7	77.3	76.8	76.3	75.9	75.4	75.0
53	79.4	78.9	78.4	78.0	77.5	77.1	76.6	76.1	75.7	75.2
54	79.6	79.1	78.7	78.2	77.8	77.3	76.9	76.4	76.0	75.5
55	79.8	79.4	78.9	78.5	78.0	77.6	77.1	76.7	76.2	75.8
56	80.0	79.6	79.1	78.7	78.2	77.8	77.3	76.9	76.5	76.0
57	80.2	79.8	79.3	78.9	78.5	78.0	77.6	77.1	76.7	76.3

表 3a₂（续）

表 3a₂（续）

$t-t_w$　　t	4.1	4.2	4.3	4.4	4.5	4.6	4.7	4.8	4.9	5.0
58	80.4	80.0	79.5	79.1	78.7	78.2	77.8	77.4	76.9	76.5
59	80.6	80.2	79.8	79.3	78.9	78.5	78.0	77.6	77.2	76.8
60	80.8	80.4	80.0	79.5	79.1	78.7	78.2	77.8	77.4	77.0
61	81.0	80.6	80.1	79.7	79.3	78.9	78.5	78.0	77.6	77.2
62	81.2	80.8	80.3	79.9	79.5	79.1	78.7	78.2	77.8	77.4
63	81.4	80.9	80.5	80.1	79.7	79.3	78.9	78.4	78.0	77.6
64	81.5	81.1	80.7	80.3	79.9	79.5	79.0	78.6	78.2	77.8
65	81.7	81.3	80.9	80.5	80.0	79.6	79.2	78.8	78.4	78.0
66	81.9	81.4	81.0	80.6	80.2	79.8	79.4	79.0	78.6	78.2
67	82.0	81.6	81.2	80.8	80.4	80.0	79.6	79.2	78.8	78.4
68	82.2	81.8	81.4	81.0	80.6	80.2	79.8	79.4	79.0	78.6
69	82.3	81.9	81.5	81.1	80.7	80.3	79.9	79.6	79.2	78.8
70	82.5	82.1	81.7	81.3	80.9	80.5	80.1	79.7	79.3	79.0
71	82.6	82.2	81.8	81.4	81.1	80.7	80.3	79.9	79.5	79.1
72	82.8	82.4	82.0	81.6	81.2	80.8	80.4	80.1	79.7	79.3
73	82.9	82.5	82.1	81.7	81.4	81.0	80.6	80.2	79.8	79.5
74	83.0	82.7	82.3	81.9	81.5	81.1	80.8	80.4	80.0	79.6
75	83.2	82.8	82.4	82.0	81.7	81.3	80.9	80.5	80.2	79.8
76	83.3	82.9	82.5	82.2	81.8	81.4	81.0	80.7	80.3	79.9
77	83.4	83.1	82.7	82.3	81.9	81.6	81.2	80.8	80.5	80.1
78	83.6	83.2	82.8	82.4	82.1	81.7	81.3	81.0	80.6	80.2
79	83.7	83.3	82.9	82.6	82.2	81.8	81.5	81.1	80.8	80.4
80	83.8	83.4	83.1	82.7	82.3	82.0	81.6	81.3	80.9	80.5
81	83.9	83.6	83.2	82.8	82.5	82.1	81.8	81.4	81.0	80.7
82	84.0	83.7	83.3	83.0	82.6	82.2	81.9	81.5	81.2	80.8
83	84.2	83.8	83.4	83.1	82.7	82.4	82.0	81.7	81.3	81.0
84	84.3	83.9	83.6	83.2	82.9	82.5	82.1	81.8	81.4	81.1
85	84.4	84.0	83.7	83.3	83.0	82.6	82.3	81.9	81.6	81.2
86	84.5	84.1	83.8	83.4	83.1	82.7	82.4	82.1	81.7	81.4
87	84.6	84.3	83.9	83.6	83.2	82.9	82.5	82.2	81.8	81.5
88	84.7	84.4	84.0	83.7	83.3	83.0	82.6	82.3	82.0	81.6
89	84.8	84.5	84.1	83.8	83.4	83.1	82.8	82.4	82.1	81.7
90	84.9	84.6	84.2	83.9	83.6	83.2	82.9	82.5	82.2	81.9
91	85.0	84.7	84.3	84.0	83.7	83.3	83.0	82.7	82.3	82.0
92	85.1	84.8	84.5	84.1	83.8	83.4	83.1	82.8	82.4	82.1
93	85.2	84.9	84.6	84.2	83.9	83.6	83.2	82.9	82.6	82.2
94	85.3	85.0	84.7	84.3	84.0	83.7	83.3	83.0	82.7	82.3
95	85.4	85.1	84.8	84.4	84.1	83.8	83.4	83.1	82.8	82.5
96	85.5	85.2	84.9	84.5	84.2	83.9	83.6	83.2	82.9	82.6
97	85.6	85.3	85.0	84.6	84.3	84.0	83.7	83.3	83.0	82.7
98	85.7	85.4	85.1	84.7	84.4	84.1	83.8	83.4	83.1	82.8
99	85.8	85.5	85.2	84.8	84.5	84.2	83.9	83.5	83.2	82.9
100	85.9	85.6	85.2	84.9	84.6	84.3	84.0	83.7	83.3	83.0

表 3a₂（续）

$t-t_w$ / t	5.2	5.4	5.6	5.8	6.0	6.2	6.4	6.6	6.8	7.0
15	46.2	44.3	42.4	40.5	38.6	36.8	34.9	33.1	31.2	29.4
16	47.9	46.1	44.2	42.4	40.6	38.8	37.0	35.3	33.5	31.7
17	49.5	47.8	46.0	44.2	42.5	40.8	39.0	37.3	35.6	33.9
18	51.1	49.3	47.6	45.9	44.2	42.6	40.9	39.2	37.6	35.9
19	52.5	50.8	49.2	47.5	45.9	44.3	42.6	41.0	39.4	37.8
20	53.9	52.2	50.6	49.0	47.4	45.9	44.3	42.7	41.2	39.6
21	55.1	53.5	52.0	50.4	48.9	47.4	45.8	44.3	42.8	41.3
22	56.3	54.8	53.3	51.8	50.3	48.8	47.3	45.8	44.4	42.9
23	57.4	56.0	54.5	53.0	51.5	50.1	48.7	47.2	45.8	44.4
24	58.5	57.1	55.6	54.2	52.8	51.3	49.9	48.6	47.2	45.8
25	59.5	58.1	56.7	55.3	53.9	52.5	51.2	49.8	48.5	47.1
26	60.5	59.1	57.7	56.3	55.0	53.7	52.3	51.0	49.7	48.4
27	61.4	60.0	58.7	57.3	56.0	54.7	53.4	52.1	50.8	49.6
28	62.2	60.9	59.6	58.3	57.0	55.7	54.4	53.2	51.9	50.7
29	63.0	61.7	60.4	59.2	57.9	56.7	55.4	54.2	53.0	51.7
30	63.8	62.5	61.3	60.0	58.8	57.6	56.3	55.1	53.9	52.7
31	64.5	63.3	62.0	60.8	59.6	58.4	57.2	56.0	54.9	53.7
32	65.2	64.0	62.8	61.6	60.4	59.2	58.1	56.9	55.7	54.6
33	65.8	64.6	63.5	62.3	61.1	60.0	58.8	57.7	56.6	55.5
34	66.5	65.3	64.1	63.0	61.9	60.7	59.6	58.5	57.4	56.3
35	67.1	65.9	64.8	63.6	62.5	61.4	60.3	59.2	58.1	57.1
36	67.6	66.5	65.4	64.3	63.2	62.1	61.0	59.9	58.9	57.8
37	68.2	67.1	66.0	64.9	63.8	62.7	61.7	60.6	59.6	58.5
38	68.7	67.6	66.5	65.4	64.4	63.3	62.3	61.2	60.2	59.2
39	69.2	68.1	67.0	66.0	64.9	63.9	62.9	61.9	60.8	59.8
40	69.6	68.6	67.5	66.5	65.5	64.5	63.4	62.4	61.4	60.5
41	70.1	69.1	68.0	67.0	66.0	65.0	64.0	63.0	62.0	61.0
42	70.5	69.5	68.5	67.5	66.5	65.5	64.5	63.5	62.6	61.6
43	70.9	69.9	68.9	67.9	67.0	66.0	65.0	64.1	63.1	62.2
44	71.3	70.4	69.4	68.4	67.4	66.5	65.5	64.6	63.6	62.7
45	71.7	70.7	69.8	68.8	67.9	66.9	66.0	65.0	64.1	63.2
46	72.1	71.1	70.2	69.2	68.3	67.3	66.4	65.5	64.6	63.7
47	72.5	71.5	70.6	69.6	68.7	67.8	66.8	65.9	65.0	64.1
48	72.8	71.9	70.9	70.0	69.1	68.2	67.2	66.3	65.5	64.6
49	73.1	72.2	71.3	70.4	69.4	68.5	67.6	66.8	65.9	65.0
50	73.5	72.5	71.6	70.7	69.8	68.9	68.0	67.2	66.3	65.4
51	73.8	72.8	71.9	71.1	70.2	69.3	68.4	67.5	66.7	65.8
52	74.1	73.2	72.3	71.4	70.5	69.6	68.8	67.9	67.0	66.2
53	74.3	73.5	72.6	71.7	70.8	70.0	69.1	68.3	67.4	66.6
54	74.6	73.7	72.9	72.0	71.1	70.3	69.4	68.6	67.8	66.9
55	74.9	74.0	73.2	72.3	71.5	70.6	69.8	68.9	68.1	67.3
56	75.2	74.3	73.4	72.6	71.8	70.9	70.1	69.3	68.4	67.6
57	75.4	74.6	73.7	72.9	72.0	71.2	70.4	69.6	68.8	68.0

表 3a$_2$（续）

t \ $t-t_w$	5.2	5.4	5.6	5.8	6.0	6.2	6.4	6.6	6.8	7.0
58	75.7	74.8	74.0	73.1	72.3	71.5	70.7	69.9	69.1	68.3
59	75.9	75.1	74.2	73.4	72.6	71.8	71.0	70.2	69.4	68.6
60	76.1	75.3	74.5	73.7	72.9	72.1	71.3	70.5	69.7	68.9
61	76.4	75.5	74.7	73.9	73.1	72.3	71.5	70.7	70.0	69.2
62	76.6	75.8	75.0	74.2	73.4	72.6	71.8	71.0	70.2	69.5
63	76.8	76.0	75.2	74.4	73.6	72.8	72.0	71.3	70.5	69.7
64	77.0	76.2	75.4	74.6	73.9	73.1	72.3	71.5	70.8	70.0
65	77.2	76.4	75.6	74.9	74.1	73.3	72.5	71.8	71.0	70.3
66	77.4	76.6	75.9	75.1	74.3	73.5	72.8	72.0	71.3	70.5
67	77.6	76.8	76.1	75.3	74.5	73.8	73.0	72.3	71.5	70.8
68	77.8	77.0	76.3	75.5	74.7	74.0	73.2	72.5	71.8	71.0
69	78.0	77.2	76.5	75.7	75.0	74.2	73.5	72.7	72.0	71.3
70	78.2	77.4	76.7	75.9	75.2	74.4	73.7	73.0	72.2	71.5
71	78.4	77.6	76.9	76.1	75.4	74.6	73.9	73.2	72.5	71.7
72	78.5	77.8	77.0	76.3	75.6	74.8	74.1	73.4	72.7	72.0
73	78.7	78.0	77.2	76.5	75.8	75.0	74.3	73.6	72.9	72.2
74	78.9	78.1	77.4	76.7	76.0	75.2	74.5	73.8	73.1	72.4
75	79.0	78.3	77.6	76.9	76.1	75.4	74.7	74.0	73.3	72.6
76	79.2	78.5	77.8	77.0	76.3	75.6	74.9	74.2	73.5	72.8
77	79.4	78.6	77.9	77.2	76.5	75.8	75.1	74.4	73.7	73.0
78	79.5	78.8	78.1	77.4	76.7	76.0	75.3	74.6	73.9	73.2
79	79.7	79.0	78.3	77.5	76.9	76.2	75.5	74.8	74.1	73.4
80	79.8	79.1	78.4	77.7	77.0	76.3	75.6	75.0	74.3	73.6
81	80.0	79.3	78.6	77.9	77.2	76.5	75.8	75.1	74.5	73.8
82	80.1	79.4	78.7	78.0	77.4	76.7	76.0	75.3	74.7	74.0
83	80.3	79.6	78.9	78.2	77.5	76.8	76.2	75.5	74.8	74.2
84	80.4	79.7	79.0	78.3	77.7	77.0	76.3	75.7	75.0	74.4
85	80.5	79.9	79.2	78.5	77.8	77.2	76.5	75.8	75.2	74.5
86	80.7	80.0	79.3	78.6	78.0	77.3	76.7	76.0	75.4	74.7
87	80.8	80.1	79.5	78.8	78.1	77.5	76.8	76.2	75.5	74.9
88	80.9	80.3	79.6	78.9	78.3	77.6	77.0	76.3	75.7	75.0
89	81.1	80.4	79.7	79.1	78.4	77.8	77.1	76.5	75.9	75.2
90	81.2	80.5	79.9	79.2	78.6	77.9	77.3	76.6	76.0	75.4
91	81.3	80.7	80.0	79.4	78.7	78.1	77.4	76.8	76.2	75.5
92	81.5	80.8	80.1	79.5	78.9	78.2	77.6	77.0	76.3	75.7
93	81.6	80.9	80.3	79.6	79.0	78.4	77.7	77.1	76.5	75.9
94	81.7	81.1	80.4	79.8	79.1	78.5	77.9	77.2	76.6	76.0
95	81.8	81.2	80.5	79.9	79.3	78.6	78.0	77.4	76.8	76.2
96	81.9	81.3	80.7	80.0	79.4	78.8	78.2	77.5	76.9	76.3
97	82.1	81.4	80.8	80.2	79.5	78.9	78.3	77.7	77.1	76.5
98	82.2	81.5	80.9	80.3	79.7	79.0	78.4	77.8	77.2	76.6
99	82.3	81.7	81.0	80.4	79.8	79.2	78.6	78.0	77.4	76.8
100	82.4	81.8	81.1	80.5	79.9	79.3	78.7	78.1	77.5	76.9

表 3a₂（续）

$t-t_w$ t	7.2	7.4	7.6	7.8	8.0	8.2	8.4	8.6	8.8	9.0
15	27.6	25.8	24.0	22.3	20.5	18.7	17.0	15.2	13.5	11.8
16	30.0	28.3	26.5	24.8	23.1	21.4	19.7	18.1	16.4	14.7
17	32.2	30.5	28.9	27.2	25.6	23.9	22.3	20.7	19.1	17.5
18	34.3	32.7	31.1	29.5	27.9	26.3	24.7	23.2	21.6	20.1
19	36.3	34.7	33.1	31.6	30.0	28.5	27.0	25.5	24.0	22.5
20	38.1	36.6	35.1	33.6	32.1	30.6	29.1	27.6	26.2	24.7
21	39.8	38.4	36.9	35.4	34.0	32.5	31.1	29.7	28.3	26.9
22	41.5	40.0	38.6	37.2	35.8	34.4	33.0	31.6	30.2	28.9
23	43.0	41.6	40.2	38.8	37.5	36.1	34.8	33.4	32.1	30.8
24	44.4	43.1	41.7	40.4	39.1	37.7	36.4	35.1	33.8	32.5
25	45.8	44.5	43.2	41.9	40.6	39.3	38.0	36.7	35.5	34.2
26	47.1	45.8	44.5	43.2	42.0	40.7	39.5	38.2	37.0	35.8
27	48.3	47.0	45.8	44.6	43.3	42.1	40.9	39.7	38.5	37.3
28	49.4	48.2	47.0	45.8	44.6	43.4	42.2	41.0	39.9	38.7
29	50.5	49.3	48.1	47.0	45.8	44.6	43.5	42.3	41.2	40.0
30	51.6	50.4	49.2	48.1	46.9	45.8	44.7	43.5	42.4	41.3
31	52.5	51.4	50.3	49.1	48.0	46.9	45.8	44.7	43.6	42.5
32	53.5	52.3	51.2	50.1	49.0	47.9	46.8	45.8	44.7	43.6
33	54.4	53.3	52.2	51.1	50.0	48.9	47.9	46.8	45.8	44.7
34	55.2	54.1	53.0	52.0	50.9	49.9	48.8	47.8	46.8	45.7
35	56.0	54.9	53.9	52.8	51.8	50.8	49.7	48.7	47.7	46.7
36	56.8	55.7	54.7	53.7	52.6	51.6	50.6	49.6	48.6	47.6
37	57.5	56.5	55.4	54.4	53.4	52.4	51.4	50.5	49.5	48.5
38	58.2	57.2	56.2	55.2	54.2	53.2	52.2	51.3	50.3	49.4
39	58.8	57.8	56.9	55.9	54.9	54.0	53.0	52.1	51.1	50.2
40	59.5	58.5	57.5	56.6	55.6	54.7	53.7	52.8	51.9	51.0
41	60.1	59.1	58.2	57.2	56.3	55.3	54.4	53.5	52.6	51.7
42	60.7	59.7	58.8	57.8	56.9	56.0	55.1	54.2	53.3	52.4
43	61.2	60.3	59.4	58.4	57.5	56.6	55.7	54.8	53.9	53.1
44	61.7	60.8	59.9	59.0	58.1	57.2	56.3	55.5	54.6	53.7
45	62.3	61.4	60.5	59.6	58.7	57.8	56.9	56.1	55.2	54.3
46	62.8	61.9	61.0	60.1	59.2	58.3	57.5	56.6	55.8	54.9
47	63.2	62.3	61.5	60.6	59.7	58.9	58.0	57.2	56.3	55.5
48	63.7	62.8	61.9	61.1	60.2	59.4	58.5	57.7	56.9	56.1
49	64.1	63.3	62.4	61.6	60.7	59.9	59.0	58.2	57.4	56.6
50	64.6	63.7	62.9	62.0	61.2	60.4	59.5	58.7	57.9	57.1
51	65.0	64.1	63.3	62.5	61.6	60.8	60.0	59.2	58.4	57.6
52	65.4	64.5	63.7	62.9	62.1	61.3	60.5	59.7	58.9	58.1
53	65.7	64.9	64.1	63.3	62.5	61.7	60.9	60.1	59.3	58.5
54	66.1	65.3	64.5	63.7	62.9	62.1	61.3	60.5	59.8	59.0
55	66.5	65.7	64.9	64.1	63.3	62.5	61.7	60.9	60.2	59.4
56	66.8	66.0	65.2	64.4	63.7	62.9	62.1	61.3	60.6	59.8
57	67.2	66.4	65.6	64.8	64.0	63.3	62.5	61.7	61.0	60.2

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表 3a$_2$（续）

t ＼ $t-t_w$	7.2	7.4	7.6	7.8	8.0	8.2	8.4	8.6	8.8	9.0
58	67.5	66.7	65.9	65.2	64.4	63.6	62.9	62.1	61.4	60.6
59	67.8	67.0	66.3	65.5	64.7	64.0	63.2	62.5	61.7	61.0
60	68.1	67.3	66.6	65.8	65.1	64.3	63.6	62.8	62.1	61.4
61	68.4	67.7	66.9	66.1	65.4	64.7	63.9	63.2	62.5	61.7
62	68.7	68.0	67.2	66.5	65.7	65.0	64.2	63.5	62.8	62.1
63	69.0	68.2	67.5	66.8	66.0	65.3	64.6	63.9	63.1	62.4
64	69.3	68.5	67.8	67.1	66.3	65.6	64.9	64.2	63.5	62.8
65	69.5	68.8	68.1	67.3	66.6	65.9	65.2	64.5	63.8	63.1
66	69.8	69.1	68.3	67.6	66.9	66.2	65.5	64.8	64.1	63.4
67	70.1	69.3	68.6	67.9	67.2	66.5	65.8	65.1	64.4	63.7
68	70.3	69.6	68.9	68.2	67.5	66.8	66.1	65.4	64.7	64.0
69	70.6	69.8	69.1	68.4	67.7	67.0	66.3	65.7	65.0	64.3
70	70.8	70.1	69.4	68.7	68.0	67.3	66.6	65.9	65.3	64.6
71	71.0	70.3	69.6	68.9	68.2	67.6	66.9	66.2	65.5	64.9
72	71.3	70.6	69.9	69.2	68.5	67.8	67.1	66.5	65.8	65.1
73	71.5	70.8	70.1	69.4	68.7	68.1	67.4	66.7	66.1	65.4
74	71.7	71.0	70.3	69.7	69.0	68.3	67.6	67.0	66.3	65.7
75	71.9	71.2	70.6	69.9	69.2	68.6	67.9	67.2	66.6	65.9
76	72.1	71.5	70.8	70.1	69.4	68.8	68.1	67.5	66.8	66.2
77	72.3	71.7	71.0	70.3	69.7	69.0	68.4	67.7	67.1	66.4
78	72.6	71.9	71.2	70.6	69.9	69.2	68.6	68.0	67.3	66.7
79	72.8	72.1	71.4	70.8	70.1	69.5	68.8	68.2	67.5	66.9
80	73.0	72.3	71.6	71.0	70.3	69.7	69.0	68.4	67.8	67.2
81	73.1	72.5	71.8	71.2	70.5	69.9	69.3	68.6	68.0	67.4
82	73.3	72.7	72.0	71.4	70.7	70.1	69.5	68.9	68.2	67.6
83	73.5	72.9	72.2	71.6	71.0	70.3	69.7	69.1	68.4	67.8
84	73.7	73.1	72.4	71.8	71.2	70.5	69.9	69.3	68.7	68.1
85	73.9	73.2	72.6	72.0	71.3	70.7	70.1	69.5	68.9	68.3
86	74.1	73.4	72.8	72.2	71.5	70.9	70.3	69.7	69.1	68.5
87	74.2	73.6	73.0	72.4	71.7	71.1	70.5	69.9	69.3	68.7
88	74.4	73.8	73.2	72.5	71.9	71.3	70.7	70.1	69.5	68.9
89	74.6	74.0	73.3	72.7	72.1	71.5	70.9	70.3	69.7	69.1
90	74.8	74.1	73.5	72.9	72.3	71.7	71.1	70.5	69.9	69.3
91	74.9	74.3	73.7	73.1	72.5	71.9	71.3	70.7	70.1	69.5
92	75.1	74.5	73.9	73.2	72.6	72.0	71.4	70.9	70.3	69.7
93	75.2	74.6	74.0	73.4	72.8	72.2	71.6	71.0	70.5	69.9
94	75.4	74.8	74.2	73.6	73.0	72.4	71.8	71.2	70.6	70.1
95	75.6	75.0	74.4	73.8	73.2	72.6	72.0	71.4	70.8	70.2
96	75.7	75.1	74.5	73.9	73.3	72.7	72.2	71.6	71.0	70.4
97	75.9	75.3	74.7	74.1	73.5	72.9	72.3	71.8	71.2	70.6
98	76.0	75.4	74.8	74.2	73.7	73.1	72.5	71.9	71.4	70.8
99	76.2	75.6	75.0	74.4	73.8	73.2	72.7	72.1	71.5	71.0
100	76.3	75.7	75.1	74.6	74.0	73.4	72.8	72.3	71.7	71.1

表 3a₂（续）

$t-t_w$ t	9.2	9.4	9.6	9.8	10.0	10.2	10.4	10.6	10.8	11.0
15	10.1	8.4	6.7	5.0	3.3	1.7	0.0			
16	13.1	11.4	9.8	8.2	6.6	5.0	3.4	1.8	0.2	
17	15.9	14.3	12.7	11.2	9.6	8.1	6.5	5.0	3.5	2.0
18	18.5	17.0	15.5	14.0	12.5	11.0	9.5	8.0	6.5	5.1
19	21.0	19.5	18.0	16.6	15.1	13.7	12.2	10.8	9.4	8.0
20	23.3	21.9	20.5	19.0	17.6	16.2	14.8	13.5	12.1	10.7
21	25.5	24.1	22.7	21.3	20.0	18.6	17.3	15.9	14.6	13.3
22	27.5	26.2	24.8	23.5	22.2	20.9	19.6	18.3	17.0	15.7
23	29.5	28.1	26.8	25.6	24.3	23.0	21.7	20.5	19.2	18.0
24	31.3	30.0	28.7	27.5	26.2	25.0	23.8	22.5	21.3	20.1
25	33.0	31.7	30.5	29.3	28.1	26.9	25.7	24.5	23.3	22.1
26	34.6	33.4	32.2	31.0	29.8	28.6	27.5	26.3	25.2	24.0
27	36.1	34.9	33.8	32.6	31.5	30.3	29.2	28.1	26.9	25.8
28	37.5	36.4	35.3	34.1	33.0	31.9	30.8	29.7	28.6	27.5
29	38.9	37.8	36.7	35.6	34.5	33.4	32.3	31.2	30.2	29.1
30	40.2	39.1	38.0	36.9	35.9	34.8	33.8	32.7	31.7	30.6
31	41.4	40.4	39.3	38.2	37.2	36.2	35.1	34.1	33.1	32.1
32	42.6	41.5	40.5	39.5	38.4	37.4	36.4	35.4	34.4	33.4
33	43.7	42.7	41.6	40.6	39.6	38.6	37.6	36.7	35.7	34.7
34	44.7	43.7	42.7	41.7	40.8	39.8	38.8	37.8	36.9	35.9
35	45.7	44.7	43.8	42.8	41.8	40.9	39.9	39.0	38.0	37.1
36	46.7	45.7	44.7	43.8	42.8	41.9	41.0	40.0	39.1	38.2
37	47.6	46.6	45.7	44.7	43.8	42.9	42.0	41.1	40.2	39.3
38	48.4	47.5	46.6	45.7	44.7	43.8	42.9	42.0	41.1	40.3
39	49.3	48.3	47.4	46.5	45.6	44.7	43.8	43.0	42.1	41.2
40	50.0	49.1	48.2	47.3	46.5	45.6	44.7	43.8	43.0	42.1
41	50.8	49.9	49.0	48.1	47.3	46.4	45.5	44.7	43.9	43.0
42	51.5	50.6	49.8	48.9	48.0	47.2	46.3	45.5	44.7	43.8
43	52.2	51.3	50.5	49.6	48.8	47.9	47.1	46.3	45.5	44.6
44	52.9	52.0	51.2	50.3	49.5	48.7	47.8	47.0	46.2	45.4
45	53.5	52.6	51.8	51.0	50.2	49.3	48.5	47.7	46.9	46.1
46	54.1	53.3	52.4	51.6	50.8	50.0	49.2	48.4	47.6	46.9
47	54.7	53.9	53.1	52.2	51.4	50.6	49.9	49.1	48.3	47.5
48	55.2	54.4	53.6	52.8	52.0	51.3	50.5	49.7	48.9	48.2
49	55.8	55.0	54.2	53.4	52.6	51.8	51.1	50.3	49.6	48.8
50	56.3	55.5	54.7	54.0	53.2	52.4	51.7	50.9	50.2	49.4
51	56.8	56.0	55.3	54.5	53.7	53.0	52.2	51.5	50.7	50.0
52	57.3	56.5	55.8	55.0	54.2	53.5	52.7	52.0	51.3	50.5
53	57.8	57.0	56.2	55.5	54.7	54.0	53.3	52.5	51.8	51.1
54	58.2	57.5	56.7	56.0	55.2	54.5	53.8	53.0	52.3	51.6
55	58.7	57.9	57.2	56.4	55.7	55.0	54.3	53.5	52.8	52.1
56	59.1	58.3	57.6	56.9	56.2	55.4	54.7	54.0	53.3	52.6
57	59.5	58.8	58.0	57.3	56.6	55.9	55.2	54.5	53.8	53.1

表 3a₂（续）

$t-t_w$ / t	9.2	9.4	9.6	9.8	10.0	10.2	10.4	10.6	10.8	11.0
58	59.9	59.2	58.4	57.7	57.0	56.3	55.6	54.9	54.2	53.5
59	60.3	59.6	58.8	58.1	57.4	56.7	56.0	55.3	54.7	54.0
60	60.7	59.9	59.2	58.5	57.8	57.1	56.5	55.8	55.1	54.4
61	61.0	60.3	59.6	58.9	58.2	57.5	56.9	56.2	55.5	54.8
62	61.4	60.7	60.0	59.3	58.6	57.9	57.2	56.6	55.9	55.2
63	61.7	61.0	60.3	59.7	59.0	58.3	57.6	57.0	56.3	55.6
64	62.1	61.4	60.7	60.0	59.3	58.7	58.0	57.3	56.7	56.0
65	62.4	61.7	61.0	60.4	59.7	59.0	58.4	57.7	57.1	56.4
66	62.7	62.0	61.4	60.7	60.0	59.4	58.7	58.1	57.4	56.8
67	63.0	62.4	61.7	61.0	60.4	59.7	59.1	58.4	57.8	57.1
68	63.3	62.7	62.0	61.3	60.7	60.0	59.4	58.7	58.1	57.5
69	63.6	63.0	62.3	61.7	61.0	60.4	59.7	59.1	58.4	57.8
70	63.9	63.3	62.6	62.0	61.3	60.7	60.0	59.4	58.8	58.2
71	64.2	63.6	62.9	62.3	61.6	61.0	60.3	59.7	59.1	58.5
72	64.5	63.8	63.2	62.6	61.9	61.3	60.7	60.0	59.4	58.8
73	64.8	64.1	63.5	62.8	62.2	61.6	61.0	60.3	59.7	59.1
74	65.0	64.4	63.8	63.1	62.5	61.9	61.2	60.6	60.0	59.4
75	65.3	64.7	64.0	63.4	62.8	62.1	61.5	60.9	60.3	59.7
76	65.6	64.9	64.3	63.7	63.0	62.4	61.8	61.2	60.6	60.0
77	65.8	65.2	64.5	63.9	63.3	62.7	62.1	61.5	60.9	60.3
78	66.0	65.4	64.8	64.2	63.6	63.0	62.4	61.8	61.2	60.6
79	66.3	65.7	65.1	64.4	63.8	63.2	62.6	62.0	61.4	60.8
80	66.5	65.9	65.3	64.7	64.1	63.5	62.9	62.3	61.7	61.1
81	66.8	66.1	65.5	64.9	64.3	63.7	63.1	62.5	62.0	61.4
82	67.0	66.4	65.8	65.2	64.6	64.0	63.4	62.8	62.2	61.6
83	67.2	66.6	66.0	65.4	64.8	64.2	63.6	63.1	62.5	61.9
84	67.4	66.8	66.2	65.6	65.1	64.5	63.9	63.3	62.7	62.2
85	67.7	67.1	66.5	65.9	65.3	64.7	64.1	63.5	63.0	62.4
86	67.9	67.3	66.7	66.1	65.5	64.9	64.4	63.8	63.2	62.6
87	68.1	67.5	66.9	66.3	65.7	65.2	64.6	64.0	63.5	62.9
88	68.3	67.7	67.1	66.5	66.0	65.4	64.8	64.2	63.7	63.1
89	68.5	67.9	67.3	66.8	66.2	65.6	65.0	64.5	63.9	63.4
90	68.7	68.1	67.5	67.0	66.4	65.8	65.3	64.7	64.1	63.6
91	68.9	68.3	67.7	67.2	66.6	66.0	65.5	64.9	64.4	63.8
92	69.1	68.5	68.0	67.4	66.8	66.3	65.7	65.1	64.6	64.0
93	69.3	68.7	68.2	67.6	67.0	66.5	65.9	65.4	64.8	64.3
94	69.5	68.9	68.3	67.8	67.2	66.7	66.1	65.6	65.0	64.5
95	69.7	69.1	68.5	68.0	67.4	66.9	66.3	65.8	65.2	64.7
96	69.9	69.3	68.7	68.2	67.6	67.1	66.5	66.0	65.4	64.9
97	70.0	69.5	68.9	68.4	67.8	67.3	66.7	66.2	65.6	65.1
98	70.2	69.7	69.1	68.6	68.0	67.5	66.9	66.4	65.9	65.3
99	70.4	69.9	69.3	68.7	68.2	67.7	67.1	66.6	66.1	65.5
100	70.6	70.0	69.5	68.9	68.4	67.9	67.3	66.8	66.3	65.7

表 3a₂（续）

t	$t-t_w$ 11.5	12.0	12.5	13.5	13.5	14.0	14.5	15.0	15.5	16.0
15										
16										
17										
18	1.5									
19	4.5	1.1								
20	7.4	4.0	0.7							
21	10.0	6.8	3.6	0.5						
22	12.5	9.4	6.4	3.3	0.3					
23	14.9	11.9	8.9	6.0	3.1	0.2				
24	17.1	14.2	11.3	8.5	5.7	2.9	0.2			
25	19.2	16.4	13.6	10.8	8.1	5.4	2.7	0.1		
26	21.2	18.4	15.7	13.0	10.4	7.8	5.2	2.7	0.2	
27	23.1	20.4	17.7	15.1	12.5	10.0	7.5	5.0	2.6	0.2
28	24.8	22.2	19.6	17.1	14.5	12.1	9.6	7.3	4.9	2.6
29	26.5	23.9	21.4	18.9	16.5	14.1	11.7	9.4	7.1	4.8
30	28.1	25.6	23.1	20.7	18.3	15.9	13.6	11.4	9.1	6.9
31	29.6	27.1	24.7	22.3	20.0	17.7	15.5	13.2	11.1	8.9
32	31.0	28.6	26.2	23.9	21.6	19.4	17.2	15.0	12.9	10.8
33	32.3	30.0	27.7	25.4	23.2	21.0	18.8	16.7	14.6	12.6
34	33.6	31.3	29.0	26.8	24.6	22.5	20.4	18.3	16.3	14.3
35	34.8	32.5	30.3	28.2	26.0	23.9	21.9	19.8	17.8	15.9
36	36.0	33.7	31.6	29.4	27.3	25.3	23.3	21.3	19.3	17.4
37	37.0	34.9	32.7	30.6	28.6	26.6	24.6	22.6	20.7	18.8
38	38.1	36.0	33.9	31.8	29.8	27.8	25.8	23.9	22.1	20.2
39	39.1	37.0	34.9	32.9	30.9	29.0	27.1	25.2	23.3	21.5
40	40.0	38.0	35.9	34.0	32.0	30.1	28.2	26.4	24.5	22.8
41	40.9	38.9	36.9	35.0	33.0	31.2	29.3	27.5	25.7	23.9
42	41.8	39.8	37.8	35.9	34.0	32.2	30.3	28.6	26.8	25.1
43	42.6	40.7	38.7	36.8	35.0	33.1	31.3	29.6	27.9	26.2
44	43.4	41.5	39.6	37.7	35.9	34.1	32.3	30.6	28.9	27.2
45	44.2	42.3	40.4	38.6	36.7	35.0	33.2	31.5	29.8	28.2
46	44.9	43.0	41.2	39.4	37.6	35.8	34.1	32.4	30.8	29.1
47	45.6	43.8	41.9	40.1	38.4	36.6	34.9	33.3	31.6	30.0
48	46.3	44.5	42.6	40.9	39.1	37.4	35.7	34.1	32.5	30.9
49	46.9	45.1	43.3	41.6	39.9	38.2	36.5	34.9	33.3	31.7
50	47.6	45.8	44.0	42.3	40.6	38.9	37.3	35.7	34.1	32.5
51	48.2	46.4	44.6	42.9	41.3	39.6	38.0	36.4	34.8	33.3
52	48.8	47.0	45.3	43.6	41.9	40.3	38.7	37.1	35.6	34.1
53	49.3	47.6	45.9	44.2	42.5	40.9	39.3	37.8	36.3	34.8
54	49.9	48.1	46.4	44.8	43.2	41.6	40.0	38.5	36.9	35.5
55	50.4	48.7	47.0	45.4	43.7	42.2	40.6	39.1	37.6	36.1
56	50.9	49.2	47.5	45.9	44.3	42.7	41.2	39.7	38.2	36.8
57	51.4	49.7	48.1	46.4	44.9	43.3	41.8	40.3	38.8	37.4

表 3a$_2$（续）

$t-t_w$ t	11.5	12.0	12.5	13.5	13.5	14.0	14.5	15.0	15.5	16.0
58	51.9	50.2	48.6	47.0	45.4	43.9	42.4	40.9	39.4	38.0
59	52.3	50.7	49.1	47.5	45.9	44.4	42.9	41.4	40.0	38.6
60	52.8	51.1	49.5	48.0	46.4	44.9	43.4	42.0	40.5	39.1
61	53.2	51.6	50.0	48.4	46.9	45.4	43.9	42.5	41.1	39.7
62	53.6	52.0	50.4	48.9	47.4	45.9	44.4	43.0	41.6	40.2
63	54.0	52.4	50.9	49.3	47.8	46.4	44.9	43.5	42.1	40.7
64	54.4	52.8	51.3	49.8	48.3	46.8	45.4	44.0	42.6	41.2
65	54.8	53.2	51.7	50.2	48.7	47.3	45.8	44.4	43.1	41.7
66	55.2	53.6	52.1	50.6	49.1	47.7	46.3	44.9	43.5	42.2
67	55.6	54.0	52.5	51.0	49.6	48.1	46.7	45.3	44.0	42.7
68	55.9	54.4	52.9	51.4	50.0	48.5	47.1	45.8	44.4	43.1
69	56.3	54.7	53.3	51.8	50.3	48.9	47.5	46.2	44.8	43.5
70	56.6	55.1	53.6	52.2	50.7	49.3	47.9	46.6	45.3	44.0
71	56.9	55.4	54.0	52.5	51.1	49.7	48.3	47.0	45.7	44.4
72	57.3	55.8	54.3	52.9	51.5	50.1	48.7	47.4	46.1	44.8
73	57.6	56.1	54.7	53.2	51.8	50.5	49.1	47.8	46.5	45.2
74	57.9	56.4	55.0	53.6	52.2	50.8	49.5	48.1	46.8	45.6
75	58.2	56.8	55.3	53.9	52.5	51.2	49.8	48.5	47.2	46.0
76	58.5	57.1	55.6	54.2	52.9	51.5	50.2	48.9	47.6	46.3
77	58.8	57.4	56.0	54.6	53.2	51.8	50.5	49.2	47.9	46.7
78	59.1	57.7	56.3	54.9	53.5	52.2	50.9	49.6	48.3	47.0
79	59.4	58.0	56.6	55.2	53.8	52.5	51.2	49.9	48.6	47.4
80	59.7	58.3	56.9	55.5	54.1	52.8	51.5	50.2	49.0	47.7
81	59.9	58.5	57.1	55.8	54.4	53.1	51.8	50.6	49.3	48.1
82	60.2	58.8	57.4	56.1	54.7	53.4	52.1	50.9	49.6	48.4
83	60.5	59.1	57.7	56.4	55.0	53.7	52.4	51.2	50.0	48.7
84	60.7	59.4	58.0	56.6	55.3	54.0	52.8	51.5	50.3	49.1
85	61.0	59.6	58.3	56.9	55.6	54.3	53.0	51.8	50.6	49.4
86	61.2	59.9	58.5	57.2	55.9	54.6	53.3	52.1	50.9	49.7
87	61.5	60.1	58.8	57.5	56.2	54.9	53.6	52.4	51.2	50.0
88	61.7	60.4	59.0	57.7	56.4	55.2	53.9	52.7	51.5	50.3
89	62.0	60.6	59.3	58.0	56.7	55.4	54.2	53.0	51.8	50.6
90	62.2	60.9	59.5	58.2	57.0	55.7	54.5	53.2	52.0	50.9
91	62.5	61.1	59.8	58.5	57.2	56.0	54.7	53.5	52.3	51.2
92	62.7	61.4	60.0	58.7	57.5	56.2	55.0	53.8	52.6	51.4
93	62.9	61.6	60.3	59.0	57.7	56.5	55.3	54.1	52.9	51.7
94	63.1	61.8	60.5	59.2	58.0	56.7	55.5	54.3	53.2	52.0
95	63.4	62.0	60.8	59.5	58.2	57.0	55.8	54.6	53.4	52.3
96	63.6	62.3	61.0	59.7	58.5	57.2	56.0	54.8	53.7	52.5
97	63.8	62.5	61.2	59.9	58.7	57.5	56.3	55.1	53.9	52.8
98	64.0	62.7	61.4	60.2	58.9	57.7	56.5	55.4	54.2	53.1
99	64.2	62.9	61.7	60.4	59.2	58.0	56.8	55.6	54.4	53.3
100	64.4	63.1	61.9	60.6	59.4	58.2	57.0	55.8	54.7	53.6

表 3b 球状水银温度表相对湿度查算表

$P = 100 \text{ kPa}, A = 0.794\ 7 \times 10^{-3} \text{℃}^{-1} (0.8 \text{ m/s})$

t \ $t-t_w$	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0
15	100.0	98.9	97.8	96.7	95.6	94.5	93.4	92.3	91.2	90.2	89.1
16	100.0	98.9	97.9	96.8	95.7	94.7	93.6	92.6	91.5	90.5	89.4
17	100.0	99.0	97.9	96.9	95.9	94.8	93.8	92.8	91.8	90.7	89.7
18	100.0	99.0	98.0	97.0	96.0	95.0	94.0	93.0	92.0	91.0	90.0
19	100.0	99.0	98.0	97.1	96.1	95.1	94.1	93.2	92.2	91.3	90.3
20	100.0	99.0	98.1	97.1	96.2	95.2	94.3	93.4	92.4	91.5	90.6
21	100.0	99.1	98.1	97.2	96.3	95.4	94.5	93.5	92.6	91.7	90.8
22	100.0	99.1	98.2	97.3	96.4	95.5	94.6	93.7	92.8	91.9	91.1
23	100.0	99.1	98.2	97.3	96.5	95.6	94.7	93.9	93.0	92.1	91.3
24	100.0	99.1	98.3	97.4	96.6	95.7	94.9	94.0	93.2	92.3	91.5
25	100.0	99.2	98.3	97.5	96.6	95.8	95.0	94.1	93.3	92.5	91.7
26	100.0	99.2	98.3	97.5	96.7	95.9	95.1	94.3	93.5	92.7	91.9
27	100.0	99.2	98.4	97.6	96.8	96.0	95.2	94.4	93.6	92.8	92.0
28	100.0	99.2	98.4	97.6	96.9	96.1	95.3	94.5	93.7	93.0	92.2
29	100.0	99.2	98.5	97.7	96.9	96.2	95.4	94.6	93.9	93.1	92.4
30	100.0	99.2	98.5	97.7	97.0	96.2	95.5	94.7	94.0	93.3	92.5
31	100.0	99.3	98.5	97.8	97.0	96.3	95.6	94.8	94.1	93.4	92.7
32	100.0	99.3	98.5	97.8	97.1	96.4	95.7	94.9	94.2	93.5	92.8
33	100.0	99.3	98.6	97.9	97.1	96.4	95.7	95.0	94.3	93.6	92.9
34	100.0	99.3	98.6	97.9	97.2	96.5	95.8	95.1	94.4	93.7	93.1
35	100.0	99.3	98.6	97.9	97.2	96.6	95.9	95.2	94.5	93.9	93.2
36	100.0	99.3	98.6	98.0	97.3	96.6	96.0	95.3	94.6	94.0	93.3
37	100.0	99.3	98.7	98.0	97.3	96.7	96.0	95.4	94.7	94.1	93.4
38	100.0	99.3	98.7	98.0	97.4	96.7	96.1	95.4	94.8	94.2	93.5
39	100.0	99.4	98.7	98.1	97.4	96.8	96.1	95.5	94.9	94.2	93.6
40	100.0	99.4	98.7	98.1	97.5	96.8	96.2	95.6	95.0	94.3	93.7
41	100.0	99.4	98.7	98.1	97.5	96.9	96.3	95.6	95.0	94.4	93.8
42	100.0	99.4	98.8	98.1	97.5	96.9	96.3	95.7	95.1	94.5	93.9
43	100.0	99.4	98.8	98.2	97.6	97.0	96.4	95.8	95.2	94.6	94.0
44	100.0	99.4	98.8	98.2	97.6	97.0	96.4	95.8	95.2	94.6	94.1
45	100.0	99.4	98.8	98.2	97.6	97.0	96.5	95.9	95.3	94.7	94.1
46	100.0	99.4	98.8	98.2	97.7	97.1	96.5	95.9	95.4	94.8	94.2
47	100.0	99.4	98.8	98.3	97.7	97.1	96.5	96.0	95.4	94.9	94.3
48	100.0	99.4	98.9	98.3	97.7	97.2	96.6	96.0	95.5	94.9	94.4
49	100.0	99.4	98.9	98.3	97.7	97.2	96.6	96.1	95.5	95.0	94.4
50	100.0	99.4	98.9	98.3	97.8	97.2	96.7	96.1	95.6	95.0	94.5
51	100.0	99.4	98.9	98.3	97.8	97.3	96.7	96.2	95.6	95.1	94.6
52	100.0	99.5	98.9	98.4	97.8	97.3	96.8	96.2	95.7	95.2	94.6
53	100.0	99.5	98.9	98.4	97.9	97.3	96.8	96.3	95.7	95.2	94.7
54	100.0	99.5	98.9	98.4	97.9	97.3	96.8	96.3	95.8	95.3	94.7
55	100.0	99.5	98.9	98.4	97.9	97.4	96.9	96.3	95.8	95.3	94.8
56	100.0	99.5	99.0	98.4	97.9	97.4	96.9	96.4	95.9	95.4	94.9
57	100.0	99.5	99.0	98.5	97.9	97.4	96.9	96.4	95.9	95.4	94.9

表 3b（续）

$t-t_w$ / t	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0
58	100.0	99.5	99.0	98.5	98.0	97.5	97.0	96.5	96.0	95.5	95.0
59	100.0	99.5	99.0	98.5	98.0	97.5	97.0	96.5	96.0	95.5	95.0
60	100.0	99.5	99.0	98.5	98.0	97.5	97.0	96.5	96.0	95.5	95.1
61	100.0	99.5	99.0	98.5	98.0	97.5	97.0	96.6	96.1	95.6	95.1
62	100.0	99.5	99.0	98.5	98.0	97.6	97.1	96.6	96.1	95.6	95.2
63	100.0	99.5	99.0	98.5	98.1	97.6	97.1	96.6	96.2	95.7	95.2
64	100.0	99.5	99.0	98.6	98.1	97.6	97.1	96.7	96.2	95.7	95.2
65	100.0	99.5	99.0	98.6	98.1	97.6	97.2	96.7	96.2	95.8	95.3
66	100.0	99.5	99.1	98.6	98.1	97.6	97.2	96.7	96.3	95.8	95.3
67	100.0	99.5	99.1	98.6	98.1	97.7	97.2	96.7	96.3	95.8	95.4
68	100.0	99.5	99.1	98.6	98.1	97.7	97.2	96.8	96.3	95.9	95.4
69	100.0	99.5	99.1	98.6	98.2	97.7	97.3	96.8	96.4	95.9	95.5
70	100.0	99.5	99.1	98.6	98.2	97.7	97.3	96.8	96.4	95.9	95.5
71	100.0	99.5	99.1	98.6	98.2	97.7	97.3	96.9	96.4	96.0	95.5
72	100.0	99.6	99.1	98.7	98.2	97.8	97.3	96.9	96.4	96.0	95.6
73	100.0	99.6	99.1	98.7	98.2	97.8	97.3	96.9	96.5	96.0	95.6
74	100.0	99.6	99.1	98.7	98.2	97.8	97.4	96.9	96.5	96.1	95.6
75	100.0	99.6	99.1	98.7	98.3	97.8	97.4	97.0	96.5	96.1	95.7
76	100.0	99.6	99.1	98.7	98.3	97.8	97.4	97.0	96.6	96.1	95.7
77	100.0	99.6	99.1	98.7	98.3	97.9	97.4	97.0	96.6	96.2	95.8
78	100.0	99.6	99.1	98.7	98.3	97.9	97.5	97.0	96.6	96.2	95.8
79	100.0	99.6	99.2	98.7	98.3	97.9	97.5	97.1	96.6	96.2	95.8
80	100.0	99.6	99.2	98.7	98.3	97.9	97.5	97.1	96.7	96.3	95.9
81	100.0	99.6	99.2	98.8	98.3	97.9	97.5	97.1	96.7	96.3	95.9
82	100.0	99.6	99.2	98.8	98.3	97.9	97.5	97.1	96.7	96.3	95.9
83	100.0	99.6	99.2	98.8	98.4	98.0	97.6	97.1	96.7	96.3	95.9
84	100.0	99.6	99.2	98.8	98.4	98.0	97.6	97.2	96.8	96.4	96.0
85	100.0	99.6	99.2	98.8	98.4	98.0	97.6	97.2	96.8	96.4	96.0
86	100.0	99.6	99.2	98.8	98.4	98.0	97.6	97.2	96.8	96.4	96.0
87	100.0	99.6	99.2	98.8	98.4	98.0	97.6	97.2	96.8	96.5	96.1
88	100.0	99.6	99.2	98.8	98.4	98.0	97.6	97.3	96.9	96.5	96.1
89	100.0	99.6	99.2	98.8	98.4	98.0	97.7	97.3	96.9	96.5	96.1
90	100.0	99.6	99.2	98.8	98.4	98.1	97.7	97.3	96.9	96.5	96.1
91	100.0	99.6	99.2	98.8	98.5	98.1	97.7	97.3	96.9	96.6	96.2
92	100.0	99.6	99.2	98.8	98.5	98.1	97.7	97.3	97.0	96.6	96.2
93	100.0	99.6	99.2	98.9	98.5	98.1	97.7	97.3	97.0	96.6	96.2
94	100.0	99.6	99.2	98.9	98.5	98.1	97.7	97.4	97.0	96.6	96.3
95	100.0	99.6	99.2	98.9	98.5	98.1	97.8	97.4	97.0	96.6	96.3
96	100.0	99.6	99.3	98.9	98.5	98.1	97.8	97.4	97.0	96.7	96.3
97	100.0	99.6	99.3	98.9	98.5	98.2	97.8	97.4	97.1	96.7	96.3
98	100.0	99.6	99.3	98.9	98.5	98.2	97.8	97.4	97.1	96.7	96.4
99	100.0	99.6	99.3	98.9	98.5	98.2	97.8	97.5	97.1	96.7	96.4
100	100.0	99.6	99.3	98.9	98.5	98.2	97.8	97.5	97.1	96.8	96.4

表 3b（续）

$t-t_w$ / t	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0
15	88.0	86.9	85.9	84.8	83.7	82.7	81.6	80.6	79.5	78.5
16	88.4	87.3	86.3	85.3	84.2	83.2	82.2	81.2	80.2	79.2
17	88.7	87.7	86.7	85.7	84.7	83.7	82.7	81.8	80.8	79.8
18	89.0	88.1	87.1	86.1	85.2	84.2	83.2	82.3	81.3	80.4
19	89.4	88.4	87.5	86.5	85.6	84.6	83.7	82.8	81.9	80.9
20	89.6	88.7	87.8	86.9	86.0	85.1	84.2	83.3	82.4	81.5
21	89.9	89.0	88.1	87.2	86.3	85.5	84.6	83.7	82.8	82.0
22	90.2	89.3	88.4	87.6	86.7	85.8	85.0	84.1	83.3	82.4
23	90.4	89.6	88.7	87.9	87.0	86.2	85.4	84.5	83.7	82.9
24	90.6	89.8	89.0	88.2	87.3	86.5	85.7	84.9	84.1	83.3
25	90.9	90.1	89.2	88.4	87.6	86.8	86.0	85.2	84.5	83.7
26	91.1	90.3	89.5	88.7	87.9	87.1	86.4	85.6	84.8	84.0
27	91.3	90.5	89.7	88.9	88.2	87.4	86.7	85.9	85.1	84.4
28	91.5	90.7	89.9	89.2	88.4	87.7	86.9	86.2	85.5	84.7
29	91.6	90.9	90.1	89.4	88.7	87.9	87.2	86.5	85.8	85.0
30	91.8	91.1	90.3	89.6	88.9	88.2	87.5	86.7	86.0	85.3
31	92.0	91.2	90.5	89.8	89.1	88.4	87.7	87.0	86.3	85.6
32	92.1	91.4	90.7	90.0	89.3	88.6	87.9	87.3	86.6	85.9
33	92.3	91.6	90.9	90.2	89.5	88.8	88.2	87.5	86.8	86.1
34	92.4	91.7	91.0	90.4	89.7	89.0	88.4	87.7	87.0	86.4
35	92.5	91.9	91.2	90.5	89.9	89.2	88.6	87.9	87.3	86.6
36	92.6	92.0	91.3	90.7	90.0	89.4	88.8	88.1	87.5	86.9
37	92.8	92.1	91.5	90.8	90.2	89.6	88.9	88.3	87.7	87.1
38	92.9	92.2	91.6	91.0	90.4	89.7	89.1	88.5	87.9	87.3
39	93.0	92.4	91.7	91.1	90.5	89.9	89.3	88.7	88.1	87.5
40	93.1	92.5	91.9	91.3	90.7	90.1	89.5	88.9	88.3	87.7
41	93.2	92.6	92.0	91.4	90.8	90.2	89.6	89.0	88.4	87.8
42	93.3	92.7	92.1	91.5	90.9	90.3	89.8	89.2	88.6	88.0
43	93.4	92.8	92.2	91.6	91.1	90.5	89.9	89.3	88.8	88.2
44	93.5	92.9	92.3	91.7	91.2	90.6	90.0	89.5	88.9	88.3
45	93.6	93.0	92.4	91.9	91.3	90.7	90.2	89.6	89.1	88.5
46	93.7	93.1	92.5	92.0	91.4	90.9	90.3	89.7	89.2	88.7
47	93.7	93.2	92.6	92.1	91.5	91.0	90.4	89.9	89.3	88.8
48	93.8	93.3	92.7	92.2	91.6	91.1	90.5	90.0	89.5	88.9
49	93.9	93.3	92.8	92.3	91.7	91.2	90.7	90.1	89.6	89.1
50	94.0	93.4	92.9	92.4	91.8	91.3	90.8	90.2	89.7	89.2
51	94.0	93.5	93.0	92.4	91.9	91.4	90.9	90.4	89.8	89.3
52	94.1	93.6	93.1	92.5	92.0	91.5	91.0	90.5	90.0	89.4
53	94.2	93.6	93.1	92.6	92.1	91.6	91.1	90.6	90.1	89.6
54	94.2	93.7	93.2	92.7	92.2	91.7	91.2	90.7	90.2	89.7
55	94.3	93.8	93.3	92.8	92.3	91.8	91.3	90.8	90.3	89.8
56	94.4	93.9	93.4	92.9	92.4	91.9	91.4	90.9	90.4	89.9
57	94.4	93.9	93.4	92.9	92.4	91.9	91.5	91.0	90.5	90.0

表 3b（续）

$t-t_w$ t	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0
58	94.5	94.0	93.5	93.0	92.5	92.0	91.5	91.1	90.6	90.1
59	94.5	94.0	93.6	93.1	92.6	92.1	91.6	91.2	90.7	90.2
60	94.6	94.1	93.6	93.1	92.7	92.2	91.7	91.2	90.8	90.3
61	94.6	94.2	93.7	93.2	92.7	92.3	91.8	91.3	90.9	90.4
62	94.7	94.2	93.7	93.3	92.8	92.3	91.9	91.4	90.9	90.5
63	94.7	94.3	93.8	93.3	92.9	92.4	91.9	91.5	91.0	90.6
64	94.8	94.3	93.9	93.4	92.9	92.5	92.0	91.6	91.1	90.7
65	94.8	94.4	93.9	93.5	93.0	92.5	92.1	91.6	91.2	90.8
66	94.9	94.4	94.0	93.5	93.1	92.6	92.2	91.7	91.3	90.8
67	94.9	94.5	94.0	93.6	93.1	92.7	92.2	91.8	91.4	90.9
68	95.0	94.5	94.1	93.6	93.2	92.7	92.3	91.9	91.4	91.0
69	95.0	94.6	94.1	93.7	93.2	92.8	92.4	91.9	91.5	91.1
70	95.1	94.6	94.2	93.7	93.3	92.9	92.4	92.0	91.6	91.2
71	95.1	94.7	94.2	93.8	93.4	92.9	92.5	92.1	91.6	91.2
72	95.1	94.7	94.3	93.8	93.4	93.0	92.6	92.1	91.7	91.3
73	95.2	94.8	94.3	93.9	93.5	93.0	92.6	92.2	91.8	91.4
74	95.2	94.8	94.4	93.9	93.5	93.1	92.7	92.3	91.9	91.4
75	95.3	94.8	94.4	94.0	93.6	93.2	92.7	92.3	91.9	91.5
76	95.3	94.9	94.5	94.0	93.6	93.2	92.8	92.4	92.0	91.6
77	95.3	94.9	94.5	94.1	93.7	93.3	92.9	92.5	92.0	91.6
78	95.4	95.0	94.5	94.1	93.7	93.3	92.9	92.5	92.1	91.7
79	95.4	95.0	94.6	94.2	93.8	93.4	93.0	92.6	92.2	91.8
80	95.4	95.0	94.6	94.2	93.8	93.4	93.0	92.6	92.2	91.8
81	95.5	95.1	94.7	94.3	93.9	93.5	93.1	92.7	92.3	91.9
82	95.5	95.1	94.7	94.3	93.9	93.5	93.1	92.7	92.3	92.0
83	95.5	95.1	94.8	94.4	94.0	93.6	93.2	92.8	92.4	92.0
84	95.6	95.2	94.8	94.4	94.0	93.6	93.2	92.8	92.5	92.1
85	95.6	95.2	94.8	94.4	94.1	93.7	93.3	92.9	92.5	92.1
86	95.6	95.3	94.9	94.5	94.1	93.7	93.3	93.0	92.6	92.2
87	95.7	95.3	94.9	94.5	94.1	93.8	93.4	93.0	92.6	92.2
88	95.7	95.3	94.9	94.6	94.2	93.8	93.4	93.1	92.7	92.3
89	95.7	95.4	95.0	94.6	94.2	93.8	93.5	93.1	92.7	92.4
90	95.8	95.4	95.0	94.6	94.3	93.9	93.5	93.2	92.8	92.4
91	95.8	95.4	95.1	94.7	94.3	93.9	93.6	93.2	92.8	92.5
92	95.8	95.5	95.1	94.7	94.3	94.0	93.6	93.2	92.9	92.5
93	95.9	95.5	95.1	94.8	94.4	94.0	93.7	93.3	92.9	92.6
94	95.9	95.5	95.2	94.8	94.4	94.1	93.7	93.3	93.0	92.6
95	95.9	95.5	95.2	94.8	94.5	94.1	93.7	93.4	93.0	92.7
96	95.9	95.6	95.2	94.9	94.5	94.1	93.8	93.4	93.1	92.7
97	96.0	95.6	95.3	94.9	94.5	94.2	93.8	93.5	93.1	92.8
98	96.0	95.6	95.3	94.9	94.6	94.2	93.9	93.5	93.2	92.8
99	96.0	95.7	95.3	95.0	94.6	94.3	93.9	93.6	93.2	92.9
100	96.1	95.7	95.3	95.0	94.6	94.3	93.9	93.6	93.3	92.9

表 3b（续）

t－t$_w$ / t	2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9	3.0
15	77.5	76.4	75.4	74.4	73.3	72.3	71.3	70.3	69.3	68.3
16	78.2	77.2	76.2	75.2	74.2	73.2	72.2	71.2	70.2	69.2
17	78.8	77.8	76.9	75.9	74.9	74.0	73.0	72.1	71.1	70.2
18	79.4	78.5	77.6	76.6	75.7	74.8	73.8	72.9	72.0	71.1
19	80.0	79.1	78.2	77.3	76.4	75.5	74.6	73.7	72.8	71.9
20	80.6	79.7	78.8	77.9	77.0	76.1	75.3	74.4	73.5	72.7
21	81.1	80.2	79.4	78.5	77.6	76.8	75.9	75.1	74.2	73.4
22	81.6	80.7	79.9	79.0	78.2	77.4	76.6	75.7	74.9	74.1
23	82.0	81.2	80.4	79.6	78.8	77.9	77.1	76.3	75.5	74.7
24	82.5	81.7	80.9	80.1	79.3	78.5	77.7	76.9	76.1	75.3
25	82.9	82.1	81.3	80.5	79.8	79.0	78.2	77.4	76.7	75.9
26	83.3	82.5	81.7	81.0	80.2	79.5	78.7	78.0	77.2	76.5
27	83.6	82.9	82.1	81.4	80.7	79.9	79.2	78.4	77.7	77.0
28	84.0	83.2	82.5	81.8	81.1	80.3	79.6	78.9	78.2	77.5
29	84.3	83.6	82.9	82.2	81.5	80.8	80.0	79.3	78.6	78.0
30	84.6	83.9	83.2	82.5	81.8	81.1	80.5	79.8	79.1	78.4
31	84.9	84.2	83.6	82.9	82.2	81.5	80.8	80.2	79.5	78.8
32	85.2	84.5	83.9	83.2	82.5	81.9	81.2	80.5	79.9	79.2
33	85.5	84.8	84.2	83.5	82.8	82.2	81.5	80.9	80.2	79.6
34	85.7	85.1	84.4	83.8	83.2	82.5	81.9	81.2	80.6	80.0
35	86.0	85.3	84.7	·84.1	83.4	82.8	82.2	81.6	80.9	80.3
36	86.2	85.6	85.0	84.3	83.7	83.1	82.5	81.9	81.3	80.6
37	86.4	85.8	85.2	84.6	84.0	83.4	82.8	82.2	81.6	81.0
38	86.7	86.1	85.4	84.8	84.2	83.6	83.0	82.5	81.9	81.3
39	86.9	86.3	85.7	85.1	84.5	83.9	83.3	82.7	82.1	81.6
40	87.1	86.5	85.9	85.3	84.7	84.1	83.6	83.0	82.4	81.8
41	87.3	86.7	86.1	85.5	84.9	84.4	83.8	83.2	82.7	82.1
42	87.4	86.9	86.3	85.7	85.2	84.6	84.0	83.5	82.9	82.4
43	87.6	87.1	86.5	85.9	85.4	84.8	84.3	83.7	83.2	82.6
44	87.8	87.2	86.7	86.1	85.6	85.0	84.5	83.9	83.4	82.8
45	87.9	87.4	86.9	86.3	85.8	85.2	84.7	84.1	83.6	83.1
46	88.1	87.6	87.0	86.5	85.9	85.4	84.9	84.3	83.8	83.3
47	88.3	87.7	87.2	86.7	86.1	85.6	85.1	84.5	84.0	83.5
48	88.4	87.9	87.3	86.8	86.3	85.8	85.3	84.7	84.2	83.7
49	88.5	88.0	87.5	87.0	86.5	85.9	85.4	84.9	84.4	83.9
50	88.7	88.2	87.6	87.1	86.6	86.1	85.6	85.1	84.6	84.1
51	88.8	88.3	87.8	87.3	86.8	86.3	85.8	85.3	84.8	84.3
52	88.9	88.4	87.9	87.4	86.9	86.4	85.9	85.4	85.0	84.5
53	89.1	88.6	88.1	87.6	87.1	86.6	86.1	85.6	85.1	84.6
54	89.2	88.7	88.2	87.7	87.2	86.7	86.2	85.8	85.3	84.8
55	89.3	88.8	88.3	87.8	87.4	86.9	86.4	85.9	85.4	85.0
56	89.4	88.9	88.4	88.0	87.5	87.0	86.5	86.1	85.6	85.1
57	89.5	89.0	88.6	88.1	87.6	87.1	86.7	86.2	85.7	85.3

表 3b（续）

$t-t_w$ / t	2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9	3.0
58	89.6	89.2	88.7	88.2	87.7	87.3	86.8	86.3	85.9	85.4
59	89.7	89.3	88.8	88.3	87.9	87.4	86.9	86.5	86.0	85.6
60	89.8	89.4	88.9	88.4	88.0	87.5	87.1	86.6	86.2	85.7
61	89.9	89.5	89.0	88.6	88.1	87.7	87.2	86.7	86.3	85.9
62	90.0	89.6	89.1	88.7	88.2	87.8	87.3	86.9	86.4	86.0
63	90.1	89.7	89.2	88.8	88.3	87.9	87.4	87.0	86.6	86.1
64	90.2	89.8	89.3	88.9	88.4	88.0	87.6	87.1	86.7	86.2
65	90.3	89.9	89.4	89.0	88.5	88.1	87.7	87.2	86.8	86.4
66	90.4	90.0	89.5	89.1	88.6	88.2	87.8	87.3	86.9	86.5
67	90.5	90.0	89.6	89.2	88.7	88.3	87.9	87.5	87.0	86.6
68	90.6	90.1	89.7	89.3	88.8	88.4	88.0	87.6	87.1	86.7
69	90.6	90.2	89.8	89.4	88.9	88.5	88.1	87.7	87.3	86.8
70	90.7	90.3	89.9	89.5	89.0	88.6	88.2	87.8	87.4	87.0
71	90.8	90.4	90.0	89.5	89.1	88.7	88.3	87.9	87.5	87.1
72	90.9	90.5	90.0	89.6	89.2	88.8	88.4	88.0	87.6	87.2
73	91.0	90.5	90.1	89.7	89.3	88.9	88.5	88.1	87.7	87.3
74	91.0	90.6	90.2	89.8	89.4	89.0	88.6	88.2	87.8	87.4
75	91.1	90.7	90.3	89.9	89.5	89.1	88.7	88.3	87.9	87.5
76	91.2	90.8	90.4	90.0	89.6	89.2	88.8	88.4	88.0	87.6
77	91.2	90.8	90.4	90.0	89.6	89.2	88.8	88.5	88.1	87.7
78	91.3	90.9	90.5	90.1	89.7	89.3	88.9	88.5	88.2	87.8
79	91.4	91.0	90.6	90.2	89.8	89.4	89.0	88.6	88.2	87.9
80	91.4	91.0	90.7	90.3	89.9	89.5	89.1	88.7	88.3	88.0
81	91.5	91.1	90.7	90.3	90.0	89.6	89.2	88.8	88.4	88.0
82	91.6	91.2	90.8	90.4	90.0	89.6	89.3	88.9	88.5	88.1
83	91.6	91.2	90.9	90.5	90.1	89.7	89.3	89.0	88.6	88.2
84	91.7	91.3	90.9	90.6	90.2	89.8	89.4	89.0	88.7	88.3
85	91.8	91.4	91.0	90.6	90.2	89.9	89.5	89.1	88.8	88.4
86	91.8	91.4	91.1	90.7	90.3	89.9	89.6	89.2	88.8	88.5
87	91.9	91.5	91.1	90.8	90.4	90.0	89.7	89.3	88.9	88.6
88	91.9	91.6	91.2	90.8	90.5	90.1	89.7	89.4	89.0	88.6
89	92.0	91.6	91.3	90.9	90.5	90.2	89.8	89.4	89.1	88.7
90	92.0	91.7	91.3	91.0	90.6	90.2	89.9	89.5	89.1	88.8
91	92.1	91.7	91.4	91.0	90.7	90.3	89.9	89.6	89.2	88.9
92	92.2	91.8	91.4	91.1	90.7	90.4	90.0	89.7	89.3	88.9
93	92.2	91.9	91.5	91.1	90.8	90.4	90.1	89.7	89.4	89.0
94	92.3	91.9	91.6	91.2	90.8	90.5	90.1	89.8	89.4	89.1
95	92.3	92.0	91.6	91.3	90.9	90.6	90.2	89.9	89.5	89.2
96	92.4	92.0	91.7	91.3	91.0	90.6	90.3	89.9	89.6	89.2
97	92.4	92.1	91.7	91.4	91.0	90.7	90.3	90.0	89.7	89.3
98	92.5	92.1	91.8	91.4	91.1	90.7	90.4	90.1	89.7	89.4
99	92.5	92.2	91.8	91.5	91.1	90.8	90.5	90.1	89.8	89.5
100	92.6	92.2	91.9	91.5	91.2	90.9	90.5	90.2	89.9	89.5

表 3b（续）

$t-t_w$ t	3.1	3.2	3.3	3.4	3.5	3.6	3.7	3.8	3.9	4.0
15	67.2	66.2	65.2	64.2	63.2	62.3	61.3	60.3	59.3	58.3
16	68.3	67.3	66.3	65.4	64.4	63.4	62.5	61.5	60.6	59.6
17	69.2	68.3	67.4	66.4	65.5	64.6	63.6	62.7	61.8	60.9
18	70.1	69.2	68.3	67.4	66.5	65.6	64.7	63.8	62.9	62.0
19	71.0	70.1	69.2	68.3	67.5	66.6	65.7	64.9	64.0	63.1
20	71.8	70.9	70.1	69.2	68.4	67.5	66.7	65.8	65.0	64.1
21	72.6	71.7	70.9	70.0	69.2	68.4	67.6	66.7	65.9	65.1
22	73.3	72.4	71.6	70.8	70.0	69.2	68.4	67.6	66.8	66.0
23	73.9	73.1	72.3	71.6	70.8	70.0	69.2	68.4	67.7	66.9
24	74.6	73.8	73.0	72.3	71.5	70.7	70.0	69.2	68.4	67.7
25	75.2	74.4	73.7	72.9	72.2	71.4	70.7	69.9	69.2	68.5
26	75.7	75.0	74.3	73.5	72.8	72.1	71.3	70.6	69.9	69.2
27	76.3	75.5	74.8	74.1	73.4	72.7	72.0	71.3	70.6	69.9
28	76.8	76.1	75.4	74.7	74.0	73.3	72.6	71.9	71.2	70.5
29	77.3	76.6	75.9	75.2	74.5	73.8	73.2	72.5	71.8	71.1
30	77.7	77.0	76.4	75.7	75.0	74.4	73.7	73.0	72.4	71.7
31	78.2	77.5	76.8	76.2	75.5	74.9	74.2	73.6	72.9	72.3
32	78.6	77.9	77.3	76.6	76.0	75.3	74.7	74.1	73.4	72.8
33	79.0	78.3	77.7	77.1	76.4	75.8	75.2	74.5	73.9	73.3
34	79.3	78.7	78.1	77.5	76.8	76.2	75.6	75.0	74.4	73.8
35	79.7	79.1	78.5	77.9	77.2	76.6	76.0	75.4	74.8	74.2
36	80.0	79.4	78.8	78.2	77.6	77.0	76.4	75.8	75.3	74.7
37	80.4	79.8	79.2	78.6	78.0	77.4	76.8	76.2	75.7	75.1
38	80.7	80.1	79.5	78.9	78.4	77.8	77.2	76.6	76.1	75.5
39	81.0	80.4	79.8	79.3	78.7	78.1	77.6	77.0	76.4	75.9
40	81.3	80.7	80.1	79.6	79.0	78.4	77.9	77.3	76.8	76.2
41	81.5	81.0	80.4	79.9	79.3	78.8	78.2	77.7	77.1	76.6
42	81.8	81.3	80.7	80.2	79.6	79.1	78.5	78.0	77.5	76.9
43	82.1	81.5	81.0	80.4	79.9	79.4	78.8	78.3	77.8	77.2
44	82.3	81.8	81.2	80.7	80.2	79.6	79.1	78.6	78.1	77.6
45	82.5	82.0	81.5	81.0	80.4	79.9	79.4	78.9	78.4	77.8
46	82.8	82.2	81.7	81.2	80.7	80.2	79.7	79.2	78.6	78.1
47	83.0	82.5	82.0	81.4	80.9	80.4	79.9	79.4	78.9	78.4
48	83.2	82.7	82.2	81.7	81.2	80.7	80.2	79.7	79.2	78.7
49	83.4	82.9	82.4	81.9	81.4	80.9	80.4	79.9	79.4	78.9
50	83.6	83.1	82.6	82.1	81.6	81.1	80.6	80.2	79.7	79.2
51	83.8	83.3	82.8	82.3	81.8	81.3	80.9	80.4	79.9	79.4
52	84.0	83.5	83.0	82.5	82.0	81.6	81.1	80.6	80.1	79.7
53	84.2	83.7	83.2	82.7	82.2	81.8	81.3	80.8	80.4	79.9
54	84.3	83.9	83.4	82.9	82.4	82.0	81.5	81.0	80.6	80.1
55	84.5	84.0	83.6	83.1	82.6	82.2	81.7	81.2	80.8	80.3
56	84.7	84.2	83.7	83.3	82.8	82.3	81.9	81.4	81.0	80.5
57	84.8	84.4	83.9	83.4	83.0	82.5	82.1	81.6	81.2	80.7

表 3b（续）

$t-t_w$ / t	3.1	3.2	3.3	3.4	3.5	3.6	3.7	3.8	3.9	4.0
58	85.0	84.5	84.1	83.6	83.2	82.7	82.3	81.8	81.4	80.9
59	85.1	84.7	84.2	83.8	83.3	82.9	82.4	82.0	81.5	81.1
60	85.3	84.8	84.4	83.9	83.5	83.0	82.6	82.2	81.7	81.3
61	85.4	85.0	84.5	84.1	83.6	83.2	82.8	82.3	81.9	81.5
62	85.5	85.1	84.7	84.2	83.8	83.4	82.9	82.5	82.1	81.6
63	85.7	85.2	84.8	84.4	83.9	83.5	83.1	82.7	82.2	81.8
64	85.8	85.4	84.9	84.5	84.1	83.7	83.2	82.8	82.4	82.0
65	85.9	85.5	85.1	84.7	84.2	83.8	83.4	83.0	82.6	82.1
66	86.1	85.6	85.2	84.8	84.4	84.0	83.5	83.1	82.7	82.3
67	86.2	85.8	85.3	84.9	84.5	84.1	83.7	83.3	82.9	82.5
68	86.3	85.9	85.5	85.1	84.6	84.2	83.8	83.4	83.0	82.6
69	86.4	86.0	85.6	85.2	84.8	84.4	84.0	83.6	83.2	82.8
70	86.5	86.1	85.7	85.3	84.9	84.5	84.1	83.7	83.3	82.9
71	86.7	86.2	85.8	85.4	85.0	84.6	84.2	83.8	83.4	83.0
72	86.8	86.4	86.0	85.6	85.2	84.8	84.4	84.0	83.6	83.2
73	86.9	86.5	86.1	85.7	85.3	84.9	84.5	84.1	83.7	83.3
74	87.0	86.6	86.2	85.8	85.4	85.0	84.6	84.2	83.8	83.4
75	87.1	86.7	86.3	85.9	85.5	85.1	84.7	84.3	84.0	83.6
76	87.2	86.8	86.4	86.0	85.6	85.2	84.9	84.5	84.1	83.7
77	87.3	86.9	86.5	86.1	85.7	85.4	85.0	84.6	84.2	83.8
78	87.4	87.0	86.6	86.2	85.8	85.5	85.1	84.7	84.3	84.0
79	87.5	87.1	86.7	86.3	86.0	85.6	85.2	84.8	84.4	84.1
80	87.6	87.2	86.8	86.4	86.1	85.7	85.3	84.9	84.6	84.2
81	87.7	87.3	86.9	86.5	86.2	85.8	85.4	85.0	84.7	84.3
82	87.8	87.4	87.0	86.6	86.3	85.9	85.5	85.2	84.8	84.4
83	87.8	87.5	87.1	86.7	86.4	86.0	85.6	85.3	84.9	84.5
84	87.9	87.6	87.2	86.8	86.5	86.1	85.7	85.4	85.0	84.7
85	88.0	87.7	87.3	86.9	86.6	86.2	85.8	85.5	85.1	84.8
86	88.1	87.7	87.4	87.0	86.7	86.3	85.9	85.6	85.2	84.9
87	88.2	87.8	87.5	87.1	86.8	86.4	86.0	85.7	85.3	85.0
88	88.3	87.9	87.6	87.2	86.8	86.5	86.1	85.8	85.4	85.1
89	88.4	88.0	87.6	87.3	86.9	86.6	86.2	85.9	85.5	85.2
90	88.4	88.1	87.7	87.4	87.0	86.7	86.3	86.0	85.6	85.3
91	88.5	88.2	87.8	87.5	87.1	86.8	86.4	86.1	85.7	85.4
92	88.6	88.2	87.9	87.5	87.2	86.9	86.5	86.2	85.8	85.5
93	88.7	88.3	88.0	87.6	87.3	86.9	86.6	86.3	85.9	85.6
94	88.7	88.4	88.1	87.7	87.4	87.0	86.7	86.4	86.0	85.7
95	88.8	88.5	88.1	87.8	87.5	87.1	86.8	86.4	86.1	85.8
96	88.9	88.6	88.2	87.9	87.5	87.2	86.9	86.5	86.2	85.9
97	89.0	88.6	88.3	88.0	87.6	87.3	87.0	86.6	86.3	86.0
98	89.0	88.7	88.4	88.0	87.7	87.4	87.0	86.7	86.4	86.0
99	89.1	88.8	88.4	88.1	87.8	87.5	87.1	86.8	86.5	86.1
100	89.2	88.9	88.5	88.2	87.9	87.5	87.2	86.9	86.6	86.2

表 3b（续）

$t-t_w$ / t	4.1	4.2	4.3	4.4	4.5	4.6	4.7	4.8	4.9	5.0
15	57.3	56.4	55.4	54.4	53.5	52.5	51.5	50.6	49.6	48.7
16	58.7	57.8	56.8	55.9	54.9	54.0	53.1	52.2	51.2	50.3
17	60.0	59.0	58.1	57.2	56.3	55.4	54.5	53.6	52.7	51.9
18	61.1	60.3	59.4	58.5	57.6	56.8	55.9	55.0	54.2	53.3
19	62.3	61.4	60.6	59.7	58.9	58.0	57.2	56.3	55.5	54.6
20	63.3	62.5	61.7	60.8	60.0	59.2	58.4	57.5	56.7	55.9
21	64.3	63.5	62.7	61.9	61.1	60.3	59.5	58.7	57.9	57.1
22	65.2	64.4	63.7	62.9	62.1	61.3	60.5	59.8	59.0	58.2
23	66.1	65.3	64.6	63.8	63.1	62.3	61.5	60.8	60.0	59.3
24	66.9	66.2	65.4	64.7	64.0	63.2	62.5	61.8	61.0	60.3
25	67.7	67.0	66.3	65.5	64.8	64.1	63.4	62.7	62.0	61.3
26	68.5	67.8	67.0	66.3	65.6	64.9	64.2	63.5	62.8	62.1
27	69.2	68.5	67.8	67.1	66.4	65.7	65.0	64.3	63.7	63.0
28	69.8	69.2	68.5	67.8	67.1	66.5	65.8	65.1	64.5	63.8
29	70.5	69.8	69.1	68.5	67.8	67.2	66.5	65.9	65.2	64.6
30	71.1	70.4	69.8	69.1	68.5	67.8	67.2	66.5	65.9	65.3
31	71.6	71.0	70.4	69.7	69.1	68.5	67.8	67.2	66.6	66.0
32	72.2	71.5	70.9	70.3	69.7	69.1	68.4	67.8	67.2	66.6
33	72.7	72.1	71.5	70.8	70.2	69.6	69.0	68.4	67.8	67.2
34	73.2	72.6	72.0	71.4	70.8	70.2	69.6	69.0	68.4	67.8
35	73.6	73.0	72.5	71.9	71.3	70.7	70.1	69.5	69.0	68.4
36	74.1	73.5	72.9	72.3	71.8	71.2	70.6	70.1	69.5	68.9
37	74.5	73.9	73.4	72.8	72.2	71.7	71.1	70.5	70.0	69.4
38	74.9	74.4	73.8	73.2	72.7	72.1	71.6	71.0	70.5	69.9
39	75.3	74.8	74.2	73.7	73.1	72.6	72.0	71.5	70.9	70.4
40	75.7	75.1	74.6	74.1	73.5	73.0	72.4	71.9	71.4	70.8
41	76.0	75.5	75.0	74.4	73.9	73.4	72.8	72.3	71.8	71.3
42	76.4	75.9	75.3	74.8	74.3	73.8	73.2	72.7	72.2	71.7
43	76.7	76.2	75.7	75.2	74.6	74.1	73.6	73.1	72.6	72.1
44	77.0	76.5	76.0	75.5	75.0	74.5	74.0	73.5	73.0	72.5
45	77.3	76.8	76.3	75.8	75.3	74.8	74.3	73.8	73.3	72.8
46	77.6	77.1	76.6	76.1	75.6	75.1	74.6	74.2	73.7	73.2
47	77.9	77.4	76.9	76.4	75.9	75.5	75.0	74.5	74.0	73.5
48	78.2	77.7	77.2	76.7	76.2	75.8	75.3	74.8	74.3	73.8
49	78.5	78.0	77.5	77.0	76.5	76.0	75.6	75.1	74.6	74.2
50	78.7	78.2	77.8	77.3	76.8	76.3	75.9	75.4	74.9	74.5
51	79.0	78.5	78.0	77.5	77.1	76.6	76.1	75.7	75.2	74.8
52	79.2	78.7	78.3	77.8	77.3	76.9	76.4	76.0	75.5	75.0
53	79.4	79.0	78.5	78.0	77.6	77.1	76.7	76.2	75.8	75.3
54	79.6	79.2	78.7	78.3	77.8	77.4	76.9	76.5	76.0	75.6
55	79.9	79.4	79.0	78.5	78.1	77.6	77.2	76.7	76.3	75.8
56	80.1	79.6	79.2	78.7	78.3	77.8	77.4	77.0	76.5	76.1
57	80.3	79.8	79.4	78.9	78.5	78.1	77.6	77.2	76.8	76.3

表 3b（续）

t—t_w / t	4.1	4.2	4.3	4.4	4.5	4.6	4.7	4.8	4.9	5.0
58	80.5	80.0	79.6	79.2	78.7	78.3	77.9	77.4	77.0	76.6
59	80.7	80.2	79.8	79.4	78.9	78.5	78.1	77.7	77.2	76.8
60	80.9	80.4	80.0	79.6	79.1	78.7	78.3	77.9	77.4	77.0
61	81.0	80.6	80.2	79.8	79.3	78.9	78.5	78.1	77.7	77.2
62	81.2	80.8	80.4	80.0	79.5	79.1	78.7	78.3	77.9	77.5
63	81.4	81.0	80.6	80.1	79.7	79.3	78.9	78.5	78.1	77.7
64	81.6	81.1	80.7	80.3	79.9	79.5	79.1	78.7	78.3	77.9
65	81.7	81.3	80.9	80.5	80.1	79.7	79.3	78.9	78.5	78.1
66	81.9	81.5	81.1	80.7	80.3	79.9	79.5	79.1	78.7	78.3
67	82.0	81.6	81.2	80.8	80.4	80.0	79.6	79.2	78.8	78.4
68	82.2	81.8	81.4	81.0	80.6	80.2	79.8	79.4	79.0	78.6
69	82.4	82.0	81.6	81.2	80.8	80.4	80.0	79.6	79.2	78.8
70	82.5	82.1	81.7	81.3	80.9	80.5	80.1	79.8	79.4	79.0
71	82.6	82.3	81.9	81.5	81.1	80.7	80.3	79.9	79.5	79.2
72	82.8	82.4	82.0	81.6	81.2	80.8	80.5	80.1	79.7	79.3
73	82.9	82.5	82.2	81.8	81.4	81.0	80.6	80.2	79.9	79.5
74	83.1	82.7	82.3	81.9	81.5	81.2	80.8	80.4	80.0	79.7
75	83.2	82.8	82.4	82.1	81.7	81.3	80.9	80.6	80.2	79.8
76	83.3	82.9	82.6	82.2	81.8	81.4	81.1	80.7	80.3	80.0
77	83.5	83.1	82.7	82.3	82.0	81.6	81.2	80.9	80.5	80.1
78	83.6	83.2	82.8	82.5	82.1	81.7	81.4	81.0	80.6	80.3
79	83.7	83.3	83.0	82.6	82.2	81.9	81.5	81.1	80.8	80.4
80	83.8	83.5	83.1	82.7	82.4	82.0	81.6	81.3	80.9	80.6
81	83.9	83.6	83.2	82.9	82.5	82.1	81.8	81.4	81.1	80.7
82	84.1	83.7	83.3	83.0	82.6	82.3	81.9	81.5	81.2	80.8
83	84.2	83.8	83.5	83.1	82.7	82.4	82.0	81.7	81.3	81.0
84	84.3	83.9	83.6	83.2	82.9	82.5	82.2	81.8	81.5	81.1
85	84.4	84.0	83.7	83.3	83.0	82.6	82.3	81.9	81.6	81.2
86	84.5	84.2	83.8	83.5	83.1	82.8	82.4	82.1	81.7	81.4
87	84.6	84.3	83.9	83.6	83.2	82.9	82.5	82.2	81.9	81.5
88	84.7	84.4	84.0	83.7	83.3	83.0	82.7	82.3	82.0	81.6
89	84.8	84.5	84.1	83.8	83.5	83.1	82.8	82.4	82.1	81.8
90	84.9	84.6	84.3	83.9	83.6	83.2	82.9	82.6	82.2	81.9
91	85.0	84.7	84.4	84.0	83.7	83.3	83.0	82.7	82.3	82.0
92	85.1	84.8	84.5	84.1	83.8	83.5	83.1	82.8	82.5	82.1
93	85.2	84.9	84.6	84.2	83.9	83.6	83.2	82.9	82.6	82.2
94	85.3	85.0	84.7	84.3	84.0	83.7	83.3	83.0	82.7	82.4
95	85.4	85.1	84.8	84.4	84.1	83.8	83.5	83.1	82.8	82.5
96	85.5	85.2	84.9	84.5	84.2	83.9	83.6	83.2	82.9	82.6
97	85.6	85.3	85.0	84.6	84.3	84.0	83.7	83.3	83.0	82.7
98	85.7	85.4	85.1	84.7	84.4	84.1	83.8	83.5	83.1	82.8
99	85.8	85.5	85.2	84.8	84.5	84.2	83.9	83.6	83.2	82.9
100	85.9	85.6	85.3	84.9	84.6	84.3	84.0	83.7	83.3	83.0

表 3b（续）

$t-t_w$ / t	5.2	5.4	5.6	5.8	6.0	6.2	6.4	6.6	6.8	7.0
15	46.8	44.9	43.0	41.2	39.3	37.5	35.7	33.9	32.1	30.3
16	48.5	46.7	44.9	43.1	41.3	39.5	37.8	36.0	34.3	32.5
17	50.1	48.3	46.6	44.8	43.1	41.4	39.7	38.0	36.3	34.6
18	51.6	49.9	48.2	46.5	44.8	43.2	41.5	39.9	38.2	36.6
19	53.0	51.3	49.7	48.1	46.4	44.8	43.2	41.6	40.1	38.5
20	54.3	52.7	51.1	49.5	48.0	46.4	44.8	43.3	41.8	40.2
21	55.5	54.0	52.4	50.9	49.4	47.9	46.4	44.9	43.4	41.9
22	56.7	55.2	53.7	52.2	50.7	49.2	47.8	46.3	44.9	43.4
23	57.8	56.3	54.9	53.4	52.0	50.5	49.1	47.7	46.3	44.9
24	58.9	57.4	56.0	54.6	53.2	51.8	50.4	49.0	47.6	46.3
25	59.8	58.4	57.0	55.7	54.3	52.9	51.6	50.2	48.9	47.6
26	60.8	59.4	58.0	56.7	55.4	54.0	52.7	51.4	50.1	48.8
27	61.6	60.3	59.0	57.7	56.4	55.1	53.8	52.5	51.2	50.0
28	62.5	61.2	59.9	58.6	57.3	56.0	54.8	53.5	52.3	51.1
29	63.3	62.0	60.7	59.5	58.2	57.0	55.7	54.5	53.3	52.1
30	64.0	62.8	61.5	60.3	59.1	57.9	56.6	55.4	54.3	53.1
31	64.7	63.5	62.3	61.1	59.9	58.7	57.5	56.3	55.2	54.0
32	65.4	64.2	63.0	61.8	60.6	59.5	58.3	57.2	56.0	54.9
33	66.0	64.9	63.7	62.5	61.4	60.2	59.1	58.0	56.9	55.7
34	66.7	65.5	64.4	63.2	62.1	61.0	59.8	58.7	57.6	56.6
35	67.2	66.1	65.0	63.9	62.7	61.6	60.5	59.5	58.4	57.3
36	67.8	66.7	65.6	64.5	63.4	62.3	61.2	60.2	59.1	58.0
37	68.3	67.2	66.1	65.1	64.0	62.9	61.9	60.8	59.8	58.7
38	68.8	67.8	66.7	65.6	64.6	63.5	62.5	61.4	60.4	59.4
39	69.3	68.3	67.2	66.2	65.1	64.1	63.1	62.0	61.0	60.0
40	69.8	68.7	67.7	66.7	65.6	64.6	63.6	62.6	61.6	60.6
41	70.2	69.2	68.2	67.2	66.2	65.2	64.2	63.2	62.2	61.2
42	70.7	69.6	68.6	67.6	66.6	65.7	64.7	63.7	62.7	61.8
43	71.1	70.1	69.1	68.1	67.1	66.1	65.2	64.2	63.3	62.3
44	71.5	70.5	69.5	68.5	67.6	66.6	65.6	64.7	63.8	62.8
45	71.8	70.9	69.9	68.9	68.0	67.0	66.1	65.2	64.2	63.3
46	72.2	71.2	70.3	69.3	68.4	67.5	66.5	65.6	64.7	63.8
47	72.6	71.6	70.7	69.7	68.8	67.9	67.0	66.1	65.2	64.3
48	72.9	72.0	71.0	70.1	69.2	68.3	67.4	66.5	65.6	64.7
49	73.2	72.3	71.4	70.5	69.6	68.7	67.8	66.9	66.0	65.1
50	73.5	72.6	71.7	70.8	69.9	69.0	68.1	67.3	66.4	65.5
51	73.8	72.9	72.0	71.1	70.3	69.4	68.5	67.6	66.8	65.9
52	74.1	73.2	72.3	71.5	70.6	69.7	68.9	68.0	67.1	66.3
53	74.4	73.5	72.7	71.8	70.9	70.1	69.2	68.4	67.5	66.7
54	74.7	73.8	72.9	72.1	71.2	70.4	69.5	68.7	67.9	67.0
55	75.0	74.1	73.2	72.4	71.5	70.7	69.9	69.0	68.2	67.4
56	75.2	74.4	73.5	72.7	71.8	71.0	70.2	69.3	68.5	67.7
57	75.5	74.6	73.8	72.9	72.1	71.3	70.5	69.6	68.8	68.0

表 3b（续）

t＼$t-t_w$	5.2	5.4	5.6	5.8	6.0	6.2	6.4	6.6	6.8	7.0
58	75.7	74.9	74.0	73.2	72.4	71.6	70.8	70.0	69.2	68.4
59	76.0	75.1	74.3	73.5	72.7	71.8	71.0	70.2	69.5	68.7
60	76.2	75.4	74.5	73.7	72.9	72.1	71.3	70.5	69.7	69.0
61	76.4	75.6	74.8	74.0	73.2	72.4	71.6	70.8	70.0	69.3
62	76.6	75.8	75.0	74.2	73.4	72.6	71.9	71.1	70.3	69.5
63	76.9	76.0	75.2	74.5	73.7	72.9	72.1	71.3	70.6	69.8
64	77.1	76.3	75.5	74.7	73.9	73.1	72.4	71.6	70.8	70.1
65	77.3	76.5	75.7	74.9	74.1	73.4	72.6	71.8	71.1	70.3
66	77.5	76.7	75.9	75.1	74.4	73.6	72.8	72.1	71.3	70.6
67	77.7	76.9	76.1	75.3	74.6	73.8	73.1	72.3	71.6	70.8
68	77.9	77.1	76.3	75.5	74.8	74.0	73.3	72.6	71.8	71.1
69	78.0	77.3	76.5	75.8	75.0	74.3	73.5	72.8	72.1	71.3
70	78.2	77.5	76.7	76.0	75.2	74.5	73.7	73.0	72.3	71.6
71	78.4	77.6	76.9	76.1	75.4	74.7	73.9	73.2	72.5	71.8
72	78.6	77.8	77.1	76.3	75.6	74.9	74.2	73.4	72.7	72.0
73	78.7	78.0	77.3	76.5	75.8	75.1	74.4	73.6	72.9	72.2
74	78.9	78.2	77.4	76.7	76.0	75.3	74.6	73.8	73.1	72.4
75	79.1	78.3	77.6	76.9	76.2	75.5	74.7	74.0	73.3	72.7
76	79.2	78.5	77.8	77.1	76.4	75.6	74.9	74.2	73.6	72.9
77	79.4	78.7	78.0	77.2	76.5	75.8	75.1	74.4	73.7	73.1
78	79.5	78.8	78.1	77.4	76.7	76.0	75.3	74.6	73.9	73.3
79	79.7	79.0	78.3	77.6	76.9	76.2	75.5	74.8	74.1	73.5
80	79.8	79.1	78.4	77.7	77.0	76.4	75.7	75.0	74.3	73.6
81	80.0	79.3	78.6	77.9	77.2	76.5	75.8	75.2	74.5	73.8
82	80.1	79.4	78.7	78.1	77.4	76.7	76.0	75.3	74.7	74.0
83	80.3	79.6	78.9	78.2	77.5	76.9	76.2	75.5	74.9	74.2
84	80.4	79.7	79.0	78.4	77.7	77.0	76.4	75.7	75.0	74.4
85	80.6	79.9	79.2	78.5	77.8	77.2	76.5	75.9	75.2	74.6
86	80.7	80.0	79.3	78.7	78.0	77.3	76.7	76.0	75.4	74.7
87	80.8	80.2	79.5	78.8	78.2	77.5	76.8	76.2	75.5	74.9
88	81.0	80.3	79.6	79.0	78.3	77.6	77.0	76.4	75.7	75.1
89	81.1	80.4	79.8	79.1	78.4	77.8	77.2	76.5	75.9	75.2
90	81.2	80.6	79.9	79.2	78.6	77.9	77.3	76.7	76.0	75.4
91	81.3	80.7	80.0	79.4	78.7	78.1	77.5	76.8	76.2	75.6
92	81.5	80.8	80.2	79.5	78.9	78.2	77.6	77.0	76.3	75.7
93	81.6	80.9	80.3	79.6	79.0	78.4	77.7	77.1	76.5	75.9
94	81.7	81.1	80.4	79.8	79.1	78.5	77.9	77.3	76.6	76.0
95	81.8	81.2	80.5	79.9	79.3	78.7	78.0	77.4	76.8	76.2
96	81.9	81.3	80.7	80.0	79.4	78.8	78.2	77.6	76.9	76.3
97	82.1	81.4	80.8	80.2	79.5	78.9	78.3	77.7	77.1	76.5
98	82.2	81.5	80.9	80.3	79.7	79.1	78.4	77.8	77.2	76.6
99	82.3	81.7	81.0	80.4	79.8	79.2	78.6	78.0	77.4	76.8
100	82.4	81.8	81.2	80.5	79.9	79.3	78.7	78.1	77.5	76.9

表 3b（续）

$t-t_w$ / t	7.2	7.4	7.6	7.8	8.0	8.2	8.4	8.6	8.8	9.0
15	28.5	26.7	24.9	23.2	21.4	19.7	18.0	16.3	14.6	12.9
16	30.8	29.1	27.4	25.7	24.0	22.3	20.7	19.0	17.4	15.7
17	33.0	31.3	29.7	28.0	26.4	24.8	23.2	21.6	20.0	18.4
18	35.0	33.4	31.8	30.2	28.7	27.1	25.5	24.0	22.5	20.9
19	36.9	35.4	33.8	32.3	30.8	29.3	27.8	26.3	24.8	23.3
20	38.7	37.2	35.7	34.2	32.8	31.3	29.8	28.4	27.0	25.5
21	40.4	39.0	37.5	36.1	34.6	33.2	31.8	30.4	29.0	27.6
22	42.0	40.6	39.2	37.8	36.4	35.0	33.6	32.3	30.9	29.6
23	43.5	42.1	40.8	39.4	38.0	36.7	35.4	34.0	32.7	31.4
24	44.9	43.6	42.2	40.9	39.6	38.3	37.0	35.7	34.4	33.2
25	46.3	44.9	43.6	42.4	41.1	39.8	38.5	37.3	36.0	34.8
26	47.5	46.2	45.0	43.7	42.5	41.2	40.0	38.8	37.5	36.3
27	48.7	47.5	46.2	45.0	43.8	42.6	41.4	40.2	39.0	37.8
28	49.8	48.6	47.4	46.2	45.0	43.8	42.7	41.5	40.3	39.2
29	50.9	49.7	48.5	47.4	46.2	45.0	43.9	42.7	41.6	40.5
30	51.9	50.7	49.6	48.4	47.3	46.2	45.1	43.9	42.8	41.7
31	52.9	51.7	50.6	49.5	48.4	47.3	46.2	45.1	44.0	42.9
32	53.8	52.7	51.6	50.5	49.4	48.3	47.2	46.1	45.1	44.0
33	54.6	53.6	52.5	51.4	50.3	49.3	48.2	47.2	46.1	45.1
34	55.5	54.4	53.3	52.3	51.2	50.2	49.1	48.1	47.1	46.1
35	56.3	55.2	54.2	53.1	52.1	51.1	50.0	49.0	48.0	47.0
36	57.0	56.0	54.9	53.9	52.9	51.9	50.9	49.9	48.9	48.0
37	57.7	56.7	55.7	54.7	53.7	52.7	51.7	50.7	49.8	48.8
38	58.4	57.4	56.4	55.4	54.4	53.5	52.5	51.5	50.6	49.7
39	59.0	58.1	57.1	56.1	55.2	54.2	53.2	52.3	51.4	50.4
40	59.7	58.7	57.7	56.8	55.8	54.9	54.0	53.0	52.1	51.2
41	60.3	59.3	58.4	57.4	56.5	55.6	54.6	53.7	52.8	51.9
42	60.8	59.9	59.0	58.0	57.1	56.2	55.3	54.4	53.5	52.6
43	61.4	60.5	59.5	58.6	57.7	56.8	55.9	55.0	54.2	53.3
44	61.9	61.0	60.1	59.2	58.3	57.4	56.5	55.6	54.8	53.9
45	62.4	61.5	60.6	59.7	58.8	58.0	57.1	56.2	55.4	54.5
46	62.9	62.0	61.1	60.2	59.4	58.5	57.7	56.8	56.0	55.1
47	63.4	62.5	61.6	60.7	59.9	59.0	58.2	57.3	56.5	55.7
48	63.8	62.9	62.1	61.2	60.4	59.5	58.7	57.9	57.0	56.2
49	64.3	63.4	62.5	61.7	60.9	60.0	59.2	58.4	57.6	56.7
50	64.7	63.8	63.0	62.1	61.3	60.5	59.7	58.9	58.1	57.3
51	65.1	64.2	63.4	62.6	61.8	60.9	60.1	59.3	58.5	57.7
52	65.5	64.6	63.8	63.0	62.2	61.4	60.6	59.8	59.0	58.2
53	65.8	65.0	64.2	63.4	62.6	61.8	61.0	60.2	59.4	58.7
54	66.2	65.4	64.6	63.8	63.0	62.2	61.4	60.6	59.9	59.1
55	66.6	65.8	65.0	64.2	63.4	62.6	61.8	61.1	60.3	59.5
56	66.9	66.1	65.3	64.5	63.8	63.0	62.2	61.5	60.7	59.9
57	67.2	66.5	65.7	64.9	64.1	63.4	62.6	61.8	61.1	60.3

表 3b（续）

t＼(t−t_w)	7.2	7.4	7.6	7.8	8.0	8.2	8.4	8.6	8.8	9.0
58	67.6	66.8	66.0	65.2	64.5	63.7	63.0	62.2	61.5	60.7
59	67.9	67.1	66.3	65.6	64.8	64.1	63.3	62.6	61.8	61.1
60	68.2	67.4	66.7	65.9	65.1	64.4	63.7	62.9	62.2	61.5
61	68.5	67.7	67.0	66.2	65.5	64.7	64.0	63.3	62.5	61.8
62	68.8	68.0	67.3	66.5	65.8	65.1	64.3	63.6	62.9	62.2
63	69.1	68.3	67.6	66.8	66.1	65.4	64.6	63.9	63.2	62.5
64	69.3	68.6	67.9	67.1	66.4	65.7	65.0	64.2	63.5	62.8
65	69.6	68.9	68.1	67.4	66.7	66.0	65.3	64.6	63.9	63.2
66	69.9	69.1	68.4	67.7	67.0	66.3	65.6	64.9	64.2	63.5
67	70.1	69.4	68.7	68.0	67.2	66.5	65.8	65.2	64.5	63.8
68	70.4	69.6	68.9	68.2	67.5	66.8	66.1	65.4	64.8	64.1
69	70.6	69.9	69.2	68.5	67.8	67.1	66.4	65.7	65.0	64.4
70	70.8	70.1	69.4	68.7	68.0	67.4	66.7	66.0	65.3	64.7
71	71.1	70.4	69.7	69.0	68.3	67.6	66.9	66.3	65.6	64.9
72	71.3	70.6	69.9	69.2	68.5	67.9	67.2	66.5	65.9	65.2
73	71.5	70.8	70.2	69.5	68.8	68.1	67.4	66.8	66.1	65.5
74	71.8	71.1	70.4	69.7	69.0	68.4	67.7	67.0	66.4	65.7
75	72.0	71.3	70.6	69.9	69.3	68.6	67.9	67.3	66.6	66.0
76	72.2	71.5	70.8	70.2	69.5	68.8	68.2	67.5	66.9	66.2
77	72.4	71.7	71.0	70.4	69.7	69.1	68.4	67.8	67.1	66.5
78	72.6	71.9	71.3	70.6	69.9	69.3	68.6	68.0	67.4	66.7
79	72.8	72.1	71.5	70.8	70.2	69.5	68.9	68.2	67.6	67.0
80	73.0	72.3	71.7	71.0	70.4	69.7	69.1	68.4	67.8	67.2
81	73.2	72.5	71.9	71.2	70.6	69.9	69.3	68.7	68.0	67.4
82	73.4	72.7	72.1	71.4	70.8	70.1	69.5	68.9	68.3	67.6
83	73.6	72.9	72.3	71.6	71.0	70.4	69.7	69.1	68.5	67.9
84	73.7	73.1	72.4	71.8	71.2	70.6	69.9	69.3	68.7	68.1
85	73.9	73.3	72.6	72.0	71.4	70.8	70.1	69.5	68.9	68.3
86	74.1	73.5	72.8	72.2	71.6	70.9	70.3	69.7	69.1	68.5
87	74.3	73.6	73.0	72.4	71.8	71.1	70.5	69.9	69.3	68.7
88	74.4	73.8	73.2	72.6	71.9	71.3	70.7	70.1	69.5	68.9
89	74.6	74.0	73.4	72.7	72.1	71.5	70.9	70.3	69.7	69.1
90	74.8	74.2	73.5	72.9	72.3	71.7	71.1	70.5	69.9	69.3
91	74.9	74.3	73.7	73.1	72.5	71.9	71.3	70.7	70.1	69.5
92	75.1	74.5	73.9	73.3	72.7	72.1	71.5	70.9	70.3	69.7
93	75.3	74.7	74.0	73.4	72.8	72.2	71.7	71.1	70.5	69.9
94	75.4	74.8	74.2	73.6	73.0	72.4	71.8	71.2	70.7	70.1
95	75.6	75.0	74.4	73.8	73.2	72.6	72.0	71.4	70.8	70.3
96	75.7	75.1	74.5	73.9	73.3	72.8	72.2	71.6	71.0	70.5
97	75.9	75.3	74.7	74.1	73.5	72.9	72.3	71.8	71.2	70.6
98	76.0	75.4	74.8	74.3	73.7	73.1	72.5	71.9	71.4	70.8
99	76.2	75.6	75.0	74.4	73.8	73.3	72.7	72.1	71.5	71.0
100	76.3	75.7	75.2	74.6	74.0	73.4	72.9	72.3	71.7	71.2

表 3b（续）

t﹨(t−t_w)	9.2	9.4	9.6	9.8	10.0	10.2	10.4	10.6	10.8	11.0
15	11.2	9.5	7.8	6.2	4.5	2.9	1.2			
16	14.1	12.5	10.9	9.3	7.7	6.1	4.5	3.0	1.4	
17	16.9	15.3	13.7	12.2	10.7	9.1	7.6	6.1	4.6	3.1
18	19.4	17.9	16.4	14.9	13.4	12.0	10.5	9.0	7.6	6.2
19	21.8	20.4	18.9	17.5	16.1	14.6	13.2	11.8	10.4	9.0
20	24.1	22.7	21.3	19.9	18.5	17.1	15.8	14.4	13.0	11.7
21	26.2	24.9	23.5	22.1	20.8	19.5	18.1	16.8	15.5	14.2
22	28.2	26.9	25.6	24.3	23.0	21.7	20.4	19.1	17.8	16.6
23	30.1	28.8	27.5	26.3	25.0	23.7	22.5	21.2	20.0	18.8
24	31.9	30.6	29.4	28.1	26.9	25.7	24.5	23.3	22.1	20.9
25	33.6	32.3	31.1	29.9	28.7	27.5	26.3	25.2	24.0	22.8
26	35.1	34.0	32.8	31.6	30.4	29.3	28.1	27.0	25.8	24.7
27	36.6	35.5	34.3	33.2	32.0	30.9	29.8	28.7	27.6	26.5
28	38.0	36.9	35.8	34.7	33.6	32.4	31.4	30.3	29.2	28.1
29	39.4	38.3	37.2	36.1	35.0	33.9	32.8	31.8	30.7	29.7
30	40.6	39.6	38.5	37.4	36.4	35.3	34.3	33.2	32.2	31.2
31	41.8	40.8	39.7	38.7	37.6	36.6	35.6	34.6	33.6	32.6
32	43.0	41.9	40.9	39.9	38.9	37.9	36.9	35.9	34.9	33.9
33	44.1	43.0	42.0	41.0	40.0	39.0	38.1	37.1	36.1	35.2
34	45.1	44.1	43.1	42.1	41.1	40.2	39.2	38.2	37.3	36.4
35	46.1	45.1	44.1	43.1	42.2	41.2	40.3	39.4	38.4	37.5
36	47.0	46.0	45.1	44.1	43.2	42.3	41.3	40.4	39.5	38.6
37	47.9	46.9	46.0	45.1	44.1	43.2	42.3	41.4	40.5	39.6
38	48.7	47.8	46.9	46.0	45.0	44.1	43.2	42.4	41.5	40.6
39	49.5	48.6	47.7	46.8	45.9	45.0	44.1	43.3	42.4	41.5
40	50.3	49.4	48.5	47.6	46.7	45.9	45.0	44.1	43.3	42.4
41	51.0	50.1	49.3	48.4	47.5	46.7	45.8	45.0	44.1	43.3
42	51.7	50.9	50.0	49.1	48.3	47.4	46.6	45.8	44.9	44.1
43	52.4	51.6	50.7	49.9	49.0	48.2	47.4	46.5	45.7	44.9
44	53.1	52.2	51.4	50.5	49.7	48.9	48.1	47.3	46.5	45.7
45	53.7	52.8	52.0	51.2	50.4	49.6	48.8	48.0	47.2	46.4
46	54.3	53.5	52.6	51.8	51.0	50.2	49.4	48.6	47.8	47.1
47	54.9	54.0	53.2	52.4	51.6	50.8	50.1	49.3	48.5	47.7
48	55.4	54.6	53.8	53.0	52.2	51.4	50.7	49.9	49.1	48.4
49	55.9	55.2	54.4	53.6	52.8	52.0	51.3	50.5	49.7	49.0
50	56.5	55.7	54.9	54.1	53.3	52.6	51.8	51.1	50.3	49.6
51	57.0	56.2	55.4	54.6	53.9	53.1	52.4	51.6	50.9	50.2
52	57.4	56.7	55.9	55.1	54.4	53.6	52.9	52.2	51.4	50.7
53	57.9	57.1	56.4	55.6	54.9	54.1	53.4	52.7	52.0	51.2
54	58.3	57.6	56.8	56.1	55.4	54.6	53.9	53.2	52.5	51.8
55	58.8	58.0	57.3	56.6	55.8	55.1	54.4	53.7	53.0	52.3
56	59.2	58.5	57.7	57.0	56.3	55.6	54.8	54.1	53.4	52.7
57	59.6	58.9	58.1	57.4	56.7	56.0	55.3	54.6	53.9	53.2

表 3b（续）

$t-t_w$ t	9.2	9.4	9.6	9.8	10.0	10.2	10.4	10.6	10.8	11.0
58	60.0	59.3	58.6	57.8	57.1	56.4	55.7	55.0	54.3	53.7
59	60.4	59.7	59.0	58.2	57.5	56.8	56.2	55.5	54.8	54.1
60	60.8	60.0	59.3	58.6	57.9	57.2	56.6	55.9	55.2	54.5
61	61.1	60.4	59.7	59.0	58.3	57.6	57.0	56.3	55.6	54.9
62	61.5	60.8	60.1	59.4	58.7	58.0	57.3	56.7	56.0	55.3
63	61.8	61.1	60.4	59.7	59.1	58.4	57.7	57.1	56.4	55.7
64	62.1	61.5	60.8	60.1	59.4	58.8	58.1	57.4	56.8	56.1
65	62.5	61.8	61.1	60.4	59.8	59.1	58.4	57.8	57.1	56.5
66	62.8	62.1	61.4	60.8	60.1	59.4	58.8	58.1	57.5	56.9
67	63.1	62.4	61.8	61.1	60.4	59.8	59.1	58.5	57.8	57.2
68	63.4	62.7	62.1	61.4	60.8	60.1	59.5	58.8	58.2	57.6
69	63.7	63.0	62.4	61.7	61.1	60.4	59.8	59.2	58.5	57.9
70	64.0	63.3	62.7	62.0	61.4	60.7	60.1	59.5	58.8	58.2
71	64.3	63.6	63.0	62.3	61.7	61.0	60.4	59.8	59.2	58.5
72	64.5	63.9	63.3	62.6	62.0	61.3	60.7	60.1	59.5	58.9
73	64.8	64.2	63.5	62.9	62.3	61.6	61.0	60.4	59.8	59.2
74	65.1	64.4	63.8	63.2	62.5	61.9	61.3	60.7	60.1	59.5
75	65.3	64.7	64.1	63.4	62.8	62.2	61.6	61.0	60.4	59.8
76	65.6	65.0	64.3	63.7	63.1	62.5	61.9	61.3	60.7	60.1
77	65.8	65.2	64.6	64.0	63.4	62.7	62.1	61.5	60.9	60.3
78	66.1	65.5	64.8	64.2	63.6	63.0	62.4	61.8	61.2	60.6
79	66.3	65.7	65.1	64.5	63.9	63.3	62.7	62.1	61.5	60.9
80	66.6	66.0	65.3	64.7	64.1	63.5	62.9	62.3	61.7	61.2
81	66.8	66.2	65.6	65.0	64.4	63.8	63.2	62.6	62.0	61.4
82	67.0	66.4	65.8	65.2	64.6	64.0	63.4	62.8	62.3	61.7
83	67.3	66.6	66.0	65.4	64.9	64.3	63.7	63.1	62.5	61.9
84	67.5	66.9	66.3	65.7	65.1	64.5	63.9	63.3	62.8	62.2
85	67.7	67.1	66.5	65.9	65.3	64.7	64.2	63.6	63.0	62.4
86	67.9	67.3	66.7	66.1	65.5	65.0	64.4	63.8	63.2	62.7
87	68.1	67.5	66.9	66.4	65.8	65.2	64.6	64.1	63.5	62.9
88	68.3	67.7	67.2	66.6	66.0	65.4	64.8	64.3	63.7	63.2
89	68.5	67.9	67.4	66.8	66.2	65.6	65.1	64.5	63.9	63.4
90	68.7	68.1	67.6	67.0	66.4	65.9	65.3	64.7	64.2	63.6
91	68.9	68.4	67.8	67.2	66.6	66.1	65.5	65.0	64.4	63.8
92	69.1	68.6	68.0	67.4	66.8	66.3	65.7	65.2	64.6	64.1
93	69.3	68.7	68.2	67.6	67.0	66.5	65.9	65.4	64.8	64.3
94	69.5	68.9	68.4	67.8	67.3	66.7	66.1	65.6	65.0	64.5
95	69.7	69.1	68.6	68.0	67.5	66.9	66.3	65.8	65.3	64.7
96	69.9	69.3	68.8	68.2	67.6	67.1	66.5	66.0	65.5	64.9
97	70.1	69.5	68.9	68.4	67.8	67.3	66.7	66.2	65.7	65.1
98	70.2	69.7	69.1	68.6	68.0	67.5	66.9	66.4	65.9	65.3
99	70.4	69.9	69.3	68.8	68.2	67.7	67.1	66.6	66.1	65.5
100	70.6	70.1	69.5	69.0	68.4	67.9	67.3	66.8	66.3	65.7

表 3b（续）

$t-t_w$ / t	11.5	12.0	12.5	13.5	13.5	14.0	14.5	15.0	15.5	16.0
15										
16										
17										
18	2.6									
19	5.6	2.2								
20	8.4	5.1	1.8							
21	11.0	7.8	4.7	1.6						
22	13.4	10.3	7.3	4.3	1.4					
23	15.7	12.8	9.8	6.9	4.0	1.2				
24	17.9	15.0	12.2	9.3	6.6	3.8	1.1			
25	20.0	17.1	14.4	11.6	8.9	6.3	3.7	1.1		
26	21.9	19.2	16.5	13.8	11.2	8.6	6.1	3.6	1.1	
27	23.7	21.1	18.4	15.8	13.3	10.8	8.3	5.9	3.5	1.1
28	25.5	22.8	20.3	17.8	15.3	12.8	10.4	8.1	5.7	3.4
29	27.1	24.5	22.0	19.6	17.2	14.8	12.4	10.1	7.9	5.6
30	28.6	26.1	23.7	21.3	18.9	16.6	14.3	12.1	9.9	7.7
31	30.1	27.7	25.3	22.9	20.6	18.3	16.1	13.9	11.8	9.6
32	31.5	29.1	26.8	24.5	22.2	20.0	17.8	15.7	13.5	11.5
33	32.8	30.5	28.2	25.9	23.7	21.5	19.4	17.3	15.2	13.2
34	34.0	31.8	29.5	27.3	25.1	23.0	20.9	18.9	16.9	14.9
35	35.2	33.0	30.8	28.6	26.5	24.4	22.4	20.4	18.4	16.4
36	36.3	34.2	32.0	29.9	27.8	25.8	23.7	21.8	19.8	17.9
37	37.4	35.3	33.1	31.1	29.0	27.0	25.1	23.1	21.2	19.3
38	38.4	36.3	34.2	32.2	30.2	28.2	26.3	24.4	22.5	20.7
39	39.4	37.3	35.3	33.3	31.3	29.4	27.5	25.6	23.8	22.0
40	40.4	38.3	36.3	34.3	32.4	30.5	28.6	26.8	25.0	23.2
41	41.2	39.2	37.2	35.3	33.4	31.5	29.7	27.9	26.1	24.4
42	42.1	40.1	38.2	36.2	34.4	32.5	30.7	28.9	27.2	25.5
43	42.9	40.9	39.0	37.1	35.3	33.5	31.7	29.9	28.2	26.5
44	43.7	41.8	39.9	38.0	36.2	34.4	32.6	30.9	29.2	27.5
45	44.4	42.5	40.7	38.8	37.0	35.3	33.5	31.8	30.2	28.5
46	45.2	43.3	41.4	39.6	37.8	36.1	34.4	32.7	31.1	29.5
47	45.8	44.0	42.2	40.4	38.6	36.9	35.2	33.6	31.9	30.3
48	46.5	44.7	42.9	41.1	39.4	37.7	36.0	34.4	32.8	31.2
49	47.1	45.3	43.6	41.8	40.1	38.4	36.8	35.2	33.6	32.0
50	47.8	46.0	44.2	42.5	40.8	39.1	37.5	35.9	34.3	32.8
51	48.4	46.6	44.8	43.1	41.5	39.8	38.2	36.6	35.1	33.6
52	48.9	47.2	45.5	43.8	42.1	40.5	38.9	37.3	35.8	34.3
53	49.5	47.7	46.0	44.4	42.7	41.1	39.6	38.0	36.5	35.0
54	50.0	48.3	46.6	45.0	43.3	41.7	40.2	38.7	37.2	35.7
55	50.5	48.8	47.2	45.5	43.9	42.3	40.8	39.3	37.8	36.3
56	51.0	49.3	47.7	46.1	44.5	42.9	41.4	39.9	38.4	37.0
57	51.5	49.8	48.2	46.6	45.0	43.5	42.0	40.5	39.0	37.6

表 3b（续）

$t-t_w$ / t	11.5	12.0	12.5	13.5	13.5	14.0	14.5	15.0	15.5	16.0
58	52.0	50.3	48.7	47.1	45.6	44.0	42.5	41.0	39.6	38.2
59	52.4	50.8	49.2	47.6	46.1	44.5	43.1	41.6	40.2	38.7
60	52.9	51.2	49.7	48.1	46.6	45.0	43.6	42.1	40.7	39.3
61	53.3	51.7	50.1	48.6	47.0	45.5	44.1	42.6	41.2	39.8
62	53.7	52.1	50.6	49.0	47.5	46.0	44.6	43.1	41.7	40.4
63	54.1	52.5	51.0	49.5	48.0	46.5	45.0	43.6	42.2	40.9
64	54.5	52.9	51.4	49.9	48.4	46.9	45.5	44.1	42.7	41.4
65	54.9	53.3	51.8	50.3	48.8	47.4	46.0	44.6	43.2	41.8
66	55.3	53.7	52.2	50.7	49.2	47.8	46.4	45.0	43.6	42.3
67	55.6	54.1	52.6	51.1	49.7	48.2	46.8	45.4	44.1	42.8
68	56.0	54.5	53.0	51.5	50.1	48.6	47.2	45.9	44.5	43.2
69	56.3	54.8	53.3	51.9	50.4	49.0	47.6	46.3	45.0	43.6
70	56.7	55.2	53.7	52.2	50.8	49.4	48.0	46.7	45.4	44.1
71	57.0	55.5	54.1	52.6	51.2	49.8	48.4	47.1	45.8	44.5
72	57.3	55.9	54.4	53.0	51.6	50.2	48.8	47.5	46.2	44.9
73	57.7	56.2	54.7	53.3	51.9	50.5	49.2	47.9	46.6	45.3
74	58.0	56.5	55.1	53.6	52.3	50.9	49.5	48.2	46.9	45.7
75	58.3	56.8	55.4	54.0	52.6	51.2	49.9	48.6	47.3	46.0
76	58.6	57.1	55.7	54.3	52.9	51.6	50.2	48.9	47.7	46.4
77	58.9	57.4	56.0	54.6	53.3	51.9	50.6	49.3	48.0	46.8
78	59.2	57.7	56.3	54.9	53.6	52.2	50.9	49.6	48.4	47.1
79	59.4	58.0	56.6	55.2	53.9	52.6	51.3	50.0	48.7	47.5
80	59.7	58.3	56.9	55.5	54.2	52.9	51.6	50.3	49.0	47.8
81	60.0	58.6	57.2	55.8	54.5	53.2	51.9	50.6	49.4	48.1
82	60.3	58.9	57.5	56.1	54.8	53.5	52.2	50.9	49.7	48.5
83	60.5	59.1	57.8	56.4	55.1	53.8	52.5	51.2	50.0	48.8
84	60.8	59.4	58.0	56.7	55.4	54.1	52.8	51.6	50.3	49.1
85	61.0	59.7	58.3	57.0	55.7	54.4	53.1	51.9	50.6	49.4
86	61.3	59.9	58.6	57.2	55.9	54.7	53.4	52.2	50.9	49.7
87	61.5	60.2	58.8	57.5	56.2	54.9	53.7	52.4	51.2	50.0
88	61.8	60.4	59.1	57.8	56.5	55.2	54.0	52.7	51.5	50.3
89	62.0	60.7	59.3	58.0	56.7	55.5	54.2	53.0	51.8	50.6
90	62.3	60.9	59.6	58.3	57.0	55.7	54.5	53.3	52.1	50.9
91	62.5	61.1	59.8	58.5	57.3	56.0	54.8	53.6	52.4	51.2
92	62.7	61.4	60.1	58.8	57.5	56.3	55.0	53.8	52.6	51.5
93	62.9	61.6	60.3	59.0	57.8	56.5	55.3	54.1	52.9	51.8
94	63.2	61.8	60.5	59.3	58.0	56.8	55.6	54.4	53.2	52.0
95	63.4	62.1	60.8	59.5	58.3	57.0	55.8	54.6	53.5	52.3
96	63.6	62.3	61.0	59.7	58.5	57.3	56.1	54.9	53.7	52.6
97	63.8	62.5	61.2	60.0	58.7	57.5	56.3	55.1	54.0	52.8
98	64.0	62.7	61.5	60.2	59.0	57.8	56.6	55.4	54.2	53.1
99	64.2	62.9	61.7	60.4	59.2	58.0	56.8	55.6	54.5	53.3
100	64.4	63.2	61.9	60.7	59.4	58.2	57.0	55.9	54.7	53.6

表 3c 球状、柱状水银温度表相对湿度查算表

$P = 100 \text{ kPa}, A = 0.662 \times 10^{-3} \text{℃}^{-1} (2.5 \text{ m/s})$

t ＼ $t-t_w$	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0
15	100.0	99.0	97.9	96.9	95.9	94.9	93.9	92.9	91.9	90.9	89.9
16	100.0	99.0	98.0	97.0	96.0	95.0	94.0	93.1	92.1	91.1	90.1
17	100.0	99.0	98.1	97.1	96.1	95.2	94.2	93.3	92.3	91.4	90.4
18	100.0	99.1	98.1	97.2	96.2	95.3	94.4	93.4	92.5	91.6	90.7
19	100.0	99.1	98.2	97.2	96.3	95.4	94.5	93.6	92.7	91.8	90.9
20	100.0	99.1	98.2	97.3	96.4	95.5	94.6	93.8	92.9	92.0	91.1
21	100.0	99.1	98.2	97.4	96.5	95.6	94.8	93.9	93.1	92.2	91.4
22	100.0	99.1	98.3	97.4	96.6	95.7	94.9	94.1	93.2	92.4	91.6
23	100.0	99.2	98.3	97.5	96.7	95.8	95.0	94.2	93.4	92.6	91.7
24	100.0	99.2	98.4	97.5	96.7	95.9	95.1	94.3	93.5	92.7	91.9
25	100.0	99.2	98.4	97.6	96.8	96.0	95.2	94.4	93.7	92.9	92.1
26	100.0	99.2	98.4	97.6	96.9	96.1	95.3	94.6	93.8	93.0	92.3
27	100.0	99.2	98.5	97.7	96.9	96.2	95.4	94.7	93.9	93.2	92.4
28	100.0	99.2	98.5	97.7	97.0	96.2	95.5	94.8	94.0	93.3	92.6
29	100.0	99.3	98.5	97.8	97.0	96.3	95.6	94.9	94.1	93.4	92.7
30	100.0	99.3	98.5	97.8	97.1	96.4	95.7	95.0	94.3	93.5	92.8
31	100.0	99.3	98.6	97.9	97.2	96.4	95.7	95.0	94.4	93.7	93.0
32	100.0	99.3	98.6	97.9	97.2	96.5	95.8	95.1	94.5	93.8	93.1
33	100.0	99.3	98.6	97.9	97.3	96.6	95.9	95.2	94.5	93.9	93.2
34	100.0	99.3	98.6	98.0	97.3	96.6	96.0	95.3	94.6	94.0	93.3
35	100.0	99.3	98.7	98.0	97.3	96.7	96.0	95.4	94.7	94.1	93.4
36	100.0	99.3	98.7	98.0	97.4	96.7	96.1	95.4	94.8	94.2	93.5
37	100.0	99.4	98.7	98.1	97.4	96.8	96.1	95.5	94.9	94.2	93.6
38	100.0	99.4	98.7	98.1	97.5	96.8	96.2	95.6	95.0	94.3	93.7
39	100.0	99.4	98.7	98.1	97.5	96.9	96.3	95.6	95.0	94.4	93.8
40	100.0	99.4	98.8	98.1	97.5	96.9	96.3	95.7	95.1	94.5	93.9
41	100.0	99.4	98.8	98.2	97.6	97.0	96.4	95.8	95.2	94.6	94.0
42	100.0	99.4	98.8	98.2	97.6	97.0	96.4	95.8	95.2	94.6	94.1
43	100.0	99.4	98.8	98.2	97.6	97.0	96.5	95.9	95.3	94.7	94.1
44	100.0	99.4	98.8	98.2	97.7	97.1	96.5	95.9	95.3	94.8	94.2
45	100.0	99.4	98.8	98.3	97.7	97.1	96.5	96.0	95.4	94.8	94.3
46	100.0	99.4	98.9	98.3	97.7	97.1	96.6	96.0	95.5	94.9	94.3
47	100.0	99.4	98.9	98.3	97.7	97.2	96.6	96.1	95.5	95.0	94.4
48	100.0	99.4	98.9	98.3	97.8	97.2	96.7	96.1	95.6	95.0	94.5
49	100.0	99.4	98.9	98.3	97.8	97.2	96.7	96.2	95.6	95.1	94.5
50	100.0	99.5	98.9	98.4	97.8	97.3	96.7	96.2	95.7	95.1	94.6
51	100.0	99.5	98.9	98.4	97.8	97.3	96.8	96.2	95.7	95.2	94.7
52	100.0	99.5	98.9	98.4	97.9	97.3	96.8	96.3	95.8	95.2	94.7
53	100.0	99.5	98.9	98.4	97.9	97.4	96.8	96.3	95.8	95.3	94.8
54	100.0	99.5	99.0	98.4	97.9	97.4	96.9	96.4	95.9	95.3	94.8
55	100.0	99.5	99.0	98.4	97.9	97.4	96.9	96.4	95.9	95.4	94.9
56	100.0	99.5	99.0	98.5	98.0	97.4	96.9	96.4	95.9	95.4	94.9
57	100.0	99.5	99.0	98.5	98.0	97.5	97.0	96.5	96.0	95.5	95.0

<p align="center">表 3c（续）</p>

$\frac{t-t_w}{t}$	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0
58	100.0	99.5	99.0	98.5	98.0	97.5	97.0	96.5	96.0	95.5	95.0
59	100.0	99.5	99.0	98.5	98.0	97.5	97.0	96.5	96.1	95.6	95.1
60	100.0	99.5	99.0	98.5	98.0	97.5	97.1	96.6	96.1	95.6	95.1
61	100.0	99.5	99.0	98.5	98.0	97.6	97.1	96.6	96.1	95.6	95.2
62	100.0	99.5	99.0	98.5	98.1	97.6	97.1	96.6	96.2	95.7	95.2
63	100.0	99.5	99.0	98.6	98.1	97.6	97.1	96.7	96.2	95.7	95.3
64	100.0	99.5	99.0	98.6	98.1	97.6	97.2	96.7	96.2	95.8	95.3
65	100.0	99.5	99.1	98.6	98.1	97.7	97.2	96.7	96.3	95.8	95.3
66	100.0	99.5	99.1	98.6	98.1	97.7	97.2	96.8	96.3	95.8	95.4
67	100.0	99.5	99.1	98.6	98.2	97.7	97.2	96.8	96.3	95.9	95.4
68	100.0	99.5	99.1	98.6	98.2	97.7	97.3	96.8	96.4	95.9	95.5
69	100.0	99.5	99.1	98.6	98.2	97.7	97.3	96.8	96.4	95.9	95.5
70	100.0	99.5	99.1	98.6	98.2	97.8	97.3	96.9	96.4	96.0	95.5
71	100.0	99.6	99.1	98.7	98.2	97.8	97.3	96.9	96.4	96.0	95.6
72	100.0	99.6	99.1	98.7	98.2	97.8	97.3	96.9	96.5	96.0	95.6
73	100.0	99.6	99.1	98.7	98.2	97.8	97.4	96.9	96.5	96.1	95.6
74	100.0	99.6	99.1	98.7	98.3	97.8	97.4	97.0	96.5	96.1	95.7
75	100.0	99.6	99.1	98.7	98.3	97.8	97.4	97.0	96.6	96.1	95.7
76	100.0	99.6	99.1	98.7	98.3	97.9	97.4	97.0	96.6	96.2	95.8
77	100.0	99.6	99.1	98.7	98.3	97.9	97.5	97.0	96.6	96.2	95.8
78	100.0	99.6	99.2	98.7	98.3	97.9	97.5	97.1	96.6	96.2	95.8
79	100.0	99.6	99.2	98.7	98.3	97.9	97.5	97.1	96.7	96.3	95.8
80	100.0	99.6	99.2	98.7	98.3	97.9	97.5	97.1	96.7	96.3	95.9
81	100.0	99.6	99.2	98.8	98.3	97.9	97.5	97.1	96.7	96.3	95.9
82	100.0	99.6	99.2	98.8	98.4	98.0	97.5	97.1	96.7	96.3	95.9
83	100.0	99.6	99.2	98.8	98.4	98.0	97.6	97.2	96.8	96.4	96.0
84	100.0	99.6	99.2	98.8	98.4	98.0	97.6	97.2	96.8	96.4	96.0
85	100.0	99.6	99.2	98.8	98.4	98.0	97.6	97.2	96.8	96.4	96.0
86	100.0	99.6	99.2	98.8	98.4	98.0	97.6	97.2	96.8	96.4	96.1
87	100.0	99.6	99.2	98.8	98.4	98.0	97.6	97.2	96.9	96.5	96.1
88	100.0	99.6	99.2	98.8	98.4	98.0	97.7	97.3	96.9	96.5	96.1
89	100.0	99.6	99.2	98.8	98.4	98.1	97.7	97.3	96.9	96.5	96.1
90	100.0	99.6	99.2	98.8	98.5	98.1	97.7	97.3	96.9	96.5	96.2
91	100.0	99.6	99.2	98.8	98.5	98.1	97.7	97.3	96.9	96.6	96.2
92	100.0	99.6	99.2	98.9	98.5	98.1	97.7	97.3	97.0	96.6	96.2
93	100.0	99.6	99.2	98.9	98.5	98.1	97.7	97.4	97.0	96.6	96.2
94	100.0	99.6	99.2	98.9	98.5	98.1	97.7	97.4	97.0	96.6	96.3
95	100.0	99.6	99.3	98.9	98.5	98.1	97.8	97.4	97.0	96.7	96.3
96	100.0	99.6	99.3	98.9	98.5	98.1	97.8	97.4	97.0	96.7	96.3
97	100.0	99.6	99.3	98.9	98.5	98.2	97.8	97.4	97.1	96.7	96.3
98	100.0	99.6	99.3	98.9	98.5	98.2	97.8	97.4	97.1	96.7	96.4
99	100.0	99.6	99.3	98.9	98.5	98.2	97.8	97.5	97.1	96.7	96.4
100	100.0	99.6	99.3	98.9	98.6	98.2	97.8	97.5	97.1	96.8	96.4

表 3c（续）

t－t_w / t	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0
15	88.9	87.9	86.9	85.9	84.9	83.9	83.0	82.0	81.0	80.1
16	89.2	88.2	87.3	86.3	85.3	84.4	83.4	82.5	81.6	80.6
17	89.5	88.5	87.6	86.7	85.7	84.8	83.9	83.0	82.1	81.2
18	89.8	88.8	87.9	87.0	86.1	85.2	84.3	83.4	82.6	81.7
19	90.0	89.1	88.2	87.4	86.5	85.6	84.7	83.9	83.0	82.1
20	90.3	89.4	88.5	87.7	86.8	86.0	85.1	84.3	83.4	82.6
21	90.5	89.7	88.8	88.0	87.1	86.3	85.5	84.7	83.8	83.0
22	90.7	89.9	89.1	88.3	87.5	86.6	85.8	85.0	84.2	83.4
23	90.9	90.1	89.3	88.5	87.7	86.9	86.2	85.4	84.6	83.8
24	91.1	90.4	89.6	88.8	88.0	87.2	86.5	85.7	84.9	84.2
25	91.3	90.6	89.8	89.0	88.3	87.5	86.7	86.0	85.2	84.5
26	91.5	90.8	90.0	89.3	88.5	87.8	87.0	86.3	85.6	84.8
27	91.7	90.9	90.2	89.5	88.7	88.0	87.3	86.6	85.8	85.1
28	91.8	91.1	90.4	89.7	89.0	88.2	87.5	86.8	86.1	85.4
29	92.0	91.3	90.6	89.9	89.2	88.5	87.8	87.1	86.4	85.7
30	92.1	91.4	90.7	90.1	89.4	88.7	88.0	87.3	86.6	86.0
31	92.3	91.6	90.9	90.2	89.6	88.9	88.2	87.5	86.9	86.2
32	92.4	91.7	91.1	90.4	89.7	89.1	88.4	87.8	87.1	86.4
33	92.5	91.9	91.2	90.6	89.9	89.3	88.6	88.0	87.3	86.7
34	92.7	92.0	91.4	90.7	90.1	89.4	88.8	88.2	87.5	86.9
35	92.8	92.1	91.5	90.9	90.2	89.6	89.0	88.3	87.7	87.1
36	92.9	92.3	91.6	91.0	90.4	89.8	89.1	88.5	87.9	87.3
37	93.0	92.4	91.8	91.1	90.5	89.9	89.3	88.7	88.1	87.5
38	93.1	92.5	91.9	91.3	90.7	90.1	89.5	88.9	88.3	87.7
39	93.2	92.6	92.0	91.4	90.8	90.2	89.6	89.0	88.4	87.9
40	93.3	92.7	92.1	91.5	90.9	90.3	89.8	89.2	88.6	88.0
41	93.4	92.8	92.2	91.6	91.1	90.5	89.9	89.3	88.8	88.2
42	93.5	92.9	92.3	91.7	91.2	90.6	90.0	89.5	88.9	88.3
43	93.6	93.0	92.4	91.9	91.3	90.7	90.2	89.6	89.0	88.5
44	93.6	93.1	92.5	92.0	91.4	90.8	90.3	89.7	89.2	88.6
45	93.7	93.2	92.6	92.1	91.5	91.0	90.4	89.9	89.3	88.8
46	93.8	93.2	92.7	92.1	91.6	91.1	90.5	90.0	89.4	88.9
47	93.9	93.3	92.8	92.2	91.7	91.2	90.6	90.1	89.6	89.0
48	93.9	93.4	92.9	92.3	91.8	91.3	90.7	90.2	89.7	89.2
49	94.0	93.5	92.9	92.4	91.9	91.4	90.8	90.3	89.8	89.3
50	94.1	93.6	93.0	92.5	92.0	91.5	91.0	90.4	89.9	89.4
51	94.1	93.6	93.1	92.6	92.1	91.6	91.1	90.5	90.0	89.5
52	94.2	93.7	93.2	92.7	92.2	91.7	91.1	90.6	90.1	89.6
53	94.3	93.8	93.3	92.7	92.2	91.7	91.2	90.7	90.2	89.8
54	94.3	93.8	93.3	92.8	92.3	91.8	91.3	90.8	90.3	89.9
55	94.4	93.9	93.4	92.9	92.4	91.9	91.4	90.9	90.4	90.0
56	94.4	93.9	93.5	93.0	92.5	92.0	91.5	91.0	90.5	90.1
57	94.5	94.0	93.5	93.0	92.6	92.1	91.6	91.1	90.6	90.2

表 3c（续）

$t-t_w$ / t	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0
58	94.5	94.1	93.6	93.1	92.6	92.1	91.7	91.2	90.7	90.3
59	94.6	94.1	93.6	93.2	92.7	92.2	91.7	91.3	90.8	90.3
60	94.7	94.2	93.7	93.2	92.8	92.3	91.8	91.4	90.9	90.4
61	94.7	94.2	93.8	93.3	92.8	92.4	91.9	91.4	91.0	90.5
62	94.8	94.3	93.8	93.4	92.9	92.4	92.0	91.5	91.1	90.6
63	94.8	94.3	93.9	93.4	93.0	92.5	92.0	91.6	91.1	90.7
64	94.8	94.4	93.9	93.5	93.0	92.6	92.1	91.7	91.2	90.8
65	94.9	94.4	94.0	93.5	93.1	92.6	92.2	91.7	91.3	90.9
66	94.9	94.5	94.0	93.6	93.1	92.7	92.3	91.8	91.4	90.9
67	95.0	94.5	94.1	93.6	93.2	92.8	92.3	91.9	91.4	91.0
68	95.0	94.6	94.1	93.7	93.3	92.8	92.4	92.0	91.5	91.1
69	95.1	94.6	94.2	93.7	93.3	92.9	92.4	92.0	91.6	91.2
70	95.1	94.7	94.2	93.8	93.4	92.9	92.5	92.1	91.7	91.2
71	95.1	94.7	94.3	93.9	93.4	93.0	92.6	92.1	91.7	91.3
72	95.2	94.8	94.3	93.9	93.5	93.1	92.6	92.2	91.8	91.4
73	95.2	94.8	94.4	93.9	93.5	93.1	92.7	92.3	91.9	91.4
74	95.3	94.8	94.4	94.0	93.6	93.2	92.7	92.3	91.9	91.5
75	95.3	94.9	94.5	94.0	93.6	93.2	92.8	92.4	92.0	91.6
76	95.3	94.9	94.5	94.1	93.7	93.3	92.9	92.5	92.0	91.6
77	95.4	95.0	94.5	94.1	93.7	93.3	92.9	92.5	92.1	91.7
78	95.4	95.0	94.6	94.2	93.8	93.4	93.0	92.6	92.2	91.8
79	95.4	95.0	94.6	94.2	93.8	93.4	93.0	92.6	92.2	91.8
80	95.5	95.1	94.7	94.3	93.9	93.5	93.1	92.7	92.3	91.9
81	95.5	95.1	94.7	94.3	93.9	93.5	93.1	92.7	92.3	92.0
82	95.5	95.1	94.7	94.4	94.0	93.6	93.2	92.8	92.4	92.0
83	95.6	95.2	94.8	94.4	94.0	93.6	93.2	92.8	92.5	92.1
84	95.6	95.2	94.8	94.4	94.0	93.7	93.3	92.9	92.5	92.1
85	95.6	95.2	94.9	94.5	94.1	93.7	93.3	92.9	92.6	92.2
86	95.7	95.3	94.9	94.5	94.1	93.8	93.4	93.0	92.6	92.2
87	95.7	95.3	94.9	94.6	94.2	93.8	93.4	93.0	92.7	92.3
88	95.7	95.3	95.0	94.6	94.2	93.8	93.5	93.1	92.7	92.3
89	95.8	95.4	95.0	94.6	94.3	93.9	93.5	93.1	92.8	92.4
90	95.8	95.4	95.0	94.7	94.3	93.9	93.6	93.2	92.8	92.5
91	95.8	95.4	95.1	94.7	94.3	94.0	93.6	93.2	92.9	92.5
92	95.8	95.5	95.1	94.7	94.4	94.0	93.6	93.3	92.9	92.6
93	95.9	95.5	95.1	94.8	94.4	94.0	93.7	93.3	93.0	92.6
94	95.9	95.5	95.2	94.8	94.4	94.1	93.7	93.4	93.0	92.7
95	95.9	95.6	95.2	94.8	94.5	94.1	93.8	93.4	93.1	92.7
96	96.0	95.6	95.2	94.9	94.5	94.2	93.8	93.5	93.1	92.8
97	96.0	95.6	95.3	94.9	94.6	94.2	93.9	93.5	93.1	92.8
98	96.0	95.7	95.3	94.9	94.6	94.2	93.9	93.5	93.2	92.8
99	96.0	95.7	95.3	95.0	94.6	94.3	93.9	93.6	93.2	92.9
100	96.1	95.7	95.4	95.0	94.7	94.3	94.0	93.6	93.3	92.9

表 3c（续）

t－t_w \\ t	2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9	3.0
15	79.1	78.1	77.2	76.2	75.3	74.3	73.4	72.5	71.5	70.6
16	79.7	78.8	77.8	76.9	76.0	75.1	74.2	73.3	72.3	71.4
17	80.3	79.4	78.5	77.6	76.7	75.8	74.9	74.0	73.1	72.2
18	80.8	79.9	79.0	78.2	77.3	76.4	75.6	74.7	73.8	73.0
19	81.3	80.4	79.6	78.7	77.9	77.0	76.2	75.4	74.5	73.7
20	81.8	80.9	80.1	79.3	78.4	77.6	76.8	76.0	75.2	74.4
21	82.2	81.4	80.6	79.8	79.0	78.2	77.4	76.6	75.8	75.0
22	82.6	81.8	81.0	80.3	79.5	78.7	77.9	77.1	76.4	75.6
23	83.0	82.2	81.5	80.7	79.9	79.2	78.4	77.7	76.9	76.1
24	83.4	82.6	81.9	81.1	80.4	79.6	78.9	78.2	77.4	76.7
25	83.8	83.0	82.3	81.5	80.8	80.1	79.3	78.6	77.9	77.2
26	84.1	83.4	82.6	81.9	81.2	80.5	79.8	79.1	78.4	77.7
27	84.4	83.7	83.0	82.3	81.6	80.9	80.2	79.5	78.8	78.1
28	84.7	84.0	83.3	82.6	81.9	81.3	80.6	79.9	79.2	78.5
29	85.0	84.3	83.6	83.0	82.3	81.6	80.9	80.3	79.6	78.9
30	85.3	84.6	83.9	83.3	82.6	82.0	81.3	80.6	80.0	79.3
31	85.5	84.9	84.2	83.6	82.9	82.3	81.6	81.0	80.3	79.7
32	85.8	85.1	84.5	83.9	83.2	82.6	81.9	81.3	80.7	80.1
33	86.0	85.4	84.8	84.1	83.5	82.9	82.3	81.6	81.0	80.4
34	86.3	85.6	85.0	84.4	83.8	83.2	82.5	81.9	81.3	80.7
35	86.5	85.9	85.3	84.6	84.0	83.4	82.8	82.2	81.6	81.0
36	86.7	86.1	85.5	84.9	84.3	83.7	83.1	82.5	81.9	81.3
37	86.9	86.3	85.7	85.1	84.5	83.9	83.3	82.8	82.2	81.6
38	87.1	86.5	85.9	85.3	84.7	84.2	83.6	83.0	82.4	81.9
39	87.3	86.7	86.1	85.5	85.0	84.4	83.8	83.3	82.7	82.1
40	87.4	86.9	86.3	85.7	85.2	84.6	84.0	83.5	82.9	82.4
41	87.6	87.1	86.5	85.9	85.4	84.8	84.3	83.7	83.2	82.6
42	87.8	87.2	86.7	86.1	85.6	85.0	84.5	83.9	83.4	82.8
43	87.9	87.4	86.8	86.3	85.8	85.2	84.7	84.1	83.6	83.1
44	88.1	87.6	87.0	86.5	85.9	85.4	84.9	84.3	83.8	83.3
45	88.2	87.7	87.2	86.6	86.1	85.6	85.1	84.5	84.0	83.5
46	88.4	87.9	87.3	86.8	86.3	85.8	85.2	84.7	84.2	83.7
47	88.5	88.0	87.5	87.0	86.4	85.9	85.4	84.9	84.4	83.9
48	88.7	88.1	87.6	87.1	86.6	86.1	85.6	85.1	84.6	84.1
49	88.8	88.3	87.8	87.3	86.7	86.2	85.7	85.2	84.7	84.2
50	88.9	88.4	87.9	87.4	86.9	86.4	85.9	85.4	84.9	84.4
51	89.0	88.5	88.0	87.5	87.0	86.5	86.1	85.6	85.1	84.6
52	89.1	88.7	88.2	87.7	87.2	86.7	86.2	85.7	85.2	84.8
53	89.3	88.8	88.3	87.8	87.3	86.8	86.3	85.9	85.4	84.9
54	89.4	88.9	88.4	87.9	87.4	87.0	86.5	86.0	85.5	85.1
55	89.5	89.0	88.5	88.0	87.6	87.1	86.6	86.2	85.7	85.2
56	89.6	89.1	88.6	88.2	87.7	87.2	86.8	86.3	85.8	85.4
57	89.7	89.2	88.7	88.3	87.8	87.3	86.9	86.4	86.0	85.5

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表 3c（续）

$t{-}t_w$ / t	2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9	3.0
58	89.8	89.3	88.9	88.4	87.9	87.5	87.0	86.6	86.1	85.6
59	89.9	89.4	89.0	88.5	88.0	87.6	87.1	86.7	86.2	85.8
60	90.0	89.5	89.1	88.6	88.2	87.7	87.3	86.8	86.4	85.9
61	90.1	89.6	89.2	88.7	88.3	87.8	87.4	86.9	86.5	86.0
62	90.2	89.7	89.3	88.8	88.4	87.9	87.5	87.0	86.6	86.2
63	90.2	89.8	89.4	88.9	88.5	88.0	87.6	87.2	86.7	86.3
64	90.3	89.9	89.5	89.0	88.6	88.1	87.7	87.3	86.8	86.4
65	90.4	90.0	89.5	89.1	88.7	88.2	87.8	87.4	87.0	86.5
66	90.5	90.1	89.6	89.2	88.8	88.3	87.9	87.5	87.1	86.6
67	90.6	90.1	89.7	89.3	88.9	88.4	88.0	87.6	87.2	86.8
68	90.7	90.2	89.8	89.4	89.0	88.5	88.1	87.7	87.3	86.9
69	90.7	90.3	89.9	89.5	89.0	88.6	88.2	87.8	87.4	87.0
70	90.8	90.4	90.0	89.6	89.1	88.7	88.3	87.9	87.5	87.1
71	90.9	90.5	90.1	89.6	89.2	88.8	88.4	88.0	87.6	87.2
72	91.0	90.5	90.1	89.7	89.3	88.9	88.5	88.1	87.7	87.3
73	91.0	90.6	90.2	89.8	89.4	89.0	88.6	88.2	87.8	87.4
74	91.1	90.7	90.3	89.9	89.5	89.1	88.7	88.3	87.9	87.5
75	91.2	90.8	90.4	90.0	89.6	89.2	88.8	88.4	88.0	87.6
76	91.2	90.8	90.4	90.0	89.6	89.2	88.8	88.5	88.1	87.7
77	91.3	90.9	90.5	90.1	89.7	89.3	88.9	88.5	88.2	87.8
78	91.4	91.0	90.6	90.2	89.8	89.4	89.0	88.6	88.2	87.9
79	91.4	91.0	90.7	90.3	89.9	89.5	89.1	88.7	88.3	87.9
80	91.5	91.1	90.7	90.3	89.9	89.6	89.2	88.8	88.4	88.0
81	91.6	91.2	90.8	90.4	90.0	89.6	89.3	88.9	88.5	88.1
82	91.6	91.2	90.9	90.5	90.1	89.7	89.3	89.0	88.6	88.2
83	91.7	91.3	90.9	90.5	90.2	89.8	89.4	89.0	88.7	88.3
84	91.7	91.4	91.0	90.6	90.2	89.9	89.5	89.1	88.7	88.4
85	91.8	91.4	91.1	90.7	90.3	89.9	89.6	89.2	88.8	88.5
86	91.9	91.5	91.1	90.7	90.4	90.0	89.6	89.3	88.9	88.5
87	91.9	91.5	91.2	90.8	90.4	90.1	89.7	89.3	89.0	88.6
88	92.0	91.6	91.2	90.9	90.5	90.1	89.8	89.4	89.1	88.7
89	92.0	91.7	91.3	90.9	90.6	90.2	89.8	89.5	89.1	88.8
90	92.1	91.7	91.4	91.0	90.6	90.3	89.9	89.6	89.2	88.8
91	92.1	91.8	91.4	91.1	90.7	90.3	90.0	89.6	89.3	88.9
92	92.2	91.8	91.5	91.1	90.8	90.4	90.1	89.7	89.3	89.0
93	92.2	91.9	91.5	91.2	90.8	90.5	90.1	89.8	89.4	89.1
94	92.3	91.9	91.6	91.2	90.9	90.5	90.2	89.8	89.5	89.1
95	92.3	92.0	91.6	91.3	90.9	90.6	90.3	89.9	89.6	89.2
96	92.4	92.0	91.7	91.4	91.0	90.7	90.3	90.0	89.6	89.3
97	92.4	92.1	91.8	91.4	91.1	90.7	90.4	90.0	89.7	89.4
98	92.5	92.2	91.8	91.5	91.1	90.8	90.4	90.1	89.8	89.4
99	92.5	92.2	91.9	91.5	91.2	90.8	90.5	90.2	89.8	89.5
100	92.6	92.3	91.9	91.6	91.2	90.9	90.6	90.2	89.9	89.6

表 3c（续）

$t-t_w$ / t	3.1	3.2	3.3	3.4	3.5	3.6	3.7	3.8	3.9	4.0
15	69.7	68.7	67.8	66.9	66.0	65.1	64.1	63.2	62.3	61.4
16	70.5	69.6	68.7	67.9	67.0	66.1	65.2	64.3	63.4	62.6
17	71.4	70.5	69.6	68.8	67.9	67.0	66.2	65.3	64.5	63.6
18	72.1	71.3	70.4	69.6	68.8	67.9	67.1	66.3	65.4	64.6
19	72.9	72.0	71.2	70.4	69.6	68.8	68.0	67.1	66.3	65.5
20	73.6	72.8	72.0	71.2	70.4	69.6	68.8	68.0	67.2	66.4
21	74.2	73.4	72.6	71.9	71.1	70.3	69.5	68.8	68.0	67.3
22	74.8	74.1	73.3	72.5	71.8	71.0	70.3	69.5	68.8	68.0
23	75.4	74.7	73.9	73.2	72.4	71.7	71.0	70.2	69.5	68.8
24	75.9	75.2	74.5	73.8	73.0	72.3	71.6	70.9	70.2	69.5
25	76.5	75.8	75.0	74.3	73.6	72.9	72.2	71.5	70.8	70.1
26	77.0	76.3	75.6	74.9	74.2	73.5	72.8	72.1	71.4	70.8
27	77.4	76.7	76.1	75.4	74.7	74.0	73.4	72.7	72.0	71.4
28	77.9	77.2	76.5	75.9	75.2	74.5	73.9	73.2	72.6	71.9
29	78.3	77.6	77.0	76.3	75.7	75.0	74.4	73.7	73.1	72.5
30	78.7	78.0	77.4	76.8	76.1	75.5	74.9	74.2	73.6	73.0
31	79.1	78.4	77.8	77.2	76.5	75.9	75.3	74.7	74.1	73.5
32	79.4	78.8	78.2	77.6	77.0	76.3	75.7	75.1	74.5	73.9
33	79.8	79.2	78.6	78.0	77.3	76.7	76.1	75.5	74.9	74.4
34	80.1	79.5	78.9	78.3	77.7	77.1	76.5	75.9	75.4	74.8
35	80.4	79.8	79.2	78.7	78.1	77.5	76.9	76.3	75.8	75.2
36	80.7	80.1	79.6	79.0	78.4	77.8	77.3	76.7	76.1	75.6
37	81.0	80.4	79.9	79.3	78.7	78.2	77.6	77.0	76.5	75.9
38	81.3	80.7	80.2	79.6	79.1	78.5	77.9	77.4	76.8	76.3
39	81.6	81.0	80.5	79.9	79.4	78.8	78.3	77.7	77.2	76.6
40	81.8	81.3	80.7	80.2	79.6	79.1	78.6	78.0	77.5	77.0
41	82.1	81.5	81.0	80.5	79.9	79.4	78.8	78.3	77.8	77.3
42	82.3	81.8	81.2	80.7	80.2	79.7	79.1	78.6	78.1	77.6
43	82.5	82.0	81.5	81.0	80.4	79.9	79.4	78.9	78.4	77.9
44	82.8	82.2	81.7	81.2	80.7	80.2	79.7	79.1	78.6	78.1
45	83.0	82.5	81.9	81.4	80.9	80.4	79.9	79.4	78.9	78.4
46	83.2	82.7	82.2	81.7	81.2	80.6	80.2	79.7	79.2	78.7
47	83.4	82.9	82.4	81.9	81.4	80.9	80.4	79.9	79.4	78.9
48	83.6	83.1	82.6	82.1	81.6	81.1	80.6	80.1	79.6	79.2
49	83.8	83.3	82.8	82.3	81.8	81.3	80.8	80.3	79.9	79.4
50	83.9	83.4	83.0	82.5	82.0	81.5	81.0	80.6	80.1	79.6
51	84.1	83.6	83.1	82.7	82.2	81.7	81.2	80.8	80.3	79.8
52	84.3	83.8	83.3	82.9	82.4	81.9	81.4	81.0	80.5	80.1
53	84.4	84.0	83.5	83.0	82.6	82.1	81.6	81.2	80.7	80.3
54	84.6	84.1	83.7	83.2	82.7	82.3	81.8	81.4	80.9	80.5
55	84.8	84.3	83.8	83.4	82.9	82.5	82.0	81.6	81.1	80.7
56	84.9	84.4	84.0	83.5	83.1	82.6	82.2	81.7	81.3	80.8
57	85.1	84.6	84.1	83.7	83.2	82.8	82.4	81.9	81.5	81.0

表 3c（续）

$t-t_w$ \ t	3.1	3.2	3.3	3.4	3.5	3.6	3.7	3.8	3.9	4.0
58	85.2	84.7	84.3	83.9	83.4	83.0	82.5	82.1	81.6	81.2
59	85.3	84.9	84.4	84.0	83.6	83.1	82.7	82.3	81.8	81.4
60	85.5	85.0	84.6	84.2	83.7	83.3	82.8	82.4	82.0	81.6
61	85.6	85.2	84.7	84.3	83.9	83.4	83.0	82.6	82.1	81.7
62	85.7	85.3	84.9	84.4	84.0	83.6	83.2	82.7	82.3	81.9
63	85.9	85.4	85.0	84.6	84.1	83.7	83.3	82.9	82.5	82.0
64	86.0	85.6	85.1	84.7	84.3	83.9	83.4	83.0	82.6	82.2
65	86.1	85.7	85.3	84.8	84.4	84.0	83.6	83.2	82.8	82.4
66	86.2	85.8	85.4	85.0	84.6	84.1	83.7	83.3	82.9	82.5
67	86.3	85.9	85.5	85.1	84.7	84.3	83.9	83.5	83.1	82.6
68	86.5	86.0	85.6	85.2	84.8	84.4	84.0	83.6	83.2	82.8
69	86.6	86.2	85.7	85.3	84.9	84.5	84.1	83.7	83.3	82.9
70	86.7	86.3	85.9	85.5	85.1	84.7	84.3	83.9	83.5	83.1
71	86.8	86.4	86.0	85.6	85.2	84.8	84.4	84.0	83.6	83.2
72	86.9	86.5	86.1	85.7	85.3	84.9	84.5	84.1	83.7	83.3
73	87.0	86.6	86.2	85.8	85.4	85.0	84.6	84.2	83.8	83.5
74	87.1	86.7	86.3	85.9	85.5	85.1	84.7	84.4	84.0	83.6
75	87.2	86.8	86.4	86.0	85.6	85.2	84.9	84.5	84.1	83.7
76	87.3	86.9	86.5	86.1	85.7	85.4	85.0	84.6	84.2	83.8
77	87.4	87.0	86.6	86.2	85.8	85.5	85.1	84.7	84.3	84.0
78	87.5	87.1	86.7	86.3	86.0	85.6	85.2	84.8	84.4	84.1
79	87.6	87.2	86.8	86.4	86.1	85.7	85.3	84.9	84.6	84.2
80	87.7	87.3	86.9	86.5	86.2	85.8	85.4	85.0	84.7	84.3
81	87.7	87.4	87.0	86.6	86.3	85.9	85.5	85.1	84.8	84.4
82	87.8	87.5	87.1	86.7	86.4	86.0	85.6	85.3	84.9	84.5
83	87.9	87.6	87.2	86.8	86.5	86.1	85.7	85.4	85.0	84.6
84	88.0	87.6	87.3	86.9	86.5	86.2	85.8	85.5	85.1	84.7
85	88.1	87.7	87.4	87.0	86.6	86.3	85.9	85.6	85.2	84.9
86	88.2	87.8	87.5	87.1	86.7	86.4	86.0	85.7	85.3	85.0
87	88.3	87.9	87.5	87.2	86.8	86.5	86.1	85.8	85.4	85.1
88	88.3	88.0	87.6	87.3	86.9	86.6	86.2	85.9	85.5	85.2
89	88.4	88.1	87.7	87.4	87.0	86.7	86.3	86.0	85.6	85.3
90	88.5	88.1	87.8	87.4	87.1	86.7	86.4	86.0	85.7	85.4
91	88.6	88.2	87.9	87.5	87.2	86.8	86.5	86.1	85.8	85.5
92	88.6	88.3	88.0	87.6	87.3	86.9	86.6	86.2	85.9	85.6
93	88.7	88.4	88.0	87.7	87.3	87.0	86.7	86.3	86.0	85.6
94	88.8	88.5	88.1	87.8	87.4	87.1	86.8	86.4	86.1	85.7
95	88.9	88.5	88.2	87.9	87.5	87.2	86.8	86.5	86.2	85.8
96	88.9	88.6	88.3	87.9	87.6	87.3	86.9	86.6	86.3	85.9
97	89.0	88.7	88.3	88.0	87.7	87.3	87.0	86.7	86.3	86.0
98	89.1	88.8	88.4	88.1	87.8	87.4	87.1	86.8	86.4	86.1
99	89.2	88.8	88.5	88.2	87.8	87.5	87.2	86.8	86.5	86.2
100	89.2	88.9	88.6	88.2	87.9	87.6	87.3	86.9	86.6	86.3

表 3c（续）

$t-t_w$ t	4.1	4.2	4.3	4.4	4.5	4.6	4.7	4.8	4.9	5.0
15	60.5	59.6	58.7	57.9	57.0	56.1	55.2	54.3	53.5	52.6
16	61.7	60.8	60.0	59.1	58.2	57.4	56.5	55.7	54.8	54.0
17	62.8	61.9	61.1	60.2	59.4	58.6	57.8	56.9	56.1	55.3
18	63.8	63.0	62.1	61.3	60.5	59.7	58.9	58.1	57.3	56.5
19	64.7	63.9	63.2	62.4	61.6	60.8	60.0	59.2	58.4	57.7
20	65.6	64.9	64.1	63.3	62.6	61.8	61.0	60.3	59.5	58.8
21	66.5	65.7	65.0	64.2	63.5	62.7	62.0	61.3	60.5	59.8
22	67.3	66.6	65.8	65.1	64.4	63.6	62.9	62.2	61.5	60.8
23	68.1	67.3	66.6	65.9	65.2	64.5	63.8	63.1	62.4	61.7
24	68.8	68.1	67.4	66.7	66.0	65.3	64.6	63.9	63.2	62.5
25	69.4	68.8	68.1	67.4	66.7	66.0	65.4	64.7	64.0	63.3
26	70.1	69.4	68.7	68.1	67.4	66.7	66.1	65.4	64.8	64.1
27	70.7	70.0	69.4	68.7	68.1	67.4	66.8	66.1	65.5	64.9
28	71.3	70.6	70.0	69.3	68.7	68.1	67.4	66.8	66.2	65.6
29	71.8	71.2	70.6	69.9	69.3	68.7	68.1	67.4	66.8	66.2
30	72.3	71.7	71.1	70.5	69.9	69.3	68.7	68.0	67.4	66.8
31	72.8	72.2	71.6	71.0	70.4	69.8	69.2	68.6	68.0	67.4
32	73.3	72.7	72.1	71.5	70.9	70.3	69.8	69.2	68.6	68.0
33	73.8	73.2	72.6	72.0	71.4	70.8	70.3	69.7	69.1	68.5
34	74.2	73.6	73.0	72.5	71.9	71.3	70.8	70.2	69.6	69.1
35	74.6	74.0	73.5	72.9	72.3	71.8	71.2	70.7	70.1	69.6
36	75.0	74.4	73.9	73.3	72.8	72.2	71.7	71.1	70.6	70.0
37	75.4	74.8	74.3	73.7	73.2	72.6	72.1	71.6	71.0	70.5
38	75.7	75.2	74.7	74.1	73.6	73.0	72.5	72.0	71.4	70.9
39	76.1	75.6	75.0	74.5	74.0	73.4	72.9	72.4	71.9	71.3
40	76.4	75.9	75.4	74.8	74.3	73.8	73.3	72.8	72.2	71.7
41	76.7	76.2	75.7	75.2	74.7	74.2	73.6	73.1	72.6	72.1
42	77.0	76.5	76.0	75.5	75.0	74.5	74.0	73.5	73.0	72.5
43	77.3	76.8	76.3	75.8	75.3	74.8	74.3	73.8	73.3	72.8
44	77.6	77.1	76.6	76.1	75.6	75.1	74.6	74.2	73.7	73.2
45	77.9	77.4	76.9	76.4	75.9	75.4	75.0	74.5	74.0	73.5
46	78.2	77.7	77.2	76.7	76.2	75.7	75.3	74.8	74.3	73.8
47	78.4	77.9	77.5	77.0	76.5	76.0	75.6	75.1	74.6	74.1
48	78.7	78.2	77.7	77.2	76.8	76.3	75.8	75.4	74.9	74.4
49	78.9	78.4	78.0	77.5	77.0	76.6	76.1	75.6	75.2	74.7
50	79.1	78.7	78.2	77.7	77.3	76.8	76.4	75.9	75.5	75.0
51	79.4	78.9	78.4	78.0	77.5	77.1	76.6	76.2	75.7	75.3
52	79.6	79.1	78.7	78.2	77.8	77.3	76.9	76.4	76.0	75.5
53	79.8	79.3	78.9	78.4	78.0	77.6	77.1	76.7	76.2	75.8
54	80.0	79.6	79.1	78.7	78.2	77.8	77.3	76.9	76.5	76.0
55	80.2	79.8	79.3	78.9	78.4	78.0	77.6	77.1	76.7	76.3
56	80.4	80.0	79.5	79.1	78.6	78.2	77.8	77.4	76.9	76.5
57	80.6	80.2	79.7	79.3	78.9	78.4	78.0	77.6	77.1	76.7

表 3c（续）

$t-t_w$ t	4.1	4.2	4.3	4.4	4.5	4.6	4.7	4.8	4.9	5.0
58	80.8	80.3	79.9	79.5	79.1	78.6	78.2	77.8	77.4	76.9
59	81.0	80.5	80.1	79.7	79.2	78.8	78.4	78.0	77.6	77.2
60	81.1	80.7	80.3	79.9	79.4	79.0	78.6	78.2	77.8	77.4
61	81.3	80.9	80.5	80.0	79.6	79.2	78.8	78.4	78.0	77.6
62	81.5	81.1	80.6	80.2	79.8	79.4	79.0	78.6	78.2	77.8
63	81.6	81.2	80.8	80.4	80.0	79.6	79.2	78.8	78.4	78.0
64	81.8	81.4	81.0	80.6	80.2	79.7	79.3	78.9	78.5	78.1
65	81.9	81.5	81.1	80.7	80.3	79.9	79.5	79.1	78.7	78.3
66	82.1	81.7	81.3	80.9	80.5	80.1	79.7	79.3	78.9	78.5
67	82.2	81.8	81.4	81.0	80.7	80.3	79.9	79.5	79.1	78.7
68	82.4	82.0	81.6	81.2	80.8	80.4	80.0	79.6	79.2	78.9
69	82.5	82.1	81.7	81.4	81.0	80.6	80.2	79.8	79.4	79.0
70	82.7	82.3	81.9	81.5	81.1	80.7	80.3	80.0	79.6	79.2
71	82.8	82.4	82.0	81.6	81.3	80.9	80.5	80.1	79.7	79.4
72	82.9	82.6	82.2	81.8	81.4	81.0	80.6	80.3	79.9	79.5
73	83.1	82.7	82.3	81.9	81.6	81.2	80.8	80.4	80.0	79.7
74	83.2	82.8	82.4	82.1	81.7	81.3	80.9	80.6	80.2	79.8
75	83.3	83.0	82.6	82.2	81.8	81.5	81.1	80.7	80.3	80.0
76	83.5	83.1	82.7	82.3	82.0	81.6	81.2	80.9	80.5	80.1
77	83.6	83.2	82.8	82.5	82.1	81.7	81.4	81.0	80.6	80.3
78	83.7	83.3	83.0	82.6	82.2	81.9	81.5	81.1	80.8	80.4
79	83.8	83.5	83.1	82.7	82.4	82.0	81.6	81.3	80.9	80.6
80	83.9	83.6	83.2	82.8	82.5	82.1	81.8	81.4	81.1	80.7
81	84.1	83.7	83.3	83.0	82.6	82.3	81.9	81.5	81.2	80.8
82	84.2	83.8	83.4	83.1	82.7	82.4	82.0	81.7	81.3	81.0
83	84.3	83.9	83.6	83.2	82.9	82.5	82.2	81.8	81.5	81.1
84	84.4	84.0	83.7	83.3	83.0	82.6	82.3	81.9	81.6	81.2
85	84.5	84.1	83.8	83.4	83.1	82.7	82.4	82.1	81.7	81.4
86	84.6	84.3	83.9	83.6	83.2	82.9	82.5	82.2	81.8	81.5
87	84.7	84.4	84.0	83.7	83.3	83.0	82.6	82.3	82.0	81.6
88	84.8	84.5	84.1	83.8	83.4	83.1	82.8	82.4	82.1	81.7
89	84.9	84.6	84.2	83.9	83.5	83.2	82.9	82.5	82.2	81.9
90	85.0	84.7	84.3	84.0	83.7	83.3	83.0	82.6	82.3	82.0
91	85.1	84.8	84.4	84.1	83.8	83.4	83.1	82.8	82.4	82.1
92	85.2	84.9	84.5	84.2	83.9	83.5	83.2	82.9	82.5	82.2
93	85.3	85.0	84.6	84.3	84.0	83.6	83.3	83.0	82.7	82.3
94	85.4	85.1	84.7	84.4	84.1	83.8	83.4	83.1	82.8	82.4
95	85.5	85.2	84.8	84.5	84.2	83.9	83.5	83.2	82.9	82.6
96	85.6	85.3	84.9	84.6	84.3	84.0	83.6	83.3	83.0	82.7
97	85.7	85.4	85.0	84.7	84.4	84.1	83.7	83.4	83.1	82.8
98	85.8	85.5	85.1	84.8	84.5	84.2	83.8	83.5	83.2	82.9
99	85.9	85.5	85.2	84.9	84.6	84.3	83.9	83.6	83.3	83.0
100	86.0	85.6	85.3	85.0	84.7	84.4	84.0	83.7	83.4	83.1

表 3c（续）

t \ $t-t_w$	5.2	5.4	5.6	5.8	6.0	6.2	6.4	6.6	6.8	7.0
15	50.8	49.1	47.4	45.7	44.0	42.3	40.7	39.0	37.4	35.7
16	52.3	50.6	49.0	47.3	45.7	44.0	42.4	40.8	39.2	37.6
17	53.6	52.0	50.4	48.8	47.2	45.6	44.1	42.5	41.0	39.4
18	54.9	53.4	51.8	50.2	48.7	47.2	45.6	44.1	42.6	41.1
19	56.1	54.6	53.1	51.6	50.1	48.6	47.1	45.6	44.2	42.7
20	57.3	55.8	54.3	52.8	51.4	49.9	48.5	47.0	45.6	44.2
21	58.3	56.9	55.4	54.0	52.6	51.2	49.8	48.4	47.0	45.6
22	59.3	57.9	56.5	55.1	53.7	52.4	51.0	49.6	48.3	47.0
23	60.3	58.9	57.5	56.2	54.8	53.5	52.1	50.8	49.5	48.2
24	61.2	59.8	58.5	57.2	55.8	54.5	53.2	51.9	50.7	49.4
25	62.0	60.7	59.4	58.1	56.8	55.5	54.3	53.0	51.7	50.5
26	62.8	61.5	60.3	59.0	57.7	56.5	55.2	54.0	52.8	51.6
27	63.6	62.3	61.1	59.8	58.6	57.4	56.2	54.9	53.8	52.6
28	64.3	63.1	61.8	60.6	59.4	58.2	57.0	55.8	54.7	53.5
29	65.0	63.8	62.6	61.4	60.2	59.0	57.9	56.7	55.6	54.4
30	65.6	64.5	63.3	62.1	60.9	59.8	58.6	57.5	56.4	55.3
31	66.3	65.1	63.9	62.8	61.7	60.5	59.4	58.3	57.2	56.1
32	66.9	65.7	64.6	63.4	62.3	61.2	60.1	59.0	57.9	56.9
33	67.4	66.3	65.2	64.1	63.0	61.9	60.8	59.7	58.7	57.6
34	68.0	66.8	65.7	64.7	63.6	62.5	61.4	60.4	59.3	58.3
35	68.5	67.4	66.3	65.2	64.2	63.1	62.1	61.0	60.0	59.0
36	69.0	67.9	66.8	65.8	64.7	63.7	62.7	61.6	60.6	59.6
37	69.4	68.4	67.3	66.3	65.3	64.2	63.2	62.2	61.2	60.2
38	69.9	68.8	67.8	66.8	65.8	64.8	63.8	62.8	61.8	60.8
39	70.3	69.3	68.3	67.3	66.3	65.3	64.3	63.3	62.3	61.4
40	70.7	69.7	68.7	67.7	66.7	65.7	64.8	63.8	62.9	61.9
41	71.1	70.1	69.1	68.1	67.2	66.2	65.3	64.3	63.4	62.4
42	71.5	70.5	69.5	68.6	67.6	66.7	65.7	64.8	63.8	62.9
43	71.9	70.9	69.9	69.0	68.0	67.1	66.2	65.2	64.3	63.4
44	72.2	71.3	70.3	69.4	68.4	67.5	66.6	65.7	64.8	63.9
45	72.6	71.6	70.7	69.7	68.8	67.9	67.0	66.1	65.2	64.3
46	72.9	72.0	71.0	70.1	69.2	68.3	67.4	66.5	65.6	64.7
47	73.2	72.3	71.4	70.5	69.5	68.6	67.8	66.9	66.0	65.1
48	73.5	72.6	71.7	70.8	69.9	69.0	68.1	67.3	66.4	65.5
49	73.8	72.9	72.0	71.1	70.2	69.4	68.5	67.6	66.8	65.9
50	74.1	73.2	72.3	71.4	70.6	69.7	68.8	68.0	67.1	66.3
51	74.4	73.5	72.6	71.7	70.9	70.0	69.2	68.3	67.5	66.6
52	74.6	73.8	72.9	72.0	71.2	70.3	69.5	68.6	67.8	67.0
53	74.9	74.0	73.2	72.3	71.5	70.6	69.8	69.0	68.1	67.3
54	75.2	74.3	73.4	72.6	71.8	70.9	70.1	69.3	68.5	67.7
55	75.4	74.6	73.7	72.9	72.0	71.2	70.4	69.6	68.8	68.0
56	75.6	74.8	74.0	73.1	72.3	71.5	70.7	69.9	69.1	68.3
57	75.9	75.0	74.2	73.4	72.6	71.8	71.0	70.2	69.4	68.6

表 3c（续）

$t-t_w$ / t	5.2	5.4	5.6	5.8	6.0	6.2	6.4	6.6	6.8	7.0
58	76.1	75.3	74.5	73.6	72.8	72.0	71.2	70.4	69.6	68.9
59	76.3	75.5	74.7	73.9	73.1	72.3	71.5	70.7	69.9	69.2
60	76.5	75.7	74.9	74.1	73.3	72.5	71.7	71.0	70.2	69.4
61	76.8	75.9	75.1	74.3	73.6	72.8	72.0	71.2	70.5	69.7
62	77.0	76.2	75.4	74.6	73.8	73.0	72.2	71.5	70.7	70.0
63	77.2	76.4	75.6	74.8	74.0	73.2	72.5	71.7	71.0	70.2
64	77.4	76.6	75.8	75.0	74.2	73.5	72.7	72.0	71.2	70.5
65	77.5	76.8	76.0	75.2	74.5	73.7	72.9	72.2	71.4	70.7
66	77.7	77.0	76.2	75.4	74.7	73.9	73.2	72.4	71.7	71.0
67	77.9	77.1	76.4	75.6	74.9	74.1	73.4	72.6	71.9	71.2
68	78.1	77.3	76.6	75.8	75.1	74.3	73.6	72.9	72.1	71.4
69	78.3	77.5	76.8	76.0	75.3	74.5	73.8	73.1	72.4	71.6
70	78.4	77.7	76.9	76.2	75.5	74.7	74.0	73.3	72.6	71.9
71	78.6	77.9	77.1	76.4	75.7	74.9	74.2	73.5	72.8	72.1
72	78.8	78.0	77.3	76.6	75.8	75.1	74.4	73.7	73.0	72.3
73	78.9	78.2	77.5	76.7	76.0	75.3	74.6	73.9	73.2	72.5
74	79.1	78.4	77.6	76.9	76.2	75.5	74.8	74.1	73.4	72.7
75	79.3	78.5	77.8	77.1	76.4	75.7	75.0	74.3	73.6	72.9
76	79.4	78.7	78.0	77.3	76.6	75.8	75.2	74.5	73.8	73.1
77	79.6	78.8	78.1	77.4	76.7	76.0	75.3	74.6	74.0	73.3
78	79.7	79.0	78.3	77.6	76.9	76.2	75.5	74.8	74.1	73.5
79	79.8	79.1	78.4	77.7	77.1	76.4	75.7	75.0	74.3	73.7
80	80.0	79.3	78.6	77.9	77.2	76.5	75.9	75.2	74.5	73.8
81	80.1	79.4	78.7	78.1	77.4	76.7	76.0	75.4	74.7	74.0
82	80.3	79.6	78.9	78.2	77.5	76.9	76.2	75.5	74.9	74.2
83	80.4	79.7	79.0	78.4	77.7	77.0	76.3	75.7	75.0	74.4
84	80.5	79.9	79.2	78.5	77.8	77.2	76.5	75.9	75.2	74.6
85	80.7	80.0	79.3	78.7	78.0	77.3	76.7	76.0	75.4	74.7
86	80.8	80.1	79.5	78.8	78.1	77.5	76.8	76.2	75.5	74.9
87	80.9	80.3	79.6	78.9	78.3	77.6	77.0	76.3	75.7	75.1
88	81.1	80.4	79.7	79.1	78.4	77.8	77.1	76.5	75.8	75.2
89	81.2	80.5	79.9	79.2	78.6	77.9	77.3	76.6	76.0	75.4
90	81.3	80.7	80.0	79.4	78.7	78.1	77.4	76.8	76.2	75.5
91	81.4	80.8	80.1	79.5	78.8	78.2	77.6	76.9	76.3	75.7
92	81.6	80.9	80.3	79.6	79.0	78.3	77.7	77.1	76.5	75.8
93	81.7	81.0	80.4	79.7	79.1	78.5	77.9	77.2	76.6	76.0
94	81.8	81.2	80.5	79.9	79.2	78.6	78.0	77.4	76.8	76.1
95	81.9	81.3	80.6	80.0	79.4	78.8	78.1	77.5	76.9	76.3
96	82.0	81.4	80.8	80.1	79.5	78.9	78.3	77.7	77.0	76.4
97	82.1	81.5	80.9	80.3	79.6	79.0	78.4	77.8	77.2	76.6
98	82.3	81.6	81.0	80.4	79.8	79.1	78.5	77.9	77.3	76.7
99	82.4	81.7	81.1	80.5	79.9	79.3	78.7	78.1	77.5	76.9
100	82.5	81.8	81.2	80.6	80.0	79.4	78.8	78.2	77.6	77.0

表 3c（续）

$t-t_w$ / t	7.2	7.4	7.6	7.8	8.0	8.2	8.4	8.6	8.8	9.0
15	34.1	32.5	30.9	29.3	27.7	26.1	24.5	23.0	21.4	19.9
16	36.1	34.5	32.9	31.4	29.9	28.3	26.8	25.3	23.8	22.3
17	37.9	36.4	34.9	33.4	31.9	30.4	28.9	27.5	26.0	24.6
18	39.6	38.2	36.7	35.3	33.8	32.4	31.0	29.5	28.1	26.7
19	41.3	39.8	38.4	37.0	35.6	34.2	32.8	31.5	30.1	28.7
20	42.8	41.4	40.0	38.7	37.3	36.0	34.6	33.3	32.0	30.6
21	44.3	42.9	41.6	40.2	38.9	37.6	36.3	35.0	33.7	32.4
22	45.6	44.3	43.0	41.7	40.4	39.1	37.9	36.6	35.3	34.1
23	46.9	45.6	44.3	43.1	41.8	40.6	39.3	38.1	36.9	35.7
24	48.1	46.9	45.6	44.4	43.2	41.9	40.7	39.5	38.3	37.2
25	49.3	48.0	46.8	45.6	44.4	43.2	42.1	40.9	39.7	38.6
26	50.4	49.2	48.0	46.8	45.6	44.5	43.3	42.2	41.0	39.9
27	51.4	50.2	49.1	47.9	46.8	45.6	44.5	43.4	42.3	41.2
28	52.4	51.2	50.1	48.9	47.8	46.7	45.6	44.5	43.4	42.3
29	53.3	52.2	51.0	49.9	48.8	47.8	46.7	45.6	44.5	43.5
30	54.2	53.1	52.0	50.9	49.8	48.7	47.7	46.6	45.6	44.5
31	55.0	53.9	52.8	51.8	50.7	49.7	48.6	47.6	46.6	45.6
32	55.8	54.7	53.7	52.6	51.6	50.6	49.5	48.5	47.5	46.5
33	56.5	55.5	54.5	53.4	52.4	51.4	50.4	49.4	48.4	47.5
34	57.3	56.2	55.2	54.2	53.2	52.2	51.2	50.3	49.3	48.3
35	58.0	56.9	55.9	55.0	54.0	53.0	52.0	51.1	50.1	49.2
36	58.6	57.6	56.6	55.7	54.7	53.7	52.8	51.8	50.9	50.0
37	59.2	58.3	57.3	56.3	55.4	54.4	53.5	52.6	51.6	50.7
38	59.8	58.9	57.9	57.0	56.0	55.1	54.2	53.3	52.4	51.5
39	60.4	59.5	58.5	57.6	56.7	55.8	54.8	53.9	53.0	52.2
40	61.0	60.0	59.1	58.2	57.3	56.4	55.5	54.6	53.7	52.8
41	61.5	60.6	59.7	58.8	57.9	57.0	56.1	55.2	54.3	53.5
42	62.0	61.1	60.2	59.3	58.4	57.5	56.7	55.8	54.9	54.1
43	62.5	61.6	60.7	59.8	58.9	58.1	57.2	56.4	55.5	54.7
44	63.0	62.1	61.2	60.3	59.5	58.6	57.7	56.9	56.1	55.2
45	63.4	62.5	61.7	60.8	60.0	59.1	58.3	57.4	56.6	55.8
46	63.8	63.0	62.1	61.3	60.4	59.6	58.8	57.9	57.1	56.3
47	64.3	63.4	62.6	61.7	60.9	60.1	59.2	58.4	57.6	56.8
48	64.7	63.8	63.0	62.2	61.3	60.5	59.7	58.9	58.1	57.3
49	65.1	64.2	63.4	62.6	61.8	60.9	60.1	59.3	58.6	57.8
50	65.4	64.6	63.8	63.0	62.2	61.4	60.6	59.8	59.0	58.2
51	65.8	65.0	64.2	63.4	62.6	61.8	61.0	60.2	59.4	58.7
52	66.2	65.4	64.6	63.8	63.0	62.2	61.4	60.6	59.9	59.1
53	66.5	65.7	64.9	64.1	63.3	62.6	61.8	61.0	60.3	59.5
54	66.8	66.1	65.3	64.5	63.7	62.9	62.2	61.4	60.7	59.9
55	67.2	66.4	65.6	64.8	64.1	63.3	62.5	61.8	61.0	60.3
56	67.5	66.7	65.9	65.2	64.4	63.6	62.9	62.1	61.4	60.7
57	67.8	67.0	66.3	65.5	64.7	64.0	63.2	62.5	61.8	61.0

表 3c（续）

$t-t_w$ / t	7.2	7.4	7.6	7.8	8.0	8.2	8.4	8.6	8.8	9.0
58	68.1	67.3	66.6	65.8	65.1	64.3	63.6	62.8	62.1	61.4
59	68.4	67.6	66.9	66.1	65.4	64.6	63.9	63.2	62.5	61.7
60	68.7	67.9	67.2	66.4	65.7	64.9	64.2	63.5	62.8	62.1
61	68.9	68.2	67.5	66.7	66.0	65.3	64.5	63.8	63.1	62.4
62	69.2	68.5	67.7	67.0	66.3	65.6	64.8	64.1	63.4	62.7
63	69.5	68.7	68.0	67.3	66.6	65.8	65.1	64.4	63.7	63.0
64	69.7	69.0	68.3	67.6	66.8	66.1	65.4	64.7	64.0	63.3
65	70.0	69.3	68.5	67.8	67.1	66.4	65.7	65.0	64.3	63.6
66	70.2	69.5	68.8	68.1	67.4	66.7	66.0	65.3	64.6	63.9
67	70.5	69.8	69.0	68.3	67.6	66.9	66.3	65.6	64.9	64.2
68	70.7	70.0	69.3	68.6	67.9	67.2	66.5	65.8	65.2	64.5
69	70.9	70.2	69.5	68.8	68.1	67.5	66.8	66.1	65.4	64.8
70	71.2	70.5	69.8	69.1	68.4	67.7	67.0	66.4	65.7	65.0
71	71.4	70.7	70.0	69.3	68.6	67.9	67.3	66.6	66.0	65.3
72	71.6	70.9	70.2	69.5	68.9	68.2	67.5	66.9	66.2	65.6
73	71.8	71.1	70.4	69.8	69.1	68.4	67.8	67.1	66.5	65.8
74	72.0	71.3	70.7	70.0	69.3	68.7	68.0	67.3	66.7	66.1
75	72.2	71.5	70.9	70.2	69.5	68.9	68.2	67.6	66.9	66.3
76	72.4	71.7	71.1	70.4	69.8	69.1	68.5	67.8	67.2	66.5
77	72.6	71.9	71.3	70.6	70.0	69.3	68.7	68.0	67.4	66.8
78	72.8	72.1	71.5	70.8	70.2	69.5	68.9	68.3	67.6	67.0
79	73.0	72.3	71.7	71.0	70.4	69.7	69.1	68.5	67.8	67.2
80	73.2	72.5	71.9	71.2	70.6	70.0	69.3	68.7	68.1	67.4
81	73.4	72.7	72.1	71.4	70.8	70.2	69.5	68.9	68.3	67.7
82	73.6	72.9	72.3	71.6	71.0	70.4	69.7	69.1	68.5	67.9
83	73.7	73.1	72.4	71.8	71.2	70.6	69.9	69.3	68.7	68.1
84	73.9	73.3	72.6	72.0	71.4	70.7	70.1	69.5	68.9	68.3
85	74.1	73.4	72.8	72.2	71.6	70.9	70.3	69.7	69.1	68.5
86	74.3	73.6	73.0	72.4	71.7	71.1	70.5	69.9	69.3	68.7
87	74.4	73.8	73.2	72.5	71.9	71.3	70.7	70.1	69.5	68.9
88	74.6	74.0	73.3	72.7	72.1	71.5	70.9	70.3	69.7	69.1
89	74.7	74.1	73.5	72.9	72.3	71.7	71.1	70.5	69.9	69.3
90	74.9	74.3	73.7	73.1	72.5	71.9	71.3	70.7	70.1	69.5
91	75.1	74.5	73.8	73.2	72.6	72.0	71.4	70.8	70.3	69.7
92	75.2	74.6	74.0	73.4	72.8	72.2	71.6	71.0	70.4	69.9
93	75.4	74.8	74.2	73.6	73.0	72.4	71.8	71.2	70.6	70.0
94	75.5	74.9	74.3	73.7	73.1	72.6	72.0	71.4	70.8	70.2
95	75.7	75.1	74.5	73.9	73.3	72.7	72.1	71.6	71.0	70.4
96	75.8	75.2	74.6	74.1	73.5	72.9	72.3	71.7	71.2	70.6
97	76.0	75.4	74.8	74.2	73.6	73.0	72.5	71.9	71.3	70.8
98	76.1	75.5	75.0	74.4	73.8	73.2	72.6	72.1	71.5	70.9
99	76.3	75.7	75.1	74.5	73.9	73.4	72.8	72.2	71.7	71.1
100	76.4	75.8	75.3	74.7	74.1	73.5	73.0	72.4	71.8	71.3

表 3c（续）

$t-t_w$ / t	9.2	9.4	9.6	9.8	10.0	10.2	10.4	10.6	10.8	11.0
15	18.3	16.8	15.3	13.8	12.3	10.8	9.3	7.9	6.4	5.0
16	20.8	19.4	17.9	16.4	15.0	13.6	12.1	10.7	9.3	7.9
17	23.2	21.7	20.3	18.9	17.5	16.1	14.7	13.4	12.0	10.7
18	25.3	24.0	22.6	21.2	19.9	18.5	17.2	15.9	14.5	13.2
19	27.4	26.1	24.7	23.4	22.1	20.8	19.5	18.2	16.9	15.7
20	29.3	28.0	26.7	25.5	24.2	22.9	21.7	20.4	19.2	17.9
21	31.1	29.9	28.6	27.4	26.1	24.9	23.7	22.5	21.3	20.1
22	32.9	31.6	30.4	29.2	28.0	26.8	25.6	24.4	23.2	22.1
23	34.5	33.3	32.1	30.9	29.7	28.6	27.4	26.3	25.1	24.0
24	36.0	34.8	33.7	32.5	31.4	30.2	29.1	28.0	26.9	25.8
25	37.4	36.3	35.1	34.0	32.9	31.8	30.7	29.6	28.5	27.5
26	38.8	37.7	36.6	35.5	34.4	33.3	32.2	31.2	30.1	29.0
27	40.1	39.0	37.9	36.8	35.8	34.7	33.6	32.6	31.6	30.5
28	41.3	40.2	39.2	38.1	37.1	36.0	35.0	34.0	33.0	32.0
29	42.4	41.4	40.4	39.3	38.3	37.3	36.3	35.3	34.3	33.3
30	43.5	42.5	41.5	40.5	39.5	38.5	37.5	36.5	35.6	34.6
31	44.6	43.6	42.6	41.6	40.6	39.6	38.7	37.7	36.8	35.8
32	45.5	44.6	43.6	42.6	41.7	40.7	39.8	38.8	37.9	37.0
33	46.5	45.5	44.6	43.6	42.7	41.7	40.8	39.9	39.0	38.1
34	47.4	46.4	45.5	44.6	43.6	42.7	41.8	40.9	40.0	39.1
35	48.2	47.3	46.4	45.5	44.5	43.6	42.7	41.9	41.0	40.1
36	49.0	48.1	47.2	46.3	45.4	44.5	43.6	42.8	41.9	41.0
37	49.8	48.9	48.0	47.1	46.2	45.4	44.5	43.6	42.8	41.9
38	50.6	49.7	48.8	47.9	47.0	46.2	45.3	44.5	43.6	42.8
39	51.3	50.4	49.5	48.7	47.8	47.0	46.1	45.3	44.5	43.6
40	51.9	51.1	50.2	49.4	48.5	47.7	46.9	46.0	45.2	44.4
41	52.6	51.7	50.9	50.1	49.2	48.4	47.6	46.8	46.0	45.2
42	53.2	52.4	51.6	50.7	49.9	49.1	48.3	47.5	46.7	45.9
43	53.8	53.0	52.2	51.4	50.5	49.7	48.9	48.2	47.4	46.6
44	54.4	53.6	52.8	52.0	51.2	50.4	49.6	48.8	48.0	47.3
45	55.0	54.2	53.3	52.6	51.8	51.0	50.2	49.4	48.7	47.9
46	55.5	54.7	53.9	53.1	52.3	51.6	50.8	50.0	49.3	48.5
47	56.0	55.2	54.4	53.7	52.9	52.1	51.4	50.6	49.9	49.1
48	56.5	55.7	54.9	54.2	53.4	52.7	51.9	51.2	50.4	49.7
49	57.0	56.2	55.4	54.7	53.9	53.2	52.4	51.7	51.0	50.2
50	57.5	56.7	55.9	55.2	54.4	53.7	52.9	52.2	51.5	50.8
51	57.9	57.1	56.4	55.6	54.9	54.2	53.4	52.7	52.0	51.3
52	58.3	57.6	56.8	56.1	55.4	54.6	53.9	53.2	52.5	51.8
53	58.8	58.0	57.3	56.5	55.8	55.1	54.4	53.7	53.0	52.3
54	59.2	58.4	57.7	57.0	56.2	55.5	54.8	54.1	53.4	52.7
55	59.6	58.8	58.1	57.4	56.7	56.0	55.3	54.6	53.9	53.2
56	59.9	59.2	58.5	57.8	57.1	56.4	55.7	55.0	54.3	53.6
57	60.3	59.6	58.9	58.2	57.5	56.8	56.1	55.4	54.7	54.1

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表 3c（续）

t−t_w t	9.2	9.4	9.6	9.8	10.0	10.2	10.4	10.6	10.8	11.0
58	60.7	60.0	59.3	58.6	57.9	57.2	56.5	55.8	55.1	54.5
59	61.0	60.3	59.6	58.9	58.2	57.6	56.9	56.2	55.5	54.9
60	61.4	60.7	60.0	59.3	58.6	57.9	57.3	56.6	55.9	55.3
61	61.7	61.0	60.3	59.6	59.0	58.3	57.6	57.0	56.3	55.6
62	62.0	61.3	60.7	60.0	59.3	58.6	58.0	57.3	56.7	56.0
63	62.3	61.7	61.0	60.3	59.6	59.0	58.3	57.7	57.0	56.4
64	62.7	62.0	61.3	60.6	60.0	59.3	58.7	58.0	57.4	56.7
65	63.0	62.3	61.6	61.0	60.3	59.6	59.0	58.4	57.7	57.1
66	63.3	62.6	61.9	61.3	60.6	60.0	59.3	58.7	58.0	57.4
67	63.5	62.9	62.2	61.6	60.9	60.3	59.6	59.0	58.4	57.7
68	63.8	63.2	62.5	61.9	61.2	60.6	59.9	59.3	58.7	58.1
69	64.1	63.5	62.8	62.2	61.5	60.9	60.2	59.6	59.0	58.4
70	64.4	63.7	63.1	62.4	61.8	61.2	60.5	59.9	59.3	58.7
71	64.6	64.0	63.4	62.7	62.1	61.5	60.8	60.2	59.6	59.0
72	64.9	64.3	63.6	63.0	62.4	61.7	61.1	60.5	59.9	59.3
73	65.2	64.5	63.9	63.3	62.6	62.0	61.4	60.8	60.2	59.6
74	65.4	64.8	64.1	63.5	62.9	62.3	61.7	61.1	60.5	59.9
75	65.7	65.0	64.4	63.8	63.2	62.6	61.9	61.3	60.7	60.1
76	65.9	65.3	64.7	64.0	63.4	62.8	62.2	61.6	61.0	60.4
77	66.1	65.5	64.9	64.3	63.7	63.1	62.5	61.9	61.3	60.7
78	66.4	65.8	65.1	64.5	63.9	63.3	62.7	62.1	61.5	61.0
79	66.6	66.0	65.4	64.8	64.2	63.6	63.0	62.4	61.8	61.2
80	66.8	66.2	65.6	65.0	64.4	63.8	63.2	62.6	62.0	61.5
81	67.0	66.4	65.8	65.2	64.6	64.0	63.5	62.9	62.3	61.7
82	67.3	66.7	66.1	65.5	64.9	64.3	63.7	63.1	62.5	62.0
83	67.5	66.9	66.3	65.7	65.1	64.5	63.9	63.4	62.8	62.2
84	67.7	67.1	66.5	65.9	65.3	64.7	64.2	63.6	63.0	62.5
85	67.9	67.3	66.7	66.1	65.5	65.0	64.4	63.8	63.3	62.7
86	68.1	67.5	66.9	66.3	65.8	65.2	64.6	64.1	63.5	62.9
87	68.3	67.7	67.1	66.6	66.0	65.4	64.8	64.3	63.7	63.2
88	68.5	67.9	67.3	66.8	66.2	65.6	65.1	64.5	63.9	63.4
89	68.7	68.1	67.6	67.0	66.4	65.8	65.3	64.7	64.2	63.6
90	68.9	68.3	67.8	67.2	66.6	66.0	65.5	64.9	64.4	63.8
91	69.1	68.5	68.0	67.4	66.8	66.3	65.7	65.1	64.6	64.0
92	69.3	68.7	68.1	67.6	67.0	66.5	65.9	65.4	64.8	64.3
93	69.5	68.9	68.3	67.8	67.2	66.7	66.1	65.6	65.0	64.5
94	69.7	69.1	68.5	68.0	67.4	66.9	66.3	65.8	65.2	64.7
95	69.8	69.3	68.7	68.2	67.6	67.1	66.5	66.0	65.4	64.9
96	70.0	69.5	68.9	68.3	67.8	67.3	66.7	66.2	65.6	65.1
97	70.2	69.6	69.1	68.5	68.0	67.4	66.9	66.4	65.8	65.3
98	70.4	69.8	69.3	68.7	68.2	67.6	67.1	66.6	66.0	65.5
99	70.6	70.0	69.4	68.9	68.4	67.8	67.3	66.8	66.2	65.7
100	70.7	70.2	69.6	69.1	68.5	68.0	67.5	66.9	66.4	65.9

表 3c（续）

$t \diagdown t-t_w$	11.5	12.0	12.5	13.5	13.5	14.0	14.5	15.0	15.5	16.0
15	1.4									
16	4.4	1.0								
17	7.3	4.0	0.7							
18	10.0	6.8	3.6	0.5						
19	12.5	9.4	6.4	3.4	0.4					
20	14.9	11.9	8.9	6.0	3.2	0.3				
21	17.1	14.2	11.3	8.5	5.7	3.0	0.3			
22	19.2	16.4	13.6	10.8	8.1	5.5	2.9	0.3		
23	21.2	18.4	15.7	13.1	10.4	7.9	5.3	2.8	0.4	
24	23.0	20.4	17.7	15.1	12.6	10.1	7.6	5.2	2.8	0.4
25	24.8	22.2	19.6	17.1	14.6	12.2	9.8	7.4	5.1	2.8
26	26.4	23.9	21.4	18.9	16.5	14.1	11.8	9.5	7.2	5.0
27	28.0	25.5	23.1	20.7	18.3	16.0	13.7	11.5	9.3	7.1
28	29.5	27.1	24.7	22.3	20.0	17.7	15.5	13.3	11.2	9.1
29	30.9	28.5	26.2	23.9	21.6	19.4	17.2	15.1	13.0	10.9
30	32.2	29.9	27.6	25.4	23.2	21.0	18.9	16.8	14.7	12.7
31	33.5	31.2	29.0	26.8	24.6	22.5	20.4	18.3	16.3	14.4
32	34.7	32.4	30.2	28.1	26.0	23.9	21.8	19.8	17.9	15.9
33	35.8	33.6	31.5	29.4	27.3	25.2	23.2	21.3	19.3	17.4
34	36.9	34.7	32.6	30.6	28.5	26.5	24.5	22.6	20.7	18.9
35	37.9	35.8	33.7	31.7	29.7	27.7	25.8	23.9	22.0	20.2
36	38.9	36.8	34.8	32.8	30.8	28.9	27.0	25.1	23.3	21.5
37	39.9	37.8	35.8	33.8	31.9	30.0	28.1	26.3	24.5	22.7
38	40.7	38.7	36.7	34.8	32.9	31.0	29.2	27.4	25.6	23.9
39	41.6	39.6	37.7	35.7	33.9	32.0	30.2	28.5	26.7	25.0
40	42.4	40.5	38.5	36.7	34.8	33.0	31.2	29.5	27.8	26.1
41	43.2	41.3	39.4	37.5	35.7	33.9	32.2	30.4	28.7	27.1
42	44.0	42.0	40.2	38.3	36.5	34.8	33.1	31.4	29.7	28.1
43	44.7	42.8	40.9	39.1	37.4	35.6	33.9	32.2	30.6	29.0
44	45.4	43.5	41.7	39.9	38.1	36.4	34.7	33.1	31.5	29.9
45	46.0	44.2	42.4	40.6	38.9	37.2	35.5	33.9	32.3	30.7
46	46.7	44.9	43.1	41.3	39.6	37.9	36.3	34.7	33.1	31.6
47	47.3	45.5	43.7	42.0	40.3	38.7	37.0	35.4	33.9	32.3
48	47.9	46.1	44.4	42.7	41.0	39.3	37.7	36.2	34.6	33.1
49	48.4	46.7	45.0	43.3	41.6	40.0	38.4	36.9	35.3	33.8
50	49.0	47.3	45.6	43.9	42.2	40.6	39.1	37.5	36.0	34.5
51	49.5	47.8	46.1	44.5	42.8	41.3	39.7	38.2	36.7	35.2
52	50.0	48.3	46.7	45.0	43.4	41.9	40.3	38.8	37.3	35.9
53	50.5	48.9	47.2	45.6	44.0	42.4	40.9	39.4	37.9	36.5
54	51.0	49.4	47.7	46.1	44.5	43.0	41.5	40.0	38.5	37.1
55	51.5	49.8	48.2	46.6	45.1	43.5	42.0	40.5	39.1	37.7
56	52.0	50.3	48.7	47.1	45.6	44.0	42.6	41.1	39.7	38.3
57	52.4	50.8	49.2	47.6	46.1	44.6	43.1	41.6	40.2	38.8

表 3c（续）

$t-t_w$ / t	11.5	12.0	12.5	13.5	13.5	14.0	14.5	15.0	15.5	16.0
58	52.8	51.2	49.6	48.1	46.5	45.0	43.6	42.1	40.7	39.3
59	53.2	51.6	50.1	48.5	47.0	45.5	44.1	42.6	41.2	39.9
60	53.6	52.0	50.5	49.0	47.5	46.0	44.5	43.1	41.7	40.4
61	54.0	52.5	50.9	49.4	47.9	46.4	45.0	43.6	42.2	40.9
62	54.4	52.9	51.3	49.8	48.3	46.9	45.4	44.1	42.7	41.3
63	54.8	53.2	51.7	50.2	48.7	47.3	45.9	44.5	43.1	41.8
64	55.2	53.6	52.1	50.6	49.1	47.7	46.3	44.9	43.6	42.3
65	55.5	54.0	52.5	51.0	49.5	48.1	46.7	45.4	44.0	42.7
66	55.9	54.3	52.8	51.4	49.9	48.5	47.1	45.8	44.4	43.1
67	56.2	54.7	53.2	51.7	50.3	48.9	47.5	46.2	44.8	43.5
68	56.5	55.0	53.6	52.1	50.7	49.3	47.9	46.6	45.2	44.0
69	56.9	55.4	53.9	52.5	51.0	49.7	48.3	47.0	45.6	44.4
70	57.2	55.7	54.2	52.8	51.4	50.0	48.7	47.3	46.0	44.7
71	57.5	56.0	54.6	53.1	51.7	50.4	49.0	47.7	46.4	45.1
72	57.8	56.3	54.9	53.5	52.1	50.7	49.4	48.1	46.8	45.5
73	58.1	56.6	55.2	53.8	52.4	51.1	49.7	48.4	47.1	45.9
74	58.4	56.9	55.5	54.1	52.7	51.4	50.1	48.8	47.5	46.2
75	58.7	57.2	55.8	54.4	53.1	51.7	50.4	49.1	47.8	46.6
76	59.0	57.5	56.1	54.7	53.4	52.0	50.7	49.4	48.2	46.9
77	59.2	57.8	56.4	55.0	53.7	52.4	51.0	49.8	48.5	47.3
78	59.5	58.1	56.7	55.3	54.0	52.7	51.4	50.1	48.8	47.6
79	59.8	58.4	57.0	55.6	54.3	53.0	51.7	50.4	49.2	47.9
80	60.0	58.6	57.3	55.9	54.6	53.3	52.0	50.7	49.5	48.3
81	60.3	58.9	57.5	56.2	54.9	53.6	52.3	51.0	49.8	48.6
82	60.6	59.2	57.8	56.5	55.1	53.8	52.6	51.3	50.1	48.9
83	60.8	59.4	58.1	56.7	55.4	54.1	52.9	51.6	50.4	49.2
84	61.1	59.7	58.3	57.0	55.7	54.4	53.2	51.9	50.7	49.5
85	61.3	59.9	58.6	57.3	56.0	54.7	53.4	52.2	51.0	49.8
86	61.5	60.2	58.8	57.5	56.2	55.0	53.7	52.5	51.3	50.1
87	61.8	60.4	59.1	57.8	56.5	55.2	54.0	52.8	51.6	50.4
88	62.0	60.7	59.3	58.0	56.8	55.5	54.3	53.0	51.8	50.7
89	62.2	60.9	59.6	58.3	57.0	55.8	54.5	53.3	52.1	50.9
90	62.5	61.1	59.8	58.5	57.3	56.0	54.8	53.6	52.4	51.2
91	62.7	61.4	60.1	58.8	57.5	56.3	55.0	53.8	52.7	51.5
92	62.9	61.6	60.3	59.0	57.8	56.5	55.3	54.1	52.9	51.8
93	63.1	61.8	60.5	59.2	58.0	56.8	55.5	54.4	53.2	52.0
94	63.4	62.0	60.8	59.5	58.2	57.0	55.8	54.6	53.4	52.3
95	63.6	62.3	61.0	59.7	58.5	57.2	56.0	54.9	53.7	52.6
96	63.8	62.5	61.2	59.9	58.7	57.5	56.3	55.1	53.9	52.8
97	64.0	62.7	61.4	60.2	58.9	57.7	56.5	55.4	54.2	53.1
98	64.2	62.9	61.6	60.4	59.2	58.0	56.8	55.6	54.4	53.3
99	64.4	63.1	61.9	60.6	59.4	58.2	57.0	55.8	54.7	53.6
100	64.6	63.3	62.1	60.8	59.6	58.4	57.2	56.1	54.9	53.8

表 4a₁ 球状水银温度表相对湿度查算表

$$P = 90\ \text{kPa}, A = 0.857 \times 10^{-3}\,°\text{C}^{-1}(0.4\ \text{m/s})$$

$t-t_w$ ＼ t	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0
15	100.0	98.9	97.8	96.7	95.6	94.6	93.5	92.4	91.3	90.3	89.2
16	100.0	98.9	97.9	96.8	95.8	94.7	93.7	92.6	91.6	90.6	89.5
17	100.0	99.0	97.9	96.9	95.9	94.9	93.9	92.9	91.9	90.8	89.9
18	100.0	99.0	98.0	97.0	96.0	95.0	94.0	93.1	92.1	91.1	90.1
19	100.0	99.0	98.1	97.1	96.1	95.2	94.2	93.3	92.3	91.4	90.4
20	100.0	99.1	98.1	97.2	96.2	95.3	94.4	93.4	92.5	91.6	90.7
21	100.0	99.1	98.2	97.2	96.3	95.4	94.5	93.6	92.7	91.8	90.9
22	100.0	99.1	98.2	97.3	96.4	95.5	94.6	93.8	92.9	92.0	91.1
23	100.0	99.1	98.2	97.4	96.5	95.6	94.8	93.9	93.1	92.2	91.4
24	100.0	99.1	98.3	97.4	96.6	95.7	94.9	94.1	93.2	92.4	91.6
25	100.0	99.2	98.3	97.5	96.7	95.8	95.0	94.2	93.4	92.6	91.8
26	100.0	99.2	98.4	97.6	96.7	95.9	95.1	94.3	93.5	92.7	91.9
27	100.0	99.2	98.4	97.6	96.8	96.0	95.2	94.4	93.7	92.9	92.1
28	100.0	99.2	98.4	97.7	96.9	96.1	95.3	94.6	93.8	93.0	92.3
29	100.0	99.2	98.5	97.7	96.9	96.2	95.4	94.7	93.9	93.2	92.4
30	100.0	99.2	98.5	97.7	97.0	96.3	95.5	94.8	94.0	93.3	92.6
31	100.0	99.3	98.5	97.8	97.1	96.3	95.6	94.9	94.2	93.4	92.7
32	100.0	99.3	98.6	97.8	97.1	96.4	95.7	95.0	94.3	93.6	92.9
33	100.0	99.3	98.6	97.9	97.2	96.5	95.8	95.1	94.4	93.7	93.0
34	100.0	99.3	98.6	97.9	97.2	96.5	95.8	95.2	94.5	93.8	93.1
35	100.0	99.3	98.6	97.9	97.3	96.6	95.9	95.2	94.6	93.9	93.2
36	100.0	99.3	98.6	98.0	97.3	96.6	96.0	95.3	94.7	94.0	93.3
37	100.0	99.3	98.7	98.0	97.3	96.7	96.0	95.4	94.7	94.1	93.4
38	100.0	99.3	98.7	98.0	97.4	96.7	96.1	95.5	94.8	94.2	93.6
39	100.0	99.4	98.7	98.1	97.4	96.8	96.2	95.5	94.9	94.3	93.6
40	100.0	99.4	98.7	98.1	97.5	96.8	96.2	95.6	95.0	94.4	93.7
41	100.0	99.4	98.7	98.1	97.5	96.9	96.3	95.7	95.0	94.4	93.8
42	100.0	99.4	98.8	98.2	97.5	96.9	96.3	95.7	95.1	94.5	93.9
43	100.0	99.4	98.8	98.2	97.6	97.0	96.4	95.8	95.2	94.6	94.0
44	100.0	99.4	98.8	98.2	97.6	97.0	96.4	95.8	95.3	94.7	94.1
45	100.0	99.4	98.8	98.2	97.6	97.1	96.5	95.9	95.3	94.7	94.2
46	100.0	99.4	98.8	98.2	97.7	97.1	96.5	95.9	95.4	94.8	94.2
47	100.0	99.4	98.8	98.3	97.7	97.1	96.6	96.0	95.4	94.9	94.3
48	100.0	99.4	98.9	98.3	97.7	97.2	96.6	96.0	95.5	94.9	94.4
49	100.0	99.4	98.9	98.3	97.8	97.2	96.6	96.1	95.5	95.0	94.5
50	100.0	99.4	98.9	98.3	97.8	97.2	96.7	96.1	95.6	95.1	94.5
51	100.0	99.4	98.9	98.4	97.8	97.3	96.7	96.2	95.6	95.1	94.6
52	100.0	99.5	98.9	98.4	97.8	97.3	96.8	96.2	95.7	95.2	94.6
53	100.0	99.5	98.9	98.4	97.9	97.3	96.8	96.3	95.7	95.2	94.7
54	100.0	99.5	98.9	98.4	97.9	97.4	96.8	96.3	95.8	95.3	94.8
55	100.0	99.5	98.9	98.4	97.9	97.4	96.9	96.4	95.8	95.3	94.8
56	100.0	99.5	99.0	98.4	97.9	97.4	96.9	96.4	95.9	95.4	94.9
57	100.0	99.5	99.0	98.5	97.9	97.4	96.9	96.4	95.9	95.4	94.9

表 4a₁（续）

$t-t_w$ / t	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0
58	100.0	99.5	99.0	98.5	98.0	97.5	97.0	96.5	96.0	95.5	95.0
59	100.0	99.5	99.0	98.5	98.0	97.5	97.0	96.5	96.0	95.5	95.0
60	100.0	99.5	99.0	98.5	98.0	97.5	97.0	96.5	96.0	95.6	95.1
61	100.0	99.5	99.0	98.5	98.0	97.5	97.1	96.6	96.1	95.6	95.1
62	100.0	99.5	99.0	98.5	98.0	97.6	97.1	96.6	96.1	95.6	95.2
63	100.0	99.5	99.0	98.5	98.1	97.6	97.1	96.6	96.2	95.7	95.2
64	100.0	99.5	99.0	98.6	98.1	97.6	97.1	96.7	96.2	95.7	95.3
65	100.0	99.5	99.0	98.6	98.1	97.6	97.2	96.7	96.2	95.8	95.3
66	100.0	99.5	99.1	98.6	98.1	97.7	97.2	96.7	96.3	95.8	95.3
67	100.0	99.5	99.1	98.6	98.1	97.7	97.2	96.8	96.3	95.8	95.4
68	100.0	99.5	99.1	98.6	98.2	97.7	97.2	96.8	96.3	95.9	95.4
69	100.0	99.5	99.1	98.6	98.2	97.7	97.3	96.8	96.4	95.9	95.5
70	100.0	99.5	99.1	98.6	98.2	97.7	97.3	96.8	96.4	95.9	95.5
71	100.0	99.5	99.1	98.6	98.2	97.8	97.3	96.9	96.4	96.0	95.5
72	100.0	99.6	99.1	98.7	98.2	97.8	97.3	96.9	96.5	96.0	95.6
73	100.0	99.6	99.1	98.7	98.2	97.8	97.4	96.9	96.5	96.0	95.6
74	100.0	99.6	99.1	98.7	98.2	97.8	97.4	96.9	96.5	96.1	95.7
75	100.0	99.6	99.1	98.7	98.3	97.8	97.4	97.0	96.5	96.1	95.7
76	100.0	99.6	99.1	98.7	98.3	97.8	97.4	97.0	96.6	96.1	95.7
77	100.0	99.6	99.1	98.7	98.3	97.9	97.4	97.0	96.6	96.2	95.8
78	100.0	99.6	99.1	98.7	98.3	97.9	97.5	97.0	96.6	96.2	95.8
79	100.0	99.6	99.2	98.7	98.3	97.9	97.5	97.1	96.6	96.2	95.8
80	100.0	99.6	99.2	98.7	98.3	97.9	97.5	97.1	96.7	96.3	95.9
81	100.0	99.6	99.2	98.8	98.3	97.9	97.5	97.1	96.7	96.3	95.9
82	100.0	99.6	99.2	98.8	98.4	97.9	97.5	97.1	96.7	96.3	95.9
83	100.0	99.6	99.2	98.8	98.4	98.0	97.6	97.2	96.7	96.3	95.9
84	100.0	99.6	99.2	98.8	98.4	98.0	97.6	97.2	96.8	96.4	96.0
85	100.0	99.6	99.2	98.8	98.4	98.0	97.6	97.2	96.8	96.4	96.0
86	100.0	99.6	99.2	98.8	98.4	98.0	97.6	97.2	96.8	96.4	96.0
87	100.0	99.6	99.2	98.8	98.4	98.0	97.6	97.2	96.8	96.5	96.1
88	100.0	99.6	99.2	98.8	98.4	98.0	97.6	97.3	96.9	96.5	96.1
89	100.0	99.6	99.2	98.8	98.4	98.0	97.7	97.3	96.9	96.5	96.1
90	100.0	99.6	99.2	98.8	98.4	98.1	97.7	97.3	96.9	96.5	96.2
91	100.0	99.6	99.2	98.8	98.5	98.1	97.7	97.3	96.9	96.6	96.2
92	100.0	99.6	99.2	98.8	98.5	98.1	97.7	97.3	97.0	96.6	96.2
93	100.0	99.6	99.2	98.9	98.5	98.1	97.7	97.4	97.0	96.6	96.2
94	100.0	99.6	99.2	98.9	98.5	98.1	97.7	97.4	97.0	96.6	96.3
95	100.0	99.6	99.2	98.9	98.5	98.1	97.8	97.4	97.0	96.6	96.3
96	100.0	99.6	99.3	98.9	98.5	98.1	97.8	97.4	97.0	96.7	96.3
97	100.0	99.6	99.3	98.9	98.5	98.2	97.8	97.4	97.1	96.7	96.3
98	100.0	99.6	99.3	98.9	98.5	98.2	97.8	97.4	97.1	96.7	96.4
99	100.0	99.6	99.3	98.9	98.5	98.2	97.8	97.5	97.1	96.7	96.4
100	100.0	99.6	99.3	98.9	98.6	98.2	97.8	97.5	97.1	96.8	96.4

表 4a₁（续）

t ＼ $t-t_w$	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0
15	88.2	87.1	86.0	85.0	84.0	82.9	81.9	80.8	79.8	78.8
16	88.5	87.5	86.5	85.5	84.4	83.4	82.4	81.4	80.4	79.4
17	88.9	87.9	86.9	85.9	84.9	83.9	82.9	82.0	81.0	80.0
18	89.2	88.2	87.2	86.3	85.3	84.4	83.4	82.5	81.6	80.6
19	89.5	88.5	87.6	86.7	85.7	84.8	83.9	83.0	82.1	81.2
20	89.8	88.8	87.9	87.0	86.1	85.2	84.3	83.4	82.5	81.7
21	90.0	89.1	88.2	87.4	86.5	85.6	84.7	83.9	83.0	82.1
22	90.3	89.4	88.5	87.7	86.8	86.0	85.1	84.3	83.4	82.6
23	90.5	89.7	88.8	88.0	87.2	86.3	85.5	84.7	83.8	83.0
24	90.7	89.9	89.1	88.3	87.5	86.6	85.8	85.0	84.2	83.4
25	90.9	90.1	89.3	88.5	87.7	87.0	86.2	85.4	84.6	83.8
26	91.1	90.4	89.6	88.8	88.0	87.2	86.5	85.7	84.9	84.2
27	91.3	90.6	89.8	89.0	88.3	87.5	86.8	86.0	85.3	84.5
28	91.5	90.8	90.0	89.3	88.5	87.8	87.0	86.3	85.6	84.8
29	91.7	91.0	90.2	89.5	88.8	88.0	87.3	86.6	85.9	85.1
30	91.9	91.1	90.4	89.7	89.0	88.3	87.6	86.8	86.1	85.4
31	92.0	91.3	90.6	89.9	89.2	88.5	87.8	87.1	86.4	85.7
32	92.2	91.5	90.8	90.1	89.4	88.7	88.0	87.3	86.7	86.0
33	92.3	91.6	90.9	90.3	89.6	88.9	88.2	87.6	86.9	86.2
34	92.4	91.8	91.1	90.4	89.8	89.1	88.4	87.8	87.1	86.5
35	92.6	91.9	91.2	90.6	89.9	89.3	88.6	88.0	87.4	86.7
36	92.7	92.0	91.4	90.7	90.1	89.5	88.8	88.2	87.6	86.9
37	92.8	92.2	91.5	90.9	90.3	89.6	89.0	88.4	87.8	87.1
38	92.9	92.3	91.7	91.0	90.4	89.8	89.2	88.6	88.0	87.3
39	93.0	92.4	91.8	91.2	90.6	90.0	89.3	88.7	88.1	87.5
40	93.1	92.5	91.9	91.3	90.7	90.1	89.5	88.9	88.3	87.7
41	93.2	92.6	92.0	91.4	90.8	90.2	89.7	89.1	88.5	87.9
42	93.3	92.7	92.1	91.6	91.0	90.4	89.8	89.2	88.6	88.1
43	93.4	92.8	92.3	91.7	91.1	90.5	89.9	89.4	88.8	88.2
44	93.5	92.9	92.4	91.8	91.2	90.6	90.1	89.5	89.0	88.4
45	93.6	93.0	92.5	91.9	91.3	90.8	90.2	89.7	89.1	88.6
46	93.7	93.1	92.6	92.0	91.4	90.9	90.3	89.8	89.2	88.7
47	93.8	93.2	92.6	92.1	91.6	91.0	90.5	89.9	89.4	88.8
48	93.8	93.3	92.7	92.2	91.7	91.1	90.6	90.0	89.5	89.0
49	93.9	93.4	92.8	92.3	91.8	91.2	90.7	90.2	89.6	89.1
50	94.0	93.4	92.9	92.4	91.9	91.3	90.8	90.3	89.8	89.2
51	94.0	93.5	93.0	92.5	91.9	91.4	90.9	90.4	89.9	89.4
52	94.1	93.6	93.1	92.6	92.0	91.5	91.0	90.5	90.0	89.5
53	94.2	93.7	93.2	92.6	92.1	91.6	91.1	90.6	90.1	89.6
54	94.2	93.7	93.2	92.7	92.2	91.7	91.2	90.7	90.2	89.7
55	94.3	93.8	93.3	92.8	92.3	91.8	91.3	90.8	90.3	89.8
56	94.4	93.9	93.4	92.9	92.4	91.9	91.4	90.9	90.4	89.9
57	94.4	93.9	93.4	92.9	92.5	92.0	91.5	91.0	90.5	90.0

表 4a₁（续）

$t-t_w$ / t	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0
58	94.5	94.0	93.5	93.0	92.5	92.0	91.6	91.1	90.6	90.1
59	94.5	94.1	93.6	93.1	92.6	92.1	91.7	91.2	90.7	90.2
60	94.6	94.1	93.6	93.2	92.7	92.2	91.7	91.3	90.8	90.3
61	94.6	94.2	93.7	93.2	92.8	92.3	91.8	91.3	90.9	90.4
62	94.7	94.2	93.8	93.3	92.8	92.4	91.9	91.4	91.0	90.5
63	94.7	94.3	93.8	93.3	92.9	92.4	92.0	91.5	91.1	90.6
64	94.8	94.3	93.9	93.4	93.0	92.5	92.0	91.6	91.1	90.7
65	94.8	94.4	93.9	93.5	93.0	92.6	92.1	91.7	91.2	90.8
66	94.9	94.4	94.0	93.5	93.1	92.6	92.2	91.7	91.3	90.9
67	94.9	94.5	94.0	93.6	93.1	92.7	92.3	91.8	91.4	90.9
68	95.0	94.5	94.1	93.6	93.2	92.8	92.3	91.9	91.4	91.0
69	95.0	94.6	94.1	93.7	93.3	92.8	92.4	92.0	91.5	91.1
70	95.1	94.6	94.2	93.8	93.3	92.9	92.5	92.0	91.6	91.2
71	95.1	94.7	94.2	93.8	93.4	92.9	92.5	92.1	91.7	91.2
72	95.1	94.7	94.3	93.9	93.4	93.0	92.6	92.2	91.7	91.3
73	95.2	94.8	94.3	93.9	93.5	93.1	92.6	92.2	91.8	91.4
74	95.2	94.8	94.4	94.0	93.5	93.1	92.7	92.3	91.9	91.5
75	95.3	94.8	94.4	94.0	93.6	93.2	92.8	92.3	91.9	91.5
76	95.3	94.9	94.5	94.1	93.6	93.2	92.8	92.4	92.0	91.6
77	95.3	94.9	94.5	94.1	93.7	93.3	92.9	92.5	92.1	91.7
78	95.4	95.0	94.6	94.1	93.7	93.3	92.9	92.5	92.1	91.7
79	95.4	95.0	94.6	94.2	93.8	93.4	93.0	92.6	92.2	91.8
80	95.4	95.0	94.6	94.2	93.8	93.4	93.0	92.6	92.2	91.8
81	95.5	95.1	94.7	94.3	93.9	93.5	93.1	92.7	92.3	91.9
82	95.5	95.1	94.7	94.3	93.9	93.5	93.1	92.7	92.4	92.0
83	95.6	95.2	94.8	94.4	94.0	93.6	93.2	92.8	92.4	92.0
84	95.6	95.2	94.8	94.4	94.0	93.6	93.2	92.9	92.5	92.1
85	95.6	95.2	94.8	94.4	94.1	93.7	93.3	92.9	92.5	92.1
86	95.6	95.3	94.9	94.5	94.1	93.7	93.3	93.0	92.6	92.2
87	95.7	95.3	94.9	94.5	94.1	93.8	93.4	93.0	92.6	92.3
88	95.7	95.3	94.9	94.6	94.2	93.8	93.4	93.1	92.7	92.3
89	95.7	95.4	95.0	94.6	94.2	93.9	93.5	93.1	92.7	92.4
90	95.8	95.4	95.0	94.6	94.3	93.9	93.5	93.2	92.8	92.4
91	95.8	95.4	95.1	94.7	94.3	93.9	93.6	93.2	92.8	92.5
92	95.8	95.5	95.1	94.7	94.4	94.0	93.6	93.3	92.9	92.5
93	95.9	95.5	95.1	94.8	94.4	94.0	93.7	93.3	92.9	92.6
94	95.9	95.5	95.2	94.8	94.4	94.1	93.7	93.3	93.0	92.6
95	95.9	95.6	95.2	94.8	94.5	94.1	93.7	93.4	93.0	92.7
96	95.9	95.6	95.2	94.9	94.5	94.1	93.8	93.4	93.1	92.7
97	96.0	95.6	95.3	94.9	94.5	94.2	93.8	93.5	93.1	92.8
98	96.0	95.6	95.3	94.9	94.6	94.2	93.9	93.5	93.2	92.8
99	96.0	95.7	95.3	95.0	94.6	94.3	93.9	93.6	93.2	92.9
100	96.1	95.7	95.3	95.0	94.6	94.3	94.0	93.6	93.3	92.9

表 4a₁（续）

t ＼ $t-t_w$	2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9	3.0
15	77.7	76.7	75.7	74.7	73.7	72.7	71.7	70.7	69.7	68.7
16	78.4	77.4	76.5	75.5	74.5	73.5	72.5	71.6	70.6	69.6
17	79.1	78.1	77.2	76.2	75.3	74.3	73.4	72.4	71.5	70.5
18	79.7	78.7	77.8	76.9	76.0	75.0	74.1	73.2	72.3	71.4
19	80.2	79.3	78.4	77.5	76.6	75.7	74.9	74.0	73.1	72.2
20	80.8	79.9	79.0	78.1	77.3	76.4	75.5	74.7	73.8	73.0
21	81.3	80.4	79.6	78.7	77.9	77.0	76.2	75.3	74.5	73.7
22	81.8	80.9	80.1	79.3	78.4	77.6	76.8	76.0	75.2	74.3
23	82.2	81.4	80.6	79.8	79.0	78.2	77.4	76.6	75.8	75.0
24	82.6	81.8	81.0	80.3	79.5	78.7	77.9	77.1	76.4	75.6
25	83.0	82.3	81.5	80.7	79.9	79.2	78.4	77.7	76.9	76.1
26	83.4	82.7	81.9	81.1	80.4	79.6	78.9	78.2	77.4	76.7
27	83.8	83.0	82.3	81.6	80.8	80.1	79.4	78.6	77.9	77.2
28	84.1	83.4	82.7	81.9	81.2	80.5	79.8	79.1	78.4	77.7
29	84.4	83.7	83.0	82.3	81.6	80.9	80.2	79.5	78.8	78.1
30	84.7	84.0	83.4	82.7	82.0	81.3	80.6	79.9	79.2	78.6
31	85.0	84.4	83.7	83.0	82.3	81.6	81.0	80.3	79.6	79.0
32	85.3	84.6	84.0	83.3	82.6	82.0	81.3	80.7	80.0	79.4
33	85.6	84.9	84.3	83.6	83.0	82.3	81.7	81.0	80.4	79.7
34	85.8	85.2	84.5	83.9	83.3	82.6	82.0	81.4	80.7	80.1
35	86.1	85.4	84.8	84.2	83.5	82.9	82.3	81.7	81.1	80.4
36	86.3	85.7	85.1	84.4	83.8	83.2	82.6	82.0	81.4	80.8
37	86.5	85.9	85.3	84.7	84.1	83.5	82.9	82.3	81.7	81.1
38	86.7	86.1	85.5	84.9	84.3	83.7	83.1	82.6	82.0	81.4
39	86.9	86.3	85.8	85.2	84.6	84.0	83.4	82.8	82.2	81.7
40	87.1	86.5	86.0	85.4	84.8	84.2	83.6	83.1	82.5	81.9
41	87.3	86.7	86.2	85.6	85.0	84.5	83.9	83.3	82.8	82.2
42	87.5	86.9	86.4	85.8	85.2	84.7	84.1	83.6	83.0	82.4
43	87.7	87.1	86.6	86.0	85.4	84.9	84.3	83.8	83.2	82.7
44	87.8	87.3	86.7	86.2	85.6	85.1	84.5	84.0	83.5	82.9
45	88.0	87.5	86.9	86.4	85.8	85.3	84.7	84.2	83.7	83.1
46	88.2	87.6	87.1	86.5	86.0	85.5	84.9	84.4	83.9	83.4
47	88.3	87.8	87.2	86.7	86.2	85.7	85.1	84.6	84.1	83.6
48	88.4	87.9	87.4	86.9	86.4	85.8	85.3	84.8	84.3	83.8
49	88.6	88.1	87.5	87.0	86.5	86.0	85.5	85.0	84.5	84.0
50	88.7	88.2	87.7	87.2	86.7	86.2	85.7	85.2	84.7	84.2
51	88.9	88.3	87.8	87.3	86.8	86.3	85.8	85.3	84.8	84.3
52	89.0	88.5	88.0	87.5	87.0	86.5	86.0	85.5	85.0	84.5
53	89.1	88.6	88.1	87.6	87.1	86.6	86.1	85.7	85.2	84.7
54	89.2	88.7	88.2	87.7	87.3	86.8	86.3	85.8	85.3	84.9
55	89.3	88.8	88.4	87.9	87.4	86.9	86.4	86.0	85.5	85.0
56	89.4	89.0	88.5	88.0	87.5	87.1	86.6	86.1	85.6	85.2
57	89.6	89.1	88.6	88.1	87.7	87.2	86.7	86.2	85.8	85.3

表 4a₁（续）

t \ t−t_w	2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9	3.0
58	89.7	89.2	88.7	88.2	87.8	87.3	86.8	86.4	85.9	85.5
59	89.8	89.3	88.8	88.4	87.9	87.4	87.0	86.5	86.1	85.6
60	89.9	89.4	88.9	88.5	88.0	87.6	87.1	86.7	86.2	85.7
61	90.0	89.5	89.0	88.6	88.1	87.7	87.2	86.8	86.3	85.9
62	90.1	89.6	89.1	88.7	88.2	87.8	87.3	86.9	86.5	86.0
63	90.1	89.7	89.2	88.8	88.4	87.9	87.5	87.0	86.6	86.1
64	90.2	89.8	89.3	88.9	88.5	88.0	87.6	87.1	86.7	86.3
65	90.3	89.9	89.4	89.0	88.6	88.1	87.7	87.3	86.8	86.4
66	90.4	90.0	89.5	89.1	88.7	88.2	87.8	87.4	86.9	86.5
67	90.5	90.1	89.6	89.2	88.8	88.3	87.9	87.5	87.1	86.6
68	90.6	90.1	89.7	89.3	88.9	88.4	88.0	87.6	87.2	86.8
69	90.7	90.2	89.8	89.4	89.0	88.5	88.1	87.7	87.3	86.9
70	90.7	90.3	89.9	89.5	89.1	88.6	88.2	87.8	87.4	87.0
71	90.8	90.4	90.0	89.6	89.1	88.7	88.3	87.9	87.5	87.1
72	90.9	90.5	90.1	89.6	89.2	88.8	88.4	88.0	87.6	87.2
73	91.0	90.6	90.1	89.7	89.3	88.9	88.5	88.1	87.7	87.3
74	91.0	90.6	90.2	89.8	89.4	89.0	88.6	88.2	87.8	87.4
75	91.1	90.7	90.3	89.9	89.5	89.1	88.7	88.3	87.9	87.5
76	91.2	90.8	90.4	90.0	89.6	89.2	88.8	88.4	88.0	87.6
77	91.3	90.9	90.5	90.1	89.7	89.3	88.9	88.5	88.1	87.7
78	91.3	90.9	90.5	90.1	89.7	89.3	88.9	88.6	88.2	87.8
79	91.4	91.0	90.6	90.2	89.8	89.4	89.0	88.6	88.3	87.9
80	91.5	91.1	90.7	90.3	89.9	89.5	89.1	88.7	88.3	88.0
81	91.5	91.1	90.7	90.4	90.0	89.6	89.2	88.8	88.4	88.1
82	91.6	91.2	90.8	90.4	90.0	89.7	89.3	88.9	88.5	88.1
83	91.6	91.3	90.9	90.5	90.1	89.7	89.4	89.0	88.6	88.2
84	91.7	91.3	90.9	90.6	90.2	89.8	89.4	89.1	88.7	88.3
85	91.8	91.4	91.0	90.6	90.3	89.9	89.5	89.1	88.8	88.4
86	91.8	91.4	91.1	90.7	90.3	90.0	89.6	89.2	88.9	88.5
87	91.9	91.5	91.1	90.8	90.4	90.0	89.7	89.3	88.9	88.6
88	91.9	91.6	91.2	90.8	90.5	90.1	89.7	89.4	89.0	88.6
89	92.0	91.6	91.3	90.9	90.5	90.2	89.8	89.4	89.1	88.7
90	92.1	91.7	91.3	91.0	90.6	90.2	89.9	89.5	89.2	88.8
91	92.1	91.7	91.4	91.0	90.7	90.3	89.9	89.6	89.2	88.9
92	92.2	91.8	91.4	91.1	90.7	90.4	90.0	89.7	89.3	89.0
93	92.2	91.9	91.5	91.1	90.8	90.4	90.1	89.7	89.4	89.0
94	92.3	91.9	91.6	91.2	90.9	90.5	90.1	89.8	89.5	89.1
95	92.3	92.0	91.6	91.3	90.9	90.6	90.2	89.9	89.5	89.2
96	92.4	92.0	91.7	91.3	91.0	90.6	90.3	89.9	89.6	89.2
97	92.4	92.1	91.7	91.4	91.0	90.7	90.3	90.0	89.7	89.3
98	92.5	92.1	91.8	91.4	91.1	90.8	90.4	90.1	89.7	89.4
99	92.5	92.2	91.8	91.5	91.2	90.8	90.5	90.1	89.8	89.5
100	92.6	92.2	91.9	91.5	91.2	90.9	90.5	90.2	89.9	89.5

表 4a₁（续）

$t-t_w$ / t	3.1	3.2	3.3	3.4	3.5	3.6	3.7	3.8	3.9	4.0
15	67.7	66.7	65.7	64.7	63.7	62.8	61.8	60.8	59.8	58.9
16	68.7	67.7	66.8	65.8	64.9	63.9	63.0	62.0	61.1	60.2
17	69.6	68.7	67.8	66.8	65.9	65.0	64.1	63.2	62.3	61.4
18	70.5	69.6	68.7	67.8	66.9	66.0	65.1	64.2	63.4	62.5
19	71.3	70.4	69.6	68.7	67.8	67.0	66.1	65.3	64.4	63.6
20	72.1	71.3	70.4	69.6	68.7	67.9	67.0	66.2	65.4	64.6
21	72.8	72.0	71.2	70.4	69.5	68.7	67.9	67.1	66.3	65.5
22	73.5	72.7	71.9	71.1	70.3	69.5	68.7	68.0	67.2	66.4
23	74.2	73.4	72.6	71.8	71.1	70.3	69.5	68.7	68.0	67.2
24	74.8	74.0	73.3	72.5	71.8	71.0	70.3	69.5	68.8	68.0
25	75.4	74.6	73.9	73.2	72.4	71.7	70.9	70.2	69.5	68.8
26	75.9	75.2	74.5	73.8	73.0	72.3	71.6	70.9	70.2	69.5
27	76.5	75.8	75.0	74.3	73.6	72.9	72.2	71.5	70.8	70.1
28	77.0	76.3	75.6	74.9	74.2	73.5	72.8	72.1	71.4	70.8
29	77.4	76.8	76.1	75.4	74.7	74.0	73.4	72.7	72.0	71.4
30	77.9	77.2	76.5	75.9	75.2	74.6	73.9	73.2	72.6	71.9
31	78.3	77.7	77.0	76.3	75.7	75.0	74.4	73.8	73.1	72.5
32	78.7	78.1	77.4	76.8	76.2	75.5	74.9	74.3	73.6	73.0
33	79.1	78.5	77.8	77.2	76.6	76.0	75.3	74.7	74.1	73.5
34	79.5	78.9	78.2	77.6	77.0	76.4	75.8	75.2	74.6	74.0
35	79.8	79.2	78.6	78.0	77.4	76.8	76.2	75.6	75.0	74.4
36	80.2	79.6	79.0	78.4	77.8	77.2	76.6	76.0	75.4	74.8
37	80.5	79.9	79.3	78.7	78.1	77.5	77.0	76.4	75.8	75.2
38	80.8	80.2	79.6	79.0	78.5	77.9	77.3	76.8	76.2	75.6
39	81.1	80.5	79.9	79.4	78.8	78.2	77.7	77.1	76.6	76.0
40	81.4	80.8	80.2	79.7	79.1	78.6	78.0	77.5	76.9	76.4
41	81.6	81.1	80.5	80.0	79.4	78.9	78.3	77.8	77.2	76.7
42	81.9	81.3	80.8	80.3	79.7	79.2	78.6	78.1	77.6	77.0
43	82.1	81.6	81.1	80.5	80.0	79.5	78.9	78.4	77.9	77.3
44	82.4	81.9	81.3	80.8	80.3	79.7	79.2	78.7	78.2	77.7
45	82.6	82.1	81.6	81.0	80.5	80.0	79.5	79.0	78.5	77.9
46	82.8	82.3	81.8	81.3	80.8	80.3	79.7	79.2	78.7	78.2
47	83.1	82.5	82.0	81.5	81.0	80.5	80.0	79.5	79.0	78.5
48	83.3	82.8	82.3	81.7	81.2	80.7	80.2	79.8	79.3	78.8
49	83.5	83.0	82.5	82.0	81.5	81.0	80.5	80.0	79.5	79.0
50	83.7	83.2	82.7	82.2	81.7	81.2	80.7	80.2	79.7	79.3
51	83.8	83.4	82.9	82.4	81.9	81.4	80.9	80.5	80.0.	79.5
52	84.0	83.5	83.1	82.6	82.1	81.6	81.1	80.7	80.2	79.7
53	84.2	83.7	83.2	82.8	82.3	81.8	81.4	80.9	80.4	80.0
54	84.4	83.9	83.4	83.0	82.5	82.0	81.6	81.1	80.6	80.2
55	84.5	84.1	83.6	83.1	82.7	82.2	81.7	81.3	80.8	80.4
56	84.7	84.2	83.8	83.3	82.9	82.4	81.9	81.5	81.0	80.6
57	84.9	84.4	83.9	83.5	83.0	82.6	82.1	81.7	81.2	80.8

表 4a₁（续）

t ＼ $t-t_w$	3.1	3.2	3.3	3.4	3.5	3.6	3.7	3.8	3.9	4.0
58	85.0	84.6	84.1	83.6	83.2	82.7	82.3	81.9	81.4	81.0
59	85.2	84.7	84.3	83.8	83.4	82.9	82.5	82.0	81.6	81.2
60	85.3	84.9	84.4	84.0	83.5	83.1	82.6	82.2	81.8	81.3
61	85.4	85.0	84.6	84.1	83.7	83.2	82.8	82.4	81.9	81.5
62	85.6	85.1	84.7	84.3	83.8	83.4	83.0	82.5	82.1	81.7
63	85.7	85.3	84.8	84.4	84.0	83.6	83.1	82.7	82.3	81.9
64	85.8	85.4	85.0	84.6	84.1	83.7	83.3	82.9	82.4	82.0
65	86.0	85.5	85.1	84.7	84.3	83.8	83.4	83.0	82.6	82.2
66	86.1	85.7	85.2	84.8	84.4	84.0	83.6	83.2	82.7	82.3
67	86.2	85.8	85.4	85.0	84.5	84.1	83.7	83.3	82.9	82.5
68	86.3	85.9	85.5	85.1	84.7	84.3	83.9	83.4	83.0	82.6
69	86.4	86.0	85.6	85.2	84.8	84.4	84.0	83.6	83.2	82.8
70	86.6	86.2	85.7	85.3	84.9	84.5	84.1	83.7	83.3	82.9
71	86.7	86.3	85.9	85.5	85.1	84.7	84.3	83.9	83.5	83.1
72	86.8	86.4	86.0	85.6	85.2	84.8	84.4	84.0	83.6	83.2
73	86.9	86.5	86.1	85.7	85.3	84.9	84.5	84.1	83.7	83.3
74	87.0	86.6	86.2	85.8	85.4	85.0	84.6	84.2	83.9	83.5
75	87.1	86.7	86.3	85.9	85.5	85.1	84.8	84.4	84.0	83.6
76	87.2	86.8	86.4	86.0	85.6	85.3	84.9	84.5	84.1	83.7
77	87.3	86.9	86.5	86.1	85.8	85.4	85.0	84.6	84.2	83.9
78	87.4	87.0	86.6	86.2	85.9	85.5	85.1	84.7	84.4	84.0
79	87.5	87.1	86.7	86.3	86.0	85.6	85.2	84.8	84.5	84.1
80	87.6	87.2	86.8	86.5	86.1	85.7	85.3	85.0	84.6	84.2
81	87.7	87.3	86.9	86.6	86.2	85.8	85.4	85.1	84.7	84.3
82	87.8	87.4	87.0	86.6	86.3	85.9	85.5	85.2	84.8	84.4
83	87.9	87.5	87.1	86.7	86.4	86.0	85.6	85.3	84.9	84.6
84	87.9	87.6	87.2	86.8	86.5	86.1	85.7	85.4	85.0	84.7
85	88.0	87.7	87.3	86.9	86.6	86.2	85.9	85.5	85.1	84.8
86	88.1	87.8	87.4	87.0	86.7	86.3	86.0	85.6	85.2	84.9
87	88.2	87.8	87.5	87.1	86.8	86.4	86.1	85.7	85.3	85.0
88	88.3	87.9	87.6	87.2	86.9	86.5	86.1	85.8	85.4	85.1
89	88.4	88.0	87.7	87.3	86.9	86.6	86.2	85.9	85.5	85.2
90	88.4	88.1	87.7	87.4	87.0	86.7	86.3	86.0	85.6	85.3
91	88.5	88.2	87.8	87.5	87.1	86.8	86.4	86.1	85.7	85.4
92	88.6	88.3	87.9	87.6	87.2	86.9	86.5	86.2	85.8	85.5
93	88.7	88.3	88.0	87.6	87.3	87.0	86.6	86.3	85.9	85.6
94	88.8	88.4	88.1	87.7	87.4	87.0	86.7	86.4	86.0	85.7
95	88.8	88.5	88.1	87.8	87.5	87.1	86.8	86.5	86.1	85.8
96	88.9	88.6	88.2	87.9	87.5	87.2	86.9	86.5	86.2	85.9
97	89.0	88.6	88.3	88.0	87.6	87.3	87.0	86.6	86.3	86.0
98	89.1	88.7	88.4	88.0	87.7	87.4	87.0	86.7	86.4	86.1
99	89.1	88.8	88.5	88.1	87.8	87.5	87.1	86.8	86.5	86.1
100	89.2	88.9	88.5	88.2	87.9	87.5	87.2	86.9	86.6	86.2

表 4a₁（续）

$t-t_w$ / t	4.1	4.2	4.3	4.4	4.5	4.6	4.7	4.8	4.9	5.0
15	57.9	56.9	56.0	55.0	54.1	53.1	52.2	51.3	50.3	49.4
16	59.2	58.3	57.4	56.4	55.5	54.6	53.7	52.8	51.9	51.0
17	60.5	59.6	58.7	57.8	56.9	56.0	55.1	54.2	53.3	52.5
18	61.6	60.7	59.9	59.0	58.1	57.3	56.4	55.6	54.7	53.9
19	62.7	61.9	61.0	60.2	59.3	58.5	57.7	56.8	56.0	55.2
20	63.7	62.9	62.1	61.3	60.5	59.6	58.8	58.0	57.2	56.4
21	64.7	63.9	63.1	62.3	61.5	60.7	59.9	59.1	58.4	57.6
22	65.6	64.8	64.0	63.3	62.5	61.7	61.0	60.2	59.4	58.7
23	66.5	65.7	64.9	64.2	63.4	62.7	61.9	61.2	60.5	59.7
24	67.3	66.5	65.8	65.1	64.3	63.6	62.9	62.1	61.4	60.7
25	68.0	67.3	66.6	65.9	65.2	64.4	63.7	63.0	62.3	61.6
26	68.8	68.0	67.3	66.6	65.9	65.3	64.6	63.9	63.2	62.5
27	69.4	68.7	68.1	67.4	66.7	66.0	65.3	64.7	64.0	63.3
28	70.1	69.4	68.7	68.1	67.4	66.7	66.1	65.4	64.8	64.1
29	70.7	70.0	69.4	68.7	68.1	67.4	66.8	66.1	65.5	64.8
30	71.3	70.6	70.0	69.4	68.7	68.1	67.4	66.8	66.2	65.6
31	71.8	71.2	70.6	69.9	69.3	68.7	68.1	67.5	66.8	66.2
32	72.4	71.7	71.1	70.5	69.9	69.3	68.7	68.1	67.5	66.9
33	72.9	72.3	71.7	71.1	70.4	69.8	69.2	68.7	68.1	67.5
34	73.4	72.8	72.2	71.6	71.0	70.4	69.8	69.2	68.6	68.0
35	73.8	73.2	72.6	72.1	71.5	70.9	70.3	69.7	69.2	68.6
36	74.2	73.7	73.1	72.5	71.9	71.4	70.8	70.2	69.7	69.1
37	74.7	74.1	73.5	73.0	72.4	71.8	71.3	70.7	70.2	69.6
38	75.1	74.5	73.9	73.4	72.8	72.3	71.7	71.2	70.6	70.1
39	75.4	74.9	74.3	73.8	73.3	72.7	72.2	71.6	71.1	70.6
40	75.8	75.3	74.7	74.2	73.7	73.1	72.6	72.1	71.5	71.0
41	76.2	75.6	75.1	74.6	74.0	73.5	73.0	72.5	71.9	71.4
42	76.5	76.0	75.4	74.9	74.4	73.9	73.4	72.8	72.3	71.8
43	76.8	76.3	75.8	75.3	74.8	74.2	73.7	73.2	72.7	72.2
44	77.1	76.6	76.1	75.6	75.1	74.6	74.1	73.6	73.1	72.6
45	77.4	76.9	76.4	75.9	75.4	74.9	74.4	73.9	73.4	72.9
46	77.7	77.2	76.7	76.2	75.7	75.2	74.8	74.3	73.8	73.3
47	78.0	77.5	77.0	76.5	76.0	75.6	75.1	74.6	74.1	73.6
48	78.3	77.8	77.3	76.8	76.3	75.9	75.4	74.9	74.4	73.9
49	78.5	78.1	77.6	77.1	76.6	76.1	75.7	75.2	74.7	74.3
50	78.8	78.3	77.8	77.4	76.9	76.4	75.9	75.5	75.0	74.6
51	79.0	78.6	78.1	77.6	77.2	76.7	76.2	75.8	75.3	74.8
52	79.3	78.8	78.3	77.9	77.4	76.9	76.5	76.0	75.6	75.1
53	79.5	79.0	78.6	78.1	77.7	77.2	76.7	76.3	75.8	75.4
54	79.7	79.3	78.8	78.3	77.9	77.4	77.0	76.5	76.1	75.7
55	79.9	79.5	79.0	78.6	78.1	77.7	77.2	76.8	76.4	75.9
56	80.1	79.7	79.2	78.8	78.4	77.9	77.5	77.0	76.6	76.2
57	80.3	79.9	79.4	79.0	78.6	78.1	77.7	77.3	76.8	76.4

表 4a₁（续）

$t-t_w$ t	4.1	4.2	4.3	4.4	4.5	4.6	4.7	4.8	4.9	5.0
58	80.5	80.1	79.7	79.2	78.8	78.4	77.9	77.5	77.1	76.6
59	80.7	80.3	79.9	79.4	79.0	78.6	78.1	77.7	77.3	76.9
60	80.9	80.5	80.0	79.6	79.2	78.8	78.3	77.9	77.5	77.1
61	81.1	80.7	80.2	79.8	79.4	79.0	78.5	78.1	77.7	77.3
62	81.3	80.8	80.4	80.0	79.6	79.2	78.7	78.3	77.9	77.5
63	81.4	81.0	80.6	80.2	79.8	79.4	78.9	78.5	78.1	77.7
64	81.6	81.2	80.8	80.4	79.9	79.5	79.1	78.7	78.3	77.9
65	81.8	81.4	80.9	80.5	80.1	79.7	79.3	78.9	78.5	78.1
66	81.9	81.5	81.1	80.7	80.3	79.9	79.5	79.1	78.7	78.3
67	82.1	81.7	81.3	80.9	80.5	80.1	79.7	79.3	78.9	78.5
68	82.2	81.8	81.4	81.0	80.6	80.2	79.8	79.5	79.1	78.7
69	82.4	82.0	81.6	81.2	80.8	80.4	80.0	79.6	79.2	78.8
70	82.5	82.1	81.7	81.3	81.0	80.6	80.2	79.8	79.4	79.0
71	82.7	82.3	81.9	81.5	81.1	80.7	80.3	80.0	79.6	79.2
72	82.8	82.4	82.0	81.7	81.3	80.9	80.5	80.1	79.7	79.4
73	83.0	82.6	82.2	81.8	81.4	81.0	80.7	80.3	79.9	79.5
74	83.1	82.7	82.3	81.9	81.6	81.2	80.8	80.4	80.1	79.7
75	83.2	82.8	82.5	82.1	81.7	81.3	81.0	80.6	80.2	79.8
76	83.3	83.0	82.6	82.2	81.8	81.5	81.1	80.7	80.4	80.0
77	83.5	83.1	82.7	82.4	82.0	81.6	81.2	80.9	80.5	80.1
78	83.6	83.2	82.9	82.5	82.1	81.8	81.4	81.0	80.7	80.3
79	83.7	83.4	83.0	82.6	82.3	81.9	81.5	81.2	80.8	80.4
80	83.8	83.5	83.1	82.7	82.4	82.0	81.7	81.3	80.9	80.6
81	84.0	83.6	83.2	82.9	82.5	82.2	81.8	81.4	81.1	80.7
82	84.1	83.7	83.4	83.0	82.6	82.3	81.9	81.6	81.2	80.9
83	84.2	83.8	83.5	83.1	82.8	82.4	82.1	81.7	81.4	81.0
84	84.3	84.0	83.6	83.2	82.9	82.5	82.2	81.8	81.5	81.1
85	84.4	84.1	83.7	83.4	83.0	82.7	82.3	82.0	81.6	81.3
86	84.5	84.2	83.8	83.5	83.1	82.8	82.4	82.1	81.7	81.4
87	84.6	84.3	83.9	83.6	83.2	82.9	82.6	82.2	81.9	81.5
88	84.7	84.4	84.1	83.7	83.4	83.0	82.7	82.3	82.0	81.7
89	84.8	84.5	84.2	83.8	83.5	83.1	82.8	82.5	82.1	81.8
90	85.0	84.6	84.3	83.9	83.6	83.2	82.9	82.6	82.2	81.9
91	85.1	84.7	84.4	84.0	83.7	83.4	83.0	82.7	82.4	82.0
92	85.2	84.8	84.5	84.1	83.8	83.5	83.1	82.8	82.5	82.1
93	85.3	84.9	84.6	84.2	83.9	83.6	83.2	82.9	82.6	82.3
94	85.4	85.0	84.7	84.4	84.0	83.7	83.4	83.0	82.7	82.4
95	85.4	85.1	84.8	84.5	84.1	83.8	83.5	83.1	82.8	82.5
96	85.5	85.2	84.9	84.6	84.2	83.9	83.6	83.2	82.9	82.6
97	85.6	85.3	85.0	84.7	84.3	84.0	83.7	83.4	83.0	82.7
98	85.7	85.4	85.1	84.8	84.4	84.1	83.8	83.5	83.1	82.8
99	85.8	85.5	85.2	84.9	84.5	84.2	83.9	83.6	83.3	82.9
100	85.9	85.6	85.3	84.9	84.6	84.3	84.0	83.7	83.4	83.0

表 4a₁（续）

$t-t_w$ t	5.2	5.4	5.6	5.8	6.0	6.2	6.4	6.6	6.8	7.0
15	47.5	45.7	43.8	42.0	40.2	38.4	36.6	34.8	33.0	31.2
16	49.2	47.4	45.6	43.8	42.1	40.3	38.6	36.8	35.1	33.4
17	50.7	49.0	47.3	45.5	43.8	42.1	40.5	38.8	37.1	35.5
18	52.2	50.5	48.8	47.2	45.5	43.9	42.2	40.6	39.0	37.4
19	53.5	51.9	50.3	48.7	47.1	45.5	43.9	42.3	40.8	39.2
20	54.8	53.2	51.7	50.1	48.6	47.0	45.5	44.0	42.4	40.9
21	56.0	54.5	53.0	51.4	49.9	48.4	47.0	45.5	44.0	42.5
22	57.2	55.7	54.2	52.7	51.2	49.8	48.3	46.9	45.5	44.1
23	58.3	56.8	55.3	53.9	52.5	51.1	49.6	48.2	46.9	45.5
24	59.3	57.8	56.4	55.0	53.6	52.3	50.9	49.5	48.2	46.8
25	60.2	58.8	57.5	56.1	54.7	53.4	52.0	50.7	49.4	48.1
26	61.1	59.8	58.4	57.1	55.8	54.5	53.2	51.9	50.6	49.3
27	62.0	60.7	59.4	58.0	56.8	55.5	54.2	52.9	51.7	50.4
28	62.8	61.5	60.2	58.9	57.7	56.4	55.2	53.9	52.7	51.5
29	63.6	62.3	61.0	59.8	58.6	57.3	56.1	54.9	53.7	52.5
30	64.3	63.1	61.8	60.6	59.4	58.2	57.0	55.8	54.6	53.5
31	65.0	63.8	62.6	61.4	60.2	59.0	57.8	56.7	55.5	54.4
32	65.7	64.5	63.3	62.1	60.9	59.8	58.6	57.5	56.4	55.2
33	66.3	65.1	64.0	62.8	61.7	60.5	59.4	58.3	57.2	56.1
34	66.9	65.7	64.6	63.5	62.3	61.2	60.1	59.0	57.9	56.9
35	67.5	66.3	65.2	64.1	63.0	61.9	60.8	59.7	58.7	57.6
36	68.0	66.9	65.8	64.7	63.6	62.5	61.5	60.4	59.4	58.3
37	68.5	67.4	66.3	65.3	64.2	63.2	62.1	61.1	60.0	59.0
38	69.0	67.9	66.9	65.8	64.8	63.7	62.7	61.7	60.7	59.7
39	69.5	68.4	67.4	66.3	65.3	64.3	63.3	62.3	61.3	60.3
40	69.9	68.9	67.9	66.9	65.8	64.8	63.8	62.8	61.8	60.9
41	70.4	69.4	68.3	67.3	66.3	65.3	64.4	63.4	62.4	61.4
42 .	70.8	69.8	68.8	67.8	66.8	65.8	64.9	63.9	62.9	62.0
43	71.2	70.2	69.2	68.2	67.3	66.3	65.3	64.4	63.4	62.5
44	71.6	70.6	69.6	68.7	67.7	66.8	65.8	64.9	63.9	63.0
45	72.0	71.0	70.0	69.1	68.1	67.2	66.3	65.3	64.4	63.5
46	72.3	71.4	70.4	69.5	68.5	67.6	66.7	65.8	64.9	64.0
47	72.7	71.7	70.8	69.9	68.9	68.0	67.1	66.2	65.3	64.4
48	73.0	72.1	71.1	70.2	69.3	68.4	67.5	66.6	65.7	64.8
49	73.3	72.4	71.5	70.6	69.7	68.8	67.9	67.0	66.1	65.3
50	73.6	72.7	71.8	70.9	70.0	69.1	68.3	67.4	66.5	65.7
51	73.9	73.0	72.1	71.2	70.4	69.5	68.6	67.8	66.9	66.0
52	74.2	73.3	72.4	71.6	70.7	69.8	69.0	68.1	67.3	66.4
53	74.5	73.6	72.7	71.9	71.0	70.2	69.3	68.5	67.6	66.8
54	74.8	73.9	73.0	72.2	71.3	70.5	69.6	68.8	68.0	67.1
55	75.0	74.2	73.3	72.5	71.6	70.8	69.9	69.1	68.3	67.5
56	75.3	74.4	73.6	72.7	71.9	71.1	70.3	69.4	68.6	67.8
57	75.5	74.7	73.9	73.0	72.2	71.4	70.6	69.7	68.9	68.1

表 4a₁（续）

$t-t_w$ / t	5.2	5.4	5.6	5.8	6.0	6.2	6.4	6.6	6.8	7.0
58	75.8	75.0	74.1	73.3	72.5	71.6	70.8	70.0	69.2	68.4
59	76.0	75.2	74.4	73.5	72.7	71.9	71.1	70.3	69.5	68.7
60	76.3	75.4	74.6	73.8	73.0	72.2	71.4	70.6	69.8	69.0
61	76.5	75.7	74.8	74.0	73.2	72.4	71.7	70.9	70.1	69.3
62	76.7	75.9	75.1	74.3	73.5	72.7	71.9	71.1	70.4	69.6
63	76.9	76.1	75.3	74.5	73.7	72.9	72.2	71.4	70.6	69.9
64	77.1	76.3	75.5	74.7	74.0	73.2	72.4	71.7	70.9	70.1
65	77.3	76.5	75.7	75.0	74.2	73.4	72.7	71.9	71.2	70.4
66	77.5	76.7	76.0	75.2	74.4	73.6	72.9	72.1	71.4	70.7
67	77.7	76.9	76.2	75.4	74.6	73.9	73.1	72.4	71.6	70.9
68	77.9	77.1	76.4	75.6	74.8	74.1	73.3	72.6	71.9	71.1
69	78.1	77.3	76.6	75.8	75.0	74.3	73.6	72.8	72.1	71.4
70	78.3	77.5	76.7	76.0	75.3	74.5	73.8	73.1	72.3	71.6
71	78.4	77.7	76.9	76.2	75.5	74.7	74.0	73.3	72.6	71.8
72	78.6	77.9	77.1	76.4	75.6	74.9	74.2	73.5	72.8	72.1
73	78.8	78.0	77.3	76.6	75.8	75.1	74.4	73.7	73.0	72.3
74	78.9	78.2	77.5	76.7	76.0	75.3	74.6	73.9	73.2	72.5
75	79.1	78.4	77.6	76.9	76.2	75.5	74.8	74.1	73.4	72.7
76	79.3	78.5	77.8	77.1	76.4	75.7	75.0	74.3	73.6	72.9
77	79.4	78.7	78.0	77.3	76.6	75.9	75.2	74.5	73.8	73.1
78	79.6	78.9	78.1	77.4	76.7	76.0	75.3	74.7	74.0	73.3
79	79.7	79.0	78.3	77.6	76.9	76.2	75.5	74.8	74.2	73.5
80	79.9	79.2	78.5	77.8	77.1	76.4	75.7	75.0	74.4	73.7
81	80.0	79.3	78.6	77.9	77.2	76.6	75.9	75.2	74.5	73.9
82	80.2	79.5	78.8	78.1	77.4	76.7	76.0	75.4	74.7	74.1
83	80.3	79.6	78.9	78.2	77.6	76.9	76.2	75.6	74.9	74.2
84	80.4	79.8	79.1	78.4	77.7	77.0	76.4	75.7	75.1	74.4
85	80.6	79.9	79.2	78.5	77.9	77.2	76.5	75.9	75.2	74.6
86	80.7	80.0	79.4	78.7	78.0	77.4	76.7	76.1	75.4	74.8
87	80.8	80.2	79.5	78.8	78.2	77.5	76.9	76.2	75.6	74.9
88	81.0	80.3	79.6	79.0	78.3	77.7	77.0	76.4	75.7	75.1
89	81.1	80.4	79.8	79.1	78.5	77.8	77.2	76.5	75.9	75.3
90	81.2	80.6	79.9	79.3	78.6	78.0	77.3	76.7	76.1	75.4
91	81.4	80.7	80.0	79.4	78.8	78.1	77.5	76.8	76.2	75.6
92	81.5	80.8	80.2	79.5	78.9	78.3	77.6	77.0	76.4	75.7
93	81.6	81.0	80.3	79.7	79.0	78.4	77.8	77.1	76.5	75.9
94	81.7	81.1	80.4	79.8	79.2	78.5	77.9	77.3	76.7	76.1
95	81.8	81.2	80.6	79.9	79.3	78.7	78.0	77.4	76.8	76.2
96	82.0	81.3	80.7	80.1	79.4	78.8	78.2	77.6	77.0	76.4
97	82.1	81.4	80.8	80.2	79.6	78.9	78.3	77.7	77.1	76.5
98	82.2	81.6	80.9	80.3	79.7	79.1	78.5	77.9	77.2	76.6
99	82.3	81.7	81.1	80.4	79.8	79.2	78.6	78.0	77.4	76.8
100	82.4	81.8	81.2	80.6	79.9	79.3	78.7	78.1	77.5	76.9

表 4a₁（续）

t\t−t_w	7.2	7.4	7.6	7.8	8.0	8.2	8.4	8.6	8.8	9.0
15	29.5	27.7	26.0	24.3	22.5	20.8	19.1	17.5	15.8	14.1
16	31.7	30.0	28.4	26.7	25.0	23.4	21.8	20.1	18.5	16.9
17	33.8	32.2	30.6	29.0	27.4	25.8	24.2	22.6	21.1	19.5
18	35.8	34.3	32.7	31.1	29.6	28.0	26.5	25.0	23.5	22.0
19	37.7	36.2	34.6	33.1	31.6	30.1	28.7	27.2	25.7	24.3
20	39.4	38.0	36.5	35.0	33.6	32.1	30.7	29.3	27.8	26.4
21	41.1	39.7	38.2	36.8	35.4	34.0	32.6	31.2	29.8	28.5
22	42.6	41.2	39.9	38.5	37.1	35.7	34.4	33.0	31.7	30.4
23	44.1	42.7	41.4	40.0	38.7	37.4	36.1	34.8	33.5	32.2
24	45.5	44.2	42.8	41.5	40.2	38.9	37.7	36.4	35.1	33.9
25	46.8	45.5	44.2	42.9	41.7	40.4	39.2	37.9	36.7	35.5
26	48.0	46.8	45.5	44.3	43.0	41.8	40.6	39.4	38.2	37.0
27	49.2	47.9	46.7	45.5	44.3	43.1	41.9	40.7	39.6	38.4
28	50.3	49.1	47.9	46.7	45.5	44.3	43.2	42.0	40.9	39.7
29	51.3	50.1	49.0	47.8	46.7	45.5	44.4	43.3	42.1	41.0
30	52.3	51.2	50.0	48.9	47.7	46.6	45.5	44.4	43.3	42.2
31	53.2	52.1	51.0	49.9	48.8	47.7	46.6	45.5	44.4	43.4
32	54.1	53.0	51.9	50.8	49.8	48.7	47.6	46.6	45.5	44.5
33	55.0	53.9	52.8	51.7	50.7	49.6	48.6	47.6	46.5	45.5
34	55.8	54.7	53.7	52.6	51.6	50.5	49.5	48.5	47.5	46.5
35	56.6	55.5	54.5	53.4	52.4	51.4	50.4	49.4	48.4	47.4
36	57.3	56.3	55.2	54.2	53.2	52.2	51.2	50.3	49.3	48.3
37	58.0	57.0	56.0	55.0	54.0	53.0	52.0	51.1	50.1	49.2
38	58.6	57.7	56.7	55.7	54.7	53.8	52.8	51.8	50.9	50.0
39	59.3	58.3	57.3	56.4	55.4	54.5	53.5	52.6	51.7	50.7
40	59.9	58.9	58.0	57.0	56.1	55.2	54.2	53.3	52.4	51.5
41	60.5	59.5	58.6	57.7	56.7	55.8	54.9	54.0	53.1	52.2
42	61.0	60.1	59.2	58.3	57.3	56.4	55.5	54.6	53.8	52.9
43	61.6	60.7	59.7	58.8	57.9	57.0	56.1	55.3	54.4	53.5
44	62.1	61.2	60.3	59.4	58.5	57.6	56.7	55.9	55.0	54.1
45	62.6	61.7	60.8	59.9	59.0	58.2	57.3	56.4	55.6	54.7
46	63.1	62.2	61.3	60.4	59.6	58.7	57.8	57.0	56.2	55.3
47	63.5	62.7	61.8	60.9	60.1	59.2	58.4	57.5	56.7	55.9
48	64.0	63.1	62.2	61.4	60.5	59.7	58.9	58.0	57.2	56.4
49	64.4	63.5	62.7	61.8	61.0	60.2	59.4	58.5	57.7	56.9
50	64.8	64.0	63.1	62.3	61.5	60.6	59.8	59.0	58.2	57.4
51	65.2	64.4	63.5	62.7	61.9	61.1	60.3	59.5	58.7	57.9
52	65.6	64.8	63.9	63.1	62.3	61.5	60.7	59.9	59.1	58.4
53	66.0	65.1	64.3	63.5	62.7	61.9	61.1	60.4	59.6	58.8
54	66.3	65.5	64.7	63.9	63.1	62.3	61.6	60.8	60.0	59.2
55	66.7	65.9	65.1	64.3	63.5	62.7	61.9	61.2	60.4	59.7
56	67.0	66.2	65.4	64.6	63.9	63.1	62.3	61.6	60.8	60.1
57	67.3	66.6	65.8	65.0	64.2	63.5	62.7	62.0	61.2	60.5

表 4a₁（续）

t ＼ $t-t_w$	7.2	7.4	7.6	7.8	8.0	8.2	8.4	8.6	8.8	9.0
58	67.7	66.9	66.1	65.3	64.6	63.8	63.1	62.3	61.6	60.8
59	68.0	67.2	66.4	65.7	64.9	64.2	63.4	62.7	61.9	61.2
60	68.3	67.5	66.7	66.0	65.2	64.5	63.8	63.0	62.3	61.6
61	68.6	67.8	67.1	66.3	65.6	64.8	64.1	63.4	62.6	61.9
62	68.9	68.1	67.4	66.6	65.9	65.1	64.4	63.7	63.0	62.3
63	69.1	68.4	67.6	66.9	66.2	65.5	64.7	64.0	63.3	62.6
64	69.4	68.7	67.9	67.2	66.5	65.8	65.0	64.3	63.6	62.9
65	69.7	68.9	68.2	67.5	66.8	66.0	65.3	64.6	63.9	63.2
66	69.9	69.2	68.5	67.8	67.0	66.3	65.6	64.9	64.2	63.6
67	70.2	69.5	68.7	68.0	67.3	66.6	65.9	65.2	64.5	63.9
68	70.4	69.7	69.0	68.3	67.6	66.9	66.2	65.5	64.8	64.2
69	70.7	70.0	69.2	68.5	67.8	67.2	66.5	65.8	65.1	64.4
70	70.9	70.2	69.5	68.8	68.1	67.4	66.7	66.1	65.4	64.7
71	71.1	70.4	69.7	69.0	68.4	67.7	67.0	66.3	65.7	65.0
72	71.4	70.7	70.0	69.3	68.6	67.9	67.3	66.6	65.9	65.3
73	71.6	70.9	70.2	69.5	68.8	68.2	67.5	66.8	66.2	65.5
74	71.8	71.1	70.4	69.8	69.1	68.4	67.7	67.1	66.4	65.8
75	72.0	71.3	70.7	70.0	69.3	68.6	68.0	67.3	66.7	66.0
76	72.2	71.5	70.9	70.2	69.5	68.9	68.2	67.6	66.9	66.3
77	72.4	71.8	71.1	70.4	69.8	69.1	68.5	67.8	67.2	66.5
78	72.6	72.0	71.3	70.6	70.0	69.3	68.7	68.0	67.4	66.8
79	72.8	72.2	71.5	70.8	70.2	69.5	68.9	68.3	67.6	67.0
80	73.0	72.4	71.7	71.1	70.4	69.8	69.1	68.5	67.9	67.2
81	73.2	72.6	71.9	71.3	70.6	70.0	69.3	68.7	68.1	67.5
82	73.4	72.7	72.1	71.5	70.8	70.2	69.6	68.9	68.3	67.7
83	73.6	72.9	72.3	71.7	71.0	70.4	69.8	69.1	68.5	67.9
84	73.8	73.1	72.5	71.8	71.2	70.6	70.0	69.3	68.7	68.1
85	73.9	73.3	72.7	72.0	71.4	70.8	70.2	69.6	68.9	68.3
86	74.1	73.5	72.9	72.2	71.6	71.0	70.4	69.8	69.1	68.5
87	74.3	73.7	73.0	72.4	71.8	71.2	70.6	70.0	69.3	68.7
88	74.5	73.8	73.2	72.6	72.0	71.4	70.8	70.1	69.5	69.0
89	74.6	74.0	73.4	72.8	72.2	71.5	70.9	70.3	69.7	69.2
90	74.8	74.2	73.6	72.9	72.3	71.7	71.1	70.5	69.9	69.3
91	75.0	74.3	73.7	73.1	72.5	71.9	71.3	70.7	70.1	69.5
92	75.1	74.5	73.9	73.3	72.7	72.1	71.5	70.9	70.3	69.7
93	75.3	74.7	74.1	73.5	72.9	72.3	71.7	71.1	70.5	69.9
94	75.4	74.8	74.2	73.6	73.0	72.4	71.9	71.3	70.7	70.1
95	75.6	75.0	74.4	73.8	73.2	72.6	72.0	71.4	70.9	70.3
96	75.7	75.1	74.6	74.0	73.4	72.8	72.2	71.6	71.0	70.5
97	75.9	75.3	74.7	74.1	73.5	73.0	72.4	71.8	71.2	70.7
98	76.0	75.5	74.9	74.3	73.7	73.1	72.5	72.0	71.4	70.8
99	76.2	75.6	75.0	74.4	73.9	73.3	72.7	72.1	71.6	71.0
100	76.3	75.8	75.2	74.6	74.0	73.4	72.9	72.3	71.7	71.2

表 4a₁（续）

$t-t_w$ / t	9.2	9.4	9.6	9.8	10.0	10.2	10.4	10.6	10.8	11.0
15	12.4	10.8	9.2	7.5	5.9	4.3	2.7	1.1		
16	15.3	13.7	12.1	10.5	9.0	7.4	5.9	4.3	2.8	1.3
17	18.0	16.4	14.9	13.4	11.9	10.4	8.9	7.4	5.9	4.4
18	20.5	19.0	17.5	16.0	14.6	13.1	11.7	10.3	8.8	7.4
19	22.8	21.4	20.0	18.5	17.1	15.7	14.3	12.9	11.6	10.2
20	25.0	23.6	22.2	20.9	19.5	18.1	16.8	15.4	14.1	12.8
21	27.1	25.7	24.4	23.1	21.7	20.4	19.1	17.8	16.5	15.2
22	29.0	27.7	26.4	25.1	23.8	22.6	21.3	20.0	18.8	17.5
23	30.9	29.6	28.3	27.1	25.8	24.6	23.4	22.1	20.9	19.7
24	32.6	31.4	30.1	28.9	27.7	26.5	25.3	24.1	22.9	21.7
25	34.2	33.0	31.8	30.6	29.5	28.3	27.1	26.0	24.8	23.7
26	35.8	34.6	33.4	32.3	31.1	30.0	28.8	27.7	26.6	25.5
27	37.2	36.1	34.9	33.8	32.7	31.6	30.5	29.4	28.3	27.2
28	38.6	37.5	36.4	35.3	34.2	33.1	32.0	30.9	29.9	28.8
29	39.9	38.8	37.7	36.6	35.6	34.5	33.5	32.4	31.4	30.3
30	41.1	40.1	39.0	38.0	36.9	35.9	34.8	33.8	32.8	31.8
31	42.3	41.3	40.2	39.2	38.2	37.1	36.1	35.1	34.1	33.1
32	43.4	42.4	41.4	40.4	39.4	38.4	37.4	36.4	35.4	34.4
33	44.5	43.5	42.5	41.5	40.5	39.5	38.5	37.6	36.6	35.7
34	45.5	44.5	43.5	42.5	41.6	40.6	39.7	38.7	37.8	36.8
35	46.4	45.5	44.5	43.5	42.6	41.7	40.7	39.8	38.9	38.0
36	47.3	46.4	45.4	44.5	43.6	42.7	41.7	40.8	39.9	39.0
37	48.2	47.3	46.3	45.4	44.5	43.6	42.7	41.8	40.9	40.0
38	49.0	48.1	47.2	46.3	45.4	44.5	43.6	42.7	41.9	41.0
39	49.8	48.9	48.0	47.1	46.2	45.4	44.5	43.6	42.8	41.9
40	50.6	49.7	48.8	47.9	47.1	46.2	45.3	44.5	43.6	42.8
41	51.3	50.4	49.6	48.7	47.8	47.0	46.1	45.3	44.5	43.6
42	52.0	51.1	50.3	49.4	48.6	47.7	46.9	46.1	45.2	44.4
43	52.7	51.8	51.0	50.1	49.3	48.5	47.6	46.8	46.0	45.2
44	53.3	52.5	51.6	50.8	50.0	49.1	48.3	47.5	46.7	45.9
45	53.9	53.1	52.3	51.4	50.6	49.8	49.0	48.2	47.4	46.6
46	54.5	53.7	52.9	52.1	51.2	50.5	49.7	48.9	48.1	47.3
47	55.1	54.3	53.4	52.6	51.9	51.1	50.3	49.5	48.7	48.0
48	55.6	54.8	54.0	53.2	52.4	51.7	50.9	50.1	49.4	48.6
49	56.1	55.3	54.6	53.8	53.0	52.2	51.5	50.7	50.0	49.2
50	56.6	55.9	55.1	54.3	53.5	52.8	52.0	51.3	50.5	49.8
51	57.1	56.3	55.6	54.8	54.1	53.3	52.6	51.8	51.1	50.4
52	57.6	56.8	56.1	55.3	54.6	53.8	53.1	52.3	51.6	50.9
53	58.0	57.3	56.5	55.8	55.0	54.3	53.6	52.9	52.1	51.4
54	58.5	57.7	57.0	56.3	55.5	54.8	54.1	53.4	52.6	51.9
55	58.9	58.2	57.4	56.7	56.0	55.3	54.5	53.8	53.1	52.4
56	59.3	58.6	57.9	57.1	56.4	55.7	55.0	54.3	53.6	52.9
57	59.7	59.0	58.3	57.6	56.8	56.1	55.4	54.7	54.0	53.4

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表 4a₁（续）

$t-t_w$ \ t	9.2	9.4	9.6	9.8	10.0	10.2	10.4	10.6	10.8	11.0
58	60.1	59.4	58.7	58.0	57.3	56.6	55.9	55.2	54.5	53.8
59	60.5	59.8	59.1	58.4	57.7	57.0	56.3	55.6	54.9	54.2
60	60.9	60.2	59.4	58.7	58.1	57.4	56.7	56.0	55.3	54.7
61	61.2	60.5	59.8	59.1	58.4	57.8	57.1	56.4	55.7	55.1
62	61.6	60.9	60.2	59.5	58.8	58.1	57.5	56.8	56.1	55.5
63	61.9	61.2	60.5	59.8	59.2	58.5	57.8	57.2	56.5	55.9
64	62.2	61.6	60.9	60.2	59.5	58.9	58.2	57.5	56.9	56.2
65	62.6	61.9	61.2	60.5	59.9	59.2	58.5	57.9	57.2	56.6
66	62.9	62.2	61.5	60.9	60.2	59.5	58.9	58.2	57.6	57.0
67	63.2	62.5	61.8	61.2	60.5	59.9	59.2	58.6	57.9	57.3
68	63.5	62.8	62.1	61.5	60.8	60.2	59.5	58.9	58.3	57.6
69	63.8	63.1	62.5	61.8	61.1	60.5	59.9	59.2	58.6	58.0
70	64.1	63.4	62.7	62.1	61.5	60.8	60.2	59.6	58.9	58.3
71	64.3	63.7	63.0	62.4	61.8	61.1	60.5	59.9	59.2	58.6
72	64.6	64.0	63.3	62.7	62.0	61.4	60.8	60.2	59.5	58.9
73	64.9	64.2	63.6	63.0	62.3	61.7	61.1	60.5	59.8	59.2
74	65.1	64.5	63.9	63.2	62.6	62.0	61.4	60.8	60.1	59.5
75	65.4	64.8	64.1	63.5	62.9	62.3	61.6	61.0	60.4	59.8
76	65.7	65.0	64.4	63.8	63.1	62.5	61.9	61.3	60.7	60.1
77	65.9	65.3	64.6	64.0	63.4	62.8	62.2	61.6	61.0	60.4
78	66.1	65.5	64.9	64.3	63.7	63.1	62.5	61.9	61.3	60.7
79	66.4	65.8	65.1	64.5	63.9	63.3	62.7	62.1	61.5	61.0
80	66.6	66.0	65.4	64.8	64.2	63.6	63.0	62.4	61.8	61.2
81	66.8	66.2	65.6	65.0	64.4	63.8	63.2	62.6	62.1	61.5
82	67.1	66.5	65.9	65.3	64.7	64.1	63.5	62.9	62.3	61.7
83	67.3	66.7	66.1	65.5	64.9	64.3	63.7	63.1	62.6	62.0
84	67.5	66.9	66.3	65.7	65.1	64.5	64.0	63.4	62.8	62.2
85	67.7	67.1	66.5	65.9	65.4	64.8	64.2	63.6	63.1	62.5
86	67.9	67.3	66.8	66.2	65.6	65.0	64.4	63.9	63.3	62.7
87	68.2	67.6	67.0	66.4	65.8	65.2	64.7	64.1	63.5	63.0
88	68.4	67.8	67.2	66.6	66.0	65.5	64.9	64.3	63.8	63.2
89	68.6	68.0	67.4	66.8	66.2	65.7	65.1	64.5	64.0	63.4
90	68.8	68.2	67.6	67.0	66.5	65.9	65.3	64.8	64.2	63.7
91	69.0	68.4	67.8	67.2	66.7	66.1	65.5	65.0	64.4	63.9
92	69.2	68.6	68.0	67.4	66.9	66.3	65.8	65.2	64.6	64.1
93	69.3	68.8	68.2	67.6	67.1	66.5	66.0	65.4	64.9	64.3
94	69.5	69.0	68.4	67.8	67.3	66.7	66.2	65.6	65.1	64.5
95	69.7	69.2	68.6	68.0	67.5	66.9	66.4	65.8	65.3	64.7
96	69.9	69.3	68.8	68.2	67.7	67.1	66.6	66.0	65.5	65.0
97	70.1	69.5	69.0	68.4	67.9	67.3	66.8	66.2	65.7	65.2
98	70.3	69.7	69.2	68.6	68.1	67.5	67.0	66.4	65.9	65.4
99	70.4	69.9	69.3	68.8	68.2	67.7	67.2	66.6	66.1	65.6
100	70.6	70.1	69.5	69.0	68.4	67.9	67.4	66.8	66.3	65.8

表 4a₁（续）

t＼t－t_w	11.5	12.0	12.5	13.5	13.5	14.0	14.5	15.0	15.5	16.0
15										
16										
17	0.8									
18	3.9	0.4								
19	6.8	3.4	0.1							
20	9.5	6.3	3.1							
21	12.1	8.9	5.8	2.8						
22	14.4	11.4	8.4	5.5	2.6					
23	16.7	13.8	10.8	8.0	5.2	2.4				
24	18.8	16.0	13.1	10.4	7.6	4.9	2.3			
25	20.8	18.0	15.3	12.6	9.9	7.3	4.8	2.2		
26	22.7	20.0	17.3	14.7	12.1	9.6	7.1	4.6	2.2	
27	24.5	21.8	19.2	16.7	14.2	11.7	9.3	6.9	4.5	2.2
28	26.2	23.6	21.1	18.6	16.1	13.7	11.3	9.0	6.7	4.4
29	27.8	25.2	22.8	20.3	17.9	15.6	13.3	11.0	8.8	6.6
30	29.3	26.8	24.4	22.0	19.7	17.4	15.1	12.9	10.7	8.6
31	30.7	28.3	25.9	23.6	21.3	19.1	16.9	14.7	12.6	10.5
32	32.0	29.7	27.4	25.1	22.9	20.7	18.5	16.4	14.3	12.3
33	33.3	31.0	28.8	26.5	24.3	22.2	20.1	18.0	16.0	14.0
34	34.5	32.3	30.1	27.9	25.7	23.6	21.6	19.5	17.5	15.6
35	35.7	33.5	31.3	29.2	27.1	25.0	23.0	21.0	19.0	17.1
36	36.8	34.6	32.5	30.4	28.3	26.3	24.3	22.4	20.4	18.6
37	37.9	35.7	33.6	31.6	29.5	27.5	25.6	23.7	21.8	19.9
38	38.9	36.7	34.7	32.7	30.7	28.7	26.8	24.9	23.1	21.3
39	39.8	37.7	35.7	33.7	31.8	29.8	28.0	26.1	24.3	22.5
40	40.7	38.7	36.7	34.7	32.8	30.9	29.1	27.2	25.5	23.7
41	41.6	39.6	37.6	35.7	33.8	31.9	30.1	28.3	26.6	24.8
42	42.4	40.4	38.5	36.6	34.7	32.9	31.1	29.4	27.6	25.9
43	43.2	41.3	39.4	37.5	35.7	33.9	32.1	30.3	28.6	27.0
44	44.0	42.1	40.2	38.3	36.5	34.7	33.0	31.3	29.6	28.0
45	44.7	42.8	41.0	39.1	37.4	35.6	33.9	32.2	30.5	28.9
46	45.4	43.6	41.7	39.9	38.2	36.4	34.7	33.1	31.4	29.8
47	46.1	44.3	42.4	40.7	38.9	37.2	35.5	33.9	32.3	30.7
48	46.8	44.9	43.1	41.4	39.7	38.0	36.3	34.7	33.1	31.5
49	47.4	45.6	43.8	42.1	40.4	38.7	37.1	35.5	33.9	32.3
50	48.0	46.2	44.5	42.7	41.1	39.4	37.8	36.2	34.6	33.1
51	48.6	46.8	45.1	43.4	41.7	40.1	38.5	36.9	35.4	33.9
52	49.1	47.4	45.7	44.0	42.3	40.7	39.1	37.6	36.1	34.6
53	49.7	47.9	46.2	44.6	43.0	41.4	39.8	38.3	36.7	35.3
54	50.2	48.5	46.8	45.2	43.5	42.0	40.4	38.9	37.4	35.9
55	50.7	49.0	47.3	45.7	44.1	42.6	41.0	39.5	38.0	36.6
56	51.2	49.5	47.9	46.3	44.7	43.1	41.6	40.1	38.6	37.2
57	51.7	50.0	48.4	46.8	45.2	43.7	42.2	40.7	39.2	37.8

表 4a₁（续）

t—t_w / t	11.5	12.0	12.5	13.5	13.5	14.0	14.5	15.0	15.5	16.0
58	52.1	50.5	48.9	47.3	45.7	44.2	42.7	41.2	39.8	38.4
59	52.6	50.9	49.3	47.8	46.2	44.7	43.2	41.8	40.3	38.9
60	53.0	51.4	49.8	48.2	46.7	45.2	43.7	42.3	40.9	39.5
61	53.4	51.8	50.3	48.7	47.2	45.7	44.2	42.8	41.4	40.0
62	53.8	52.2	50.7	49.2	47.6	46.2	44.7	43.3	41.9	40.5
63	54.2	52.7	51.1	49.6	48.1	46.6	45.2	43.8	42.4	41.0
64	54.6	53.1	51.5	50.0	48.5	47.1	45.6	44.2	42.9	41.5
65	55.0	53.5	51.9	50.4	49.0	47.5	46.1	44.7	43.3	42.0
66	55.4	53.8	52.3	50.8	49.4	47.9	46.5	45.1	43.8	42.5
67	55.7	54.2	52.7	51.2	49.8	48.3	46.9	45.6	44.2	42.9
68	56.1	54.6	53.1	51.6	50.2	48.7	47.4	46.0	44.7	43.3
69	56.4	54.9	53.4	52.0	50.5	49.1	47.8	46.4	45.1	43.8
70	56.8	55.3	53.8	52.3	50.9	49.5	48.2	46.8	45.5	44.2
71	57.1	55.6	54.1	52.7	51.3	49.9	48.5	47.2	45.9	44.6
72	57.4	55.9	54.5	53.1	51.6	50.3	48.9	47.6	46.3	45.0
73	57.7	56.3	54.8	53.4	52.0	50.6	49.3	48.0	46.7	45.4
74	58.0	56.6	55.1	53.7	52.3	51.0	49.6	48.3	47.0	45.8
75	58.3	56.9	55.5	54.1	52.7	51.3	50.0	48.7	47.4	46.1
76	58.6	57.2	55.8	54.4	53.0	51.7	50.3	49.0	47.8	46.5
77	58.9	57.5	56.1	54.7	53.3	52.0	50.7	49.4	48.1	46.9
78	59.2	57.8	56.4	55.0	53.6	52.3	51.0	49.7	48.4	47.2
79	59.5	58.1	56.7	55.3	54.0	52.6	51.3	50.0	48.8	47.6
80	59.8	58.4	57.0	55.6	54.3	52.9	51.6	50.4	49.1	47.9
81	60.0	58.6	57.3	55.9	54.6	53.2	52.0	50.7	49.4	48.2
82	60.3	58.9	57.5	56.2	54.9	53.5	52.3	51.0	49.8	48.5
83	60.6	59.2	57.8	56.5	55.1	53.8	52.6	51.3	50.1	48.9
84	60.8	59.4	58.1	56.7	55.4	54.1	52.9	51.6	50.4	49.2
85	61.1	59.7	58.4	57.0	55.7	54.4	53.2	51.9	50.7	49.5
86	61.3	60.0	58.6	57.3	56.0	54.7	53.4	52.2	51.0	49.8
87	61.6	60.2	58.9	57.6	56.3	55.0	53.7	52.5	51.3	50.1
88	61.8	60.5	59.1	57.8	56.5	55.3	54.0	52.8	51.6	50.4
89	62.1	60.7	59.4	58.1	56.8	55.5	54.3	53.1	51.9	50.7
90	62.3	60.9	59.6	58.3	57.0	55.8	54.6	53.3	52.1	51.0
91	62.5	61.2	59.9	58.6	57.3	56.1	54.8	53.6	52.4	51.3
92	62.8	61.4	60.1	58.8	57.6	56.3	55.1	53.9	52.7	51.5
93	63.0	61.7	60.3	59.1	57.8	56.6	55.3	54.1	53.0	51.8
94	63.2	61.9	60.6	59.3	58.1	56.8	55.6	54.4	53.2	52.1
95	63.4	62.1	60.8	59.5	58.3	57.1	55.9	54.7	53.5	52.3
96	63.6	62.3	61.0	59.8	58.5	57.3	56.1	54.9	53.8	52.6
97	63.8	62.5	61.3	60.0	58.8	57.6	56.4	55.2	54.0	52.9
98	64.1	62.8	61.5	60.2	59.0	57.8	56.6	55.4	54.3	53.1
99	64.3	63.0	61.7	60.5	59.2	58.0	56.8	55.7	54.5	53.4
100	64.5	63.2	61.9	60.7	59.5	58.3	57.1	55.9	54.8	53.6

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表 4a₂　柱状水银温度表相对湿度查算表

$P = 90 \text{ kPa}, A = 0.815 \times 10^{-3} \, ℃^{-1} \, (0.4 \text{ m/s})$

$t \diagdown t-t_w$	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0
15	100.0	98.9	97.9	96.8	95.7	94.7	93.6	92.6	91.5	90.5	89.4
16	100.0	99.0	97.9	96.9	95.9	94.8	93.8	92.8	91.8	90.8	89.7
17	100.0	99.0	98.0	97.0	96.0	95.0	94.0	93.0	92.0	91.0	90.0
18	100.0	99.0	98.0	97.1	96.1	95.1	94.2	93.2	92.2	91.3	90.3
19	100.0	99.0	98.1	97.1	96.2	95.3	94.3	93.4	92.4	91.5	90.6
20	100.0	99.1	98.1	97.2	96.3	95.4	94.5	93.5	92.6	91.7	90.8
21	100.0	99.1	98.2	97.3	96.4	95.5	94.6	93.7	92.8	91.9	91.1
22	100.0	99.1	98.2	97.4	96.5	95.6	94.7	93.9	93.0	92.1	91.3
23	100.0	99.1	98.3	97.4	96.6	95.7	94.9	94.0	93.2	92.3	91.5
24	100.0	99.2	98.3	97.5	96.6	95.8	95.0	94.2	93.3	92.5	91.7
25	100.0	99.2	98.4	97.5	96.7	95.9	95.1	94.3	93.5	92.7	91.9
26	100.0	99.2	98.4	97.6	96.8	96.0	95.2	94.4	93.6	92.8	92.1
27	100.0	99.2	98.4	97.6	96.9	96.1	95.3	94.5	93.8	93.0	92.2
28	100.0	99.2	98.5	97.7	96.9	96.2	95.4	94.6	93.9	93.1	92.4
29	100.0	99.2	98.5	97.7	97.0	96.2	95.5	94.7	94.0	93.3	92.5
30	100.0	99.3	98.5	97.8	97.0	96.3	95.6	94.8	94.1	93.4	92.7
31	100.0	99.3	98.5	97.8	97.1	96.4	95.7	94.9	94.2	93.5	92.8
32	100.0	99.3	98.6	97.9	97.1	96.4	95.7	95.0	94.3	93.6	92.9
33	100.0	99.3	98.6	97.9	97.2	96.5	95.8	95.1	94.4	93.7	93.1
34	100.0	99.3	98.6	97.9	97.2	96.6	95.9	95.2	94.5	93.9	93.2
35	100.0	99.3	98.6	98.0	97.3	96.6	95.9	95.3	94.6	94.0	93.3
36	100.0	99.3	98.7	98.0	97.3	96.7	96.0	95.4	94.7	94.1	93.4
37	100.0	99.3	98.7	98.0	97.4	96.7	96.1	95.4	94.8	94.1	93.5
38	100.0	99.3	98.7	98.1	97.4	96.8	96.1	95.5	94.9	94.2	93.6
39	100.0	99.4	98.7	98.1	97.5	96.8	96.2	95.6	94.9	94.3	93.7
40	100.0	99.4	98.7	98.1	97.5	96.9	96.2	95.6	95.0	94.4	93.8
41	100.0	99.4	98.8	98.1	97.5	96.9	96.3	95.7	95.1	94.5	93.9
42	100.0	99.4	98.8	98.2	97.6	97.0	96.4	95.8	95.2	94.6	94.0
43	100.0	99.4	98.8	98.2	97.6	97.0	96.4	95.8	95.2	94.6	94.1
44	100.0	99.4	98.8	98.2	97.6	97.0	96.5	95.9	95.3	94.7	94.1
45	100.0	99.4	98.8	98.2	97.7	97.1	96.5	95.9	95.3	94.8	94.2
46	100.0	99.4	98.8	98.3	97.7	97.1	96.5	96.0	95.4	94.8	94.3
47	100.0	99.4	98.9	98.3	97.7	97.1	96.6	96.0	95.5	94.9	94.3
48	100.0	99.4	98.9	98.3	97.7	97.2	96.6	96.1	95.5	95.0	94.4
49	100.0	99.4	98.9	98.3	97.8	97.2	96.7	96.1	95.6	95.0	94.5
50	100.0	99.4	98.9	98.3	97.8	97.2	96.7	96.2	95.6	95.1	94.5
51	100.0	99.5	98.9	98.4	97.8	97.3	96.7	96.2	95.7	95.1	94.6
52	100.0	99.5	98.9	98.4	97.8	97.3	96.8	96.2	95.7	95.2	94.7
53	100.0	99.5	98.9	98.4	97.9	97.3	96.8	96.3	95.8	95.2	94.7
54	100.0	99.5	98.9	98.4	97.9	97.4	96.8	96.3	95.8	95.3	94.8
55	100.0	99.5	99.0	98.4	97.9	97.4	96.9	96.4	95.9	95.3	94.8
56	100.0	99.5	99.0	98.4	97.9	97.4	96.9	96.4	95.9	95.4	94.9
57	100.0	99.5	99.0	98.5	98.0	97.4	96.9	96.4	95.9	95.4	94.9

表 4a$_2$（续）

t＼t－t$_w$	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0
58	100.0	99.5	99.0	98.5	98.0	97.5	97.0	96.5	96.0	95.5	95.0
59	100.0	99.5	99.0	98.5	98.0	97.5	97.0	96.5	96.0	95.5	95.0
60	100.0	99.5	99.0	98.5	98.0	97.5	97.0	96.5	96.1	95.6	95.1
61	100.0	99.5	99.0	98.5	98.0	97.5	97.1	96.6	96.1	95.6	95.1
62	100.0	99.5	99.0	98.5	98.1	97.6	97.1	96.6	96.1	95.7	95.2
63	100.0	99.5	99.0	98.6	98.1	97.6	97.1	96.6	96.2	95.7	95.2
64	100.0	99.5	99.0	98.6	98.1	97.6	97.1	96.7	96.2	95.7	95.3
65	100.0	99.5	99.1	98.6	98.1	97.6	97.2	96.7	96.2	95.8	95.3
66	100.0	99.5	99.1	98.6	98.1	97.7	97.2	96.7	96.3	95.8	95.4
67	100.0	99.5	99.1	98.6	98.1	97.7	97.2	96.8	96.3	95.9	95.4
68	100.0	99.5	99.1	98.6	98.2	97.7	97.2	96.8	96.3	95.9	95.4
69	100.0	99.5	99.1	98.6	98.2	97.7	97.3	96.8	96.4	95.9	95.5
70	100.0	99.5	99.1	98.6	98.2	97.7	97.3	96.8	96.4	96.0	95.5
71	100.0	99.5	99.1	98.7	98.2	97.8	97.3	96.9	96.4	96.0	95.6
72	100.0	99.6	99.1	98.7	98.2	97.8	97.3	96.9	96.5	96.0	95.6
73	100.0	99.6	99.1	98.7	98.2	97.8	97.4	96.9	96.5	96.1	95.6
74	100.0	99.6	99.1	98.7	98.2	97.8	97.4	96.9	96.5	96.1	95.7
75	100.0	99.6	99.1	98.7	98.3	97.8	97.4	97.0	96.5	96.1	95.7
76	100.0	99.6	99.1	98.7	98.3	97.8	97.4	97.0	96.6	96.2	95.7
77	100.0	99.6	99.1	98.7	98.3	97.9	97.4	97.0	96.6	96.2	95.8
78	100.0	99.6	99.1	98.7	98.3	97.9	97.5	97.0	96.6	96.2	95.8
79	100.0	99.6	99.2	98.7	98.3	97.9	97.5	97.1	96.7	96.2	95.8
80	100.0	99.6	99.2	98.7	98.3	97.9	97.5	97.1	96.7	96.3	95.9
81	100.0	99.6	99.2	98.8	98.3	97.9	97.5	97.1	96.7	96.3	95.9
82	100.0	99.6	99.2	98.8	98.4	97.9	97.5	97.1	96.7	96.3	95.9
83	100.0	99.6	99.2	98.8	98.4	98.0	97.6	97.2	96.8	96.4	96.0
84	100.0	99.6	99.2	98.8	98.4	98.0	97.6	97.2	96.8	96.4	96.0
85	100.0	99.6	99.2	98.8	98.4	98.0	97.6	97.2	96.8	96.4	96.0
86	100.0	99.6	99.2	98.8	98.4	98.0	97.6	97.2	96.8	96.4	96.0
87	100.0	99.6	99.2	98.8	98.4	98.0	97.6	97.2	96.8	96.5	96.1
88	100.0	99.6	99.2	98.8	98.4	98.0	97.6	97.3	96.9	96.5	96.1
89	100.0	99.6	99.2	98.8	98.4	98.0	97.7	97.3	96.9	96.5	96.1
90	100.0	99.6	99.2	98.8	98.4	98.1	97.7	97.3	96.9	96.5	96.2
91	100.0	99.6	99.2	98.8	98.5	98.1	97.7	97.3	96.9	96.6	96.2
92	100.0	99.6	99.2	98.9	98.5	98.1	97.7	97.3	97.0	96.6	96.2
93	100.0	99.6	99.2	98.9	98.5	98.1	97.7	97.4	97.0	96.6	96.2
94	100.0	99.6	99.2	98.9	98.5	98.1	97.7	97.4	97.0	96.6	96.3
95	100.0	99.6	99.2	98.9	98.5	98.1	97.8	97.4	97.0	96.7	96.3
96	100.0	99.6	99.3	98.9	98.5	98.1	97.8	97.4	97.0	96.7	96.3
97	100.0	99.6	99.3	98.9	98.5	98.2	97.8	97.4	97.1	96.7	96.3
98	100.0	99.6	99.3	98.9	98.5	98.2	97.8	97.4	97.1	96.7	96.4
99	100.0	99.6	99.3	98.9	98.5	98.2	97.8	97.5	97.1	96.7	96.4
100	100.0	99.6	99.3	98.9	98.6	98.2	97.8	97.5	97.1	96.8	96.4

表 4a₂（续）

$t{-}t_w$ t	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0
15	88.4	87.4	86.3	85.3	84.3	83.3	82.2	81.2	80.2	79.2
16	88.7	87.7	86.7	85.7	84.8	83.8	82.8	81.8	80.8	79.8
17	89.1	88.1	87.1	86.2	85.2	84.2	83.3	82.3	81.4	80.4
18	89.4	88.4	87.5	86.5	85.6	84.7	83.7	82.8	81.9	81.0
19	89.7	88.7	87.8	86.9	86.0	85.1	84.2	83.3	82.4	81.5
20	89.9	89.0	88.1	87.3	86.4	85.5	84.6	83.7	82.9	82.0
21	90.2	89.3	88.4	87.6	86.7	85.9	85.0	84.1	83.3	82.4
22	90.4	89.6	88.7	87.9	87.0	86.2	85.4	84.5	83.7	82.9
23	90.7	89.8	89.0	88.2	87.4	86.5	85.7	84.9	84.1	83.3
24	90.9	90.1	89.3	88.5	87.6	86.8	86.1	85.3	84.5	83.7
25	91.1	90.3	89.5	88.7	87.9	87.1	86.4	85.6	84.8	84.0
26	91.3	90.5	89.7	89.0	88.2	87.4	86.7	85.9	85.1	84.4
27	91.5	90.7	89.9	89.2	88.4	87.7	86.9	86.2	85.5	84.7
28	91.6	90.9	90.1	89.4	88.7	87.9	87.2	86.5	85.8	85.0
29	91.8	91.1	90.3	89.6	88.9	88.2	87.5	86.8	86.0	85.3
30	92.0	91.2	90.5	89.8	89.1	88.4	87.7	87.0	86.3	85.6
31	92.1	91.4	90.7	90.0	89.3	88.6	87.9	87.3	86.6	85.9
32	92.2	91.6	90.9	90.2	89.5	88.8	88.2	87.5	86.8	86.1
33	92.4	91.7	91.0	90.4	89.7	89.0	88.4	87.7	87.0	86.4
34	92.5	91.9	91.2	90.5	89.9	89.2	88.6	87.9	87.3	86.6
35	92.6	92.0	91.3	90.7	90.0	89.4	88.8	88.1	87.5	86.8
36	92.8	92.1	91.5	90.8	90.2	89.6	88.9	88.3	87.7	87.1
37	92.9	92.2	91.6	91.0	90.4	89.7	89.1	88.5	87.9	87.3
38	93.0	92.4	91.7	91.1	90.5	89.9	89.3	88.7	88.1	87.5
39	93.1	92.5	91.9	91.3	90.6	90.0	89.4	88.8	88.2	87.6
40	93.2	92.6	92.0	91.4	90.8	90.2	89.6	89.0	88.4	87.8
41	93.3	92.7	92.1	91.5	90.9	90.3	89.7	89.2	88.6	88.0
42	93.4	92.8	92.2	91.6	91.0	90.5	89.9	89.3	88.7	88.2
43	93.5	92.9	92.3	91.7	91.2	90.6	90.0	89.5	88.9	88.3
44	93.6	93.0	92.4	91.8	91.3	90.7	90.2	89.6	89.0	88.5
45	93.6	93.1	92.5	91.9	91.4	90.8	90.3	89.7	89.2	88.6
46	93.7	93.2	92.6	92.1	91.5	90.9	90.4	89.9	89.3	88.8
47	93.8	93.2	92.7	92.1	91.6	91.1	90.5	90.0	89.4	88.9
48	93.9	93.3	92.8	92.2	91.7	91.2	90.6	90.1	89.6	89.0
49	93.9	93.4	92.9	92.3	91.8	91.3	90.7	90.2	89.7	89.2
50	94.0	93.5	93.0	92.4	91.9	91.4	90.9	90.3	89.8	89.3
51	94.1	93.6	93.0	92.5	92.0	91.5	91.0	90.4	89.9	89.4
52	94.1	93.6	93.1	92.6	92.1	91.6	91.1	90.5	90.0	89.5
53	94.2	93.7	93.2	92.7	92.2	91.7	91.2	90.7	90.2	89.7
54	94.3	93.8	93.3	92.8	92.3	91.7	91.2	90.8	90.3	89.8
55	94.3	93.8	93.3	92.8	92.3	91.8	91.3	90.8	90.4	89.9
56	94.4	93.9	93.4	92.9	92.4	91.9	91.4	90.9	90.5	90.0
57	94.5	94.0	93.5	93.0	92.5	92.0	91.5	91.0	90.6	90.1

表 4a₂（续）

t－t_w / t	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0
58	94.5	94.0	93.5	93.0	92.6	92.1	91.6	91.1	90.6	90.2
59	94.6	94.1	93.6	93.1	92.6	92.2	91.7	91.2	90.7	90.3
60	94.6	94.1	93.7	93.2	92.7	92.2	91.8	91.3	90.8	90.4
61	94.7	94.2	93.7	93.2	92.8	92.3	91.8	91.4	90.9	90.5
62	94.7	94.2	93.8	93.3	92.8	92.4	91.9	91.5	91.0	90.5
63	94.8	94.3	93.8	93.4	92.9	92.5	92.0	91.5	91.1	90.6
64	94.8	94.4	93.9	93.4	93.0	92.5	92.1	91.6	91.2	90.7
65	94.9	94.4	93.9	93.5	93.0	92.6	92.1	91.7	91.2	90.8
66	94.9	94.5	94.0	93.5	93.1	92.7	92.2	91.8	91.3	90.9
67	94.9	94.5	94.1	93.6	93.2	92.7	92.3	91.8	91.4	91.0
68	95.0	94.5	94.1	93.7	93.2	92.8	92.3	91.9	91.5	91.0
69	95.0	94.6	94.2	93.7	93.3	92.8	92.4	92.0	91.5	91.1
70	95.1	94.6	94.2	93.8	93.3	92.9	92.5	92.0	91.6	91.2
71	95.1	94.7	94.3	93.8	93.4	93.0	92.5	92.1	91.7	91.3
72	95.2	94.7	94.3	93.9	93.4	93.0	92.6	92.2	91.8	91.3
73	95.2	94.8	94.3	93.9	93.5	93.1	92.7	92.2	91.8	91.4
74	95.2	94.8	94.4	94.0	93.6	93.1	92.7	92.3	91.9	91.5
75	95.3	94.9	94.4	94.0	93.6	93.2	92.8	92.4	92.0	91.5
76	95.3	94.9	94.5	94.1	93.7	93.2	92.8	92.4	92.0	91.6
77	95.4	94.9	94.5	94.1	93.7	93.3	92.9	92.5	92.1	91.7
78	95.4	95.0	94.6	94.2	93.8	93.3	92.9	92.5	92.1	91.7
79	95.4	95.0	94.6	94.2	93.8	93.4	93.0	92.6	92.2	91.8
80	95.5	95.1	94.6	94.2	93.8	93.4	93.0	92.7	92.3	91.9
81	95.5	95.1	94.7	94.3	93.9	93.5	93.1	92.7	92.3	91.9
82	95.5	95.1	94.7	94.3	93.9	93.5	93.2	92.8	92.4	92.0
83	95.6	95.2	94.8	94.4	94.0	93.6	93.2	92.8	92.4	92.0
84	95.6	95.2	94.8	94.4	94.0	93.6	93.3	92.9	92.5	92.1
85	95.6	95.2	94.8	94.5	94.1	93.7	93.3	92.9	92.5	92.2
86	95.7	95.3	94.9	94.5	94.1	93.7	93.4	93.0	92.6	92.2
87	95.7	95.3	94.9	94.5	94.2	93.8	93.4	93.0	92.6	92.3
88	95.7	95.3	95.0	94.6	94.2	93.8	93.4	93.1	92.7	92.3
89	95.7	95.4	95.0	94.6	94.2	93.9	93.5	93.1	92.7	92.4
90	95.8	95.4	95.0	94.7	94.3	93.9	93.5	93.2	92.8	92.4
91	95.8	95.4	95.1	94.7	94.3	93.9	93.6	93.2	92.8	92.5
92	95.8	95.5	95.1	94.7	94.4	94.0	93.6	93.3	92.9	92.5
93	95.9	95.5	95.1	94.8	94.4	94.0	93.7	93.3	92.9	92.6
94	95.9	95.5	95.2	94.8	94.4	94.1	93.7	93.4	93.0	92.6
95	95.9	95.6	95.2	94.8	94.5	94.1	93.8	93.4	93.0	92.7
96	96.0	95.6	95.2	94.9	94.5	94.2	93.8	93.4	93.1	92.7
97	96.0	95.6	95.3	94.9	94.5	94.2	93.8	93.5	93.1	92.8
98	96.0	95.6	95.3	94.9	94.6	94.2	93.9	93.5	93.2	92.8
99	96.0	95.7	95.3	95.0	94.6	94.3	93.9	93.6	93.2	92.9
100	96.1	95.7	95.4	95.0	94.7	94.3	94.0	93.6	93.3	92.9

表 4a₂（续）

$\dfrac{t-t_w}{t}$	2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9	3.0
15	78.2	77.2	76.2	75.2	74.2	73.2	72.3	71.3	70.3	69.3
16	78.9	77.9	76.9	76.0	75.0	74.1	73.1	72.1	71.2	70.3
17	79.5	78.5	77.6	76.7	75.7	74.8	73.9	73.0	72.0	71.1
18	80.1	79.1	78.2	77.3	76.4	75.5	74.6	73.7	72.8	71.9
19	80.6	79.7	78.8	77.9	77.1	76.2	75.3	74.5	73.6	72.7
20	81.1	80.3	79.4	78.5	77.7	76.8	76.0	75.1	74.3	73.4
21	81.6	80.8	79.9	79.1	78.3	77.4	76.6	75.8	74.9	74.1
22	82.1	81.2	80.4	79.6	78.8	78.0	77.2	76.4	75.6	74.8
23	82.5	81.7	80.9	80.1	79.3	78.5	77.7	76.9	76.2	75.4
24	82.9	82.1	81.3	80.6	79.8	79.0	78.2	77.5	76.7	76.0
25	83.3	82.5	81.8	81.0	80.2	79.5	78.7	78.0	77.2	76.5
26	83.6	82.9	82.2	81.4	80.7	79.9	79.2	78.5	77.7	77.0
27	84.0	83.3	82.5	81.8	81.1	80.4	79.6	78.9	78.2	77.5
28	84.3	83.6	82.9	82.2	81.5	80.8	80.1	79.4	78.7	78.0
29	84.6	83.9	83.2	82.5	81.8	81.2	80.5	79.8	79.1	78.4
30	84.9	84.2	83.6	82.9	82.2	81.5	80.8	80.2	79.5	78.8
31	85.2	84.5	83.9	83.2	82.5	81.9	81.2	80.5	79.9	79.2
32	85.5	84.8	84.2	83.5	82.8	82.2	81.5	80.9	80.2	79.6
33	85.7	85.1	84.4	83.8	83.1	82.5	81.9	81.2	80.6	80.0
34	86.0	85.3	84.7	84.1	83.4	82.8	82.2	81.6	80.9	80.3
35	86.2	85.6	85.0	84.3	83.7	83.1	82.5	81.9	81.3	80.6
36	86.4	85.8	85.2	84.6	84.0	83.4	82.8	82.2	81.6	81.0
37	86.7	86.0	85.4	84.8	84.2	83.6	83.0	82.4	81.8	81.3
38	86.9	86.3	85.7	85.1	84.5	83.9	83.3	82.7	82.1	81.5
39	87.1	86.5	85.9	85.3	84.7	84.1	83.5	83.0	82.4	81.8
40	87.2	86.7	86.1	85.5	84.9	84.4	83.8	83.2	82.7	82.1
41	87.4	86.9	86.3	85.7	85.1	84.6	84.0	83.5	82.9	82.3
42	87.6	87.0	86.5	85.9	85.3	84.8	84.2	83.7	83.1	82.6
43	87.8	87.2	86.7	86.1	85.5	85.0	84.5	83.9	83.4	82.8
44	87.9	87.4	86.8	86.3	85.7	85.2	84.7	84.1	83.6	83.0
45	88.1	87.5	87.0	86.5	85.9	85.4	84.9	84.3	83.8	83.3
46	88.2	87.7	87.2	86.6	86.1	85.6	85.0	84.5	84.0	83.5
47	88.4	87.8	87.3	86.8	86.3	85.7	85.2	84.7	84.2	83.7
48	88.5	88.0	87.5	87.0	86.4	85.9	85.4	84.9	84.4	83.9
49	88.7	88.1	87.6	87.1	86.6	86.1	85.6	85.1	84.6	84.1
50	88.8	88.3	87.8	87.3	86.7	86.2	85.7	85.2	84.7	84.2
51	88.9	88.4	87.9	87.4	86.9	86.4	85.9	85.4	84.9	84.4
52	89.0	88.5	88.0	87.5	87.0	86.6	86.1	85.6	85.1	84.6
53	89.2	88.7	88.2	87.7	87.2	86.7	86.2	85.7	85.2	84.8
54	89.3	88.8	88.3	87.8	87.3	86.8	86.4	85.9	85.4	84.9
55	89.4	88.9	88.4	87.9	87.5	87.0	86.5	86.0	85.6	85.1
56	89.5	89.0	88.5	88.1	87.6	87.1	86.6	86.2	85.7	85.2
57	89.6	89.1	88.7	88.2	87.7	87.2	86.8	86.3	85.8	85.4

表 4a₂（续）

$t-t_w$ t	2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9	3.0
58	89.7	89.2	88.8	88.3	87.8	87.4	86.9	86.4	86.0	85.5
59	89.8	89.3	88.9	88.4	87.9	87.5	87.0	86.6	86.1	85.7
60	89.9	89.4	89.0	88.5	88.1	87.6	87.2	86.7	86.3	85.8
61	90.0	89.5	89.1	88.6	88.2	87.7	87.3	86.8	86.4	85.9
62	90.1	89.6	89.2	88.7	88.3	87.8	87.4	87.0	86.5	86.1
63	90.2	89.7	89.3	88.8	88.4	88.0	87.5	87.1	86.6	86.2
64	90.3	89.8	89.4	88.9	88.5	88.1	87.6	87.2	86.8	86.3
65	90.4	89.9	89.5	89.0	88.6	88.2	87.7	87.3	86.9	86.4
66	90.4	90.0	89.6	89.1	88.7	88.3	87.8	87.4	87.0	86.6
67	90.5	90.1	89.7	89.2	88.8	88.4	87.9	87.5	87.1	86.7
68	90.6	90.2	89.7	89.3	88.9	88.5	88.0	87.6	87.2	86.8
69	90.7	90.3	89.8	89.4	89.0	88.6	88.2	87.7	87.3	86.9
70	90.8	90.3	89.9	89.5	89.1	88.7	88.2	87.8	87.4	87.0
71	90.8	90.4	90.0	89.6	89.2	88.8	88.3	87.9	87.5	87.1
72	90.9	90.5	90.1	89.7	89.3	88.8	88.4	88.0	87.6	87.2
73	91.0	90.6	90.2	89.8	89.3	88.9	88.5	88.1	87.7	87.3
74	91.1	90.7	90.2	89.8	89.4	89.0	88.6	88.2	87.8	87.4
75	91.1	90.7	90.3	89.9	89.5	89.1	88.7	88.3	87.9	87.5
76	91.2	90.8	90.4	90.0	89.6	89.2	88.8	88.4	88.0	87.6
77	91.3	90.9	90.5	90.1	89.7	89.3	88.9	88.5	88.1	87.7
78	91.3	90.9	90.5	90.1	89.8	89.4	89.0	88.6	88.2	87.8
79	91.4	91.0	90.6	90.2	89.8	89.4	89.1	88.7	88.3	87.9
80	91.5	91.1	90.7	90.3	89.9	89.5	89.1	88.8	88.4	88.0
81	91.5	91.1	90.8	90.4	90.0	89.6	89.2	88.8	88.5	88.1
82	91.6	91.2	90.8	90.4	90.1	89.7	89.3	88.9	88.5	88.2
83	91.7	91.3	90.9	90.5	90.1	89.8	89.4	89.0	88.6	88.3
84	91.7	91.3	91.0	90.6	90.2	89.8	89.5	89.1	88.7	88.3
85	91.8	91.4	91.0	90.6	90.3	89.9	89.5	89.2	88.8	88.4
86	91.8	91.5	91.1	90.7	90.3	90.0	89.6	89.2	88.9	88.5
87	91.9	91.5	91.2	90.8	90.4	90.0	89.7	89.3	88.9	88.6
88	92.0	91.6	91.2	90.8	90.5	90.1	89.7	89.4	89.0	88.7
89	92.0	91.6	91.3	90.9	90.5	90.2	89.8	89.5	89.1	88.7
90	92.1	91.7	91.3	91.0	90.6	90.3	89.9	89.5	89.2	88.8
91	92.1	91.8	91.4	91.0	90.7	90.3	90.0	89.6	89.2	88.9
92	92.2	91.8	91.5	91.1	90.7	90.4	90.0	89.7	89.3	89.0
93	92.2	91.9	91.5	91.2	90.8	90.4	90.1	89.7	89.4	89.0
94	92.3	91.9	91.6	91.2	90.9	90.5	90.2	89.8	89.5	89.1
95	92.3	92.0	91.6	91.3	90.9	90.6	90.2	89.9	89.5	89.2
96	92.4	92.0	91.7	91.3	91.0	90.6	90.3	89.9	89.6	89.3
97	92.4	92.1	91.7	91.4	91.0	90.7	90.4	90.0	89.7	89.3
98	92.5	92.1	91.8	91.4	91.1	90.8	90.4	90.1	89.7	89.4
99	92.5	92.2	91.8	91.5	91.2	90.8	90.5	90.1	89.8	89.5
100	92.6	92.2	91.9	91.6	91.2	90.9	90.5	90.2	89.9	89.5

表 4a₂（续）

$t-t_w$ t	3.1	3.2	3.3	3.4	3.5	3.6	3.7	3.8	3.9	4.0
15	68.4	67.4	66.4	65.5	64.5	63.5	62.6	61.6	60.7	59.8
16	69.3	68.4	67.4	66.5	65.6	64.7	63.7	62.8	61.9	61.0
17	70.2	69.3	68.4	67.5	66.6	65.7	64.8	63.9	63.0	62.1
18	71.1	70.2	69.3	68.4	67.5	66.7	65.8	64.9	64.1	63.2
19	71.9	71.0	70.1	69.3	68.4	67.6	66.8	65.9	65.1	64.2
20	72.6	71.8	70.9	70.1	69.3	68.5	67.6	66.8	66.0	65.2
21	73.3	72.5	71.7	70.9	70.1	69.3	68.5	67.7	66.9	66.1
22	74.0	73.2	72.4	71.6	70.8	70.0	69.3	68.5	67.7	67.0
23	74.6	73.8	73.1	72.3	71.5	70.8	70.0	69.3	68.5	67.8
24	75.2	74.4	73.7	72.9	72.2	71.5	70.7	70.0	69.2	68.5
25	75.8	75.0	74.3	73.6	72.8	72.1	71.4	70.7	69.9	69.2
26	76.3	75.6	74.9	74.1	73.4	72.7	72.0	71.3	70.6	69.9
27	76.8	76.1	75.4	74.7	74.0	73.3	72.6	71.9	71.2	70.6
28	77.3	76.6	75.9	75.2	74.5	73.9	73.2	72.5	71.8	71.2
29	77.7	77.1	76.4	75.7	75.0	74.4	73.7	73.1	72.4	71.7
30	78.2	77.5	76.8	76.2	75.5	74.9	74.2	73.6	72.9	72.3
31	78.6	77.9	77.3	76.6	76.0	75.4	74.7	74.1	73.4	72.8
32	79.0	78.3	77.7	77.1	76.4	75.8	75.2	74.6	73.9	73.3
33	79.3	78.7	78.1	77.5	76.8	76.2	75.6	75.0	74.4	73.8
34	79.7	79.1	78.5	77.9	77.2	76.6	76.0	75.4	74.8	74.2
35	80.0	79.4	78.8	78.2	77.6	77.0	76.4	75.8	75.3	74.7
36	80.4	79.8	79.2	78.6	78.0	77.4	76.8	76.2	75.7	75.1
37	80.7	80.1	79.5	78.9	78.3	77.8	77.2	76.6	76.0	75.5
38	81.0	80.4	79.8	79.2	78.7	78.1	77.5	77.0	76.4	75.9
39	81.3	80.7	80.1	79.6	79.0	78.4	77.9	77.3	76.8	76.2
40	81.5	81.0	80.4	79.9	79.3	78.7	78.2	77.7	77.1	76.6
41	81.8	81.2	80.7	80.1	79.6	79.0	78.5	78.0	77.4	76.9
42	82.0	81.5	81.0	80.4	79.9	79.3	78.8	78.3	77.7	77.2
43	82.3	81.7	81.2	80.7	80.1	79.6	79.1	78.6	78.0	77.5
44	82.5	82.0	81.5	80.9	80.4	79.9	79.4	78.8	78.3	77.8
45	82.7	82.2	81.7	81.2	80.7	80.1	79.6	79.1	78.6	78.1
46	83.0	82.4	81.9	81.4	80.9	80.4	79.9	79.4	78.9	78.4
47	83.2	82.7	82.1	81.6	81.1	80.6	80.1	79.6	79.1	78.6
48	83.4	82.9	82.4	81.9	81.4	80.9	80.4	79.9	79.4	78.9
49	83.6	83.1	82.6	82.1	81.6	81.1	80.6	80.1	79.6	79.1
50	83.8	83.3	82.8	82.3	81.8	81.3	80.8	80.3	79.9	79.4
51	83.9	83.4	83.0	82.5	82.0	81.5	81.0	80.6	80.1	79.6
52	84.1	83.6	83.2	82.7	82.2	81.7	81.2	80.8	80.3	79.8
53	84.3	83.8	83.3	82.9	82.4	81.9	81.5	81.0	80.5	80.1
54	84.5	84.0	83.5	83.0	82.6	82.1	81.6	81.2	80.7	80.3
55	84.6	84.1	83.7	83.2	82.8	82.3	81.8	81.4	80.9	80.5
56	84.8	84.3	83.8	83.4	82.9	82.5	82.0	81.6	81.1	80.7
57	84.9	84.5	84.0	83.6	83.1	82.7	82.2	81.8	81.3	80.9

表 4a₂（续）

t \ $t-t_w$	3.1	3.2	3.3	3.4	3.5	3.6	3.7	3.8	3.9	4.0
58	85.1	84.6	84.2	83.7	83.3	82.8	82.4	81.9	81.5	81.1
59	85.2	84.8	84.3	83.9	83.4	83.0	82.5	82.1	81.7	81.2
60	85.4	84.9	84.5	84.0	83.6	83.2	82.7	82.3	81.8	81.4
61	85.5	85.1	84.6	84.2	83.7	83.3	82.9	82.4	82.0	81.6
62	85.6	85.2	84.8	84.3	83.9	83.5	83.0	82.6	82.2	81.8
63	85.8	85.3	84.9	84.5	84.0	83.6	83.2	82.8	82.3	81.9
64	85.9	85.5	85.0	84.6	84.2	83.8	83.3	82.9	82.5	82.1
65	86.0	85.6	85.2	84.7	84.3	83.9	83.5	83.1	82.7	82.2
66	86.1	85.7	85.3	84.9	84.5	84.0	83.6	83.2	82.8	82.4
67	86.3	85.8	85.4	85.0	84.6	84.2	83.8	83.4	83.0	82.5
68	86.4	86.0	85.5	85.1	84.7	84.3	83.9	83.5	83.1	82.7
69	86.5	86.1	85.7	85.3	84.9	84.4	84.0	83.6	83.2	82.8
70	86.6	86.2	85.8	85.4	85.0	84.6	84.2	83.8	83.4	83.0
71	86.7	86.3	85.9	85.5	85.1	84.7	84.3	83.9	83.5	83.1
72	86.8	86.4	86.0	85.6	85.2	84.8	84.4	84.0	83.6	83.2
73	86.9	86.5	86.1	85.7	85.3	84.9	84.6	84.2	83.8	83.4
74	87.0	86.6	86.2	85.8	85.5	85.1	84.7	84.3	83.9	83.5
75	87.1	86.7	86.3	86.0	85.6	85.2	84.8	84.4	84.0	83.6
76	87.2	86.8	86.4	86.1	85.7	85.3	84.9	84.5	84.1	83.8
77	87.3	86.9	86.6	86.2	85.8	85.4	85.0	84.6	84.3	83.9
78	87.4	87.0	86.7	86.3	85.9	85.5	85.1	84.8	84.4	84.0
79	87.5	87.1	86.8	86.4	86.0	85.6	85.2	84.9	84.5	84.1
80	87.6	87.2	86.9	86.5	86.1	85.7	85.4	85.0	84.6	84.2
81	87.7	87.3	87.0	86.6	86.2	85.8	85.5	85.1	84.7	84.4
82	87.8	87.4	87.0	86.7	86.3	85.9	85.6	85.2	84.8	84.5
83	87.9	87.5	87.1	86.8	86.4	86.0	85.7	85.3	84.9	84.6
84	88.0	87.6	87.2	86.9	86.5	86.1	85.8	85.4	85.1	84.7
85	88.1	87.7	87.3	87.0	86.6	86.2	85.9	85.5	85.2	84.8
86	88.1	87.8	87.4	87.1	86.7	86.3	86.0	85.6	85.3	84.9
87	88.2	87.9	87.5	87.1	86.8	86.4	86.1	85.7	85.4	85.0
88	88.3	87.9	87.6	87.2	86.9	86.5	86.2	85.8	85.5	85.1
89	88.4	88.0	87.7	87.3	87.0	86.6	86.3	85.9	85.6	85.2
90	88.5	88.1	87.8	87.4	87.1	86.7	86.4	86.0	85.7	85.3
91	88.5	88.2	87.8	87.5	87.1	86.8	86.4	86.1	85.8	85.4
92	88.6	88.3	87.9	87.6	87.2	86.9	86.5	86.2	85.9	85.5
93	88.7	88.3	88.0	87.7	87.3	87.0	86.6	86.3	86.0	85.6
94	88.8	88.4	88.1	87.7	87.4	87.1	86.7	86.4	86.0	85.7
95	88.8	88.5	88.2	87.8	87.5	87.1	86.8	86.5	86.1	85.8
96	88.9	88.6	88.2	87.9	87.6	87.2	86.9	86.6	86.2	85.9
97	89.0	88.7	88.3	88.0	87.6	87.3	87.0	86.6	86.3	86.0
98	89.1	88.7	88.4	88.1	87.7	87.4	87.1	86.7	86.4	86.1
99	89.1	88.8	88.5	88.1	87.8	87.5	87.1	86.8	86.5	86.2
100	89.2	88.9	88.5	88.2	87.9	87.6	87.2	86.9	86.6	86.3

表 4a₂（续）

$t-t_w$ t	4.1	4.2	4.3	4.4	4.5	4.6	4.7	4.8	4.9	5.0
15	58.8	57.9	56.9	56.0	55.1	54.2	53.2	52.3	51.4	50.5
16	60.1	59.2	58.3	57.4	56.5	55.6	54.7	53.8	52.9	52.0
17	61.3	60.4	59.5	58.6	57.8	56.9	56.0	55.2	54.3	53.4
18	62.4	61.5	60.7	59.8	59.0	58.1	57.3	56.4	55.6	54.8
19	63.4	62.6	61.8	60.9	60.1	59.3	58.5	57.7	56.8	56.0
20	64.4	63.6	62.8	62.0	61.2	60.4	59.6	58.8	58.0	57.2
21	65.3	64.5	63.7	63.0	62.2	61.4	60.6	59.9	59.1	58.3
22	66.2	65.4	64.7	63.9	63.1	62.4	61.6	60.9	60.1	59.4
23	67.0	66.3	65.5	64.8	64.0	63.3	62.6	61.8	61.1	60.4
24	67.8	67.1	66.3	65.6	64.9	64.2	63.5	62.7	62.0	61.3
25	68.5	67.8	67.1	66.4	65.7	65.0	64.3	63.6	62.9	62.2
26	69.2	68.5	67.8	67.1	66.5	65.8	65.1	64.4	63.7	63.1
27	69.9	69.2	68.5	67.8	67.2	66.5	65.8	65.2	64.5	63.9
28	70.5	69.8	69.2	68.5	67.9	67.2	66.5	65.9	65.2	64.6
29	71.1	70.4	69.8	69.1	68.5	67.9	67.2	66.6	66.0	65.3
30	71.7	71.0	70.4	69.7	69.1	68.5	67.9	67.2	66.6	66.0
31	72.2	71.6	70.9	70.3	69.7	69.1	68.5	67.9	67.2	66.6
32	72.7	72.1	71.5	70.9	70.3	69.7	69.0	68.4	67.9	67.3
33	73.2	72.6	72.0	71.4	70.8	70.2	69.6	69.0	68.4	67.8
34	73.6	73.1	72.5	71.9	71.3	70.7	70.1	69.5	69.0	68.4
35	74.1	73.5	72.9	72.3	71.8	71.2	70.6	70.1	69.5	68.9
36	74.5	73.9	73.4	72.8	72.2	71.7	71.1	70.5	70.0	69.4
37	74.9	74.3	73.8	73.2	72.7	72.1	71.6	71.0	70.5	69.9
38	75.3	74.7	74.2	73.6	73.1	72.5	72.0	71.5	70.9	70.4
39	75.7	75.1	74.6	74.0	73.5	73.0	72.4	71.9	71.4	70.8
40	76.0	75.5	74.9	74.4	73.9	73.4	72.8	72.3	71.8	71.3
41	76.4	75.8	75.3	74.8	74.3	73.7	73.2	72.7	72.2	71.7
42	76.7	76.2	75.6	75.1	74.6	74.1	73.6	73.1	72.6	72.1
43	77.0	76.5	76.0	75.5	75.0	74.4	73.9	73.4	72.9	72.4
44	77.3	76.8	76.3	75.8	75.3	74.8	74.3	73.8	73.3	72.8
45	77.6	77.1	76.6	76.1	75.6	75.1	74.6	74.1	73.6	73.1
46	77.9	77.4	76.9	76.4	75.9	75.4	74.9	74.4	74.0	73.5
47	78.2	77.7	77.2	76.7	76.2	75.7	75.2	74.8	74.3	73.8
48	78.4	77.9	77.4	77.0	76.5	76.0	75.5	75.1	74.6	74.1
49	78.7	78.2	77.7	77.2	76.8	76.3	75.8	75.3	74.9	74.4
50	78.9	78.4	78.0	77.5	77.0	76.6	76.1	75.6	75.2	74.7
51	79.1	78.7	78.2	77.7	77.3	76.8	76.4	75.9	75.4	75.0
52	79.4	78.9	78.5	78.0	77.5	77.1	76.6	76.2	75.7	75.3
53	79.6	79.1	78.7	78.2	77.8	77.3	76.9	76.4	76.0	75.5
54	79.8	79.4	78.9	78.5	78.0	77.6	77.1	76.7	76.2	75.8
55	80.0	79.6	79.1	78.7	78.2	77.8	77.3	76.9	76.5	76.0
56	80.2	79.8	79.3	78.9	78.5	78.0	77.6	77.1	76.7	76.3
57	80.4	80.0	79.5	79.1	78.7	78.2	77.8	77.4	76.9	76.5

表 4a₂（续）

t \ t−t_w	4.1	4.2	4.3	4.4	4.5	4.6	4.7	4.8	4.9	5.0
58	80.6	80.2	79.7	79.3	78.9	78.4	78.0	77.6	77.2	76.7
59	80.8	80.4	79.9	79.5	79.1	78.7	78.2	77.8	77.4	77.0
60	81.0	80.6	80.1	79.7	79.3	78.9	78.4	78.0	77.6	77.2
61	81.2	80.7	80.3	79.9	79.5	79.1	78.6	78.2	77.8	77.4
62	81.3	80.9	80.5	80.1	79.7	79.2	78.8	78.4	78.0	77.6
63	81.5	81.1	80.7	80.3	79.8	79.4	79.0	78.6	78.2	77.8
64	81.7	81.3	80.8	80.4	80.0	79.6	79.2	78.8	78.4	78.0
65	81.8	81.4	81.0	80.6	80.2	79.8	79.4	79.0	78.6	78.2
66	82.0	81.6	81.2	80.8	80.4	80.0	79.6	79.2	78.8	78.4
67	82.1	81.7	81.3	80.9	80.5	80.1	79.7	79.3	78.9	78.6
68	82.3	81.9	81.5	81.1	80.7	80.3	79.9	79.5	79.1	78.7
69	82.4	82.0	81.6	81.2	80.9	80.5	80.1	79.7	79.3	78.9
70	82.6	82.2	81.8	81.4	81.0	80.6	80.2	79.8	79.5	79.1
71	82.7	82.3	81.9	81.6	81.2	80.8	80.4	80.0	79.6	79.2
72	82.9	82.5	82.1	81.7	81.3	80.9	80.6	80.2	79.8	79.4
73	83.0	82.6	82.2	81.8	81.5	81.1	80.7	80.3	80.0	79.6
74	83.1	82.7	82.4	82.0	81.6	81.2	80.9	80.5	80.1	79.7
75	83.3	82.9	82.5	82.1	81.7	81.4	81.0	80.6	80.3	79.9
76	83.4	83.0	82.6	82.3	81.9	81.5	81.1	80.8	80.4	80.0
77	83.5	83.1	82.8	82.4	82.0	81.7	81.3	80.9	80.6	80.2
78	83.6	83.3	82.9	82.5	82.2	81.8	81.4	81.1	80.7	80.3
79	83.8	83.4	83.0	82.7	82.3	81.9	81.6	81.2	80.8	80.5
80	83.9	83.5	83.1	82.8	82.4	82.1	81.7	81.3	81.0	80.6
81	84.0	83.6	83.3	82.9	82.5	82.2	81.8	81.5	81.1	80.8
82	84.1	83.7	83.4	83.0	82.7	82.3	82.0	81.6	81.3	80.9
83	84.2	83.9	83.5	83.2	82.8	82.4	82.1	81.7	81.4	81.0
84	84.3	84.0	83.6	83.3	82.9	82.6	82.2	81.9	81.5	81.2
85	84.4	84.1	83.7	83.4	83.0	82.7	82.3	82.0	81.6	81.3
86	84.6	84.2	83.9	83.5	83.2	82.8	82.5	82.1	81.8	81.4
87	84.7	84.3	84.0	83.6	83.3	82.9	82.6	82.2	81.9	81.6
88	84.8	84.4	84.1	83.7	83.4	83.0	82.7	82.4	82.0	81.7
89	84.9	84.5	84.2	83.8	83.5	83.2	82.8	82.5	82.1	81.8
90	85.0	84.6	84.3	83.9	83.6	83.3	82.9	82.6	82.3	81.9
91	85.1	84.7	84.4	84.1	83.7	83.4	83.0	82.7	82.4	82.0
92	85.2	84.8	84.5	84.2	83.8	83.5	83.2	82.8	82.5	82.2
93	85.3	84.9	84.6	84.3	83.9	83.6	83.3	82.9	82.6	82.3
94	85.4	85.0	84.7	84.4	84.0	83.7	83.4	83.1	82.7	82.4
95	85.5	85.1	84.8	84.5	84.1	83.8	83.5	83.2	82.8	82.5
96	85.6	85.2	84.9	84.6	84.2	83.9	83.6	83.3	82.9	82.6
97	85.7	85.3	85.0	84.7	84.3	84.0	83.7	83.4	83.1	82.7
98	85.7	85.4	85.1	84.8	84.4	84.1	83.8	83.5	83.2	82.8
99	85.8	85.5	85.2	84.9	84.5	84.2	83.9	83.6	83.3	83.0
100	85.9	85.6	85.3	85.0	84.6	84.3	84.0	83.7	83.4	83.1

表 4a₂（续）

$t-t_w$ t	5.2	5.4	5.6	5.8	6.0	6.2	6.4	6.6	6.8	7.0
15	48.7	46.9	45.1	43.3	41.5	39.7	38.0	36.2	34.5	32.8
16	50.2	48.5	46.8	45.0	43.3	41.6	39.9	38.2	36.5	34.9
17	51.7	50.0	48.3	46.7	45.0	43.4	41.7	40.1	38.5	36.9
18	53.1	51.5	49.8	48.2	46.6	45.0	43.4	41.8	40.3	38.7
19	54.4	52.8	51.3	49.7	48.1	46.6	45.0	43.5	42.0	40.4
20	55.7	54.1	52.6	51.0	49.5	48.0	46.5	45.0	43.5	42.1
21	56.8	55.3	53.8	52.3	50.9	49.4	47.9	46.5	45.0	43.6
22	57.9	56.5	55.0	53.5	52.1	50.7	49.3	47.8	46.4	45.1
23	59.0	57.5	56.1	54.7	53.3	51.9	50.5	49.1	47.8	46.4
24	59.9	58.5	57.1	55.8	54.4	53.0	51.7	50.4	49.0	47.7
25	60.8	59.5	58.1	56.8	55.5	54.1	52.8	51.5	50.2	48.9
26	61.7	60.4	59.1	57.8	56.4	55.2	53.9	52.6	51.3	50.1
27	62.5	61.2	59.9	58.7	57.4	56.1	54.9	53.6	52.4	51.2
28	63.3	62.0	60.8	59.5	58.3	57.0	55.8	54.6	53.4	52.2
29	64.1	62.8	61.6	60.3	59.1	57.9	56.7	55.5	54.3	53.2
30	64.8	63.5	62.3	61.1	59.9	58.7	57.6	56.4	55.2	54.1
31	65.4	64.2	63.0	61.9	60.7	59.5	58.4	57.2	56.1	55.0
32	66.1	64.9	63.7	62.6	61.4	60.3	59.1	58.0	56.9	55.8
33	66.7	65.5	64.4	63.2	62.1	61.0	59.9	58.8	57.7	56.6
34	67.3	66.1	65.0	63.9	62.8	61.7	60.6	59.5	58.4	57.4
35	67.8	66.7	65.6	64.5	63.4	62.3	61.2	60.2	59.1	58.1
36	68.3	67.2	66.1	65.1	64.0	62.9	61.9	60.8	59.8	58.8
37	68.8	67.8	66.7	65.6	64.6	63.5	62.5	61.5	60.4	59.4
38	69.3	68.3	67.2	66.2	65.1	64.1	63.1	62.1	61.0	60.1
39	69.8	68.7	67.7	66.7	65.6	64.6	63.6	62.6	61.6	60.7
40	70.2	69.2	68.2	67.1	66.1	65.1	64.2	63.2	62.2	61.2
41	70.6	69.6	68.6	67.6	66.6	65.6	64.7	63.7	62.7	61.8
42	71.0	70.0	69.0	68.1	67.1	66.1	65.2	64.2	63.2	62.3
43	71.4	70.4	69.5	68.5	67.5	66.6	65.6	64.7	63.7	62.8
44	71.8	70.8	69.9	68.9	68.0	67.0	66.1	65.1	64.2	63.3
45	72.2	71.2	70.3	69.3	68.4	67.4	66.5	65.6	64.7	63.8
46	72.5	71.6	70.6	69.7	68.8	67.8	66.9	66.0	65.1	64.2
47	72.9	71.9	71.0	70.1	69.1	68.2	67.3	66.4	65.5	64.7
48	73.2	72.3	71.3	70.4	69.5	68.6	67.7	66.8	66.0	65.1
49	73.5	72.6	71.7	70.8	69.9	69.0	68.1	67.2	66.3	65.5
50	73.8	72.9	72.0	71.1	70.2	69.3	68.5	67.6	66.7	65.9
51	74.1	73.2	72.3	71.4	70.5	69.7	68.8	67.9	67.1	66.3
52	74.4	73.5	72.6	71.7	70.9	70.0	69.1	68.3	67.5	66.6
53	74.6	73.8	72.9	72.0	71.2	70.3	69.5	68.6	67.8	67.0
54	74.9	74.0	73.2	72.3	71.5	70.6	69.8	69.0	68.1	67.3
55	75.2	74.3	73.5	72.6	71.8	70.9	70.1	69.3	68.5	67.7
56	75.4	74.6	73.7	72.9	72.0	71.2	70.4	69.6	68.8	68.0
57	75.7	74.8	74.0	73.1	72.3	71.5	70.7	69.9	69.1	68.3

表 4a$_2$（续）

$t-t_n$ t	5.2	5.4	5.6	5.8	6.0	6.2	6.4	6.6	6.8	7.0
58	75.9	75.1	74.2	73.4	72.6	71.8	71.0	70.2	69.4	68.6
59	76.1	75.3	74.5	73.7	72.9	72.0	71.2	70.5	69.7	68.9
60	76.4	75.5	74.7	73.9	73.1	72.3	71.5	70.7	70.0	69.2
61	76.6	75.8	74.9	74.1	73.4	72.6	71.8	71.0	70.2	69.5
62	76.8	76.0	75.2	74.4	73.6	72.8	72.0	71.3	70.5	69.7
63	77.0	76.2	75.4	74.6	73.8	73.0	72.3	71.5	70.8	70.0
64	77.2	76.4	75.6	74.8	74.1	73.3	72.5	71.8	71.0	70.3
65	77.4	76.6	75.8	75.0	74.3	73.5	72.8	72.0	71.3	70.5
66	77.6	76.8	76.0	75.3	74.5	73.7	73.0	72.2	71.5	70.8
67	77.8	77.0	76.2	75.5	74.7	74.0	73.2	72.5	71.7	71.0
68	78.0	77.2	76.4	75.7	74.9	74.2	73.4	72.7	72.0	71.2
69	78.1	77.4	76.6	75.9	75.1	74.4	73.6	72.9	72.2	71.5
70	78.3	77.6	76.8	76.1	75.3	74.6	73.9	73.1	72.4	71.7
71	78.5	77.7	77.0	76.3	75.5	74.8	74.1	73.3	72.6	71.9
72	78.7	77.9	77.2	76.4	75.7	75.0	74.3	73.6	72.8	72.1
73	78.8	78.1	77.4	76.6	75.9	75.2	74.5	73.8	73.1	72.4
74	79.0	78.3	77.5	76.8	76.1	75.4	74.7	74.0	73.3	72.6
75	79.2	78.4	77.7	77.0	76.3	75.6	74.9	74.2	73.5	72.8
76	79.3	78.6	77.9	77.2	76.4	75.7	75.0	74.3	73.7	73.0
77	79.5	78.7	78.0	77.3	76.6	75.9	75.2	74.5	73.8	73.2
78	79.6	78.9	78.2	77.5	76.8	76.1	75.4	74.7	74.0	73.4
79	79.8	79.1	78.4	77.7	77.0	76.3	75.6	74.9	74.2	73.6
80	79.9	79.2	78.5	77.8	77.1	76.4	75.8	75.1	74.4	73.7
81	80.1	79.4	78.7	78.0	77.3	76.6	75.9	75.3	74.6	73.9
82	80.2	79.5	78.8	78.1	77.4	76.8	76.1	75.4	74.8	74.1
83	80.3	79.7	79.0	78.3	77.6	76.9	76.3	75.6	74.9	74.3
84	80.5	79.8	79.1	78.4	77.8	77.1	76.4	75.8	75.1	74.5
85	80.6	79.9	79.3	78.6	77.9	77.2	76.6	75.9	75.3	74.6
86	80.7	80.1	79.4	78.7	78.1	77.4	76.7	76.1	75.4	74.8
87	80.9	80.2	79.5	78.9	78.2	77.6	76.9	76.3	75.6	75.0
88	81.0	80.3	79.7	79.0	78.4	77.7	77.1	76.4	75.8	75.1
89	81.1	80.5	79.8	79.2	78.5	77.9	77.2	76.6	75.9	75.3
90	81.3	80.6	79.9	79.3	78.6	78.0	77.4	76.7	76.1	75.5
91	81.4	80.7	80.1	79.4	78.8	78.1	77.5	76.9	76.2	75.6
92	81.5	80.9	80.2	79.6	78.9	78.3	77.7	77.0	76.4	75.8
93	81.6	81.0	80.3	79.7	79.1	78.4	77.8	77.2	76.5	75.9
94	81.7	81.1	80.5	79.8	79.2	78.6	77.9	77.3	76.7	76.1
95	81.9	81.2	80.6	80.0	79.3	78.7	78.1	77.5	76.8	76.2
96	82.0	81.3	80.7	80.1	79.5	78.8	78.2	77.6	77.0	76.4
97	82.1	81.5	80.8	80.2	79.6	79.0	78.4	77.7	77.1	76.5
98	82.2	81.6	81.0	80.3	79.7	79.1	78.5	77.9	77.3	76.7
99	82.3	81.7	81.1	80.5	79.8	79.2	78.6	78.0	77.4	76.8
100	82.4	81.8	81.2	80.6	80.0	79.4	78.8	78.1	77.6	77.0

表 4a₂（续）

$t-t_w$ / t	7.2	7.4	7.6	7.8	8.0	8.2	8.4	8.6	8.8	9.0
15	31.1	29.4	27.7	26.0	24.3	22.7	21.0	19.4	17.7	16.1
16	33.2	31.6	29.9	28.3	26.7	25.1	23.5	21.9	20.3	18.8
17	35.2	33.7	32.1	30.5	28.9	27.4	25.8	24.3	22.8	21.3
18	37.1	35.6	34.1	32.6	31.0	29.5	28.0	26.6	25.1	23.6
19	38.9	37.4	36.0	34.5	33.0	31.6	30.1	28.7	27.2	25.8
20	40.6	39.2	37.7	36.3	34.9	33.4	32.0	30.6	29.3	27.9
21	42.2	40.8	39.4	38.0	36.6	35.2	33.9	32.5	31.2	29.8
22	43.7	42.3	40.9	39.6	38.2	36.9	35.6	34.3	33.0	31.7
23	45.1	43.7	42.4	41.1	39.8	38.5	37.2	35.9	34.6	33.4
24	46.4	45.1	43.8	42.5	41.2	40.0	38.7	37.5	36.2	35.0
25	47.6	46.4	45.1	43.9	42.6	41.4	40.2	38.9	37.7	36.5
26	48.8	47.6	46.4	45.1	43.9	42.7	41.5	40.3	39.2	38.0
27	49.9	48.7	47.5	46.3	45.1	44.0	42.8	41.6	40.5	39.3
28	51.0	49.8	48.6	47.5	46.3	45.2	44.0	42.9	41.8	40.6
29	52.0	50.8	49.7	48.5	47.4	46.3	45.2	44.1	43.0	41.9
30	52.9	51.8	50.7	49.6	48.5	47.4	46.3	45.2	44.1	43.0
31	53.8	52.7	51.6	50.5	49.5	48.4	47.3	46.2	45.2	44.1
32	54.7	53.6	52.5	51.5	50.4	49.3	48.3	47.2	46.2	45.2
33	55.5	54.5	53.4	52.3	51.3	50.3	49.2	48.2	47.2	46.2
34	56.3	55.2	54.2	53.2	52.1	51.1	50.1	49.1	48.1	47.1
35	57.0	56.0	55.0	54.0	53.0	52.0	51.0	50.0	49.0	48.0
36	57.7	56.7	55.7	54.7	53.7	52.7	51.8	50.8	49.8	48.9
37	58.4	57.4	56.4	55.4	54.5	53.5	52.5	51.6	50.6	49.7
38	59.1	58.1	57.1	56.1	55.2	54.2	53.3	52.3	51.4	50.5
39	59.7	58.7	57.7	56.8	55.9	54.9	54.0	53.1	52.1	51.2
40	60.3	59.3	58.4	57.4	56.5	55.6	54.7	53.7	52.8	51.9
41	60.8	59.9	59.0	58.0	57.1	56.2	55.3	54.4	53.5	52.6
42	61.4	60.4	59.5	58.6	57.7	56.8	55.9	55.0	54.2	53.3
43	61.9	61.0	60.1	59.2	58.3	57.4	56.5	55.6	54.8	53.9
44	62.4	61.5	60.6	59.7	58.8	58.0	57.1	56.2	55.4	54.5
45	62.9	62.0	61.1	60.2	59.4	58.5	57.6	56.8	55.9	55.1
46	63.3	62.5	61.6	60.7	59.9	59.0	58.2	57.3	56.5	55.7
47	63.8	62.9	62.1	61.2	60.3	59.5	58.7	57.8	57.0	56.2
48	64.2	63.4	62.5	61.7	60.8	60.0	59.2	58.3	57.5	56.7
49	64.6	63.8	62.9	62.1	61.3	60.4	59.6	58.8	58.0	57.2
50	65.0	64.2	63.4	62.5	61.7	60.9	60.1	59.3	58.5	57.7
51	65.4	64.6	63.8	62.9	62.1	61.3	60.5	59.7	58.9	58.2
52	65.8	65.0	64.2	63.3	62.5	61.7	61.0	60.2	59.4	58.6
53	66.2	65.3	64.5	63.7	62.9	62.1	61.4	60.6	59.8	59.1
54	66.5	65.7	64.9	64.1	63.3	62.5	61.8	61.0	60.2	59.5
55	66.8	66.0	65.3	64.5	63.7	62.9	62.2	61.4	60.6	59.9
56	67.2	66.4	65.6	64.8	64.1	63.3	62.5	61.8	61.0	60.3
57	67.5	66.7	65.9	65.2	64.4	63.6	62.9	62.1	61.4	60.7

表 4a₂（续）

t ⟍ $t-t_w$	7.2	7.4	7.6	7.8	8.0	8.2	8.4	8.6	8.8	9.0
58	67.8	67.0	66.3	65.5	64.7	64.0	63.2	62.5	61.8	61.0
59	68.1	67.3	66.6	65.8	65.1	64.3	63.6	62.9	62.1	61.4
60	68.4	67.6	66.9	66.1	65.4	64.7	63.9	63.2	62.5	61.8
61	68.7	67.9	67.2	66.4	65.7	65.0	64.2	63.5	62.8	62.1
62	69.0	68.2	67.5	66.7	66.0	65.3	64.6	63.8	63.1	62.4
63	69.2	68.5	67.8	67.0	66.3	65.6	64.9	64.2	63.5	62.8
64	69.5	68.8	68.0	67.3	66.6	65.9	65.2	64.5	63.8	63.1
65	69.8	69.0	68.3	67.6	66.9	66.2	65.5	64.8	64.1	63.4
66	70.0	69.3	68.6	67.9	67.2	66.5	65.8	65.1	64.4	63.7
67	70.3	69.6	68.8	68.1	67.4	66.7	66.0	65.3	64.7	64.0
68	70.5	69.8	69.1	68.4	67.7	67.0	66.3	65.6	64.9	64.3
69	70.8	70.0	69.3	68.6	67.9	67.3	66.6	65.9	65.2	64.6
70	71.0	70.3	69.6	68.9	68.2	67.5	66.8	66.2	65.5	64.8
71	71.2	70.5	69.8	69.1	68.4	67.8	67.1	66.4	65.8	65.1
72	71.4	70.7	70.1	69.4	68.7	68.0	67.3	66.7	66.0	65.4
73	71.7	71.0	70.3	69.6	68.9	68.3	67.6	66.9	66.3	65.6
74	71.9	71.2	70.5	69.8	69.2	68.5	67.8	67.2	66.5	65.9
75	72.1	71.4	70.7	70.1	69.4	68.7	68.1	67.4	66.8	66.1
76	72.3	71.6	70.9	70.3	69.6	69.0	68.3	67.7	67.0	66.4
77	72.5	71.8	71.2	70.5	69.8	69.2	68.5	67.9	67.2	66.6
78	72.7	72.0	71.4	70.7	70.0	69.4	68.8	68.1	67.5	66.8
79	72.9	72.2	71.6	70.9	70.3	69.6	69.0	68.3	67.7	67.1
80	73.1	72.4	71.8	71.1	70.5	69.8	69.2	68.6	67.9	67.3
81	73.3	72.6	72.0	71.3	70.7	70.0	69.4	68.8	68.2	67.5
82	73.5	72.8	72.2	71.5	70.9	70.2	69.6	69.0	68.4	67.8
83	73.6	73.0	72.3	71.7	71.1	70.4	69.8	69.2	68.6	68.0
84	73.8	73.2	72.5	71.9	71.3	70.6	70.0	69.4	68.8	68.2
85	74.0	73.4	72.7	72.1	71.5	70.8	70.2	69.6	69.0	68.4
86	74.2	73.5	72.9	72.3	71.7	71.0	70.4	69.8	69.2	68.6
87	74.3	73.7	73.1	72.5	71.8	71.2	70.6	70.0	69.4	68.8
88	74.5	73.9	73.3	72.6	72.0	71.4	70.8	70.2	69.6	69.0
89	74.7	74.0	73.4	72.8	72.2	71.6	71.0	70.4	69.8	69.2
90	74.8	74.2	73.6	73.0	72.4	71.8	71.2	70.6	70.0	69.4
91	75.0	74.4	73.8	73.2	72.6	72.0	71.4	70.8	70.2	69.6
92	75.2	74.5	73.9	73.3	72.7	72.1	71.5	70.9	70.4	69.8
93	75.3	74.7	74.1	73.5	72.9	72.3	71.7	71.1	70.5	70.0
94	75.5	74.9	74.3	73.7	73.1	72.5	71.9	71.3	70.7	70.2
95	75.6	75.0	74.4	73.8	73.2	72.7	72.1	71.5	70.9	70.3
96	75.8	75.2	74.6	74.0	73.4	72.8	72.2	71.7	71.1	70.5
97	75.9	75.3	74.7	74.2	73.6	73.0	72.4	71.8	71.3	70.7
98	76.1	75.5	74.9	74.3	73.7	73.1	72.6	72.0	71.4	70.9
99	76.2	75.6	75.0	74.5	73.9	73.3	72.7	72.2	71.6	71.0
100	76.4	75.8	75.2	74.6	74.0	73.5	72.9	72.3	71.8	71.2

表 4a₂（续）

$t-t_w$ \ t	9.2	9.4	9.6	9.8	10.0	10.2	10.4	10.6	10.8	11.0
15	14.5	12.9	11.3	9.7	8.1	6.5	5.0	3.4	1.9	0.4
16	17.2	15.7	14.1	12.6	11.1	9.5	8.0	6.5	5.1	3.6
17	19.8	18.3	16.8	15.3	13.8	12.4	10.9	9.5	8.0	6.6
18	22.2	20.7	19.3	17.8	16.4	15.0	13.6	12.2	10.8	9.4
19	24.4	23.0	21.6	20.2	18.8	17.5	16.1	14.8	13.4	12.1
20	26.5	25.2	23.8	22.5	21.1	19.8	18.5	17.2	15.9	14.6
21	28.5	27.2	25.9	24.6	23.3	22.0	20.7	19.4	18.2	16.9
22	30.4	29.1	27.8	26.5	25.3	24.0	22.8	21.6	20.3	19.1
23	32.1	30.9	29.6	28.4	27.2	26.0	24.8	23.6	22.4	21.2
24	33.8	32.6	31.4	30.2	29.0	27.8	26.6	25.4	24.3	23.1
25	35.3	34.2	33.0	31.8	30.7	29.5	28.4	27.2	26.1	25.0
26	36.8	35.7	34.5	33.4	32.2	31.1	30.0	28.9	27.8	26.7
27	38.2	37.1	36.0	34.9	33.7	32.7	31.6	30.5	29.4	28.3
28	39.5	38.4	37.3	36.3	35.2	34.1	33.0	32.0	30.9	29.9
29	40.8	39.7	38.6	37.6	36.5	35.5	34.4	33.4	32.4	31.4
30	42.0	40.9	39.9	38.8	37.8	36.8	35.8	34.7	33.7	32.7
31	43.1	42.1	41.0	40.0	39.0	38.0	37.0	36.0	35.0	34.1
32	44.2	43.1	42.1	41.1	40.2	39.2	38.2	37.2	36.3	35.3
33	45.2	44.2	43.2	42.2	41.2	40.3	39.3	38.4	37.4	36.5
34	46.1	45.2	44.2	43.2	42.3	41.3	40.4	39.5	38.5	37.6
35	47.1	46.1	45.2	44.2	43.3	42.3	41.4	40.5	39.6	38.7
36	47.9	47.0	46.1	45.1	44.2	43.3	42.4	41.5	40.6	39.7
37	48.8	47.8	46.9	46.0	45.1	44.2	43.3	42.4	41.6	40.7
38	49.6	48.7	47.8	46.9	46.0	45.1	44.2	43.3	42.5	41.6
39	50.3	49.4	48.5	47.7	46.8	45.9	45.1	44.2	43.3	42.5
40	51.1	50.2	49.3	48.4	47.6	46.7	45.9	45.0	44.2	43.4
41	51.8	50.9	50.0	49.2	48.3	47.5	46.6	45.8	45.0	44.2
42	52.4	51.6	50.7	49.9	49.0	48.2	47.4	46.6	45.7	44.9
43	53.1	52.2	51.4	50.5	49.7	48.9	48.1	47.3	46.5	45.7
44	53.7	52.8	52.0	51.2	50.4	49.6	48.8	48.0	47.2	46.4
45	54.3	53.4	52.6	51.8	51.0	50.2	49.4	48.6	47.9	47.1
46	54.8	54.0	53.2	52.4	51.6	50.8	50.1	49.3	48.5	47.7
47	55.4	54.6	53.8	53.0	52.2	51.4	50.7	49.9	49.1	48.4
48	55.9	55.1	54.3	53.6	52.8	52.0	51.2	50.5	49.7	49.0
49	56.4	55.6	54.9	54.1	53.3	52.6	51.8	51.1	50.3	49.6
50	56.9	56.1	55.4	54.6	53.8	53.1	52.3	51.6	50.9	50.1
51	57.4	56.6	55.9	55.1	54.4	53.6	52.9	52.1	51.4	50.7
52	57.8	57.1	56.3	55.6	54.8	54.1	53.4	52.6	51.9	51.2
53	58.3	57.5	56.8	56.1	55.3	54.6	53.9	53.1	52.4	51.7
54	58.7	58.0	57.2	56.5	55.8	55.0	54.3	53.6	52.9	52.2
55	59.1	58.4	57.7	56.9	56.2	55.5	54.8	54.1	53.4	52.7
56	59.5	58.8	58.1	57.4	56.6	55.9	55.2	54.5	53.8	53.2
57	59.9	59.2	58.5	57.8	57.1	56.4	55.7	55.0	54.3	53.6

表 4a₂（续）

$t - t_w$ / t	9.2	9.4	9.6	9.8	10.0	10.2	10.4	10.6	10.8	11.0
58	60.3	59.6	58.9	58.2	57.5	56.8	56.1	55.4	54.7	54.0
59	60.7	60.0	59.3	58.6	57.9	57.2	56.5	55.8	55.1	54.5
60	61.0	60.3	59.6	58.9	58.2	57.6	56.9	56.2	55.5	54.9
61	61.4	60.7	60.0	59.3	58.6	57.9	57.3	56.6	55.9	55.3
62	61.7	61.0	60.3	59.7	59.0	58.3	57.6	57.0	56.3	55.7
63	62.1	61.4	60.7	60.0	59.3	58.7	58.0	57.3	56.7	56.0
64	62.4	61.7	61.0	60.3	59.7	59.0	58.4	57.7	57.0	56.4
65	62.7	62.0	61.3	60.7	60.0	59.4	58.7	58.0	57.4	56.8
66	63.0	62.3	61.7	61.0	60.3	59.7	59.0	58.4	57.7	57.1
67	63.3	62.6	62.0	61.3	60.7	60.0	59.4	58.7	58.1	57.5
68	63.6	62.9	62.3	61.6	61.0	60.3	59.7	59.0	58.4	57.8
69	63.9	63.2	62.6	61.9	61.3	60.6	60.0	59.4	58.7	58.1
70	64.2	63.5	62.9	62.2	61.6	60.9	60.3	59.7	59.1	58.4
71	64.4	63.8	63.1	62.5	61.9	61.2	60.6	60.0	59.4	58.8
72	64.7	64.1	63.4	62.8	62.2	61.5	60.9	60.3	59.7	59.1
73	65.0	64.3	63.7	63.1	62.4	61.8	61.2	60.6	60.0	59.4
74	65.2	64.6	64.0	63.3	62.7	62.1	61.5	60.9	60.3	59.7
75	65.5	64.9	64.2	63.6	63.0	62.4	61.8	61.1	60.5	59.9
76	65.7	65.1	64.5	63.9	63.2	62.6	62.0	61.4	60.8	60.2
77	66.0	65.4	64.7	64.1	63.5	62.9	62.3	61.7	61.1	60.5
78	66.2	65.6	65.0	64.4	63.8	63.2	62.6	62.0	61.4	60.8
79	66.5	65.8	65.2	64.6	64.0	63.4	62.8	62.2	61.6	61.0
80	66.7	66.1	65.5	64.9	64.3	63.7	63.1	62.5	61.9	61.3
81	66.9	66.3	65.7	65.1	64.5	63.9	63.3	62.7	62.1	61.6
82	67.1	66.5	65.9	65.3	64.7	64.1	63.6	63.0	62.4	61.8
83	67.4	66.8	66.2	65.6	65.0	64.4	63.8	63.2	62.6	62.1
84	67.6	67.0	66.4	65.8	65.2	64.6	64.0	63.5	62.9	62.3
85	67.8	67.2	66.6	66.0	65.4	64.8	64.3	63.7	63.1	62.6
86	68.0	67.4	66.8	66.2	65.6	65.1	64.5	63.9	63.4	62.8
87	68.2	67.6	67.0	66.4	65.9	65.3	64.7	64.2	63.6	63.0
88	68.4	67.8	67.2	66.7	66.1	65.5	64.9	64.4	63.8	63.3
89	68.6	68.0	67.4	66.9	66.3	65.7	65.2	64.6	64.0	63.5
90	68.8	68.2	67.7	67.1	66.5	65.9	65.4	64.8	64.3	63.7
91	69.0	68.4	67.9	67.3	66.7	66.2	65.6	65.0	64.5	63.9
92	69.2	68.6	68.1	67.5	66.9	66.4	65.8	65.3	64.7	64.2
93	69.4	68.8	68.3	67.7	67.1	66.6	66.0	65.5	64.9	64.4
94	69.6	69.0	68.4	67.9	67.3	66.8	66.2	65.7	65.1	64.6
95	69.8	69.2	68.6	68.1	67.5	67.0	66.4	65.9	65.3	64.8
96	69.9	69.4	68.8	68.3	67.7	67.2	66.6	66.1	65.5	65.0
97	70.1	69.6	69.0	68.5	67.9	67.4	66.8	66.3	65.7	65.2
98	70.3	69.8	69.2	68.6	68.1	67.6	67.0	66.5	65.9	65.4
99	70.5	69.9	69.4	68.8	68.3	67.7	67.2	66.7	66.1	65.6
100	70.7	70.1	69.6	69.0	68.5	67.9	67.4	66.9	66.3	65.8

表 4a₂（续）

$t-t_w$ / t	11.5	12.0	12.5	13.5	13.5	14.0	14.5	15.0	15.5	16.0
15										
16										
17	3.1									
18	6.0	2.6								
19	8.8	5.5	2.3							
20	11.4	8.2	5.1	2.0						
21	13.8	10.7	7.7	4.8	1.8					
22	16.1	13.1	10.2	7.3	4.5	1.7				
23	18.2	15.4	12.5	9.7	7.0	4.3	1.6			
24	20.3	17.5	14.7	12.0	9.3	6.7	4.1	1.6		
25	22.2	19.5	16.8	14.1	11.6	9.0	6.5	4.0	1.6	−0.8
26	24.0	21.3	18.7	16.2	13.6	11.1	8.7	6.3	3.9	1.6
27	25.7	23.1	20.6	18.1	15.6	13.2	10.8	8.5	6.1	3.9
28	27.3	24.8	22.3	19.9	17.5	15.1	12.8	10.5	8.2	6.0
29	28.8	26.4	23.9	21.6	19.2	16.9	14.6	12.4	10.2	8.1
30	30.3	27.9	25.5	23.2	20.9	18.6	16.4	14.2	12.1	10.0
31	31.7	29.3	27.0	24.7	22.5	20.2	18.1	16.0	13.9	11.8
32	33.0	30.6	28.4	26.1	23.9	21.8	19.7	17.6	15.5	13.5
33	34.2	31.9	29.7	27.5	25.4	23.2	21.2	19.1	17.1	15.2
34	35.4	33.1	30.9	28.8	26.7	24.6	22.6	20.6	18.6	16.7
35	36.5	34.3	32.1	30.0	28.0	25.9	24.0	22.0	20.1	18.2
36	37.5	35.4	33.3	31.2	29.2	27.2	25.2	23.3	21.4	19.6
37	38.5	36.4	34.4	32.3	30.3	28.4	26.5	24.6	22.7	20.9
38	39.5	37.4	35.4	33.4	31.4	29.5	27.6	25.8	24.0	22.2
39	40.4	38.4	36.4	34.4	32.5	30.6	28.7	26.9	25.1	23.4
40	41.3	39.3	37.3	35.4	33.5	31.6	29.8	28.0	26.3	24.5
41	42.1	40.2	38.2	36.3	34.5	32.6	30.8	29.1	27.3	25.6
42	43.0	41.0	39.1	37.2	35.4	33.6	31.8	30.0	28.3	26.7
43	43.7	41.8	39.9	38.1	36.2	34.5	32.7	31.0	29.3	27.7
44	44.5	42.6	40.7	38.9	37.1	35.3	33.6	31.9	30.3	28.6
45	45.2	43.3	41.5	39.7	37.9	36.2	34.5	32.8	31.1	29.5
46	45.9	44.0	42.2	40.4	38.7	37.0	35.3	33.6	32.0	30.4
47	46.5	44.7	42.9	41.1	39.4	37.7	36.1	34.4	32.8	31.3
48	47.1	45.3	43.6	41.8	40.1	38.4	36.8	35.2	33.6	32.1
49	47.7	46.0	44.2	42.5	40.8	39.2	37.5	35.9	34.4	32.9
50	48.3	46.6	44.8	43.1	41.5	39.8	38.2	36.7	35.1	33.6
51	48.9	47.2	45.4	43.8	42.1	40.5	38.9	37.3	35.8	34.3
52	49.4	47.7	46.0	44.4	42.7	41.1	39.5	38.0	36.5	35.0
53	50.0	48.3	46.6	44.9	43.3	41.7	40.2	38.6	37.2	35.7
54	50.5	48.8	47.1	45.5	43.9	42.3	40.8	39.3	37.8	36.3
55	51.0	49.3	47.6	46.0	44.4	42.9	41.4	39.9	38.4	37.0
56	51.5	49.8	48.2	46.6	45.0	43.4	41.9	40.4	39.0	37.6
57	51.9	50.3	48.6	47.1	45.5	44.0	42.5	41.0	39.6	38.1

表 4a₂（续）

$t-t_w$ / t	11.5	12.0	12.5	13.5	13.5	14.0	14.5	15.0	15.5	16.0
58	52.4	50.7	49.1	47.6	46.0	44.5	43.0	41.5	40.1	38.7
59	52.8	51.2	49.6	48.0	46.5	45.0	43.5	42.1	40.7	39.3
60	53.2	51.6	50.0	48.5	47.0	45.5	44.0	42.6	41.2	39.8
61	53.6	52.0	50.5	48.9	47.4	46.0	44.5	43.1	41.7	40.3
62	54.0	52.5	50.9	49.4	47.9	46.4	45.0	43.6	42.2	40.8
63	54.4	52.9	51.3	49.8	48.3	46.9	45.4	44.0	42.7	41.3
64	54.8	53.3	51.7	50.2	48.7	47.3	45.9	44.5	43.1	41.8
65	55.2	53.6	52.1	50.6	49.2	47.7	46.3	44.9	43.6	42.2
66	55.5	54.0	52.5	51.0	49.6	48.1	46.7	45.4	44.0	42.7
67	55.9	54.4	52.9	51.4	50.0	48.5	47.1	45.8	44.4	43.1
68	56.2	54.7	53.2	51.8	50.3	48.9	47.6	46.2	44.9	43.6
69	56.6	55.1	53.6	52.1	50.7	49.3	47.9	46.6	45.3	44.0
70	56.9	55.4	53.9	52.5	51.1	49.7	48.3	47.0	45.7	44.4
71	57.2	55.7	54.3	52.9	51.4	50.1	48.7	47.4	46.1	44.8
72	57.6	56.1	54.6	53.2	51.8	50.4	49.1	47.7	46.4	45.2
73	57.9	56.4	54.9	53.5	52.1	50.8	49.4	48.1	46.8	45.6
74	58.2	56.7	55.3	53.9	52.5	51.1	49.8	48.5	47.2	45.9
75	58.5	57.0	55.6	54.2	52.8	51.5	50.1	48.8	47.5	46.3
76	58.8	57.3	55.9	54.5	53.1	51.8	50.5	49.2	47.9	46.6
77	59.0	57.6	56.2	54.8	53.4	52.1	50.8	49.5	48.2	47.0
78	59.3	57.9	56.5	55.1	53.8	52.4	51.1	49.8	48.6	47.3
79	59.6	58.2	56.8	55.4	54.1	52.7	51.4	50.2	48.9	47.7
80	59.9	58.5	57.1	55.7	54.4	53.1	51.8	50.5	49.2	48.0
81	60.1	58.7	57.4	56.0	54.7	53.4	52.1	50.8	49.6	48.3
82	60.4	59.0	57.6	56.3	55.0	53.7	52.4	51.1	49.9	48.7
83	60.7	59.3	57.9	56.6	55.2	53.9	52.7	51.4	50.2	49.0
84	60.9	59.5	58.2	56.8	55.5	54.2	53.0	51.7	50.5	49.3
85	61.2	59.8	58.4	57.1	55.8	54.5	53.3	52.0	50.8	49.6
86	61.4	60.0	58.7	57.4	56.1	54.8	53.5	52.3	51.1	49.9
87	61.6	60.3	58.9	57.6	56.3	55.1	53.8	52.6	51.4	50.2
88	61.9	60.5	59.2	57.9	56.6	55.3	54.1	52.9	51.7	50.5
89	62.1	60.8	59.4	58.1	56.9	55.6	54.4	53.1	52.0	50.8
90	62.4	61.0	59.7	58.4	57.1	55.9	54.6	53.4	52.2	51.1
91	62.6	61.2	59.9	58.6	57.4	56.1	54.9	53.7	52.5	51.3
92	62.8	61.5	60.2	58.9	57.6	56.4	55.2	54.0	52.8	51.6
93	63.0	61.7	60.4	59.1	57.9	56.6	55.4	54.2	53.0	51.9
94	63.3	61.9	60.6	59.4	58.1	56.9	55.7	54.5	53.3	52.2
95	63.5	62.2	60.9	59.6	58.4	57.1	55.9	54.7	53.6	52.4
96	63.7	62.4	61.1	59.8	58.6	57.4	56.2	55.0	53.8	52.7
97	63.9	62.6	61.3	60.1	58.8	57.6	56.4	55.2	54.1	52.9
98	64.1	62.8	61.5	60.3	59.1	57.8	56.7	55.5	54.3	53.2
99	64.3	63.0	61.8	60.5	59.3	58.1	56.9	55.7	54.6	53.4
100	64.5	63.2	62.0	60.7	59.5	58.3	57.1	56.0	54.8	53.7

表 4b 球状水银温度表相对湿度查算表

$P=90$ kPa，$A=0.794\ 7\times10^{-3}℃^{-1}$(0.8 m/s)

$t-t_w$ / t	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0
15	100.0	98.9	97.9	96.8	95.8	94.7	93.7	92.6	91.6	90.6	89.5
16	100.0	99.0	97.9	96.9	95.9	94.9	93.9	92.9	91.9	90.8	89.9
17	100.0	99.0	98.0	97.0	96.0	95.0	94.0	93.1	92.1	91.1	90.1
18	100.0	99.0	98.1	97.1	96.1	95.2	94.2	93.3	92.3	91.4	90.4
19	100.0	99.1	98.1	97.2	96.2	95.3	94.4	93.4	92.5	91.6	90.7
20	100.0	99.1	98.2	97.2	96.3	95.4	94.5	93.6	92.7	91.8	90.9
21	100.0	99.1	98.2	97.3	96.4	95.5	94.6	93.8	92.9	92.0	91.1
22	100.0	99.1	98.2	97.4	96.5	95.6	94.8	93.9	93.1	92.2	91.4
23	100.0	99.1	98.3	97.4	96.6	95.7	94.9	94.1	93.2	92.4	91.6
24	100.0	99.2	98.3	97.5	96.7	95.8	95.0	94.2	93.4	92.6	91.8
25	100.0	99.2	98.4	97.5	96.7	95.9	95.1	94.3	93.5	92.7	91.9
26	100.0	99.2	98.4	97.6	96.8	96.0	95.2	94.4	93.7	92.9	92.1
27	100.0	99.2	98.4	97.7	96.9	96.1	95.3	94.6	93.8	93.0	92.3
28	100.0	99.2	98.5	97.7	96.9	96.2	95.4	94.7	93.9	93.2	92.4
29	100.0	99.2	98.5	97.7	97.0	96.3	95.5	94.8	94.0	93.3	92.6
30	100.0	99.3	98.5	97.8	97.1	96.3	95.6	94.9	94.2	93.4	92.7
31	100.0	99.3	98.5	97.8	97.1	96.4	95.7	95.0	94.3	93.6	92.8
32	100.0	99.3	98.6	97.9	97.2	96.5	95.8	95.1	94.4	93.7	93.0
33	100.0	99.3	98.6	97.9	97.2	96.5	95.8	95.1	94.5	93.8	93.1
34	100.0	99.3	98.6	97.9	97.3	96.6	95.9	95.2	94.6	93.9	93.2
35	100.0	99.3	98.6	98.0	97.3	96.6	96.0	95.3	94.6	94.0	93.3
36	100.0	99.3	98.7	98.0	97.3	96.7	96.0	95.4	94.7	94.1	93.4
37	100.0	99.3	98.7	98.0	97.4	96.7	96.1	95.5	94.8	94.2	93.5
38	100.0	99.4	98.7	98.1	97.4	96.8	96.2	95.5	94.9	94.3	93.6
39	100.0	99.4	98.7	98.1	97.5	96.8	96.2	95.6	95.0	94.3	93.7
40	100.0	99.4	98.7	98.1	97.5	96.9	96.3	95.6	95.0	94.4	93.8
41	100.0	99.4	98.8	98.1	97.5	96.9	96.3	95.7	95.1	94.5	93.9
42	100.0	99.4	98.8	98.2	97.6	97.0	96.4	95.8	95.2	94.6	94.0
43	100.0	99.4	98.8	98.2	97.6	97.0	96.4	95.8	95.2	94.7	94.1
44	100.0	99.4	98.8	98.2	97.6	97.0	96.5	95.9	95.3	94.7	94.1
45	100.0	99.4	98.8	98.2	97.7	97.1	96.5	95.9	95.4	94.8	94.2
46	100.0	99.4	98.8	98.3	97.7	97.1	96.6	96.0	95.4	94.9	94.3
47	100.0	99.4	98.9	98.3	97.7	97.2	96.6	96.0	95.5	94.9	94.4
48	100.0	99.4	98.9	98.3	97.7	97.2	96.6	96.1	95.5	95.0	94.4
49	100.0	99.4	98.9	98.3	97.8	97.2	96.7	96.1	95.6	95.0	94.5
50	100.0	99.4	98.9	98.3	97.8	97.3	96.7	96.2	95.6	95.1	94.6
51	100.0	99.5	98.9	98.4	97.8	97.3	96.7	96.2	95.7	95.2	94.6
52	100.0	99.5	98.9	98.4	97.8	97.3	96.8	96.3	95.7	95.2	94.7
53	100.0	99.5	98.9	98.4	97.9	97.3	96.8	96.3	95.8	95.3	94.7
54	100.0	99.5	98.9	98.4	97.9	97.4	96.9	96.3	95.8	95.3	94.8
55	100.0	99.5	99.0	98.4	97.9	97.4	96.9	96.4	95.9	95.4	94.9
56	100.0	99.5	99.0	98.5	97.9	97.4	96.9	96.4	95.9	95.4	94.9
57	100.0	99.5	99.0	98.5	98.0	97.5	97.0	96.4	96.0	95.5	95.0

表 4b（续）

$t-t_w$ t	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0
58	100.0	99.5	99.0	98.5	98.0	97.5	97.0	96.5	96.0	95.5	95.0
59	100.0	99.5	99.0	98.5	98.0	97.5	97.0	96.5	96.0	95.5	95.1
60	100.0	99.5	99.0	98.5	98.0	97.5	97.0	96.6	96.1	95.6	95.1
61	100.0	99.5	99.0	98.5	98.0	97.6	97.1	96.6	96.1	95.6	95.1
62	100.0	99.5	99.0	98.5	98.1	97.6	97.1	96.6	96.1	95.7	95.2
63	100.0	99.5	99.0	98.6	98.1	97.6	97.1	96.6	96.2	95.7	95.2
64	100.0	99.5	99.0	98.6	98.1	97.6	97.1	96.7	96.2	95.7	95.3
65	100.0	99.5	99.1	98.6	98.1	97.6	97.2	96.7	96.2	95.8	95.3
66	100.0	99.5	99.1	98.6	98.1	97.7	97.2	96.7	96.3	95.8	95.4
67	100.0	99.5	99.1	98.6	98.1	97.7	97.2	96.8	96.3	95.9	95.4
68	100.0	99.5	99.1	98.6	98.2	97.7	97.2	96.8	96.3	95.9	95.4
69	100.0	99.5	99.1	98.6	98.2	97.7	97.3	96.8	96.4	95.9	95.5
70	100.0	99.5	99.1	98.6	98.2	97.7	97.3	96.9	96.4	96.0	95.5
71	100.0	99.5	99.1	98.7	98.2	97.8	97.3	96.9	96.4	96.0	95.6
72	100.0	99.6	99.1	98.7	98.2	97.8	97.3	96.9	96.5	96.0	95.6
73	100.0	99.6	99.1	98.7	98.2	97.8	97.4	96.9	96.5	96.1	95.6
74	100.0	99.6	99.1	98.7	98.2	97.8	97.4	97.0	96.5	96.1	95.7
75	100.0	99.6	99.1	98.7	98.3	97.8	97.4	97.0	96.6	96.1	95.7
76	100.0	99.6	99.1	98.7	98.3	97.9	97.4	97.0	96.6	96.2	95.7
77	100.0	99.6	99.1	98.7	98.3	97.9	97.4	97.0	96.6	96.2	95.8
78	100.0	99.6	99.1	98.7	98.3	97.9	97.5	97.0	96.6	96.2	95.8
79	100.0	99.6	99.2	98.7	98.3	97.9	97.5	97.1	96.7	96.2	95.8
80	100.0	99.6	99.2	98.7	98.3	97.9	97.5	97.1	96.7	96.3	95.9
81	100.0	99.6	99.2	98.8	98.3	97.9	97.5	97.1	96.7	96.3	95.9
82	100.0	99.6	99.2	98.8	98.4	97.9	97.5	97.1	96.7	96.3	95.9
83	100.0	99.6	99.2	98.8	98.4	98.0	97.6	97.2	96.8	96.4	96.0
84	100.0	99.6	99.2	98.8	98.4	98.0	97.6	97.2	96.8	96.4	96.0
85	100.0	99.6	99.2	98.8	98.4	98.0	97.6	97.2	96.8	96.4	96.0
86	100.0	99.6	99.2	98.8	98.4	98.0	97.6	97.2	96.8	96.4	96.0
87	100.0	99.6	99.2	98.8	98.4	98.0	97.6	97.2	96.9	96.5	96.1
88	100.0	99.6	99.2	98.8	98.4	98.0	97.6	97.3	96.9	96.5	96.1
89	100.0	99.6	99.2	98.8	98.4	98.1	97.7	97.3	96.9	96.5	96.1
90	100.0	99.6	99.2	98.8	98.4	98.1	97.7	97.3	96.9	96.5	96.2
91	100.0	99.6	99.2	98.8	98.5	98.1	97.7	97.3	96.9	96.6	96.2
92	100.0	99.6	99.2	98.9	98.5	98.1	97.7	97.3	97.0	96.6	96.2
93	100.0	99.6	99.2	98.9	98.5	98.1	97.7	97.4	97.0	96.6	96.2
94	100.0	99.6	99.2	98.9	98.5	98.1	97.7	97.4	97.0	96.6	96.3
95	100.0	99.6	99.2	98.9	98.5	98.1	97.8	97.4	97.0	96.7	96.3
96	100.0	99.6	99.3	98.9	98.5	98.1	97.8	97.4	97.0	96.7	96.3
97	100.0	99.6	99.3	98.9	98.5	98.2	97.8	97.4	97.1	96.7	96.3
98	100.0	99.6	99.3	98.9	98.5	98.2	97.8	97.4	97.1	96.7	96.4
99	100.0	99.6	99.3	98.9	98.5	98.2	97.8	97.5	97.1	96.7	96.4
100	100.0	99.6	99.3	98.9	98.6	98.2	97.8	97.5	97.1	96.8	96.4

表 4b（续）

t－t_w / t	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0
15	88.5	87.5	86.5	85.5	84.4	83.4	82.4	81.4	80.4	79.4
16	88.9	87.9	86.9	85.9	84.9	83.9	82.9	82.0	81.0	80.0
17	89.2	88.2	87.2	86.3	85.3	84.4	83.4	82.5	81.6	80.6
18	89.5	88.5	87.6	86.7	85.7	84.8	83.9	83.0	82.1	81.2
19	89.8	88.8	87.9	87.0	86.1	85.2	84.3	83.4	82.6	81.7
20	90.0	89.1	88.2	87.4	86.5	85.6	84.7	83.9	83.0	82.1
21	90.3	89.4	88.5	87.7	86.8	86.0	85.1	84.3	83.4	82.6
22	90.5	89.7	88.8	88.0	87.1	86.3	85.5	84.7	83.8	83.0
23	90.7	89.9	89.1	88.3	87.5	86.6	85.8	85.0	84.2	83.4
24	90.9	90.1	89.3	88.5	87.7	86.9	86.2	85.4	84.6	83.8
25	91.1	90.4	89.6	88.8	88.0	87.2	86.5	85.7	84.9	84.2
26	91.3	90.6	89.8	89.0	88.3	87.5	86.8	86.0	85.3	84.5
27	91.5	90.8	90.0	89.3	88.5	87.8	87.0	86.3	85.6	84.8
28	91.7	90.9	90.2	89.5	88.7	88.0	87.3	86.6	85.9	85.1
29	91.8	91.1	90.4	89.7	89.0	88.3	87.5	86.8	86.1	85.4
30	92.0	91.3	90.6	89.9	89.2	88.5	87.8	87.1	86.4	85.7
31	92.1	91.5	90.8	90.1	89.4	88.7	88.0	87.3	86.6	86.0
32	92.3	91.6	90.9	90.2	89.6	88.9	88.2	87.6	86.9	86.2
33	92.4	91.8	91.1	90.4	89.7	89.1	88.4	87.8	87.1	86.5
34	92.6	91.9	91.2	90.6	89.9	89.3	88.6	88.0	87.3	86.7
35	92.7	92.0	91.4	90.7	90.1	89.4	88.8	88.2	87.5	86.9
36	92.8	92.2	91.5	90.9	90.2	89.6	89.0	88.4	87.7	87.1
37	92.9	92.3	91.6	91.0	90.4	89.8	89.2	88.5	87.9	87.3
38	93.0	92.4	91.8	91.2	90.5	89.9	89.3	88.7	88.1	87.5
39	93.1	92.5	91.9	91.3	90.7	90.1	89.5	88.9	88.3	87.7
40	93.2	92.6	92.0	91.4	90.8	90.2	89.6	89.0	88.5	87.9
41	93.3	92.7	92.1	91.5	90.9	90.4	89.8	89.2	88.6	88.0
42	93.4	92.8	92.2	91.7	91.1	90.5	89.9	89.3	88.8	88.2
43	93.5	92.9	92.3	91.8	91.2	90.6	90.1	89.5	88.9	88.4
44	93.6	93.0	92.4	91.9	91.3	90.7	90.2	89.6	89.1	88.5
45	93.7	93.1	92.5	92.0	91.4	90.9	90.3	89.8	89.2	88.7
46	93.7	93.2	92.6	92.1	91.5	91.0	90.4	89.9	89.3	88.8
47	93.8	93.3	92.7	92.2	91.6	91.1	90.6	90.0	89.5	88.9
48	93.9	93.3	92.8	92.3	91.7	91.2	90.7	90.1	89.6	89.1
49	94.0	93.4	92.9	92.4	91.8	91.3	90.8	90.2	89.7	89.2
50	94.0	93.5	93.0	92.4	91.9	91.4	90.9	90.4	89.8	89.3
51	94.1	93.6	93.1	92.5	92.0	91.5	91.0	90.5	90.0	89.4
52	94.2	93.6	93.1	92.6	92.1	91.6	91.1	90.6	90.1	89.6
53	94.2	93.7	93.2	92.7	92.2	91.7	91.2	90.7	90.2	89.7
54	94.3	93.8	93.3	92.8	92.3	91.8	91.3	90.8	90.3	89.8
55	94.3	93.8	93.3	92.8	92.3	91.9	91.4	90.9	90.4	89.9
56	94.4	93.9	93.4	92.9	92.4	91.9	91.4	91.0	90.5	90.0
57	94.5	94.0	93.5	93.0	92.5	92.0	91.5	91.1	90.6	90.1

表 4b（续）

$t-t_w$ / t	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0
58	94.5	94.0	93.5	93.1	92.6	92.1	91.6	91.1	90.7	90.2
59	94.6	94.1	93.6	93.1	92.7	92.2	91.7	91.2	90.8	90.3
60	94.6	94.1	93.7	93.2	92.7	92.3	91.8	91.3	90.8	90.4
61	94.7	94.2	93.7	93.3	92.8	92.3	91.9	91.4	90.9	90.5
62	94.7	94.3	93.8	93.3	92.9	92.4	91.9	91.5	91.0	90.6
63	94.8	94.3	93.8	93.4	92.9	92.5	92.0	91.6	91.1	90.6
64	94.8	94.4	93.9	93.4	93.0	92.5	92.1	91.6	91.2	90.7
65	94.9	94.4	94.0	93.5	93.0	92.6	92.2	91.7	91.3	90.8
66	94.9	94.5	94.0	93.6	93.1	92.7	92.2	91.8	91.3	90.9
67	95.0	94.5	94.1	93.6	93.2	92.7	92.3	91.8	91.4	91.0
68	95.0	94.6	94.1	93.7	93.2	92.8	92.4	91.9	91.5	91.1
69	95.0	94.6	94.2	93.7	93.3	92.9	92.4	92.0	91.6	91.1
70	95.1	94.6	94.2	93.8	93.3	92.9	92.5	92.1	91.6	91.2
71	95.1	94.7	94.3	93.8	93.4	93.0	92.5	92.1	91.7	91.3
72	95.2	94.7	94.3	93.9	93.5	93.0	92.6	92.2	91.8	91.3
73	95.2	94.8	94.4	93.9	93.5	93.1	92.7	92.2	91.8	91.4
74	95.2	94.8	94.4	94.0	93.6	93.1	92.7	92.3	91.9	91.5
75	95.3	94.9	94.4	94.0	93.6	93.2	92.8	92.4	92.0	91.6
76	95.3	94.9	94.5	94.1	93.7	93.2	92.8	92.4	92.0	91.6
77	95.4	94.9	94.5	94.1	93.7	93.3	92.9	92.5	92.1	91.7
78	95.4	95.0	94.6	94.2	93.8	93.4	92.9	92.5	92.1	91.7
79	95.4	95.0	94.6	94.2	93.8	93.4	93.0	92.6	92.2	91.8
80	95.5	95.1	94.7	94.3	93.9	93.5	93.1	92.7	92.3	91.9
81	95.5	95.1	94.7	94.3	93.9	93.5	93.1	92.7	92.3	91.9
82	95.5	95.1	94.7	94.3	93.9	93.6	93.2	92.8	92.4	92.0
83	95.6	95.2	94.8	94.4	94.0	93.6	93.2	92.8	92.4	92.0
84	95.6	95.2	94.8	94.4	94.0	93.6	93.3	92.9	92.5	92.1
85	95.6	95.2	94.8	94.5	94.1	93.7	93.3	92.9	92.5	92.2
86	95.7	95.3	94.9	94.5	94.1	93.7	93.4	93.0	92.6	92.2
87	95.7	95.3	94.9	94.5	94.2	93.8	93.4	93.0	92.6	92.3
88	95.7	95.3	95.0	94.6	94.2	93.8	93.4	93.1	92.7	92.3
89	95.8	95.4	95.0	94.6	94.2	93.9	93.5	93.1	92.8	92.4
90	95.8	95.4	95.0	94.7	94.3	93.9	93.5	93.2	92.8	92.4
91	95.8	95.4	95.1	94.7	94.3	94.0	93.6	93.2	92.9	92.5
92	95.8	95.5	95.1	94.7	94.4	94.0	93.6	93.3	92.9	92.5
93	95.9	95.5	95.1	94.8	94.4	94.0	93.7	93.3	93.0	92.6
94	95.9	95.5	95.2	94.8	94.4	94.1	93.7	93.4	93.0	92.6
95	95.9	95.6	95.2	94.8	94.5	94.1	93.8	93.4	93.0	92.7
96	96.0	95.6	95.2	94.9	94.5	94.2	93.8	93.4	93.1	92.7
97	96.0	95.6	95.3	94.9	94.6	94.2	93.8	93.5	93.1	92.8
98	96.0	95.6	95.3	94.9	94.6	94.2	93.9	93.5	93.2	92.8
99	96.0	95.7	95.3	95.0	94.6	94.3	93.9	93.6	93.2	92.9
100	96.1	95.7	95.4	95.0	94.7	94.3	94.0	93.6	93.3	92.9

表 4b（续）

t＼t－t$_w$	2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9	3.0
15	78.4	77.4	76.5	75.5	74.5	73.5	72.6	71.6	70.6	69.7
16	79.1	78.1	77.2	76.2	75.3	74.3	73.4	72.4	71.5	70.6
17	79.7	78.8	77.8	76.9	76.0	75.1	74.1	73.2	72.3	71.4
18	80.2	79.3	78.4	77.5	76.6	75.8	74.9	74.0	73.1	72.2
19	80.8	79.9	79.0	78.1	77.3	76.4	75.5	74.7	73.8	73.0
20	81.3	80.4	79.6	78.7	77.9	77.0	76.2	75.3	74.5	73.7
21	81.8	80.9	80.1	79.3	78.4	77.6	76.8	76.0	75.2	74.3
22	82.2	81.4	80.6	79.8	79.0	78.2	77.4	76.6	75.8	75.0
23	82.6	81.8	81.0	80.3	79.5	78.7	77.9	77.1	76.4	75.6
24	83.0	82.2	81.5	80.7	79.9	79.2	78.4	77.7	76.9	76.1
25	83.4	82.6	81.9	81.1	80.4	79.6	78.9	78.2	77.4	76.7
26	83.8	83.0	82.3	81.5	80.8	80.1	79.4	78.6	77.9	77.2
27	84.1	83.4	82.6	81.9	81.2	80.5	79.8	79.1	78.4	77.7
28	84.4	83.7	83.0	82.3	81.6	80.9	80.2	79.5	78.8	78.1
29	84.7	84.0	83.3	82.6	82.0	81.3	80.6	79.9	79.2	78.5
30	85.0	84.3	83.7	83.0	82.3	81.6	81.0	80.3	79.6	79.0
31	85.3	84.6	84.0	83.3	82.6	82.0	81.3	80.7	80.0	79.3
32	85.6	84.9	84.2	83.6	82.9	82.3	81.6	81.0	80.4	79.7
33	85.8	85.2	84.5	83.9	83.2	82.6	82.0	81.3	80.7	80.1
34	86.1	85.4	84.8	84.2	83.5	82.9	82.3	81.7	81.0	80.4
35	86.3	85.7	85.0	84.4	83.8	83.2	82.6	82.0	81.3	80.7
36	86.5	85.9	85.3	84.7	84.1	83.4	82.8	82.2	81.6	81.0
37	86.7	86.1	85.5	84.9	84.3	83.7	83.1	82.5	81.9	81.3
38	86.9	86.3	85.7	85.1	84.5	84.0	83.4	82.8	82.2	81.6
39	87.1	86.5	85.9	85.4	84.8	84.2	83.6	83.0	82.5	81.9
40	87.3	86.7	86.1	85.6	85.0	84.4	83.9	83.3	82.7	82.2
41	87.5	86.9	86.3	85.8	85.2	84.6	84.1	83.5	83.0	82.4
42	87.6	87.1	86.5	86.0	85.4	84.9	84.3	83.7	83.2	82.7
43	87.8	87.3	86.7	86.1	85.6	85.1	84.5	84.0	83.4	82.9
44	88.0	87.4	86.9	86.3	85.8	85.2	84.7	84.2	83.6	83.1
45	88.1	87.6	87.0	86.5	86.0	85.4	84.9	84.4	83.8	83.3
46	88.3	87.7	87.2	86.7	86.1	85.6	85.1	84.6	84.0	83.5
47	88.4	87.9	87.4	86.8	86.3	85.8	85.3	84.8	84.2	83.7
48	88.6	88.0	87.5	87.0	86.5	86.0	85.4	84.9	84.4	83.9
49	88.7	88.2	87.7	87.1	86.6	86.1	85.6	85.1	84.6	84.1
50	88.8	88.3	87.8	87.3	86.8	86.3	85.8	85.3	84.8	84.3
51	88.9	88.4	87.9	87.4	86.9	86.4	85.9	85.4	85.0	84.5
52	89.1	88.6	88.1	87.6	87.1	86.6	86.1	85.6	85.1	84.6
53	89.2	88.7	88.2	87.7	87.2	86.7	86.2	85.8	85.3	84.8
54	89.3	88.8	88.3	87.8	87.4	86.9	86.4	85.9	85.4	85.0
55	89.4	88.9	88.4	88.0	87.5	87.0	86.5	86.1	85.6	85.1
56	89.5	89.0	88.6	88.1	87.6	87.1	86.7	86.2	85.7	85.3
57	89.6	89.1	88.7	88.2	87.7	87.3	86.8	86.3	85.9	85.4

表 4b（续）

t\t−t_w	2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9	3.0
58	89.7	89.3	88.8	88.3	87.9	87.4	86.9	86.5	86.0	85.6
59	89.8	89.4	88.9	88.4	88.0	87.5	87.1	86.6	86.1	85.7
60	89.9	89.5	89.0	88.5	88.1	87.6	87.2	86.7	86.3	85.8
61	90.0	89.6	89.1	88.7	88.2	87.7	87.3	86.9	86.4	86.0
62	90.1	89.7	89.2	88.8	88.3	87.9	87.4	87.0	86.5	86.1
63	90.2	89.8	89.3	88.9	88.4	88.0	87.5	87.1	86.7	86.2
64	90.3	89.8	89.4	89.0	88.5	88.1	87.6	87.2	86.8	86.3
65	90.4	89.9	89.5	89.1	88.6	88.2	87.8	87.3	86.9	86.5
66	90.5	90.0	89.6	89.2	88.7	88.3	87.9	87.4	87.0	86.6
67	90.5	90.1	89.7	89.2	88.8	88.4	88.0	87.5	87.1	86.7
68	90.6	90.2	89.8	89.3	88.9	88.5	88.1	87.6	87.2	86.8
69	90.7	90.3	89.8	89.4	89.0	88.6	88.2	87.7	87.3	86.9
70	90.8	90.4	89.9	89.5	89.1	88.7	88.3	87.9	87.4	87.0
71	90.9	90.4	90.0	89.6	89.2	88.8	88.4	88.0	87.5	87.1
72	90.9	90.5	90.1	89.7	89.3	88.9	88.5	88.0	87.6	87.2
73	91.0	90.6	90.2	89.8	89.4	89.0	88.5	88.1	87.7	87.3
74	91.1	90.7	90.3	89.8	89.4	89.0	88.6	88.2	87.8	87.4
75	91.1	90.7	90.3	89.9	89.5	89.1	88.7	88.3	87.9	87.5
76	91.2	90.8	90.4	90.0	89.6	89.2	88.8	88.4	88.0	87.6
77	91.3	90.9	90.5	90.1	89.7	89.3	88.9	88.5	88.1	87.7
78	91.3	90.9	90.6	90.2	89.8	89.4	89.0	88.6	88.2	87.8
79	91.4	91.0	90.6	90.2	89.8	89.5	89.1	88.7	88.3	87.9
80	91.5	91.1	90.7	90.3	89.9	89.5	89.1	88.8	88.4	88.0
81	91.5	91.2	90.8	90.4	90.0	89.6	89.2	88.8	88.5	88.1
82	91.6	91.2	90.8	90.4	90.1	89.7	89.3	88.9	88.6	88.2
83	91.7	91.3	90.9	90.5	90.1	89.8	89.4	89.0	88.6	88.3
84	91.7	91.3	91.0	90.6	90.2	89.8	89.5	89.1	88.7	88.3
85	91.8	91.4	91.0	90.7	90.3	89.9	89.5	89.2	88.8	88.4
86	91.8	91.5	91.1	90.7	90.4	90.0	89.6	89.2	88.9	88.5
87	91.9	91.5	91.2	90.8	90.4	90.1	89.7	89.3	89.0	88.6
88	92.0	91.6	91.2	90.9	90.5	90.1	89.8	89.4	89.0	88.7
89	92.0	91.6	91.3	90.9	90.6	90.2	89.8	89.5	89.1	88.7
90	92.1	91.7	91.3	91.0	90.6	90.3	89.9	89.5	89.2	88.8
91	92.1	91.8	91.4	91.0	90.7	90.3	90.0	89.6	89.3	88.9
92	92.2	91.8	91.5	91.1	90.7	90.4	90.0	89.7	89.3	89.0
93	92.2	91.9	91.5	91.2	90.8	90.5	90.1	89.8	89.4	89.1
94	92.3	91.9	91.6	91.2	90.9	90.5	90.2	89.8	89.5	89.1
95	92.3	92.0	91.6	91.3	90.9	90.6	90.2	89.9	89.5	89.2
96	92.4	92.0	91.7	91.3	91.0	90.6	90.3	90.0	89.6	89.3
97	92.4	92.1	91.7	91.4	91.0	90.7	90.4	90.0	89.7	89.3
98	92.5	92.1	91.8	91.5	91.1	90.8	90.4	90.1	89.7	89.4
99	92.5	92.2	91.8	91.5	91.2	90.8	90.5	90.1	89.8	89.5
100	92.6	92.2	91.9	91.6	91.2	90.9	90.5	90.2	89.9	89.5

表 4b（续）

$t-t_w$ t	3.1	3.2	3.3	3.4	3.5	3.6	3.7	3.8	3.9	4.0
15	68.7	67.7	66.8	65.8	64.9	63.9	63.0	62.1	61.1	60.2
16	69.6	68.7	67.8	66.9	65.9	65.0	64.1	63.2	62.3	61.4
17	70.5	69.6	68.7	67.8	66.9	66.0	65.2	64.3	63.4	62.5
18	71.3	70.5	69.6	68.7	67.9	67.0	66.1	65.3	64.4	63.6
19	72.1	71.3	70.4	69.6	68.7	67.9	67.1	66.2	65.4	64.6
20	72.9	72.0	71.2	70.4	69.6	68.7	67.9	67.1	66.3	65.5
21	73.5	72.7	71.9	71.1	70.3	69.5	68.8	68.0	67.2	66.4
22	74.2	73.4	72.6	71.8	71.1	70.3	69.5	68.8	68.0	67.2
23	74.8	74.0	73.3	72.5	71.8	71.0	70.3	69.5	68.8	68.0
24	75.4	74.6	73.9	73.2	72.4	71.7	70.9	70.2	69.5	68.8
25	75.9	75.2	74.5	73.8	73.0	72.3	71.6	70.9	70.2	69.5
26	76.5	75.8	75.0	74.3	73.6	72.9	72.2	71.5	70.8	70.1
27	77.0	76.3	75.6	74.9	74.2	73.5	72.8	72.1	71.4	70.8
28	77.4	76.7	76.1	75.4	74.7	74.0	73.4	72.7	72.0	71.4
29	77.9	77.2	76.5	75.9	75.2	74.5	73.9	73.2	72.6	71.9
30	78.3	77.6	77.0	76.3	75.7	75.0	74.4	73.7	73.1	72.5
31	78.7	78.1	77.4	76.8	76.1	75.5	74.9	74.2	73.6	73.0
32	79.1	78.5	77.8	77.2	76.6	75.9	75.3	74.7	74.1	73.5
33	79.5	78.8	78.2	77.6	77.0	76.4	75.8	75.1	74.5	73.9
34	79.8	79.2	78.6	78.0	77.4	76.8	76.2	75.6	75.0	74.4
35	80.1	79.5	78.9	78.3	77.7	77.1	76.6	76.0	75.4	74.8
36	80.5	79.9	79.3	78.7	78.1	77.5	76.9	76.4	75.8	75.2
37	80.8	80.2	79.6	79.0	78.4	77.9	77.3	76.7	76.2	75.6
38	81.1	80.5	79.9	79.3	78.8	78.2	77.6	77.1	76.5	76.0
39	81.3	80.8	80.2	79.6	79.1	78.5	78.0	77.4	76.9	76.3
40	81.6	81.0	80.5	79.9	79.4	78.8	78.3	77.7	77.2	76.7
41	81.9	81.3	80.8	80.2	79.7	79.1	78.6	78.1	77.5	77.0
42	82.1	81.6	81.0	80.5	80.0	79.4	78.9	78.4	77.8	77.3
43	82.3	81.8	81.3	80.7	80.2	79.7	79.2	78.6	78.1	77.6
44	82.6	82.0	81.5	81.0	80.5	80.0	79.4	78.9	78.4	77.9
45	82.8	82.3	81.8	81.2	80.7	80.2	79.7	79.2	78.7	78.2
46	83.0	82.5	82.0	81.5	81.0	80.5	80.0	79.5	79.0	78.5
47	83.2	82.7	82.2	81.7	81.2	80.7	80.2	79.7	79.2	78.7
48	83.4	82.9	82.4	81.9	81.4	80.9	80.4	79.9	79.5	79.0
49	83.6	83.1	82.6	82.1	81.6	81.1	80.7	80.2	79.7	79.2
50	83.8	83.3	82.8	82.3	81.8	81.4	80.9	80.4	79.9	79.4
51	84.0	83.5	83.0	82.5	82.0	81.6	81.1	80.6	80.1	79.7
52	84.2	83.7	83.2	82.7	82.2	81.8	81.3	80.8	80.4	79.9
53	84.3	83.8	83.4	82.9	82.4	82.0	81.5	81.0	80.6	80.1
54	84.5	84.0	83.6	83.1	82.6	82.2	81.7	81.2	80.8	80.3
55	84.7	84.2	83.7	83.3	82.8	82.3	81.9	81.4	81.0	80.5
56	84.8	84.3	83.9	83.4	83.0	82.5	82.1	81.6	81.2	80.7
57	85.0	84.5	84.0	83.6	83.1	82.7	82.2	81.8	81.4	80.9

表 4b（续）

$t-t_w$ / t	3.1	3.2	3.3	3.4	3.5	3.6	3.7	3.8	3.9	4.0
58	85.1	84.7	84.2	83.8	83.3	82.9	82.4	82.0	81.5	81.1
59	85.2	84.8	84.4	83.9	83.5	83.0	82.6	82.1	81.7	81.3
60	85.4	84.9	84.5	84.1	83.6	83.2	82.7	82.3	81.9	81.5
61	85.5	85.1	84.6	84.2	83.8	83.3	82.9	82.5	82.0	81.6
62	85.7	85.2	84.8	84.4	83.9	83.5	83.1	82.6	82.2	81.8
63	85.8	85.4	84.9	84.5	84.1	83.6	83.2	82.8	82.4	82.0
64	85.9	85.5	85.1	84.6	84.2	83.8	83.4	82.9	82.5	82.1
65	86.0	85.6	85.2	84.8	84.3	83.9	83.5	83.1	82.7	82.3
66	86.2	85.7	85.3	84.9	84.5	84.1	83.7	83.2	82.8	82.4
67	86.3	85.9	85.4	85.0	84.6	84.2	83.8	83.4	83.0	82.6
68	86.4	86.0	85.6	85.2	84.7	84.3	83.9	83.5	83.1	82.7
69	86.5	86.1	85.7	85.3	84.9	84.5	84.1	83.7	83.3	82.9
70	86.6	86.2	85.8	85.4	85.0	84.6	84.2	83.8	83.4	83.0
71	86.7	86.3	85.9	85.5	85.1	84.7	84.3	83.9	83.5	83.1
72	86.8	86.4	86.0	85.6	85.2	84.8	84.4	84.1	83.7	83.3
73	86.9	86.5	86.1	85.7	85.4	85.0	84.6	84.2	83.8	83.4
74	87.0	86.6	86.3	85.9	85.5	85.1	84.7	84.3	83.9	83.5
75	87.1	86.8	86.4	86.0	85.6	85.2	84.8	84.4	84.0	83.7
76	87.2	86.9	86.5	86.1	85.7	85.3	84.9	84.5	84.2	83.8
77	87.3	87.0	86.6	86.2	85.8	85.4	85.0	84.7	84.3	83.9
78	87.4	87.1	86.7	86.3	85.9	85.5	85.2	84.8	84.4	84.0
79	87.5	87.1	86.8	86.4	86.0	85.6	85.3	84.9	84.5	84.1
80	87.6	87.2	86.9	86.5	86.1	85.7	85.4	85.0	84.6	84.3
81	87.7	87.3	87.0	86.6	86.2	85.8	85.5	85.1	84.7	84.4
82	87.8	87.4	87.1	86.7	86.3	85.9	85.6	85.2	84.9	84.5
83	87.9	87.5	87.2	86.8	86.4	86.1	85.7	85.3	85.0	84.6
84	88.0	87.6	87.2	86.9	86.5	86.1	85.8	85.4	85.1	84.7
85	88.1	87.7	87.3	87.0	86.6	86.2	85.9	85.5	85.2	84.8
86	88.1	87.8	87.4	87.1	86.7	86.3	86.0	85.6	85.3	84.9
87	88.2	87.9	87.5	87.2	86.8	86.4	86.1	85.7	85.4	85.0
88	88.3	88.0	87.6	87.2	86.9	86.5	86.2	85.8	85.5	85.1
89	88.4	88.0	87.7	87.3	87.0	86.6	86.3	85.9	85.6	85.2
90	88.5	88.1	87.8	87.4	87.1	86.7	86.4	86.0	85.7	85.3
91	88.6	88.2	87.8	87.5	87.2	86.8	86.5	86.1	85.8	85.4
92	88.6	88.3	87.9	87.6	87.2	86.9	86.5	86.2	85.9	85.5
93	88.7	88.4	88.0	87.7	87.3	87.0	86.6	86.3	86.0	85.6
94	88.8	88.4	88.1	87.7	87.4	87.1	86.7	86.4	86.1	85.7
95	88.9	88.5	88.2	87.8	87.5	87.2	86.8	86.5	86.1	85.8
96	88.9	88.6	88.2	87.9	87.6	87.2	86.9	86.6	86.2	85.9
97	89.0	88.7	88.3	88.0	87.7	87.3	87.0	86.7	86.3	86.0
98	89.1	88.7	88.4	88.1	87.7	87.4	87.1	86.7	86.4	86.1
99	89.1	88.8	88.5	88.1	87.8	87.5	87.2	86.8	86.5	86.2
100	89.2	88.9	88.5	88.2	87.9	87.6	87.2	86.9	86.6	86.3

表 4b（续）

t＼t－t_w	4.1	4.2	4.3	4.4	4.5	4.6	4.7	4.8	4.9	5.0
15	59.3	58.3	57.4	56.5	55.6	54.7	53.7	52.8	51.9	51.0
16	60.5	59.6	58.7	57.8	56.9	56.0	55.1	54.3	53.4	52.5
17	61.6	60.8	59.9	59.0	58.2	57.3	56.5	55.6	54.8	53.9
18	62.7	61.9	61.0	60.2	59.4	58.5	57.7	56.9	56.0	55.2
19	63.7	62.9	62.1	61.3	60.5	59.7	58.9	58.1	57.3	56.5
20	64.7	63.9	63.1	62.3	61.5	60.7	60.0	59.2	58.4	57.6
21	65.6	64.8	64.1	63.3	62.5	61.8	61.0	60.2	59.5	58.7
22	66.5	65.7	65.0	64.2	63.5	62.7	62.0	61.2	60.5	59.7
23	67.3	66.5	65.8	65.1	64.3	63.6	62.9	62.2	61.4	60.7
24	68.0	67.3	66.6	65.9	65.2	64.5	63.7	63.0	62.3	61.6
25	68.8	68.1	67.3	66.6	66.0	65.3	64.6	63.9	63.2	62.5
26	69.4	68.7	68.1	67.4	66.7	66.0	65.3	64.7	64.0	63.3
27	70.1	69.4	68.7	68.1	67.4	66.7	66.1	65.4	64.8	64.1
28	70.7	70.0	69.4	68.7	68.1	67.4	66.8	66.1	65.5	64.8
29	71.3	70.6	70.0	69.3	68.7	68.1	67.4	66.8	66.2	65.5
30	71.8	71.2	70.6	69.9	69.3	68.7	68.1	67.4	66.8	66.2
31	72.4	71.7	71.1	70.5	69.9	69.3	68.7	68.1	67.4	66.8
32	72.9	72.2	71.6	71.0	70.4	69.8	69.2	68.6	68.0	67.4
33	73.3	72.7	72.1	71.5	70.9	70.4	69.8	69.2	68.6	68.0
34	73.8	73.2	72.6	72.0	71.4	70.9	70.3	69.7	69.1	68.6
35	74.2	73.6	73.1	72.5	71.9	71.3	70.8	70.2	69.7	69.1
36	74.6	74.1	73.5	72.9	72.4	71.8	71.3	70.7	70.1	69.6
37	75.0	74.5	73.9	73.4	72.8	72.3	71.7	71.2	70.6	70.1
38	75.4	74.9	74.3	73.8	73.2	72.7	72.1	71.6	71.1	70.5
39	75.8	75.2	74.7	74.2	73.6	73.1	72.5	72.0	71.5	71.0
40	76.1	75.6	75.1	74.5	74.0	73.5	72.9	72.4	71.9	71.4
41	76.5	75.9	75.4	74.9	74.4	73.8	73.3	72.8	72.3	71.8
42	76.8	76.3	75.7	75.2	74.7	74.2	73.7	73.2	72.7	72.2
43	77.1	76.6	76.1	75.6	75.0	74.5	74.0	73.5	73.0	72.5
44	77.4	76.9	76.4	75.9	75.4	74.9	74.4	73.9	73.4	72.9
45	77.7	77.2	76.7	76.2	75.7	75.2	74.7	74.2	73.7	73.2
46	78.0	77.5	77.0	76.5	76.0	75.5	75.0	74.5	74.0	73.6
47	78.2	77.7	77.2	76.8	76.3	75.8	75.3	74.8	74.4	73.9
48	78.5	78.0	77.5	77.0	76.6	76.1	75.6	75.1	74.7	74.2
49	78.7	78.3	77.8	77.3	76.8	76.4	75.9	75.4	75.0	74.5
50	79.0	78.5	78.0	77.6	77.1	76.6	76.2	75.7	75.2	74.8
51	79.2	78.7	78.3	77.8	77.3	76.9	76.4	76.0	75.5	75.1
52	79.4	79.0	78.5	78.0	77.6	77.1	76.7	76.2	75.8	75.3
53	79.7	79.2	78.7	78.3	77.8	77.4	76.9	76.5	76.0	75.6
54	79.9	79.4	79.0	78.5	78.1	77.6	77.2	76.7	76.3	75.8
55	80.1	79.6	79.2	78.7	78.3	77.8	77.4	77.0	76.5	76.1
56	80.3	79.8	79.4	78.9	78.5	78.1	77.6	77.2	76.8	76.3
57	80.5	80.0	79.6	79.2	78.7	78.3	77.9	77.4	77.0	76.6

表 4b（续）

t \ $t-t_w$	4.1	4.2	4.3	4.4	4.5	4.6	4.7	4.8	4.9	5.0
58	80.7	80.2	79.8	79.4	78.9	78.5	78.1	77.6	77.2	76.8
59	80.8	80.4	80.0	79.6	79.1	78.7	78.3	77.9	77.4	77.0
60	81.0	80.6	80.2	79.7	79.3	78.9	78.5	78.1	77.6	77.2
61	81.2	80.8	80.4	79.9	79.5	79.1	78.7	78.3	77.8	77.4
62	81.4	80.9	80.5	80.1	79.7	79.3	78.9	78.5	78.0	77.6
63	81.5	81.1	80.7	80.3	79.9	79.5	79.1	78.7	78.2	77.8
64	81.7	81.3	80.9	80.5	80.1	79.6	79.2	78.8	78.4	78.0
65	81.9	81.4	81.0	80.6	80.2	79.8	79.4	79.0	78.6	78.2
66	82.0	81.6	81.2	80.8	80.4	80.0	79.6	79.2	78.8	78.4
67	82.2	81.8	81.4	81.0	80.6	80.2	79.8	79.4	79.0	78.6
68	82.3	81.9	81.5	81.1	80.7	80.3	79.9	79.5	79.2	78.8
69	82.5	82.1	81.7	81.3	80.9	80.5	80.1	79.7	79.3	78.9
70	82.6	82.2	81.8	81.4	81.0	80.6	80.3	79.9	79.5	79.1
71	82.7	82.4	82.0	81.6	81.2	80.8	80.4	80.0	79.7	79.3
72	82.9	82.5	82.1	81.7	81.3	81.0	80.6	80.2	79.8	79.4
73	83.0	82.6	82.2	81.9	81.5	81.1	80.7	80.4	80.0	79.6
74	83.1	82.8	82.4	82.0	81.6	81.3	80.9	80.5	80.1	79.8
75	83.3	82.9	82.5	82.1	81.8	81.4	81.0	80.7	80.3	79.9
76	83.4	83.0	82.7	82.3	81.9	81.5	81.2	80.8	80.4	80.1
77	83.5	83.2	82.8	82.4	82.0	81.7	81.3	80.9	80.6	80.2
78	83.7	83.3	82.9	82.5	82.2	81.8	81.4	81.1	80.7	80.4
79	83.8	83.4	83.0	82.7	82.3	81.9	81.6	81.2	80.9	80.5
80	83.9	83.5	83.2	82.8	82.4	82.1	81.7	81.4	81.0	80.6
81	84.0	83.6	83.3	82.9	82.6	82.2	81.8	81.5	81.1	80.8
82	84.1	83.8	83.4	83.0	82.7	82.3	82.0	81.6	81.3	80.9
83	84.2	83.9	83.5	83.2	82.8	82.5	82.1	81.8	81.4	81.1
84	84.4	84.0	83.6	83.3	82.9	82.6	82.2	81.9	81.5	81.2
85	84.5	84.1	83.8	83.4	83.1	82.7	82.4	82.0	81.7	81.3
86	84.6	84.2	83.9	83.5	83.2	82.8	82.5	82.1	81.8	81.4
87	84.7	84.3	84.0	83.6	83.3	82.9	82.6	82.3	81.9	81.6
88	84.8	84.4	84.1	83.7	83.4	83.1	82.7	82.4	82.0	81.7
89	84.9	84.5	84.2	83.9	83.5	83.2	82.8	82.5	82.2	81.8
90	85.0	84.6	84.3	84.0	83.6	83.3	82.9	82.6	82.3	81.9
91	85.1	84.7	84.4	84.1	83.7	83.4	83.1	82.7	82.4	82.1
92	85.2	84.8	84.5	84.2	83.8	83.5	83.2	82.8	82.5	82.2
93	85.3	84.9	84.6	84.3	83.9	83.6	83.3	83.0	82.6	82.3
94	85.4	85.0	84.7	84.4	84.1	83.7	83.4	83.1	82.7	82.4
95	85.5	85.1	84.8	84.5	84.2	83.8	83.5	83.2	82.8	82.5
96	85.6	85.2	84.9	84.6	84.3	83.9	83.6	83.3	83.0	82.6
97	85.7	85.3	85.0	84.7	84.4	84.0	83.7	83.4	83.1	82.7
98	85.8	85.4	85.1	84.8	84.5	84.1	83.8	83.5	83.2	82.9
99	85.8	85.5	85.2	84.9	84.6	84.2	83.9	83.6	83.3	83.0
100	85.9	85.6	85.3	85.0	84.7	84.3	84.0	83.7	83.4	83.1

表 4b（续）

t \\ $t-t_w$	5.2	5.4	5.6	5.8	6.0	6.2	6.4	6.6	6.8	7.0
15	49.2	47.4	45.7	43.9	42.1	40.4	38.7	36.9	35.2	33.5
16	50.8	49.0	47.3	45.6	43.9	42.2	40.6	38.9	37.2	35.6
17	52.2	50.5	48.9	47.2	45.6	43.9	42.3	40.7	39.1	37.5
18	53.6	52.0	50.3	48.7	47.1	45.6	44.0	42.4	40.9	39.3
19	54.9	53.3	51.7	50.2	48.6	47.1	45.5	44.0	42.5	41.0
20	56.1	54.5	53.0	51.5	50.0	48.5	47.0	45.5	44.1	42.6
21	57.2	55.7	54.2	52.8	51.3	49.8	48.4	47.0	45.5	44.1
22	58.3	56.8	55.4	53.9	52.5	51.1	49.7	48.3	46.9	45.5
23	59.3	57.9	56.5	55.1	53.7	52.3	50.9	49.6	48.2	46.9
24	60.2	58.9	57.5	56.1	54.8	53.4	52.1	50.8	49.4	48.1
25	61.1	59.8	58.5	57.1	55.8	54.5	53.2	51.9	50.6	49.3
26	62.0	60.7	59.4	58.1	56.8	55.5	54.2	53.0	51.7	50.5
27	62.8	61.5	60.2	59.0	57.7	56.4	55.2	54.0	52.7	51.5
28	63.6	62.3	61.1	59.8	58.6	57.3	56.1	54.9	53.7	52.5
29	64.3	63.1	61.8	60.6	59.4	58.2	57.0	55.8	54.7	53.5
30	65.0	63.8	62.6	61.4	60.2	59.0	57.8	56.7	55.5	54.4
31	65.6	64.5	63.3	62.1	60.9	59.8	58.6	57.5	56.4	55.3
32	66.3	65.1	63.9	62.8	61.7	60.5	59.4	58.3	57.2	56.1
33	66.9	65.7	64.6	63.5	62.3	61.2	60.1	59.0	57.9	56.9
34	67.4	66.3	65.2	64.1	63.0	61.9	60.8	59.7	58.7	57.6
35	68.0	66.9	65.8	64.7	63.6	62.5	61.5	60.4	59.3	58.3
36	68.5	67.4	66.3	65.2	64.2	63.1	62.1	61.0	60.0	59.0
37	69.0	67.9	66.8	65.8	64.7	63.7	62.7	61.6	60.6	59.6
38	69.5	68.4	67.4	66.3	65.3	64.3	63.2	62.2	61.2	60.2
39	69.9	68.9	67.8	66.8	65.8	64.8	63.8	62.8	61.8	60.8
40	70.3	69.3	68.3	67.3	66.3	65.3	64.3	63.3	62.4	61.4
41	70.8	69.7	68.7	67.8	66.8	65.8	64.8	63.8	62.9	61.9
42	71.2	70.2	69.2	68.2	67.2	66.3	65.3	64.3	63.4	62.5
43	71.5	70.6	69.6	68.6	67.7	66.7	65.8	64.8	63.9	63.0
44	71.9	70.9	70.0	69.0	68.1	67.1	66.2	65.3	64.4	63.4
45	72.3	71.3	70.4	69.4	68.5	67.6	66.6	65.7	64.8	63.9
46	72.6	71.7	70.7	69.8	68.9	68.0	67.0	66.1	65.2	64.4
47	72.9	72.0	71.1	70.2	69.2	68.3	67.4	66.5	65.7	64.8
48	73.3	72.3	71.4	70.5	69.6	68.7	67.8	66.9	66.1	65.2
49	73.6	72.7	71.8	70.9	70.0	69.1	68.2	67.3	66.5	65.6
50	73.9	73.0	72.1	71.2	70.3	69.4	68.5	67.7	66.8	66.0
51	74.2	73.3	72.4	71.5	70.6	69.8	68.9	68.0	67.2	66.4
52	74.4	73.6	72.7	71.8	70.9	70.1	69.2	68.4	67.5	66.7
53	74.7	73.8	73.0	72.1	71.2	70.4	69.6	68.7	67.9	67.1
54	75.0	74.1	73.2	72.4	71.5	70.7	69.9	69.0	68.2	67.4
55	75.2	74.4	73.5	72.7	71.8	71.0	70.2	69.4	68.5	67.7
56	75.5	74.6	73.8	72.9	72.1	71.3	70.5	69.7	68.9	68.1
57	75.7	74.9	74.0	73.2	72.4	71.6	70.8	70.0	69.2	68.4

表 4b（续）

$t \diagdown t-t_w$	5.2	5.4	5.6	5.8	6.0	6.2	6.4	6.6	6.8	7.0
58	76.0	75.1	74.3	73.5	72.7	71.8	71.0	70.2	69.4	68.7
59	76.2	75.4	74.5	73.7	72.9	72.1	71.3	70.5	69.7	69.0
60	76.4	75.6	74.8	74.0	73.2	72.4	71.6	70.8	70.0	69.2
61	76.6	75.8	75.0	74.2	73.4	72.6	71.8	71.1	70.3	69.5
62	76.8	76.0	75.2	74.4	73.6	72.9	72.1	71.3	70.5	69.8
63	77.0	76.2	75.4	74.7	73.9	73.1	72.3	71.6	70.8	70.1
64	77.2	76.4	75.7	74.9	74.1	73.3	72.6	71.8	71.1	70.3
65	77.4	76.6	75.9	75.1	74.3	73.6	72.8	72.1	71.3	70.6
66	77.6	76.8	76.1	75.3	74.5	73.8	73.0	72.3	71.5	70.8
67	77.8	77.0	76.3	75.5	74.8	74.0	73.3	72.5	71.8	71.0
68	78.0	77.2	76.5	75.7	75.0	74.2	73.5	72.7	72.0	71.3
69	78.2	77.4	76.7	75.9	75.2	74.4	73.7	73.0	72.2	71.5
70	78.4	77.6	76.8	76.1	75.4	74.6	73.9	73.2	72.5	71.7
71	78.5	77.8	77.0	76.3	75.6	74.8	74.1	73.4	72.7	72.0
72	78.7	77.9	77.2	76.5	75.7	75.0	74.3	73.6	72.9	72.2
73	78.9	78.1	77.4	76.7	75.9	75.2	74.5	73.8	73.1	72.4
74	79.0	78.3	77.6	76.8	76.1	75.4	74.7	74.0	73.3	72.6
75	79.2	78.5	77.7	77.0	76.3	75.6	74.9	74.2	73.5	72.8
76	79.3	78.6	77.9	77.2	76.5	75.8	75.1	74.4	73.7	73.0
77	79.5	78.8	78.1	77.3	76.6	75.9	75.3	74.6	73.9	73.2
78	79.6	78.9	78.2	77.5	76.8	76.1	75.4	74.7	74.1	73.4
79	79.8	79.1	78.4	77.7	77.0	76.3	75.6	74.9	74.3	73.6
80	79.9	79.2	78.5	77.8	77.1	76.5	75.8	75.1	74.4	73.8
81	80.1	79.4	78.7	78.0	77.3	76.6	76.0	75.3	74.6	73.9
82	80.2	79.5	78.8	78.1	77.5	76.8	76.1	75.5	74.8	74.1
83	80.4	79.7	79.0	78.3	77.6	77.0	76.3	75.6	75.0	74.3
84	80.5	79.8	79.1	78.5	77.8	77.1	76.4	75.8	75.1	74.5
85	80.6	79.9	79.3	78.6	77.9	77.3	76.6	76.0	75.3	74.7
86	80.8	80.1	79.4	78.7	78.1	77.4	76.8	76.1	75.5	74.8
87	80.9	80.2	79.6	78.9	78.2	77.6	76.9	76.3	75.6	75.0
88	81.0	80.4	79.7	79.0	78.4	77.7	77.1	76.4	75.8	75.2
89	81.2	80.5	79.8	79.2	78.5	77.9	77.2	76.6	76.0	75.3
90	81.3	80.6	80.0	79.3	78.7	78.0	77.4	76.7	76.1	75.5
91	81.4	80.7	80.1	79.4	78.8	78.2	77.5	76.9	76.3	75.6
92	81.5	80.9	80.2	79.6	78.9	78.3	77.7	77.0	76.4	75.8
93	81.6	81.0	80.3	79.7	79.1	78.4	77.8	77.2	76.6	75.9
94	81.8	81.1	80.5	79.8	79.2	78.6	78.0	77.3	76.7	76.1
95	81.9	81.2	80.6	80.0	79.3	78.7	78.1	77.5	76.9	76.2
96	82.0	81.4	80.7	80.1	79.5	78.8	78.2	77.6	77.0	76.4
97	82.1	81.5	80.8	80.2	79.6	79.0	78.4	77.8	77.1	76.5
98	82.2	81.6	81.0	80.3	79.7	79.1	78.5	77.9	77.3	76.7
99	82.3	81.7	81.1	80.5	79.9	79.2	78.6	78.0	77.4	76.8
100	82.4	81.8	81.2	80.6	80.0	79.4	78.8	78.2	77.6	77.0

表 4b（续）

$t-t_w$ t	7.2	7.4	7.6	7.8	8.0	8.2	8.4	8.6	8.8	9.0
15	31.8	30.2	28.5	26.8	25.2	23.5	21.9	20.3	18.7	17.1
16	33.9	32.3	30.7	29.1	27.5	25.9	24.3	22.8	21.2	19.7
17	35.9	34.4	32.8	31.2	29.7	28.2	26.6	25.1	23.6	22.1
18	37.8	36.3	34.7	33.2	31.7	30.3	28.8	27.3	25.9	24.4
19	39.5	38.1	36.6	35.1	33.7	32.2	30.8	29.4	28.0	26.6
20	41.2	39.7	38.3	36.9	35.5	34.1	32.7	31.3	29.9	28.6
21	42.7	41.3	39.9	38.6	37.2	35.8	34.5	33.1	31.8	30.5
22	44.2	42.8	41.5	40.1	38.8	37.5	36.2	34.9	33.6	32.3
23	45.5	44.2	42.9	41.6	40.3	39.0	37.7	36.5	35.2	34.0
24	46.8	45.5	44.3	43.0	41.7	40.5	39.2	38.0	36.8	35.6
25	48.1	46.8	45.6	44.3	43.1	41.9	40.6	39.4	38.2	37.1
26	49.2	48.0	46.8	45.6	44.4	43.2	42.0	40.8	39.6	38.5
27	50.3	49.1	47.9	46.7	45.6	44.4	43.2	42.1	40.9	39.8
28	51.3	50.2	49.0	47.8	46.7	45.6	44.4	43.3	42.2	41.1
29	52.3	51.2	50.0	48.9	47.8	46.7	45.6	44.5	43.4	42.3
30	53.3	52.1	51.0	49.9	48.8	47.7	46.6	45.5	44.5	43.4
31	54.1	53.0	51.9	50.9	49.8	48.7	47.6	46.6	45.5	44.5
32	55.0	53.9	52.8	51.8	50.7	49.7	48.6	47.6	46.5	45.5
33	55.8	54.7	53.7	52.6	51.6	50.5	49.5	48.5	47.5	46.5
34	56.5	55.5	54.5	53.4	52.4	51.4	50.4	49.4	48.4	47.4
35	57.3	56.2	55.2	54.2	53.2	52.2	51.2	50.3	49.3	48.3
36	58.0	57.0	56.0	55.0	54.0	53.0	52.0	51.1	50.1	49.2
37	58.6	57.6	56.6	55.7	54.7	53.7	52.8	51.8	50.9	50.0
38	59.3	58.3	57.3	56.4	55.4	54.4	53.5	52.6	51.6	50.7
39	59.9	58.9	57.9	57.0	56.1	55.1	54.2	53.3	52.4	51.5
40	60.4	59.5	58.6	57.6	56.7	55.8	54.9	54.0	53.1	52.2
41	61.0	60.1	59.1	58.2	57.3	56.4	55.5	54.6	53.7	52.8
42	61.5	60.6	59.7	58.8	57.9	57.0	56.1	55.2	54.4	53.5
43	62.0	61.1	60.2	59.3	58.4	57.6	56.7	55.8	55.0	54.1
44	62.5	61.6	60.7	59.9	59.0	58.1	57.3	56.4	55.5	54.7
45	63.0	62.1	61.2	60.4	59.5	58.6	57.8	56.9	56.1	55.3
46	63.5	62.6	61.7	60.9	60.0	59.2	58.3	57.5	56.6	55.8
47	63.9	63.0	62.2	61.3	60.5	59.6	58.8	58.0	57.2	56.4
48	64.3	63.5	62.6	61.8	60.9	60.1	59.3	58.5	57.7	56.9
49	64.7	63.9	63.1	62.2	61.4	60.6	59.8	59.0	58.2	57.4
50	65.1	64.3	63.5	62.6	61.8	61.0	60.2	59.4	58.6	57.8
51	65.5	64.7	63.9	63.1	62.2	61.4	60.6	59.9	59.1	58.3
52	65.9	65.1	64.3	63.4	62.6	61.9	61.1	60.3	59.5	58.7
53	66.2	65.4	64.6	63.8	63.0	62.3	61.5	60.7	59.9	59.2
54	66.6	65.8	65.0	64.2	63.4	62.6	61.9	61.1	60.3	59.6
55	66.9	66.1	65.3	64.6	63.8	63.0	62.2	61.5	60.7	60.0
56	67.3	66.5	65.7	64.9	64.1	63.4	62.6	61.9	61.1	60.4
57	67.6	66.8	66.0	65.2	64.5	63.7	63.0	62.2	61.5	60.8

表 4b（续）

$t-t_w$ \ t	7.2	7.4	7.6	7.8	8.0	8.2	8.4	8.6	8.8	9.0
58	67.9	67.1	66.3	65.6	64.8	64.1	63.3	62.6	61.9	61.1
59	68.2	67.4	66.7	65.9	65.1	64.4	63.7	62.9	62.2	61.5
60	68.5	67.7	67.0	66.2	65.5	64.7	64.0	63.3	62.5	61.8
61	68.8	68.0	67.3	66.5	65.8	65.0	64.3	63.6	62.9	62.2
62	69.0	68.3	67.5	66.8	66.1	65.4	64.6	63.9	63.2	62.5
63	69.3	68.6	67.8	67.1	66.4	65.7	64.9	64.2	63.5	62.8
64	69.6	68.8	68.1	67.4	66.7	65.9	65.2	64.5	63.8	63.1
65	69.8	69.1	68.4	67.7	66.9	66.2	65.5	64.8	64.1	63.4
66	70.1	69.4	68.6	67.9	67.2	66.5	65.8	65.1	64.4	63.7
67	70.3	69.6	68.9	68.2	67.5	66.8	66.1	65.4	64.7	64.0
68	70.6	69.9	69.1	68.4	67.7	67.0	66.4	65.7	65.0	64.3
69	70.8	70.1	69.4	68.7	68.0	67.3	66.6	65.9	65.3	64.6
70	71.0	70.3	69.6	68.9	68.2	67.6	66.9	66.2	65.5	64.9
71	71.3	70.6	69.9	69.2	68.5	67.8	67.1	66.5	65.8	65.1
72	71.5	70.8	70.1	69.4	68.7	68.1	67.4	66.7	66.1	65.4
73	71.7	71.0	70.3	69.6	69.0	68.3	67.6	67.0	66.3	65.7
74	71.9	71.2	70.5	69.9	69.2	68.5	67.9	67.2	66.6	65.9
75	72.1	71.4	70.8	70.1	69.4	68.8	68.1	67.5	66.8	66.2
76	72.3	71.6	71.0	70.3	69.6	69.0	68.3	67.7	67.1	66.4
77	72.5	71.9	71.2	70.5	69.9	69.2	68.6	67.9	67.3	66.7
78	72.7	72.1	71.4	70.7	70.1	69.4	68.8	68.2	67.5	66.9
79	72.9	72.3	71.6	70.9	70.3	69.6	69.0	68.4	67.7	67.1
80	73.1	72.4	71.8	71.1	70.5	69.9	69.2	68.6	68.0	67.3
81	73.3	72.6	72.0	71.3	70.7	70.1	69.4	68.8	68.2	67.6
82	73.5	72.8	72.2	71.5	70.9	70.3	69.6	69.0	68.4	67.8
83	73.7	73.0	72.4	71.7	71.1	70.5	69.8	69.2	68.6	68.0
84	73.8	73.2	72.6	71.9	71.3	70.7	70.0	69.4	68.8	68.2
85	74.0	73.4	72.7	72.1	71.5	70.9	70.2	69.6	69.0	68.4
86	74.2	73.6	72.9	72.3	71.7	71.1	70.4	69.8	69.2	68.6
87	74.4	73.7	73.1	72.5	71.9	71.2	70.6	70.0	69.4	68.8
88	74.5	73.9	73.3	72.7	72.0	71.4	70.8	70.2	69.6	69.0
89	74.7	74.1	73.4	72.8	72.2	71.6	71.0	70.4	69.8	69.2
90	74.9	74.2	73.6	73.0	72.4	71.8	71.2	70.6	70.0	69.4
91	75.0	74.4	73.8	73.2	72.6	72.0	71.4	70.8	70.2	69.6
92	75.2	74.6	74.0	73.4	72.7	72.2	71.6	71.0	70.4	69.8
93	75.3	74.7	74.1	73.5	72.9	72.3	71.7	71.2	70.6	70.0
94	75.5	74.9	74.3	73.7	73.1	72.5	71.9	71.3	70.7	70.2
95	75.6	75.0	74.4	73.8	73.3	72.7	72.1	71.5	70.9	70.4
96	75.8	75.2	74.6	74.0	73.4	72.8	72.3	71.7	71.1	70.5
97	75.9	75.3	74.8	74.2	73.6	73.0	72.4	71.8	71.3	70.7
98	76.1	75.5	74.9	74.3	73.7	73.2	72.6	72.0	71.5	70.9
99	76.2	75.6	75.1	74.5	73.9	73.3	72.8	72.2	71.6	71.1
100	76.4	75.8	75.2	74.6	74.1	73.5	72.9	72.4	71.8	71.2

表 4b（续）

$t-t_w$ / t	9.2	9.4	9.6	9.8	10.0	10.2	10.4	10.6	10.8	11.0
15	15.5	13.9	12.3	10.7	9.2	7.6	6.1	4.6	3.0	1.5
16	18.1	16.6	15.1	13.6	12.1	10.6	9.1	7.6	6.1	4.7
17	20.6	19.2	17.7	16.2	14.8	13.3	11.9	10.5	9.0	7.6
18	23.0	21.5	20.1	18.7	17.3	15.9	14.5	13.1	11.8	10.4
19	25.2	23.8	22.4	21.0	19.7	18.3	17.0	15.6	14.3	13.0
20	27.2	25.9	24.5	23.2	21.9	20.6	19.3	18.0	16.7	15.4
21	29.2	27.9	26.6	25.3	24.0	22.7	21.5	20.2	19.0	17.7
22	31.0	29.7	28.5	27.2	26.0	24.7	23.5	22.3	21.1	19.9
23	32.7	31.5	30.3	29.0	27.8	26.6	25.4	24.2	23.1	21.9
24	34.3	33.1	31.9	30.8	29.6	28.4	27.2	26.1	24.9	23.8
25	35.9	34.7	33.5	32.4	31.2	30.1	29.0	27.8	26.7	25.6
26	37.3	36.2	35.0	33.9	32.8	31.7	30.6	29.5	28.4	27.3
27	38.7	37.6	36.5	35.4	34.3	33.2	32.1	31.0	30.0	28.9
28	40.0	38.9	37.8	36.7	35.7	34.6	33.5	32.5	31.5	30.4
29	41.2	40.1	39.1	38.0	37.0	35.9	34.9	33.9	32.9	31.9
30	42.4	41.3	40.3	39.2	38.2	37.2	36.2	35.2	34.2	33.2
31	43.5	42.4	41.4	40.4	39.4	38.4	37.4	36.4	35.5	34.5
32	44.5	43.5	42.5	41.5	40.5	39.6	38.6	37.6	36.7	35.7
33	45.5	44.5	43.5	42.6	41.6	40.7	39.7	38.8	37.8	36.9
34	46.5	45.5	44.5	43.6	42.6	41.7	40.8	39.8	38.9	38.0
35	47.4	46.4	45.5	44.5	43.6	42.7	41.8	40.9	39.9	39.1
36	48.2	47.3	46.4	45.4	44.5	43.6	42.7	41.8	40.9	40.1
37	49.0	48.1	47.2	46.3	45.4	44.5	43.6	42.7	41.9	41.0
38	49.8	48.9	48.0	47.1	46.2	45.4	44.5	43.6	42.8	41.9
39	50.6	49.7	48.8	47.9	47.0	46.2	45.3	44.5	43.6	42.8
40	51.3	50.4	49.5	48.7	47.8	47.0	46.1	45.3	44.5	43.6
41	52.0	51.1	50.2	49.4	48.6	47.7	46.9	46.1	45.2	44.4
42	52.6	51.8	50.9	50.1	49.3	48.4	47.6	46.8	46.0	45.2
43	53.3	52.4	51.6	50.8	49.9	49.1	48.3	47.5	46.7	45.9
44	53.9	53.0	52.2	51.4	50.6	49.8	49.0	48.2	47.4	46.6
45	54.4	53.6	52.8	52.0	51.2	50.4	49.6	48.8	48.1	47.3
46	55.0	54.2	53.4	52.6	51.8	51.0	50.2	49.5	48.7	47.9
47	55.5	54.7	54.0	53.2	52.4	51.6	50.8	50.1	49.3	48.6
48	56.1	55.3	54.5	53.7	52.9	52.2	51.4	50.7	49.9	49.2
49	56.6	55.8	55.0	54.2	53.5	52.7	52.0	51.2	50.5	49.7
50	57.1	56.3	55.5	54.7	54.0	53.2	52.5	51.8	51.0	50.3
51	57.5	56.8	56.0	55.2	54.5	53.7	53.0	52.3	51.6	50.8
52	58.0	57.2	56.5	55.7	55.0	54.2	53.5	52.8	52.1	51.4
53	58.4	57.7	56.9	56.2	55.4	54.7	54.0	53.3	52.6	51.9
54	58.8	58.1	57.4	56.6	55.9	55.2	54.5	53.7	53.0	52.3
55	59.2	58.5	57.8	57.1	56.3	55.6	54.9	54.2	53.5	52.8
56	59.6	58.9	58.2	57.5	56.8	56.0	55.3	54.7	54.0	53.3
57	60.0	59.3	58.6	57.9	57.2	56.5	55.8	55.1	54.4	53.7

表 4b（续）

$t-t_w$ ／ t	9.2	9.4	9.6	9.8	10.0	10.2	10.4	10.6	10.8	11.0
58	60.4	59.7	59.0	58.3	57.6	56.9	56.2	55.5	54.8	54.1
59	60.8	60.1	59.4	58.7	58.0	57.3	56.6	55.9	55.2	54.6
60	61.1	60.4	59.7	59.0	58.3	57.7	57.0	56.3	55.6	55.0
61	61.5	60.8	60.1	59.4	58.7	58.0	57.4	56.7	56.0	55.4
62	61.8	61.1	60.4	59.7	59.1	58.4	57.7	57.1	56.4	55.7
63	62.1	61.4	60.8	60.1	59.4	58.7	58.1	57.4	56.8	56.1
64	62.5	61.8	61.1	60.4	59.8	59.1	58.4	57.8	57.1	56.5
65	62.8	62.1	61.4	60.7	60.1	59.4	58.8	58.1	57.5	56.8
66	63.1	62.4	61.7	61.1	60.4	59.8	59.1	58.5	57.8	57.2
67	63.4	62.7	62.0	61.4	60.7	60.1	59.4	58.8	58.2	57.5
68	63.7	63.0	62.3	61.7	61.0	60.4	59.8	59.1	58.5	57.9
69	63.9	63.3	62.6	62.0	61.3	60.7	60.1	59.4	58.8	58.2
70	64.2	63.6	62.9	62.3	61.6	61.0	60.4	59.7	59.1	58.5
71	64.5	63.8	63.2	62.6	61.9	61.3	60.7	60.0	59.4	58.8
72	64.8	64.1	63.5	62.8	62.2	61.6	61.0	60.3	59.7	59.1
73	65.0	64.4	63.7	63.1	62.5	61.9	61.2	60.6	60.0	59.4
74	65.3	64.6	64.0	63.4	62.8	62.1	61.5	60.9	60.3	59.7
75	65.5	64.9	64.3	63.6	63.0	62.4	61.8	61.2	60.6	60.0
76	65.8	65.1	64.5	63.9	63.3	62.7	62.1	61.5	60.9	60.3
77	66.0	65.4	64.8	64.2	63.5	62.9	62.3	61.7	61.1	60.5
78	66.3	65.6	65.0	64.4	63.8	63.2	62.6	62.0	61.4	60.8
79	66.5	65.9	65.3	64.7	64.0	63.4	62.9	62.3	61.7	61.1
80	66.7	66.1	65.5	64.9	64.3	63.7	63.1	62.5	61.9	61.3
81	67.0	66.3	65.7	65.1	64.5	63.9	63.3	62.8	62.2	61.6
82	67.2	66.6	66.0	65.4	64.8	64.2	63.6	63.0	62.4	61.9
83	67.4	66.8	66.2	65.6	65.0	64.4	63.8	63.3	62.7	62.1
84	67.6	67.0	66.4	65.8	65.2	64.6	64.1	63.5	62.9	62.4
85	67.8	67.2	66.6	66.0	65.5	64.9	64.3	63.7	63.2	62.6
86	68.0	67.4	66.8	66.3	65.7	65.1	64.5	64.0	63.4	62.8
87	68.2	67.6	67.1	66.5	65.9	65.3	64.8	64.2	63.6	63.1
88	68.4	67.9	67.3	66.7	66.1	65.5	65.0	64.4	63.9	63.3
89	68.6	68.1	67.5	66.9	66.3	65.8	65.2	64.6	64.1	63.5
90	68.8	68.3	67.7	67.1	66.5	66.0	65.4	64.9	64.3	63.7
91	69.0	68.5	67.9	67.3	66.7	66.2	65.6	65.1	64.5	64.0
92	69.2	68.6	68.1	67.5	66.9	66.4	65.8	65.3	64.7	64.2
93	69.4	68.8	68.3	67.7	67.1	66.6	66.0	65.5	64.9	64.4
94	69.6	69.0	68.5	67.9	67.3	66.8	66.2	65.7	65.2	64.6
95	69.8	69.2	68.7	68.1	67.5	67.0	66.4	65.9	65.4	64.8
96	70.0	69.4	68.8	68.3	67.7	67.2	66.6	66.1	65.6	65.0
97	70.1	69.6	69.0	68.5	67.9	67.4	66.8	66.3	65.8	65.2
98	70.3	69.8	69.2	68.7	68.1	67.6	67.0	66.5	66.0	65.4
99	70.5	69.9	69.4	68.8	68.3	67.8	67.2	66.7	66.2	65.6
100	70.7	70.1	69.6	69.0	68.5	68.0	67.4	66.9	66.4	65.8

表 4b（续）

$t-t_w$ / t	11.5	12.0	12.5	13.5	13.5	14.0	14.5	15.0	15.5	16.0
15										
16	1.1									
17	4.1	0.7								
18	7.0	3.7	0.4							
19	9.7	6.5	3.3	0.2						
20	12.3	9.1	6.1	3.1	0.1					
21	14.6	11.6	8.7	5.7	2.8					
22	16.9	14.0	11.1	8.2	5.4	2.7				
23	19.0	16.1	13.3	10.6	7.9	5.2	2.6			
24	21.0	18.2	15.5	12.8	10.2	7.6	5.0	2.5	0.0	
25	22.9	20.2	17.5	14.9	12.3	9.8	7.3	4.9	2.5	0.1
26	24.6	22.0	19.4	16.9	14.4	11.9	9.5	7.1	4.8	2.5
27	26.3	23.7	21.2	18.7	16.3	13.9	11.5	9.2	6.9	4.7
28	27.9	25.4	22.9	20.5	18.1	15.8	13.5	11.2	9.0	6.8
29	29.4	26.9	24.5	22.2	19.8	17.5	15.3	13.1	10.9	8.8
30	30.8	28.4	26.0	23.7	21.5	19.2	17.0	14.9	12.8	10.7
31	32.1	29.8	27.5	25.2	23.0	20.8	18.7	16.6	14.5	12.5
32	33.4	31.1	28.8	26.6	24.5	22.3	20.2	18.2	16.1	14.1
33	34.6	32.4	30.1	28.0	25.8	23.8	21.7	19.7	17.7	15.7
34	35.8	33.5	31.4	29.3	27.2	25.1	23.1	21.1	19.2	17.3
35	36.8	34.7	32.6	30.5	28.4	26.4	24.4	22.5	20.6	18.7
36	37.9	35.8	33.7	31.6	29.6	27.6	25.7	23.8	21.9	20.1
37	38.9	36.8	34.7	32.7	30.7	28.8	26.9	25.0	23.2	21.4
38	39.8	37.8	35.7	33.8	31.8	29.9	28.0	26.2	24.4	22.6
39	40.7	38.7	36.7	34.8	32.8	31.0	29.1	27.3	25.5	23.8
40	41.6	39.6	37.6	35.7	33.8	32.0	30.2	28.4	26.6	24.9
41	42.4	40.4	38.5	36.6	34.8	32.9	31.2	29.4	27.7	26.0
42	43.2	41.3	39.4	37.5	35.7	33.9	32.1	30.4	28.7	27.0
43	44.0	42.1	40.2	38.3	36.5	34.8	33.0	31.3	29.6	28.0
44	44.7	42.8	41.0	39.1	37.4	35.6	33.9	32.2	30.6	28.9
45	45.4	43.5	41.7	39.9	38.1	36.4	34.7	33.1	31.4	29.8
46	46.1	44.2	42.4	40.6	38.9	37.2	35.5	33.9	32.3	30.7
47	46.7	44.9	43.1	41.4	39.6	38.0	36.3	34.7	33.1	31.5
48	47.3	45.5	43.8	42.0	40.3	38.7	37.0	35.4	33.9	32.3
49	47.9	46.1	44.4	42.7	41.0	39.4	37.8	36.2	34.6	33.1
50	48.5	46.7	45.0	43.3	41.7	40.0	38.4	36.9	35.3	33.8
51	49.1	47.3	45.6	43.9	42.3	40.7	39.1	37.6	36.0	34.5
52	49.6	47.9	46.2	44.5	42.9	41.3	39.7	38.2	36.7	35.2
53	50.1	48.4	46.7	45.1	43.5	41.9	40.4	38.8	37.4	35.9
54	50.6	48.9	47.3	45.6	44.1	42.5	41.0	39.5	38.0	36.5
55	51.1	49.4	47.8	46.2	44.6	43.1	41.5	40.0	38.6	37.1
56	51.6	49.9	48.3	46.7	45.1	43.6	42.1	40.6	39.2	37.7
57	52.0	50.4	48.8	47.2	45.6	44.1	42.6	41.2	39.7	38.3

表 4b（续）

$t-t_w$ / t	11.5	12.0	12.5	13.5	13.5	14.0	14.5	15.0	15.5	16.0
58	52.5	50.9	49.3	47.7	46.1	44.6	43.2	41.7	40.3	38.9
59	52.9	51.3	49.7	48.2	46.6	45.1	43.7	42.2	40.8	39.4
60	53.3	51.7	50.2	48.6	47.1	45.6	44.2	42.7	41.3	39.9
61	53.7	52.1	50.6	49.1	47.6	46.1	44.6	43.2	41.8	40.5
62	54.1	52.6	51.0	49.5	48.0	46.5	45.1	43.7	42.3	40.9
63	54.5	53.0	51.4	49.9	48.4	47.0	45.5	44.1	42.8	41.4
64	54.9	53.3	51.8	50.3	48.8	47.4	46.0	44.6	43.2	41.9
65	55.3	53.7	52.2	50.7	49.3	47.8	46.4	45.0	43.7	42.4
66	55.6	54.1	52.6	51.1	49.7	48.2	46.8	45.5	44.1	42.8
67	56.0	54.5	53.0	51.5	50.0	48.6	47.2	45.9	44.5	43.2
68	56.3	54.8	53.3	51.9	50.4	49.0	47.6	46.3	45.0	43.7
69	56.7	55.1	53.7	52.2	50.8	49.4	48.0	46.7	45.4	44.1
70	57.0	55.5	54.0	52.6	51.2	49.8	48.4	47.1	45.8	44.5
71	57.3	55.8	54.4	52.9	51.5	50.1	48.8	47.5	46.2	44.9
72	57.6	56.1	54.7	53.3	51.9	50.5	49.1	47.8	46.5	45.3
73	57.9	56.5	55.0	53.6	52.2	50.8	49.5	48.2	46.9	45.6
74	58.2	56.8	55.3	53.9	52.5	51.2	49.9	48.5	47.3	46.0
75	58.5	57.1	55.6	54.2	52.9	51.5	50.2	48.9	47.6	46.4
76	58.8	57.4	55.9	54.6	53.2	51.9	50.5	49.2	48.0	46.7
77	59.1	57.7	56.2	54.9	53.5	52.2	50.9	49.6	48.3	47.1
78	59.4	57.9	56.5	55.2	53.8	52.5	51.2	49.9	48.6	47.4
79	59.6	58.2	56.8	55.5	54.1	52.8	51.5	50.2	49.0	47.7
80	59.9	58.5	57.1	55.8	54.4	53.1	51.8	50.5	49.3	48.1
81	60.2	58.8	57.4	56.0	54.7	53.4	52.1	50.9	49.6	48.4
82	60.4	59.0	57.7	56.3	55.0	53.7	52.4	51.2	49.9	48.7
83	60.7	59.3	57.9	56.6	55.3	54.0	52.7	51.5	50.2	49.0
84	60.9	59.6	58.2	56.9	55.6	54.3	53.0	51.8	50.5	49.3
85	61.2	59.8	58.5	57.1	55.8	54.6	53.3	52.1	50.8	49.6
86	61.4	60.1	58.7	57.4	56.1	54.8	53.6	52.3	51.1	49.9
87	61.7	60.3	59.0	57.7	56.4	55.1	53.9	52.6	51.4	50.2
88	61.9	60.6	59.2	57.9	56.6	55.4	54.1	52.9	51.7	50.5
89	62.2	60.8	59.5	58.2	56.9	55.6	54.4	53.2	52.0	50.8
90	62.4	61.0	59.7	58.4	57.2	55.9	54.7	53.5	52.3	51.1
91	62.6	61.3	60.0	58.7	57.4	56.2	54.9	53.7	52.5	51.4
92	62.8	61.5	60.2	58.9	57.7	56.4	55.2	54.0	52.8	51.6
93	63.1	61.7	60.4	59.2	57.9	56.7	55.5	54.3	53.1	51.9
94	63.3	62.0	60.7	59.4	58.1	56.9	55.7	54.5	53.3	52.2
95	63.5	62.2	60.9	59.6	58.4	57.2	56.0	54.8	53.6	52.5
96	63.7	62.4	61.1	59.9	58.6	57.4	56.2	55.0	53.9	52.7
97	63.9	62.6	61.3	60.1	58.9	57.6	56.4	55.3	54.1	53.0
98	64.1	62.8	61.6	60.3	59.1	57.9	56.7	55.5	54.4	53.2
99	64.3	63.0	61.8	60.5	59.3	58.1	56.9	55.8	54.6	53.5
100	64.5	63.3	62.0	60.8	59.5	58.3	57.2	56.0	54.8	53.7

表 4c 球状、柱状水银温度表相对湿度查算表

$$P=90 \text{ kPa}, A=0.662 \times 10^{-3} \text{℃}^{-1} (2.5 \text{ m/s})$$

$t-t_w$ / t	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0
15	100.0	99.0	98.0	97.0	96.1	95.1	94.1	93.1	92.2	91.2	90.2
16	100.0	99.0	98.1	97.1	96.2	95.2	94.3	93.3	92.4	91.4	90.5
17	100.0	99.1	98.1	97.2	96.3	95.3	94.4	93.5	92.6	91.7	90.8
18	100.0	99.1	98.2	97.3	96.4	95.5	94.6	93.7	92.8	91.9	91.0
19	100.0	99.1	98.2	97.3	96.4	95.6	94.7	93.8	92.9	92.1	91.2
20	100.0	99.1	98.3	97.4	96.5	95.7	94.8	94.0	93.1	92.3	91.4
21	100.0	99.1	98.3	97.5	96.6	95.8	94.9	94.1	93.3	92.4	91.6
22	100.0	99.2	98.3	97.5	96.7	95.9	95.0	94.2	93.4	92.6	91.8
23	100.0	99.2	98.4	97.6	96.8	96.0	95.2	94.4	93.6	92.8	92.0
24	100.0	99.2	98.4	97.6	96.8	96.0	95.3	94.5	93.7	92.9	92.2
25	100.0	99.2	98.4	97.7	96.9	96.1	95.3	94.6	93.8	93.1	92.3
26	100.0	99.2	98.5	97.7	96.9	96.2	95.4	94.7	93.9	93.2	92.5
27	100.0	99.2	98.5	97.8	97.0	96.3	95.5	94.8	94.1	93.3	92.6
28	100.0	99.3	98.5	97.8	97.1	96.3	95.6	94.9	94.2	93.5	92.7
29	100.0	99.3	98.6	97.8	97.1	96.4	95.7	95.0	94.3	93.6	92.9
30	100.0	99.3	98.6	97.9	97.2	96.5	95.8	95.1	94.4	93.7	93.0
31	100.0	99.3	98.6	97.9	97.2	96.5	95.8	95.2	94.5	93.8	93.1
32	100.0	99.3	98.6	97.9	97.3	96.6	95.9	95.2	94.6	93.9	93.2
33	100.0	99.3	98.6	98.0	97.3	96.6	96.0	95.3	94.6	94.0	93.3
34	100.0	99.3	98.7	98.0	97.3	96.7	96.0	95.4	94.7	94.1	93.4
35	100.0	99.3	98.7	98.0	97.4	96.7	96.1	95.5	94.8	94.2	93.5
36	100.0	99.4	98.7	98.1	97.4	96.8	96.2	95.5	94.9	94.3	93.6
37	100.0	99.4	98.7	98.1	97.5	96.8	96.2	95.6	95.0	94.3	93.7
38	100.0	99.4	98.7	98.1	97.5	96.9	96.3	95.6	95.0	94.4	93.8
39	100.0	99.4	98.8	98.1	97.5	96.9	96.3	95.7	95.1	94.5	93.9
40	100.0	99.4	98.8	98.2	97.6	97.0	96.4	95.8	95.2	94.6	94.0
41	100.0	99.4	98.8	98.2	97.6	97.0	96.4	95.8	95.2	94.6	94.1
42	100.0	99.4	98.8	98.2	97.6	97.0	96.5	95.9	95.3	94.7	94.1
43	100.0	99.4	98.8	98.2	97.7	97.1	96.5	95.9	95.3	94.8	94.2
44	100.0	99.4	98.8	98.3	97.7	97.1	96.5	96.0	95.4	94.8	94.3
45	100.0	99.4	98.9	98.3	97.7	97.1	96.6	96.0	95.5	94.9	94.3
46	100.0	99.4	98.9	98.3	97.7	97.2	96.6	96.1	95.5	95.0	94.4
47	100.0	99.4	98.9	98.3	97.8	97.2	96.7	96.1	95.6	95.0	94.5
48	100.0	99.4	98.9	98.3	97.8	97.2	96.7	96.2	95.6	95.1	94.5
49	100.0	99.5	98.9	98.4	97.8	97.3	96.7	96.2	95.7	95.1	94.6
50	100.0	99.5	98.9	98.4	97.8	97.3	96.8	96.2	95.7	95.2	94.7
51	100.0	99.5	98.9	98.4	97.9	97.3	96.8	96.3	95.8	95.2	94.7
52	100.0	99.5	98.9	98.4	97.9	97.4	96.8	96.3	95.8	95.3	94.8
53	100.0	99.5	98.9	98.4	97.9	97.4	96.9	96.4	95.8	95.3	94.8
54	100.0	99.5	99.0	98.4	97.9	97.4	96.9	96.4	95.9	95.4	94.9
55	100.0	99.5	99.0	98.5	97.9	97.4	96.9	96.4	95.9	95.4	94.9
56	100.0	99.5	99.0	98.5	98.0	97.5	97.0	96.5	96.0	95.5	95.0
57	100.0	99.5	99.0	98.5	98.0	97.5	97.0	96.5	96.0	95.5	95.0

表 4c（续）

$t \diagdown t-t_w$	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0
58	100.0	99.5	99.0	98.5	98.0	97.5	97.0	96.5	96.0	95.6	95.1
59	100.0	99.5	99.0	98.5	98.0	97.5	97.0	96.6	96.1	95.6	95.1
60	100.0	99.5	99.0	98.5	98.0	97.6	97.1	96.6	96.1	95.6	95.2
61	100.0	99.5	99.0	98.5	98.1	97.6	97.1	96.6	96.2	95.7	95.2
62	100.0	99.5	99.0	98.6	98.1	97.6	97.1	96.7	96.2	95.7	95.2
63	100.0	99.5	99.0	98.6	98.1	97.6	97.2	96.7	96.2	95.8	95.3
64	100.0	99.5	99.1	98.6	98.1	97.6	97.2	96.7	96.3	95.8	95.3
65	100.0	99.5	99.1	98.6	98.1	97.7	97.2	96.7	96.3	95.8	95.4
66	100.0	99.5	99.1	98.6	98.1	97.7	97.2	96.8	96.3	95.9	95.4
67	100.0	99.5	99.1	98.6	98.2	97.7	97.3	96.8	96.3	95.9	95.5
68	100.0	99.5	99.1	98.6	98.2	97.7	97.3	96.8	96.4	95.9	95.5
69	100.0	99.5	99.1	98.6	98.2	97.7	97.3	96.9	96.4	96.0	95.5
70	100.0	99.5	99.1	98.7	98.2	97.8	97.3	96.9	96.4	96.0	95.6
71	100.0	99.6	99.1	98.7	98.2	97.8	97.3	96.9	96.5	96.0	95.6
72	100.0	99.6	99.1	98.7	98.2	97.8	97.4	96.9	96.5	96.1	95.6
73	100.0	99.6	99.1	98.7	98.2	97.8	97.4	97.0	96.5	96.1	95.7
74	100.0	99.6	99.1	98.7	98.3	97.8	97.4	97.0	96.5	96.1	95.7
75	100.0	99.6	99.1	98.7	98.3	97.8	97.4	97.0	96.6	96.2	95.7
76	100.0	99.6	99.1	98.7	98.3	97.9	97.4	97.0	96.6	96.2	95.8
77	100.0	99.6	99.1	98.7	98.3	97.9	97.5	97.0	96.6	96.2	95.8
78	100.0	99.6	99.2	98.7	98.3	97.9	97.5	97.1	96.7	96.2	95.8
79	100.0	99.6	99.2	98.7	98.3	97.9	97.5	97.1	96.7	96.3	95.9
80	100.0	99.6	99.2	98.8	98.3	97.9	97.5	97.1	96.7	96.3	95.9
81	100.0	99.6	99.2	98.8	98.4	97.9	97.5	97.1	96.7	96.3	95.9
82	100.0	99.6	99.2	98.8	98.4	98.0	97.6	97.2	96.8	96.4	96.0
83	100.0	99.6	99.2	98.8	98.4	98.0	97.6	97.2	96.8	96.4	96.0
84	100.0	99.6	99.2	98.8	98.4	98.0	97.6	97.2	96.8	96.4	96.0
85	100.0	99.6	99.2	98.8	98.4	98.0	97.6	97.2	96.8	96.4	96.0
86	100.0	99.6	99.2	98.8	98.4	98.0	97.6	97.2	96.8	96.5	96.1
87	100.0	99.6	99.2	98.8	98.4	98.0	97.6	97.3	96.9	96.5	96.1
88	100.0	99.6	99.2	98.8	98.4	98.0	97.7	97.3	96.9	96.5	96.1
89	100.0	99.6	99.2	98.8	98.4	98.1	97.7	97.3	96.9	96.5	96.1
90	100.0	99.6	99.2	98.8	98.5	98.1	97.7	97.3	96.9	96.6	96.2
91	100.0	99.6	99.2	98.8	98.5	98.1	97.7	97.3	97.0	96.6	96.2
92	100.0	99.6	99.2	98.9	98.5	98.1	97.7	97.3	97.0	96.6	96.2
93	100.0	99.6	99.2	98.9	98.5	98.1	97.7	97.4	97.0	96.6	96.3
94	100.0	99.6	99.2	98.9	98.5	98.1	97.8	97.4	97.0	96.6	96.3
95	100.0	99.6	99.3	98.9	98.5	98.1	97.8	97.4	97.0	96.7	96.3
96	100.0	99.6	99.3	98.9	98.5	98.2	97.8	97.4	97.1	96.7	96.3
97	100.0	99.6	99.3	98.9	98.5	98.2	97.8	97.4	97.1	96.7	96.4
98	100.0	99.6	99.3	98.9	98.5	98.2	97.8	97.5	97.1	96.7	96.4
99	100.0	99.6	99.3	98.9	98.5	98.2	97.8	97.5	97.1	96.8	96.4
100	100.0	99.6	99.3	98.9	98.6	98.2	97.8	97.5	97.1	96.8	96.4

表 4c（续）

$t-t_w$ t	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0
15	89.3	88.3	87.4	86.4	85.5	84.6	83.6	82.7	81.8	80.8
16	89.6	88.7	87.7	86.8	85.9	85.0	84.1	83.2	82.3	81.4
17	89.9	88.9	88.0	87.2	86.3	85.4	84.5	83.6	82.7	81.8
18	90.1	89.2	88.4	87.5	86.6	85.7	84.9	84.0	83.2	82.3
19	90.4	89.5	88.6	87.8	86.9	86.1	85.3	84.4	83.6	82.8
20	90.6	89.7	88.9	88.1	87.3	86.4	85.6	84.8	84.0	83.2
21	90.8	90.0	89.2	88.4	87.5	86.7	85.9	85.1	84.3	83.6
22	91.0	90.2	89.4	88.6	87.8	87.0	86.3	85.5	84.7	83.9
23	91.2	90.4	89.6	88.9	88.1	87.3	86.6	85.8	85.0	84.3
24	91.4	90.6	89.9	89.1	88.3	87.6	86.8	86.1	85.3	84.6
25	91.6	90.8	90.1	89.3	88.6	87.8	87.1	86.4	85.6	84.9
26	91.7	91.0	90.3	89.5	88.8	88.1	87.4	86.6	85.9	85.2
27	91.9	91.2	90.4	89.7	89.0	88.3	87.6	86.9	86.2	85.5
28	92.0	91.3	90.6	89.9	89.2	88.5	87.8	87.1	86.5	85.8
29	92.2	91.5	90.8	90.1	89.4	88.7	88.1	87.4	86.7	86.0
30	92.3	91.6	91.0	90.3	89.6	88.9	88.3	87.6	86.9	86.3
31	92.4	91.8	91.1	90.4	89.8	89.1	88.5	87.8	87.2	86.5
32	92.6	91.9	91.3	90.6	89.9	89.3	88.6	88.0	87.4	86.7
33	92.7	92.0	91.4	90.7	90.1	89.5	88.8	88.2	87.6	86.9
34	92.8	92.2	91.5	90.9	90.3	89.6	89.0	88.4	87.8	87.1
35	92.9	92.3	91.7	91.0	90.4	89.8	89.2	88.6	87.9	87.3
36	93.0	92.4	91.8	91.2	90.5	89.9	89.3	88.7	88.1	87.5
37	93.1	92.5	91.9	91.3	90.7	90.1	89.5	88.9	88.3	87.7
38	93.2	92.6	92.0	91.4	90.8	90.2	89.6	89.0	88.5	87.9
39	93.3	92.7	92.1	91.5	90.9	90.4	89.8	89.2	88.6	88.0
40	93.4	92.8	92.2	91.6	91.1	90.5	89.9	89.3	88.8	88.2
41	93.5	92.9	92.3	91.8	91.2	90.6	90.0	89.5	88.9	88.4
42	93.6	93.0	92.4	91.9	91.3	90.7	90.2	89.6	89.1	88.5
43	93.6	93.1	92.5	92.0	91.4	90.8	90.3	89.7	89.2	88.6
44	93.7	93.2	92.6	92.1	91.5	91.0	90.4	89.9	89.3	88.8
45	93.8	93.2	92.7	92.2	91.6	91.1	90.5	90.0	89.5	88.9
46	93.9	93.3	92.8	92.2	91.7	91.2	90.6	90.1	89.6	89.0
47	93.9	93.4	92.9	92.3	91.8	91.3	90.7	90.2	89.7	89.2
48	94.0	93.5	92.9	92.4	91.9	91.4	90.8	90.3	89.8	89.3
49	94.1	93.5	93.0	92.5	92.0	91.5	90.9	90.4	89.9	89.4
50	94.1	93.6	93.1	92.6	92.1	91.6	91.0	90.5	90.0	89.5
51	94.2	93.7	93.2	92.7	92.1	91.6	91.1	90.6	90.1	89.6
52	94.3	93.7	93.2	92.7	92.2	91.7	91.2	90.7	90.2	89.7
53	94.3	93.8	93.3	92.8	92.3	91.8	91.3	90.8	90.3	89.8
54	94.4	93.9	93.4	92.9	92.4	91.9	91.4	90.9	90.4	89.9
55	94.4	93.9	93.4	93.0	92.5	92.0	91.5	91.0	90.5	90.0
56	94.5	94.0	93.5	93.0	92.5	92.1	91.6	91.1	90.6	90.1
57	94.5	94.1	93.6	93.1	92.6	92.1	91.7	91.2	90.7	90.2

表 4c（续）

$t-t_w$ / t	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0
58	94.6	94.1	93.6	93.2	92.7	92.2	91.7	91.3	90.8	90.3
59	94.6	94.2	93.7	93.2	92.7	92.3	91.8	91.3	90.9	90.4
60	94.7	94.2	93.7	93.3	92.8	92.3	91.9	91.4	91.0	90.5
61	94.7	94.3	93.8	93.3	92.9	92.4	92.0	91.5	91.0	90.6
62	94.8	94.3	93.9	93.4	92.9	92.5	92.0	91.6	91.1	90.7
63	94.8	94.4	93.9	93.5	93.0	92.5	92.1	91.6	91.2	90.8
64	94.9	94.4	94.0	93.5	93.1	92.6	92.2	91.7	91.3	90.8
65	94.9	94.5	94.0	93.6	93.1	92.7	92.2	91.8	91.3	90.9
66	95.0	94.5	94.1	93.6	93.2	92.7	92.3	91.9	91.4	91.0
67	95.0	94.6	94.1	93.7	93.2	92.8	92.4	91.9	91.5	91.1
68	95.0	94.6	94.2	93.7	93.3	92.9	92.4	92.0	91.6	91.1
69	95.1	94.6	94.2	93.8	93.3	92.9	92.5	92.1	91.6	91.2
70	95.1	94.7	94.3	93.8	93.4	93.0	92.5	92.1	91.7	91.3
71	95.2	94.7	94.3	93.9	93.5	93.0	92.6	92.2	91.8	91.3
72	95.2	94.8	94.4	93.9	93.5	93.1	92.7	92.2	91.8	91.4
73	95.2	94.8	94.4	94.0	93.6	93.1	92.7	92.3	91.9	91.5
74	95.3	94.9	94.4	94.0	93.6	93.2	92.8	92.4	92.0	91.5
75	95.3	94.9	94.5	94.1	93.7	93.2	92.8	92.4	92.0	91.6
76	95.4	94.9	94.5	94.1	93.7	93.3	92.9	92.5	92.1	91.7
77	95.4	95.0	94.6	94.2	93.8	93.3	92.9	92.5	92.1	91.7
78	95.4	95.0	94.6	94.2	93.8	93.4	93.0	92.6	92.2	91.8
79	95.5	95.1	94.6	94.2	93.8	93.4	93.0	92.7	92.3	91.9
80	95.5	95.1	94.7	94.3	93.9	93.5	93.1	92.7	92.3	91.9
81	95.5	95.1	94.7	94.3	93.9	93.5	93.1	92.8	92.4	92.0
82	95.6	95.2	94.8	94.4	94.0	93.6	93.2	92.8	92.4	92.0
83	95.6	95.2	94.8	94.4	94.0	93.6	93.2	92.9	92.5	92.1
84	95.6	95.2	94.8	94.5	94.1	93.7	93.3	92.9	92.5	92.1
85	95.7	95.3	94.9	94.5	94.1	93.7	93.3	93.0	92.6	92.2
86	95.7	95.3	94.9	94.5	94.1	93.8	93.4	93.0	92.6	92.3
87	95.7	95.3	94.9	94.6	94.2	93.8	93.4	93.1	92.7	92.3
88	95.7	95.4	95.0	94.6	94.2	93.9	93.5	93.1	92.7	92.4
89	95.8	95.4	95.0	94.6	94.3	93.9	93.5	93.2	92.8	92.4
90	95.8	95.4	95.1	94.7	94.3	93.9	93.6	93.2	92.8	92.5
91	95.8	95.5	95.1	94.7	94.3	94.0	93.6	93.2	92.9	92.5
92	95.9	95.5	95.1	94.8	94.4	94.0	93.7	93.3	92.9	92.6
93	95.9	95.5	95.2	94.8	94.4	94.1	93.7	93.3	93.0	92.6
94	95.9	95.5	95.2	94.8	94.5	94.1	93.7	93.4	93.0	92.7
95	95.9	95.6	95.2	94.9	94.5	94.1	93.8	93.4	93.1	92.7
96	96.0	95.6	95.2	94.9	94.5	94.2	93.8	93.5	93.1	92.8
97	96.0	95.6	95.3	94.9	94.6	94.2	93.9	93.5	93.2	92.8
98	96.0	95.7	95.3	95.0	94.6	94.3	93.9	93.6	93.2	92.9
99	96.0	95.7	95.3	95.0	94.6	94.3	93.9	93.6	93.3	92.9
100	96.1	95.7	95.4	95.0	94.7	94.3	94.0	93.6	93.3	93.0

表 4c（续）

t＼t−tw	2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9	3.0
15	79.9	79.0	78.1	77.2	76.3	75.3	74.4	73.5	72.6	71.8
16	80.5	79.6	78.7	77.8	76.9	76.0	75.1	74.3	73.4	72.5
17	81.0	80.1	79.2	78.4	77.5	76.7	75.8	75.0	74.1	73.3
18	81.5	80.6	79.8	78.9	78.1	77.3	76.4	75.6	74.8	74.0
19	81.9	81.1	80.3	79.5	78.6	77.8	77.0	76.2	75.4	74.6
20	82.4	81.6	80.7	79.9	79.2	78.4	77.6	76.8	76.0	75.2
21	82.8	82.0	81.2	80.4	79.6	78.9	78.1	77.3	76.6	75.8
22	83.2	82.4	81.6	80.9	80.1	79.3	78.6	77.8	77.1	76.3
23	83.5	82.8	82.0	81.3	80.5	79.8	79.1	78.3	77.6	76.9
24	83.9	83.1	82.4	81.7	80.9	80.2	79.5	78.8	78.1	77.3
25	84.2	83.5	82.8	82.0	81.3	80.6	79.9	79.2	78.5	77.8
26	84.5	83.8	83.1	82.4	81.7	81.0	80.3	79.6	78.9	78.2
27	84.8	84.1	83.4	82.7	82.0	81.4	80.7	80.0	79.3	78.7
28	85.1	84.4	83.7	83.1	82.4	81.7	81.0	80.4	79.7	79.1
29	85.4	84.7	84.0	83.4	82.7	82.0	81.4	80.7	80.1	79.4
30	85.6	85.0	84.3	83.7	83.0	82.4	81.7	81.1	80.4	79.8
31	85.9	85.2	84.6	83.9	83.3	82.7	82.0	81.4	80.8	80.1
32	86.1	85.5	84.8	84.2	83.6	82.9	82.3	81.7	81.1	80.5
33	86.3	85.7	85.1	84.4	83.8	83.2	82.6	82.0	81.4	80.8
34	86.5	85.9	85.3	84.7	84.1	83.5	82.9	82.3	81.7	81.1
35	86.7	86.1	85.5	84.9	84.3	83.7	83.1	82.5	82.0	81.4
36	86.9	86.3	85.7	85.1	84.6	84.0	83.4	82.8	82.2	81.7
37	87.1	86.5	85.9	85.4	84.8	84.2	83.6	83.1	82.5	81.9
38	87.3	86.7	86.1	85.6	85.0	84.4	83.9	83.3	82.7	82.2
39	87.5	86.9	86.3	85.8	85.2	84.6	84.1	83.5	83.0	82.4
40	87.6	87.1	86.5	86.0	85.4	84.8	84.3	83.7	83.2	82.6
41	87.8	87.2	86.7	86.1	85.6	85.0	84.5	84.0	83.4	82.9
42	88.0	87.4	86.9	86.3	85.8	85.2	84.7	84.2	83.6	83.1
43	88.1	87.6	87.0	86.5	85.9	85.4	84.9	84.4	83.8	83.3
44	88.2	87.7	87.2	86.6	86.1	85.6	85.1	84.5	84.0	83.5
45	88.4	87.9	87.3	86.8	86.3	85.8	85.2	84.7	84.2	83.7
46	88.5	88.0	87.5	87.0	86.4	85.9	85.4	84.9	84.4	83.9
47	88.7	88.1	87.6	87.1	86.6	86.1	85.6	85.1	84.6	84.1
48	88.8	88.3	87.8	87.2	86.7	86.2	85.7	85.2	84.7	84.2
49	88.9	88.4	87.9	87.4	86.9	86.4	85.9	85.4	84.9	84.4
50	89.0	88.5	88.0	87.5	87.0	86.5	86.0	85.6	85.1	84.6
51	89.1	88.6	88.1	87.7	87.2	86.7	86.2	85.7	85.2	84.7
52	89.2	88.8	88.3	87.8	87.3	86.8	86.3	85.9	85.4	84.9
53	89.4	88.9	88.4	87.9	87.4	86.9	86.5	86.0	85.5	85.1
54	89.5	89.0	88.5	88.0	87.6	87.1	86.6	86.1	85.7	85.2
55	89.6	89.1	88.6	88.1	87.7	87.2	86.7	86.3	85.8	85.3
56	89.7	89.2	88.7	88.3	87.8	87.3	86.9	86.4	85.9	85.5
57	89.8	89.3	88.8	88.4	87.9	87.4	87.0	86.5	86.1	85.6

表 4c（续）

$t-t_w$ / t	2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9	3.0
58	89.9	89.4	88.9	88.5	88.0	87.6	87.1	86.7	86.2	85.8
59	90.0	89.5	89.0	88.6	88.1	87.7	87.2	86.8	86.3	85.9
60	90.0	89.6	89.1	88.7	88.2	87.8	87.3	86.9	86.5	86.0
61	90.1	89.7	89.2	88.8	88.3	87.9	87.5	87.0	86.6	86.1
62	90.2	89.8	89.3	88.9	88.4	88.0	87.6	87.1	86.7	86.3
63	90.3	89.9	89.4	89.0	88.5	88.1	87.7	87.2	86.8	86.4
64	90.4	90.0	89.5	89.1	88.6	88.2	87.8	87.3	86.9	86.5
65	90.5	90.0	89.6	89.2	88.7	88.3	87.9	87.5	87.0	86.6
66	90.6	90.1	89.7	89.3	88.8	88.4	88.0	87.6	87.1	86.7
67	90.6	90.2	89.8	89.4	88.9	88.5	88.1	87.7	87.2	86.8
68	90.7	90.3	89.9	89.4	89.0	88.6	88.2	87.8	87.3	86.9
69	90.8	90.4	89.9	89.5	89.1	88.7	88.3	87.9	87.5	87.0
70	90.9	90.4	90.0	89.6	89.2	88.8	88.4	88.0	87.5	87.1
71	90.9	90.5	90.1	89.7	89.3	88.9	88.5	88.1	87.6	87.2
72	91.0	90.6	90.2	89.8	89.4	89.0	88.5	88.1	87.7	87.3
73	91.1	90.7	90.3	89.8	89.4	89.0	88.6	88.2	87.8	87.4
74	91.1	90.7	90.3	89.9	89.5	89.1	88.7	88.3	87.9	87.5
75	91.2	90.8	90.4	90.0	89.6	89.2	88.8	88.4	88.0	87.6
76	91.3	90.9	90.5	90.1	89.7	89.3	88.9	88.5	88.1	87.7
77	91.3	90.9	90.5	90.2	89.8	89.4	89.0	88.6	88.2	87.8
78	91.4	91.0	90.6	90.2	89.8	89.4	89.1	88.7	88.3	87.9
79	91.5	91.1	90.7	90.3	89.9	89.5	89.1	88.8	88.4	88.0
80	91.5	91.1	90.8	90.4	90.0	89.6	89.2	88.8	88.5	88.1
81	91.6	91.2	90.8	90.4	90.1	89.7	89.3	88.9	88.5	88.2
82	91.7	91.3	90.9	90.5	90.1	89.7	89.4	89.0	88.6	88.2
83	91.7	91.3	91.0	90.6	90.2	89.8	89.4	89.1	88.7	88.3
84	91.8	91.4	91.0	90.6	90.3	89.9	89.5	89.1	88.8	88.4
85	91.8	91.5	91.1	90.7	90.3	90.0	89.6	89.2	88.9	88.5
86	91.9	91.5	91.1	90.8	90.4	90.0	89.7	89.3	88.9	88.6
87	91.9	91.6	91.2	90.8	90.5	90.1	89.7	89.4	89.0	88.6
88	92.0	91.6	91.3	90.9	90.5	90.2	89.8	89.4	89.1	88.7
89	92.1	91.7	91.3	91.0	90.6	90.2	89.9	89.5	89.2	88.8
90	92.1	91.7	91.4	91.0	90.7	90.3	89.9	89.6	89.2	88.9
91	92.2	91.8	91.4	91.1	90.7	90.4	90.0	89.7	89.3	89.0
92	92.2	91.9	91.5	91.1	90.8	90.4	90.1	89.7	89.4	89.0
93	92.3	91.9	91.6	91.2	90.8	90.5	90.1	89.8	89.4	89.1
94	92.3	92.0	91.6	91.3	90.9	90.6	90.2	89.9	89.5	89.2
95	92.4	92.0	91.7	91.3	91.0	90.6	90.3	89.9	89.6	89.2
96	92.4	92.1	91.7	91.4	91.0	90.7	90.3	90.0	89.6	89.3
97	92.5	92.1	91.8	91.4	91.1	90.7	90.4	90.1	89.7	89.4
98	92.5	92.2	91.8	91.5	91.1	90.8	90.5	90.1	89.8	89.4
99	92.6	92.2	91.9	91.5	91.2	90.9	90.5	90.2	89.8	89.5
100	92.6	92.3	91.9	91.6	91.3	90.9	90.6	90.2	89.9	89.6

表 4c（续）

$t-t_w$ / t	3.1	3.2	3.3	3.4	3.5	3.6	3.7	3.8	3.9	4.0
15	70.9	70.0	69.1	68.2	67.3	66.5	65.6	64.7	63.9	63.0
16	71.7	70.8	69.9	69.1	68.2	67.4	66.5	65.7	64.9	64.0
17	72.4	71.6	70.7	69.9	69.1	68.3	67.4	66.6	65.8	65.0
18	73.1	72.3	71.5	70.7	69.9	69.1	68.3	67.5	66.7	65.9
19	73.8	73.0	72.2	71.4	70.6	69.9	69.1	68.3	67.5	66.7
20	74.4	73.7	72.9	72.1	71.3	70.6	69.8	69.1	68.3	67.6
21	75.0	74.3	73.5	72.8	72.0	71.3	70.5	69.8	69.1	68.3
22	75.6	74.9	74.1	73.4	72.7	71.9	71.2	70.5	69.8	69.0
23	76.1	75.4	74.7	74.0	73.3	72.5	71.8	71.1	70.4	69.7
24	76.6	75.9	75.2	74.5	73.8	73.1	72.4	71.7	71.0	70.4
25	77.1	76.4	75.7	75.0	74.4	73.7	73.0	72.3	71.6	71.0
26	77.6	76.9	76.2	75.5	74.9	74.2	73.5	72.9	72.2	71.5
27	78.0	77.3	76.7	76.0	75.4	74.7	74.0	73.4	72.7	72.1
28	78.4	77.8	77.1	76.5	75.8	75.2	74.5	73.9	73.3	72.6
29	78.8	78.2	77.5	76.9	76.2	75.6	75.0	74.4	73.7	73.1
30	79.2	78.5	77.9	77.3	76.7	76.0	75.4	74.8	74.2	73.6
31	79.5	78.9	78.3	77.7	77.1	76.5	75.8	75.2	74.6	74.0
32	79.9	79.3	78.6	78.0	77.4	76.8	76.2	75.7	75.1	74.5
33	80.2	79.6	79.0	78.4	77.8	77.2	76.6	76.0	75.5	74.9
34	80.5	79.9	79.3	78.7	78.2	77.6	77.0	76.4	75.8	75.3
35	80.8	80.2	79.6	79.1	78.5	77.9	77.3	76.8	76.2	75.7
36	81.1	80.5	79.9	79.4	78.8	78.2	77.7	77.1	76.6	76.0
37	81.3	80.8	80.2	79.7	79.1	78.6	78.0	77.5	76.9	76.4
38	81.6	81.1	80.5	79.9	79.4	78.9	78.3	77.8	77.2	76.7
39	81.9	81.3	80.8	80.2	79.7	79.1	78.6	78.1	77.5	77.0
40	82.1	81.6	81.0	80.5	80.0	79.4	78.9	78.4	77.8	77.3
41	82.3	81.8	81.3	80.7	80.2	79.7	79.2	78.6	78.1	77.6
42	82.6	82.0	81.5	81.0	80.5	79.9	79.4	78.9	78.4	77.9
43	82.8	82.3	81.7	81.2	80.7	80.2	79.7	79.2	78.7	78.2
44	83.0	82.5	82.0	81.4	80.9	80.4	79.9	79.4	78.9	78.4
45	83.2	82.7	82.2	81.7	81.2	80.7	80.2	79.7	79.2	78.7
46	83.4	82.9	82.4	81.9	81.4	80.9	80.4	79.9	79.4	78.9
47	83.6	83.1	82.6	82.1	81.6	81.1	80.6	80.1	79.6	79.2
48	83.8	83.3	82.8	82.3	81.8	81.3	80.8	80.3	79.9	79.4
49	83.9	83.4	83.0	82.5	82.0	81.5	81.0	80.6	80.1	79.6
50	84.1	83.6	83.1	82.7	82.2	81.7	81.2	80.8	80.3	79.8
51	84.3	83.8	83.3	82.8	82.4	81.9	81.4	81.0	80.5	80.0
52	84.4	84.0	83.5	83.0	82.6	82.1	81.6	81.2	80.7	80.2
53	84.6	84.1	83.7	83.2	82.7	82.3	81.8	81.4	80.9	80.4
54	84.7	84.3	83.8	83.4	82.9	82.4	82.0	81.5	81.1	80.6
55	84.9	84.4	84.0	83.5	83.1	82.6	82.2	81.7	81.3	80.8
56	85.0	84.6	84.1	83.7	83.2	82.8	82.3	81.9	81.4	81.0
57	85.2	84.7	84.3	83.8	83.4	82.9	82.5	82.1	81.6	81.2

表 4c（续）

$t-t_w$ / t	3.1	3.2	3.3	3.4	3.5	3.6	3.7	3.8	3.9	4.0
58	85.3	84.9	84.4	84.0	83.5	83.1	82.7	82.2	81.8	81.4
59	85.4	85.0	84.6	84.1	83.7	83.3	82.8	82.4	82.0	81.5
60	85.6	85.1	84.7	84.3	83.8	83.4	83.0	82.5	82.1	81.7
61	85.7	85.3	84.8	84.4	84.0	83.5	83.1	82.7	82.3	81.9
62	85.8	85.4	85.0	84.5	84.1	83.7	83.3	82.8	82.4	82.0
63	85.9	85.5	85.1	84.7	84.3	83.8	83.4	83.0	82.6	82.2
64	86.1	85.6	85.2	84.8	84.4	84.0	83.6	83.1	82.7	82.3
65	86.2	85.8	85.3	84.9	84.5	84.1	83.7	83.3	82.9	82.5
66	86.3	85.9	85.5	85.1	84.6	84.2	83.8	83.4	83.0	82.6
67	86.4	86.0	85.6	85.2	84.8	84.4	84.0	83.6	83.1	82.7
68	86.5	86.1	85.7	85.3	84.9	84.5	84.1	83.7	83.3	82.9
69	86.6	86.2	85.8	85.4	85.0	84.6	84.2	83.8	83.4	83.0
70	86.7	86.3	85.9	85.5	85.1	84.7	84.3	83.9	83.5	83.2
71	86.8	86.4	86.0	85.6	85.2	84.9	84.5	84.1	83.7	83.3
72	86.9	86.5	86.1	85.8	85.4	85.0	84.6	84.2	83.8	83.4
73	87.0	86.6	86.3	85.9	85.5	85.1	84.7	84.3	83.9	83.5
74	87.1	86.8	86.4	86.0	85.6	85.2	84.8	84.4	84.0	83.7
75	87.2	86.8	86.5	86.1	85.7	85.3	84.9	84.5	84.2	83.8
76	87.3	86.9	86.6	86.2	85.8	85.4	85.0	84.7	84.3	83.9
77	87.4	87.0	86.7	86.3	85.9	85.5	85.1	84.8	84.4	84.0
78	87.5	87.1	86.8	86.4	86.0	85.6	85.3	84.9	84.5	84.1
79	87.6	87.2	86.9	86.5	86.1	85.7	85.4	85.0	84.6	84.2
80	87.7	87.3	86.9	86.6	86.2	85.8	85.5	85.1	84.7	84.4
81	87.8	87.4	87.0	86.7	86.3	85.9	85.6	85.2	84.8	84.5
82	87.9	87.5	87.1	86.8	86.4	86.0	85.7	85.3	84.9	84.6
83	88.0	87.6	87.2	86.9	86.5	86.1	85.8	85.4	85.0	84.7
84	88.0	87.7	87.3	87.0	86.6	86.2	85.9	85.5	85.2	84.8
85	88.1	87.8	87.4	87.0	86.7	86.3	86.0	85.6	85.3	84.9
86	88.2	87.8	87.5	87.1	86.8	86.4	86.1	85.7	85.4	85.0
87	88.3	87.9	87.6	87.2	86.9	86.5	86.2	85.8	85.5	85.1
88	88.4	88.0	87.7	87.3	87.0	86.6	86.2	85.9	85.5	85.2
89	88.4	88.1	87.7	87.4	87.0	86.7	86.3	86.0	85.6	85.3
90	88.5	88.2	87.8	87.5	87.1	86.8	86.4	86.1	85.7	85.4
91	88.6	88.3	87.9	87.6	87.2	86.9	86.5	86.2	85.8	85.5
92	88.7	88.3	88.0	87.6	87.3	87.0	86.6	86.3	85.9	85.6
93	88.8	88.4	88.1	87.7	87.4	87.0	86.7	86.4	86.0	85.7
94	88.8	88.5	88.1	87.8	87.5	87.1	86.8	86.4	86.1	85.8
95	88.9	88.6	88.2	87.9	87.5	87.2	86.9	86.5	86.2	85.9
96	89.0	88.6	88.3	88.0	87.6	87.3	87.0	86.6	86.3	86.0
97	89.0	88.7	88.4	88.0	87.7	87.4	87.0	86.7	86.4	86.0
98	89.1	88.8	88.4	88.1	87.8	87.4	87.1	86.8	86.5	86.1
99	89.2	88.8	88.5	88.2	87.9	87.5	87.2	86.9	86.5	86.2
100	89.2	88.9	88.6	88.3	87.9	87.6	87.3	87.0	86.6	86.3

表 4c（续）

$t-t_w$ / t	4.1	4.2	4.3	4.4	4.5	4.6	4.7	4.8	4.9	5.0
15	62.1	61.3	60.4	59.6	58.7	57.9	57.0	56.2	55.4	54.5
16	63.2	62.3	61.5	60.7	59.9	59.0	58.2	57.4	56.6	55.8
17	64.2	63.4	62.6	61.8	61.0	60.2	59.4	58.6	57.8	57.0
18	65.1	64.3	63.5	62.7	62.0	61.2	60.4	59.6	58.9	58.1
19	66.0	65.2	64.4	63.7	62.9	62.2	61.4	60.7	59.9	59.2
20	66.8	66.1	65.3	64.6	63.8	63.1	62.4	61.6	60.9	60.2
21	67.6	66.9	66.1	65.4	64.7	64.0	63.2	62.5	61.8	61.1
22	68.3	67.6	66.9	66.2	65.5	64.8	64.1	63.4	62.7	62.0
23	69.0	68.3	67.6	66.9	66.2	65.6	64.9	64.2	63.5	62.8
24	69.7	69.0	68.3	67.6	67.0	66.3	65.6	65.0	64.3	63.6
25	70.3	69.6	69.0	68.3	67.6	67.0	66.3	65.7	65.0	64.4
26	70.9	70.2	69.6	68.9	68.3	67.7	67.0	66.4	65.7	65.1
27	71.5	70.8	70.2	69.5	68.9	68.3	67.7	67.0	66.4	65.8
28	72.0	71.4	70.7	70.1	69.5	68.9	68.3	67.6	67.0	66.4
29	72.5	71.9	71.3	70.7	70.0	69.4	68.8	68.2	67.6	67.0
30	73.0	72.4	71.8	71.2	70.6	70.0	69.4	68.8	68.2	67.6
31	73.4	72.8	72.3	71.7	71.1	70.5	69.9	69.3	68.8	68.2
32	73.9	73.3	72.7	72.1	71.6	71.0	70.4	69.8	69.3	68.7
33	74.3	73.7	73.2	72.6	72.0	71.5	70.9	70.3	69.8	69.2
34	74.7	74.1	73.6	73.0	72.5	71.9	71.3	70.8	70.2	69.7
35	75.1	74.5	74.0	73.4	72.9	72.3	71.8	71.2	70.7	70.2
36	75.5	74.9	74.4	73.8	73.3	72.7	72.2	71.7	71.1	70.6
37	75.8	75.3	74.7	74.2	73.7	73.1	72.6	72.1	71.5	71.0
38	76.2	75.6	75.1	74.6	74.0	73.5	73.0	72.5	71.9	71.4
39	76.5	75.9	75.4	74.9	74.4	73.9	73.3	72.8	72.3	71.8
40	76.8	76.3	75.8	75.2	74.7	74.2	73.7	73.2	72.7	72.2
41	77.1	76.6	76.1	75.6	75.1	74.5	74.0	73.5	73.0	72.5
42	77.4	76.9	76.4	75.9	75.4	74.9	74.4	73.9	73.4	72.9
43	77.7	77.2	76.7	76.2	75.7	75.2	74.7	74.2	73.7	73.2
44	77.9	77.4	76.9	76.5	76.0	75.5	75.0	74.5	74.0	73.5
45	78.2	77.7	77.2	76.7	76.2	75.8	75.3	74.8	74.3	73.9
46	78.4	78.0	77.5	77.0	76.5	76.0	75.6	75.1	74.6	74.2
47	78.7	78.2	77.7	77.3	76.8	76.3	75.8	75.4	74.9	74.4
48	78.9	78.4	78.0	77.5	77.0	76.6	76.1	75.6	75.2	74.7
49	79.1	78.7	78.2	77.7	77.3	76.8	76.4	75.9	75.5	75.0
50	79.4	78.9	78.4	78.0	77.5	77.1	76.6	76.2	75.7	75.3
51	79.6	79.1	78.7	78.2	77.8	77.3	76.9	76.4	76.0	75.5
52	79.8	79.3	78.9	78.4	78.0	77.5	77.1	76.7	76.2	75.8
53	80.0	79.5	79.1	78.7	78.2	77.8	77.3	76.9	76.4	76.0
54	80.2	79.7	79.3	78.9	78.4	78.0	77.5	77.1	76.7	76.2
55	80.4	79.9	79.5	79.1	78.6	78.2	77.8	77.3	76.9	76.5
56	80.6	80.1	79.7	79.3	78.8	78.4	78.0	77.5	77.1	76.7
57	80.7	80.3	79.9	79.5	79.0	78.6	78.2	77.8	77.3	76.9

表 4c（续）

t \ $t-t_w$	4.1	4.2	4.3	4.4	4.5	4.6	4.7	4.8	4.9	5.0
58	80.9	80.5	80.1	79.6	79.2	78.8	78.4	78.0	77.5	77.1
59	81.1	80.7	80.2	79.8	79.4	79.0	78.6	78.2	77.7	77.3
60	81.3	80.8	80.4	80.0	79.6	79.2	78.8	78.3	77.9	77.5
61	81.4	81.0	80.6	80.2	79.8	79.4	78.9	78.5	78.1	77.7
62	81.6	81.2	80.8	80.4	79.9	79.5	79.1	78.7	78.3	77.9
63	81.7	81.3	80.9	80.5	80.1	79.7	79.3	78.9	78.5	78.1
64	81.9	81.5	81.1	80.7	80.3	79.9	79.5	79.1	78.7	78.3
65	82.1	81.6	81.2	80.8	80.4	80.0	79.6	79.2	78.9	78.5
66	82.2	81.8	81.4	81.0	80.6	80.2	79.8	79.4	79.0	78.6
67	82.3	81.9	81.5	81.2	80.8	80.4	80.0	79.6	79.2	78.8
68	82.5	82.1	81.7	81.3	80.9	80.5	80.1	79.7	79.4	79.0
69	82.6	82.2	81.8	81.5	81.1	80.7	80.3	79.9	79.5	79.1
70	82.8	82.4	82.0	81.6	81.2	80.8	80.4	80.1	79.7	79.3
71	82.9	82.5	82.1	81.7	81.4	81.0	80.6	80.2	79.8	79.5
72	83.0	82.6	82.3	81.9	81.5	81.1	80.7	80.4	80.0	79.6
73	83.2	82.8	82.4	82.0	81.6	81.3	80.9	80.5	80.1	79.8
74	83.3	82.9	82.5	82.1	81.8	81.4	81.0	80.7	80.3	79.9
75	83.4	83.0	82.7	82.3	81.9	81.5	81.2	80.8	80.4	80.1
76	83.5	83.2	82.8	82.4	82.0	81.7	81.3	80.9	80.6	80.2
77	83.6	83.3	82.9	82.5	82.2	81.8	81.4	81.1	80.7	80.4
78	83.8	83.4	83.0	82.7	82.3	81.9	81.6	81.2	80.9	80.5
79	83.9	83.5	83.2	82.8	82.4	82.1	81.7	81.3	81.0	80.6
80	84.0	83.6	83.3	82.9	82.6	82.2	81.8	81.5	81.1	80.8
81	84.1	83.7	83.4	83.0	82.7	82.3	82.0	81.6	81.3	80.9
82	84.2	83.9	83.5	83.1	82.8	82.4	82.1	81.7	81.4	81.0
83	84.3	84.0	83.6	83.3	82.9	82.6	82.2	81.9	81.5	81.2
84	84.4	84.1	83.7	83.4	83.0	82.7	82.3	82.0	81.6	81.3
85	84.5	84.2	83.8	83.5	83.1	82.8	82.5	82.1	81.8	81.4
86	84.7	84.3	84.0	83.6	83.3	82.9	82.6	82.2	81.9	81.5
87	84.8	84.4	84.1	83.7	83.4	83.0	82.7	82.3	82.0	81.7
88	84.9	84.5	84.2	83.8	83.5	83.1	82.8	82.5	82.1	81.8
89	85.0	84.6	84.3	83.9	83.6	83.3	82.9	82.6	82.2	81.9
90	85.1	84.7	84.4	84.0	83.7	83.4	83.0	82.7	82.4	82.0
91	85.2	84.8	84.5	84.1	83.8	83.5	83.1	82.8	82.5	82.1
92	85.3	84.9	84.6	84.2	83.9	83.6	83.2	82.9	82.6	82.3
93	85.3	85.0	84.7	84.3	84.0	83.7	83.4	83.0	82.7	82.4
94	85.4	85.1	84.8	84.4	84.1	83.8	83.5	83.1	82.8	82.5
95	85.5	85.2	84.9	84.5	84.2	83.9	83.6	83.2	82.9	82.6
96	85.6	85.3	85.0	84.6	84.3	84.0	83.7	83.3	83.0	82.7
97	85.7	85.4	85.1	84.7	84.4	84.1	83.8	83.5	83.1	82.8
98	85.8	85.5	85.2	84.8	84.5	84.2	83.9	83.6	83.2	82.9
99	85.9	85.6	85.3	84.9	84.6	84.3	84.0	83.7	83.3	83.0
100	86.0	85.7	85.3	85.0	84.7	84.4	84.1	83.8	83.4	83.1

表 4c（续）

t－tw / t	5.2	5.4	5.6	5.8	6.0	6.2	6.4	6.6	6.8	7.0
15	52.9	51.2	49.6	48.0	46.3	44.7	43.1	41.6	40.0	38.4
16	54.2	52.6	51.0	49.4	47.9	46.3	44.8	43.2	41.7	40.2
17	55.4	53.9	52.3	50.8	49.3	47.8	46.3	44.8	43.3	41.8
18	56.6	55.1	53.6	52.1	50.6	49.1	47.7	46.2	44.8	43.4
19	57.7	56.2	54.8	53.3	51.9	50.4	49.0	47.6	46.2	44.8
20	58.7	57.3	55.9	54.5	53.1	51.7	50.3	48.9	47.5	46.2
21	59.7	58.3	56.9	55.5	54.2	52.8	51.5	50.1	48.8	47.5
22	60.6	59.3	57.9	56.6	55.2	53.9	52.6	51.3	50.0	48.7
23	61.5	60.2	58.8	57.5	56.2	54.9	53.6	52.4	51.1	49.9
24	62.3	61.0	59.7	58.4	57.2	55.9	54.6	53.4	52.2	50.9
25	63.1	61.8	60.6	59.3	58.1	56.8	55.6	54.4	53.2	52.0
26	63.8	62.6	61.4	60.1	58.9	57.7	56.5	55.3	54.1	52.9
27	64.5	63.3	62.1	60.9	59.7	58.5	57.3	56.2	55.0	53.9
28	65.2	64.0	62.8	61.6	60.5	59.3	58.2	57.0	55.9	54.7
29	65.9	64.7	63.5	62.3	61.2	60.1	58.9	57.8	56.7	55.6
30	66.5	65.3	64.1	63.0	61.9	60.8	59.6	58.5	57.4	56.4
31	67.0	65.9	64.8	63.6	62.5	61.4	60.3	59.3	58.2	57.1
32	67.6	66.5	65.4	64.3	63.2	62.1	61.0	59.9	58.9	57.8
33	68.1	67.0	65.9	64.8	63.8	62.7	61.6	60.6	59.5	58.5
34	68.6	67.5	66.4	65.4	64.3	63.3	62.2	61.2	60.2	59.2
35	69.1	68.0	67.0	65.9	64.9	63.8	62.8	61.8	60.8	59.8
36	69.5	68.5	67.4	66.4	65.4	64.4	63.4	62.4	61.4	60.4
37	70.0	68.9	67.9	66.9	65.9	64.9	63.9	62.9	61.9	61.0
38	70.4	69.4	68.4	67.4	66.4	65.4	64.4	63.4	62.5	61.5
39	70.8	69.8	68.8	67.8	66.8	65.8	64.9	63.9	63.0	62.0
40	71.2	70.2	69.2	68.2	67.3	66.3	65.3	64.4	63.5	62.5
41	71.6	70.6	69.6	68.6	67.7	66.7	65.8	64.9	63.9	63.0
42	71.9	70.9	70.0	69.0	68.1	67.2	66.2	65.3	64.4	63.5
43	72.3	71.3	70.4	69.4	68.5	67.6	66.6	65.7	64.8	63.9
44	72.6	71.7	70.7	69.8	68.9	67.9	67.0	66.1	65.2	64.4
45	72.9	72.0	71.1	70.1	69.2	68.3	67.4	66.5	65.7	64.8
46	73.2	72.3	71.4	70.5	69.6	68.7	67.8	66.9	66.0	65.2
47	73.5	72.6	71.7	70.8	69.9	69.0	68.2	67.3	66.4	65.6
48	73.8	72.9	72.0	71.1	70.2	69.4	68.5	67.6	66.8	65.9
49	74.1	73.2	72.3	71.4	70.6	69.7	68.8	68.0	67.1	66.3
50	74.4	73.5	72.6	71.7	70.9	70.0	69.2	68.3	67.5	66.7
51	74.6	73.8	72.9	72.0	71.2	70.3	69.5	68.6	67.8	67.0
52	74.9	74.0	73.2	72.3	71.5	70.6	69.8	69.0	68.1	67.3
53	75.1	74.3	73.4	72.6	71.7	70.9	70.1	69.3	68.5	67.6
54	75.4	74.5	73.7	72.9	72.0	71.2	70.4	69.6	68.8	68.0
55	75.6	74.8	73.9	73.1	72.3	71.5	70.7	69.9	69.1	68.3
56	75.9	75.0	74.2	73.4	72.5	71.7	70.9	70.1	69.3	68.6
57	76.1	75.2	74.4	73.6	72.8	72.0	71.2	70.4	69.6	68.8

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表 4c（续）

t＼$t-t_w$	5.2	5.4	5.6	5.8	6.0	6.2	6.4	6.6	6.8	7.0
58	76.3	75.5	74.7	73.8	73.0	72.2	71.5	70.7	69.9	69.1
59	76.5	75.7	74.9	74.1	73.3	72.5	71.7	70.9	70.2	69.4
60	76.7	75.9	75.1	74.3	73.5	72.7	72.0	71.2	70.4	69.7
61	76.9	76.1	75.3	74.5	73.7	73.0	72.2	71.4	70.7	69.9
62	77.1	76.3	75.5	74.7	74.0	73.2	72.4	71.7	70.9	70.2
63	77.3	76.5	75.7	75.0	74.2	73.4	72.7	71.9	71.2	70.4
64	77.5	76.7	75.9	75.2	74.4	73.6	72.9	72.1	71.4	70.7
65	77.7	76.9	76.1	75.4	74.6	73.9	73.1	72.4	71.6	70.9
66	77.9	77.1	76.3	75.6	74.8	74.1	73.3	72.6	71.9	71.1
67	78.0	77.3	76.5	75.8	75.0	74.3	73.5	72.8	72.1	71.4
68	78.2	77.5	76.7	76.0	75.2	74.5	73.7	73.0	72.3	71.6
69	78.4	77.6	76.9	76.1	75.4	74.7	73.9	73.2	72.5	71.8
70	78.5	77.8	77.1	76.3	75.6	74.9	74.1	73.4	72.7	72.0
71	78.7	78.0	77.2	76.5	75.8	75.1	74.3	73.6	72.9	72.2
72	78.9	78.1	77.4	76.7	76.0	75.2	74.5	73.8	73.1	72.4
73	79.0	78.3	77.6	76.9	76.1	75.4	74.7	74.0	73.3	72.6
74	79.2	78.5	77.7	77.0	76.3	75.6	74.9	74.2	73.5	72.8
75	79.3	78.6	77.9	77.2	76.5	75.8	75.1	74.4	73.7	73.0
76	79.5	78.8	78.1	77.4	76.6	76.0	75.3	74.6	73.9	73.2
77	79.6	78.9	78.2	77.5	76.8	76.1	75.4	74.7	74.1	73.4
78	79.8	79.1	78.4	77.7	77.0	76.3	75.6	74.9	74.3	73.6
79	79.9	79.2	78.5	77.8	77.1	76.5	75.8	75.1	74.4	73.8
80	80.1	79.4	78.7	78.0	77.3	76.6	75.9	75.3	74.6	73.9
81	80.2	79.5	78.8	78.1	77.5	76.8	76.1	75.4	74.8	74.1
82	80.3	79.7	79.0	78.3	77.6	76.9	76.3	75.6	74.9	74.3
83	80.5	79.8	79.1	78.4	77.8	77.1	76.4	75.8	75.1	74.5
84	80.6	79.9	79.2	78.6	77.9	77.2	76.6	75.9	75.3	74.6
85	80.7	80.1	79.4	78.7	78.1	77.4	76.7	76.1	75.4	74.8
86	80.9	80.2	79.5	78.9	78.2	77.5	76.9	76.2	75.6	75.0
87	81.0	80.3	79.7	79.0	78.3	77.7	77.0	76.4	75.8	75.1
88	81.1	80.5	79.8	79.1	78.5	77.8	77.2	76.6	75.9	75.3
89	81.2	80.6	79.9	79.3	78.6	78.0	77.3	76.7	76.1	75.4
90	81.4	80.7	80.1	79.4	78.8	78.1	77.5	76.9	76.2	75.6
91	81.5	80.8	80.2	79.5	78.9	78.3	77.6	77.0	76.4	75.8
92	81.6	81.0	80.3	79.7	79.0	78.4	77.8	77.1	76.5	75.9
93	81.7	81.1	80.4	79.8	79.2	78.5	77.9	77.3	76.7	76.1
94	81.8	81.2	80.6	79.9	79.3	78.7	78.0	77.4	76.8	76.2
95	82.0	81.3	80.7	80.0	79.4	78.8	78.2	77.6	77.0	76.3
96	82.1	81.4	80.8	80.2	79.5	78.9	78.3	77.7	77.1	76.5
97	82.2	81.5	80.9	80.3	79.7	79.1	78.4	77.8	77.2	76.6
98	82.3	81.7	81.0	80.4	79.8	79.2	78.6	78.0	77.4	76.8
99	82.4	81.8	81.2	80.5	79.9	79.3	78.7	78.1	77.5	76.9
100	82.5	81.9	81.3	80.7	80.0	79.4	78.8	78.2	77.6	77.1

表 4c（续）

t⌐-t_w / t	7.2	7.4	7.6	7.8	8.0	8.2	8.4	8.6	8.8	9.0
15	36.9	35.3	33.8	32.3	30.8	29.3	27.8	26.3	24.8	23.4
16	38.7	37.2	35.7	34.2	32.8	31.3	29.9	28.4	27.0	25.6
17	40.4	38.9	37.5	36.1	34.6	33.2	31.8	30.4	29.0	27.7
18	42.0	40.5	39.1	37.8	36.4	35.0	33.6	32.3	31.0	29.6
19	43.4	42.1	40.7	39.4	38.0	36.7	35.4	34.1	32.8	31.5
20	44.9	43.5	42.2	40.9	39.6	38.3	37.0	35.7	34.4	33.2
21	46.2	44.9	43.6	42.3	41.0	39.8	38.5	37.3	36.0	34.8
22	47.4	46.2	44.9	43.7	42.4	41.2	40.0	38.7	37.5	36.3
23	48.6	47.4	46.1	44.9	43.7	42.5	41.3	40.1	39.0	37.8
24	49.7	48.5	47.3	46.1	44.9	43.8	42.6	41.4	40.3	39.2
25	50.8	49.6	48.4	47.3	46.1	45.0	43.8	42.7	41.6	40.4
26	51.8	50.6	49.5	48.3	47.2	46.1	45.0	43.9	42.8	41.7
27	52.7	51.6	50.5	49.3	48.2	47.1	46.0	45.0	43.9	42.8
28	53.6	52.5	51.4	50.3	49.2	48.1	47.1	46.0	45.0	43.9
29	54.5	53.4	52.3	51.2	50.2	49.1	48.1	47.0	46.0	45.0
30	55.3	54.2	53.2	52.1	51.1	50.0	49.0	48.0	47.0	46.0
31	56.1	55.0	54.0	52.9	51.9	50.9	49.9	48.9	47.9	46.9
32	56.8	55.8	54.7	53.7	52.7	51.7	50.7	49.7	48.8	47.8
33	57.5	56.5	55.5	54.5	53.5	52.5	51.5	50.6	49.6	48.6
34	58.2	57.2	56.2	55.2	54.2	53.2	52.3	51.3	50.4	49.5
35	58.8	57.8	56.8	55.9	54.9	54.0	53.0	52.1	51.1	50.2
36	59.4	58.4	57.5	56.5	55.6	54.6	53.7	52.8	51.9	51.0
37	60.0	59.0	58.1	57.2	56.2	55.3	54.4	53.5	52.6	51.7
38	60.6	59.6	58.7	57.8	56.8	55.9	55.0	54.1	53.2	52.4
39	61.1	60.2	59.2	58.3	57.4	56.5	55.6	54.8	53.9	53.0
40	61.6	60.7	59.8	58.9	58.0	57.1	56.2	55.4	54.5	53.6
41	62.1	61.2	60.3	59.4	58.5	57.7	56.8	55.9	55.1	54.2
42	62.6	61.7	60.8	59.9	59.1	58.2	57.3	56.5	55.6	54.8
43	63.0	62.2	61.3	60.4	59.6	58.7	57.9	57.0	56.2	55.4
44	63.5	62.6	61.7	60.9	60.0	59.2	58.4	57.5	56.7	55.9
45	63.9	63.0	62.2	61.3	60.5	59.7	58.8	58.0	57.2	56.4
46	64.3	63.5	62.6	61.8	61.0	60.1	59.3	58.5	57.7	56.9
47	64.7	63.9	63.0	62.2	61.4	60.6	59.8	59.0	58.2	57.4
48	65.1	64.3	63.4	62.6	61.8	61.0	60.2	59.4	58.6	57.8
49	65.5	64.6	63.8	63.0	62.2	61.4	60.6	59.8	59.0	58.3
50	65.8	65.0	64.2	63.4	62.6	61.8	61.0	60.2	59.5	58.7
51	66.2	65.4	64.6	63.8	63.0	62.2	61.4	60.6	59.9	59.1
52	66.5	65.7	64.9	64.1	63.3	62.6	61.8	61.0	60.3	59.5
53	66.8	66.1	65.3	64.5	63.7	62.9	62.2	61.4	60.7	59.9
54	67.2	66.4	65.6	64.8	64.1	63.3	62.5	61.8	61.0	60.3
55	67.5	66.7	65.9	65.2	64.4	63.6	62.9	62.1	61.4	60.7
56	67.8	67.0	66.2	65.5	64.7	64.0	63.2	62.5	61.8	61.0
57	68.1	67.3	66.5	65.8	65.0	64.3	63.6	62.8	62.1	61.4

表 4c（续）

$t - t_w$ / t	7.2	7.4	7.6	7.8	8.0	8.2	8.4	8.6	8.8	9.0
58	68.4	67.6	66.8	66.1	65.3	64.6	63.9	63.2	62.4	61.7
59	68.6	67.9	67.1	66.4	65.7	64.9	64.2	63.5	62.8	62.1
60	68.9	68.2	67.4	66.7	65.9	65.2	64.5	63.8	63.1	62.4
61	69.2	68.4	67.7	67.0	66.2	65.5	64.8	64.1	63.4	62.7
62	69.4	68.7	68.0	67.2	66.5	65.8	65.1	64.4	63.7	63.0
63	69.7	69.0	68.2	67.5	66.8	66.1	65.4	64.7	64.0	63.3
64	69.9	69.2	68.5	67.8	67.1	66.4	65.7	65.0	64.3	63.6
65	70.2	69.5	68.7	68.0	67.3	66.6	65.9	65.2	64.6	63.9
66	70.4	69.7	69.0	68.3	67.6	66.9	66.2	65.5	64.8	64.2
67	70.6	69.9	69.2	68.5	67.8	67.1	66.5	65.8	65.1	64.4
68	70.9	70.2	69.5	68.8	68.1	67.4	66.7	66.0	65.4	64.7
69	71.1	70.4	69.7	69.0	68.3	67.6	67.0	66.3	65.6	65.0
70	71.3	70.6	69.9	69.2	68.6	67.9	67.2	66.5	65.9	65.2
71	71.5	70.8	70.1	69.5	68.8	68.1	67.4	66.8	66.1	65.5
72	71.7	71.0	70.4	69.7	69.0	68.3	67.7	67.0	66.4	65.7
73	71.9	71.3	70.6	69.9	69.2	68.6	67.9	67.3	66.6	66.0
74	72.1	71.5	70.8	70.1	69.5	68.8	68.1	67.5	66.9	66.2
75	72.3	71.7	71.0	70.3	69.7	69.0	68.4	67.7	67.1	66.4
76	72.5	71.9	71.2	70.5	69.9	69.2	68.6	67.9	67.3	66.7
77	72.7	72.1	71.4	70.7	70.1	69.4	68.8	68.2	67.5	66.9
78	72.9	72.3	71.6	70.9	70.3	69.7	69.0	68.4	67.8	67.1
79	73.1	72.4	71.8	71.1	70.5	69.9	69.2	68.6	68.0	67.4
80	73.3	72.6	72.0	71.3	70.7	70.1	69.4	68.8	68.2	67.6
81	73.5	72.8	72.2	71.5	70.9	70.3	69.6	69.0	68.4	67.8
82	73.6	73.0	72.4	71.7	71.1	70.5	69.8	69.2	68.6	68.0
83	73.8	73.2	72.5	71.9	71.3	70.7	70.0	69.4	68.8	68.2
84	74.0	73.4	72.7	72.1	71.5	70.8	70.2	69.6	69.0	68.4
85	74.2	73.5	72.9	72.3	71.7	71.0	70.4	69.8	69.2	68.6
86	74.3	73.7	73.1	72.5	71.8	71.2	70.6	70.0	69.4	68.8
87	74.5	73.9	73.2	72.6	72.0	71.4	70.8	70.2	69.6	69.0
88	74.7	74.0	73.4	72.8	72.2	71.6	71.0	70.4	69.8	69.2
89	74.8	74.2	73.6	73.0	72.4	71.8	71.2	70.6	70.0	69.4
90	75.0	74.4	73.8	73.1	72.5	71.9	71.3	70.7	70.2	69.6
91	75.1	74.5	73.9	73.3	72.7	72.1	71.5	70.9	70.3	69.8
92	75.3	74.7	74.1	73.5	72.9	72.3	71.7	71.1	70.5	69.9
93	75.4	74.8	74.2	73.6	73.0	72.5	71.9	71.3	70.7	70.1
94	75.6	75.0	74.4	73.8	73.2	72.6	72.0	71.5	70.9	70.3
95	75.7	75.1	74.5	74.0	73.4	72.8	72.2	71.6	71.1	70.5
96	75.9	75.3	74.7	74.1	73.5	72.9	72.4	71.8	71.2	70.7
97	76.0	75.4	74.9	74.3	73.7	73.1	72.5	72.0	71.4	70.8
98	76.2	75.6	75.0	74.4	73.8	73.3	72.7	72.1	71.6	71.0
99	76.3	75.7	75.2	74.6	74.0	73.4	72.9	72.3	71.7	71.2
100	76.5	75.9	75.3	74.7	74.2	73.6	73.0	72.5	71.9	71.3

表 4c（续）

$t-t_w$ t	9.2	9.4	9.6	9.8	10.0	10.2	10.4	10.6	10.8	11.0
15	21.9	20.5	19.0	17.6	16.2	14.8	13.4	12.0	10.6	9.2
16	24.2	22.8	21.4	20.0·	18.6	17.3	15.9	14.6	13.2	11.9
17	26.3	24.9	23.6	22.3	20.9	19.6	18.3	17.0	15.7	14.4
18	28.3	27.0	25.7	24.4	23.1	21.8	20.5	19.3	18.0	16.8
19	30.2	28.9	27.6	26.4	25.1	23.9	22.6	21.4	20.2	19.0
20	31.9	30.7	29.5	28.2	27.0	25.8	24.6	23.4	22.2	21.0
21	33.6	32.4	31.2	30.0	28.8	27.6	26.5	25.3	24.1	23.0
22	35.2	34.0	32.8	31.6	30.5	29.3	28.2	27.1	26.0	24.8
23	36.6	35.5	34.3	33.2	32.1	31.0	29.9	28.8	27.7	26.6
24	38.0	36.9	35.8	34.7	33.6	32.5	31.4	30.3	29.3	28.2
25	39.3	38.2	37.2	36.1	35.0	33.9	32.9	31.8	30.8	29.7
26	40.6	39.5	38.4	37.4	36.3	35.3	34.3	33.2	32.2	31.2
27	41.8	40.7	39.7	38.6	37.6	36.6	35.6	34.6	33.6	32.6
28	42.9	41.9	40.8	39.8	38.8	37.8	36.8	35.8	34.9	33.9
29	43.9	42.9	41.9	40.9	40.0	39.0	38.0	37.0	36.1	35.1
30	45.0	44.0	43.0	42.0	41.0	40.1	39.1	38.2	37.2	36.3
31	45.9	44.9	44.0	43.0	42.1	41.1	40.2	39.3	38.3	37.4
32	46.8	45.9	44.9	44.0	43.1	42.1	41.2	40.3	39.4	38.5
33	47.7	46.8	45.8	44.9	44.0	43.1	42.2	41.3	40.4	39.5
34	48.5	47.6	46.7	45.8	44.9	44.0	43.1	42.2	41.3	40.5
35	49.3	48.4	47.5	46.6	45.7	44.8	44.0	43.1	42.2	41.4
36	50.1	49.2	48.3	47.4	46.5	45.7	44.8	44.0	43.1	42.3
37	50.8	49.9	49.0	48.2	47.3	46.5	45.6	44.8	43.9	43.1
38	51.5	50.6	49.7	48.9	48.0	47.2	46.4	45.5	44.7	43.9
39	52.1	51.3	50.4	49.6	48.8	47.9	47.1	46.3	45.5	44.7
40	52.8	51.9	51.1	50.3	49.4	48.6	47.8	47.0	46.2	45.4
41	53.4	52.5	51.7	50.9	50.1	49.3	48.5	47.7	46.9	46.1
42	54.0	53.1	52.3	51.5	50.7	49.9	49.1	48.3	47.6	46.8
43	54.5	53.7	52.9	52.1	51.3	50.5	49.7	49.0	48.2	47.4
44	55.1	54.3	53.5	52.7	51.9	51.1	50.3	49.6	48.8	48.1
45	55.6	54.8	54.0	53.2	52.5	51.7	50.9	50.2	49.4	48.7
46	56.1	55.3	54.5	53.8	53.0	52.2	51.5	50.7	50.0	49.2
47	56.6	55.8	55.0	54.3	53.5	52.8	52.0	51.3	50.5	49.8
48	57.1	56.3	55.5	54.8	54.0	53.3	52.5	51.8	51.1	50.3
49	57.5	56.7	56.0	55.2	54.5	53.8	53.0	52.3	51.6	50.9
50	57.9	57.2	56.4	55.7	55.0	54.2	53.5	52.8	52.1	51.4
51	58.4	57.6	56.9	56.1	55.4	54.7	54.0	53.3	52.6	51.8
52	58.8	58.0	57.3	56.6	55.9	55.1	54.4	53.7	53.0	52.3
53	59.2	58.4	57.7	57.0	56.3	55.6	54.9	54.2	53.5	52.8
54	59.6	58.8	58.1	57.4	56.7	56.0	55.3	54.6	53.9	53.2
55	59.9	59.2	58.5	57.8	57.1	56.4	55.7	55.0	54.3	53.7
56	60.3	59.6	58.9	58.2	57.5	56.8	56.1	55.4	54.7	54.1
57	60.7	60.0	59.3	58.6	57.9	57.2	56.5	55.8	55.1	54.5

表 4c（续）

$t-t_w$ / t	9.2	9.4	9.6	9.8	10.0	10.2	10.4	10.6	10.8	11.0
58	61.0	60.3	59.6	58.9	58.2	57.5	56.9	56.2	55.5	54.9
59	61.3	60.6	60.0	59.3	58.6	57.9	57.2	56.6	55.9	55.3
60	61.7	61.0	60.3	59.6	58.9	58.3	57.6	56.9	56.3	55.6
61	62.0	61.3	60.6	59.9	59.3	58.6	57.9	57.3	56.6	56.0
62	62.3	61.6	60.9	60.3	59.6	58.9	58.3	57.6	57.0	56.3
63	62.6	61.9	61.3	60.6	59.9	59.3	58.6	58.0	57.3	56.7
64	62.9	62.2	61.6	60.9	60.3	59.6	59.0	58.3	57.7	57.0
65	63.2	62.5	61.9	61.2	60.6	59.9	59.3	58.6	58.0	57.4
66	63.5	62.8	62.2	61.5	60.9	60.2	59.6	58.9	58.3	57.7
67	63.8	63.1	62.5	61.8	61.2	60.5	59.9	59.3	58.6	58.0
68	64.0	63.4	62.7	62.1	61.5	60.8	60.2	59.6	58.9	58.3
69	64.3	63.7	63.0	62.4	61.7	61.1	60.5	59.9	59.2	58.6
70	64.6	63.9	63.3	62.6	62.0	61.4	60.8	60.1	59.5	58.9
71	64.8	64.2	63.6	62.9	62.3	61.7	61.0	60.4	59.8	59.2
72	65.1	64.4	63.8	63.2	62.6	61.9	61.3	60.7	60.1	59.5
73	65.3	64.7	64.1	63.4	62.8	62.2	61.6	61.0	60.4	59.8
74	65.6	64.9	64.3	63.7	63.1	62.5	61.9	61.3	60.7	60.1
75	65.8	65.2	64.6	63.9	63.3	62.7	62.1	61.5	60.9	60.3
76	66.1	65.4	64.8	64.2	63.6	63.0	62.4	61.8	61.2	60.6
77	66.3	65.7	65.0	64.4	63.8	63.2	62.6	62.0	61.4	60.9
78	66.5	65.9	65.3	64.7	64.1	63.5	62.9	62.3	61.7	61.1
79	66.7	66.1	65.5	64.9	64.3	63.7	63.1	62.5	62.0	61.4
80	67.0	66.3	65.7	65.1	64.5	64.0	63.4	62.8	62.2	61.6
81	67.2	66.6	66.0	65.4	64.8	64.2	63.6	63.0	62.4	61.9
82	67.4	66.8	66.2	65.6	65.0	64.4	63.8	63.3	62.7	62.1
83	67.6	67.0	66.4	65.8	65.2	64.6	64.1	63.5	62.9	62.4
84	67.8	67.2	66.6	66.0	65.4	64.9	64.3	63.7	63.2	62.6
85	68.0	67.4	66.8	66.2	65.7	65.1	64.5	63.9	63.4	62.8
86	68.2	67.6	67.0	66.5	65.9	65.3	64.7	64.2	63.6	63.0
87	68.4	67.8	67.2	66.7	66.1	65.5	65.0	64.4	63.8	63.3
88	68.6	68.0	67.4	66.9	66.3	65.7	65.2	64.6	64.0	63.5
89	68.8	68.2	67.6	67.1	66.5	65.9	65.4	64.8	64.3	63.7
90	69.0	68.4	67.8	67.3	66.7	66.1	65.6	65.0	64.5	63.9
91	69.2	68.6	68.0	67.5	66.9	66.3	65.8	65.2	64.7	64.1
92	69.4	68.8	68.2	67.7	67.1	66.5	66.0	65.4	64.9	64.4
93	69.6	69.0	68.4	67.9	67.3	66.7	66.2	65.6	65.1	64.6
94	69.7	69.2	68.6	68.0	67.5	66.9	66.4	65.9	65.3	64.8
95	69.9	69.4	68.8	68.2	67.7	67.1	66.6	66.0	65.5	65.0
96	70.1	69.5	69.0	68.4	67.9	67.3	66.8	66.2	65.7	65.2
97	70.3	69.7	69.2	68.6	68.1	67.5	67.0	66.4	65.9	65.4
98	70.4	69.9	69.3	68.8	68.2	67.7	67.2	66.6	66.1	65.6
99	70.6	70.1	69.5	69.0	68.4	67.9	67.4	66.8	66.3	65.8
100	70.8	70.2	69.7	69.1	68.6	68.1	67.5	67.0	66.5	66.0

表 4c（续）

$t-t_w$ / t	11.5	12.0	12.5	13.5	13.5	14.0	14.5	15.0	15.5	16.0
15	5.8	2.5								
16	8.6	5.4	2.2							
17	11.2	8.1	5.0	2.0						
18	13.7	10.6	7.7	4.7	1.8					
19	16.0	13.0	10.1	7.3	4.5	1.7				
20	18.1	15.3	12.5	9.7	7.0	4.3	1.7			
21	20.2	17.4	14.7	12.0	9.3	6.7	4.2	1.6		
22	22.1	19.4	16.7	14.1	11.5	9.0	6.5	4.1	1.7	
23	23.9	21.3	18.7	16.1	13.6	11.2	8.7	6.4	4.0	1.7
24	25.6	23.0	20.5	18.0	15.6	13.2	10.8	8.5	6.2	4.0
25	27.2	24.7	22.2	19.8	17.4	15.1	12.8	10.5	8.3	6.1
26	28.7	26.3	23.9	21.5	19.2	16.9	14.6	12.4	10.3	8.1
27	30.1	27.8	25.4	23.1	20.8	18.6	16.4	14.2	12.1	10.1
28	31.5	29.2	26.9	24.6	22.4	20.2	18.1	16.0	13.9	11.9
29	32.8	30.5	28.2	26.0	23.9	21.7	19.6	17.6	15.6	13.6
30	34.0	31.8	29.6	27.4	25.3	23.2	21.1	19.1	17.1	15.2
31	35.2	33.0	30.8	28.7	26.6	24.5	22.5	20.6	18.6	16.7
32	36.3	34.1	32.0	29.9	27.9	25.8	23.9	21.9	20.0	18.2
33	37.3	35.2	33.1	31.1	29.1	27.1	25.1	23.2	21.4	19.5
34	38.3	36.2	34.2	32.2	30.2	28.3	26.4	24.5	22.7	20.9
35	39.3	37.2	35.2	33.2	31.3	29.4	27.5	25.7	23.9	22.1
36	40.2	38.2	36.2	34.2	32.3	30.4	28.6	26.8	25.0	23.3
37	41.1	39.1	37.1	35.2	33.3	31.5	29.6	27.9	26.1	24.4
38	41.9	39.9	38.0	36.1	34.2	32.4	30.6	28.9	27.2	25.5
39	42.7	40.7	38.8	37.0	35.2	33.4	31.6	29.9	28.2	26.5
40	43.5	41.5	39.7	37.8	36.0	34.2	32.5	30.8	29.1	27.5
41	44.2	42.3	40.4	38.6	36.8	35.1	33.4	31.7	30.1	28.5
42	44.9	43.0	41.2	39.4	37.6	35.9	34.2	32.6	30.9	29.4
43	45.6	43.7	41.9	40.1	38.4	36.7	35.0	33.4	31.8	30.2
44	46.2	44.4	42.6	40.8	39.1	37.4	35.8	34.2	32.6	31.0
45	46.8	45.0	43.3	41.5	39.8	38.2	36.5	34.9	33.4	31.8
46	47.4	45.6	43.9	42.2	40.5	38.9	37.2	35.7	34.1	32.6
47	48.0	46.2	44.5	42.8	41.2	39.5	37.9	36.4	34.8	33.3
48	48.6	46.8	45.1	43.4	41.8	40.2	38.6	37.0	35.5	34.0
49	49.1	47.4	45.7	44.0	42.4	40.8	39.2	37.7	36.2	34.7
50	49.6	47.9	46.2	44.6	43.0	41.4	39.8	38.3	36.8	35.4
51	50.1	48.4	46.8	45.1	43.5	42.0	40.4	38.9	37.5	36.0
52	50.6	48.9	47.3	45.7	44.1	42.5	41.0	39.5	38.1	36.6
53	51.1	49.4	47.8	46.2	44.6	43.1	41.6	40.1	38.6	37.2
54	51.5	49.9	48.3	46.7	45.1	43.6	42.1	40.6	39.2	37.8
55	52.0	50.3	48.7	47.2	45.6	44.1	42.6	41.2	39.8	38.4
56	52.4	50.8	49.2	47.6	46.1	44.6	43.1	41.7	40.3	38.9
57	52.8	51.2	49.6	48.1	46.6	45.1	43.6	42.2	40.8	39.4

表 4c（续）

$t-t_w$ t	11.5	12.0	12.5	13.5	13.5	14.0	14.5	15.0	15.5	16.0
58	53.2	51.6	50.1	48.5	47.0	45.6	44.1	42.7	41.3	39.9
59	53.6	52.0	50.5	49.0	47.5	46.0	44.6	43.2	41.8	40.4
60	54.0	52.4	50.9	49.4	47.9	46.4	45.0	43.6	42.2	40.9
61	54.4	52.8	51.3	49.8	48.3	46.9	45.5	44.1	42.7	41.4
62	54.8	53.2	51.7	50.2	48.7	47.3	45.9	44.5	43.2	41.8
63	55.1	53.6	52.1	50.6	49.1	47.7	46.3	44.9	43.6	42.3
64	55.5	53.9	52.4	51.0	49.5	48.1	46.7	45.3	44.0	42.7
65	55.8	54.3	52.8	51.3	49.9	48.5	47.1	45.8	44.4	43.1
66	56.2	54.6	53.2	51.7	50.3	48.9	47.5	46.1	44.8	43.5
67	56.5	55.0	53.5	52.1	50.6	49.2	47.9	46.5	45.2	43.9
68	56.8	55.3	53.8	52.4	51.0	49.6	48.2	46.9	45.6	44.3
69	57.1	55.6	54.2	52.7	51.3	50.0	48.6	47.3	46.0	44.7
70	57.4	55.9	54.5	53.1	51.7	50.3	49.0	47.7	46.4	45.1
71	57.7	56.3	54.8	53.4	52.0	50.7	49.3	48.0	46.7	45.5
72	58.0	56.6	55.1	53.7	52.3	51.0	49.7	48.4	47.1	45.8
73	58.3	56.9	55.4	54.0	52.7	51.3	50.0	48.7	47.4	46.2
74	58.6	57.2	55.7	54.3	53.0	51.6	50.3	49.0	47.8	46.5
75	58.9	57.4	56.0	54.6	53.3	52.0	50.6	49.4	48.1	46.9
76	59.1	57.7	56.3	54.9	53.6	52.3	51.0	49.7	48.4	47.2
77	59.4	58.0	56.6	55.2	53.9	52.6	51.3	50.0	48.8	47.5
78	59.7	58.3	56.9	55.5	54.2	52.9	51.6	50.3	49.1	47.9
79	59.9	58.5	57.2	55.8	54.5	53.2	51.9	50.6	49.4	48.2
80	60.2	58.8	57.4	56.1	54.8	53.5	52.2	50.9	49.7	48.5
81	60.5	59.1	57.7	56.4	55.0	53.7	52.5	51.2	50.0	48.8
82	60.7	59.3	58.0	56.6	55.3	54.0	52.8	51.5	50.3	49.1
83	61.0	59.6	58.2	56.9	55.6	54.3	53.0	51.8	50.6	49.4
84	61.2	59.8	58.5	57.2	55.9	54.6	53.3	52.1	50.9	49.7
85	61.4	60.1	58.7	57.4	56.1	54.8	53.6	52.4	51.2	50.0
86	61.7	60.3	59.0	57.7	56.4	55.1	53.9	52.6	51.4	50.3
87	61.9	60.6	59.2	57.9	56.6	55.4	54.1	52.9	51.7	50.5
88	62.1	60.8	59.5	58.2	56.9	55.6	54.4	52.0	52.0	50.8
89	62.4	61.0	59.7	58.4	57.1	55.9	54.7	53.5	52.3	51.1
90	62.6	61.2	59.9	58.7	57.4	56.1	54.9	53.7	52.5	51.4
91	62.8	61.5	60.2	58.9	57.6	56.4	55.2	54.0	52.8	51.6
92	63.0	61.7	60.4	59.1	57.9	56.6	55.4	54.2	53.1	51.9
93	63.2	61.9	60.6	59.4	58.1	56.9	55.7	54.5	53.3	52.2
94	63.4	62.1	60.9	59.6	58.3	57.1	55.9	54.7	53.6	52.4
95	63.7	62.4	61.1	59.8	58.6	57.4	56.2	55.0	53.8	52.7
96	63.9	62.6	61.3	60.0	58.8	57.6	56.4	55.2	54.1	52.9
97	64.1	62.8	61.5	60.3	59.0	57.8	56.6	55.5	54.3	53.2
98	64.3	63.0	61.7	60.5	59.3	58.1	56.9	55.7	54.6	53.4
99	64.5	63.2	61.9	60.7	59.5	58.3	57.1	55.9	54.8	53.7
100	64.7	63.4	62.1	60.9	59.7	58.5	57.3	56.2	55.0	53.9

表 5a₁ 球状水银温度表相对湿度查算表

$$P = 80 \text{ kPa}, A = 0.857 \times 10^{-3} \text{℃}^{-1}(0.4 \text{ m/s})$$

$t-t_w$ t	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0
15	100.0	99.0	97.9	96.9	95.8	94.8	93.8	92.8	91.7	90.7	89.7
16	100.0	99.0	98.0	97.0	96.0	95.0	94.0	93.0	92.0	91.0	90.0
17	100.0	99.0	98.0	97.1	96.1	95.1	94.1	93.2	92.2	91.2	90.3
18	100.0	99.0	98.1	97.1	96.2	95.2	94.3	93.4	92.4	91.5	90.6
19	100.0	99.1	98.1	97.2	96.3	95.4	94.4	93.5	92.6	91.7	90.8
20	100.0	99.1	98.2	97.3	96.4	95.5	94.6	93.7	92.8	91.9	91.0
21	100.0	99.1	98.2	97.3	96.5	95.6	94.7	93.8	93.0	92.1	91.3
22	100.0	99.1	98.3	97.4	96.5	95.7	94.8	94.0	93.1	92.3	91.5
23	100.0	99.2	98.3	97.5	96.6	95.8	95.0	94.1	93.3	92.5	91.7
24	100.0	99.2	98.3	97.5	96.7	95.9	95.1	94.3	93.5	92.7	91.9
25	100.0	99.2	98.4	97.6	96.8	96.0	95.2	94.4	93.6	92.8	92.0
26	100.0	99.2	98.4	97.6	96.8	96.1	95.3	94.5	93.7	93.0	92.2
27	100.0	99.2	98.4	97.7	96.9	96.1	95.4	94.6	93.9	93.1	92.4
28	100.0	99.2	98.5	97.7	97.0	96.2	95.5	94.7	94.0	93.2	92.5
29	100.0	99.3	98.5	97.8	97.0	96.3	95.6	94.8	94.1	93.4	92.6
30	100.0	99.3	98.5	97.8	97.1	96.4	95.6	94.9	94.2	93.5	92.8
31	100.0	99.3	98.6	97.8	97.1	96.4	95.7	95.0	94.3	93.6	92.9
32	100.0	99.3	98.6	97.9	97.2	96.5	95.8	95.1	94.4	93.7	93.0
33	100.0	99.3	98.6	97.9	97.2	96.5	95.9	95.2	94.5	93.8	93.2
34	100.0	99.3	98.6	98.0	97.3	96.6	95.9	95.3	94.6	93.9	93.3
35	100.0	99.3	98.7	98.0	97.3	96.7	96.0	95.3	94.7	94.0	93.4
36	100.0	99.3	98.7	98.0	97.4	96.7	96.1	95.4	94.8	94.1	93.5
37	100.0	99.3	98.7	98.0	97.4	96.8	96.1	95.5	94.8	94.2	93.6
38	100.0	99.4	98.7	98.1	97.4	96.8	96.2	95.6	94.9	94.3	93.7
39	100.0	99.4	98.7	98.1	97.5	96.9	96.2	95.6	95.0	94.4	93.8
40	100.0	99.4	98.8	98.1	97.5	96.9	96.3	95.7	95.1	94.5	93.9
41	100.0	99.4	98.8	98.2	97.5	96.9	96.3	95.7	95.1	94.5	93.9
42	100.0	99.4	98.8	98.2	97.6	97.0	96.4	95.8	95.2	94.6	94.0
43	100.0	99.4	98.8	98.2	97.6	97.0	96.4	95.9	95.3	94.7	94.1
44	100.0	99.4	98.8	98.2	97.6	97.1	96.5	95.9	95.3	94.8	94.2
45	100.0	99.4	98.8	98.3	97.7	97.1	96.5	96.0	95.4	94.8	94.3
46	100.0	99.4	98.8	98.3	97.7	97.1	96.6	96.0	95.4	94.9	94.3
47	100.0	99.4	98.9	98.3	97.7	97.2	96.6	96.1	95.5	94.9	94.4
48	100.0	99.4	98.9	98.3	97.8	97.2	96.7	96.1	95.6	95.0	94.5
49	100.0	99.4	98.9	98.3	97.8	97.2	96.7	96.1	95.6	95.1	94.5
50	100.0	99.4	98.9	98.4	97.8	97.3	96.7	96.2	95.7	95.1	94.6
51	100.0	99.5	98.9	98.4	97.8	97.3	96.8	96.2	95.7	95.2	94.6
52	100.0	99.5	98.9	98.4	97.9	97.3	96.8	96.3	95.7	95.2	94.7
53	100.0	99.5	98.9	98.4	97.9	97.4	96.8	96.3	95.8	95.3	94.8
54	100.0	99.5	98.9	98.4	97.9	97.4	96.9	96.4	95.8	95.3	94.8
55	100.0	99.5	99.0	98.4	97.9	97.4	96.9	96.4	95.9	95.4	94.9
56	100.0	99.5	99.0	98.5	97.9	97.4	96.9	96.4	95.9	95.4	94.9
57	100.0	99.5	99.0	98.5	98.0	97.5	97.0	96.5	96.0	95.5	95.0

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表 5a₁（续）

$t-t_w$ / t	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0
58	100.0	99.5	99.0	98.5	98.0	97.5	97.0	96.5	96.0	95.5	95.0
59	100.0	99.5	99.0	98.5	98.0	97.5	97.0	96.5	96.0	95.6	95.1
60	100.0	99.5	99.0	98.5	98.0	97.5	97.0	96.6	96.1	95.6	95.1
61	100.0	99.5	99.0	98.5	98.0	97.6	97.1	96.6	96.1	95.6	95.2
62	100.0	99.5	99.0	98.5	98.1	97.6	97.1	96.6	96.2	95.7	95.2
63	100.0	99.5	99.0	98.6	98.1	97.6	97.1	96.7	96.2	95.7	95.3
64	100.0	99.5	99.0	98.6	98.1	97.6	97.2	96.7	96.2	95.8	95.3
65	100.0	99.5	99.1	98.6	98.1	97.6	97.2	96.7	96.3	95.8	95.3
66	100.0	99.5	99.1	98.6	98.1	97.7	97.2	96.7	96.3	95.8	95.4
67	100.0	99.5	99.1	98.6	98.1	97.7	97.2	96.8	96.3	95.9	95.4
68	100.0	99.5	99.1	98.6	98.2	97.7	97.3	96.8	96.4	95.9	95.5
69	100.0	99.5	99.1	98.6	98.2	97.7	97.3	96.8	96.4	95.9	95.5
70	100.0	99.5	99.1	98.6	98.2	97.7	97.3	96.9	96.4	96.0	95.5
71	100.0	99.6	99.1	98.7	98.2	97.8	97.3	96.9	96.4	96.0	95.6
72	100.0	99.6	99.1	98.7	98.2	97.8	97.3	96.9	96.5	96.0	95.6
73	100.0	99.6	99.1	98.7	98.2	97.8	97.4	96.9	96.5	96.1	95.6
74	100.0	99.6	99.1	98.7	98.3	97.8	97.4	97.0	96.5	96.1	95.7
75	100.0	99.6	99.1	98.7	98.3	97.8	97.4	97.0	96.6	96.1	95.7
76	100.0	99.6	99.1	98.7	98.3	97.9	97.4	97.0	96.6	96.2	95.7
77	100.0	99.6	99.1	98.7	98.3	97.9	97.4	97.0	96.6	96.2	95.8
78	100.0	99.6	99.2	98.7	98.3	97.9	97.5	97.1	96.6	96.2	95.8
79	100.0	99.6	99.2	98.7	98.3	97.9	97.5	97.1	96.7	96.3	95.8
80	100.0	99.6	99.2	98.7	98.3	97.9	97.5	97.1	96.7	96.3	95.9
81	100.0	99.6	99.2	98.8	98.3	97.9	97.5	97.1	96.7	96.3	95.9
82	100.0	99.6	99.2	98.8	98.4	98.0	97.5	97.1	96.7	96.3	95.9
83	100.0	99.6	99.2	98.8	98.4	98.0	97.6	97.2	96.8	96.4	96.0
84	100.0	99.6	99.2	98.8	98.4	98.0	97.6	97.2	96.8	96.4	96.0
85	100.0	99.6	99.2	98.8	98.4	98.0	97.6	97.2	96.8	96.4	96.0
86	100.0	99.6	99.2	98.8	98.4	98.0	97.6	97.2	96.8	96.4	96.1
87	100.0	99.6	99.2	98.8	98.4	98.0	97.6	97.2	96.9	96.5	96.1
88	100.0	99.6	99.2	98.8	98.4	98.0	97.7	97.3	96.9	96.5	96.1
89	100.0	99.6	99.2	98.8	98.4	98.1	97.7	97.3	96.9	96.5	96.1
90	100.0	99.6	99.2	98.8	98.5	98.1	97.7	97.3	96.9	96.5	96.2
91	100.0	99.6	99.2	98.8	98.5	98.1	97.7	97.3	96.9	96.6	96.2
92	100.0	99.6	99.2	98.9	98.5	98.1	97.7	97.3	97.0	96.6	96.2
93	100.0	99.6	99.2	98.9	98.5	98.1	97.7	97.4	97.0	96.6	96.2
94	100.0	99.6	99.2	98.9	98.5	98.1	97.7	97.4	97.0	96.6	96.3
95	100.0	99.6	99.2	98.9	98.5	98.1	97.8	97.4	97.0	96.7	96.3
96	100.0	99.6	99.3	98.9	98.5	98.1	97.8	97.4	97.0	96.7	96.3
97	100.0	99.6	99.3	98.9	98.5	98.2	97.8	97.4	97.1	96.7	96.3
98	100.0	99.6	99.3	98.9	98.5	98.2	97.8	97.4	97.1	96.7	96.4
99	100.0	99.6	99.3	98.9	98.5	98.2	97.8	97.5	97.1	96.7	96.4
100	100.0	99.6	99.3	98.9	98.6	98.2	97.8	97.5	97.1	96.8	96.4

表 5a₁（续）

t－t_w / t	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0
15	88.7	87.7	86.7	85.7	84.7	83.7	82.7	81.7	80.8	79.8
16	89.0	88.1	87.1	86.1	85.1	84.2	83.2	82.3	81.3	80.4
17	89.3	88.4	87.4	86.5	85.6	84.6	83.7	82.8	81.8	80.9
18	89.6	88.7	87.8	86.9	86.0	85.0	84.1	83.2	82.3	81.4
19	89.9	89.0	88.1	87.2	86.3	85.4	84.6	83.7	82.8	81.9
20	90.2	89.3	88.4	87.5	86.7	85.8	85.0	84.1	83.2	82.4
21	90.4	89.5	88.7	87.9	87.0	86.2	85.3	84.5	83.7	82.8
22	90.6	89.8	89.0	88.1	87.3	86.5	85.7	84.9	84.1	83.2
23	90.8	90.0	89.2	88.4	87.6	86.8	86.0	85.2	84.4	83.6
24	91.1	90.3	89.5	88.7	87.9	87.1	86.3	85.5	84.8	84.0
25	91.2	90.5	89.7	88.9	88.2	87.4	86.6	85.9	85.1	84.4
26	91.4	90.7	89.9	89.2	88.4	87.7	86.9	86.2	85.4	84.7
27	91.6	90.9	90.1	89.4	88.6	87.9	87.2	86.4	85.7	85.0
28	91.8	91.0	90.3	89.6	88.9	88.1	87.4	86.7	86.0	85.3
29	91.9	91.2	90.5	89.8	89.1	88.4	87.7	87.0	86.3	85.6
30	92.1	91.4	90.7	90.0	89.3	88.6	87.9	87.2	86.5	85.8
31	92.2	91.5	90.8	90.2	89.5	88.8	88.1	87.4	86.8	86.1
32	92.4	91.7	91.0	90.3	89.7	89.0	88.3	87.7	87.0	86.3
33	92.5	91.8	91.2	90.5	89.8	89.2	88.5	87.9	87.2	86.6
34	92.6	92.0	91.3	90.7	90.0	89.4	88.7	88.1	87.4	86.8
35	92.7	92.1	91.4	90.8	90.2	89.5	88.9	88.3	87.6	87.0
36	92.8	92.2	91.6	91.0	90.3	89.7	89.1	88.5	87.8	87.2
37	93.0	92.3	91.7	91.1	90.5	89.9	89.2	88.6	88.0	87.4
38	93.1	92.4	91.8	91.2	90.6	90.0	89.4	88.8	88.2	87.6
39	93.2	92.6	92.0	91.3	90.7	90.2	89.6	89.0	88.4	87.8
40	93.3	92.7	92.1	91.5	90.9	90.3	89.7	89.1	88.5	88.0
41	93.4	92.8	92.2	91.6	91.0	90.4	89.8	89.3	88.7	88.1
42	93.4	92.9	92.3	91.7	91.1	90.6	90.0	89.4	88.8	88.3
43	93.5	93.0	92.4	91.8	91.2	90.7	90.1	89.6	89.0	88.4
44	93.6	93.0	92.5	91.9	91.4	90.8	90.2	89.7	89.1	88.6
45	93.7	93.1	92.6	92.0	91.5	90.9	90.4	89.8	89.3	88.7
46	93.8	93.2	92.7	92.1	91.6	91.0	90.5	89.9	89.4	88.9
47	93.8	93.3	92.8	92.2	91.7	91.1	90.6	90.1	89.5	89.0
48	93.9	93.4	92.8	92.3	91.8	91.2	90.7	90.2	89.7	89.1
49	94.0	93.5	92.9	92.4	91.9	91.3	90.8	90.3	89.8	89.3
50	94.1	93.5	93.0	92.5	92.0	91.4	90.9	90.4	89.9	89.4
51	94.1	93.6	93.1	92.6	92.0	91.5	91.0	90.5	90.0	89.5
52	94.2	93.7	93.2	92.6	92.1	91.6	91.1	90.6	90.1	89.6
53	94.2	93.7	93.2	92.7	92.2	91.7	91.2	90.7	90.2	89.7
54	94.3	93.8	93.3	92.8	92.3	91.8	91.3	90.8	90.3	89.8
55	94.4	93.9	93.4	92.9	92.4	91.9	91.4	90.9	90.4	89.9
56	94.4	93.9	93.4	92.9	92.5	92.0	91.5	91.0	90.5	90.0
57	94.5	94.0	93.5	93.0	92.5	92.0	91.6	91.1	90.6	90.1

表 5a₁（续）

t\t−t_w	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0
58	94.5	94.0	93.6	93.1	92.6	92.1	91.6	91.2	90.7	90.2
59	94.6	94.1	93.6	93.2	92.7	92.2	91.7	91.3	90.8	90.3
60	94.6	94.2	93.7	93.2	92.7	92.3	91.8	91.3	90.9	90.4
61	94.7	94.2	93.7	93.3	92.8	92.3	91.9	91.4	91.0	90.5
62	94.7	94.3	93.8	93.3	92.9	92.4	92.0	91.5	91.0	90.6
63	94.8	94.3	93.9	93.4	92.9	92.5	92.0	91.6	91.1	90.7
64	94.8	94.4	93.9	93.5	93.0	92.6	92.1	91.7	91.2	90.8
65	94.9	94.4	94.0	93.5	93.1	92.6	92.2	91.7	91.3	90.8
66	94.9	94.5	94.0	93.6	93.1	92.7	92.2	91.8	91.4	90.9
67	95.0	94.5	94.1	93.6	93.2	92.7	92.3	91.9	91.4	91.0
68	95.0	94.6	94.1	93.7	93.2	92.8	92.4	91.9	91.5	91.1
69	95.1	94.6	94.2	93.7	93.3	92.9	92.4	92.0	91.6	91.1
70	95.1	94.7	94.2	93.8	93.4	92.9	92.5	92.1	91.6	91.2
71	95.1	94.7	94.3	93.8	93.4	93.0	92.6	92.1	91.7	91.3
72	95.2	94.7	94.3	93.9	93.5	93.0	92.6	92.2	91.8	91.4
73	95.2	94.8	94.4	93.9	93.5	93.1	92.7	92.3	91.8	91.4
74	95.3	94.8	94.4	94.0	93.6	93.2	92.7	92.3	91.9	91.5
75	95.3	94.9	94.5	94.0	93.6	93.2	92.8	92.4	92.0	91.6
76	95.3	94.9	94.5	94.1	93.7	93.3	92.9	92.4	92.0	91.6
77	95.4	95.0	94.5	94.1	93.7	93.3	92.9	92.5	92.1	91.7
78	95.4	95.0	94.6	94.2	93.8	93.4	93.0	92.6	92.2	91.8
79	95.4	95.0	94.6	94.2	93.8	93.4	93.0	92.6	92.2	91.8
80	95.5	95.1	94.7	94.3	93.9	93.5	93.1	92.7	92.3	91.9
81	95.5	95.1	94.7	94.3	93.9	93.5	93.1	92.7	92.3	91.9
82	95.5	95.1	94.7	94.3	94.0	93.6	93.2	92.8	92.4	92.0
83	95.6	95.2	94.8	94.4	94.0	93.6	93.2	92.8	92.4	92.1
84	95.6	95.2	94.8	94.4	94.0	93.7	93.3	92.9	92.5	92.1
85	95.6	95.2	94.9	94.5	94.1	93.7	93.3	92.9	92.6	92.2
86	95.7	95.3	94.9	94.5	94.1	93.7	93.4	93.0	92.6	92.2
87	95.7	95.3	94.9	94.5	94.2	93.8	93.4	93.0	92.7	92.3
88	95.7	95.3	95.0	94.6	94.2	93.8	93.5	93.1	92.7	92.3
89	95.8	95.4	95.0	94.6	94.2	93.9	93.5	93.1	92.8	92.4
90	95.8	95.4	95.0	94.7	94.3	93.9	93.5	93.2	92.8	92.4
91	95.8	95.4	95.1	94.7	94.3	94.0	93.6	93.2	92.9	92.5
92	95.8	95.5	95.1	94.7	94.4	94.0	93.6	93.3	92.9	92.5
93	95.9	95.5	95.1	94.8	94.4	94.0	93.7	93.3	93.0	92.6
94	95.9	95.5	95.2	94.8	94.4	94.1	93.7	93.4	93.0	92.6
95	95.9	95.6	95.2	94.8	94.5	94.1	93.8	93.4	93.1	92.7
96	96.0	95.6	95.2	94.9	94.5	94.2	93.8	93.5	93.1	92.7
97	96.0	95.6	95.3	94.9	94.6	94.2	93.8	93.5	93.1	92.8
98	96.0	95.7	95.3	94.9	94.6	94.2	93.9	93.5	93.2	92.8
99	96.0	95.7	95.3	95.0	94.6	94.3	93.9	93.6	93.2	92.9
100	96.1	95.7	95.4	95.0	94.7	94.3	94.0	93.6	93.3	92.9

表 5a₁(续)

$t-t_w$ / t	2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9	3.0
15	78.8	77.8	76.9	75.9	74.9	74.0	73.0	72.1	71.1	70.2
16	79.4	78.5	77.5	76.6	75.7	74.7	73.8	72.9	72.0	71.0
17	80.0	79.1	78.2	77.3	76.4	75.5	74.6	73.7	72.8	71.9
18	80.5	79.7	78.8	77.9	77.0	76.1	75.3	74.4	73.5	72.6
19	81.1	80.2	79.3	78.5	77.6	76.8	75.9	75.1	74.2	73.4
20	81.5	80.7	79.9	79.0	78.2	77.4	76.5	75.7	74.9	74.1
21	82.0	81.2	80.4	79.5	78.7	77.9	77.1	76.3	75.5	74.7
22	82.4	81.6	80.8	80.0	79.2	78.5	77.7	76.9	76.1	75.3
23	82.8	82.1	81.3	80.5	79.7	79.0	78.2	77.4	76.7	75.9
24	83.2	82.5	81.7	80.9	80.2	79.4	78.7	77.9	77.2	76.4
25	83.6	82.8	82.1	81.4	80.6	79.9	79.1	78.4	77.7	77.0
26	83.9	83.2	82.5	81.8	81.0	80.3	79.6	78.9	78.2	77.4
27	84.3	83.6	82.8	82.1	81.4	80.7	80.0	79.3	78.6	77.9
28	84.6	83.9	83.2	82.5	81.8	81.1	80.4	79.7	79.0	78.4
29	84.9	84.2	83.5	82.8	82.1	81.5	80.8	80.1	79.4	78.8
30	85.2	84.5	83.8	83.1	82.5	81.8	81.1	80.5	79.8	79.2
31	85.4	84.8	84.1	83.4	82.8	82.1	81.5	80.8	80.2	79.5
32	85.7	85.0	84.4	83.7	83.1	82.5	81.8	81.2	80.5	79.9
33	85.9	85.3	84.7	84.0	83.4	82.8	82.1	81.5	80.9	80.3
34	86.2	85.5	84.9	84.3	83.7	83.0	82.4	81.8	81.2	80.6
35	86.4	85.8	85.2	84.5	83.9	83.3	82.7	82.1	81.5	80.9
36	86.6	86.0	85.4	84.8	84.2	83.6	83.0	82.4	81.8	81.2
37	86.8	86.2	85.6	85.0	84.4	83.8	83.2	82.7	82.1	81.5
38	87.0	86.4	85.8	85.2	84.7	84.1	83.5	82.9	82.3	81.8
39	87.2	86.6	86.0	85.5	84.9	84.3	83.7	83.2	82.6	82.0
40	87.4	86.8	86.2	85.7	85.1	84.5	84.0	83.4	82.8	82.3
41	87.6	87.0	86.4	85.9	85.3	84.7	84.2	83.6	83.1	82.5
42	87.7	87.2	86.6	86.0	85.5	84.9	84.4	83.8	83.3	82.8
43	87.9	87.3	86.8	86.2	85.7	85.1	84.6	84.1	83.5	83.0
44	88.0	87.5	86.9	86.4	85.9	85.3	84.8	84.3	83.7	83.2
45	88.2	87.7	87.1	86.6	86.0	85.5	85.0	84.5	83.9	83.4
46	88.3	87.8	87.3	86.7	86.2	85.7	85.2	84.7	84.1	83.6
47	88.5	87.9	87.4	86.9	86.4	85.9	85.3	84.8	84.3	83.8
48	88.6	88.1	87.6	87.1	86.5	86.0	85.5	85.0	84.5	84.0
49	88.7	88.2	87.7	87.2	86.7	86.2	85.7	85.2	84.7	84.2
50	88.9	88.4	87.9	87.3	86.8	86.3	85.8	85.4	84.9	84.4
51	89.0	88.5	88.0	87.5	87.0	86.5	86.0	85.5	85.0	84.5
52	89.1	88.6	88.1	87.6	87.1	86.6	86.2	85.7	85.2	84.7
53	89.2	88.7	88.2	87.8	87.3	86.8	86.3	85.8	85.3	84.9
54	89.3	88.9	88.4	87.9	87.4	86.9	86.4	86.0	85.5	85.0
55	89.4	89.0	88.5	88.0	87.5	87.1	86.6	86.1	85.6	85.2
56	89.6	89.1	88.6	88.1	87.7	87.2	86.7	86.3	85.8	85.3
57	89.7	89.2	88.7	88.2	87.8	87.3	86.8	86.4	85.9	85.5

表 5a₁（续）

t	2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9	3.0
58	89.8	89.3	88.8	88.4	87.9	87.4	87.0	86.5	86.1	85.6
59	89.9	89.4	88.9	88.5	88.0	87.6	87.1	86.6	86.2	85.7
60	90.0	89.5	89.0	88.6	88.1	87.7	87.2	86.8	86.3	85.9
61	90.0	89.6	89.1	88.7	88.2	87.8	87.3	86.9	86.5	86.0
62	90.1	89.7	89.2	88.8	88.3	87.9	87.5	87.0	86.6	86.1
63	90.2	89.8	89.3	88.9	88.4	88.0	87.6	87.1	86.7	86.3
64	90.3	89.9	89.4	89.0	88.5	88.1	87.7	87.2	86.8	86.4
65	90.4	90.0	89.5	89.1	88.6	88.2	87.8	87.4	86.9	86.5
66	90.5	90.0	89.6	89.2	88.7	88.3	87.9	87.5	87.0	86.6
67	90.6	90.1	89.7	89.3	88.8	88.4	88.0	87.6	87.1	86.7
68	90.6	90.2	89.8	89.4	88.9	88.5	88.1	87.7	87.3	86.8
69	90.7	90.3	89.9	89.5	89.0	88.6	88.2	87.8	87.4	86.9
70	90.8	90.4	90.0	89.5	89.1	88.7	88.3	87.9	87.5	87.1
71	90.9	90.5	90.0	89.6	89.2	88.8	88.4	88.0	87.6	87.2
72	90.9	90.5	90.1	89.7	89.3	88.9	88.5	88.1	87.7	87.3
73	91.0	90.6	90.2	89.8	89.4	89.0	88.6	88.2	87.8	87.4
74	91.1	90.7	90.3	89.9	89.5	89.1	88.7	88.3	87.9	87.5
75	91.2	90.8	90.3	89.9	89.5	89.1	88.7	88.4	88.0	87.6
76	91.2	90.8	90.4	90.0	89.6	89.2	88.8	88.4	88.0	87.7
77	91.3	90.9	90.5	90.1	89.7	89.3	88.9	88.5	88.1	87.7
78	91.4	91.0	90.6	90.2	89.8	89.4	89.0	88.6	88.2	87.8
79	91.4	91.0	90.6	90.2	89.9	89.5	89.1	88.7	88.3	87.9
80	91.5	91.1	90.7	90.3	89.9	89.5	89.2	88.8	88.4	88.0
81	91.6	91.2	90.8	90.4	90.0	89.6	89.2	88.9	88.5	88.1
82	91.6	91.2	90.8	90.5	90.1	89.7	89.3	88.9	88.6	88.2
83	91.7	91.3	90.9	90.5	90.2	89.8	89.4	89.0	88.7	88.3
84	91.7	91.4	91.0	90.6	90.2	89.9	89.5	89.1	88.7	88.4
85	91.8	91.4	91.0	90.7	90.3	89.9	89.6	89.2	88.8	88.4
86	91.9	91.5	91.1	90.7	90.4	90.0	89.6	89.3	88.9	88.5
87	91.9	91.5	91.2	90.8	90.4	90.1	89.7	89.3	89.0	88.6
88	92.0	91.6	91.2	90.9	90.5	90.1	89.8	89.4	89.0	88.7
89	92.0	91.7	91.3	90.9	90.6	90.2	89.8	89.5	89.1	88.8
90	92.1	91.7	91.4	91.0	90.6	90.3	89.9	89.6	89.2	88.8
91	92.1	91.8	91.4	91.1	90.7	90.3	90.0	89.6	89.3	88.9
92	92.2	91.8	91.5	91.1	90.8	90.4	90.0	89.7	89.3	89.0
93	92.2	91.9	91.5	91.2	90.8	90.5	90.1	89.8	89.4	89.1
94	92.3	91.9	91.6	91.2	90.9	90.5	90.2	89.8	89.5	89.1
95	92.3	92.0	91.6	91.3	90.9	90.6	90.2	89.9	89.6	89.2
96	92.4	92.0	91.7	91.3	91.0	90.7	90.3	90.0	89.6	89.3
97	92.4	92.1	91.7	91.4	91.1	90.7	90.4	90.0	89.7	89.3
98	92.5	92.1	91.8	91.5	91.1	90.8	90.4	90.1	89.8	89.4
99	92.5	92.2	91.9	91.5	91.2	90.8	90.5	90.2	89.8	89.5
100	92.6	92.2	91.9	91.6	91.2	90.9	90.6	90.2	89.9	89.6

表 5a₁（续）

$t-t_w$ t	3.1	3.2	3.3	3.4	3.5	3.6	3.7	3.8	3.9	4.0
15	69.2	68.3	67.4	66.4	65.5	64.6	63.6	62.7	61.8	60.9
16	70.1	69.2	68.3	67.4	66.5	65.6	64.7	63.8	62.9	62.0
17	71.0	70.1	69.2	68.3	67.5	66.6	65.7	64.9	64.0	63.1
18	71.8	70.9	70.1	69.2	68.4	67.5	66.7	65.8	65.0	64.1
19	72.5	71.7	70.9	70.0	69.2	68.4	67.6	66.7	65.9	65.1
20	73.2	72.4	71.6	70.8	70.0	69.2	68.4	67.6	66.8	66.0
21	73.9	73.1	72.3	71.5	70.8	70.0	69.2	68.4	67.6	66.9
22	74.5	73.8	73.0	72.2	71.5	70.7	69.9	69.2	68.4	67.7
23	75.1	74.4	73.6	72.9	72.1	71.4	70.6	69.9	69.2	68.4
24	75.7	75.0	74.2	73.5	72.8	72.0	71.3	70.6	69.9	69.2
25	76.2	75.5	74.8	74.1	73.4	72.7	71.9	71.2	70.5	69.8
26	76.7	76.0	75.3	74.6	73.9	73.2	72.5	71.9	71.2	70.5
27	77.2	76.5	75.8	75.2	74.5	73.8	73.1	72.4	71.8	71.1
28	77.7	77.0	76.3	75.6	75.0	74.3	73.6	73.0	72.3	71.7
29	78.1	77.4	76.8	76.1	75.5	74.8	74.2	73.5	72.9	72.2
30	78.5	77.9	77.2	76.6	75.9	75.3	74.6	74.0	73.4	72.7
31	78.9	78.3	77.6	77.0	76.4	75.7	75.1	74.5	73.9	73.2
32	79.3	78.7	78.0	77.4	76.8	76.2	75.5	74.9	74.3	73.7
33	79.6	79.0	78.4	77.8	77.2	76.6	76.0	75.4	74.8	74.2
34	80.0	79.4	78.8	78.2	77.6	77.0	76.4	75.8	75.2	74.6
35	80.3	79.7	79.1	78.5	77.9	77.3	76.8	76.2	75.6	75.0
36	80.6	80.0	79.4	78.9	78.3	77.7	77.1	76.5	76.0	75.4
37	80.9	80.3	79.8	79.2	78.6	78.0	77.5	76.9	76.3	75.8
38	81.2	80.6	80.1	79.5	78.9	78.4	77.8	77.3	76.7	76.1
39	81.5	80.9	80.3	79.8	79.2	78.7	78.1	77.6	77.0	76.5
40	81.7	81.2	80.6	80.1	79.5	79.0	78.4	77.9	77.4	76.8
41	82.0	81.4	80.9	80.3	79.8	79.3	78.7	78.2	77.7	77.1
42	82.2	81.7	81.1	80.6	80.1	79.5	79.0	78.5	78.0	77.5
43	82.5	81.9	81.4	80.9	80.3	79.8	79.3	78.8	78.3	77.7
44	82.7	82.2	81.6	81.1	80.6	80.1	79.6	79.0	78.5	78.0
45	82.9	82.4	81.9	81.3	80.8	80.3	79.8	79.3	78.8	78.3
46	83.1	82.6	82.1	81.6	81.1	80.6	80.1	79.6	79.1	78.6
47	83.3	82.8	82.3	81.8	81.3	80.8	80.3	79.8	79.3	78.8
48	83.5	83.0	82.5	82.0	81.5	81.0	80.5	80.0	79.6	79.1
49	83.7	83.2	82.7	82.2	81.7	81.2	80.8	80.3	79.8	79.3
50	83.9	83.4	82.9	82.4	81.9	81.4	81.0	80.5	80.0	79.5
51	84.1	83.6	83.1	82.6	82.1	81.7	81.2	80.7	80.2	79.8
52	84.2	83.7	83.3	82.8	82.3	81.8	81.4	80.9	80.4	80.0
53	84.4	83.9	83.4	83.0	82.5	82.0	81.6	81.1	80.7	80.2
54	84.6	84.1	83.6	83.2	82.7	82.2	81.8	81.3	80.9	80.4
55	84.7	84.2	83.8	83.3	82.9	82.4	82.0	81.5	81.0	80.6
56	84.9	84.4	83.9	83.5	83.0	82.6	82.1	81.7	81.2	80.8
57	85.0	84.6	84.1	83.7	83.2	82.8	82.3	81.9	81.4	81.0

表 5a₁（续）

t⁻tw	3.1	3.2	3.3	3.4	3.5	3.6	3.7	3.8	3.9	4.0
58	85.2	84.7	84.3	83.8	83.4	82.9	82.5	82.0	81.6	81.2
59	85.3	84.9	84.4	84.0	83.5	83.1	82.6	82.2	81.8	81.3
60	85.4	85.0	84.6	84.1	83.7	83.2	82.8	82.4	81.9	81.5
61	85.6	85.1	84.7	84.3	83.8	83.4	83.0	82.5	82.1	81.7
62	85.7	85.3	84.8	84.4	84.0	83.5	83.1	82.7	82.3	81.8
63	85.8	85.4	85.0	84.5	84.1	83.7	83.3	82.8	82.4	82.0
64	86.0	85.5	85.1	84.7	84.3	83.8	83.4	83.0	82.6	82.2
65	86.1	85.7	85.2	84.8	84.4	84.0	83.6	83.1	82.7	82.3
66	86.2	85.8	85.4	84.9	84.5	84.1	83.7	83.3	82.9	82.5
67	86.3	85.9	85.5	85.1	84.7	84.2	83.8	83.4	83.0	82.6
68	86.4	86.0	85.6	85.2	84.8	84.4	84.0	83.6	83.2	82.8
69	86.5	86.1	85.7	85.3	84.9	84.5	84.1	83.7	83.3	82.9
70	86.6	86.2	85.8	85.4	85.0	84.6	84.2	83.8	83.4	83.0
71	86.8	86.4	85.9	85.5	85.1	84.8	84.4	84.0	83.6	83.2
72	86.9	86.5	86.1	85.7	85.3	84.9	84.5	84.1	83.7	83.3
73	87.0	86.6	86.2	85.8	85.4	85.0	84.6	84.2	83.8	83.4
74	87.1	86.7	86.3	85.9	85.5	85.1	84.7	84.3	83.9	83.6
75	87.2	86.8	86.4	86.0	85.6	85.2	84.8	84.5	84.1	83.7
76	87.3	86.9	86.5	86.1	85.7	85.3	85.0	84.6	84.2	83.8
77	87.4	87.0	86.6	86.2	85.8	85.4	85.1	84.7	84.3	83.9
78	87.5	87.1	86.7	86.3	85.9	85.6	85.2	84.8	84.4	84.1
79	87.5	87.2	86.8	86.4	86.0	85.7	85.3	84.9	84.5	84.2
80	87.6	87.3	86.9	86.5	86.1	85.8	85.4	85.0	84.7	84.3
81	87.7	87.4	87.0	86.6	86.2	85.9	85.5	85.1	84.8	84.4
82	87.8	87.4	87.1	86.7	86.3	86.0	85.6	85.2	84.9	84.5
83	87.9	87.5	87.2	86.8	86.4	86.1	85.7	85.3	85.0	84.6
84	88.0	87.6	87.3	86.9	86.5	86.2	85.8	85.4	85.1	84.7
85	88.1	87.7	87.4	87.0	86.6	86.3	85.9	85.5	85.2	84.8
86	88.2	87.8	87.4	87.1	86.7	86.4	86.0	85.6	85.3	84.9
87	88.2	87.9	87.5	87.2	86.8	86.5	86.1	85.7	85.4	85.0
88	88.3	88.0	87.6	87.3	86.9	86.5	86.2	85.8	85.5	85.1
89	88.4	88.1	87.7	87.3	87.0	86.6	86.3	85.9	85.6	85.2
90	88.5	88.1	87.8	87.4	87.1	86.7	86.4	86.0	85.7	85.3
91	88.6	88.2	87.9	87.5	87.2	86.8	86.5	86.1	85.8	85.4
92	88.6	88.3	87.9	87.6	87.3	86.9	86.6	86.2	85.9	85.5
93	88.7	88.4	88.0	87.7	87.3	87.0	86.7	86.3	86.0	85.6
94	88.8	88.4	88.1	87.8	87.4	87.1	86.7	86.4	86.1	85.7
95	88.9	88.5	88.2	87.8	87.5	87.2	86.8	86.5	86.2	85.8
96	88.9	88.6	88.3	87.9	87.6	87.2	86.9	86.6	86.2	85.9
97	89.0	88.7	88.3	88.0	87.7	87.3	87.0	86.7	86.3	86.0
98	89.1	88.7	88.4	88.1	87.7	87.4	87.1	86.8	86.4	86.1
99	89.2	88.8	88.5	88.2	87.8	87.5	87.2	86.8	86.5	86.2
100	89.2	88.9	88.6	88.2	87.9	87.6	87.2	86.9	86.6	86.3

表 5a₁（续）

$t-t_w$ t	4.1	4.2	4.3	4.4	4.5	4.6	4.7	4.8	4.9	5.0
15	60.0	59.1	58.2	57.2	56.3	55.5	54.6	53.7	52.8	51.9
16	61.2	60.3	59.4	58.5	57.6	56.8	55.9	55.0	54.2	53.3
17	62.3	61.4	60.6	59.7	58.9	58.0	57.2	56.3	55.5	54.7
18	63.3	62.5	61.7	60.8	60.0	59.2	58.4	57.6	56.7	55.9
19	64.3	63.5	62.7	61.9	61.1	60.3	59.5	58.7	57.9	57.1
20	65.2	64.4	63.7	62.9	62.1	61.3	60.6	59.8	59.0	58.3
21	66.1	65.3	64.6	63.8	63.1	62.3	61.5	60.8	60.1	59.3
22	66.9	66.2	65.4	64.7	64.0	63.2	62.5	61.8	61.0	60.3
23	67.7	67.0	66.3	65.5	64.8	64.1	63.4	62.7	62.0	61.2
24	68.4	67.7	67.0	66.3	65.6	64.9	64.2	63.5	62.8	62.1
25	69.1	68.4	67.8	67.1	66.4	65.7	65.0	64.3	63.6	63.0
26	69.8	69.1	68.4	67.8	67.1	66.4	65.8	65.1	64.4	63.8
27	70.4	69.8	69.1	68.4	67.8	67.1	66.5	65.8	65.2	64.5
28	71.0	70.4	69.7	69.1	68.4	67.8	67.1	66.5	65.9	65.2
29	71.6	70.9	70.3	69.7	69.0	68.4	67.8	67.2	66.5	65.9
30	72.1	71.5	70.9	70.2	69.6	69.0	68.4	67.8	67.2	66.6
31	72.6	72.0	71.4	70.8	70.2	69.6	69.0	68.4	67.8	67.2
32	73.1	72.5	71.9	71.3	70.7	70.1	69.5	68.9	68.3	67.8
33	73.6	73.0	72.4	71.8	71.2	70.6	70.0	69.5	68.9	68.3
34	74.0	73.4	72.9	72.3	71.7	71.1	70.5	70.0	69.4	68.8
35	74.4	73.9	73.3	72.7	72.2	71.6	71.0	70.5	69.9	69.4
36	74.8	74.3	73.7	73.2	72.6	72.0	71.5	70.9	70.4	69.8
37	75.2	74.7	74.1	73.6	73.0	72.5	71.9	71.4	70.8	70.3
38	75.6	75.0	74.5	74.0	73.4	72.9	72.3	71.8	71.3	70.7
39	76.0	75.4	74.9	74.3	73.8	73.3	72.7	72.2	71.7	71.2
40	76.3	75.8	75.2	74.7	74.2	73.7	73.1	72.6	72.1	71.6
41	76.6	76.1	75.6	75.0	74.5	74.0	73.5	73.0	72.5	72.0
42	76.9	76.4	75.9	75.4	74.9	74.4	73.9	73.4	72.8	72.3
43	77.2	76.7	76.2	75.7	75.2	74.7	74.2	73.7	73.2	72.7
44	77.5	77.0	76.5	76.0	75.5	75.0	74.5	74.0	73.5	73.1
45	77.8	77.3	76.8	76.3	75.8	75.3	74.8	74.4	73.9	73.4
46	78.1	77.6	77.1	76.6	76.1	75.6	75.2	74.7	74.2	73.7
47	78.3	77.9	77.4	76.9	76.4	75.9	75.4	75.0	74.5	74.0
48	78.6	78.1	77.6	77.2	76.7	76.2	75.7	75.3	74.8	74.3
49	78.8	78.4	77.9	77.4	76.9	76.5	76.0	75.5	75.1	74.6
50	79.1	78.6	78.1	77.7	77.2	76.7	76.3	75.8	75.4	74.9
51	79.3	78.8	78.4	77.9	77.4	77.0	76.5	76.1	75.6	75.2
52	79.5	79.1	78.6	78.1	77.7	77.2	76.8	76.3	75.9	75.4
53	79.7	79.3	78.8	78.4	77.9	77.5	77.0	76.6	76.1	75.7
54	79.9	79.5	79.0	78.6	78.2	77.7	77.3	76.8	76.4	75.9
55	80.1	79.7	79.3	78.8	78.4	77.9	77.5	77.1	76.6	76.2
56	80.3	79.9	79.5	79.0	78.6	78.1	77.7	77.3	76.9	76.4
57	80.5	80.1	79.7	79.2	78.8	78.4	77.9	77.5	77.1	76.7

表 5a₁（续）

$t-t_w$ t	4.1	4.2	4.3	4.4	4.5	4.6	4.7	4.8	4.9	5.0
58	80.7	80.3	79.9	79.4	79.0	78.6	78.1	77.7	77.3	76.9
59	80.9	80.5	80.0	79.6	79.2	78.8	78.3	77.9	77.5	77.1
60	81.1	80.7	80.2	79.8	79.4	79.0	78.5	78.1	77.7	77.3
61	81.3	80.8	80.4	80.0	79.6	79.2	78.7	78.3	77.9	77.5
62	81.4	81.0	80.6	80.2	79.8	79.3	78.9	78.5	78.1	77.7
63	81.6	81.2	80.8	80.3	79.9	79.5	79.1	78.7	78.3	77.9
64	81.7	81.3	80.9	80.5	80.1	79.7	79.3	78.9	78.5	78.1
65	81.9	81.5	81.1	80.7	80.3	79.9	79.5	79.1	78.7	78.3
66	82.1	81.7	81.3	80.8	80.4	80.0	79.7	79.3	78.9	78.5
67	82.2	81.8	81.4	81.0	80.6	80.2	79.8	79.4	79.0	78.6
68	82.4	82.0	81.6	81.2	80.8	80.4	80.0	79.6	79.2	78.8
69	82.5	82.1	81.7	81.3	80.9	80.5	80.1	79.8	79.4	79.0
70	82.6	82.3	81.9	81.5	81.1	80.7	80.3	79.9	79.5	79.2
71	82.8	82.4	82.0	81.6	81.2	80.8	80.5	80.1	79.7	79.3
72	82.9	82.5	82.1	81.8	81.4	81.0	80.6	80.2	79.9	79.5
73	83.1	82.7	82.3	81.9	81.5	81.1	80.8	80.4	80.0	79.6
74	83.2	82.8	82.4	82.0	81.7	81.3	80.9	80.5	80.2	79.8
75	83.3	82.9	82.6	82.2	81.8	81.4	81.1	80.7	80.3	80.0
76	83.4	83.1	82.7	82.3	81.9	81.6	81.2	80.8	80.5	80.1
77	83.6	83.2	82.8	82.4	82.1	81.7	81.3	81.0	80.6	80.2
78	83.7	83.3	82.9	82.6	82.2	81.8	81.5	81.1	80.8	80.4
79	83.8	83.4	83.1	82.7	82.3	82.0	81.6	81.3	80.9	80.5
80	83.9	83.6	83.2	82.8	82.5	82.1	81.7	81.4	81.0	80.7
81	84.0	83.7	83.3	83.0	82.6	82.2	81.9	81.5	81.2	80.8
82	84.1	83.8	83.4	83.1	82.7	82.4	82.0	81.7	81.3	80.9
83	84.3	83.9	83.5	83.2	82.8	82.5	82.1	81.8	81.4	81.1
84	84.4	84.0	83.7	83.3	83.0	82.6	82.3	81.9	81.6	81.2
85	84.5	84.1	83.8	83.4	83.1	82.7	82.4	82.0	81.7	81.3
86	84.6	84.2	83.9	83.5	83.2	82.8	82.5	82.2	81.8	81.5
87	84.7	84.3	84.0	83.7	83.3	83.0	82.6	82.3	81.9	81.6
88	84.8	84.5	84.1	83.8	83.4	83.1	82.7	82.4	82.1	81.7
89	84.9	84.6	84.2	83.9	83.5	83.2	82.9	82.5	82.2	81.8
90	85.0	84.7	84.3	84.0	83.6	83.3	83.0	82.6	82.3	82.0
91	85.1	84.8	84.4	84.1	83.7	83.4	83.1	82.7	82.4	82.1
92	85.2	84.9	84.5	84.2	83.9	83.5	83.2	82.9	82.5	82.2
93	85.3	85.0	84.6	84.3	84.0	83.6	83.3	83.0	82.6	82.3
94	85.4	85.1	84.7	84.4	84.1	83.7	83.4	83.1	82.8	82.4
95	85.5	85.2	84.8	84.5	84.2	83.8	83.5	83.2	82.9	82.5
96	85.6	85.3	84.9	84.6	84.3	83.9	83.6	83.3	83.0	82.7
97	85.7	85.3	85.0	84.7	84.4	84.0	83.7	83.4	83.1	82.8
98	85.8	85.4	85.1	84.8	84.5	84.1	83.8	83.5	83.2	82.9
99	85.9	85.5	85.2	84.9	84.6	84.2	83.9	83.6	83.3	83.0
100	85.9	85.6	85.3	85.0	84.7	84.3	84.0	83.7	83.4	83.1

表 5a₁（续）

$t-t_w$ $\backslash$ t	5.2	5.4	5.6	5.8	6.0	6.2	6.4	6.6	6.8	7.0
15	50.1	48.4	46.6	44.9	43.2	41.5	39.8	38.1	36.4	34.7
16	51.6	49.9	48.2	46.6	44.9	43.2	41.6	40.0	38.3	36.7
17	53.0	51.4	49.7	48.1	46.5	44.9	43.3	41.7	40.1	38.6
18	54.3	52.7	51.1	49.6	48.0	46.4	44.9	43.4	41.8	40.3
19	55.6	54.0	52.5	50.9	49.4	47.9	46.4	44.9	43.4	42.0
20	56.7	55.2	53.7	52.2	50.8	49.3	47.8	46.4	44.9	43.5
21	57.8	56.4	54.9	53.4	52.0	50.6	49.2	47.7	46.3	45.0
22	58.9	57.4	56.0	54.6	53.2	51.8	50.4	49.0	47.7	46.3
23	59.8	58.4	57.1	55.7	54.3	53.0	51.6	50.3	48.9	47.6
24	60.8	59.4	58.0	56.7	55.4	54.0	52.7	51.4	50.1	48.8
25	61.6	60.3	59.0	57.7	56.4	55.1	53.8	52.5	51.2	50.0
26	62.5	61.2	59.9	58.6	57.3	56.0	54.8	53.5	52.3	51.1
27	63.2	62.0	60.7	59.4	58.2	57.0	55.7	54.5	53.3	52.1
28	64.0	62.7	61.5	60.3	59.0	57.8	56.6	55.4	54.3	53.1
29	64.7	63.5	62.2	61.0	59.8	58.7	57.5	56.3	55.2	54.0
30	65.4	64.2	63.0	61.8	60.6	59.4	58.3	57.1	56.0	54.9
31	66.0	64.8	63.6	62.5	61.3	60.2	59.1	57.9	56.8	55.7
32	66.6	65.4	64.3	63.2	62.0	60.9	59.8	58.7	57.6	56.5
33	67.2	66.0	64.9	63.8	62.7	61.6	60.5	59.4	58.3	57.3
34	67.7	66.6	65.5	64.4	63.3	62.2	61.2	60.1	59.0	58.0
35	68.2	67.2	66.1	65.0	63.9	62.8	61.8	60.7	59.7	58.7
36	68.7	67.7	66.6	65.5	64.5	63.4	62.4	61.4	60.3	59.3
37	69.2	68.2	67.1	66.1	65.0	64.0	63.0	62.0	61.0	60.0
38	69.7	68.6	67.6	66.6	65.6	64.5	63.5	62.5	61.5	60.6
39	70.1	69.1	68.1	67.1	66.1	65.1	64.1	63.1	62.1	61.1
40	70.6	69.5	68.5	67.5	66.5	65.5	64.6	63.6	62.6	61.7
41	71.0	70.0	69.0	68.0	67.0	66.0	65.1	64.1	63.2	62.2
42	71.3	70.4	69.4	68.4	67.4	66.5	65.5	64.6	63.6	62.7
43	71.7	70.7	69.8	68.8	67.9	66.9	66.0	65.0	64.1	63.2
44	72.1	71.1	70.2	69.2	68.3	67.3	66.4	65.5	64.6	63.7
45	72.4	71.5	70.5	69.6	68.7	67.7	66.8	65.9	65.0	64.1
46	72.8	71.8	70.9	70.0	69.0	68.1	67.2	66.3	65.4	64.6
47	73.1	72.2	71.2	70.3	69.4	68.5	67.6	66.7	65.8	65.0
48	73.4	72.5	71.6	70.7	69.8	68.9	68.0	67.1	66.2	65.4
49	73.7	72.8	71.9	71.0	70.1	69.2	68.4	67.5	66.6	65.8
50	74.0	73.1	72.2	71.3	70.4	69.6	68.7	67.8	67.0	66.1
51	74.3	73.4	72.5	71.6	70.8	69.9	69.0	68.2	67.3	66.5
52	74.6	73.7	72.8	71.9	71.1	70.2	69.4	68.5	67.7	66.9
53	74.8	73.9	73.1	72.2	71.4	70.5	69.7	68.9	68.0	67.2
54	75.1	74.2	73.4	72.5	71.7	70.8	70.0	69.2	68.4	67.5
55	75.3	74.5	73.6	72.8	71.9	71.1	70.3	69.5	68.7	67.9
56	75.6	74.7	73.9	73.0	72.2	71.4	70.6	69.8	69.0	68.2
57	75.8	75.0	74.1	73.3	72.5	71.7	70.9	70.1	69.3	68.5

表 5a₁（续）

t－tₘ / t	5.2	5.4	5.6	5.8	6.0	6.2	6.4	6.6	6.8	7.0
58	76.0	75.2	74.4	73.6	72.7	71.9	71.1	70.3	69.6	68.8
59	76.3	75.4	74.6	73.8	73.0	72.2	71.4	70.6	69.8	69.1
60	76.5	75.7	74.9	74.0	73.2	72.5	71.7	70.9	70.1	69.3
61	76.7	75.9	75.1	74.3	73.5	72.7	71.9	71.1	70.4	69.6
62	76.9	76.1	75.3	74.5	73.7	72.9	72.2	71.4	70.6	69.9
63	77.1	76.3	75.5	74.7	74.0	73.2	72.4	71.7	70.9	70.1
64	77.3	76.5	75.7	74.9	74.2	73.4	72.6	71.9	71.1	70.4
65	77.5	76.7	75.9	75.2	74.4	73.6	72.9	72.1	71.4	70.6
66	77.7	76.9	76.1	75.4	74.6	73.9	73.1	72.4	71.6	70.9
67	77.9	77.1	76.3	75.6	74.8	74.1	73.3	72.6	71.9	71.1
68	78.0	77.3	76.5	75.8	75.0	74.3	73.5	72.8	72.1	71.4
69	78.2	77.5	76.7	76.0	75.2	74.5	73.8	73.0	72.3	71.6
70	78.4	77.6	76.9	76.2	75.4	74.7	74.0	73.2	72.5	71.8
71	78.6	77.8	77.1	76.3	75.6	74.9	74.2	73.4	72.7	72.0
72	78.7	78.0	77.3	76.5	75.8	75.1	74.4	73.6	72.9	72.2
73	78.9	78.2	77.4	76.7	76.0	75.3	74.6	73.8	73.1	72.4
74	79.1	78.3	77.6	76.9	76.2	75.5	74.7	74.0	73.3	72.7
75	79.2	78.5	77.8	77.1	76.3	75.6	74.9	74.2	73.5	72.9
76	79.4	78.7	77.9	77.2	76.5	75.8	75.1	74.4	73.7	73.1
77	79.5	78.8	78.1	77.4	76.7	76.0	75.3	74.6	73.9	73.2
78	79.7	79.0	78.3	77.6	76.9	76.2	75.5	74.8	74.1	73.4
79	79.8	79.1	78.4	77.7	77.0	76.3	75.6	75.0	74.3	73.6
80	80.0	79.3	78.6	77.9	77.2	76.5	75.8	75.1	74.5	73.8
81	80.1	79.4	78.7	78.0	77.3	76.7	76.0	75.3	74.7	74.0
82	80.2	79.6	78.9	78.2	77.5	76.8	76.2	75.5	74.8	74.2
83	80.4	79.7	79.0	78.3	77.7	77.0	76.3	75.7	75.0	74.3
84	80.5	79.8	79.2	78.5	77.8	77.1	76.5	75.8	75.2	74.5
85	80.7	80.0	79.3	78.6	78.0	77.3	76.6	76.0	75.3	74.7
86	80.8	80.1	79.4	78.8	78.1	77.5	76.8	76.1	75.5	74.9
87	80.9	80.2	79.6	78.9	78.3	77.6	77.0	76.3	75.7	75.0
88	81.0	80.4	79.7	79.1	78.4	77.8	77.1	76.5	75.8	75.2
89	81.2	80.5	79.9	79.2	78.5	77.9	77.3	76.6	76.0	75.4
90	81.3	80.6	80.0	79.3	78.7	78.0	77.4	76.8	76.1	75.5
91	81.4	80.8	80.1	79.5	78.8	78.2	77.5	76.9	76.3	75.7
92	81.5	80.9	80.2	79.6	79.0	78.3	77.7	77.1	76.4	75.8
93	81.7	81.0	80.4	79.7	79.1	78.5	77.8	77.2	76.6	76.0
94	81.8	81.1	80.5	79.9	79.2	78.6	78.0	77.4	76.7	76.1
95	81.9	81.3	80.6	80.0	79.4	78.7	78.1	77.5	76.9	76.3
96	82.0	81.4	80.7	80.1	79.5	78.9	78.2	77.6	77.0	76.4
97	82.1	81.5	80.9	80.2	79.6	79.0	78.4	77.8	77.2	76.6
98	82.2	81.6	81.0	80.4	79.7	79.1	78.5	77.9	77.3	76.7
99	82.3	81.7	81.1	80.5	79.9	79.3	78.7	78.0	77.4	76.9
100	82.5	81.8	81.2	80.6	80.0	79.4	78.8	78.2	77.6	77.0

表 5a₁（续）

t＼$t-t_w$	7.2	7.4	7.6	7.8	8.0	8.2	8.4	8.6	8.8	9.0
15	33.1	31.4	29.8	28.2	26.6	25.0	23.4	21.8	20.2	18.6
16	35.1	33.5	31.9	30.4	28.8	27.3	25.7	24.2	22.7	21.1
17	37.0	35.5	34.0	32.4	30.9	29.4	27.9	26.4	25.0	23.5
18	38.8	37.3	35.8	34.4	32.9	31.4	30.0	28.6	27.1	25.7
19	40.5	39.1	37.6	36.2	34.8	33.3	31.9	30.5	29.2	27.8
20	42.1	40.7	39.3	37.9	36.5	35.1	33.8	32.4	31.1	29.7
21	43.6	42.2	40.8	39.5	38.1	36.8	35.5	34.2	32.9	31.6
22	45.0	43.6	42.3	41.0	39.7	38.4	37.1	35.8	34.6	33.3
23	46.3	45.0	43.7	42.4	41.2	39.9	38.6	37.4	36.1	34.9
24	47.6	46.3	45.0	43.8	42.5	41.3	40.1	38.9	37.6	36.4
25	48.7	47.5	46.3	45.0	43.8	42.6	41.4	40.2	39.1	37.9
26	49.9	48.6	47.4	46.2	45.1	43.9	42.7	41.6	40.4	39.3
27	50.9	49.7	48.5	47.4	46.2	45.1	43.9	42.8	41.7	40.6
28	51.9	50.8	49.6	48.5	47.3	46.2	45.1	44.0	42.9	41.8
29	52.9	51.7	50.6	49.5	48.4	47.3	46.2	45.1	44.0	42.9
30	53.8	52.6	51.5	50.4	49.4	48.3	47.2	46.1	45.1	44.0
31	54.6	53.5	52.4	51.4	50.3	49.2	48.2	47.2	46.1	45.1
32	55.4	54.4	53.3	52.2	51.2	50.2	49.1	48.1	47.1	46.1
33	56.2	55.2	54.1	53.1	52.1	51.0	50.0	49.0	48.0	47.0
34	56.9	55.9	54.9	53.9	52.9	51.9	50.9	49.9	48.9	47.9
35	57.7	56.6	55.6	54.6	53.6	52.7	51.7	50.7	49.7	48.8
36	58.3	57.3	56.3	55.3	54.4	53.4	52.4	51.5	50.5	49.6
37	59.0	58.0	57.0	56.0	55.1	54.1	53.2	52.2	51.3	50.4
38	59.6	58.6	57.7	56.7	55.8	54.8	53.9	53.0	52.0	51.1
39	60.2	59.2	58.3	57.3	56.4	55.5	54.6	53.6	52.7	51.8
40	60.7	59.8	58.9	57.9	57.0	56.1	55.2	54.3	53.4	52.5
41	61.3	60.3	59.4	58.5	57.6	56.7	55.8	54.9	54.1	53.2
42	61.8	60.9	60.0	59.1	58.2	57.3	56.4	55.5	54.7	53.8
43	62.3	61.4	60.5	59.6	58.7	57.8	57.0	56.1	55.3	54.4
44	62.8	61.9	61.0	60.1	59.2	58.4	57.5	56.7	55.8	55.0
45	63.2	62.4	61.5	60.6	59.8	58.9	58.1	57.2	56.4	55.6
46	63.7	62.8	61.9	61.1	60.2	59.4	58.6	57.7	56.9	56.1
47	64.1	63.2	62.4	61.5	60.7	59.9	59.0	58.2	57.4	56.6
48	64.5	63.7	62.8	62.0	61.2	60.3	59.5	58.7	57.9	57.1
49	64.9	64.1	63.2	62.4	61.6	60.8	60.0	59.2	58.4	57.6
50	65.3	64.5	63.7	62.8	62.0	61.2	60.4	59.6	58.8	58.0
51	65.7	64.9	64.0	63.2	62.4	61.6	60.8	60.1	59.3	58.5
52	66.0	65.2	64.4	63.6	62.8	62.0	61.2	60.5	59.7	58.9
53	66.4	65.6	64.8	64.0	63.2	62.4	61.6	60.9	60.1	59.4
54	66.7	65.9	65.1	64.4	63.6	62.8	62.0	61.3	60.5	59.8
55	67.1	66.3	65.5	64.7	63.9	63.2	62.4	61.7	60.9	60.2
56	67.4	66.6	65.8	65.1	64.3	63.5	62.8	62.0	61.3	60.5
57	67.7	66.9	66.1	65.4	64.6	63.9	63.1	62.4	61.6	60.9

表 5a₁（续）

$t-t_w$ / t	7.2	7.4	7.6	7.8	8.0	8.2	8.4	8.6	8.8	9.0
58	68.0	67.2	66.5	65.7	65.0	64.2	63.5	62.7	62.0	61.3
59	68.3	67.5	66.8	66.0	65.3	64.5	63.8	63.1	62.3	61.6
60	68.6	67.8	67.1	66.3	65.6	64.9	64.1	63.4	62.7	62.0
61	68.9	68.1	67.4	66.6	65.9	65.2	64.4	63.7	63.0	62.3
62	69.1	68.4	67.6	66.9	66.2	65.5	64.7	64.0	63.3	62.6
63	69.4	68.7	67.9	67.2	66.5	65.8	65.0	64.3	63.6	62.9
64	69.7	68.9	68.2	67.5	66.8	66.0	65.3	64.6	63.9	63.3
65	69.9	69.2	68.5	67.7	67.0	66.3	65.6	64.9	64.2	63.6
66	70.2	69.4	68.7	68.0	67.3	66.6	65.9	65.2	64.5	63.8
67	70.4	69.7	69.0	68.3	67.6	66.9	66.2	65.5	64.8	64.1
68	70.6	69.9	69.2	68.5	67.8	67.1	66.4	65.8	65.1	64.4
69	70.9	70.2	69.5	68.8	68.1	67.4	66.7	66.0	65.4	64.7
70	71.1	70.4	69.7	69.0	68.3	67.6	67.0	66.3	65.6	65.0
71	71.3	70.6	69.9	69.2	68.6	67.9	67.2	66.6	65.9	65.2
72	71.5	70.8	70.2	69.5	68.8	68.1	67.5	66.8	66.1	65.5
73	71.8	71.1	70.4	69.7	69.0	68.4	67.7	67.0	66.4	65.7
74	72.0	71.3	70.6	69.9	69.3	68.6	67.9	67.3	66.6	66.0
75	72.2	71.5	70.8	70.2	69.5	68.8	68.2	67.5	66.9	66.2
76	72.4	71.7	71.0	70.4	69.7	69.1	68.4	67.8	67.1	66.5
77	72.6	71.9	71.2	70.6	69.9	69.3	68.6	68.0	67.3	66.7
78	72.8	72.1	71.4	70.8	70.1	69.5	68.8	68.2	67.6	66.9
79	73.0	72.3	71.6	71.0	70.3	69.7	69.1	68.4	67.8	67.2
80	73.1	72.5	71.8	71.2	70.5	69.9	69.3	68.6	68.0	67.4
81	73.3	72.7	72.0	71.4	70.8	70.1	69.5	68.9	68.2	67.6
82	73.5	72.9	72.2	71.6	70.9	70.3	69.7	69.1	68.5	67.8
83	73.7	73.1	72.4	71.8	71.1	70.5	69.9	69.3	68.7	68.0
84	73.9	73.2	72.6	72.0	71.3	70.7	70.1	69.5	68.9	68.3
85	74.0	73.4	72.8	72.2	71.5	70.9	70.3	69.7	69.1	68.5
86	74.2	73.6	73.0	72.3	71.7	71.1	70.5	69.9	69.3	68.7
87	74.4	73.8	73.1	72.5	71.9	71.3	70.7	70.1	69.5	68.9
88	74.6	73.9	73.3	72.7	72.1	71.5	70.9	70.3	69.7	69.1
89	74.7	74.1	73.5	72.9	72.3	71.7	71.1	70.5	69.9	69.3
90	74.9	74.3	73.7	73.0	72.4	71.8	71.2	70.6	70.0	69.5
91	75.0	74.4	73.8	73.2	72.6	72.0	71.4	70.8	70.2	69.6
92	75.2	74.6	74.0	73.4	72.8	72.2	71.6	71.0	70.4	69.8
93	75.4	74.8	74.1	73.5	73.0	72.4	71.8	71.2	70.6	70.0
94	75.5	74.9	74.3	73.7	73.1	72.5	71.9	71.4	70.8	70.2
95	75.7	75.1	74.5	73.9	73.3	72.7	72.1	71.5	71.0	70.4
96	75.8	75.2	74.6	74.0	73.4	72.9	72.3	71.7	71.1	70.6
97	76.0	75.4	74.8	74.2	73.6	73.0	72.5	71.9	71.3	70.7
98	76.1	75.5	74.9	74.3	73.8	73.2	72.6	72.0	71.5	70.9
99	76.3	75.7	75.1	74.5	73.9	73.4	72.8	72.2	71.6	71.1
100	76.4	75.8	75.2	74.7	74.1	73.5	72.9	72.4	71.8	71.3

表 5a₁（续）

$t-t_w$ t	9.2	9.4	9.6	9.8	10.0	10.2	10.4	10.6	10.8	11.0
15	17.1	15.5	14.0	12.4	10.9	9.4	7.9	6.4	4.9	3.4
16	19.6	18.1	16.6	15.2	13.7	12.2	10.8	9.3	7.9	6.5
17	22.0	20.6	19.2	17.7	16.3	14.9	13.5	12.1	10.7	9.3
18	24.3	22.9	21.5	20.1	18.7	17.4	16.0	14.7	13.3	12.0
19	26.4	25.0	23.7	22.4	21.0	19.7	18.4	17.1	15.8	14.5
20	28.4	27.1	25.8	24.5	23.2	21.9	20.6	19.3	18.1	16.8
21	30.3	29.0	27.7	26.4	25.2	23.9	22.7	21.5	20.2	19.0
22	32.0	30.8	29.5	28.3	27.1	25.9	24.7	23.5	22.3	21.1
23	33.7	32.5	31.3	30.1	28.9	27.7	26.5	25.4	24.2	23.1
24	35.3	34.1	32.9	31.7	30.6	29.4	28.3	27.1	26.0	24.9
25	36.7	35.6	34.4	33.3	32.2	31.0	29.9	28.8	27.7	26.6
26	38.1	37.0	35.9	34.8	33.7	32.6	31.5	30.4	29.3	28.3
27	39.4	38.3	37.3	36.2	35.1	34.0	33.0	31.9	30.9	29.8
28	40.7	39.6	38.6	37.5	36.4	35.4	34.4	33.3	32.3	31.3
29	41.9	40.8	39.8	38.7	37.7	36.7	35.7	34.7	33.7	32.7
30	43.0	42.0	41.0	39.9	38.9	37.9	36.9	35.9	35.0	34.0
31	44.1	43.1	42.1	41.1	40.1	39.1	38.1	37.1	36.2	35.2
32	45.1	44.1	43.1	42.1	41.2	40.2	39.2	38.3	37.4	36.4
33	46.1	45.1	44.1	43.2	42.2	41.3	40.3	39.4	38.5	37.5
34	47.0	46.0	45.1	44.1	43.2	42.3	41.3	40.4	39.5	38.6
35	47.8	46.9	46.0	45.0	44.1	43.2	42.3	41.4	40.5	39.6
36	48.7	47.8	46.8	45.9	45.0	44.1	43.2	42.4	41.5	40.6
37	49.5	48.6	47.7	46.8	45.9	45.0	44.1	43.2	42.4	41.5
38	50.2	49.3	48.4	47.6	46.7	45.8	45.0	44.1	43.3	42.4
39	51.0	50.1	49.2	48.3	47.5	46.6	45.8	44.9	44.1	43.3
40	51.7	50.8	49.9	49.1	48.2	47.4	46.5	45.7	44.9	44.1
41	52.3	51.5	50.6	49.8	48.9	48.1	47.3	46.5	45.6	44.8
42	53.0	52.1	51.3	50.4	49.6	48.8	48.0	47.2	46.4	45.6
43	53.6	52.7	51.9	51.1	50.3	49.5	48.7	47.9	47.1	46.3
44	54.2	53.3	52.5	51.7	50.9	50.1	49.3	48.5	47.7	47.0
45	54.7	53.9	53.1	52.3	51.5	50.7	49.9	49.2	48.4	47.6
46	55.3	54.5	53.7	52.9	52.1	51.3	50.5	49.8	49.0	48.3
47	55.8	55.0	54.2	53.4	52.7	51.9	51.1	50.4	49.6	48.9
48	56.3	55.5	54.7	54.0	53.2	52.4	51.7	50.9	50.2	49.5
49	56.8	56.0	55.3	54.5	53.7	53.0	52.2	51.5	50.7	50.0
50	57.3	56.5	55.7	55.0	54.2	53.5	52.7	52.0	51.3	50.6
51	57.7	57.0	56.2	55.5	54.7	54.0	53.2	52.5	51.8	51.1
52	58.2	57.4	56.7	55.9	55.2	54.5	53.7	53.0	52.3	51.6
53	58.6	57.9	57.1	56.4	55.6	54.9	54.2	53.5	52.8	52.1
54	59.0	58.3	57.5	56.8	56.1	55.4	54.7	54.0	53.3	52.6
55	59.4	58.7	58.0	57.2	56.5	55.8	55.1	54.4	53.7	53.0
56	59.8	59.1	58.4	57.6	56.9	56.2	55.5	54.8	54.2	53.5
57	60.2	59.5	58.8	58.0	57.3	56.6	55.9	55.3	54.6	53.9

表 5a₁（续）

$t-t_w$ / t	9.2	9.4	9.6	9.8	10.0	10.2	10.4	10.6	10.8	11.0
58	60.6	59.8	59.1	58.4	57.7	57.0	56.4	55.7	55.0	54.3
59	60.9	60.2	59.5	58.8	58.1	57.4	56.7	56.1	55.4	54.7
60	61.3	60.6	59.9	59.2	58.5	57.8	57.1	56.5	55.8	55.1
61	61.6	60.9	60.2	59.5	58.8	58.2	57.5	56.8	56.2	55.5
62	61.9	61.2	60.6	59.9	59.2	58.5	57.9	57.2	56.5	55.9
63	62.3	61.6	60.9	60.2	59.5	58.9	58.2	57.6	56.9	56.3
64	62.6	61.9	61.2	60.5	59.9	59.2	58.6	57.9	57.3	56.6
65	62.9	62.2	61.5	60.9	60.2	59.5	58.9	58.3	57.6	57.0
66	63.2	62.5	61.8	61.2	60.5	59.9	59.2	58.6	57.9	57.3
67	63.5	62.8	62.1	61.5	60.8	60.2	59.5	58.9	58.3	57.6
68	63.8	63.1	62.4	61.8	61.1	60.5	59.9	59.2	58.6	58.0
69	64.0	63.4	62.7	62.1	61.4	60.8	60.2	59.5	58.9	58.3
70	64.3	63.7	63.0	62.4	61.7	61.1	60.5	59.8	59.2	58.6
71	64.6	63.9	63.3	62.6	62.0	61.4	60.8	60.1	59.5	58.9
72	64.8	64.2	63.6	62.9	62.3	61.7	61.0	60.4	59.8	59.2
73	65.1	64.5	63.8	63.2	62.6	61.9	61.3	60.7	60.1	59.5
74	65.4	64.7	64.1	63.5	62.8	62.2	61.6	61.0	60.4	59.8
75	65.6	65.0	64.3	63.7	63.1	62.5	61.9	61.3	60.7	60.1
76	65.8	65.2	64.6	64.0	63.4	62.8	62.1	61.5	60.9	60.4
77	66.1	65.5	64.8	64.2	63.6	63.0	62.4	61.8	61.2	60.6
78	66.3	65.7	65.1	64.5	63.9	63.3	62.7	62.1	61.5	60.9
79	66.6	65.9	65.3	64.7	64.1	63.5	62.9	62.3	61.7	61.2
80	66.8	66.2	65.6	65.0	64.4	63.8	63.2	62.6	62.0	61.4
81	67.0	66.4	65.8	65.2	64.6	64.0	63.4	62.8	62.2	61.7
82	67.2	66.6	66.0	65.4	64.8	64.2	63.7	63.1	62.5	61.9
83	67.4	66.8	66.2	65.6	65.1	64.5	63.9	63.3	62.7	62.2
84	67.7	67.1	66.5	65.9	65.3	64.7	64.1	63.5	63.0	62.4
85	67.9	67.3	66.7	66.1	65.5	64.9	64.4	63.8	63.2	62.6
86	68.1	67.5	66.9	66.3	65.7	65.2	64.6	64.0	63.4	62.9
87	68.3	67.7	67.1	66.5	65.9	65.4	64.8	64.2	63.7	63.1
88	68.5	67.9	67.3	66.7	66.2	65.6	65.0	64.5	63.9	63.3
89	68.7	68.1	67.5	66.9	66.4	65.8	65.2	64.7	64.1	63.6
90	68.9	68.3	67.7	67.1	66.6	66.0	65.5	64.9	64.3	63.8
91	69.1	68.5	67.9	67.3	66.8	66.2	65.7	65.1	64.6	64.0
92	69.3	68.7	68.1	67.5	67.0	66.4	65.9	65.3	64.8	64.2
93	69.4	68.9	68.3	67.7	67.2	66.6	66.1	65.5	65.0	64.4
94	69.6	69.1	68.5	67.9	67.4	66.8	66.3	65.7	65.2	64.7
95	69.8	69.3	68.7	68.1	67.6	67.0	66.5	65.9	65.4	64.9
96	70.0	69.4	68.9	68.3	67.8	67.2	66.7	66.1	65.6	65.1
97	70.2	69.6	69.1	68.5	68.0	67.4	66.9	66.3	65.8	65.3
98	70.4	69.8	69.2	68.7	68.2	67.6	67.1	66.5	66.0	65.5
99	70.5	70.0	69.4	68.9	68.3	67.8	67.3	66.7	66.2	65.7
100	70.7	70.2	69.6	69.1	68.5	68.0	67.4	66.9	66.4	65.9

表 5a₁（续）

t−tw \ t	11.5	12.0	12.5	13.5	13.5	14.0	14.5	15.0	15.5	16.0
15										
16	2.9									
17	5.9	2.5								
18	8.7	5.4	2.2							
19	11.3	8.1	5.0	2.0						
20	13.7	10.7	7.7	4.7	1.8					
21	16.0	13.1	10.1	7.3	4.4	1.7				
22	18.2	15.3	12.5	9.7	6.9	4.2	1.6			
23	20.2	17.4	14.7	12.0	9.3	6.7	4.1	1.6		
24	22.1	19.4	16.7	14.1	11.5	9.0	6.5	4.0	1.6	
25	23.9	21.3	18.7	16.1	13.6	11.1	8.7	6.3	3.9	1.6
26	25.6	23.1	20.5	18.0	15.6	13.1	10.8	8.4	6.1	3.9
27	27.3	24.7	22.2	19.8	17.4	15.1	12.7	10.5	8.2	6.0
28	28.8	26.3	23.9	21.5	19.2	16.9	14.6	12.4	10.2	8.1
29	30.2	27.8	25.4	23.1	20.8	18.6	16.4	14.2	12.1	10.0
30	31.6	29.2	26.9	24.6	22.4	20.2	18.0	15.9	13.8	11.8
31	32.9	30.6	28.3	26.1	23.9	21.7	19.6	17.6	15.5	13.5
32	34.1	31.8	29.6	27.4	25.3	23.2	21.1	19.1	17.1	15.1
33	35.3	33.1	30.9	28.7	26.6	24.6	22.6	20.6	18.6	16.7
34	36.4	34.2	32.1	30.0	27.9	25.9	23.9	22.0	20.0	18.2
35	37.5	35.3	33.2	31.1	29.1	27.1	25.2	23.3	21.4	19.5
36	38.5	36.4	34.3	32.3	30.3	28.3	26.4	24.5	22.7	20.9
37	39.4	37.4	35.3	33.3	31.4	29.5	27.6	25.7	23.9	22.1
38	40.3	38.3	36.3	34.3	32.4	30.5	28.7	26.9	25.1	23.3
39	41.2	39.2	37.2	35.3	33.4	31.6	29.7	27.9	26.2	24.5
40	42.1	40.1	38.1	36.2	34.4	32.5	30.7	29.0	27.3	25.6
41	42.9	40.9	39.0	37.1	35.3	33.5	31.7	30.0	28.3	26.6
42	43.6	41.7	39.8	38.0	36.2	34.4	32.6	30.9	29.2	27.6
43	44.4	42.5	40.6	38.8	37.0	35.2	33.5	31.8	30.2	28.6
44	45.1	43.2	41.4	39.6	37.8	36.1	34.4	32.7	31.1	29.5
45	45.7	43.9	42.1	40.3	38.6	36.9	35.2	33.5	31.9	30.3
46	46.4	44.6	42.8	41.0	39.3	37.6	36.0	34.3	32.7	31.2
47	47.0	45.2	43.5	41.7	40.0	38.3	36.7	35.1	33.5	32.0
48	47.6	45.8	44.1	42.4	40.7	39.0	37.4	35.8	34.3	32.8
49	48.2	46.5	44.7	43.0	41.4	39.7	38.1	36.6	35.0	33.5
50	48.8	47.0	45.3	43.6	42.0	40.4	38.8	37.2	35.7	34.2
51	49.3	47.6	45.9	44.2	42.6	41.0	39.4	37.9	36.4	34.9
52	49.8	48.1	46.5	44.8	43.2	41.6	40.1	38.5	37.0	35.6
53	50.4	48.7	47.0	45.4	43.8	42.2	40.7	39.2	37.7	36.2
54	50.8	49.2	47.5	45.9	44.3	42.8	41.2	39.7	38.3	36.8
55	51.3	49.7	48.0	46.4	44.9	43.3	41.8	40.3	38.9	37.4
56	51.8	50.1	48.5	46.9	45.4	43.8	42.3	40.9	39.4	38.0
57	52.2	50.6	49.0	47.4	45.9	44.4	42.9	41.4	40.0	38.6

表 5a₁（续）

$t-t_w$ / t	11.5	12.0	12.5	13.5	13.5	14.0	14.5	15.0	15.5	16.0
58	52.7	51.0	49.5	47.9	46.4	44.9	43.4	41.9	40.5	39.1
59	53.1	51.5	49.9	48.4	46.8	45.3	43.9	42.4	41.0	39.7
60	53.5	51.9	50.3	48.8	47.3	45.8	44.4	42.9	41.5	40.2
61	53.9	52.3	50.8	49.2	47.7	46.3	44.8	43.4	42.0	40.7
62	54.3	52.7	51.2	49.7	48.2	46.7	45.3	43.9	42.5	41.2
63	54.7	53.1	51.6	50.1	48.6	47.2	45.7	44.3	43.0	41.6
64	55.0	53.5	52.0	50.5	49.0	47.6	46.2	44.8	43.4	42.1
65	55.4	53.9	52.4	50.9	49.4	48.0	46.6	45.2	43.9	42.5
66	55.8	54.2	52.7	51.3	49.8	48.4	47.0	45.6	44.3	43.0
67	56.1	54.6	53.1	51.6	50.2	48.8	47.4	46.0	44.7	43.4
68	56.4	54.9	53.4	52.0	50.6	49.2	47.8	46.4	45.1	43.8
69	56.8	55.3	53.8	52.4	50.9	49.5	48.2	46.8	45.5	44.2
70	57.1	55.6	54.1	52.7	51.3	49.9	48.6	47.2	45.9	44.6
71	57.4	55.9	54.5	53.0	51.6	50.3	48.9	47.6	46.3	45.0
72	57.7	56.2	54.8	53.4	52.0	50.6	49.3	48.0	46.7	45.4
73	58.0	56.6	55.1	53.7	52.3	51.0	49.6	48.3	47.0	45.8
74	58.3	56.9	55.4	54.0	52.7	51.3	50.0	48.7	47.4	46.1
75	58.6	57.2	55.7	54.3	53.0	51.6	50.3	49.0	47.7	46.5
76	58.9	57.5	56.0	54.7	53.3	52.0	50.6	49.4	48.1	46.8
77	59.2	57.7	56.3	55.0	53.6	52.3	51.0	49.7	48.4	47.2
78	59.4	58.0	56.6	55.3	53.9	52.6	51.3	50.0	48.8	47.5
79	59.7	58.3	56.9	55.6	54.2	52.9	51.6	50.3	49.1	47.9
80	60.0	58.6	57.2	55.8	54.5	53.2	51.9	50.6	49.4	48.2
81	60.2	58.8	57.5	56.1	54.8	53.5	52.2	51.0	49.7	48.5
82	60.5	59.1	57.7	56.4	55.1	53.8	52.5	51.3	50.0	48.8
83	60.8	59.4	58.0	56.7	55.4	54.1	52.8	51.6	50.3	49.1
84	61.0	59.6	58.3	56.9	55.6	54.4	53.1	51.8	50.6	49.4
85	61.3	59.9	58.5	57.2	55.9	54.6	53.4	52.1	50.9	49.7
86	61.5	60.1	58.8	57.5	56.2	54.9	53.7	52.4	51.2	50.0
87	61.7	60.4	59.0	57.7	56.4	55.2	53.9	52.7	51.5	50.3
88	62.0	60.6	59.3	58.0	56.7	55.4	54.2	53.0	51.8	50.6
89	62.2	60.9	59.5	58.2	57.0	55.7	54.5	53.3	52.1	50.9
90	62.4	61.1	59.8	58.5	57.2	56.0	54.7	53.5	52.3	51.2
91	62.7	61.3	60.0	58.7	57.5	56.2	55.0	53.8	52.6	51.4
92	62.9	61.6	60.3	59.0	57.7	56.5	55.3	54.1	52.9	51.7
93	63.1	61.8	60.5	59.2	58.0	56.7	55.5	54.3	53.1	52.0
94	63.3	62.0	60.7	59.4	58.2	57.0	55.8	54.6	53.4	52.2
95	63.5	62.2	60.9	59.7	58.4	57.2	56.0	54.8	53.7	52.5
96	63.7	62.4	61.2	59.9	58.7	57.4	56.2	55.1	53.9	52.8
97	64.0	62.7	61.4	60.1	58.9	57.7	56.5	55.3	54.2	53.0
98	64.2	62.9	61.6	60.4	59.1	57.9	56.7	55.6	54.4	53.3
99	64.4	63.1	61.8	60.6	59.4	58.2	57.0	55.8	54.7	53.5
100	64.6	63.3	62.0	60.8	59.6	58.4	57.2	56.0	54.9	53.8

表 5a₂ 柱状水银温度表相对湿度查算表

$P=80\text{ kPa},A=0.815\times10^{-3}\text{℃}^{-1}(0.4\text{ m/s})$

$t{-}t_w$ t	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0
15	100.0	99.0	98.0	96.9	95.9	94.9	93.9	92.9	91.9	90.9	89.9
16	100.0	99.0	98.0	97.0	96.0	95.1	94.1	93.1	92.1	91.2	90.2
17	100.0	99.0	98.1	97.1	96.1	95.2	94.2	93.3	92.3	91.4	90.5
18	100.0	99.1	98.1	97.2	96.2	95.3	94.4	93.5	92.5	91.6	90.7
19	100.0	99.1	98.2	97.3	96.3	95.4	94.5	93.6	92.7	91.8	91.0
20	100.0	99.1	98.2	97.3	96.4	95.5	94.7	93.8	92.9	92.0	91.2
21	100.0	99.1	98.3	97.4	96.5	95.7	94.8	93.9	93.1	92.2	91.4
22	100.0	99.1	98.3	97.4	96.6	95.8	94.9	94.1	93.2	92.4	91.6
23	100.0	99.2	98.3	97.5	96.7	95.9	95.0	94.2	93.4	92.6	91.8
24	100.0	99.2	98.4	97.6	96.7	95.9	95.1	94.3	93.5	92.8	92.0
25	100.0	99.2	98.4	97.6	96.8	96.0	95.2	94.5	93.7	92.9	92.1
26	100.0	99.2	98.4	97.7	96.9	96.1	95.3	94.6	93.8	93.1	92.3
27	100.0	99.2	98.5	97.7	96.9	96.2	95.4	94.7	93.9	93.2	92.4
28	100.0	99.2	98.5	97.7	97.0	96.3	95.5	94.8	94.1	93.3	92.6
29	100.0	99.3	98.5	97.8	97.1	96.3	95.6	94.9	94.2	93.4	92.7
30	100.0	99.3	98.6	97.8	97.1	96.4	95.7	95.0	94.3	93.6	92.9
31	100.0	99.3	98.6	97.9	97.2	96.5	95.8	95.1	94.4	93.7	93.0
32	100.0	99.3	98.6	97.9	97.2	96.5	95.8	95.1	94.5	93.8	93.1
33	100.0	99.3	98.6	97.9	97.3	96.6	95.9	95.2	94.6	93.9	93.2
34	100.0	99.3	98.6	98.0	97.3	96.6	96.0	95.3	94.6	94.0	93.3
35	100.0	99.3	98.7	98.0	97.3	96.7	96.0	95.4	94.7	94.1	93.4
36	100.0	99.3	98.7	98.0	97.4	96.7	96.1	95.5	94.8	94.2	93.5
37	100.0	99.4	98.7	98.1	97.4	96.8	96.2	95.5	94.9	94.3	93.6
38	100.0	99.4	98.7	98.1	97.5	96.8	96.2	95.6	95.0	94.3	93.7
39	100.0	99.4	98.7	98.1	97.5	96.9	96.3	95.6	95.0	94.4	93.8
40	100.0	99.4	98.8	98.1	97.5	96.9	96.3	95.7	95.1	94.5	93.9
41	100.0	99.4	98.8	98.2	97.6	97.0	96.4	95.8	95.2	94.6	94.0
42	100.0	99.4	98.8	98.2	97.6	97.0	96.4	95.8	95.2	94.7	94.1
43	100.0	99.4	98.8	98.2	97.6	97.0	96.5	95.9	95.3	94.7	94.1
44	100.0	99.4	98.8	98.2	97.7	97.1	96.5	95.9	95.4	94.8	94.2
45	100.0	99.4	98.8	98.3	97.7	97.1	96.5	96.0	95.4	94.9	94.3
46	100.0	99.4	98.9	98.3	97.7	97.2	96.6	96.0	95.5	94.9	94.4
47	100.0	99.4	98.9	98.3	97.7	97.2	96.6	96.1	95.5	95.0	94.4
48	100.0	99.4	98.9	98.3	97.8	97.2	96.7	96.1	95.6	95.0	94.5
49	100.0	99.4	98.9	98.3	97.8	97.3	96.7	96.2	95.6	95.1	94.6
50	100.0	99.5	98.9	98.4	97.8	97.3	96.7	96.2	95.7	95.1	94.6
51	100.0	99.5	98.9	98.4	97.8	97.3	96.8	96.2	95.7	95.2	94.7
52	100.0	99.5	98.9	98.4	97.9	97.3	96.8	96.3	95.8	95.2	94.7
53	100.0	99.5	98.9	98.4	97.9	97.4	96.8	96.3	95.8	95.3	94.8
54	100.0	99.5	99.0	98.4	97.9	97.4	96.9	96.4	95.9	95.3	94.8
55	100.0	99.5	99.0	98.4	97.9	97.4	96.9	96.4	95.9	95.4	94.9
56	100.0	99.5	99.0	98.5	98.0	97.4	96.9	96.4	95.9	95.4	94.9
57	100.0	99.5	99.0	98.5	98.0	97.5	97.0	96.5	96.0	95.5	95.0

表 5a₂（续）

t \ t−t_w	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0
58	100.0	99.5	99.0	98.5	98.0	97.5	97.0	96.5	96.0	95.5	95.0
59	100.0	99.5	99.0	98.5	98.0	97.5	97.0	96.5	96.1	95.6	95.1
60	100.0	99.5	99.0	98.5	98.0	97.5	97.1	96.6	96.1	95.6	95.1
61	100.0	99.5	99.0	98.5	98.1	97.6	97.1	96.6	96.1	95.7	95.2
62	100.0	99.5	99.0	98.5	98.1	97.6	97.1	96.6	96.2	95.7	95.2
63	100.0	99.5	99.0	98.6	98.1	97.6	97.1	96.7	96.2	95.7	95.3
64	100.0	99.5	99.0	98.6	98.1	97.6	97.2	96.7	96.2	95.8	95.3
65	100.0	99.5	99.1	98.6	98.1	97.7	97.2	96.7	96.3	95.8	95.4
66	100.0	99.5	99.1	98.6	98.1	97.7	97.2	96.8	96.3	95.8	95.4
67	100.0	99.5	99.1	98.6	98.2	97.7	97.2	96.8	96.3	95.9	95.4
68	100.0	99.5	99.1	98.6	98.2	97.7	97.3	96.8	96.4	95.9	95.5
69	100.0	99.5	99.1	98.6	98.2	97.7	97.3	96.8	96.4	95.9	95.5
70	100.0	99.5	99.1	98.6	98.2	97.8	97.3	96.9	96.4	96.0	95.5
71	100.0	99.6	99.1	98.7	98.2	97.8	97.3	96.9	96.5	96.0	95.6
72	100.0	99.6	99.1	98.7	98.2	97.8	97.4	96.9	96.5	96.0	95.6
73	100.0	99.6	99.1	98.7	98.2	97.8	97.4	96.9	96.5	96.1	95.7
74	100.0	99.6	99.1	98.7	98.3	97.8	97.4	97.0	96.5	96.1	95.7
75	100.0	99.6	99.1	98.7	98.3	97.8	97.4	97.0	96.6	96.1	95.7
76	100.0	99.6	99.1	98.7	98.3	97.9	97.4	97.0	96.6	96.2	95.8
77	100.0	99.6	99.1	98.7	98.3	97.9	97.5	97.0	96.6	96.2	95.8
78	100.0	99.6	99.2	98.7	98.3	97.9	97.5	97.1	96.6	96.2	95.8
79	100.0	99.6	99.2	98.7	98.3	97.9	97.5	97.1	96.7	96.3	95.8
80	100.0	99.6	99.2	98.8	98.3	97.9	97.5	97.1	96.7	96.3	95.9
81	100.0	99.6	99.2	98.8	98.3	97.9	97.5	97.1	96.7	96.3	95.9
82	100.0	99.6	99.2	98.8	98.4	98.0	97.5	97.1	96.7	96.3	95.9
83	100.0	99.6	99.2	98.8	98.4	98.0	97.6	97.2	96.8	96.4	96.0
84	100.0	99.6	99.2	98.8	98.4	98.0	97.6	97.2	96.8	96.4	96.0
85	100.0	99.6	99.2	98.8	98.4	98.0	97.6	97.2	96.8	96.4	96.0
86	100.0	99.6	99.2	98.8	98.4	98.0	97.6	97.2	96.8	96.4	96.1
87	100.0	99.6	99.2	98.8	98.4	98.0	97.6	97.2	96.9	96.5	96.1
88	100.0	99.6	99.2	98.8	98.4	98.0	97.7	97.3	96.9	96.5	96.1
89	100.0	99.6	99.2	98.8	98.4	98.1	97.7	97.3	96.9	96.5	96.1
90	100.0	99.6	99.2	98.8	98.5	98.1	97.7	97.3	96.9	96.5	96.2
91	100.0	99.6	99.2	98.8	98.5	98.1	97.7	97.3	96.9	96.6	96.2
92	100.0	99.6	99.2	98.9	98.5	98.1	97.7	97.3	97.0	96.6	96.2
93	100.0	99.6	99.2	98.9	98.5	98.1	97.7	97.4	97.0	96.6	96.2
94	100.0	99.6	99.2	98.9	98.5	98.1	97.7	97.4	97.0	96.6	96.3
95	100.0	99.6	99.3	98.9	98.5	98.1	97.8	97.4	97.0	96.7	96.3
96	100.0	99.6	99.3	98.9	98.5	98.1	97.8	97.4	97.0	96.7	96.3
97	100.0	99.6	99.3	98.9	98.5	98.2	97.8	97.4	97.1	96.7	96.3
98	100.0	99.6	99.3	98.9	98.5	98.2	97.8	97.4	97.1	96.7	96.4
99	100.0	99.6	99.3	98.9	98.5	98.2	97.8	97.5	97.1	96.8	96.4
100	100.0	99.6	99.3	98.9	98.6	98.2	97.8	97.5	97.1	96.8	96.4

表 5a₂（续）

$t-t_w$ t	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0
15	88.9	87.9	87.0	86.0	85.0	84.0	83.1	82.1	81.1	80.2
16	89.2	88.3	87.3	86.4	85.4	84.5	83.5	82.6	81.7	80.7
17	89.5	88.6	87.7	86.7	85.8	84.9	84.0	83.1	82.2	81.3
18	89.8	88.9	88.0	87.1	86.2	85.3	84.4	83.5	82.6	81.8
19	90.1	89.2	88.3	87.4	86.6	85.7	84.8	84.0	83.1	82.2
20	90.3	89.5	88.6	87.7	86.9	86.0	85.2	84.4	83.5	82.7
21	90.6	89.7	88.9	88.0	87.2	86.4	85.6	84.7	83.9	83.1
22	90.8	90.0	89.1	88.3	87.5	86.7	85.9	85.1	84.3	83.5
23	91.0	90.2	89.4	88.6	87.8	87.0	86.2	85.4	84.7	83.9
24	91.2	90.4	89.6	88.8	88.1	87.3	86.5	85.8	85.0	84.2
25	91.4	90.6	89.8	89.1	88.3	87.6	86.8	86.1	85.3	84.6
26	91.5	90.8	90.0	89.3	88.6	87.8	87.1	86.3	85.6	84.9
27	91.7	91.0	90.2	89.5	88.8	88.1	87.3	86.6	85.9	85.2
28	91.9	91.1	90.4	89.7	89.0	88.3	87.6	86.9	86.2	85.5
29	92.0	91.3	90.6	89.9	89.2	88.5	87.8	87.1	86.4	85.7
30	92.2	91.5	90.8	90.1	89.4	88.7	88.0	87.4	86.7	86.0
31	92.3	91.6	90.9	90.3	89.6	88.9	88.2	87.6	86.9	86.3
32	92.4	91.8	91.1	90.4	89.8	89.1	88.4	87.8	87.1	86.5
33	92.6	91.9	91.2	90.6	89.9	89.3	88.6	88.0	87.4	86.7
34	92.7	92.0	91.4	90.7	90.1	89.5	88.8	88.2	87.6	86.9
35	92.8	92.2	91.5	90.9	90.3	89.6	89.0	88.4	87.8	87.1
36	92.9	92.3	91.7	91.0	90.4	89.8	89.2	88.6	87.9	87.3
37	93.0	92.4	91.8	91.2	90.6	89.9	89.3	88.7	88.1	87.5
38	93.1	92.5	91.9	91.3	90.7	90.1	89.5	88.9	88.3	87.7
39	93.2	92.6	92.0	91.4	90.8	90.2	89.6	89.0	88.5	87.9
40	93.3	92.7	92.1	91.5	90.9	90.4	89.8	89.2	88.6	88.0
41	93.4	92.8	92.2	91.6	91.1	90.5	89.9	89.3	88.8	88.2
42	93.5	92.9	92.3	91.8	91.2	90.6	90.1	89.5	88.9	88.4
43	93.6	93.0	92.4	91.9	91.3	90.7	90.2	89.6	89.1	88.5
44	93.7	93.1	92.5	92.0	91.4	90.9	90.3	89.8	89.2	88.7
45	93.7	93.2	92.6	92.1	91.5	91.0	90.4	89.9	89.3	88.8
46	93.8	93.3	92.7	92.2	91.6	91.1	90.5	90.0	89.5	88.9
47	93.9	93.3	92.8	92.3	91.7	91.2	90.7	90.1	89.6	89.1
48	94.0	93.4	92.9	92.3	91.8	91.3	90.8	90.2	89.7	89.2
49	94.0	93.5	93.0	92.4	91.9	91.4	90.9	90.3	89.8	89.3
50	94.1	93.6	93.0	92.5	92.0	91.5	91.0	90.5	89.9	89.4
51	94.2	93.6	93.1	92.6	92.1	91.6	91.1	90.6	90.1	89.5
52	94.2	93.7	93.2	92.7	92.2	91.7	91.2	90.7	90.2	89.7
53	94.3	93.8	93.3	92.8	92.3	91.8	91.3	90.8	90.3	89.8
54	94.3	93.8	93.3	92.8	92.3	91.8	91.3	90.8	90.4	89.9
55	94.4	93.9	93.4	92.9	92.4	91.9	91.4	90.9	90.5	90.0
56	94.4	94.0	93.5	93.0	92.5	92.0	91.5	91.0	90.6	90.1
57	94.5	94.0	93.5	93.0	92.6	92.1	91.6	91.1	90.6	90.2

表 5a₂（续）

$t-t_w$ t	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0
58	94.6	94.1	93.6	93.1	92.6	92.2	91.7	91.2	90.7	90.3
59	94.6	94.1	93.7	93.2	92.7	92.2	91.8	91.3	90.8	90.4
60	94.7	94.2	93.7	93.2	92.8	92.3	91.8	91.4	90.9	90.4
61	94.7	94.2	93.8	93.3	92.8	92.4	91.9	91.4	91.0	90.5
62	94.8	94.3	93.8	93.4	92.9	92.4	92.0	91.5	91.1	90.6
63	94.8	94.3	93.9	93.4	93.0	92.5	92.1	91.6	91.2	90.7
64	94.8	94.4	93.9	93.5	93.0	92.6	92.1	91.7	91.2	90.8
65	94.9	94.4	94.0	93.5	93.1	92.6	92.2	91.7	91.3	90.9
66	94.9	94.5	94.0	93.6	93.1	92.7	92.3	91.8	91.4	90.9
67	95.0	94.5	94.1	93.6	93.2	92.8	92.3	91.9	91.5	91.0
68	95.0	94.6	94.1	93.7	93.3	92.8	92.4	92.0	91.5	91.1
69	95.1	94.6	94.2	93.8	93.3	92.9	92.5	92.0	91.6	91.2
70	95.1	94.7	94.2	93.8	93.4	92.9	92.5	92.1	91.7	91.2
71	95.1	94.7	94.3	93.9	93.4	93.0	92.6	92.2	91.7	91.3
72	95.2	94.8	94.3	93.9	93.5	93.1	92.6	92.2	91.8	91.4
73	95.2	94.8	94.4	94.0	93.5	93.1	92.7	92.3	91.9	91.5
74	95.3	94.8	94.4	94.0	93.6	93.2	92.8	92.3	91.9	91.5
75	95.3	94.9	94.5	94.0	93.6	93.2	92.8	92.4	92.0	91.6
76	95.3	94.9	94.5	94.1	93.7	93.3	92.9	92.5	92.1	91.6
77	95.4	95.0	94.5	94.1	93.7	93.3	92.9	92.5	92.1	91.7
78	95.4	95.0	94.6	94.2	93.8	93.4	93.0	92.6	92.2	91.8
79	95.4	95.0	94.6	94.2	93.8	93.4	93.0	92.6	92.2	91.8
80	95.5	95.1	94.7	94.3	93.9	93.5	93.1	92.7	92.3	91.9
81	95.5	95.1	94.7	94.3	93.9	93.5	93.1	92.7	92.3	92.0
82	95.5	95.1	94.8	94.4	94.0	93.6	93.2	92.8	92.4	92.0
83	95.6	95.2	94.8	94.4	94.0	93.6	93.2	92.8	92.5	92.1
84	95.6	95.2	94.8	94.4	94.0	93.7	93.3	92.9	92.5	92.1
85	95.6	95.3	94.9	94.5	94.1	93.7	93.3	92.9	92.6	92.2
86	95.7	95.3	94.9	94.5	94.1	93.8	93.4	93.0	92.6	92.2
87	95.7	95.3	94.9	94.6	94.2	93.8	93.4	93.0	92.7	92.3
88	95.7	95.4	95.0	94.6	94.2	93.8	93.5	93.1	92.7	92.3
89	95.8	95.4	95.0	94.6	94.3	93.9	93.5	93.1	92.8	92.4
90	95.8	95.4	95.0	94.7	94.3	93.9	93.6	93.2	92.8	92.5
91	95.8	95.4	95.1	94.7	94.3	94.0	93.6	93.2	92.9	92.5
92	95.8	95.5	95.1	94.7	94.4	94.0	93.6	93.3	92.9	92.6
93	95.9	95.5	95.1	94.8	94.4	94.0	93.7	93.3	93.0	92.6
94	95.9	95.5	95.2	94.8	94.5	94.1	93.7	93.4	93.0	92.7
95	95.9	95.6	95.2	94.8	94.5	94.1	93.8	93.4	93.1	92.7
96	96.0	95.6	95.2	94.9	94.5	94.2	93.8	93.5	93.1	92.8
97	96.0	95.6	95.3	94.9	94.6	94.2	93.9	93.5	93.2	92.8
98	96.0	95.7	95.3	94.9	94.6	94.2	93.9	93.5	93.2	92.8
99	96.0	95.7	95.3	95.0	94.6	94.3	93.9	93.6	93.2	92.9
100	96.1	95.7	95.4	95.0	94.7	94.3	94.0	93.6	93.3	92.9

表 5a₂（续）

t \ t−tᵥᵥ	2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9	3.0
15	79.2	78.3	77.3	76.4	75.4	74.5	73.6	72.6	71.7	70.8
16	79.8	78.9	78.0	77.0	76.1	75.2	74.3	73.4	72.5	71.6
17	80.4	79.5	78.6	77.7	76.8	75.9	75.0	74.1	73.3	72.4
18	80.9	80.0	79.1	78.3	77.4	76.6	75.7	74.8	74.0	73.1
19	81.4	80.5	79.7	78.8	78.0	77.2	76.3	75.5	74.7	73.8
20	81.9	81.0	80.2	79.4	78.6	77.7	76.9	76.1	75.3	74.5
21	82.3	81.5	80.7	79.9	79.1	78.3	77.5	76.7	75.9	75.1
22	82.7	81.9	81.1	80.3	79.6	78.8	78.0	77.2	76.5	75.7
23	83.1	82.3	81.6	80.8	80.0	79.3	78.5	77.8	77.0	76.3
24	83.5	82.7	82.0	81.2	80.5	79.7	79.0	78.2	77.5	76.8
25	83.8	83.1	82.3	81.6	80.9	80.2	79.4	78.7	78.0	77.3
26	84.2	83.4	82.7	82.0	81.3	80.6	79.9	79.2	78.4	77.7
27	84.5	83.8	83.1	82.4	81.7	81.0	80.3	79.6	78.9	78.2
28	84.8	84.1	83.4	82.7	82.0	81.3	80.6	80.0	79.3	78.6
29	85.1	84.4	83.7	83.0	82.4	81.7	81.0	80.3	79.7	79.0
30	85.3	84.7	84.0	83.3	82.7	82.0	81.4	80.7	80.1	79.4
31	85.6	84.9	84.3	83.6	83.0	82.3	81.7	81.0	80.4	79.8
32	85.8	85.2	84.6	83.9	83.3	82.6	82.0	81.4	80.7	80.1
33	86.1	85.4	84.8	84.2	83.6	82.9	82.3	81.7	81.1	80.5
34	86.3	85.7	85.1	84.4	83.8	83.2	82.6	82.0	81.4	80.8
35	86.5	85.9	85.3	84.7	84.1	83.5	82.9	82.3	81.7	81.1
36	86.7	86.1	85.5	84.9	84.3	83.7	83.1	82.5	82.0	81.4
37	86.9	86.3	85.7	85.1	84.6	84.0	83.4	82.8	82.2	81.6
38	87.1	86.5	85.9	85.4	84.8	84.2	83.6	83.1	82.5	81.9
39	87.3	86.7	86.1	85.6	85.0	84.4	83.9	83.3	82.7	82.2
40	87.5	86.9	86.3	85.8	85.2	84.6	84.1	83.5	83.0	82.4
41	87.6	87.1	86.5	86.0	85.4	84.9	84.3	83.7	83.2	82.7
42	87.8	87.3	86.7	86.1	85.6	85.1	84.5	84.0	83.4	82.9
43	88.0	87.4	86.9	86.3	85.8	85.2	84.7	84.2	83.6	83.1
44	88.1	87.6	87.0	86.5	86.0	85.4	84.9	84.4	83.8	83.3
45	88.3	87.7	87.2	86.7	86.1	85.6	85.1	84.6	84.0	83.5
46	88.4	87.9	87.3	86.8	86.3	85.8	85.3	84.7	84.2	83.7
47	88.5	88.0	87.5	87.0	86.5	85.9	85.4	84.9	84.4	83.9
48	88.7	88.2	87.6	87.1	86.6	86.1	85.6	85.1	84.6	84.1
49	88.8	88.3	87.8	87.3	86.8	86.3	85.8	85.3	84.8	84.3
50	88.9	88.4	87.9	87.4	86.9	86.4	85.9	85.4	84.9	84.4
51	89.0	88.5	88.0	87.6	87.1	86.6	86.1	85.6	85.1	84.6
52	89.2	88.7	88.2	87.7	87.2	86.7	86.2	85.7	85.3	84.8
53	89.3	88.8	88.3	87.8	87.3	86.8	86.4	85.9	85.4	84.9
54	89.4	88.9	88.4	87.9	87.5	87.0	86.5	86.0	85.6	85.1
55	89.5	89.0	88.5	88.1	87.6	87.1	86.6	86.2	85.7	85.2
56	89.6	89.1	88.6	88.2	87.7	87.2	86.8	86.3	85.8	85.4
57	89.7	89.2	88.8	88.3	87.8	87.4	86.9	86.4	86.0	85.5

表 5a₂（续）

$t-t_w$ / t	2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9	3.0
58	89.8	89.3	88.9	88.4	87.9	87.5	87.0	86.6	86.1	85.7
59	89.9	89.4	89.0	88.5	88.1	87.6	87.1	86.7	86.2	85.8
60	90.0	89.5	89.1	88.6	88.2	87.7	87.3	86.8	86.4	85.9
61	90.1	89.6	89.2	88.7	88.3	87.8	87.4	86.9	86.5	86.1
62	90.2	89.7	89.3	88.8	88.4	87.9	87.5	87.1	86.6	86.2
63	90.3	89.8	89.4	88.9	88.5	88.0	87.6	87.2	86.7	86.3
64	90.3	89.9	89.5	89.0	88.6	88.1	87.7	87.3	86.9	86.4
65	90.4	90.0	89.6	89.1	88.7	88.3	87.8	87.4	87.0	86.5
66	90.5	90.1	89.6	89.2	88.8	88.4	87.9	87.5	87.1	86.7
67	90.6	90.2	89.7	89.3	88.9	88.5	88.0	87.6	87.2	86.8
68	90.7	90.2	89.8	89.4	89.0	88.5	88.1	87.7	87.3	86.9
69	90.7	90.3	89.9	89.5	89.1	88.6	88.2	87.8	87.4	87.0
70	90.8	90.4	90.0	89.6	89.1	88.7	88.3	87.9	87.5	87.1
71	90.9	90.5	90.1	89.6	89.2	88.8	88.4	88.0	87.6	87.2
72	91.0	90.6	90.1	89.7	89.3	88.9	88.5	88.1	87.7	87.3
73	91.0	90.6	90.2	89.8	89.4	89.0	88.6	88.2	87.8	87.4
74	91.1	90.7	90.3	89.9	89.5	89.1	88.7	88.3	87.9	87.5
75	91.2	90.8	90.4	90.0	89.6	89.2	88.8	88.4	88.0	87.6
76	91.2	90.8	90.4	90.0	89.6	89.3	88.9	88.5	88.1	87.7
77	91.3	90.9	90.5	90.1	89.7	89.3	88.9	88.6	88.2	87.8
78	91.4	91.0	90.6	90.2	89.8	89.4	89.0	88.6	88.2	87.9
79	91.4	91.0	90.7	90.3	89.9	89.5	89.1	88.7	88.3	88.0
80	91.5	91.1	90.7	90.3	90.0	89.6	89.2	88.8	88.4	88.0
81	91.6	91.2	90.8	90.4	90.0	89.6	89.3	88.9	88.5	88.1
82	91.6	91.2	90.9	90.5	90.1	89.7	89.3	89.0	88.6	88.2
83	91.7	91.3	90.9	90.5	90.2	89.8	89.4	89.0	88.7	88.3
84	91.7	91.4	91.0	90.6	90.2	89.9	89.5	89.1	88.8	88.4
85	91.8	91.4	91.1	90.7	90.3	89.9	89.6	89.2	88.8	88.5
86	91.9	91.5	91.1	90.7	90.4	90.0	89.6	89.3	88.9	88.5
87	91.9	91.6	91.2	90.8	90.4	90.1	89.7	89.3	89.0	88.6
88	92.0	91.6	91.2	90.9	90.5	90.1	89.8	89.4	89.1	88.7
89	92.0	91.7	91.3	90.9	90.6	90.2	89.9	89.5	89.1	88.8
90	92.1	91.7	91.4	91.0	90.6	90.3	89.9	89.6	89.2	88.9
91	92.1	91.8	91.4	91.1	90.7	90.3	90.0	89.6	89.3	88.9
92	92.2	91.8	91.5	91.1	90.8	90.4	90.1	89.7	89.4	89.0
93	92.2	91.9	91.5	91.2	90.8	90.5	90.1	89.8	89.4	89.1
94	92.3	91.9	91.6	91.2	90.9	90.5	90.2	89.8	89.5	89.1
95	92.4	92.0	91.6	91.3	90.9	90.6	90.3	89.9	89.6	89.2
96	92.4	92.1	91.7	91.4	91.0	90.7	90.3	90.0	89.6	89.3
97	92.5	92.1	91.8	91.4	91.1	90.7	90.4	90.0	89.7	89.4
98	92.5	92.2	91.8	91.5	91.1	90.8	90.4	90.1	89.8	89.4
99	92.5	92.2	91.9	91.5	91.2	90.8	90.5	90.2	89.8	89.5
100	92.6	92.3	91.9	91.6	91.2	90.9	90.6	90.2	89.9	89.6

表 5a₂（续）

$t-t_w$ / t	3.1	3.2	3.3	3.4	3.5	3.6	3.7	3.8	3.9	4.0
15	69.8	68.9	68.0	67.1	66.2	65.3	64.4	63.5	62.6	61.7
16	70.7	69.8	68.9	68.0	67.2	66.3	65.4	64.5	63.6	62.8
17	71.5	70.7	69.8	68.9	68.1	67.2	66.4	65.5	64.7	63.8
18	72.3	71.4	70.6	69.8	68.9	68.1	67.3	66.4	65.6	64.8
19	73.0	72.2	71.4	70.6	69.7	68.9	68.1	67.3	66.5	65.7
20	73.7	72.9	72.1	71.3	70.5	69.7	68.9	68.1	67.4	66.6
21	74.3	73.6	72.8	72.0	71.2	70.5	69.7	68.9	68.2	67.4
22	74.9	74.2	73.4	72.7	71.9	71.2	70.4	69.7	68.9	68.2
23	75.5	74.8	74.0	73.3	72.6	71.8	71.1	70.4	69.6	68.9
24	76.0	75.3	74.6	73.9	73.2	72.4	71.7	71.0	70.3	69.6
25	76.6	75.9	75.1	74.4	73.7	73.0	72.3	71.6	71.0	70.3
26	77.0	76.4	75.7	75.0	74.3	73.6	72.9	72.2	71.6	70.9
27	77.5	76.8	76.1	75.5	74.8	74.1	73.5	72.8	72.1	71.5
28	77.9	77.3	76.6	76.0	75.3	74.6	74.0	73.3	72.7	72.0
29	78.4	77.7	77.1	76.4	75.8	75.1	74.5	73.8	73.2	72.6
30	78.8	78.1	77.5	76.8	76.2	75.6	74.9	74.3	73.7	73.1
31	79.1	78.5	77.9	77.3	76.6	76.0	75.4	74.8	74.2	73.5
32	79.5	78.9	78.3	77.6	77.0	76.4	75.8	75.2	74.6	74.0
33	79.8	79.2	78.6	78.0	77.4	76.8	76.2	75.6	75.0	74.4
34	80.2	79.6	79.0	78.4	77.8	77.2	76.6	76.0	75.4	74.9
35	80.5	79.9	79.3	78.7	78.1	77.6	77.0	76.4	75.8	75.3
36	80.8	80.2	79.6	79.0	78.5	77.9	77.3	76.8	76.2	75.6
37	81.1	80.5	79.9	79.4	78.8	78.2	77.7	77.1	76.6	76.0
38	81.3	80.8	80.2	79.7	79.1	78.5	78.0	77.4	76.9	76.3
39	81.6	81.1	80.5	80.0	79.4	78.9	78.3	77.8	77.2	76.7
40	81.9	81.3	80.8	80.2	79.7	79.1	78.6	78.1	77.5	77.0
41	82.1	81.6	81.0	80.5	80.0	79.4	78.9	78.4	77.8	77.3
42	82.3	81.8	81.3	80.8	80.2	79.7	79.2	78.7	78.1	77.6
43	82.6	82.0	81.5	81.0	80.5	80.0	79.4	78.9	78.4	77.9
44	82.8	82.3	81.8	81.2	80.7	80.2	79.7	79.2	78.7	78.2
45	83.0	82.5	82.0	81.5	81.0	80.5	79.9	79.4	78.9	78.4
46	83.2	82.7	82.2	81.7	81.2	80.7	80.2	79.7	79.2	78.7
47	83.4	82.9	82.4	81.9	81.4	80.9	80.4	79.9	79.4	79.0
48	83.6	83.1	82.6	82.1	81.6	81.1	80.6	80.2	79.7	79.2
49	83.8	83.3	82.8	82.3	81.8	81.3	80.9	80.4	79.9	79.4
50	84.0	83.5	83.0	82.5	82.0	81.5	81.1	80.6	80.1	79.7
51	84.1	83.7	83.2	82.7	82.2	81.7	81.3	80.8	80.3	79.9
52	84.3	83.8	83.3	82.9	82.4	81.9	81.5	81.0	80.5	80.1
53	84.5	84.0	83.5	83.1	82.6	82.1	81.7	81.2	80.7	80.3
54	84.6	84.2	83.7	83.2	82.8	82.3	81.8	81.4	80.9	80.5
55	84.8	84.3	83.9	83.4	82.9	82.5	82.0	81.6	81.1	80.7
56	84.9	84.5	84.0	83.6	83.1	82.7	82.2	81.8	81.3	80.9
57	85.1	84.6	84.2	83.7	83.3	82.8	82.4	81.9	81.5	81.1

表 5a$_2$（续）

t＼$t-t_w$	3.1	3.2	3.3	3.4	3.5	3.6	3.7	3.8	3.9	4.0
58	85.2	84.8	84.3	83.9	83.4	83.0	82.5	82.1	81.7	81.2
59	85.4	84.9	84.5	84.0	83.6	83.1	82.7	82.3	81.8	81.4
60	85.5	85.0	84.6	84.2	83.7	83.3	82.9	82.4	82.0	81.6
61	85.6	85.2	84.7	84.3	83.9	83.4	83.0	82.6	82.2	81.7
62	85.7	85.3	84.9	84.5	84.0	83.6	83.2	82.7	82.3	81.9
63	85.9	85.4	85.0	84.6	84.2	83.7	83.3	82.9	82.5	82.1
64	86.0	85.6	85.1	84.7	84.3	83.9	83.5	83.0	82.6	82.2
65	86.1	85.7	85.3	84.9	84.4	84.0	83.6	83.2	82.8	82.4
66	86.2	85.8	85.4	85.0	84.6	84.2	83.7	83.3	82.9	82.5
67	86.3	85.9	85.5	85.1	84.7	84.3	83.9	83.5	83.1	82.7
68	86.5	86.1	85.6	85.2	84.8	84.4	84.0	83.6	83.2	82.8
69	86.6	86.2	85.8	85.4	84.9	84.5	84.1	83.7	83.3	82.9
70	86.7	86.3	85.9	85.5	85.1	84.7	84.3	83.9	83.5	83.1
71	86.8	86.4	86.0	85.6	85.2	84.8	84.4	84.0	83.6	83.2
72	86.9	86.5	86.1	85.7	85.3	84.9	84.5	84.1	83.7	83.3
73	87.0	86.6	86.2	85.8	85.4	85.0	84.6	84.2	83.9	83.5
74	87.1	86.7	86.3	85.9	85.5	85.1	84.8	84.4	84.0	83.6
75	87.2	86.8	86.4	86.0	85.6	85.3	84.9	84.5	84.1	83.7
76	87.3	86.9	86.5	86.1	85.7	85.4	85.0	84.6	84.2	83.8
77	87.4	87.0	86.6	86.2	85.9	85.5	85.1	84.7	84.3	84.0
78	87.5	87.1	86.7	86.3	86.0	85.6	85.2	84.8	84.5	84.1
79	87.6	87.2	86.8	86.4	86.1	85.7	85.3	84.9	84.6	84.2
80	87.7	87.3	86.9	86.5	86.2	85.8	85.4	85.1	84.7	84.3
81	87.8	87.4	87.0	86.6	86.3	85.9	85.5	85.2	84.8	84.4
82	87.8	87.5	87.1	86.7	86.4	86.0	85.6	85.3	84.9	84.5
83	87.9	87.6	87.2	86.8	86.5	86.1	85.7	85.4	85.0	84.6
84	88.0	87.6	87.3	86.9	86.6	86.2	85.8	85.5	85.1	84.8
85	88.1	87.7	87.4	87.0	86.6	86.3	85.9	85.6	85.2	84.9
86	88.2	87.8	87.5	87.1	86.7	86.4	86.0	85.7	85.3	85.0
87	88.3	87.9	87.5	87.2	86.8	86.5	86.1	85.8	85.4	85.1
88	88.3	88.0	87.6	87.3	86.9	86.6	86.2	85.9	85.5	85.2
89	88.4	88.1	87.7	87.4	87.0	86.7	86.3	86.0	85.6	85.3
90	88.5	88.1	87.8	87.4	87.1	86.7	86.4	86.1	85.7	85.4
91	88.6	88.2	87.9	87.5	87.2	86.8	86.5	86.1	85.8	85.5
92	88.7	88.3	88.0	87.6	87.3	86.9	86.6	86.2	85.9	85.6
93	88.7	88.4	88.0	87.7	87.4	87.0	86.7	86.3	86.0	85.7
94	88.8	88.5	88.1	87.8	87.4	87.1	86.8	86.4	86.1	85.7
95	88.9	88.5	88.2	87.9	87.5	87.2	86.8	86.5	86.2	85.8
96	88.9	88.6	88.3	87.9	87.6	87.3	86.9	86.6	86.3	85.9
97	89.0	88.7	88.3	88.0	87.7	87.3	87.0	86.7	86.3	86.0
98	89.1	88.8	88.4	88.1	87.8	87.4	87.1	86.8	86.4	86.1
99	89.2	88.8	88.5	88.2	87.8	87.5	87.2	86.8	86.5	86.2
100	89.2	88.9	88.6	88.2	87.9	87.6	87.3	86.9	86.6	86.3

表 5a₂（续）

$t - t_w$ t	4.1	4.2	4.3	4.4	4.5	4.6	4.7	4.8	4.9	5.0
15	60.8	59.9	59.0	58.1	57.2	56.4	55.5	54.6	53.7	52.9
16	61.9	61.0	60.2	59.3	58.5	57.6	56.8	55.9	55.1	54.2
17	63.0	62.1	61.3	60.5	59.6	58.8	58.0	57.2	56.4	55.5
18	64.0	63.2	62.4	61.5	60.7	59.9	59.1	58.3	57.5	56.8
19	64.9	64.1	63.3	62.6	61.8	61.0	60.2	59.4	58.7	57.9
20	65.8	65.0	64.3	63.5	62.7	62.0	61.2	60.5	59.7	59.0
21	66.7	65.9	65.2	64.4	63.7	62.9	62.2	61.4	60.7	60.0
22	67.4	66.7	66.0	65.3	64.5	63.8	63.1	62.4	61.7	60.9
23	68.2	67.5	66.8	66.1	65.3	64.6	63.9	63.2	62.5	61.8
24	68.9	68.2	67.5	66.8	66.1	65.4	64.7	64.1	63.4	62.7
25	69.6	68.9	68.2	67.5	66.9	66.2	65.5	64.8	64.2	63.5
26	70.2	69.5	68.9	68.2	67.5	66.9	66.2	65.6	64.9	64.3
27	70.8	70.2	69.5	68.8	68.2	67.6	66.9	66.3	65.6	65.0
28	71.4	70.7	70.1	69.5	68.8	68.2	67.6	66.9	66.3	65.7
29	71.9	71.3	70.7	70.0	69.4	68.8	68.2	67.6	66.9	66.3
30	72.4	71.8	71.2	70.6	70.0	69.4	68.8	68.2	67.6	67.0
31	72.9	72.3	71.7	71.1	70.5	69.9	69.3	68.7	68.1	67.5
32	73.4	72.8	72.2	71.6	71.0	70.4	69.9	69.3	68.7	68.1
33	73.8	73.3	72.7	72.1	71.5	70.9	70.4	69.8	69.2	68.6
34	74.3	73.7	73.1	72.5	72.0	71.4	70.8	70.3	69.7	69.2
35	74.7	74.1	73.5	73.0	72.4	71.9	71.3	70.8	70.2	69.7
36	75.1	74.5	74.0	73.4	72.8	72.3	71.8	71.2	70.7	70.1
37	75.4	74.9	74.3	73.8	73.3	72.7	72.2	71.6	71.1	70.6
38	75.8	75.3	74.7	74.2	73.6	73.1	72.6	72.1	71.5	71.0
39	76.1	75.6	75.1	74.5	74.0	73.5	73.0	72.4	71.9	71.4
40	76.5	75.9	75.4	74.9	74.4	73.9	73.3	72.8	72.3	71.8
41	76.8	76.3	75.8	75.2	74.7	74.2	73.7	73.2	72.7	72.2
42	77.1	76.6	76.1	75.6	75.1	74.6	74.0	73.5	73.0	72.5
43	77.4	76.9	76.4	75.9	75.4	74.9	74.4	73.9	73.4	72.9
44	77.7	77.2	76.7	76.2	75.7	75.2	74.7	74.2	73.7	73.2
45	77.9	77.5	77.0	76.5	76.0	75.5	75.0	74.5	74.0	73.6
46	78.2	77.7	77.2	76.8	76.3	75.8	75.3	74.8	74.4	73.9
47	78.5	78.0	77.5	77.0	76.5	76.1	75.6	75.1	74.7	74.2
48	78.7	78.2	77.8	77.3	76.8	76.3	75.9	75.4	74.9	74.5
49	79.0	78.5	78.0	77.5	77.1	76.6	76.1	75.7	75.2	74.8
50	79.2	78.7	78.2	77.8	77.3	76.9	76.4	75.9	75.5	75.0
51	79.4	78.9	78.5	78.0	77.6	77.1	76.7	76.2	75.8	75.3
52	79.6	79.2	78.7	78.3	77.8	77.3	76.9	76.5	76.0	75.6
53	79.8	79.4	78.9	78.5	78.0	77.6	77.1	76.7	76.3	75.8
54	80.0	79.6	79.1	78.7	78.3	77.8	77.4	76.9	76.5	76.1
55	80.2	79.8	79.3	78.9	78.5	78.0	77.6	77.2	76.7	76.3
56	80.4	80.0	79.5	79.1	78.7	78.2	77.8	77.4	77.0	76.5
57	80.6	80.2	79.7	79.3	78.9	78.5	78.0	77.6	77.2	76.7

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表 5a₂（续）

$t - t_w$ / t	4.1	4.2	4.3	4.4	4.5	4.6	4.7	4.8	4.9	5.0
58	80.8	80.4	79.9	79.5	79.1	78.7	78.2	77.8	77.4	77.0
59	81.0	80.5	80.1	79.7	79.3	78.9	78.4	78.0	77.6	77.2
60	81.2	80.7	80.3	79.9	79.5	79.0	78.6	78.2	77.8	77.4
61	81.3	80.9	80.5	80.1	79.6	79.2	78.8	78.4	78.0	77.6
62	81.5	81.1	80.7	80.2	79.8	79.4	79.0	78.6	78.2	77.8
63	81.6	81.2	80.8	80.4	80.0	79.6	79.2	78.8	78.4	78.0
64	81.8	81.4	81.0	80.6	80.2	79.8	79.4	79.0	78.6	78.2
65	82.0	81.6	81.1	80.7	80.3	79.9	79.5	79.1	78.7	78.3
66	82.1	81.7	81.3	80.9	80.5	80.1	79.7	79.3	78.9	78.5
67	82.3	81.9	81.5	81.1	80.7	80.3	79.9	79.5	79.1	78.7
68	82.4	82.0	81.6	81.2	80.8	80.4	80.0	79.7	79.3	78.9
69	82.5	82.2	81.8	81.4	81.0	80.6	80.2	79.8	79.4	79.0
70	82.7	82.3	81.9	81.5	81.1	80.7	80.4	80.0	79.6	79.2
71	82.8	82.4	82.0	81.7	81.3	80.9	80.5	80.1	79.8	79.4
72	83.0	82.6	82.2	81.8	81.4	81.0	80.7	80.3	79.9	79.5
73	83.1	82.7	82.3	81.9	81.6	81.2	80.8	80.4	80.1	79.7
74	83.2	82.8	82.5	82.1	81.7	81.3	81.0	80.6	80.2	79.8
75	83.3	83.0	82.6	82.2	81.8	81.5	81.1	80.7	80.4	80.0
76	83.5	83.1	82.7	82.3	82.0	81.6	81.2	80.9	80.5	80.1
77	83.6	83.2	82.8	82.5	82.1	81.7	81.4	81.0	80.7	80.3
78	83.7	83.3	83.0	82.6	82.2	81.9	81.5	81.2	80.8	80.4
79	83.8	83.5	83.1	82.7	82.4	82.0	81.6	81.3	80.9	80.6
80	83.9	83.6	83.2	82.9	82.5	82.1	81.8	81.4	81.1	80.7
81	84.1	83.7	83.3	83.0	82.6	82.3	81.9	81.6	81.2	80.8
82	84.2	83.8	83.5	83.1	82.7	82.4	82.0	81.7	81.3	81.0
83	84.3	83.9	83.6	83.2	82.9	82.5	82.2	81.8	81.5	81.1
84	84.4	84.0	83.7	83.3	83.0	82.6	82.3	81.9	81.6	81.2
85	84.5	84.2	83.8	83.5	83.1	82.8	82.4	82.1	81.7	81.4
86	84.6	84.3	83.9	83.6	83.2	82.9	82.5	82.2	81.8	81.5
87	84.7	84.4	84.0	83.7	83.3	83.0	82.6	82.3	82.0	81.6
88	84.8	84.5	84.1	83.8	83.4	83.1	82.8	82.4	82.1	81.7
89	84.9	84.6	84.2	83.9	83.6	83.2	82.9	82.5	82.2	81.9
90	85.0	84.7	84.3	84.0	83.7	83.3	83.0	82.7	82.3	82.0
91	85.1	84.8	84.4	84.1	83.8	83.4	83.1	82.8	82.4	82.1
92	85.2	84.9	84.5	84.2	83.9	83.5	83.2	82.9	82.5	82.2
93	85.3	85.0	84.6	84.3	84.0	83.7	83.3	83.0	82.7	82.3
94	85.4	85.1	84.7	84.4	84.1	83.8	83.4	83.1	82.8	82.4
95	85.5	85.2	84.8	84.5	84.2	83.9	83.5	83.2	82.9	82.6
96	85.6	85.3	84.9	84.6	84.3	84.0	83.6	83.3	83.0	82.7
97	85.7	85.4	85.0	84.7	84.4	84.1	83.7	83.4	83.1	82.8
98	85.8	85.5	85.1	84.8	84.5	84.2	83.8	83.5	83.2	82.9
99	85.9	85.5	85.2	84.9	84.6	84.3	83.9	83.6	83.3	83.0
100	86.0	85.6	85.3	85.0	84.7	84.4	84.0	83.7	83.4	83.1

表 5a₂（续）

t\t−t_w	5.2	5.4	5.6	5.8	6.0	6.2	6.4	6.6	6.8	7.0
15	51.2	49.4	47.7	46.0	44.4	42.7	41.0	39.4	37.8	36.1
16	52.6	50.9	49.3	47.6	46.0	44.4	42.8	41.2	39.6	38.0
17	53.9	52.3	50.7	49.1	47.5	46.0	44.4	42.9	41.3	39.8
18	55.2	53.6	52.1	50.5	49.0	47.5	45.9	44.4	42.9	41.5
19	56.4	54.8	53.3	51.8	50.3	48.9	47.4	45.9	44.5	43.0
20	57.5	56.0	54.5	53.1	51.6	50.2	48.7	47.3	45.9	44.5
21	58.5	57.1	55.7	54.2	52.8	51.4	50.0	48.6	47.3	45.9
22	59.5	58.1	56.7	55.3	54.0	52.6	51.2	49.9	48.5	47.2
23	60.5	59.1	57.7	56.4	55.0	53.7	52.4	51.1	49.7	48.5
24	61.3	60.0	58.7	57.4	56.0	54.7	53.4	52.2	50.9	49.6
25	62.2	60.9	59.6	58.3	57.0	55.7	54.5	53.2	52.0	50.7
26	63.0	61.7	60.4	59.2	57.9	56.7	55.4	54.2	53.0	51.8
27	63.7	62.5	61.2	60.0	58.8	57.5	56.3	55.1	53.9	52.8
28	64.4	63.2	62.0	60.8	59.6	58.4	57.2	56.0	54.9	53.7
29	65.1	63.9	62.7	61.5	60.4	59.2	58.0	56.9	55.7	54.6
30	65.8	64.6	63.4	62.2	61.1	59.9	58.8	57.7	56.5	55.4
31	66.4	65.2	64.1	62.9	61.8	60.7	59.5	58.4	57.3	56.2
32	67.0	65.8	64.7	63.6	62.5	61.3	60.2	59.2	58.1	57.0
33	67.5	66.4	65.3	64.2	63.1	62.0	60.9	59.8	58.8	57.7
34	68.1	66.9	65.9	64.8	63.7	62.6	61.6	60.5	59.5	58.4
35	68.6	67.5	66.4	65.3	64.3	63.2	62.2	61.1	60.1	59.1
36	69.0	68.0	66.9	65.9	64.8	63.8	62.8	61.7	60.7	59.7
37	69.5	68.5	67.4	66.4	65.3	64.3	63.3	62.3	61.3	60.3
38	70.0	68.9	67.9	66.9	65.9	64.9	63.9	62.9	61.9	60.9
39	70.4	69.4	68.3	67.3	66.3	65.4	64.4	63.4	62.4	61.5
40	70.8	69.8	68.8	67.8	66.8	65.8	64.9	63.9	62.9	62.0
41	71.2	70.2	69.2	68.2	67.3	66.3	65.3	64.4	63.4	62.5
42	71.6	70.6	69.6	68.6	67.7	66.7	65.8	64.9	63.9	63.0
43	71.9	71.0	70.0	69.0	68.1	67.2	66.2	65.3	64.4	63.5
44	72.3	71.3	70.4	69.4	68.5	67.6	66.6	65.7	64.8	63.9
45	72.6	71.7	70.7	69.8	68.9	68.0	67.1	66.1	65.3	64.4
46	72.9	72.0	71.1	70.2	69.2	68.3	67.4	66.6	65.7	64.8
47	73.3	72.3	71.4	70.5	69.6	68.7	67.8	66.9	66.1	65.2
48	73.6	72.6	71.7	70.8	69.9	69.1	68.2	67.3	66.4	65.6
49	73.9	72.9	72.1	71.2	70.3	69.4	68.5	67.7	66.8	66.0
50	74.1	73.2	72.4	71.5	70.6	69.7	68.9	68.0	67.2	66.3
51	74.4	73.5	72.7	71.8	70.9	70.1	69.2	68.4	67.5	66.7
52	74.7	73.8	72.9	72.1	71.2	70.4	69.5	68.7	67.9	67.0
53	74.9	74.1	73.2	72.4	71.5	70.7	69.8	69.0	68.2	67.4
54	75.2	74.3	73.5	72.6	71.8	71.0	70.1	69.3	68.5	67.7
55	75.4	74.6	73.7	72.9	72.1	71.2	70.4	69.6	68.8	68.0
56	75.7	74.8	74.0	73.2	72.3	71.5	70.7	69.9	69.1	68.3
57	75.9	75.1	74.2	73.4	72.6	71.8	71.0	70.2	69.4	68.6

表 5a₂（续）

t ＼ $t-t_w$	5.2	5.4	5.6	5.8	6.0	6.2	6.4	6.6	6.8	7.0
58	76.1	75.3	74.5	73.7	72.9	72.1	71.3	70.5	69.7	68.9
59	76.4	75.5	74.7	73.9	73.1	72.3	71.5	70.7	70.0	69.2
60	76.6	75.8	74.9	74.1	73.3	72.6	71.8	71.0	70.2	69.5
61	76.8	76.0	75.2	74.4	73.6	72.8	72.0	71.3	70.5	69.7
62	77.0	76.2	75.4	74.6	73.8	73.0	72.3	71.5	70.7	70.0
63	77.2	76.4	75.6	74.8	74.0	73.3	72.5	71.7	71.0	70.2
64	77.4	76.6	75.8	75.0	74.3	73.5	72.7	72.0	71.2	70.5
65	77.6	76.8	76.0	75.2	74.5	73.7	73.0	72.2	71.5	70.7
66	77.7	77.0	76.2	75.4	74.7	73.9	73.2	72.4	71.7	71.0
67	77.9	77.2	76.4	75.6	74.9	74.1	73.4	72.7	71.9	71.2
68	78.1	77.3	76.6	75.8	75.1	74.4	73.6	72.9	72.2	71.4
69	78.3	77.5	76.8	76.0	75.3	74.6	73.8	73.1	72.4	71.7
70	78.5	77.7	77.0	76.2	75.5	74.8	74.0	73.3	72.6	71.9
71	78.6	77.9	77.1	76.4	75.7	74.9	74.2	73.5	72.8	72.1
72	78.8	78.0	77.3	76.6	75.9	75.1	74.4	73.7	73.0	72.3
73	78.9	78.2	77.5	76.8	76.0	75.3	74.6	73.9	73.2	72.5
74	79.1	78.4	77.7	76.9	76.2	75.5	74.8	74.1	73.4	72.7
75	79.3	78.5	77.8	77.1	76.4	75.7	75.0	74.3	73.6	72.9
76	79.4	78.7	78.0	77.3	76.6	75.9	75.2	74.5	73.8	73.1
77	79.6	78.9	78.1	77.4	76.7	76.0	75.3	74.7	74.0	73.3
78	79.7	79.0	78.3	77.6	76.9	76.2	75.5	74.8	74.2	73.5
79	79.9	79.2	78.5	77.8	77.1	76.4	75.7	75.0	74.3	73.7
80	80.0	79.3	78.6	77.9	77.2	76.5	75.9	75.2	74.5	73.9
81	80.1	79.4	78.8	78.1	77.4	76.7	76.0	75.4	74.7	74.0
82	80.3	79.6	78.9	78.2	77.5	76.9	76.2	75.5	74.9	74.2
83	80.4	79.7	79.0	78.4	77.7	77.0	76.4	75.7	75.0	74.4
84	80.6	79.9	79.2	78.5	77.8	77.2	76.5	75.9	75.2	74.6
85	80.7	80.0	79.3	78.7	78.0	77.3	76.7	76.0	75.4	74.7
86	80.8	80.1	79.5	78.8	78.1	77.5	76.8	76.2	75.5	74.9
87	80.9	80.3	79.6	78.9	78.3	77.6	77.0	76.3	75.7	75.1
88	81.1	80.4	79.7	79.1	78.4	77.8	77.1	76.5	75.9	75.2
89	81.2	80.5	79.9	79.2	78.6	77.9	77.3	76.6	76.0	75.4
90	81.3	80.7	80.0	79.4	78.7	78.1	77.4	76.8	76.2	75.5
91	81.4	80.8	80.1	79.5	78.9	78.2	77.6	76.9	76.3	75.7
92	81.6	80.9	80.3	79.6	79.0	78.4	77.7	77.1	76.5	75.9
93	81.7	81.0	80.4	79.8	79.1	78.5	77.9	77.2	76.6	76.0
94	81.8	81.2	80.5	79.9	79.3	78.6	78.0	77.4	76.8	76.2
95	81.9	81.3	80.6	80.0	79.4	78.8	78.1	77.5	76.9	76.3
96	82.0	81.4	80.8	80.1	79.5	78.9	78.3	77.7	77.1	76.4
97	82.1	81.5	80.9	80.3	79.6	79.0	78.4	77.8	77.2	76.6
98	82.3	81.6	81.0	80.4	79.8	79.2	78.5	77.9	77.3	76.7
99	82.4	81.7	81.1	80.5	79.9	79.3	78.7	78.1	77.5	76.9
100	82.5	81.9	81.2	80.6	80.0	79.4	78.8	78.2	77.6	77.0

表 5a₂（续）

$t-t_w$ t	7.2	7.4	7.6	7.8	8.0	8.2	8.4	8.6	8.8	9.0
15	34.5	32.9	31.3	29.7	28.1	26.6	25.0	23.5	21.9	20.4
16	36.5	34.9	33.4	31.8	30.3	28.8	27.3	25.8	24.3	22.8
17	38.3	36.8	35.3	33.8	32.3	30.8	29.4	27.9	26.5	25.1
18	40.0	38.5	37.1	35.6	34.2	32.8	31.4	30.0	28.6	27.2
19	41.6	40.2	38.8	37.4	36.0	34.6	33.2	31.9	30.5	29.2
20	43.1	41.7	40.4	39.0	37.7	36.3	35.0	33.6	32.3	31.0
21	44.6	43.2	41.9	40.5	39.2	37.9	36.6	35.3	34.0	32.8
22	45.9	44.6	43.3	42.0	40.7	39.4	38.2	36.9	35.7	34.4
23	47.2	45.9	44.6	43.4	42.1	40.9	39.6	38.4	37.2	36.0
24	48.4	47.1	45.9	44.7	43.4	42.2	41.0	39.8	38.6	37.5
25	49.5	48.3	47.1	45.9	44.7	43.5	42.3	41.2	40.0	38.9
26	50.6	49.4	48.2	47.0	45.9	44.7	43.6	42.4	41.3	40.2
27	51.6	50.4	49.3	48.1	47.0	45.8	44.7	43.6	42.5	41.4
28	52.5	51.4	50.3	49.2	48.0	46.9	45.8	44.7	43.7	42.6
29	53.5	52.3	51.2	50.1	49.0	48.0	46.9	45.8	44.8	43.7
30	54.3	53.2	52.1	51.1	50.0	48.9	47.9	46.8	45.8	44.8
31	55.2	54.1	53.0	52.0	50.9	49.9	48.8	47.8	46.8	45.8
32	55.9	54.9	53.8	52.8	51.8	50.7	49.7	48.7	47.7	46.7
33	56.7	55.7	54.6	53.6	52.6	51.6	50.6	49.6	48.6	47.6
34	57.4	56.4	55.4	54.4	53.4	52.4	51.4	50.4	49.5	48.5
35	58.1	57.1	56.1	55.1	54.1	53.1	52.2	51.2	50.3	49.3
36	58.7	57.7	56.8	55.8	54.8	53.9	52.9	52.0	51.0	50.1
37	59.4	58.4	57.4	56.5	55.5	54.6	53.6	52.7	51.8	50.9
38	59.9	59.0	58.0	57.1	56.2	55.2	54.3	53.4	52.5	51.6
39	60.5	59.6	58.6	57.7	56.8	55.9	55.0	54.1	53.2	52.3
40	61.1	60.1	59.2	58.3	57.4	56.5	55.6	54.7	53.8	52.9
41	61.6	60.7	59.8	58.9	58.0	57.1	56.2	55.3	54.4	53.6
42	62.1	61.2	60.3	59.4	58.5	57.6	56.8	55.9	55.0	54.2
43	62.6	61.7	60.8	59.9	59.0	58.2	57.3	56.5	55.6	54.8
44	63.0	62.2	61.3	60.4	59.5	58.7	57.8	57.0	56.2	55.3
45	63.5	62.6	61.7	60.9	60.0	59.2	58.3	57.5	56.7	55.9
46	63.9	63.1	62.2	61.3	60.5	59.7	58.8	58.0	57.2	56.4
47	64.3	63.5	62.6	61.8	61.0	60.1	59.3	58.5	57.7	56.9
48	64.7	63.9	63.1	62.2	61.4	60.6	59.8	59.0	58.2	57.4
49	65.1	64.3	63.5	62.6	61.8	61.0	60.2	59.4	58.6	57.8
50	65.5	64.7	63.9	63.0	62.2	61.4	60.6	59.9	59.1	58.3
51	65.9	65.1	64.2	63.4	62.6	61.8	61.1	60.3	59.5	58.7
52	66.2	65.4	64.6	63.8	63.0	62.2	61.5	60.7	59.9	59.2
53	66.6	65.8	65.0	64.2	63.4	62.6	61.8	61.1	60.3	59.6
54	66.9	66.1	65.3	64.5	63.8	63.0	62.2	61.5	60.7	60.0
55	67.2	66.4	65.7	64.9	64.1	63.3	62.6	61.8	61.1	60.3
56	67.5	66.8	66.0	65.2	64.4	63.7	62.9	62.2	61.5	60.7
57	67.8	67.1	66.3	65.5	64.8	64.0	63.3	62.5	61.8	61.1

表 5a₂（续）

$t-t_w$ / t	7.2	7.4	7.6	7.8	8.0	8.2	8.4	8.6	8.8	9.0
58	68.1	67.4	66.6	65.9	65.1	64.4	63.6	62.9	62.2	61.4
59	68.4	67.7	66.9	66.2	65.4	64.7	63.9	63.2	62.5	61.8
60	68.7	67.9	67.2	66.5	65.7	65.0	64.3	63.5	62.8	62.1
61	69.0	68.2	67.5	66.8	66.0	65.3	64.6	63.9	63.2	62.4
62	69.2	68.5	67.8	67.0	66.3	65.6	64.9	64.2	63.5	62.8
63	69.5	68.8	68.0	67.3	66.6	65.9	65.2	64.5	63.8	63.1
64	69.8	69.0	68.3	67.6	66.9	66.2	65.5	64.8	64.1	63.4
65	70.0	69.3	68.6	67.9	67.1	66.4	65.7	65.0	64.4	63.7
66	70.3	69.5	68.8	68.1	67.4	66.7	66.0	65.3	64.6	64.0
67	70.5	69.8	69.1	68.4	67.7	67.0	66.3	65.6	64.9	64.2
68	70.7	70.0	69.3	68.6	67.9	67.2	66.5	65.9	65.2	64.5
69	71.0	70.2	69.6	68.9	68.2	67.5	66.8	66.1	65.5	64.8
70	71.2	70.5	69.8	69.1	68.4	67.7	67.1	66.4	65.7	65.1
71	71.4	70.7	70.0	69.3	68.6	68.0	67.3	66.6	66.0	65.3
72	71.6	70.9	70.2	69.6	68.9	68.2	67.5	66.9	66.2	65.6
73	71.8	71.1	70.5	69.8	69.1	68.4	67.8	67.1	66.5	65.8
74	72.0	71.3	70.7	70.0	69.3	68.7	68.0	67.4	66.7	66.1
75	72.2	71.6	70.9	70.2	69.6	68.9	68.2	67.6	67.0	66.3
76	72.4	71.8	71.1	70.4	69.8	69.1	68.5	67.8	67.2	66.6
77	72.6	72.0	71.3	70.6	70.0	69.3	68.7	68.1	67.4	66.8
78	72.8	72.2	71.5	70.8	70.2	69.6	68.9	68.3	67.6	67.0
79	73.0	72.4	71.7	71.0	70.4	69.8	69.1	68.5	67.9	67.2
80	73.2	72.5	71.9	71.2	70.6	70.0	69.3	68.7	68.1	67.5
81	73.4	72.7	72.1	71.4	70.8	70.2	69.5	68.9	68.3	67.7
82	73.6	72.9	72.3	71.6	71.0	70.4	69.7	69.1	68.5	67.9
83	73.7	73.1	72.5	71.8	71.2	70.6	69.9	69.3	68.7	68.1
84	73.9	73.3	72.6	72.0	71.4	70.8	70.1	69.5	68.9	68.3
85	74.1	73.5	72.8	72.2	71.6	71.0	70.3	69.7	69.1	68.5
86	74.3	73.6	73.0	72.4	71.8	71.1	70.5	69.9	69.3	68.7
87	74.4	73.8	73.2	72.6	71.9	71.3	70.7	70.1	69.5	68.9
88	74.6	74.0	73.4	72.7	72.1	71.5	70.9	70.3	69.7	69.1
89	74.8	74.1	73.5	72.9	72.3	71.7	71.1	70.5	69.9	69.3
90	74.9	74.3	73.7	73.1	72.5	71.9	71.3	70.7	70.1	69.5
91	75.1	74.5	73.9	73.2	72.6	72.0	71.5	70.9	70.3	69.7
92	75.2	74.6	74.0	73.4	72.8	72.2	71.6	71.0	70.5	69.9
93	75.4	74.8	74.2	73.6	73.0	72.4	71.8	71.2	70.6	70.1
94	75.5	74.9	74.3	73.7	73.2	72.6	72.0	71.4	70.8	70.2
95	75.7	75.1	74.5	73.9	73.3	72.7	72.1	71.6	71.0	70.4
96	75.8	75.2	74.7	74.1	73.5	72.9	72.3	71.7	71.2	70.6
97	76.0	75.4	74.8	74.2	73.6	73.1	72.5	71.9	71.3	70.8
98	76.1	75.5	75.0	74.4	73.8	73.2	72.6	72.1	71.5	70.9
99	76.3	75.7	75.1	74.5	74.0	73.4	72.8	72.2	71.7	71.1
100	76.4	75.8	75.3	74.7	74.1	73.5	73.0	72.4	71.8	71.3

表 5a₂（续）

$t-t_w$ t	9.2	9.4	9.6	9.8	10.0	10.2	10.4	10.6	10.8	11.0
15	18.9	17.4	15.9	14.4	12.9	11.4	10.0	8.5	7.1	5.6
16	21.3	19.9	18.4	17.0	15.5	14.1	12.7	11.3	9.9	8.5
17	23.6	22.2	20.8	19.4	18.0	16.7	15.3	13.9	12.6	11.2
18	25.8	24.4	23.1	21.7	20.4	19.0	17.7	16.4	15.1	13.8
19	27.8	26.5	25.2	23.9	22.6	21.3	20.0	18.7	17.4	16.2
20	29.7	28.4	27.1	25.9	24.6	23.3	22.1	20.9	19.6	18.4
21	31.5	30.3	29.0	27.8	26.5	25.3	24.1	22.9	21.7	20.5
22	33.2	32.0	30.8	29.6	28.4	27.2	26.0	24.8	23.7	22.5
23	34.8	33.6	32.4	31.2	30.1	28.9	27.8	26.6	25.5	24.4
24	36.3	35.1	34.0	32.8	31.7	30.6	29.4	28.3	27.2	26.1
25	37.7	36.6	35.5	34.3	33.2	32.1	31.0	29.9	28.9	27.8
26	39.0	37.9	36.8	35.8	34.7	33.6	32.5	31.5	30.4	29.4
27	40.3	39.2	38.2	37.1	36.0	35.0	33.9	32.9	31.9	30.9
28	41.5	40.5	39.4	38.4	37.3	36.3	35.3	34.3	33.3	32.3
29	42.7	41.6	40.6	39.6	38.6	37.5	36.5	35.6	34.6	33.6
30	43.7	42.7	41.7	40.7	39.7	38.7	37.8	36.8	35.8	34.9
31	44.8	43.8	42.8	41.8	40.8	39.9	38.9	37.9	37.0	36.1
32	45.7	44.8	43.8	42.8	41.9	40.9	40.0	39.0	38.1	37.2
33	46.7	45.7	44.8	43.8	42.9	41.9	41.0	40.1	39.2	38.3
34	47.5	46.6	45.7	44.7	43.8	42.9	42.0	41.1	40.2	39.3
35	48.4	47.5	46.5	45.6	44.7	43.8	42.9	42.0	41.2	40.3
36	49.2	48.3	47.4	46.5	45.6	44.7	43.8	42.9	42.1	41.2
37	50.0	49.1	48.2	47.3	46.4	45.5	44.7	43.8	43.0	42.1
38	50.7	49.8	48.9	48.1	47.2	46.3	45.5	44.6	43.8	43.0
39	51.4	50.5	49.7	48.8	48.0	47.1	46.3	45.4	44.6	43.8
40	52.1	51.2	50.4	49.5	48.7	47.8	47.0	46.2	45.4	44.6
41	52.7	51.9	51.0	50.2	49.4	48.5	47.7	46.9	46.1	45.3
42	53.3	52.5	51.7	50.8	50.0	49.2	48.4	47.6	46.8	46.0
43	53.9	53.1	52.3	51.5	50.7	49.9	49.1	48.3	47.5	46.7
44	54.5	53.7	52.9	52.1	51.3	50.5	49.7	48.9	48.1	47.4
45	55.1	54.2	53.4	52.7	51.9	51.1	50.3	49.5	48.8	48.0
46	55.6	54.8	54.0	53.2	52.4	51.7	50.9	50.1	49.4	48.6
47	56.1	55.3	54.5	53.7	53.0	52.2	51.5	50.7	50.0	49.2
48	56.6	55.8	55.0	54.3	53.5	52.7	52.0	51.3	50.5	49.8
49	57.1	56.3	55.5	54.8	54.0	53.3	52.5	51.8	51.1	50.3
50	57.5	56.8	56.0	55.3	54.5	53.8	53.0	52.3	51.6	50.9
51	58.0	57.2	56.5	55.7	55.0	54.2	53.5	52.8	52.1	51.4
52	58.4	57.7	56.9	56.2	55.4	54.7	54.0	53.3	52.6	51.9
53	58.8	58.1	57.3	56.6	55.9	55.2	54.5	53.7	53.0	52.3
54	59.2	58.5	57.8	57.0	56.3	55.6	54.9	54.2	53.5	52.8
55	59.6	58.9	58.2	57.4	56.7	56.0	55.3	54.6	53.9	53.3
56	60.0	59.3	58.6	57.8	57.1	56.4	55.7	55.1	54.4	53.7
57	60.4	59.6	58.9	58.2	57.5	56.8	56.2	55.5	54.8	54.1

<center>表 5a₂（续）</center>

$t-t_w$ ⟍ t	9.2	9.4	9.6	9.8	10.0	10.2	10.4	10.6	10.8	11.0
58	60.7	60.0	59.3	58.6	57.9	57.2	56.5	55.9	55.2	54.5
59	61.1	60.4	59.7	59.0	58.3	57.6	56.9	56.3	55.6	54.9
60	61.4	60.7	60.0	59.3	58.7	58.0	57.3	56.6	56.0	55.3
61	61.7	61.1	60.4	59.7	59.0	58.3	57.7	57.0	56.3	55.7
62	62.1	61.4	60.7	60.0	59.4	58.7	58.0	57.4	56.7	56.1
63	62.4	61.7	61.0	60.4	59.7	59.0	58.4	57.7	57.1	56.4
64	62.7	62.0	61.3	60.7	60.0	59.4	58.7	58.1	57.4	56.8
65	63.0	62.3	61.7	61.0	60.3	59.7	59.0	58.4	57.8	57.1
66	63.3	62.6	62.0	61.3	60.7	60.0	59.4	58.7	58.1	57.5
67	63.6	62.9	62.3	61.6	61.0	60.3	59.7	59.0	58.4	57.8
68	63.9	63.2	62.5	61.9	61.3	60.6	60.0	59.4	58.7	58.1
69	64.1	63.5	62.8	62.2	61.5	60.9	60.3	59.7	59.0	58.4
70	64.4	63.8	63.1	62.5	61.8	61.2	60.6	60.0	59.3	58.7
71	64.7	64.0	63.4	62.7	62.1	61.5	60.9	60.2	59.6	59.0
72	64.9	64.3	63.7	63.0	62.4	61.8	61.2	60.5	59.9	59.3
73	65.2	64.5	63.9	63.3	62.7	62.0	61.4	60.8	60.2	59.6
74	65.4	64.8	64.2	63.5	62.9	62.3	61.7	61.1	60.5	59.9
75	65.7	65.1	64.4	63.8	63.2	62.6	62.0	61.4	60.8	60.2
76	65.9	65.3	64.7	64.1	63.4	62.8	62.2	61.6	61.0	60.4
77	66.2	65.5	64.9	64.3	63.7	63.1	62.5	61.9	61.3	60.7
78	66.4	65.8	65.2	64.6	63.9	63.3	62.7	62.2	61.6	61.0
79	66.6	66.0	65.4	64.8	64.2	63.6	63.0	62.4	61.8	61.2
80	66.8	66.2	65.6	65.0	64.4	63.8	63.2	62.7	62.1	61.5
81	67.1	66.5	65.9	65.3	64.7	64.1	63.5	62.9	62.3	61.7
82	67.3	66.7	66.1	65.5	64.9	64.3	63.7	63.1	62.6	62.0
83	67.5	66.9	66.3	65.7	65.1	64.5	64.0	63.4	62.8	62.2
84	67.7	67.1	66.5	65.9	65.3	64.8	64.2	63.6	63.0	62.5
85	67.9	67.3	66.7	66.1	65.6	65.0	64.4	63.8	63.3	62.7
86	68.1	67.5	66.9	66.4	65.8	65.2	64.6	64.1	63.5	62.9
87	68.3	67.7	67.2	66.6	66.0	65.4	64.9	64.3	63.7	63.2
88	68.5	67.9	67.4	66.8	66.2	65.6	65.1	64.5	64.0	63.4
89	68.7	68.1	67.6	67.0	66.4	65.9	65.3	64.7	64.2	63.6
90	68.9	68.3	67.8	67.2	66.6	66.1	65.5	64.9	64.4	63.8
91	69.1	68.5	68.0	67.4	66.8	66.3	65.7	65.2	64.6	64.1
92	69.3	68.7	68.2	67.6	67.0	66.5	65.9	65.4	64.8	64.3
93	69.5	68.9	68.4	67.8	67.2	66.7	66.1	65.6	65.0	64.5
94	69.7	69.1	68.5	68.0	67.4	66.9	66.3	65.8	65.2	64.7
95	69.9	69.3	68.7	68.2	67.6	67.1	66.5	66.0	65.4	64.9
96	70.0	69.5	68.9	68.4	67.8	67.3	66.7	66.2	65.6	65.1
97	70.2	69.7	69.1	68.5	68.0	67.5	66.9	66.4	65.8	65.3
98	70.4	69.8	69.3	68.7	68.2	67.6	67.1	66.6	66.0	65.5
99	70.6	70.0	69.5	68.9	68.4	67.8	67.3	66.8	66.2	65.7
100	70.7	70.2	69.6	69.1	68.6	68.0	67.5	67.0	66.4	65.9

表 5a₂（续）

$t-t_w$ / t	11.5	12.0	12.5	13.5	13.5	14.0	14.5	15.0	15.5	16.0
15	2.0									
16	5.1	1.7								
17	7.9	4.6	1.4							
18	10.5	7.4	4.3	1.2						
19	13.0	10.0	6.9	4.0	1.0					
20	15.4	12.4	9.5	6.6	3.7	0.9				
21	17.6	14.7	11.8	9.0	6.3	3.6	0.9			
22	19.6	16.8	14.1	11.3	8.7	6.0	3.4	0.9		
23	21.6	18.9	16.2	13.5	10.9	8.3	5.8	3.3	0.9	
24	23.4	20.8	18.1	15.6	13.0	10.5	8.1	5.7	3.3	1.0
25	25.2	22.6	20.0	17.5	15.0	12.6	10.2	7.9	5.6	3.3
26	26.8	24.3	21.8	19.3	16.9	14.5	12.2	9.9	7.7	5.5
27	28.3	25.9	23.4	21.0	18.7	16.4	14.1	11.9	9.7	7.5
28	29.8	27.4	25.0	22.7	20.4	18.1	15.9	13.7	11.6	9.5
29	31.2	28.8	26.5	24.2	22.0	19.8	17.6	15.5	13.4	11.3
30	32.5	30.2	27.9	25.7	23.5	21.3	19.2	17.1	15.1	13.1
31	33.7	31.5	29.2	27.0	24.9	22.8	20.7	18.7	16.7	14.7
32	34.9	32.7	30.5	28.4	26.3	24.2	22.2	20.2	18.2	16.3
33	36.1	33.9	31.7	29.6	27.5	25.5	23.5	21.6	19.6	17.8
34	37.1	35.0	32.9	30.8	28.8	26.8	24.8	22.9	21.0	19.2
35	38.1	36.0	34.0	31.9	29.9	28.0	26.1	24.2	22.3	20.5
36	39.1	37.0	35.0	33.0	31.0	29.1	27.2	25.4	23.6	21.8
37	40.0	38.0	36.0	34.0	32.1	30.2	28.3	26.5	24.7	23.0
38	40.9	38.9	36.9	35.0	33.1	31.2	29.4	27.6	25.9	24.1
39	41.8	39.8	37.8	35.9	34.1	32.2	30.4	28.7	26.9	25.2
40	42.6	40.6	38.7	36.8	35.0	33.2	31.4	29.7	28.0	26.3
41	43.4	41.4	39.5	37.7	35.9	34.1	32.3	30.6	28.9	27.3
42	44.1	42.2	40.3	38.5	36.7	35.0	33.2	31.5	29.9	28.3
43	44.8	42.9	41.1	39.3	37.5	35.8	34.1	32.4	30.8	29.2
44	45.5	43.6	41.8	40.0	38.3	36.6	34.9	33.3	31.6	30.1
45	46.1	44.3	42.5	40.8	39.0	37.3	35.7	34.1	32.5	30.9
46	46.8	45.0	43.2	41.5	39.8	38.1	36.4	34.8	33.3	31.7
47	47.4	45.6	43.8	42.1	40.4	38.8	37.2	35.6	34.0	32.5
48	48.0	46.2	44.5	42.8	41.1	39.5	37.9	36.3	34.8	33.2
49	48.5	46.8	45.1	43.4	41.7	40.1	38.5	37.0	35.5	34.0
50	49.1	47.4	45.7	44.0	42.4	40.8	39.2	37.6	36.1	34.7
51	49.6	47.9	46.2	44.6	43.0	41.4	39.8	38.3	36.8	35.3
52	50.1	48.4	46.8	45.1	43.5	42.0	40.4	38.9	37.4	36.0
53	50.6	48.9	47.3	45.7	44.1	42.5	41.0	39.5	38.0	36.6
54	51.1	49.4	47.8	46.2	44.6	43.1	41.6	40.1	38.6	37.2
55	51.6	49.9	48.3	46.7	45.1	43.6	42.1	40.6	39.2	37.8
56	52.0	50.4	48.8	47.2	45.6	44.1	42.6	41.2	39.8	38.4
57	52.5	50.8	49.2	47.7	46.1	44.6	43.2	41.7	40.3	38.9

表 5a₂（续）

t―t_w / t	11.5	12.0	12.5	13.5	13.5	14.0	14.5	15.0	15.5	16.0
58	52.9	51.3	49.7	48.1	46.6	45.1	43.7	42.2	40.8	39.4
59	53.3	51.7	50.1	48.6	47.1	45.6	44.1	42.7	41.3	39.9
60	53.7	52.1	50.6	49.0	47.5	46.1	44.6	43.2	41.8	40.4
61	54.1	52.5	51.0	49.4	48.0	46.5	45.1	43.7	42.3	40.9
62	54.5	52.9	51.4	49.9	48.4	46.9	45.5	44.1	42.8	41.4
63	54.8	53.3	51.8	50.3	48.8	47.4	45.9	44.6	43.2	41.9
64	55.2	53.7	52.1	50.7	49.2	47.8	46.4	45.0	43.6	42.3
65	55.6	54.0	52.5	51.0	49.6	48.2	46.8	45.4	44.1	42.8
66	55.9	54.4	52.9	51.4	50.0	48.6	47.2	45.8	44.5	43.2
67	56.2	54.7	53.2	51.8	50.4	49.0	47.6	46.2	44.9	43.6
68	56.6	55.1	53.6	52.1	50.7	49.3	48.0	46.6	45.3	44.0
69	56.9	55.4	53.9	52.5	51.1	49.7	48.3	47.0	45.7	44.4
70	57.2	55.7	54.3	52.8	51.4	50.1	48.7	47.4	46.1	44.8
71	57.5	56.0	54.6	53.2	51.8	50.4	49.1	47.7	46.5	45.2
72	57.8	56.4	54.9	53.5	52.1	50.8	49.4	48.1	46.8	45.6
73	58.1	56.7	55.2	53.8	52.4	51.1	49.8	48.5	47.2	45.9
74	58.4	57.0	55.5	54.1	52.8	51.4	50.1	48.8	47.5	46.3
75	58.7	57.3	55.8	54.5	53.1	51.8	50.4	49.1	47.9	46.6
76	59.0	57.6	56.1	54.8	53.4	52.1	50.8	49.5	48.2	47.0
77	59.3	57.8	56.4	55.1	53.7	52.4	51.1	49.8	48.5	47.3
78	59.5	58.1	56.7	55.4	54.0	52.7	51.4	50.1	48.9	47.6
79	59.8	58.4	57.0	55.6	54.3	53.0	51.7	50.4	49.2	48.0
80	60.1	58.7	57.3	55.9	54.6	53.3	52.0	50.7	49.5	48.3
81	60.3	58.9	57.6	56.2	54.9	53.6	52.3	51.1	49.8	48.6
82	60.6	59.2	57.8	56.5	55.2	53.9	52.6	51.4	50.1	48.9
83	60.8	59.4	58.1	56.8	55.4	54.2	52.9	51.6	50.4	49.2
84	61.1	59.7	58.4	57.0	55.7	54.4	53.2	51.9	50.7	49.5
85	61.3	60.0	58.6	57.3	56.0	54.7	53.5	52.2	51.0	49.8
86	61.6	60.2	58.9	57.5	56.3	55.0	53.7	52.5	51.3	50.1
87	61.8	60.4	59.1	57.8	56.5	55.3	54.0	52.8	51.6	50.4
88	62.0	60.7	59.4	58.1	56.8	55.5	54.3	53.1	51.9	50.7
89	62.3	60.9	59.6	58.3	57.0	55.8	54.5	53.3	52.1	51.0
90	62.5	61.2	59.8	58.5	57.3	56.0	54.8	53.6	52.4	51.2
91	62.7	61.4	60.1	58.8	57.5	56.3	55.1	53.9	52.7	51.5
92	62.9	61.6	60.3	59.0	57.8	56.5	55.3	54.1	52.9	51.8
93	63.2	61.8	60.5	59.3	58.0	56.8	55.6	54.4	53.2	52.0
94	63.4	62.1	60.8	59.5	58.3	57.0	55.8	54.6	53.5	52.3
95	63.6	62.3	61.0	59.7	58.5	57.3	56.1	54.9	53.7	52.6
96	63.8	62.5	61.2	60.0	58.7	57.5	56.3	55.1	54.0	52.8
97	64.0	62.7	61.4	60.2	58.9	57.7	56.5	55.4	54.2	53.1
98	64.2	62.9	61.6	60.4	59.2	58.0	56.8	55.6	54.5	53.3
99	64.4	63.1	61.9	60.6	59.4	58.2	57.0	55.9	54.7	53.6
100	64.6	63.3	62.1	60.8	59.6	58.4	57.2	56.1	54.9	53.8

表 5b 球状水银温度表相对湿度查算表

$$P=90 \text{ kPa}, A=0.794\ 7 \times 10^{-3} ℃^{-1}(0.8 \text{ m/s})$$

$t-t_w$ / t	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0
15	100.0	99.0	98.0	97.0	96.0	95.0	94.0	93.0	92.0	91.0	90.0
16	100.0	99.0	98.0	97.0	96.1	95.1	94.1	93.2	92.2	91.2	90.3
17	100.0	99.0	98.1	97.1	96.2	95.2	94.3	93.3	92.4	91.5	90.6
18	100.0	99.1	98.1	97.2	96.3	95.4	94.4	93.5	92.6	91.7	90.8
19	100.0	99.1	98.2	97.3	96.4	95.5	94.6	93.7	92.8	91.9	91.0
20	100.0	99.1	98.2	97.3	96.5	95.6	94.7	93.8	93.0	92.1	91.3
21	100.0	99.1	98.3	97.4	96.5	95.7	94.8	94.0	93.1	92.3	91.5
22	100.0	99.2	98.3	97.5	96.6	95.8	95.0	94.1	93.3	92.5	91.7
23	100.0	99.2	98.3	97.5	96.7	95.9	95.1	94.3	93.4	92.6	91.8
24	100.0	99.2	98.4	97.6	96.8	96.0	95.2	94.4	93.6	92.8	92.0
25	100.0	99.2	98.4	97.6	96.8	96.1	95.3	94.5	93.7	93.0	92.2
26	100.0	99.2	98.4	97.7	96.9	96.1	95.4	94.6	93.9	93.1	92.3
27	100.0	99.2	98.5	97.7	97.0	96.2	95.5	94.7	94.0	93.2	92.5
28	100.0	99.3	98.5	97.8	97.0	96.3	95.5	94.8	94.1	93.4	92.6
29	100.0	99.3	98.5	97.8	97.1	96.4	95.6	94.9	94.2	93.5	92.8
30	100.0	99.3	98.6	97.8	97.1	96.4	95.7	95.0	94.3	93.6	92.9
31	100.0	99.3	98.6	97.9	97.2	96.5	95.8	95.1	94.4	93.7	93.0
32	100.0	99.3	98.6	97.9	97.2	96.5	95.9	95.2	94.5	93.8	93.1
33	100.0	99.3	98.6	97.9	97.3	96.6	95.9	95.3	94.6	93.9	93.3
34	100.0	99.3	98.7	98.0	97.3	96.7	96.0	95.3	94.7	94.0	93.4
35	100.0	99.3	98.7	98.0	97.4	96.7	96.1	95.4	94.8	94.1	93.5
36	100.0	99.3	98.7	98.0	97.4	96.8	96.1	95.5	94.8	94.2	93.6
37	100.0	99.4	98.7	98.1	97.4	96.8	96.2	95.5	94.9	94.3	93.7
38	100.0	99.4	98.7	98.1	97.5	96.8	96.2	95.6	95.0	94.4	93.8
39	100.0	99.4	98.7	98.1	97.5	96.9	96.3	95.7	95.1	94.4	93.8
40	100.0	99.4	98.8	98.2	97.5	96.9	96.3	95.7	95.1	94.5	93.9
41	100.0	99.4	98.8	98.2	97.6	97.0	96.4	95.8	95.2	94.6	94.0
42	100.0	99.4	98.8	98.2	97.6	97.0	96.4	95.8	95.3	94.7	94.1
43	100.0	99.4	98.8	98.2	97.6	97.1	96.5	95.9	95.3	94.7	94.2
44	100.0	99.4	98.8	98.2	97.7	97.1	96.5	95.9	95.4	94.8	94.2
45	100.0	99.4	98.8	98.3	97.7	97.1	96.6	96.0	95.4	94.9	94.3
46	100.0	99.4	98.9	98.3	97.7	97.2	96.6	96.0	95.5	94.9	94.4
47	100.0	99.4	98.9	98.3	97.8	97.2	96.6	96.1	95.5	95.0	94.4
48	100.0	99.4	98.9	98.3	97.8	97.2	96.7	96.1	95.6	95.0	94.5
49	100.0	99.4	98.9	98.3	97.8	97.3	96.7	96.2	95.6	95.1	94.6
50	100.0	99.5	98.9	98.4	97.8	97.3	96.8	96.2	95.7	95.2	94.6
51	100.0	99.5	98.9	98.4	97.8	97.3	96.8	96.3	95.7	95.2	94.7
52	100.0	99.5	98.9	98.4	97.9	97.3	96.8	96.3	95.8	95.3	94.7
53	100.0	99.5	98.9	98.4	97.9	97.4	96.9	96.3	95.8	95.3	94.8
54	100.0	99.5	99.0	98.4	97.9	97.4	96.9	96.4	95.9	95.4	94.9
55	100.0	99.5	99.0	98.5	97.9	97.4	96.9	96.4	95.9	95.4	94.9
56	100.0	99.5	99.0	98.5	98.0	97.5	96.9	96.4	95.9	95.4	95.0
57	100.0	99.5	99.0	98.5	98.0	97.5	97.0	96.5	96.0	95.5	95.0

表 5b（续）

$t-t_w$ / t	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0
58	100.0	99.5	99.0	98.5	98.0	97.5	97.0	96.5	96.0	95.5	95.1
59	100.0	99.5	99.0	98.5	98.0	97.5	97.0	96.5	96.1	95.6	95.1
60	100.0	99.5	99.0	98.5	98.0	97.5	97.1	96.6	96.1	95.6	95.1
61	100.0	99.5	99.0	98.5	98.1	97.6	97.1	96.6	96.1	95.7	95.2
62	100.0	99.5	99.0	98.6	98.1	97.6	97.1	96.6	96.2	95.7	95.2
63	100.0	99.5	99.0	98.6	98.1	97.6	97.1	96.7	96.2	95.7	95.3
64	100.0	99.5	99.0	98.6	98.1	97.6	97.2	96.7	96.2	95.8	95.3
65	100.0	99.5	99.1	98.6	98.1	97.7	97.2	96.7	96.3	95.8	95.4
66	100.0	99.5	99.1	98.6	98.1	97.7	97.2	96.8	96.3	95.8	95.4
67	100.0	99.5	99.1	98.6	98.2	97.7	97.2	96.8	96.3	95.9	95.4
68	100.0	99.5	99.1	98.6	98.2	97.7	97.3	96.8	96.4	95.9	95.5
69	100.0	99.5	99.1	98.6	98.2	97.7	97.3	96.8	96.4	96.0	95.5
70	100.0	99.5	99.1	98.6	98.2	97.8	97.3	96.9	96.4	96.0	95.5
71	100.0	99.6	99.1	98.7	98.2	97.8	97.3	96.9	96.5	96.0	95.6
72	100.0	99.6	99.1	98.7	98.2	97.8	97.4	96.9	96.5	96.1	95.6
73	100.0	99.6	99.1	98.7	98.2	97.8	97.4	96.9	96.5	96.1	95.7
74	100.0	99.6	99.1	98.7	98.3	97.8	97.4	97.0	96.5	96.1	95.7
75	100.0	99.6	99.1	98.7	98.3	97.8	97.4	97.0	96.6	96.1	95.7
76	100.0	99.6	99.1	98.7	98.3	97.9	97.4	97.0	96.6	96.2	95.8
77	100.0	99.6	99.1	98.7	98.3	97.9	97.5	97.0	96.6	96.2	95.8
78	100.0	99.6	99.2	98.7	98.3	97.9	97.5	97.1	96.6	96.2	95.8
79	100.0	99.6	99.2	98.7	98.3	97.9	97.5	97.1	96.7	96.3	95.9
80	100.0	99.6	99.2	98.8	98.3	97.9	97.5	97.1	96.7	96.3	95.9
81	100.0	99.6	99.2	98.8	98.3	97.9	97.5	97.1	96.7	96.3	95.9
82	100.0	99.6	99.2	98.8	98.4	98.0	97.6	97.1	96.7	96.3	95.9
83	100.0	99.6	99.2	98.8	98.4	98.0	97.6	97.2	96.8	96.4	96.0
84	100.0	99.6	99.2	98.8	98.4	98.0	97.6	97.2	96.8	96.4	96.0
85	100.0	99.6	99.2	98.8	98.4	98.0	97.6	97.2	96.8	96.4	96.0
86	100.0	99.6	99.2	98.8	98.4	98.0	97.6	97.2	96.8	96.4	96.1
87	100.0	99.6	99.2	98.8	98.4	98.0	97.6	97.2	96.9	96.5	96.1
88	100.0	99.6	99.2	98.8	98.4	98.0	97.7	97.3	96.9	96.5	96.1
89	100.0	99.6	99.2	98.8	98.4	98.1	97.7	97.3	96.9	96.5	96.1
90	100.0	99.6	99.2	98.8	98.5	98.1	97.7	97.3	96.9	96.5	96.2
91	100.0	99.6	99.2	98.8	98.5	98.1	97.7	97.3	96.9	96.6	96.2
92	100.0	99.6	99.2	98.9	98.5	98.1	97.7	97.3	97.0	96.6	96.2
93	100.0	99.6	99.2	98.9	98.5	98.1	97.7	97.4	97.0	96.6	96.2
94	100.0	99.6	99.2	98.9	98.5	98.1	97.8	97.4	97.0	96.6	96.3
95	100.0	99.6	99.3	98.9	98.5	98.1	97.8	97.4	97.0	96.7	96.3
96	100.0	99.6	99.3	98.9	98.5	98.1	97.8	97.4	97.1	96.7	96.3
97	100.0	99.6	99.3	98.9	98.5	98.2	97.8	97.4	97.1	96.7	96.3
98	100.0	99.6	99.3	98.9	98.5	98.2	97.8	97.4	97.1	96.7	96.4
99	100.0	99.6	99.3	98.9	98.5	98.2	97.8	97.5	97.1	96.8	96.4
100	100.0	99.6	99.3	98.9	98.6	98.2	97.8	97.5	97.1	96.8	96.4

表 5b（续）

t／t−tw	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0
15	89.0	88.1	87.1	86.1	85.1	84.2	83.2	82.3	81.3	80.4
16	89.3	88.4	87.4	86.5	85.6	84.6	83.7	82.8	81.8	80.9
17	89.6	88.7	87.8	86.9	86.0	85.0	84.1	83.2	82.3	81.4
18	89.9	89.0	88.1	87.2	86.3	85.4	84.6	83.7	82.8	81.9
19	90.2	89.3	88.4	87.5	86.7	85.8	84.9	84.1	83.2	82.4
20	90.4	89.5	88.7	87.8	87.0	86.2	85.3	84.5	83.7	82.8
21	90.6	89.8	89.0	88.1	87.3	86.5	85.7	84.9	84.0	83.2
22	90.8	90.0	89.2	88.4	87.6	86.8	86.0	85.2	84.4	83.6
23	91.0	90.2	89.5	88.7	87.9	87.1	86.3	85.5	84.8	84.0
24	91.2	90.5	89.7	88.9	88.1	87.4	86.6	85.8	85.1	84.3
25	91.4	90.7	89.9	89.1	88.4	87.6	86.9	86.1	85.4	84.7
26	91.6	90.8	90.1	89.4	88.6	87.9	87.2	86.4	85.7	85.0
27	91.8	91.0	90.3	89.6	88.8	88.1	87.4	86.7	86.0	85.3
28	91.9	91.2	90.5	89.8	89.1	88.4	87.7	87.0	86.3	85.6
29	92.1	91.4	90.7	90.0	89.3	88.6	87.9	87.2	86.5	85.8
30	92.2	91.5	90.8	90.1	89.5	88.8	88.1	87.4	86.8	86.1
31	92.3	91.7	91.0	90.3	89.6	89.0	88.3	87.6	87.0	86.3
32	92.5	91.8	91.1	90.5	89.8	89.2	88.5	87.9	87.2	86.6
33	92.6	91.9	91.3	90.6	90.0	89.3	88.7	88.1	87.4	86.8
34	92.7	92.1	91.4	90.8	90.1	89.5	88.9	88.2	87.6	87.0
35	92.8	92.2	91.6	90.9	90.3	89.7	89.1	88.4	87.8	87.2
36	92.9	92.3	91.7	91.1	90.4	89.8	89.2	88.6	88.0	87.4
37	93.0	92.4	91.8	91.2	90.6	90.0	89.4	88.8	88.2	87.6
38	93.1	92.5	91.9	91.3	90.7	90.1	89.5	88.9	88.3	87.8
39	93.2	92.6	92.0	91.4	90.9	90.3	89.7	89.1	88.5	87.9
40	93.3	92.7	92.2	91.6	91.0	90.4	89.8	89.2	88.7	88.1
41	93.4	92.8	92.3	91.7	91.1	90.5	90.0	89.4	88.8	88.3
42	93.5	92.9	92.4	91.8	91.2	90.7	90.1	89.5	89.0	88.4
43	93.6	93.0	92.5	91.9	91.3	90.8	90.2	89.7	89.1	88.6
44	93.7	93.1	92.6	92.0	91.4	90.9	90.3	89.8	89.2	88.7
45	93.8	93.2	92.6	92.1	91.5	91.0	90.5	89.9	89.4	88.8
46	93.8	93.3	92.7	92.2	91.6	91.1	90.6	90.0	89.5	89.0
47	93.9	93.4	92.8	92.3	91.7	91.2	90.7	90.1	89.6	89.1
48	94.0	93.4	92.9	92.4	91.8	91.3	90.8	90.3	89.7	89.2
49	94.0	93.5	93.0	92.5	91.9	91.4	90.9	90.4	89.9	89.3
50	94.1	93.6	93.1	92.5	92.0	91.5	91.0	90.5	90.0	89.5
51	94.2	93.6	93.1	92.6	92.1	91.6	91.1	90.6	90.1	89.6
52	94.2	93.7	93.2	92.7	92.2	91.7	91.2	90.7	90.2	89.7
53	94.3	93.8	93.3	92.8	92.3	91.8	91.3	90.8	90.3	89.8
54	94.3	93.8	93.3	92.8	92.3	91.9	91.4	90.9	90.4	89.9
55	94.4	93.9	93.4	92.9	92.4	91.9	91.4	91.0	90.5	90.0
56	94.5	94.0	93.5	93.0	92.5	92.0	91.5	91.1	90.6	90.1
57	94.5	94.0	93.5	93.1	92.6	92.1	91.6	91.1	90.7	90.2

表 5b（续）

$t-t_w$ / t	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0
58	94.6	94.1	93.6	93.1	92.6	92.2	91.7	91.2	90.8	90.3
59	94.6	94.1	93.7	93.2	92.7	92.2	91.8	91.3	90.8	90.4
60	94.7	94.2	93.7	93.3	92.8	92.3	91.8	91.4	90.9	90.5
61	94.7	94.2	93.8	93.3	92.8	92.4	91.9	91.5	91.0	90.5
62	94.8	94.3	93.8	93.4	92.9	92.5	92.0	91.5	91.1	90.6
63	94.8	94.3	93.9	93.4	93.0	92.5	92.1	91.6	91.2	90.7
64	94.9	94.4	93.9	93.5	93.0	92.6	92.1	91.7	91.2	90.8
65	94.9	94.4	94.0	93.5	93.1	92.7	92.2	91.8	91.3	90.9
66	94.9	94.5	94.0	93.6	93.2	92.7	92.3	91.8	91.4	91.0
67	95.0	94.5	94.1	93.7	93.2	92.8	92.3	91.9	91.5	91.0
68	95.0	94.6	94.1	93.7	93.3	92.8	92.4	92.0	91.5	91.1
69	95.1	94.6	94.2	93.8	93.3	92.9	92.5	92.0	91.6	91.2
70	95.1	94.7	94.2	93.8	93.4	93.0	92.5	92.1	91.7	91.3
71	95.2	94.7	94.3	93.9	93.4	93.0	92.6	92.2	91.7	91.3
72	95.2	94.8	94.3	93.9	93.5	93.1	92.6	92.2	91.8	91.4
73	95.2	94.8	94.4	94.0	93.5	93.1	92.7	92.3	91.9	91.5
74	95.3	94.8	94.4	94.0	93.6	93.2	92.8	92.3	91.9	91.5
75	95.3	94.9	94.5	94.1	93.6	93.2	92.8	92.4	92.0	91.6
76	95.3	94.9	94.5	94.1	93.7	93.3	92.9	92.5	92.1	91.7
77	95.4	95.0	94.6	94.1	93.7	93.3	92.9	92.5	92.1	91.7
78	95.4	95.0	94.6	94.2	93.8	93.4	93.0	92.6	92.2	91.8
79	95.4	95.0	94.6	94.2	93.8	93.4	93.0	92.6	92.2	91.8
80	95.5	95.1	94.7	94.3	93.9	93.5	93.1	92.7	92.3	91.9
81	95.5	95.1	94.7	94.3	93.9	93.5	93.1	92.7	92.4	92.0
82	95.5	95.2	94.8	94.4	94.0	93.6	93.2	92.8	92.4	92.0
83	95.6	95.2	94.8	94.4	94.0	93.6	93.2	92.8	92.5	92.1
84	95.6	95.2	94.8	94.4	94.1	93.7	93.3	92.9	92.5	92.1
85	95.6	95.3	94.9	94.5	94.1	93.7	93.3	92.9	92.6	92.2
86	95.7	95.3	94.9	94.5	94.1	93.8	93.4	93.0	92.6	92.2
87	95.7	95.3	94.9	94.6	94.2	93.8	93.4	93.0	92.7	92.3
88	95.7	95.4	95.0	94.6	94.2	93.8	93.5	93.1	92.7	92.4
89	95.8	95.4	95.0	94.6	94.3	93.9	93.5	93.1	92.8	92.4
90	95.8	95.4	95.0	94.7	94.3	93.9	93.6	93.2	92.8	92.5
91	95.8	95.5	95.1	94.7	94.3	94.0	93.6	93.2	92.9	92.5
92	95.9	95.5	95.1	94.7	94.4	94.0	93.6	93.3	92.9	92.6
93	95.9	95.5	95.1	94.8	94.4	94.1	93.7	93.3	93.0	92.6
94	95.9	95.5	95.2	94.8	94.5	94.1	93.7	93.4	93.0	92.7
95	95.9	95.6	95.2	94.8	94.5	94.1	93.8	93.4	93.1	92.7
96	96.0	95.6	95.2	94.9	94.5	94.2	93.8	93.5	93.1	92.8
97	96.0	95.6	95.3	94.9	94.6	94.2	93.9	93.5	93.2	92.8
98	96.0	95.7	95.3	95.0	94.6	94.2	93.9	93.5	93.2	92.9
99	96.0	95.7	95.3	95.0	94.6	94.3	93.9	93.6	93.2	92.9
100	96.1	95.7	95.4	95.0	94.7	94.3	94.0	93.6	93.3	92.9

表 5b（续）

t−t_w / t	2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9	3.0
15	79.4	78.5	77.5	76.6	75.7	74.7	73.8	72.9	72.0	71.0
16	80.0	79.1	78.2	77.3	76.4	75.5	74.6	73.7	72.8	71.9
17	80.5	79.7	78.8	77.9	77.0	76.1	75.2	74.4	73.5	72.6
18	81.1	80.2	79.3	78.5	77.6	76.8	75.9	75.1	74.2	73.4
19	81.5	80.7	79.9	79.0	78.2	77.4	76.5	75.7	74.9	74.1
20	82.0	81.2	80.4	79.5	78.7	77.9	77.1	76.3	75.5	74.7
21	82.4	81.6	80.8	80.0	79.2	78.4	77.7	76.9	76.1	75.3
22	82.8	82.1	81.3	80.5	79.7	78.9	78.2	77.4	76.6	75.9
23	83.2	82.5	81.7	80.9	80.2	79.4	78.7	77.9	77.2	76.4
24	83.6	82.8	82.1	81.3	80.6	79.9	79.1	78.4	77.7	76.9
25	83.9	83.2	82.5	81.7	81.0	80.3	79.6	78.9	78.1	77.4
26	84.3	83.5	82.8	82.1	81.4	80.7	80.0	79.3	78.6	77.9
27	84.6	83.9	83.2	82.5	81.8	81.1	80.4	79.7	79.0	78.3
28	84.9	84.2	83.5	82.8	82.1	81.4	80.8	80.1	79.4	78.7
29	85.1	84.5	83.8	83.1	82.5	81.8	81.1	80.5	79.8	79.1
30	85.4	84.7	84.1	83.4	82.8	82.1	81.5	80.8	80.2	79.5
31	85.7	85.0	84.4	83.7	83.1	82.4	81.8	81.1	80.5	79.9
32	85.9	85.3	84.6	84.0	83.4	82.7	82.1	81.5	80.8	80.2
33	86.1	85.5	84.9	84.3	83.6	83.0	82.4	81.8	81.2	80.6
34	86.4	85.7	85.1	84.5	83.9	83.3	82.7	82.1	81.5	80.9
35	86.6	86.0	85.4	84.8	84.1	83.5	82.9	82.4	81.8	81.2
36	86.8	86.2	85.6	85.0	84.4	83.8	83.2	82.6	82.0	81.4
37	87.0	86.4	85.8	85.2	84.6	84.0	83.5	82.9	82.3	81.7
38	87.2	86.6	86.0	85.4	84.8	84.3	83.7	83.1	82.6	82.0
39	87.3	86.8	86.2	85.6	85.1	84.5	83.9	83.4	82.8	82.2
40	87.5	87.0	86.4	85.8	85.3	84.7	84.1	83.6	83.0	82.5
41	87.7	87.1	86.6	86.0	85.5	84.9	84.4	83.8	83.3	82.7
42	87.8	87.3	86.7	86.2	85.6	85.1	84.6	84.0	83.5	82.9
43	88.0	87.5	86.9	86.4	85.8	85.3	84.8	84.2	83.7	83.2
44	88.2	87.6	87.1	86.5	86.0	85.5	84.9	84.4	83.9	83.4
45	88.3	87.8	87.2	86.7	86.2	85.7	85.1	84.6	84.1	83.6
46	88.4	87.9	87.4	86.9	86.3	85.8	85.3	84.8	84.3	83.8
47	88.6	88.1	87.5	87.0	86.5	86.0	85.5	85.0	84.5	84.0
48	88.7	88.2	87.7	87.2	86.7	86.1	85.6	85.1	84.6	84.1
49	88.8	88.3	87.8	87.3	86.8	86.3	85.8	85.3	84.8	84.3
50	89.0	88.4	87.9	87.4	86.9	86.5	86.0	85.5	85.0	84.5
51	89.1	88.6	88.1	87.6	87.1	86.6	86.1	85.6	85.1	84.7
52	89.2	88.7	88.2	87.7	87.2	86.7	86.3	85.8	85.3	84.8
53	89.3	88.8	88.3	87.8	87.4	86.9	86.4	85.9	85.4	85.0
54	89.4	88.9	88.4	88.0	87.5	87.0	86.5	86.1	85.6	85.1
55	89.5	89.0	88.6	88.1	87.6	87.1	86.7	86.2	85.7	85.3
56	89.6	89.1	88.7	88.2	87.7	87.3	86.8	86.3	85.9	85.4
57	89.7	89.2	88.8	88.3	87.8	87.4	86.9	86.5	86.0	85.6

表 5b（续）

$t-t_w$ / t	2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9	3.0
58	89.8	89.4	88.9	88.4	88.0	87.5	87.1	86.6	86.1	85.7
59	89.9	89.5	89.0	88.5	88.1	87.6	87.2	86.7	86.3	85.8
60	90.0	89.5	89.1	88.6	88.2	87.7	87.3	86.8	86.4	86.0
61	90.1	89.6	89.2	88.7	88.3	87.8	87.4	87.0	86.5	86.1
62	90.2	89.7	89.3	88.8	88.4	88.0	87.5	87.1	86.6	86.2
63	90.3	89.8	89.4	88.9	88.5	88.1	87.6	87.2	86.8	86.3
64	90.4	89.9	89.5	89.0	88.6	88.2	87.7	87.3	86.9	86.4
65	90.4	90.0	89.6	89.1	88.7	88.3	87.8	87.4	87.0	86.6
66	90.5	90.1	89.7	89.2	88.8	88.4	87.9	87.5	87.1	86.7
67	90.6	90.2	89.7	89.3	88.9	88.5	88.0	87.6	87.2	86.8
68	90.7	90.3	89.8	89.4	89.0	88.6	88.1	87.7	87.3	86.9
69	90.8	90.3	89.9	89.5	89.1	88.7	88.2	87.8	87.4	87.0
70	90.8	90.4	90.0	89.6	89.2	88.7	88.3	87.9	87.5	87.1
71	90.9	90.5	90.1	89.7	89.2	88.8	88.4	88.0	87.6	87.2
72	91.0	90.6	90.2	89.7	89.3	88.9	88.5	88.1	87.7	87.3
73	91.0	90.6	90.2	89.8	89.4	89.0	88.6	88.2	87.8	87.4
74	91.1	90.7	90.3	89.9	89.5	89.1	88.7	88.3	87.9	87.5
75	91.2	90.8	90.4	90.0	89.6	89.2	88.8	88.4	88.0	87.6
76	91.3	90.9	90.5	90.1	89.7	89.3	88.9	88.5	88.1	87.7
77	91.3	90.9	90.5	90.1	89.7	89.3	89.0	88.6	88.2	87.8
78	91.4	91.0	90.6	90.2	89.8	89.4	89.0	88.6	88.3	87.9
79	91.4	91.1	90.7	90.3	89.9	89.5	89.1	88.7	88.3	88.0
80	91.5	91.1	90.7	90.3	90.0	89.6	89.2	88.8	88.4	88.1
81	91.6	91.2	90.8	90.4	90.0	89.7	89.3	88.9	88.5	88.1
82	91.6	91.3	90.9	90.5	90.1	89.7	89.3	89.0	88.6	88.2
83	91.7	91.3	90.9	90.6	90.2	89.8	89.4	89.1	88.7	88.3
84	91.8	91.4	91.0	90.6	90.2	89.9	89.5	89.1	88.8	88.4
85	91.8	91.4	91.1	90.7	90.3	89.9	89.6	89.2	88.8	88.5
86	91.9	91.5	91.1	90.8	90.4	90.0	89.6	89.3	88.9	88.6
87	91.9	91.6	91.2	90.8	90.5	90.1	89.7	89.4	89.0	88.6
88	92.0	91.6	91.2	90.9	90.5	90.2	89.8	89.4	89.1	88.7
89	92.0	91.7	91.3	90.9	90.6	90.2	89.9	89.5	89.1	88.8
90	92.1	91.7	91.4	91.0	90.6	90.3	89.9	89.6	89.2	88.9
91	92.1	91.8	91.4	91.1	90.7	90.4	90.0	89.6	89.3	88.9
92	92.2	91.8	91.5	91.1	90.8	90.4	90.1	89.7	89.4	89.0
93	92.3	91.9	91.5	91.2	90.8	90.5	90.1	89.8	89.4	89.1
94	92.3	92.0	91.6	91.2	90.9	90.5	90.2	89.8	89.5	89.2
95	92.4	92.0	91.7	91.3	91.0	90.6	90.3	89.9	89.6	89.2
96	92.4	92.1	91.7	91.4	91.0	90.7	90.3	90.0	89.6	89.3
97	92.5	92.1	91.8	91.4	91.1	90.7	90.4	90.0	89.7	89.4
98	92.5	92.2	91.8	91.5	91.1	90.8	90.4	90.1	89.8	89.4
99	92.6	92.2	91.9	91.5	91.2	90.8	90.5	90.2	89.8	89.5
100	92.6	92.3	91.9	91.6	91.2	90.9	90.6	90.2	89.9	89.6

表 5b（续）

t−t_w \ t	3.1	3.2	3.3	3.4	3.5	3.6	3.7	3.8	3.9	4.0
15	70.1	69.2	68.3	67.4	66.5	65.6	64.7	63.8	62.9	62.1
16	71.0	70.1	69.2	68.3	67.5	66.6	65.7	64.9	64.0	63.1
17	71.8	70.9	70.1	69.2	68.4	67.5	66.7	65.8	65.0	64.2
18	72.5	71.7	70.9	70.0	69.2	68.4	67.6	66.7	65.9	65.1
19	73.2	72.4	71.6	70.8	70.0	69.2	68.4	67.6	66.8	66.0
20	73.9	73.1	72.3	71.5	70.7	70.0	69.2	68.4	67.6	66.9
21	74.5	73.8	73.0	72.2	71.5	70.7	69.9	69.2	68.4	67.7
22	75.1	74.4	73.6	72.9	72.1	71.4	70.6	69.9	69.2	68.4
23	75.7	74.9	74.2	73.5	72.8	72.0	71.3	70.6	69.9	69.1
24	76.2	75.5	74.8	74.1	73.3	72.6	71.9	71.2	70.5	69.8
25	76.7	76.0	75.3	74.6	73.9	73.2	72.5	71.8	71.2	70.5
26	77.2	76.5	75.8	75.1	74.4	73.8	73.1	72.4	71.7	71.1
27	77.7	77.0	76.3	75.6	75.0	74.3	73.6	73.0	72.3	71.7
28	78.1	77.4	76.8	76.1	75.4	74.8	74.1	73.5	72.8	72.2
29	78.5	77.8	77.2	76.5	75.9	75.3	74.6	74.0	73.4	72.7
30	78.9	78.2	77.6	77.0	76.3	75.7	75.1	74.5	73.3	73.2
31	79.3	78.6	78.0	77.4	76.8	76.1	75.5	74.9	74.3	73.7
32	79.6	79.0	78.4	77.8	77.1	76.5	75.9	75.3	74.7	74.1
33	79.9	79.3	78.7	78.1	77.5	76.9	76.3	75.7	75.2	74.6
34	80.3	79.7	79.1	78.5	77.9	77.3	76.7	76.1	75.6	75.0
35	80.6	80.0	79.4	78.8	78.2	77.7	77.1	76.5	75.9	75.4
36	80.9	80.3	79.7	79.1	78.6	78.0	77.4	76.9	76.3	75.7
37	81.2	80.6	80.0	79.4	78.9	78.3	77.8	77.2	76.7	76.1
38	81.4	80.9	80.3	79.7	79.2	78.6	78.1	77.5	77.0	76.4
39	81.7	81.1	80.6	80.0	79.5	78.9	78.4	77.9	77.3	76.8
40	81.9	81.4	80.8	80.3	79.8	79.2	78.7	78.2	77.6	77.1
41	82.2	81.6	81.1	80.6	80.0	79.5	79.0	78.4	77.9	77.4
42	82.4	81.9	81.3	80.8	80.3	79.8	79.2	78.7	78.2	77.7
43	82.6	82.1	81.6	81.1	80.5	80.0	79.5	79.0	78.5	78.0
44	82.8	82.3	81.8	81.3	80.8	80.3	79.8	79.3	78.8	78.2
45	83.1	82.5	82.0	81.5	81.0	80.5	80.0	79.5	79.0	78.5
46	83.3	82.8	82.2	81.7	81.2	80.7	80.2	79.8	79.3	78.8
47	83.5	83.0	82.5	82.0	81.5	81.0	80.5	80.0	79.5	79.0
48	83.6	83.1	82.7	82.2	81.7	81.2	80.7	80.2	79.7	79.3
49	83.8	83.3	82.8	82.4	81.9	81.4	80.9	80.4	80.0	79.5
50	84.0	83.5	83.0	82.6	82.1	81.6	81.1	80.6	80.2	79.7
51	84.2	83.7	83.2	82.7	82.3	81.8	81.3	80.9	80.4	79.9
52	84.3	83.9	83.4	82.9	82.4	82.0	81.5	81.1	80.6	80.1
53	84.5	84.0	83.6	83.1	82.6	82.2	81.7	81.2	80.8	80.3
54	84.7	84.2	83.7	83.3	82.8	82.3	81.9	81.4	81.0	80.5
55	84.8	84.3	83.9	83.4	83.0	82.5	82.1	81.6	81.2	80.7
56	85.0	84.5	84.0	83.6	83.1	82.7	82.2	81.8	81.4	80.9
57	85.1	84.6	84.2	83.7	83.3	82.9	82.4	82.0	81.5	81.1

表 5b（续）

$t-t_w$ t	3.1	3.2	3.3	3.4	3.5	3.6	3.7	3.8	3.9	4.0
58	85.2	84.8	84.3	83.9	83.5	83.0	82.6	82.1	81.7	81.3
59	85.4	84.9	84.5	84.1	83.6	83.2	82.7	82.3	81.9	81.4
60	85.5	85.1	84.6	84.2	83.8	83.3	82.9	82.5	82.0	81.6
61	85.6	85.2	84.8	84.3	83.9	83.5	83.0	82.6	82.2	81.8
62	85.8	85.3	84.9	84.5	84.1	83.6	83.2	82.8	82.4	81.9
63	85.9	85.5	85.0	84.6	84.2	83.8	83.3	82.9	82.5	82.1
64	86.0	85.6	85.2	84.7	84.3	83.9	83.5	83.1	82.7	82.2
65	86.1	85.7	85.3	84.9	84.5	84.0	83.6	83.2	82.8	82.4
66	86.3	85.8	85.4	85.0	84.6	84.2	83.8	83.4	82.9	82.5
67	86.4	86.0	85.5	85.1	84.7	84.3	83.9	83.5	83.1	82.7
68	86.5	86.1	85.7	85.2	84.8	84.4	84.0	83.6	83.2	82.8
69	86.6	86.2	85.8	85.4	85.0	84.6	84.2	83.8	83.4	83.0
70	86.7	86.3	85.9	85.5	85.1	84.7	84.3	83.9	83.5	83.1
71	86.8	86.4	86.0	85.6	85.2	84.8	84.4	84.0	83.6	83.2
72	86.9	86.5	86.1	85.7	85.3	84.9	84.5	84.1	83.8	83.4
73	87.0	86.6	86.2	85.8	85.4	85.0	84.7	84.3	83.9	83.5
74	87.1	86.7	86.3	85.9	85.5	85.2	84.8	84.4	84.0	83.6
75	87.2	86.8	86.4	86.0	85.7	85.3	84.9	84.5	84.1	83.7
76	87.3	86.9	86.5	86.1	85.8	85.4	85.0	84.6	84.2	83.9
77	87.4	87.0	86.6	86.2	85.9	85.5	85.1	84.7	84.4	84.0
78	87.5	87.1	86.7	86.3	86.0	85.6	85.2	84.8	84.5	84.1
79	87.6	87.2	86.8	86.4	86.1	85.7	85.3	85.0	84.6	84.2
80	87.7	87.3	86.9	86.5	86.2	85.8	85.4	85.1	84.7	84.3
81	87.8	87.4	87.0	86.6	86.3	85.9	85.5	85.2	84.8	84.4
82	87.9	87.5	87.1	86.7	86.4	86.0	85.6	85.3	84.9	84.6
83	87.9	87.6	87.2	86.8	86.5	86.1	85.7	85.4	85.0	84.7
84	88.0	87.7	87.3	86.9	86.6	86.2	85.8	85.5	85.1	84.8
85	88.1	87.7	87.4	87.0	86.7	86.3	85.9	85.6	85.2	84.9
86	88.2	87.8	87.5	87.1	86.7	86.4	86.0	85.7	85.3	85.0
87	88.3	87.9	87.6	87.2	86.8	86.5	86.1	85.8	85.4	85.1
88	88.4	88.0	87.6	87.3	86.9	86.6	86.2	85.9	85.5	85.2
89	88.4	88.1	87.7	87.4	87.0	86.7	86.3	86.0	85.6	85.3
90	88.5	88.2	87.8	87.5	87.1	86.8	86.4	86.1	85.7	85.4
91	88.6	88.2	87.9	87.5	87.2	86.8	86.5	86.2	85.8	85.5
92	88.7	88.3	88.0	87.6	87.3	86.9	86.6	86.2	85.9	85.6
93	88.7	88.4	88.0	87.7	87.4	87.0	86.7	86.3	86.0	85.7
94	88.8	88.5	88.1	87.8	87.4	87.1	86.8	86.4	86.1	85.8
95	88.9	88.5	88.2	87.9	87.5	87.2	86.8	86.5	86.2	85.8
96	89.0	88.6	88.3	87.9	87.6	87.3	86.9	86.6	86.3	85.9
97	89.0	88.7	88.4	88.0	87.7	87.4	87.0	86.7	86.4	86.0
98	89.1	88.8	88.4	88.1	87.8	87.4	87.1	86.8	86.4	86.1
99	89.2	88.8	88.5	88.2	87.8	87.5	87.2	86.9	86.5	86.2
100	89.2	88.9	88.6	88.2	87.9	87.6	87.3	86.9	86.6	86.3

表 5b（续）

t-tw / t	4.1	4.2	4.3	4.4	4.5	4.6	4.7	4.8	4.9	5.0
15	61.2	60.3	59.4	58.5	57.7	56.8	55.9	55.1	54.2	53.4
16	62.3	61.4	60.6	59.7	58.9	58.0	57.2	56.4	55.5	54.7
17	63.3	62.5	61.7	60.8	60.0	59.2	58.4	57.6	56.8	56.0
18	64.3	63.5	62.7	61.9	61.1	60.3	59.5	58.7	57.9	57.1
19	65.2	64.4	63.7	62.9	62.1	61.3	60.6	59.8	59.0	58.3
20	66.1	65.3	64.6	63.8	63.1	62.3	61.6	60.8	60.1	59.3
21	66.9	66.2	65.4	64.7	64.0	63.2	62.5	61.8	61.0	60.3
22	67.7	67.0	66.2	65.5	64.8	64.1	63.4	62.7	62.0	61.2
23	68.4	67.7	67.0	66.3	65.6	64.9	64.2	63.5	62.8	62.1
24	69.1	68.4	67.7	67.1	66.4	65.7	65.0	64.3	63.6	63.0
25	69.8	69.1	68.4	67.8	67.1	66.4	65.7	65.1	64.4	63.8
26	70.4	69.7	69.1	68.4	67.8	67.1	66.5	65.8	65.2	64.5
27	71.0	70.3	69.7	69.0	68.4	67.8	67.1	66.5	65.9	65.2
28	71.6	70.9	70.3	69.6	69.0	68.4	67.8	67.1	66.5	65.9
29	72.1	71.5	70.8	70.2	69.6	69.0	68.4	67.8	67.1	66.5
30	72.6	72.0	71.4	70.8	70.2	69.5	68.9	68.3	67.7	67.1
31	73.1	72.5	71.9	71.3	70.7	70.1	69.5	68.9	68.3	67.7
32	73.5	72.9	72.4	71.8	71.2	70.6	70.0	69.4	68.9	68.3
33	74.0	73.4	72.8	72.2	71.7	71.1	70.5	69.9	69.4	68.8
34	74.4	73.8	73.3	72.7	72.1	71.6	71.0	70.4	69.9	69.3
35	74.8	74.2	73.7	73.1	72.6	72.0	71.4	70.9	70.3	69.8
36	75.2	74.6	74.1	73.5	73.0	72.4	71.9	71.3	70.8	70.3
37	75.6	75.0	74.5	73.9	73.4	72.8	72.3	71.8	71.2	70.7
38	75.9	75.4	74.8	74.3	73.8	73.2	72.7	72.2	71.6	71.1
39	76.2	75.7	75.2	74.7	74.1	73.6	73.1	72.6	72.0	71.5
40	76.6	76.0	75.5	75.0	74.5	74.0	73.4	72.9	72.4	71.9
41	76.9	76.4	75.8	75.3	74.8	74.3	73.8	73.3	72.8	72.3
42	77.2	76.7	76.2	75.7	75.1	74.6	74.1	73.6	73.1	72.6
43	77.5	77.0	76.5	76.0	75.5	75.0	74.5	74.0	73.5	73.0
44	77.7	77.3	76.8	76.3	75.8	75.3	74.8	74.3	73.8	73.3
45	78.0	77.5	77.0	76.5	76.1	75.6	75.1	74.6	74.1	73.7
46	78.3	77.8	77.3	76.8	76.3	75.9	75.4	74.9	74.4	74.0
47	78.5	78.0	77.6	77.1	76.6	76.1	75.7	75.2	74.7	74.3
48	78.8	78.3	77.8	77.3	76.9	76.4	75.9	75.5	75.0	74.6
49	79.0	78.5	78.1	77.6	77.1	76.7	76.2	75.7	75.3	74.8
50	79.2	78.8	78.3	77.8	77.4	76.9	76.5	76.0	75.6	75.1
51	79.5	79.0	78.5	78.1	77.6	77.2	76.7	76.3	75.8	75.4
52	79.7	79.2	78.8	78.3	77.9	77.4	77.0	76.5	76.1	75.6
53	79.9	79.4	79.0	78.5	78.1	77.6	77.2	76.7	76.3	75.9
54	80.1	79.6	79.2	78.7	78.3	77.9	77.4	77.0	76.5	76.1
55	80.3	79.8	79.4	79.0	78.5	78.1	77.6	77.2	76.8	76.3
56	80.5	80.0	79.6	79.2	78.7	78.3	77.9	77.4	77.0	76.6
57	80.7	80.2	79.8	79.4	78.9	78.5	78.1	77.6	77.2	76.8

表 5b（续）

$t-t_w$ \ t	4.1	4.2	4.3	4.4	4.5	4.6	4.7	4.8	4.9	5.0
58	80.8	80.4	80.0	79.5	79.1	78.7	78.3	77.8	77.4	77.0
59	81.0	80.6	80.2	79.7	79.3	78.9	78.5	78.1	77.6	77.2
60	81.2	80.8	80.3	79.9	79.5	79.1	78.7	78.3	77.8	77.4
61	81.4	80.9	80.5	80.1	79.7	79.3	78.9	78.4	78.0	77.6
62	81.5	81.1	80.7	80.3	79.9	79.4	79.0	78.6	78.2	77.8
63	81.7	81.3	80.9	80.4	80.0	79.6	79.2	78.8	78.4	78.0
64	81.8	81.4	81.0	80.6	80.2	79.8	79.4	79.0	78.6	78.2
65	82.0	81.6	81.2	80.8	80.4	80.0	79.6	79.2	78.8	78.4
66	82.1	81.7	81.3	80.9	80.5	80.1	79.7	79.3	79.0	78.6
67	82.3	81.9	81.5	81.1	80.7	80.3	79.9	79.5	79.1	78.7
68	82.4	82.0	81.6	81.2	80.8	80.5	80.1	79.7	79.3	78.9
69	82.6	82.2	81.8	81.4	81.0	80.6	80.2	79.8	79.5	79.1
70	82.7	82.3	81.9	81.5	81.2	80.8	80.4	80.0	79.6	79.2
71	82.8	82.5	82.1	81.7	81.3	80.9	80.5	80.2	79.8	79.4
72	83.0	82.6	82.2	81.8	81.4	81.1	80.7	80.3	79.9	79.6
73	83.1	82.7	82.3	82.0	81.6	81.2	80.8	80.5	80.1	79.7
74	83.2	82.9	82.5	82.1	81.7	81.4	81.0	80.6	80.2	79.9
75	83.4	83.0	82.6	82.2	81.9	81.5	81.1	80.8	80.4	80.0
76	83.5	83.1	82.7	82.4	82.0	81.6	81.3	80.9	80.5	80.2
77	83.6	83.2	82.9	82.5	82.1	81.8	81.4	81.0	80.7	80.3
78	83.7	83.4	83.0	82.6	82.3	81.9	81.5	81.2	80.8	80.5
79	83.8	83.5	83.1	82.8	82.4	82.0	81.7	81.3	80.9	80.6
80	84.0	83.6	83.2	82.9	82.5	82.2	81.8	81.4	81.1	80.7
81	84.1	83.7	83.4	83.0	82.6	82.3	81.9	81.6	81.2	80.9
82	84.2	83.8	83.5	83.1	82.8	82.4	82.1	81.7	81.3	81.0
83	84.3	83.9	83.6	83.2	82.9	82.5	82.2	81.8	81.5	81.1
84	84.4	84.1	83.7	83.3	83.0	82.6	82.3	82.0	81.6	81.3
85	84.5	84.2	83.8	83.5	83.1	82.8	82.4	82.1	81.7	81.4
86	84.6	84.3	83.9	83.6	83.2	82.9	82.5	82.2	81.9	81.5
87	84.7	84.4	84.0	83.7	83.3	83.0	82.7	82.3	82.0	81.6
88	84.8	84.5	84.1	83.8	83.5	83.1	82.8	82.4	82.1	81.8
89	84.9	84.6	84.2	83.9	83.6	83.2	82.9	82.5	82.2	81.9
90	85.0	84.7	84.4	84.0	83.7	83.3	83.0	82.7	82.3	82.0
91	85.1	84.8	84.5	84.1	83.8	83.4	83.1	82.8	82.4	82.1
92	85.2	84.9	84.6	84.2	83.9	83.6	83.2	82.9	82.6	82.2
93	85.3	85.0	84.7	84.3	84.0	83.7	83.3	83.0	82.7	82.3
94	85.4	85.1	84.8	84.4	84.1	83.8	83.4	83.1	82.8	82.5
95	85.5	85.2	84.9	84.5	84.2	83.9	83.5	83.2	82.9	82.6
96	85.6	85.3	84.9	84.6	84.3	84.0	83.6	83.3	83.0	82.7
97	85.7	85.4	85.0	84.7	84.4	84.1	83.8	83.4	83.1	82.8
98	85.8	85.5	85.1	84.8	84.5	84.2	83.9	83.5	83.2	82.9
99	85.9	85.6	85.2	84.9	84.6	84.3	84.0	83.6	83.3	83.0
100	86.0	85.6	85.3	85.0	84.7	84.4	84.1	83.7	83.4	83.1

表 5b（续）

t ＼ $t-t_w$	5.2	5.4	5.6	5.8	6.0	6.2	6.4	6.6	6.8	7.0
15	51.6	50.0	48.3	46.6	44.9	43.3	41.6	40.0	38.4	36.8
16	53.0	51.4	49.8	48.1	46.5	44.9	43.3	41.8	40.2	38.6
17	54.4	52.8	51.2	49.6	48.0	46.5	44.9	43.4	41.9	40.4
18	55.6	54.0	52.5	51.0	49.5	47.9	46.4	45.0	43.5	42.0
19	56.7	55.2	53.7	52.3	50.8	49.3	47.9	46.4	45.0	43.6
20	57.8	56.4	54.9	53.5	52.0	50.6	49.2	47.8	46.4	45.0
21	58.9	57.4	56.0	54.6	53.2	51.8	50.4	49.1	47.7	46.4
22	59.8	58.4	57.1	55.7	54.3	53.0	51.6	50.3	49.0	47.6
23	60.8	59.4	58.0	56.7	55.4	54.1	52.7	51.4	50.1	48.9
24	61.6	60.3	59.0	57.7	56.4	55.1	53.8	52.5	51.3	50.0
25	62.5	61.1	59.9	58.6	57.3	56.0	54.8	53.5	52.3	51.1
26	63.2	62.0	60.7	59.4	58.2	57.0	55.7	54.5	53.3	52.1
27	64.0	62.7	61.5	60.3	59.0	57.8	56.6	55.4	54.3	53.1
28	64.7	63.4	62.2	61.0	59.8	58.6	57.5	56.3	55.1	54.0
29	65.3	64.1	62.9	61.8	60.6	59.4	58.3	57.1	56.0	54.9
30	66.0	64.8	63.6	62.5	61.3	60.2	59.0	57.9	56.8	55.7
31	66.6	65.4	64.3	63.1	62.0	60.9	59.8	58.7	57.6	56.5
32	67.1	66.0	64.9	63.8	62.7	61.6	60.5	59.4	58.3	57.2
33	67.7	66.6	65.5	64.4	63.3	62.2	61.1	60.1	59.0	58.0
34	68.2	67.1	66.0	64.9	63.9	62.8	61.8	60.7	59.7	58.6
35	68.7	67.6	66.6	65.5	64.4	63.4	62.4	61.3	60.3	59.3
36	69.2	68.1	67.1	66.0	65.0	64.0	62.9	61.9	60.9	59.9
37	69.6	68.6	67.6	66.5	65.5	64.5	63.5	62.5	61.5	60.5
38	70.1	69.0	68.0	67.0	66.0	65.0	64.0	63.0	62.1	61.1
39	70.5	69.5	68.5	67.5	66.5	65.5	64.5	63.5	62.6	61.6
40	70.9	69.9	68.9	67.9	66.9	66.0	65.0	64.0	63.1	62.2
41	71.3	70.3	69.3	68.3	67.4	66.4	65.5	64.5	63.6	62.7
42	71.7	70.7	69.7	68.8	67.8	66.9	65.9	65.0	64.1	63.1
43	72.0	71.1	70.1	69.2	68.2	67.3	66.3	65.4	64.5	63.6
44	72.4	71.4	70.5	69.5	68.6	67.7	66.8	65.9	64.9	64.1
45	72.7	71.8	70.8	69.9	69.0	68.1	67.2	66.3	65.4	64.5
46	73.0	72.1	71.2	70.3	69.3	68.4	67.5	66.7	65.8	64.9
47	73.3	72.4	71.5	70.6	69.7	68.8	67.9	67.0	66.2	65.3
48	73.6	72.7	71.8	70.9	70.0	69.2	68.3	67.4	66.5	65.7
49	73.9	73.0	72.1	71.2	70.4	69.5	68.6	67.8	66.9	66.1
50	74.2	73.3	72.4	71.6	70.7	69.8	69.0	68.1	67.3	66.4
51	74.5	73.6	72.7	71.9	71.0	70.1	69.3	68.4	67.6	66.8
52	74.7	73.9	73.0	72.1	71.3	70.4	69.6	68.8	67.9	67.1
53	75.0	74.1	73.3	72.4	71.6	70.7	69.9	69.1	68.3	67.5
54	75.2	74.4	73.5	72.7	71.9	71.0	70.2	69.4	68.6	67.8
55	75.5	74.6	73.8	73.0	72.1	71.3	70.5	69.7	68.9	68.1
56	75.7	74.9	74.1	73.2	72.4	71.6	70.8	70.0	69.2	68.4
57	76.0	75.1	74.3	73.5	72.7	71.9	71.1	70.3	69.5	68.7

表 5b（续）

$t-t_w$ / t	5.2	5.4	5.6	5.8	6.0	6.2	6.4	6.6	6.8	7.0
58	76.2	75.4	74.5	73.7	72.9	72.1	71.3	70.5	69.7	69.0
59	76.4	75.6	74.8	74.0	73.2	72.4	71.6	70.8	70.0	69.2
60	76.6	75.8	75.0	74.2	73.4	72.6	71.8	71.1	70.3	69.5
61	76.8	76.0	75.2	74.4	73.6	72.9	72.1	71.3	70.5	69.8
62	77.0	76.2	75.4	74.6	73.9	73.1	72.3	71.6	70.8	70.0
63	77.2	76.4	75.6	74.9	74.1	73.3	72.6	71.8	71.0	70.3
64	77.4	76.6	75.8	75.1	74.3	73.5	72.8	72.0	71.3	70.5
65	77.6	76.8	76.0	75.3	74.5	73.8	73.0	72.3	71.5	70.8
66	77.8	77.0	76.2	75.5	74.7	74.0	73.2	72.5	71.8	71.0
67	78.0	77.2	76.4	75.7	74.9	74.2	73.4	72.7	72.0	71.3
68	78.1	77.4	76.6	75.9	75.1	74.4	73.7	72.9	72.2	71.5
69	78.3	77.6	76.8	76.1	75.3	74.6	73.9	73.1	72.4	71.7
70	78.5	77.7	77.0	76.2	75.5	74.8	74.1	73.3	72.6	71.9
71	78.6	77.9	77.2	76.4	75.7	75.0	74.3	73.5	72.8	72.1
72	78.8	78.1	77.3	76.6	75.9	75.2	74.5	73.7	73.0	72.3
73	79.0	78.2	77.5	76.8	76.1	75.4	74.6	73.9	73.2	72.5
74	79.1	78.4	77.7	77.0	76.2	75.5	74.8	74.1	73.4	72.7
75	79.3	78.6	77.8	77.1	76.4	75.7	75.0	74.3	73.6	72.9
76	79.4	78.7	78.0	77.3	76.6	75.9	75.2	74.5	73.8	73.1
77	79.6	78.9	78.2	77.5	76.8	76.1	75.4	74.7	74.0	73.3
78	79.7	79.0	78.3	77.6	76.9	76.2	75.5	74.9	74.2	73.5
79	79.9	79.2	78.5	77.8	77.1	76.4	75.7	75.0	74.4	73.7
80	80.0	79.3	78.6	77.9	77.2	76.6	75.9	75.2	74.5	73.9
81	80.2	79.5	78.8	78.1	77.4	76.7	76.1	75.4	74.7	74.1
82	80.3	79.6	78.9	78.2	77.6	76.9	76.2	75.6	74.9	74.2
83	80.4	79.7	79.1	78.4	77.7	77.0	76.4	75.7	75.1	74.4
84	80.6	79.9	79.2	78.5	77.9	77.2	76.5	75.9	75.2	74.6
85	80.7	80.0	79.3	78.7	78.0	77.4	76.7	76.0	75.4	74.8
86	80.8	80.2	79.5	78.8	78.2	77.5	76.9	76.2	75.6	74.9
87	81.0	80.3	79.6	79.0	78.3	77.7	77.0	76.4	75.7	75.1
88	81.1	80.4	79.8	79.1	78.4	77.8	77.2	76.5	75.9	75.2
89	81.2	80.5	79.9	79.2	78.6	77.9	77.3	76.7	76.0	75.4
90	81.3	80.7	80.0	79.4	78.7	78.1	77.4	76.8	76.2	75.6
91	81.5	80.8	80.2	79.5	78.9	78.2	77.6	77.0	76.3	75.7
92	81.6	80.9	80.3	79.6	79.0	78.4	77.7	77.1	76.5	75.9
93	81.7	81.0	80.4	79.8	79.1	78.5	77.9	77.3	76.6	76.0
94	81.8	81.2	80.5	79.9	79.3	78.6	78.0	77.4	76.8	76.2
95	81.9	81.3	80.7	80.0	79.4	78.8	78.2	77.5	76.9	76.3
96	82.0	81.4	80.8	80.1	79.5	78.9	78.3	77.7	77.1	76.5
97	82.2	81.5	80.9	80.3	79.6	79.0	78.4	77.8	77.2	76.6
98	82.3	81.6	81.0	80.4	79.8	79.2	78.6	77.9	77.3	76.7
99	82.4	81.8	81.1	80.5	79.9	79.3	78.7	78.1	77.5	76.9
100	82.5	81.9	81.2	80.6	80.0	79.4	78.8	78.2	77.6	77.0

表 5b（续）

$t-t_w$ / t	7.2	7.4	7.6	7.8	8.0	8.2	8.4	8.6	8.8	9.0
15	35.2	33.6	32.0	30.5	28.9	27.4	25.8	24.3	22.8	21.3
16	37.1	35.6	34.0	32.5	31.0	29.5	28.0	26.5	25.1	23.6
17	38.9	37.4	35.9	34.4	33.0	31.5	30.1	28.7	27.2	25.8
18	40.6	39.1	37.7	36.2	34.8	33.4	32.0	30.6	29.3	27.9
19	42.1	40.7	39.3	37.9	36.6	35.2	33.8	32.5	31.2	29.8
20	43.6	42.3	40.9	39.5	38.2	36.9	35.6	34.2	32.9	31.6
21	45.0	43.7	42.4	41.1	39.7	38.5	37.2	35.9	34.6	33.4
22	46.3	45.0	43.8	42.5	41.2	39.9	38.7	37.4	36.2	35.0
23	47.6	46.3	45.1	43.8	42.6	41.3	40.1	38.9	37.7	36.5
24	48.8	47.5	46.3	45.1	43.9	42.7	41.5	40.3	39.1	38.0
25	49.9	48.7	47.5	46.3	45.1	43.9	42.8	41.6	40.5	39.3
26	50.9	49.7	48.6	47.4	46.2	45.1	44.0	42.8	41.7	40.6
27	51.9	50.8	49.6	48.5	47.3	46.2	45.1	44.0	42.9	41.8
28	52.9	51.7	50.6	49.5	48.4	47.3	46.2	45.1	44.0	43.0
29	53.8	52.6	51.5	50.5	49.4	48.3	47.2	46.2	45.1	44.1
30	54.6	53.5	52.4	51.4	50.3	49.2	48.2	47.2	46.1	45.1
31	55.4	54.3	53.3	52.2	51.2	50.2	49.1	48.1	47.1	46.1
32	56.2	55.1	54.1	53.1	52.0	51.0	50.0	49.0	48.0	47.0
33	56.9	55.9	54.9	53.9	52.8	51.8	50.9	49.9	48.9	47.9
34	57.6	56.6	55.6	54.6	53.6	52.6	51.7	50.7	49.7	48.8
35	58.3	57.3	56.3	55.3	54.3	53.4	52.4	51.5	50.5	49.6
36	58.9	57.9	57.0	56.0	55.0	54.1	53.1	52.2	51.3	50.4
37	59.5	58.6	57.6	56.7	55.7	54.8	53.8	52.9	52.0	51.1
38	60.1	59.2	58.2	57.3	56.4	55.4	54.5	53.6	52.7	51.8
39	60.7	59.7	58.8	57.9	57.0	56.1	55.2	54.3	53.4	52.5
40	61.2	60.3	59.4	58.5	57.6	56.7	55.8	54.9	54.0	53.1
41	61.7	60.8	59.9	59.0	58.1	57.2	56.4	55.5	54.6	53.8
42	62.2	61.3	60.4	59.5	58.7	57.8	56.9	56.1	55.2	54.4
43	62.7	61.8	60.9	60.1	59.2	58.3	57.5	56.6	55.8	54.9
44	63.2	62.3	61.4	60.5	59.7	58.8	58.0	57.1	56.3	55.5
45	63.6	62.7	61.9	61.0	60.2	59.3	58.5	57.7	56.8	56.0
46	64.0	63.2	62.3	61.5	60.6	59.8	59.0	58.2	57.3	56.5
47	64.4	63.6	62.8	61.9	61.1	60.3	59.4	58.6	57.8	57.0
48	64.8	64.0	63.2	62.3	61.5	60.7	59.9	59.1	58.3	57.5
49	65.2	64.4	63.6	62.8	61.9	61.1	60.3	59.5	58.7	58.0
50	65.6	64.8	64.0	63.1	62.3	61.5	60.8	60.0	59.2	58.4
51	66.0	65.1	64.3	63.5	62.7	61.9	61.2	60.4	59.6	58.8
52	66.3	65.5	64.7	63.9	63.1	62.3	61.6	60.8	60.0	59.3
53	66.6	65.8	65.1	64.3	63.5	62.7	61.9	61.2	60.4	59.7
54	67.0	66.2	65.4	64.6	63.8	63.1	62.3	61.6	60.8	60.1
55	67.3	66.5	65.7	65.0	64.2	63.4	62.7	61.9	61.2	60.4
56	67.6	66.8	66.1	65.3	64.5	63.8	63.0	62.3	61.5	60.8
57	67.9	67.1	66.4	65.6	64.9	64.1	63.4	62.6	61.9	61.2

表 5b（续）

t\t−t_w	7.2	7.4	7.6	7.8	8.0	8.2	8.4	8.6	8.8	9.0
58	68.2	67.4	66.7	65.9	65.2	64.4	63.7	63.0	62.2	61.5
59	68.5	67.7	67.0	66.2	65.5	64.7	64.0	63.3	62.6	61.9
60	68.8	68.0	67.3	66.5	65.8	65.1	64.3	63.6	62.9	62.2
61	69.0	68.3	67.5	66.8	66.1	65.4	64.6	63.9	63.2	62.5
62	69.3	68.6	67.8	67.1	66.4	65.7	64.9	64.2	63.5	62.8
63	69.6	68.8	68.1	67.4	66.7	65.9	65.2	64.5	63.8	63.1
64	69.8	69.1	68.4	67.6	66.9	66.2	65.5	64.8	64.1	63.4
65	70.1	69.3	68.6	67.9	67.2	66.5	65.8	65.1	64.4	63.7
66	70.3	69.6	68.9	68.2	67.5	66.8	66.1	65.4	64.7	64.0
67	70.5	69.8	69.1	68.4	67.7	67.0	66.3	65.7	65.0	64.3
68	70.8	70.1	69.4	68.7	68.0	67.3	66.6	65.9	65.2	64.6
69	71.0	70.3	69.6	68.9	68.2	67.5	66.9	66.2	65.5	64.8
70	71.2	70.5	69.8	69.1	68.5	67.8	67.1	66.4	65.8	65.1
71	71.4	70.7	70.1	69.4	68.7	68.0	67.3	66.7	66.0	65.4
72	71.6	71.0	70.3	69.6	68.9	68.3	67.6	66.9	66.3	65.6
73	71.9	71.2	70.5	69.8	69.1	68.5	67.8	67.2	66.5	65.9
74	72.1	71.4	70.7	70.0	69.4	68.7	68.1	67.4	66.8	66.1
75	72.3	71.6	70.9	70.3	69.6	68.9	68.3	67.6	67.0	66.4
76	72.5	71.8	71.1	70.5	69.8	69.2	68.5	67.9	67.2	66.6
77	72.7	72.0	71.3	70.7	70.0	69.4	68.7	68.1	67.5	66.8
78	72.8	72.2	71.5	70.9	70.2	69.6	68.9	68.3	67.7	67.0
79	73.0	72.4	71.7	71.1	70.4	69.8	69.2	68.5	67.9	67.3
80	73.2	72.6	71.9	71.3	70.6	70.0	69.4	68.7	68.1	67.5
81	73.4	72.8	72.1	71.5	70.8	70.2	69.6	68.9	68.3	67.7
82	73.6	72.9	72.3	71.7	71.0	70.4	69.8	69.2	68.5	67.9
83	73.8	73.1	72.5	71.8	71.2	70.6	70.0	69.4	68.7	68.1
84	73.9	73.3	72.7	72.0	71.4	70.8	70.2	69.6	68.9	68.3
85	74.1	73.5	72.8	72.2	71.6	71.0	70.4	69.8	69.1	68.5
86	74.3	73.7	73.0	72.4	71.8	71.2	70.6	69.9	69.3	68.7
87	74.4	73.8	73.2	72.6	72.0	71.4	70.7	70.1	69.5	68.9
88	74.6	74.0	73.4	72.8	72.1	71.5	70.9	70.3	69.7	69.1
89	74.8	74.2	73.5	72.9	72.3	71.7	71.1	70.5	69.9	69.3
90	74.9	74.3	73.7	73.1	72.5	71.9	71.3	70.7	70.1	69.5
91	75.1	74.5	73.9	73.3	72.7	72.1	71.5	70.9	70.3	69.7
92	75.3	74.6	74.0	73.4	72.8	72.2	71.6	71.1	70.5	69.9
93	75.4	74.8	74.2	73.6	73.0	72.4	71.8	71.2	70.7	70.1
94	75.6	75.0	74.4	73.8	73.2	72.6	72.0	71.4	70.8	70.3
95	75.7	75.1	74.5	73.9	73.3	72.7	72.2	71.6	71.0	70.4
96	75.9	75.3	74.7	74.1	73.5	72.9	72.3	71.8	71.2	70.6
97	76.0	75.4	74.8	74.2	73.7	73.1	72.5	71.9	71.4	70.8
98	76.2	75.6	75.0	74.4	73.8	73.2	72.7	72.1	71.5	71.0
99	76.3	75.7	75.1	74.5	74.0	73.4	72.8	72.3	71.7	71.1
100	76.4	75.9	75.3	74.7	74.1	73.5	73.0	72.4	71.9	71.3

表 5b（续）

$t-t_w$ t	9.2	9.4	9.6	9.8	10.0	10.2	10.4	10.6	10.8	11.0
15	19.8	18.3	16.8	15.3	13.9	12.4	10.9	9.5	8.1	6.7
16	22.2	20.7	19.3	17.9	16.4	15.0	13.6	12.2	10.9	9.5
17	24.4	23.0	21.6	20.2	18.9	17.5	16.2	14.8	13.5	12.1
18	26.5	25.2	23.8	22.5	21.1	19.8	18.5	17.2	15.9	14.6
19	28.5	27.2	25.9	24.6	23.3	22.0	20.7	19.5	18.2	17.0
20	30.4	29.1	27.8	26.6	25.3	24.1	22.8	21.6	20.4	19.2
21	32.1	30.9	29.6	28.4	27.2	26.0	24.8	23.6	22.4	21.2
22	33.8	32.6	31.4	30.2	29.0	27.8	26.6	25.5	24.3	23.2
23	35.3	34.1	33.0	31.8	30.7	29.5	28.4	27.2	26.1	25.0
24	36.8	35.6	34.5	33.4	32.2	31.1	30.0	28.9	27.8	26.7
25	38.2	37.1	35.9	34.8	33.7	32.6	31.6	30.5	29.4	28.4
26	39.5	38.4	37.3	36.2	35.2	34.1	33.0	32.0	30.9	29.9
27	40.7	39.7	38.6	37.5	36.5	35.4	34.4	33.4	32.4	31.4
28	41.9	40.9	39.8	38.8	37.8	36.7	35.7	34.7	33.7	32.7
29	43.0	42.0	41.0	40.0	39.0	38.0	37.0	36.0	35.0	34.0
30	44.1	43.1	42.1	41.1	40.1	39.1	38.2	37.2	36.2	35.3
31	45.1	44.1	43.1	42.1	41.2	40.2	39.3	38.3	37.4	36.5
32	46.1	45.1	44.1	43.2	42.2	41.3	40.3	39.4	38.5	37.6
33	47.0	46.0	45.1	44.1	43.2	42.3	41.3	40.4	39.5	38.6
34	47.8	46.9	46.0	45.0	44.1	43.2	42.3	41.4	40.5	39.6
35	48.7	47.7	46.8	45.9	45.0	44.1	43.2	42.3	41.5	40.6
36	49.4	48.5	47.6	46.7	45.9	45.0	44.1	43.2	42.4	41.5
37	50.2	49.3	48.4	47.5	46.7	45.8	44.9	44.1	43.2	42.4
38	50.9	50.0	49.2	48.3	47.4	46.6	45.7	44.9	44.1	43.2
39	51.6	50.7	49.9	49.0	48.2	47.3	46.5	45.7	44.9	44.0
40	52.3	51.4	50.6	49.7	48.9	48.1	47.2	46.4	45.6	44.8
41	52.9	52.1	51.2	50.4	49.6	48.8	47.9	47.1	46.3	45.5
42	53.5	52.7	51.9	51.0	50.2	49.4	48.6	47.8	47.0	46.3
43	54.1	53.3	52.5	51.7	50.9	50.1	49.3	48.5	47.7	46.9
44	54.7	53.9	53.0	52.2	51.5	50.7	49.9	49.1	48.3	47.6
45	55.2	54.4	53.6	52.8	52.0	51.3	50.5	49.7	49.0	48.2
46	55.7	54.9	54.2	53.4	52.6	51.8	51.1	50.3	49.6	48.8
47	56.2	55.5	54.7	53.9	53.1	52.4	51.6	50.9	50.1	49.4
48	56.7	55.9	55.2	54.4	53.7	52.9	52.2	51.4	50.7	49.9
49	57.2	56.4	55.7	54.9	54.2	53.4	52.7	51.9	51.2	50.5
50	57.6	56.9	56.1	55.4	54.6	53.9	53.2	52.4	51.7	51.0
51	58.1	57.3	56.6	55.8	55.1	54.4	53.6	52.9	52.2	51.5
52	58.5	57.8	57.0	56.3	55.6	54.8	54.1	53.4	52.7	52.0
53	58.9	58.2	57.4	56.7	56.0	55.3	54.6	53.9	53.2	52.5
54	59.3	58.6	57.9	57.1	56.4	55.7	55.0	54.3	53.6	52.9
55	59.7	59.0	58.3	57.5	56.8	56.1	55.4	54.7	54.1	53.4
56	60.1	59.4	58.7	57.9	57.2	56.5	55.8	55.2	54.5	53.8
57	60.5	59.7	59.0	58.3	57.6	56.9	56.2	55.6	54.9	54.2

表 5b（续）

$t-t_w$ / t	9.2	9.4	9.6	9.8	10.0	10.2	10.4	10.6	10.8	11.0
58	60.8	60.1	59.4	58.7	58.0	57.3	56.6	56.0	55.3	54.6
59	61.2	60.5	59.8	59.1	58.4	57.7	57.0	56.3	55.7	55.0
60	61.5	60.8	60.1	59.4	58.7	58.1	57.4	56.7	56.1	55.4
61	61.8	61.1	60.4	59.8	59.1	58.4	57.7	57.1	56.4	55.8
62	62.1	61.5	60.8	60.1	59.4	58.8	58.1	57.4	56.8	56.1
63	62.5	61.8	61.1	60.4	59.8	59.1	58.4	57.8	57.1	56.5
64	62.8	62.1	61.4	60.7	60.1	59.4	58.8	58.1	57.5	56.9
65	63.1	62.4	61.7	61.1	60.4	59.8	59.1	58.5	57.8	57.2
66	63.3	62.7	62.0	61.4	60.7	60.1	59.4	58.8	58.2	57.5
67	63.6	63.0	62.3	61.7	61.0	60.4	59.7	59.1	58.5	57.9
68	63.9	63.3	62.6	62.0	61.3	60.7	60.0	59.4	58.8	58.2
69	64.2	63.5	62.9	62.2	61.6	61.0	60.3	59.7	59.1	58.5
70	64.5	63.8	63.2	62.5	61.9	61.3	60.6	60.0	59.4	58.8
71	64.7	64.1	63.4	62.8	62.2	61.5	60.9	60.3	59.7	59.1
72	65.0	64.3	63.7	63.1	62.4	61.8	61.2	60.6	60.0	59.4
73	65.2	64.6	64.0	63.3	62.7	62.1	61.5	60.9	60.3	59.7
74	65.5	64.8	64.2	63.6	63.0	62.4	61.7	61.1	60.5	59.9
75	65.7	65.1	64.5	63.8	63.2	62.6	62.0	61.4	60.8	60.2
76	66.0	65.3	64.7	64.1	63.5	62.9	62.3	61.7	61.1	60.5
77	66.2	65.6	65.0	64.3	63.7	63.1	62.5	61.9	61.3	60.8
78	66.4	65.8	65.2	64.6	64.0	63.4	62.8	62.2	61.6	61.0
79	66.7	66.0	65.4	64.8	64.2	63.6	63.0	62.4	61.9	61.3
80	66.9	66.3	65.7	65.1	64.5	63.9	63.3	62.7	62.1	61.5
81	67.1	66.5	65.9	65.3	64.7	64.1	63.5	62.9	62.4	61.8
82	67.3	66.7	66.1	65.5	64.9	64.3	63.8	63.2	62.6	62.0
83	67.5	66.9	66.3	65.7	65.2	64.6	64.0	63.4	62.8	62.3
84	67.7	67.1	66.5	66.0	65.4	64.8	64.2	63.6	63.1	62.5
85	67.9	67.4	66.8	66.2	65.6	65.0	64.4	63.9	63.3	62.7
86	68.2	67.6	67.0	66.4	65.8	65.2	64.7	64.1	63.5	63.0
87	68.4	67.8	67.2	66.6	66.0	65.5	64.9	64.3	63.8	63.2
88	68.6	68.0	67.4	66.8	66.2	65.7	65.1	64.5	64.0	63.4
89	68.7	68.2	67.6	67.0	66.4	65.9	65.3	64.8	64.2	63.7
90	68.9	68.4	67.8	67.2	66.7	66.1	65.5	65.0	64.4	63.9
91	69.1	68.6	68.0	67.4	66.9	66.3	65.7	65.2	64.6	64.1
92	69.3	68.7	68.2	67.6	67.1	66.5	65.9	65.4	64.8	64.3
93	69.5	68.9	68.4	67.8	67.3	66.7	66.1	65.6	65.1	64.5
94	69.7	69.1	68.6	68.0	67.4	66.9	66.3	65.8	65.3	64.7
95	69.9	69.3	68.7	68.2	67.6	67.1	66.5	66.0	65.5	64.9
96	70.1	69.5	68.9	68.4	67.8	67.3	66.7	66.2	65.7	65.1
97	70.2	69.7	69.1	68.6	68.0	67.5	66.9	66.4	65.9	65.3
98	70.4	69.8	69.3	68.7	68.2	67.7	67.1	66.6	66.1	65.5
99	70.6	70.0	69.5	68.9	68.4	67.8	67.3	66.8	66.3	65.7
100	70.7	70.2	69.7	69.1	68.6	68.0	67.5	67.0	66.4	65.9

表 5b（续）

$t-t_w$ / t	11.5	12.0	12.5	13.5	13.5	14.0	14.5	15.0	15.5	16.0
15	3.1									
16	6.1	2.7								
17	8.9	5.6	2.4							
18	11.5	8.3	5.2	2.2						
19	13.9	10.9	7.9	4.9	2.0					
20	16.2	13.2	10.3	7.5	4.7	1.9				
21	18.3	15.5	12.6	9.9	7.2	4.5	1.8			
22	20.3	17.6	14.8	12.1	9.5	6.9	4.3	1.8		
23	22.3	19.5	16.9	14.3	11.7	9.2	6.7	4.2	1.8	
24	24.0	21.4	18.8	16.3	13.8	11.3	8.9	6.5	4.1	1.8
25	25.7	23.2	20.6	18.2	15.7	13.3	11.0	8.6	6.4	4.1
26	27.3	24.8	22.4	19.9	17.6	15.2	12.9	10.7	8.4	6.2
27	28.9	26.4	24.0	21.6	19.3	17.0	14.8	12.6	10.4	8.3
28	30.3	27.9	25.5	23.2	21.0	18.7	16.5	14.4	12.3	10.2
29	31.7	29.3	27.0	24.7	22.5	20.3	18.2	16.1	14.0	12.0
30	32.9	30.6	28.4	26.2	24.0	21.9	19.8	17.7	15.7	13.7
31	34.2	31.9	29.7	27.5	25.4	23.3	21.2	19.2	17.2	15.3
32	35.3	33.1	30.9	28.8	26.7	24.7	22.6	20.7	18.7	16.8
33	36.4	34.3	32.1	30.0	28.0	26.0	24.0	22.0	20.1	18.3
34	37.5	35.3	33.2	31.2	29.2	27.2	25.3	23.4	21.5	19.7
35	38.5	36.4	34.3	32.3	30.3	28.4	26.5	24.6	22.8	21.0
36	39.4	37.4	35.3	33.4	31.4	29.5	27.6	25.8	24.0	22.2
37	40.3	38.3	36.3	34.4	32.4	30.6	28.7	26.9	25.1	23.4
38	41.2	39.2	37.2	35.3	33.4	31.6	29.8	28.0	26.2	24.5
39	42.0	40.1	38.1	36.2	34.4	32.6	30.8	29.0	27.3	25.6
40	42.8	40.9	39.0	37.1	35.3	33.5	31.7	30.0	28.3	26.6
41	43.6	41.7	39.8	38.0	36.1	34.4	32.6	30.9	29.3	27.6
42	44.3	42.4	40.6	38.8	37.0	35.2	33.5	31.8	30.2	28.6
43	45.0	43.2	41.3	39.5	37.8	36.0	34.4	32.7	31.1	29.5
44	45.7	43.9	42.0	40.3	38.5	36.8	35.2	33.5	31.9	30.3
45	46.3	44.5	42.7	41.0	39.3	37.6	35.9	34.3	32.7	31.2
46	47.0	45.2	43.4	41.7	40.0	38.3	36.7	35.1	33.5	32.0
47	47.6	45.8	44.0	42.3	40.6	39.0	37.4	35.8	34.3	32.7
48	48.1	46.4	44.7	43.0	41.3	39.7	38.1	36.5	35.0	33.5
49	48.7	47.0	45.3	43.6	41.9	40.3	38.7	37.2	35.7	34.2
50	49.2	47.5	45.8	44.2	42.5	40.9	39.4	37.8	36.3	34.9
51	49.8	48.1	46.4	44.7	43.1	41.5	40.0	38.5	37.0	35.5
52	50.3	48.6	46.9	45.3	43.7	42.1	40.6	39.1	37.6	36.2
53	50.8	49.1	47.4	45.8	44.2	42.7	41.2	39.7	38.2	36.8
54	51.2	49.6	47.9	46.3	44.8	43.2	41.7	40.2	38.8	37.4
55	51.7	50.0	48.4	46.8	45.3	43.8	42.3	40.8	39.4	38.0
56	52.1	50.5	48.9	47.3	45.8	44.3	42.8	41.3	39.9	38.5
57	52.6	50.9	49.4	47.8	46.3	44.8	43.3	41.9	40.4	39.1

表 5b（续）

$t-t_w$ / t	11.5	12.0	12.5	13.5	13.5	14.0	14.5	15.0	15.5	16.0
58	53.0	51.4	49.8	48.3	46.7	45.2	43.8	42.4	41.0	39.6
59	53.4	51.8	50.2	48.7	47.2	45.7	44.3	42.8	41.5	40.1
60	53.8	52.2	50.7	49.1	47.6	46.2	44.7	43.3	41.9	40.6
61	54.2	52.6	51.1	49.5	48.1	46.6	45.2	43.8	42.4	41.1
62	54.6	53.0	51.5	50.0	48.5	47.0	45.6	44.2	42.9	41.5
63	54.9.	53.4	51.9	50.4	48.9	47.5	46.1	44.7	43.3	42.0
64	55.3	53.7	52.2	50.7	49.3	47.9	46.5	45.1	43.8	42.4
65	55.6	54.1	52.6	51.1	49.7	48.3	46.9	45.5	44.2	42.9
66	56.0	54.5	53.0	51.5	50.1	48.7	47.3	45.9	44.6	43.3
67	56.3	54.8	53.3	51.9	50.4	49.0	47.7	46.3	45.0	43.7
68	56.6	55.1	53.7	52.2	50.8	49.4	48.0	46.7	45.4	44.1
69	57.0	55.5	54.0	52.6	51.2	49.8	48.4	47.1	45.8	44.5
70	57.3	55.8	54.3	52.9	51.5	50.1	48.8	47.5	46.2	44.9
71	57.6	56.1	54.7	53.2	51.8	50.5	49.1	47.8	46.5	45.3
72	57.9	56.4	55.0	53.6	52.2	50.8	49.5	48.2	46.9	45.6
73	58.2	56.7	55.3	53.9	52.5	51.2	49.8	48.5	47.2	46.0
74	58.5	57.0	55.6	54.2	52.8	51.5	50.2	48.9	47.6	46.3
75	58.8	57.3	55.9	54.5	53.1	51.8	50.5	49.2	47.9	46.7
76	59.0	57.6	56.2	54.8	53.5	52.1	50.8	49.5	48.3	47.0
77	59.3	57.9	56.5	55.1	53.8	52.4	51.1	49.9	48.6	47.4
78	59.6	58.2	56.8	55.4	54.1	52.7	51.5	50.2	48.9	47.7
79	59.8	58.4	57.1	55.7	54.4	53.0	51.8	50.5	49.2	48.0
80	60.1	58.7	57.3	56.0	54.6	53.3	52.1	50.8	49.6	48.3
81	60.4	59.0	57.6	56.3	54.9	53.6	52.4	51.1	49.9	48.7
82	60.6	59.2	57.9	56.5	55.2	53.9	52.6	51.4	50.2	49.0
83	60.9	59.5	58.1	56.8	55.5	54.2	52.9	51.7	50.5	49.3
84	61.1	59.7	58.4	57.1	55.8	54.5	53.2	52.0	50.8	49.6
85	61.4	60.0	58.6	57.3	56.0	54.8	53.5	52.3	51.1	49.9
86	61.6	60.2	58.9	57.6	56.3	55.0	53.8	52.5	51.3	50.2
87	61.8	60.5	59.1	57.8	56.6	55.3	54.0	52.8	51.6	50.4
88	62.1	60.7	59.4	58.1	56.8	55.5	54.3	53.1	51.9	50.7
89	62.3	60.9	59.6	58.3	57.1	55.8	54.6	53.4	52.2	51.0
90	62.5	61.2	59.9	58.6	57.3	56.1	54.8	53.6	52.4	51.3
91	62.7	61.4	60.1	58.8	57.6	56.3	55.1	53.9	52.7	51.6
92	63.0	61.6	60.3	59.1	57.8	56.6	55.3	54.2	53.0	51.8
93	63.2	61.9	60.6	59.3	58.0	56.8	55.6	54.4	53.2	52.1
94	63.4	62.1	60.8	59.5	58.3	57.1	55.8	54.7	53.5	52.3
95	63.6	62.3	61.0	59.8	58.5	57.3	56.1	54.9	53.7	52.6
96	63.8	62.5	61.2	60.0	58.7	57.5	56.3	55.2	54.0	52.9
97	64.0	62.7	61.5	60.2	59.0	57.8	56.6	55.4	54.2	53.1
98	64.2	62.9	61.7	60.4	59.2	58.0	56.8	55.6	54.5	53.4
99	64.4	63.1	61.9	60.6	59.4	58.2	57.0	55.9	54.7	53.6
100	64.6	63.4	62.1	60.9	59.6	58.4	57.3	56.1	55.0	53.8

表 5c 球状、柱状水银温度表相对湿度查算表

$P=80 \text{ kPa}, A=0.662 \times 10^{-3} \text{°C}^{-1} (2.5 \text{ m/s})$

$t-t_w$ t	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0
15	100.0	99.0	98.1	97.2	96.2	95.3	94.3	93.4	92.5	91.6	90.6
16	100.0	99.1	98.1	97.2	96.3	95.4	94.5	93.6	92.7	91.8	90.9
17	100.0	99.1	98.2	97.3	96.4	95.5	94.6	93.7	92.9	92.0	91.1
18	100.0	99.1	98.2	97.4	96.5	95.6	94.7	93.9	93.0	92.2	91.3
19	100.0	99.1	98.3	97.4	96.6	95.7	94.9	94.0	93.2	92.3	91.5
20	100.0	99.2	98.3	97.5	96.6	95.8	95.0	94.2	93.3	92.5	91.7
21	100.0	99.2	98.4	97.5	96.7	95.9	95.1	94.3	93.5	92.7	91.9
22	100.0	99.2	98.4	97.6	96.8	96.0	95.2	94.4	93.6	92.8	92.1
23	100.0	99.2	98.4	97.6	96.9	96.1	95.3	94.5	93.8	93.0	92.2
24	100.0	99.2	98.4	97.7	96.9	96.1	95.4	94.6	93.9	93.1	92.4
25	100.0	99.2	98.5	97.7	97.0	96.2	95.5	94.7	94.0	93.3	92.5
26	100.0	99.3	98.5	97.8	97.0	96.3	95.6	94.8	94.1	93.4	92.7
27	100.0	99.3	98.5	97.8	97.1	96.4	95.6	94.9	94.2	93.5	92.8
28	100.0	99.3	98.6	97.8	97.1	96.4	95.7	95.0	94.3	93.6	92.9
29	100.0	99.3	98.6	97.9	97.2	96.5	95.8	95.1	94.4	93.7	93.0
30	100.0	99.3	98.6	97.9	97.2	96.5	95.9	95.2	94.5	93.8	93.2
31	100.0	99.3	98.6	97.9	97.3	96.6	95.9	95.3	94.6	93.9	93.3
32	100.0	99.3	98.7	98.0	97.3	96.7	96.0	95.3	94.7	94.0	93.4
33	100.0	99.3	98.7	98.0	97.4	96.7	96.0	95.4	94.8	94.1	93.5
34	100.0	99.3	98.7	98.0	97.4	96.7	96.1	95.5	94.8	94.2	93.6
35	100.0	99.4	98.7	98.1	97.4	96.8	96.2	95.5	94.9	94.3	93.7
36	100.0	99.4	98.7	98.1	97.5	96.8	96.2	95.6	95.0	94.4	93.7
37	100.0	99.4	98.7	98.1	97.5	96.9	96.3	95.7	95.0	94.4	93.8
38	100.0	99.4	98.8	98.1	97.5	96.9	96.3	95.7	95.1	94.5	93.9
39	100.0	99.4	98.8	98.2	97.6	97.0	96.4	95.8	95.2	94.6	94.0
40	100.0	99.4	98.8	98.2	97.6	97.0	96.4	95.8	95.2	94.7	94.1
41	100.0	99.4	98.8	98.2	97.6	97.0	96.5	95.9	95.3	94.7	94.1
42	100.0	99.4	98.8	98.2	97.7	97.1	96.5	95.9	95.4	94.8	94.2
43	100.0	99.4	98.8	98.3	97.7	97.1	96.5	96.0	95.4	94.8	94.3
44	100.0	99.4	98.9	98.3	97.7	97.1	96.6	96.0	95.5	94.9	94.4
45	100.0	99.4	98.9	98.3	97.7	97.2	96.6	96.1	95.5	95.0	94.4
46	100.0	99.4	98.9	98.3	97.8	97.2	96.7	96.1	95.6	95.0	94.5
47	100.0	99.4	98.9	98.3	97.8	97.2	96.7	96.2	95.6	95.1	94.5
48	100.0	99.5	98.9	98.4	97.8	97.3	96.7	96.2	95.7	95.1	94.6
49	100.0	99.5	98.9	98.4	97.8	97.3	96.8	96.2	95.7	95.2	94.7
50	100.0	99.5	98.9	98.4	97.9	97.3	96.8	96.3	95.8	95.2	94.7
51	100.0	99.5	98.9	98.4	97.9	97.4	96.8	96.3	95.8	95.3	94.8
52	100.0	99.5	98.9	98.4	97.9	97.4	96.9	96.4	95.8	95.3	94.8
53	100.0	99.5	99.0	98.4	97.9	97.4	96.9	96.4	95.9	95.4	94.9
54	100.0	99.5	99.0	98.5	97.9	97.4	96.9	96.4	95.9	95.4	94.9
55	100.0	99.5	99.0	98.5	98.0	97.5	97.0	96.5	96.0	95.5	95.0
56	100.0	99.5	99.0	98.5	98.0	97.5	97.0	96.5	96.0	95.5	95.0
57	100.0	99.5	99.0	98.5	98.0	97.5	97.0	96.5	96.0	95.5	95.1

表 5c（续）

$t-t_w$ t	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0
58	100.0	99.5	99.0	98.5	98.0	97.5	97.0	96.6	96.1	95.6	95.1
59	100.0	99.5	99.0	98.5	98.0	97.6	97.1	96.6	96.1	95.6	95.2
60	100.0	99.5	99.0	98.5	98.1	97.6	97.1	96.6	96.1	95.7	95.2
61	100.0	99.5	99.0	98.6	98.1	97.6	97.1	96.6	96.2	95.7	95.2
62	100.0	99.5	99.0	98.6	98.1	97.6	97.1	96.7	96.2	95.7	95.3
63	100.0	99.5	99.1	98.6	98.1	97.6	97.2	96.7	96.2	95.8	95.3
64	100.0	99.5	99.1	98.6	98.1	97.7	97.2	96.7	96.3	95.8	95.4
65	100.0	99.5	99.1	98.6	98.1	97.7	97.2	96.8	96.3	95.9	95.4
66	100.0	99.5	99.1	98.6	98.2	97.7	97.2	96.8	96.3	95.9	95.4
67	100.0	99.5	99.1	98.6	98.2	97.7	97.3	96.8	96.4	95.9	95.5
68	100.0	99.5	99.1	98.6	98.2	97.7	97.3	96.8	96.4	96.0	95.5
69	100.0	99.5	99.1	98.6	98.2	97.8	97.3	96.9	96.4	96.0	95.5
70	100.0	99.6	99.1	98.7	98.2	97.8	97.3	96.9	96.5	96.0	95.6
71	100.0	99.6	99.1	98.7	98.2	97.8	97.4	96.9	96.5	96.0	95.6
72	100.0	99.6	99.1	98.7	98.2	97.8	97.4	96.9	96.5	96.1	95.7
73	100.0	99.6	99.1	98.7	98.3	97.8	97.4	97.0	96.5	96.1	95.7
74	100.0	99.6	99.1	98.7	98.3	97.8	97.4	97.0	96.6	96.1	95.7
75	100.0	99.6	99.1	98.7	98.3	97.9	97.4	97.0	96.6	96.2	95.8
76	100.0	99.6	99.1	98.7	98.3	97.9	97.5	97.0	96.6	96.2	95.8
77	100.0	99.6	99.2	98.7	98.3	97.9	97.5	97.1	96.6	96.2	95.8
78	100.0	99.6	99.2	98.7	98.3	97.9	97.5	97.1	96.7	96.3	95.8
79	100.0	99.6	99.2	98.7	98.3	97.9	97.5	97.1	96.7	96.3	95.9
80	100.0	99.6	99.2	98.8	98.3	97.9	97.5	97.1	96.7	96.3	95.9
81	100.0	99.6	99.2	98.8	98.4	98.0	97.5	97.1	96.7	96.3	95.9
82	100.0	99.6	99.2	98.8	98.4	98.0	97.6	97.2	96.8	96.4	96.0
83	100.0	99.6	99.2	98.8	98.4	98.0	97.6	97.2	96.8	96.4	96.0
84	100.0	99.6	99.2	98.8	98.4	98.0	97.6	97.2	96.8	96.4	96.0
85	100.0	99.6	99.2	98.8	98.4	98.0	97.6	97.2	96.8	96.4	96.1
86	100.0	99.6	99.2	98.8	98.4	98.0	97.6	97.2	96.9	96.5	96.1
87	100.0	99.6	99.2	98.8	98.4	98.0	97.6	97.3	96.9	96.5	96.1
88	100.0	99.6	99.2	98.8	98.4	98.1	97.7	97.3	96.9	96.5	96.1
89	100.0	99.6	99.2	98.8	98.4	98.1	97.7	97.3	96.9	96.5	96.2
90	100.0	99.6	99.2	98.8	98.5	98.1	97.7	97.3	96.9	96.6	96.2
91	100.0	99.6	99.2	98.9	98.5	98.1	97.7	97.3	97.0	96.6	96.2
92	100.0	99.6	99.2	98.9	98.5	98.1	97.7	97.4	97.0	96.6	96.2
93	100.0	99.6	99.2	98.9	98.5	98.1	97.7	97.4	97.0	96.6	96.3
94	100.0	99.6	99.2	98.9	98.5	98.1	97.8	97.4	97.0	96.7	96.3
95	100.0	99.6	99.3	98.9	98.5	98.1	97.8	97.4	97.0	96.7	96.3
96	100.0	99.6	99.3	98.9	98.5	98.2	97.8	97.4	97.1	96.7	96.3
97	100.0	99.6	99.3	98.9	98.5	98.2	97.8	97.4	97.1	96.7	96.4
98	100.0	99.6	99.3	98.9	98.5	98.2	97.8	97.5	97.1	96.7	96.4
99	100.0	99.6	99.3	98.9	98.6	98.2	97.8	97.5	97.1	96.8	96.4
100	100.0	99.6	99.3	98.9	98.6	98.2	97.8	97.5	97.1	96.8	96.4

表 5c（续）

t－t_w \ t	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0
15	89.7	88.8	87.9	87.0	86.1	85.2	84.3	83.4	82.5	81.6
16	90.0	89.1	88.2	87.3	86.4	85.6	84.7	83.8	82.9	82.1
17	90.2	89.4	88.5	87.6	86.8	85.9	85.1	84.2	83.4	82.5
18	90.5	89.6	88.8	87.9	87.1	86.3	85.4	84.6	83.8	83.0
19	90.7	89.9	89.0	88.2	87.4	86.6	85.8	85.0	84.2	83.4
20	90.9	90.1	89.3	88.5	87.7	86.9	86.1	85.3	84.5	83.7
21	91.1	90.3	89.5	88.7	87.9	87.2	86.4	85.6	84.9	84.1
22	91.3	90.5	89.7	89.0	88.2	87.4	86.7	85.9	85.2	84.4
23	91.5	90.7	89.9	89.2	88.4	87.7	87.0	86.2	85.5	84.7
24	91.6	90.9	90.1	89.4	88.7	87.9	87.2	86.5	85.8	85.0
25	91.8	91.1	90.3	89.6	88.9	88.2	87.5	86.7	86.0	85.3
26	91.9	91.2	90.5	89.8	89.1	88.4	87.7	87.0	86.3	85.6
27	92.1	91.4	90.7	90.0	89.3	88.6	87.9	87.2	86.5	85.9
28	92.2	91.5	90.8	90.2	89.5	88.8	88.1	87.5	86.8	86.1
29	92.4	91.7	91.0	90.3	89.7	89.0	88.3	87.7	87.0	86.4
30	92.5	91.8	91.2	90.5	89.8	89.2	88.5	87.9	87.2	86.6
31	92.6	91.9	91.3	90.6	90.0	89.4	88.7	88.1	87.4	86.8
32	92.7	92.1	91.4	90.8	90.2	89.5	88.9	88.3	87.6	87.0
33	92.8	92.2	91.6	90.9	90.3	89.7	89.1	88.4	87.8	87.2
34	92.9	92.3	91.7	91.1	90.4	89.8	89.2	88.6	88.0	87.4
35	93.0	92.4	91.8	91.2	90.6	90.0	89.4	88.8	88.2	87.6
36	93.1	92.5	91.9	91.3	90.7	90.1	89.5	88.9	88.3	87.7
37	93.2	92.6	92.0	91.4	90.8	90.3	89.7	89.1	88.5	87.9
38	93.3	92.7	92.1	91.6	91.0	90.4	89.8	89.2	88.6	88.1
39	93.4	92.8	92.2	91.7	91.1	90.5	89.9	89.4	88.8	88.2
40	93.5	92.9	92.3	91.8	91.2	90.6	90.1	89.5	88.9	88.4
41	93.6	93.0	92.4	91.9	91.3	90.7	90.2	89.6	89.1	88.5
42	93.7	93.1	92.5	92.0	91.4	90.9	90.3	89.8	89.2	88.7
43	93.7	93.2	92.6	92.1	91.5	91.0	90.4	89.9	89.3	88.8
44	93.8	93.3	92.7	92.2	91.6	91.1	90.5	90.0	89.5	88.9
45	93.9	93.3	92.8	92.2	91.7	91.2	90.6	90.1	89.6	89.1
46	93.9	93.4	92.9	92.3	91.8	91.3	90.7	90.2	89.7	89.2
47	94.0	93.5	92.9	92.4	91.9	91.4	90.8	90.3	89.8	89.3
48	94.1	93.5	93.0	92.5	92.0	91.5	90.9	90.4	89.9	89.4
49	94.1	93.6	93.1	92.6	92.1	91.6	91.0	90.5	90.0	89.5
50	94.2	93.7	93.2	92.7	92.1	91.6	91.1	90.6	90.1	89.6
51	94.3	93.7	93.2	92.7	92.2	91.7	91.2	90.7	90.2	89.7
52	94.3	93.8	93.3	92.8	92.3	91.8	91.3	90.8	90.3	89.8
53	94.4	93.9	93.4	92.9	92.4	91.9	91.4	90.9	90.4	89.9
54	94.4	93.9	93.4	92.9	92.5	92.0	91.5	91.0	90.5	90.0
55	94.5	94.0	93.5	93.0	92.5	92.0	91.6	91.1	90.6	90.1
56	94.5	94.0	93.6	93.1	92.6	92.1	91.6	91.2	90.7	90.2
57	94.6	94.1	93.6	93.1	92.7	92.2	91.7	91.2	90.8	90.3

表 5c（续）

t—t_w t	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0
58	94.6	94.2	93.7	93.2	92.7	92.3	91.8	91.3	90.9	90.4
59	94.7	94.2	93.7	93.3	92.8	92.3	91.9	91.4	90.9	90.5
60	94.7	94.3	93.8	93.3	92.9	92.4	91.9	91.5	91.0	90.6
61	94.8	94.3	93.8	93.4	92.9	92.5	92.0	91.6	91.1	90.7
62	94.8	94.4	93.9	93.4	93.0	92.5	92.1	91.6	91.2	90.7
63	94.9	94.4	94.0	93.5	93.0	92.6	92.1	91.7	91.3	90.8
64	94.9	94.5	94.0	93.6	93.1	92.7	92.2	91.8	91.3	90.9
65	94.9	94.5	94.1	93.6	93.2	92.7	92.3	91.8	91.4	91.0
66	95.0	94.5	94.1	93.7	93.2	92.8	92.3	91.9	91.5	91.0
67	95.0	94.6	94.1	93.7	93.3	92.8	92.4	92.0	91.5	91.1
68	95.1	94.6	94.2	93.8	93.3	92.9	92.5	92.0	91.6	91.2
69	95.1	94.7	94.2	93.8	93.4	93.0	92.5	92.1	91.7	91.3
70	95.2	94.7	94.3	93.9	93.4	93.0	92.6	92.2	91.7	91.3
71	95.2	94.8	94.3	93.9	93.5	93.1	92.6	92.2	91.8	91.4
72	95.2	94.8	94.4	94.0	93.5	93.1	92.7	92.3	91.9	91.5
73	95.3	94.8	94.4	94.0	93.6	93.2	92.8	92.3	91.9	91.5
74	95.3	94.9	94.5	94.0	93.6	93.2	92.8	92.4	92.0	91.6
75	95.3	94.9	94.5	94.1	93.7	93.3	92.9	92.5	92.1	91.6
76	95.4	95.0	94.5	94.1	93.7	93.3	92.9	92.5	92.1	91.7
77	95.4	95.0	94.6	94.2	93.8	93.4	93.0	92.6	92.2	91.8
78	95.4	95.0	94.6	94.2	93.8	93.4	93.0	92.6	92.2	91.8
79	95.5	95.1	94.7	94.3	93.9	93.5	93.1	92.7	92.3	91.9
80	95.5	95.1	94.7	94.3	93.9	93.5	93.1	92.7	92.3	91.9
81	95.5	95.1	94.7	94.3	94.0	93.6	93.2	92.8	92.4	92.0
82	95.6	95.2	94.8	94.4	94.0	93.6	93.2	92.8	92.4	92.1
83	95.6	95.2	94.8	94.4	94.0	93.7	93.3	92.9	92.5	92.1
84	95.6	95.2	94.9	94.5	94.1	93.7	93.3	92.9	92.6	92.2
85	95.7	95.3	94.9	94.5	94.1	93.7	93.4	93.0	92.6	92.2
86	95.7	95.3	94.9	94.5	94.2	93.8	93.4	93.0	92.7	92.3
87	95.7	95.3	95.0	94.6	94.2	93.8	93.5	93.1	92.7	92.3
88	95.8	95.4	95.0	94.6	94.2	93.9	93.5	93.1	92.8	92.4
89	95.8	95.4	95.0	94.7	94.3	93.9	93.5	93.2	92.8	92.4
90	95.8	95.4	95.1	94.7	94.3	94.0	93.6	93.2	92.9	92.5
91	95.8	95.5	95.1	94.7	94.4	94.0	93.6	93.3	92.9	92.5
92	95.9	95.5	95.1	94.8	94.4	94.0	93.7	93.3	92.9	92.6
93	95.9	95.5	95.2	94.8	94.4	94.1	93.7	93.4	93.0	92.6
94	95.9	95.6	95.2	94.8	94.5	94.1	93.8	93.4	93.0	92.7
95	95.9	95.6	95.2	94.9	94.5	94.2	93.8	93.4	93.1	92.7
96	96.0	95.6	95.3	94.9	94.5	94.2	93.8	93.5	93.1	92.8
97	96.0	95.6	95.3	94.9	94.6	94.2	93.9	93.5	93.2	92.8
98	96.0	95.7	95.3	95.0	94.6	94.3	93.9	93.6	93.2	92.9
99	96.1	95.7	95.4	95.0	94.7	94.3	94.0	93.6	93.3	92.9
100	96.1	95.7	95.4	95.0	94.7	94.3	94.0	93.6	93.3	93.0

表 5c（续）

$t-t_w$ / t	2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9	3.0
15	80.7	79.8	79.0	78.1	77.2	76.4	75.5	74.6	73.8	72.9
16	81.2	80.4	79.5	78.7	77.8	77.0	76.1	75.3	74.5	73.6
17	81.7	80.9	80.0	79.2	78.4	77.5	76.7	75.9	75.1	74.3
18	82.1	81.3	80.5	79.7	78.9	78.1	77.3	76.5	75.7	74.9
19	82.6	81.8	81.0	80.2	79.4	78.6	77.8	77.1	76.3	75.5
20	83.0	82.2	81.4	80.6	79.9	79.1	78.3	77.6	76.8	76.1
21	83.3	82.6	81.8	81.1	80.3	79.6	78.8	78.1	77.3	76.6
22	83.7	82.9	82.2	81.5	80.7	80.0	79.3	78.5	77.8	77.1
23	84.0	83.3	82.6	81.8	81.1	80.4	79.7	79.0	78.3	77.6
24	84.3	83.6	82.9	82.2	81.5	80.8	80.1	79.4	78.7	78.0
25	84.6	83.9	83.2	82.5	81.9	81.2	80.5	79.8	79.1	78.4
26	84.9	84.2	83.5	82.9	82.2	81.5	80.8	80.2	79.5	78.8
27	85.2	84.5	83.8	83.2	82.5	81.8	81.2	80.5	79.9	79.2
28	85.5	84.8	84.1	83.5	82.8	82.2	81.5	80.9	80.2	79.6
29	85.7	85.1	84.4	83.8	83.1	82.5	81.8	81.2	80.6	79.9
30	85.9	85.3	84.7	84.0	83.4	82.8	82.1	81.5	80.9	80.3
31	86.2	85.5	84.9	84.3	83.7	83.0	82.4	81.8	81.2	80.6
32	86.4	85.8	85.1	84.5	83.9	83.3	82.7	82.1	81.5	80.9
33	86.6	86.0	85.4	84.8	84.2	83.6	83.0	82.4	81.8	81.2
34	86.8	86.2	85.6	85.0	84.4	83.8	83.2	82.6	82.0	81.5
35	87.0	86.4	85.8	85.2	84.6	84.0	83.5	82.9	82.3	81.7
36	87.2	86.6	86.0	85.4	84.8	84.3	83.7	83.1	82.6	82.0
37	87.3	86.8	86.2	85.6	85.0	84.5	83.9	83.3	82.8	82.2
38	87.5	86.9	86.4	85.8	85.2	84.7	84.1	83.6	83.0	82.5
39	87.7	87.1	86.5	86.0	85.4	84.9	84.3	83.8	83.2	82.7
40	87.8	87.3	86.7	86.2	85.6	85.1	84.5	84.0	83.5	82.9
41	88.0	87.4	86.9	86.3	85.8	85.3	84.7	84.2	83.7	83.1
42	88.1	87.6	87.0	86.5	86.0	85.4	84.9	84.4	83.9	83.3
43	88.3	87.7	87.2	86.7	86.1	85.6	85.1	84.6	84.0	83.5
44	88.4	87.9	87.3	86.8	86.3	85.8	85.3	84.7	84.2	83.7
45	88.5	88.0	87.5	87.0	86.5	85.9	85.4	84.9	84.4	83.9
46	88.7	88.1	87.6	87.1	86.6	86.1	85.6	85.1	84.6	84.1
47	88.8	88.3	87.8	87.3	86.8	86.2	85.7	85.2	84.8	84.3
48	88.9	88.4	87.9	87.4	86.9	86.4	85.9	85.4	84.9	84.4
49	89.0	88.5	88.0	87.5	87.0	86.5	86.0	85.6	85.1	84.6
50	89.1	88.6	88.1	87.7	87.2	86.7	86.2	85.7	85.2	84.7
51	89.2	88.8	88.3	87.8	87.3	86.8	86.3	85.8	85.4	84.9
52	89.4	88.9	88.4	87.9	87.4	86.9	86.5	86.0	85.5	85.0
53	89.5	89.0	88.5	88.0	87.5	87.1	86.6	86.1	85.7	85.2
54	89.6	89.1	88.6	88.1	87.7	87.2	86.7	86.3	85.8	85.3
55	89.7	89.2	88.7	88.2	87.8	87.3	86.9	86.4	85.9	85.5
56	89.8	89.3	88.8	88.4	87.9	87.4	87.0	86.5	86.1	85.6
57	89.8	89.4	88.9	88.5	88.0	87.5	87.1	86.6	86.2	85.7

表 5c（续）

$t\diagdown{t-t_w}$	2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9	3.0
58	89.9	89.5	89.0	88.6	88.1	87.7	87.2	86.8	86.3	85.9
59	90.0	89.6	89.1	88.7	88.2	87.8	87.3	86.9	86.4	86.0
60	90.1	89.7	89.2	88.8	88.3	87.9	87.4	87.0	86.6	86.1
61	90.2	89.8	89.3	88.9	88.4	88.0	87.5	87.1	86.7	86.2
62	90.3	89.8	89.4	89.0	88.5	88.1	87.6	87.2	86.8	86.4
63	90.4	89.9	89.5	89.1	88.6	88.2	87.8	87.3	86.9	86.5
64	90.4	90.0	89.6	89.1	88.7	88.3	87.9	87.4	87.0	86.6
65	90.5	90.1	89.7	89.2	88.8	88.4	88.0	87.5	87.1	86.7
66	90.6	90.2	89.7	89.3	88.9	88.5	88.1	87.6	87.2	86.8
67	90.7	90.3	89.8	89.4	89.0	88.6	88.1	87.7	87.3	86.9
68	90.8	90.3	89.9	89.5	89.1	88.7	88.2	87.8	87.4	87.0
69	90.8	90.4	90.0	89.6	89.2	88.7	88.3	87.9	87.5	87.1
70	90.9	90.5	90.1	89.7	89.2	88.8	88.4	88.0	87.6	87.2
71	91.0	90.6	90.1	89.7	89.3	88.9	88.5	88.1	87.7	87.3
72	91.0	90.6	90.2	89.8	89.4	89.0	88.6	88.2	87.8	87.4
73	91.1	90.7	90.3	89.9	89.5	89.1	88.7	88.3	87.9	87.5
74	91.2	90.8	90.4	90.0	89.6	89.2	88.8	88.4	88.0	87.6
75	91.2	90.8	90.4	90.0	89.6	89.3	88.9	88.5	88.1	87.7
76	91.3	90.9	90.5	90.1	89.7	89.3	88.9	88.5	88.2	87.8
77	91.4	91.0	90.6	90.2	89.8	89.4	89.0	88.6	88.2	87.9
78	91.4	91.0	90.7	90.3	89.9	89.5	89.1	88.7	88.3	87.9
79	91.5	91.1	90.7	90.3	89.9	89.6	89.2	88.8	88.4	88.0
80	91.6	91.2	90.8	90.4	90.0	89.6	89.3	88.9	88.5	88.1
81	91.6	91.2	90.9	90.5	90.1	89.7	89.3	89.0	88.6	88.2
82	91.7	91.3	90.9	90.5	90.2	89.8	89.4	89.0	88.7	88.3
83	91.7	91.4	91.0	90.6	90.2	89.9	89.5	89.1	88.7	88.4
84	91.8	91.4	91.0	90.7	90.3	89.9	89.6	89.2	88.8	88.4
85	91.9	91.5	91.1	90.7	90.4	90.0	89.6	89.3	88.9	88.5
86	91.9	91.5	91.2	90.8	90.4	90.1	89.7	89.3	89.0	88.6
87	92.0	91.6	91.2	90.9	90.5	90.1	89.8	89.4	89.0	88.7
88	92.0	91.7	91.3	90.9	90.6	90.2	89.8	89.5	89.1	88.8
89	92.1	91.7	91.3	91.0	90.6	90.3	89.9	89.5	89.2	88.8
90	92.1	91.8	91.4	91.0	90.7	90.3	90.0	89.6	89.3	88.9
91	92.2	91.8	91.5	91.1	90.7	90.4	90.0	89.7	89.3	89.0
92	92.2	91.9	91.5	91.2	90.8	90.5	90.1	89.8	89.4	89.1
93	92.3	91.9	91.6	91.2	90.9	90.5	90.2	89.8	89.5	89.1
94	92.3	92.0	91.6	91.3	90.9	90.6	90.2	89.9	89.5	89.2
95	92.4	92.0	91.7	91.3	91.0	90.6	90.3	89.9	89.6	89.3
96	92.4	92.1	91.7	91.4	91.0	90.7	90.4	90.0	89.7	89.3
97	92.5	92.1	91.8	91.4	91.1	90.8	90.4	90.1	89.7	89.4
98	92.5	92.2	91.8	91.5	91.2	90.8	90.5	90.1	89.8	89.5
99	92.6	92.2	91.9	91.6	91.2	90.9	90.5	90.2	89.9	89.5
100	92.6	92.3	91.9	91.6	91.3	90.9	90.6	90.3	89.9	89.6

表 5c（续）

t＼t－t_w	3.1	3.2	3.3	3.4	3.5	3.6	3.7	3.8	3.9	4.0
15	72.1	71.2	70.4	69.5	68.7	67.9	67.0	66.2	65.4	64.5
16	72.8	72.0	71.1	70.3	69.5	68.7	67.9	67.1	66.3	65.5
17	73.5	72.7	71.9	71.1	70.3	69.5	68.7	67.9	67.1	66.3
18	74.1	73.3	72.6	71.8	71.0	70.2	69.5	68.7	67.9	67.2
19	74.7	74.0	73.2	72.4	71.7	70.9	70.2	69.4	68.7	68.0
20	75.3	74.6	73.8	73.1	72.3	71.6	70.9	70.1	69.4	68.7
21	75.9	75.1	74.4	73.7	73.0	72.2	71.5	70.8	70.1	69.4
22	76.4	75.7	74.9	74.2	73.5	72.8	72.1	71.4	70.7	70.0
23	76.9	76.2	75.5	74.8	74.1	73.4	72.7	72.0	71.3	70.7
24	77.3	76.6	76.0	75.3	74.6	73.9	73.2	72.6	71.9	71.2
25	77.8	77.1	76.4	75.8	75.1	74.4	73.8	73.1	72.5	71.8
26	78.2	77.5	76.9	76.2	75.6	74.9	74.3	73.6	73.0	72.3
27	78.6	77.9	77.3	76.6	76.0	75.4	74.7	74.1	73.5	72.8
28	79.0	78.3	77.7	77.1	76.4	75.8	75.2	74.6	73.9	73.3
29	79.3	78.7	78.1	77.4	76.8	76.2	75.6	75.0	74.4	73.8
30	79.7	79.0	78.4	77.8	77.2	76.6	76.0	75.4	74.8	74.2
31	80.0	79.4	78.8	78.2	77.6	77.0	76.4	75.8	75.2	74.6
32	80.3	79.7	79.1	78.5	77.9	77.3	76.8	76.2	75.6	75.0
33	80.6	80.0	79.4	78.8	78.3	77.7	77.1	76.5	76.0	75.4
34	80.9	80.3	79.7	79.2	78.6	78.0	77.5	76.9	76.3	75.8
35	81.2	80.6	80.0	79.5	78.9	78.3	77.8	77.2	76.7	76.1
36	81.4	80.9	80.3	79.7	79.2	78.6	78.1	77.5	77.0	76.5
37	81.7	81.1	80.6	80.0	79.5	78.9	78.4	77.9	77.3	76.8
38	81.9	81.4	80.8	80.3	79.8	79.2	78.7	78.1	77.6	77.1
39	82.2	81.6	81.1	80.5	80.0	79.5	79.0	78.4	77.9	77.4
40	82.4	81.8	81.3	80.8	80.3	79.7	79.2	78.7	78.2	77.7
41	82.6	82.1	81.6	81.0	80.5	80.0	79.5	79.0	78.5	77.9
42	82.8	82.3	81.8	81.3	80.7	80.2	79.7	79.2	78.7	78.2
43	83.0	82.5	82.0	81.5	81.0	80.5	80.0	79.5	79.0	78.5
44	83.2	82.7	82.2	81.7	81.2	80.7	80.2	79.7	79.2	78.7
45	83.4	82.9	82.4	81.9	81.4	80.9	80.4	79.9	79.4	79.0
46	83.6	83.1	82.6	82.1	81.6	81.1	80.6	80.2	79.7	79.2
47	83.8	83.3	82.8	82.3	81.8	81.3	80.8	80.4	79.9	79.4
48	83.9	83.4	83.0	82.5	82.0	81.5	81.0	80.6	80.1	79.6
49	84.1	83.6	83.1	82.7	82.2	81.7	81.2	80.8	80.3	79.8
50	84.3	83.8	83.3	82.8	82.4	81.9	81.4	81.0	80.5	80.0
51	84.4	84.0	83.5	83.0	82.5	82.1	81.6	81.2	80.7	80.2
52	84.6	84.1	83.6	83.2	82.7	82.3	81.8	81.3	80.9	80.4
53	84.7	84.3	83.8	83.3	82.9	82.4	82.0	81.5 ·	81.1	80.6
54	84.9	84.4	84.0	83.5	83.1	82.6	82.2	81.7	81.3	80.8
55	85.0	84.6	84.1	83.7	83.2	82.8	82.3	81.9	81.4	81.0
56	85.2	84.7	84.3	83.8	83.4	82.9	82.5	82.0	81.6	81.2
57	85.3	84.8	84.4	84.0	83.5	83.1	82.6	82.2	·81.8	81.3

表 5c（续）

t \ t−t_w	3.1	3.2	3.3	3.4	3.5	3.6	3.7	3.8	3.9	4.0
58	85.4	85.0	84.5	84.1	83.7	83.2	82.8	82.4	81.9	81.5
59	85.6	85.1	84.7	84.2	83.8	83.4	82.9	82.5	82.1	81.7
60	85.7	85.2	84.8	84.4	83.9	83.5	83.1	82.7	82.2	81.8
61	85.8	85.4	84.9	84.5	84.1	83.7	83.2	82.8	82.4	82.0
62	85.9	85.5	85.1	84.6	84.2	83.8	83.4	83.0	82.5	82.1
63	86.0	85.6	85.2	84.8	84.4	83.9	83.5	83.1	82.7	82.3
64	86.2	85.7	85.3	84.9	84.5	84.1	83.7	83.2	82.8	82.4
65	86.3	85.9	85.4	85.0	84.6	84.2	83.8	83.4	83.0	82.6
66	86.4	86.0	85.6	85.1	84.7	84.3	83.9	83.5	83.1	82.7
67	86.5	86.1	85.7	85.3	84.9	84.4	84.0	83.6	83.2	82.8
68	86.6	86.2	85.8	85.4	85.0	84.6	84.2	83.8	83.4	83.0
69	86.7	86.3	85.9	85.5	85.1	84.7	84.3	83.9	83.5	83.1
70	86.8	86.4	86.0	85.6	85.2	84.8	84.4	84.0	83.6	83.2
71	86.9	86.5	86.1	85.7	85.3	84.9	84.5	84.1	83.8	83.4
72	87.0	86.6	86.2	85.8	85.4	85.0	84.6	84.3	83.9	83.5
73	87.1	86.7	86.3	85.9	85.5	85.1	84.8	84.4	84.0	83.6
74	87.2	86.8	86.4	86.0	85.6	85.3	84.9	84.5	84.1	83.7
75	87.3	86.9	86.5	86.1	85.7	85.4	85.0	84.6	84.2	83.9
76	87.4	87.0	86.6	86.2	85.9	85.5	85.1	84.7	84.3	84.0
77	87.5	87.1	86.7	86.3	86.0	85.6	85.2	84.8	84.5	84.1
78	87.6	87.2	86.8	86.4	86.1	85.7	85.3	84.9	84.6	84.2
79	87.7	87.3	86.9	86.5	86.2	85.8	85.4	85.0	84.7	84.3
80	87.7	87.4	87.0	86.6	86.3	85.9	85.5	85.1	84.8	84.4
81	87.8	87.5	87.1	86.7	86.3	86.0	85.6	85.3	84.9	84.5
82	87.9	87.5	87.2	86.8	86.4	86.1	85.7	85.4	85.0	84.6
83	88.0	87.6	87.3	86.9	86.5	86.2	85.8	85.5	85.1	84.7
84	88.1	87.7	87.4	87.0	86.6	86.3	85.9	85.6	85.2	84.8
85	88.2	87.8	87.4	87.1	86.7	86.4	86.0	85.7	85.3	84.9
86	88.2	87.9	87.5	87.2	86.8	86.5	86.1	85.7	85.4	85.0
87	88.3	88.0	87.6	87.3	86.9	86.5	86.2	85.8	85.5	85.1
88	88.4	88.0	87.7	87.3	87.0	86.6	86.3	85.9	85.6	85.2
89	88.5	88.1	87.8	87.4	87.1	86.7	86.4	86.0	85.7	85.3
90	88.6	88.2	87.9	87.5	87.2	86.8	86.5	86.1	85.8	85.4
91	88.6	88.3	87.9	87.6	87.2	86.9	86.6	86.2	85.9	85.5
92	88.7	88.4	88.0	87.7	87.3	87.0	86.6	86.3	86.0	85.6
93	88.8	88.4	88.1	87.7	87.4	87.1	86.7	86.4	86.1	85.7
94	88.8	88.5	88.2	87.8	87.5	87.1	86.8	86.5	86.1	85.8
95	88.9	88.6	88.2	87.9	87.6	87.2	86.9	86.6	86.2	85.9
96	89.0	88.7	88.3	88.0	87.6	87.3	87.0	86.6	86.3	86.0
97	89.1	88.7	88.4	88.1	87.7	87.4	87.1	86.7	86.4	86.1
98	89.1	88.8	88.5	88.1	87.8	87.5	87.1	86.8	86.5	86.2
99	89.2	88.9	88.5	88.2	87.9	87.5	87.2	86.9	86.6	86.2
100	89.3	88.9	88.6	88.3	88.0	87.6	87.3	87.0	86.7	86.3

表 5c（续）

$t-t_w$ / t	4.1	4.2	4.3	4.4	4.5	4.6	4.7	4.8	4.9	5.0
15	63.7	62.9	62.1	61.3	60.5	59.7	58.9	58.1	57.3	56.5
16	64.7	63.9	63.1	62.3	61.5	60.7	59.9	59.2	58.4	57.6
17	65.6	64.8	64.0	63.3	62.5	61.7	61.0	60.2	59.5	58.7
18	66.4	65.7	64.9	64.2	63.4	62.7	61.9	61.2	60.5	59.7
19	67.2	66.5	65.7	65.0	64.3	63.6	62.8	62.1	61.4	60.7
20	68.0	67.2	66.5	65.8	65.1	64.4	63.7	63.0	62.3	61.6
21	68.7	68.0	67.3	66.6	65.9	65.2	64.5	63.8	63.1	62.4
22	69.3	68.7	68.0	67.3	66.6	65.9	65.3	64.6	63.9	63.3
23	70.0	69.3	68.6	68.0	67.3	66.6	66.0	65.3	64.7	64.0
24	70.6	69.9	69.3	68.6	68.0	67.3	66.7	66.0	65.4	64.7
25	71.2	70.5	69.9	69.2	68.6	68.0	67.3	66.7	66.1	65.4
26	71.7	71.1	70.4	69.8	69.2	68.6	67.9	67.3	66.7	66.1
27	72.2	71.6	71.0	70.4	69.7	69.1	68.5	67.9	67.3	66.7
28	72.7	72.1	71.5	70.9	70.3	69.7	69.1	68.5	67.9	67.3
29	73.2	72.6	72.0	71.4	70.8	70.2	69.6	69.0	68.4	67.9
30	73.6	73.0	72.4	71.9	71.3	70.7	70.1	69.5	69.0	68.4
31	74.0	73.5	72.9	72.3	71.7	71.2	70.6	70.0	69.5	68.9
32	74.5	73.9	73.3	72.7	72.2	71.6	71.1	70.5	70.0	69.4
33	74.8	74.3	73.7	73.2	72.6	72.1	71.5	71.0	70.4	69.9
34	75.2	74.7	74.1	73.6	73.0	72.5	71.9	71.4	70.8	70.3
35	75.6	75.0	74.5	73.9	73.4	72.9	72.3	71.8	71.3	70.7
36	75.9	75.4	74.8	74.3	73.8	73.2	72.7	72.2	71.7	71.2
37	76.2	75.7	75.2	74.7	74.1	73.6	73.1	72.6	72.1	71.5
38	76.6	76.0	75.5	75.0	74.5	74.0	73.4	72.9	72.4	71.9
39	76.9	76.3	75.8	75.3	74.8	74.3	73.8	73.3	72.8	72.3
40	77.2	76.6	76.1	75.6	75.1	74.6	74.1	73.6	73.1	72.6
41	77.4	76.9	76.4	75.9	75.4	74.9	74.4	74.0	73.5	73.0
42	77.7	77.2	76.7	76.2	75.7	75.2	74.7	74.3	73.8	73.3
43	78.0	77.5	77.0	76.5	76.0	75.5	75.0	74.6	74.1	73.6
44	78.2	77.7	77.3	76.8	76.3	75.8	75.3	74.9	74.4	73.9
45	78.5	78.0	77.5	77.0	76.6	76.1	75.6	75.1	74.7	74.2
46	78.7	78.2	77.8	77.3	76.8	76.3	75.9	75.4	74.9	74.5
47	78.9	78.5	78.0	77.5	77.1	76.6	76.1	75.7	75.2	74.8
48	79.2	78.7	78.2	77.8	77.3	76.8	76.4	75.9	75.5	75.0
49	79.4	78.9	78.5	78.0	77.5	77.1	76.6	76.2	75.7	75.3
50	79.6	79.1	78.7	78.2	77.8	77.3	76.9	76.4	76.0	75.5
51	79.8	79.3	78.9	78.4	78.0	77.5	77.1	76.7	76.2	75.8
52	80.0	79.5	79.1	78.6	78.2	77.8	77.3	76.9	76.4	76.0
53	80.2	79.7	79.3	78.9	78.4	78.0	77.5	77.1	76.7	76.2
54	80.4	79.9	79.5	79.1	78.6	78.2	77.8	77.3	76.9	76.5
55	80.6	80.1	79.7	79.2	78.8	78.4	78.0	77.5	77.1	76.7
56	80.7	80.3	79.9	79.4	79.0	78.6	78.2	77.7	77.3	76.9
57	80.9	80.5	80.0	79.6	79.2	78.8	78.4	77.9	77.5	77.1

表 5c（续）

$t-t_w$ / t	4.1	4.2	4.3	4.4	4.5	4.6	4.7	4.8	4.9	5.0
58	81.1	80.6	80.2	79.8	79.4	79.0	78.5	78.1	77.7	77.3
59	81.2	80.8	80.4	80.0	79.6	79.1	78.7	78.3	77.9	77.5
60	81.4	81.0	80.6	80.2	79.7	79.3	78.9	78.5	78.1	77.7
61	81.6	81.1	80.7	80.3	79.9	79.5	79.1	78.7	78.3	77.9
62	81.7	81.3	80.9	80.5	80.1	79.7	79.3	78.9	78.5	78.1
63	81.9	81.5	81.1	80.6	80.2	79.8	79.4	79.0	78.6	78.2
64	82.0	81.6	81.2	80.8	80.4	80.0	79.6	79.2	78.8	78.4
65	82.2	81.8	81.4	81.0	80.6	80.2	79.8	79.4	79.0	78.6
66	82.3	81.9	81.5	81.1	80.7	80.3	79.9	79.5	79.2	78.8
67	82.4	82.0	81.7	81.3	80.9	80.5	80.1	79.7	79.3	78.9
68	82.6	82.2	81.8	81.4	81.0	80.6	80.2	79.9	79.5	79.1
69	82.7	82.3	81.9	81.5	81.2	80.8	80.4	80.0	79.6	79.3
70	82.8	82.5	82.1	81.7	81.3	80.9	80.5	80.2	79.8	79.4
71	83.0	82.6	82.2	81.8	81.4	81.1	80.7	80.3	79.9	79.6
72	83.1	82.7	82.3	82.0	81.6	81.2	80.8	80.5	80.1	79.7
73	83.2	82.9	82.5	82.1	81.7	81.3	81.0	80.6	80.2	79.9
74	83.4	83.0	82.6	82.2	81.9	81.5	81.1	80.7	80.4	80.0
75	83.5	83.1	82.7	82.4	82.0	81.6	81.2	80.9	80.5	80.2
76	83.6	83.2	82.9	82.5	82.1	81.7	81.4	81.0	80.7	80.3
77	83.7	83.3	83.0	82.6	82.2	81.9	81.5	81.2	80.8	80.4
78	83.8	83.5	83.1	82.7	82.4	82.0	81.6	81.3	80.9	80.6
79	83.9	83.6	83.2	82.9	82.5	82.1	81.8	81.4	81.1	80.7
80	84.1	83.7	83.3	83.0	82.6	82.3	81.9	81.5	81.2	80.8
81	84.2	83.8	83.4	83.1	82.7	82.4	82.0	81.7	81.3	81.0
82	84.3	83.9	83.6	83.2	82.9	82.5	82.1	81.8	81.4	81.1
83	84.4	84.0	83.7	83.3	83.0	82.6	82.3	81.9	81.6	81.2
84	84.5	84.1	83.8	83.4	83.1	82.7	82.4	82.0	81.7	81.4
85	84.6	84.2	83.9	83.5	83.2	82.9	82.5	82.2	81.8	81.5
86	84.7	84.3	84.0	83.7	83.3	83.0	82.6	82.3	81.9	81.6
87	84.8	84.5	84.1	83.8	83.4	83.1	82.7	82.4	82.1	81.7
88	84.9	84.6	84.2	83.9	83.5	83.2	82.8	82.5	82.2	81.8
89	85.0	84.7	84.3	84.0	83.6	83.3	83.0	82.6	82.3	82.0
90	85.1	84.8	84.4	84.1	83.7	83.4	83.1	82.7	82.4	82.1
91	85.2	84.9	84.5	84.2	83.8	83.5	83.2	82.8	82.5	82.2
92	85.3	85.0	84.6	84.3	83.9	83.6	83.3	83.0	82.6	82.3
93	85.4	85.0	84.7	84.4	84.1	83.7	83.4	83.1	82.7	82.4
94	85.5	85.1	84.8	84.5	84.2	83.8	83.5	83.2	82.8	82.5
95	85.6	85.2	84.9	84.6	84.3	83.9	83.6	83.3	83.0	82.6
96	85.7	85.3	85.0	84.7	84.4	84.0	83.7	83.4	83.1	82.7
97	85.7	85.4	85.1	84.8	84.4	84.1	83.8	83.5	83.2	82.8
98	85.8	85.5	85.2	84.9	84.5	84.2	83.9	83.6	83.3	83.0
99	85.9	85.6	85.3	85.0	84.6	84.3	84.0	83.7	83.4	83.1
100	86.0	85.7	85.4	85.1	84.7	84.4	84.1	83.8	83.5	83.2

表 5c（续）

t ＼ $t-t_w$	5.2	5.4	5.6	5.8	6.0	6.2	6.4	6.6	6.8	7.0
15	54.9	53.3	51.8	50.2	48.7	47.1	45.6	44.1	42.6	41.2
16	56.1	54.6	53.0	51.5	50.0	48.6	47.1	45.6	44.2	42.7
17	57.2	55.7	54.2	52.8	51.3	49.9	48.5	47.0	45.6	44.2
18	58.3	56.8	55.4	54.0	52.5	51.1	49.7	48.4	47.0	45.6
19	59.3	57.9	56.5	55.1	53.7	52.3	51.0	49.6	48.3	46.9
20	60.2	58.8	57.5	56.1	54.8	53.4	52.1	50.8	49.5	48.2
21	61.1	59.7	58.4	57.1	55.8	54.5	53.2	51.9	50.6	49.4
22	61.9	60.6	59.3	58.0	56.7	55.5	54.2	52.9	51.7	50.5
23	62.7	61.4	60.2	58.9	57.6	56.4	55.2	53.9	52.7	51.5
24	63.5	62.2	61.0	59.7	58.5	57.3	56.1	54.9	53.7	52.5
25	64.2	63.0	61.7	60.5	59.3	58.1	56.9	55.8	54.6	53.4
26	64.9	63.7	62.5	61.3	60.1	58.9	57.8	56.6	55.5	54.3
27	65.5	64.3	63.1	62.0	60.8	59.7	58.5	57.4	56.3	55.2
28	66.1	65.0	63.8	62.7	61.5	60.4	59.3	58.2	57.1	56.0
29	66.7.	65.6	64.4	63.3	62.2	61.1	60.0	58.9	57.8	56.7
30	67.3	66.1	65.0	63.9	62.8	61.7	60.6	59.6	58.5	57.5
31	67.8	66.7	65.6	64.5	63.4	62.3	61.3	60.2	59.2	58.1
32	68.3	67.2	66.1	65.1	64.0	62.9	61.9	60.9	59.8	58.8
33	68.8	67.7	66.6	65.6	64.5	63.5	62.5	61.5	60.4	59.4
34	69.2	68.2	67.1	66.1	65.1	64.0	63.0	62.0	61.0	60.0
35	69.7	68.6	67.6	66.6	65.6	64.6	63.6	62.6	61.6	59.8
36	70.1	69.1	68.1	67.1	66.1	65.1	64.1	63.1	62.1	60.4
37	70.5	69.5	68.5	67.5	66.5	65.5	64.6	63.6	62.6	61.0
38	70.9	69.9	68.9	67.9	67.0	66.0	65.0	64.1	63.1	61.5
39	71.3	70.3	69.3	68.4	67.4	66.4	65.5	64.5	63.6	62.0
40	71.7	70.7	69.7	68.8	67.8	66.9	65.9	65.0	64.1	62.5
41	72.0	71.0	70.1	69.1	68.2	67.3	66.3	65.4	64.5	63.0
42	72.3	71.4	70.4	69.5	68.6	67.7	66.7	65.8	64.9	63.5
43	72.7	71.7	70.8	69.9	68.9	68.0	67.1	66.2	65.3	63.9
44	73.0	72.0	71.1	70.2	69.3	68.4	67.5	66.6	65.7	64.4
45	73.3	72.4	71.4	70.5	69.6	68.8	67.9	67.0	66.1	64.8
46	73.6	72.7	71.8	70.9	70.0	69.1	68.2	67.4	66.5	65.2
47	73.9	73.0	72.1	71.2	70.3	69.4	68.6	67.7	66.8	65.6
48	74.1	73.2	72.4	71.5	70.6	69.7	68.9	68.0	67.2	65.9
49	74.4	73.5	72.6	71.8	70.9	70.1	69.2	68.4	67.5	66.3
50	74.7	73.8	72.9	72.1	71.2	70.4	69.5	68.7	67.9	67.0
51	74.9	74.0	73.2	72.3	71.5	70.6	69.8	69.0	68.2	67.4
52	75.1	74.3	73.4	72.6	71.8	70.9	70.1	69.3	68.5	67.7
53	75.4	74.5	73.7	72.9	72.0	71.2	70.4	69.6	68.8	68.0
54	75.6	74.8	73.9	73.1	72.3	71.5	70.7	69.9	69.1	68.3
55	75.8	75.0	74.2	73.4	72.5	71.7	70.9	70.1	69.3	68.6
56	76.1	75.2	74.4	73.6	72.8	72.0	71.2	70.4	69.6	68.8
57	76.3	75.5	74.6	73.8	73.0	72.2	71.4	70.7	69.9	69.1

表 5c（续）

$t-t_w$ / t	5.2	5.4	5.6	5.8	6.0	6.2	6.4	6.6	6.8	7.0
58	76.5	75.7	74.9	74.1	73.3	72.5	71.7	70.9	70.1	69.4
59	76.7	75.9	75.1	74.3	73.5	72.7	71.9	71.2	70.4	69.6
60	76.9	76.1	75.3	74.5	73.7	72.9	72.2	71.4	70.6	69.9
61	77.1	76.3	75.5	74.7	73.9	73.2	72.4	71.6	70.9	70.1
62	77.3	76.5	75.7	74.9	74.2	73.4	72.6	71.9	71.1	70.4
63	77.5	76.7	75.9	75.1	74.4	73.6	72.8	72.1	71.4	70.6
64	77.6	76.9	76.1	75.3	74.6	73.8	73.1	72.3	71.6	70.9
65	77.8	77.0	76.3	75.5	74.8	74.0	73.3	72.5	71.8	71.1
66	78.0	77.2	76.5	75.7	75.0	74.2	73.5	72.8	72.0	71.3
67	78.2	77.4	76.7	75.9	75.2	74.4	73.7	73.0	72.2	71.5
68	78.3	77.6	76.8	76.1	75.3	74.6	73.9	73.2	72.5	71.7
69	78.5	77.7	77.0	76.3	75.5	74.8	74.1	73.4	72.7	71.9
70	78.7	77.9	77.2	76.4	75.7	75.0	74.3	73.6	72.9	72.2
71	78.8	78.1	77.3	76.6	75.9	75.2	74.5	73.8	73.1	72.4
72	79.0	78.2	77.5	76.8	76.1	75.4	74.7	73.9	73.3	72.6
73	79.1	78.4	77.7	77.0	76.2	75.5	74.8	74.1	73.4	72.8
74	79.3	78.6	77.8	77.1	76.4	75.7	75.0	74.3	73.6	72.9
75	79.4	78.7	78.0	77.3	76.6	75.9	75.2	74.5	73.8	73.1
76	79.6	78.9	78.2	77.4	76.7	76.1	75.4	74.7	74.0	73.3
77	79.7	79.0	78.3	77.6	76.9	76.2	75.5	74.9	74.2	73.5
78	79.9	79.2	78.5	77.8	77.1	76.4	75.7	75.0	74.4	73.7
79	80.0	79.3	78.6	77.9	77.2	76.5	75.9	75.2	74.5	73.9
80	80.1	79.4	78.8	78.1	77.4	76.7	76.0	75.4	74.7	74.0
81	80.3	79.6	78.9	78.2	77.5	76.9	76.2	75.5	74.9	74.2
82	80.4	79.7	79.0	78.4	77.7	77.0	76.4	75.7	75.0	74.4
83	80.5	79.9	79.2	78.5	77.8	77.2	76.5	75.9	75.2	74.6
84	80.7	80.0	79.3	78.6	78.0	77.3	76.7	76.0	75.4	74.7
85	80.8	80.1	79.5	78.8	78.1	77.5	76.8	76.2	75.5	74.9
86	80.9	80.3	79.6	78.9	78.3	77.6	77.0	76.3	75.7	75.0
87	81.0	80.4	79.7	79.1	78.4	77.8	77.1	76.5	75.8	75.2
88	81.2	80.5	79.9	79.2	78.5	77.9	77.3	76.6	76.0	75.4
89	81.3	80.6	80.0	79.3	78.7	78.0	77.4	76.8	76.1	75.5
90	81.4	80.8	80.1	79.5	78.8	78.2	77.5	76.9	76.3	75.7
91	81.5	80.9	80.2	79.6	79.0	78.3	77.7	77.1	76.4	75.8
92	81.6	81.0	80.4	79.7	79.1	78.5	77.8	77.2	76.6	76.0
93	81.8	81.1	80.5	79.8	79.2	78.6	78.0	77.3	76.7	76.1
94	81.9	81.2	80.6	80.0	79.3	78.7	78.1	77.5	76.9	76.3
95	82.0	81.4	80.7	80.1	79.5	78.8	78.2	77.6	77.0	76.4
96	82.1	81.5	80.8	80.2	79.6	79.0	78.4	77.8	77.1	76.5
97	82.2	81.6	81.0	80.3	79.7	79.1	78.5	77.9	77.3	76.7
98	82.3	81.7	81.1	80.5	79.8	79.2	78.6	78.0	77.4	76.8
99	82.4	81.8	81.2	80.6	80.0	79.4	78.8	78.2	77.6	77.0
100	82.5	81.9	81.3	80.7	80.1	79.5	78.9	78.3	77.7	77.1

表 5c（续）

t＼t－t_w	7.2	7.4	7.6	7.8	8.0	8.2	8.4	8.6	8.8	9.0
15	39.7	38.2	36.8	35.3	33.9	32.5	31.1	29.6	28.3	26.9
16	41.3	39.9	38.5	37.1	35.7	34.3	32.9	31.6	30.2	28.9
17	42.8	41.4	40.1	38.7	37.4	36.0	34.7	33.4	32.1	30.7
18	44.3	42.9	41.6	40.3	38.9	37.6	36.3	35.1	33.8	32.5
19	45.6	44.3	43.0	41.7	40.4	39.2	37.9	36.7	35.4	34.2
20	46.9	45.6	44.3	43.1	41.8	40.6	39.4	38.2	36.9	35.7
21	48.1	46.8	45.6	44.4	43.2	42.0	40.8	39.6	38.4	37.2
22	49.2	48.0	46.8	45.6	44.4	43.2	42.1	40.9	39.7	38.6
23	50.3	49.1	47.9	46.8	45.6	44.4	43.3	42.2	41.0	39.9
24	51.3	50.2	49.0	47.9	46.7	45.6	44.5	43.4	42.2	41.2
25	52.3	51.1	50.0	48.9	47.8	46.7	45.6	44.5	43.4	42.3
26	53.2	52.1	51.0	49.9	48.8	47.7	46.6	45.5	44.5	43.4
27	54.1	53.0	51.9	50.8	49.7	48.7	47.6	46.6	45.5	44.5
28	54.9	53.8	52.7	51.7	50.6	49.6	48.6	47.5	46.5	45.5
29	55.7	54.6	53.6	52.5	51.5	50.5	49.4	48.4	47.4	46.5
30	56.4	55.4	54.3	53.3	52.3	51.3	50.3	49.3	48.3	47.4
31	57.1	56.1	55.1	54.1	53.1	52.1	51.1	50.1	49.2	48.2
32	57.8	56.8	55.8	54.8	53.8	52.9	51.9	50.9	50.0	49.0
33	58.4	57.5	56.5	55.5	54.5	53.6	52.6	51.7	50.7	49.8
34	59.1	58.1	57.1	56.2	55.2	54.3	53.3	52.4	51.5	50.6
35	59.6	58.7	57.7	56.8	55.9	54.9	54.0	53.1	52.2	51.3
36	60.2	59.3	58.3	57.4	56.5	55.6	54.7	53.7	52.9	52.0
37	60.8	59.8	58.9	58.0	57.1	56.2	55.3	54.4	53.5	52.6
38	61.3	60.4	59.4	58.5	57.6	56.7	55.9	55.0	54.1	53.3
39	61.8	60.9	60.0	59.1	58.2	57.3	56.4	55.6	54.7	53.9
40	62.3	61.4	60.5	59.6	58.7	57.8	57.0	56.1	55.3	54.4
41	62.7	61.8	61.0	60.1	59.2	58.4	57.5	56.7	55.8	55.0
42	63.2	62.3	61.4	60.6	59.7	58.9	58.0	57.2	56.3	55.5
43	63.6	62.7	61.9	61.0	60.2	59.3	58.5	57.7	56.9	56.0
44	64.0	63.1	62.3	61.5	60.6	59.8	59.0	58.2	57.3	56.5
45	64.4	63.6	62.7	61.9	61.1	60.2	59.4	58.6	57.8	57.0
46	64.8	64.0	63.1	62.3	61.5	60.7	59.9	59.1	58.3	57.5
47	65.2	64.3	63.5	62.7	61.9	61.1	60.3	59.5	58.7	57.9
48	65.5	64.7	63.9	63.1	62.3	61.5	60.7	59.9	59.1	58.4
49	65.9	65.1	64.3	63.5	62.7	61.9	61.1	60.3	59.5	58.8
50	66.2	65.4	64.6	63.8	63.0	62.2	61.5	60.7	59.9	59.2
51	66.5	65.7	65.0	64.2	63.4	62.6	61.8	61.1	60.3	59.6
52	66.9	66.1	65.3	64.5	63.7	63.0	62.2	61.5	60.7	60.0
53	67.2	66.4	65.6	64.8	64.1	63.3	62.6	61.8	61.1	60.3
54	67.5	66.7	65.9	65.2	64.4	63.7	62.9	62.2	61.4	60.7
55	67.8	67.0	66.2	65.5	64.7	64.0	63.2	62.5	61.8	61.0
56	68.1	67.3	66.5	65.8	65.0	64.3	63.6	62.8	62.1	61.4
57	68.3	67.6	66.8	66.1	65.3	64.6	63.9	63.2	62.4	61.7

表 5c（续）

$t{-}t_w$ / t	7.2	7.4	7.6	7.8	8.0	8.2	8.4	8.6	8.8	9.0
58	68.6	67.9	67.1	66.4	65.6	64.9	64.2	63.5	62.8	62.0
59	68.9	68.1	67.4	66.7	65.9	65.2	64.5	63.8	63.1	62.4
60	69.1	68.4	67.7	66.9	66.2	65.5	64.8	64.1	63.4	62.7
61	69.4	68.7	67.9	67.2	66.5	65.8	65.1	64.4	63.7	63.0
62	69.6	68.9	68.2	67.5	66.8	66.1	65.3	64.6	64.0	63.3
63	69.9	69.2	68.4	67.7	67.0	66.3	65.6	64.9	64.2	63.6
64	70.1	69.4	68.7	68.0	67.3	66.6	65.9	65.2	64.5	63.8
65	70.4	69.6	68.9	68.2	67.5	66.8	66.2	65.5	64.8	64.1
66	70.6	69.9	69.2	68.5	67.8	67.1	66.4	65.7	65.1	64.4
67	70.8	70.1	69.4	68.7	68.0	67.3	66.7	66.0	65.3	64.7
68	71.0	70.3	69.6	68.9	68.3	67.6	66.9	66.2	65.6	64.9
69	71.2	70.6	69.9	69.2	68.5	67.8	67.1	66.5	65.8	65.2
70	71.5	70.8	70.1	69.4	68.7	68.1	67.4	66.7	66.1	65.4
71	71.7	71.0	70.3	69.6	68.9	68.3	67.6	67.0	66.3	65.7
72	71.9	71.2	70.5	69.8	69.2	68.5	67.8	67.2	66.5	65.9
73	72.1	71.4	70.7	70.1	69.4	68.7	68.1	67.4	66.8	66.1
74	72.3	71.6	70.9	70.3	69.6	68.9	68.3	67.7	67.0	66.4
75	72.5	71.8	71.1	70.5	69.8	69.2	68.5	67.9	67.2	66.6
76	72.7	72.0	71.3	70.7	70.0	69.4	68.7	68.1	67.5	66.8
77	72.8	72.2	71.5	70.9	70.2	69.6	68.9	68.3	67.7	67.1
78	73.0	72.4	71.7	71.1	70.4	69.8	69.1	68.5	67.9	67.3
79	73.2	72.6	71.9	71.3	70.6	70.0	69.4	68.7	68.1	67.5
80	73.4	72.7	72.1	71.4	70.8	70.2	69.6	68.9	68.3	67.7
81	73.6	72.9	72.3	71.6	71.0	70.4	69.8	69.1	68.5	67.9
82	73.7	73.1	72.5	71.8	71.2	70.6	69.9	69.3	68.7	68.1
83	73.9	73.3	72.6	72.0	71.4	70.8	70.1	69.5	68.9	68.3
84	74.1	73.4	72.8	72.2	71.6	70.9	70.3	69.7	69.1	68.5
85	74.2	73.6	73.0	72.4	71.7	71.1	70.5	69.9	69.3	68.7
86	74.4	73.8	73.2	72.5	71.9	71.3	70.7	70.1	69.5	68.9
87	74.6	73.9	73.3	72.7	72.1	71.5	70.9	70.3	69.7	69.1
88	74.7	74.1	73.5	72.9	72.3	71.7	71.1	70.5	69.9	69.3
89	74.9	74.3	73.7	73.0	72.4	71.8	71.2	70.7	70.1	69.5
90	75.0	74.4	73.8	73.2	72.6	72.0	71.4	70.8	70.2	69.7
91	75.2	74.6	74.0	73.4	72.8	72.2	71.6	71.0	70.4	69.8
92	75.4	74.7	74.1	73.5	72.9	72.4	71.8	71.2	70.6	70.0
93	75.5	74.9	74.3	73.7	73.1	72.5	71.9	71.4	70.8	70.2
94	75.7	75.1	74.5	73.9	73.3	72.7	72.1	71.5	70.9	70.4
95	75.8	75.2	74.6	74.0	73.4	72.8	72.3	71.7	71.1	70.6
96	75.9	75.4	74.8	74.2	73.6	73.0	72.4	71.9	71.3	70.7
97	76.1	75.5	74.9	74.3	73.7	73.2	72.6	72.0	71.5	70.9
98	76.2	75.6	75.1	74.5	73.9	73.3	72.8	72.2	71.6	71.1
99	76.4	75.8	75.2	74.6	74.1	73.5	72.9	72.3	71.8	71.2
100	76.5	75.9	75.4	74.8	74.2	73.6	73.1	72.5	72.0	71.4

表 5c（续）

$t{-}t_w$ / t	9.2	9.4	9.6	9.8	10.0	10.2	10.4	10.6	10.8	11.0
15	25.5	24.1	22.8	21.4	20.1	18.7	17.4	16.1	14.8	13.5
16	27.5	26.2	24.9	23.6	22.3	21.0	19.7	18.4	17.2	15.9
17	29.4	28.2	26.9	25.6	24.4	23.1	21.9	20.6	19.4	18.2
18	31.3	30.0	28.8	27.5	26.3	25.1	23.9	22.7	21.5	20.3
19	32.9	31.7	30.5	29.3	28.1	26.9	25.8	24.6	23.4	22.3
20	34.5	33.4	32.2	31.0	29.8	28.7	27.5	26.4	25.3	24.2
21	36.0	34.9	33.7	32.6	31.5	30.3	29.2	28.1	27.0	25.9
22	37.5	36.3	35.2	34.1	33.0	31.9	30.8	29.7	28.7	27.6
23	38.8	37.7	36.6	35.5	34.4	33.4	32.3	31.2	30.2	29.2
24	40.1	39.0	37.9	36.9	35.8	34.8	33.7	32.7	31.7	30.6
25	41.3	40.2	39.2	38.1	37.1	36.1	35.1	34.0	33.0	32.0
26	42.4	41.4	40.3	39.3	38.3	37.3	36.3	35.3	34.3	33.4
27	43.5	42.5	41.5	40.5	39.5	38.5	37.5	36.5	35.6	34.6
28	44.5	43.5	42.5	41.5	40.6	39.6	38.6	37.7	36.8	35.8
29	45.5	44.5	43.5	42.6	41.6	40.7	39.7	38.8	37.9	37.0
30	46.4	45.4	44.5	43.5	42.6	41.7	40.8	39.8	38.9	38.0
31	47.3	46.3	45.4	44.5	43.5	42.6	41.7	40.8	39.9	39.1
32	48.1	47.2	46.3	45.3	44.4	43.5	42.7	41.8	40.9	40.0
33	48.9	48.0	47.1	46.2	45.3	44.4	43.5	42.7	41.8	41.0
34	49.7	48.8	47.9	47.0	46.1	45.2	44.4	43.5	42.7	41.8
35	50.4	49.5	48.6	47.8	46.9	46.0	45.2	44.4	43.5	42.7
36	51.1	50.2	49.4	48.5	47.6	46.8	46.0	45.1	44.3	43.5
37	51.8	50.9	50.0	49.2	48.4	47.5	46.7	45.9	45.1	44.3
38	52.4	51.5	50.7	49.9	49.0	48.2	47.4	46.6	45.8	45.0
39	53.0	52.2	51.3	50.5	49.7	48.9	48.1	47.3	46.5	45.7
40	53.6	52.8	52.0	51.1	50.3	49.5	48.7	47.9	47.2	46.4
41	54.2	53.3	52.5	51.7	50.9	50.1	49.4	48.6	47.8	47.0
42	54.7	53.9	53.1	52.3	51.5	50.7	50.0	49.2	48.4	47.7
43	55.2	54.4	53.6	52.9	52.1	51.3	50.5	49.8	49.0	48.3
44	55.7	55.0	54.2	53.4	52.6	51.9	51.1	50.3	49.6	48.9
45	56.2	55.4	54.7	53.9	53.1	52.4	51.6	50.9	50.2	49.4
46	56.7	55.9	55.2	54.4	53.6	52.9	52.2	51.4	50.7	50.0
47	57.2	56.4	55.6	54.9	54.1	53.4	52.7	51.9	51.2	50.5
48	57.6	56.8	56.1	55.3	54.6	53.9	53.1	52.4	51.7	51.0
49	58.0	57.3	56.5	55.8	55.1	54.3	53.6	52.9	52.2	51.5
50	58.4	57.7	57.0	56.2	55.5	54.8	54.1	53.4	52.6	52.0
51	58.8	58.1	57.4	56.6	55.9	55.2	54.5	53.8	53.1	52.4
52	59.2	58.5	57.8	57.1	56.3	55.6	54.9	54.2	53.5	52.9
53	59.6	58.9	58.2	57.4	56.7	56.0	55.3	54.7	54.0	53.3
54	60.0	59.3	58.5	57.8	57.1	56.4	55.7	55.1	54.4	53.7
55	60.3	59.6	58.9	58.2	57.5	56.8	56.1	55.5	54.8	54.1
56	60.7	60.0	59.3	58.6	57.9	57.2	56.5	55.8	55.2	54.5
57	61.0	60.3	59.6	58.9	58.2	57.6	56.9	56.2	55.6	54.9

表 5c（续）

t ＼ t−tw	9.2	9.4	9.6	9.8	10.0	10.2	10.4	10.6	10.8	11.0
58	61.3	60.6	60.0	59.3	58.6	57.9	57.2	56.6	55.9	55.3
59	61.7	61.0	60.3	59.6	58.9	58.3	57.6	56.9	56.3	55.6
60	62.0	61.3	60.6	59.9	59.3	58.6	57.9	57.3	56.6	56.0
61	62.3	61.6	60.9	60.3	59.6	58.9	58.3	57.6	57.0	56.3
62	62.6	61.9	61.2	60.6	59.9	59.3	58.6	58.0	57.3	56.7
63	62.9	62.2	61.5	60.9	60.2	59.6	58.9	58.3	57.6	57.0
64	63.2	62.5	61.8	61.2	60.5	59.9	59.2	58.6	58.0	57.3
65	63.4	62.8	62.1	61.5	60.8	60.2	59.5	58.9	58.3	57.7
66	63.7	63.1	62.4	61.8	61.1	60.5	59.8	59.2	58.6	58.0
67	64.0	63.3	62.7	62.0	61.4	60.8	60.1	59.5	58.9	58.3
68	64.3	63.6	63.0	62.3	61.7	61.1	60.4	59.8	59.2	58.6
69	64.5	63.9	63.2	62.6	62.0	61.3	60.7	60.1	59.5	58.9
70	64.8	64.1	63.5	62.9	62.2	61.6	61.0	60.4	59.8	59.2
71	65.0	64.4	63.7	63.1	62.5	61.9	61.3	60.6	60.0	59.4
72	65.3	64.6	64.0	63.4	62.8	62.1	61.5	60.9	60.3	59.7
73	65.5	64.9	64.2	63.6	63.0	62.4	61.8	61.2	60.6	60.0
74	65.7	65.1	64.5	63.9	63.3	62.7	62.0	61.4	60.9	60.3
75	66.0	65.4	64.7	64.1	63.5	62.9	62.3	61.7	61.1	60.5
76	66.2	65.6	65.0	64.4	63.8	63.1	62.6	62.0	61.4	60.8
77	66.4	65.8	65.2	64.6	64.0	63.4	62.8	62.2	61.6	61.0
78	66.7	66.0	65.4	64.8	64.2	63.6	63.0	62.5	61.9	61.3
79	66.9	66.3	65.7	65.1	64.5	63.9	63.3	62.7	62.1	61.5
80	67.1	66.5	65.9	65.3	64.7	64.1	63.5	62.9	62.4	61.8
81	67.3	66.7	66.1	65.5	64.9	64.3	63.7	63.2	62.6	62.0
82	67.5	66.9	66.3	65.7	65.1	64.5	64.0	63.4	62.8	62.3
83	67.7	67.1	66.5	65.9	65.4	64.8	64.2	63.6	63.1	62.5
84	67.9	67.3	66.7	66.1	65.6	65.0	64.4	63.8	63.3	62.7
85	68.1	67.5	66.9	66.4	65.8	65.2	64.6	64.1	63.5	62.9
86	68.3	67.7	67.1	66.6	66.0	65.4	64.8	64.3	63.7	63.2
87	68.5	67.9	67.3	66.8	66.2	65.6	65.1	64.5	63.9	63.4
88	68.7	68.1	67.5	67.0	66.4	65.8	65.3	64.7	64.2	63.6
89	68.9	68.3	67.7	67.2	66.6	66.0	65.5	64.9	64.4	63.8
90	69.1	68.5	67.9	67.4	66.8	66.2	65.7	65.1	64.6	64.0
91	69.3	68.7	68.1	67.6	67.0	66.4	65.9	65.3	64.8	64.2
92	69.4	68.9	68.3	67.8	67.2	66.6	66.1	65.5	65.0	64.5
93	69.6	69.1	68.5	67.9	67.4	66.8	66.3	65.7	65.2	64.7
94	69.8	69.2	68.7	68.1	67.6	67.0	66.5	65.9	65.4	64.9
95	70.0	69.4	68.9	68.3	67.8	67.2	66.7	66.1	65.6	65.1
96	70.2	69.6	69.0	68.5	67.9	67.4	66.9	66.3	65.8	65.3
97	70.3	69.8	69.2	68.7	68.1	67.6	67.1	66.5	66.0	65.5
98	70.5	70.0	69.4	68.9	68.3	67.8	67.2	66.7	66.2	65.7
99	70.7	70.1	69.6	69.0	68.5	68.0	67.4	66.9	66.4	65.8
100	70.8	70.3	69.8	69.2	68.7	68.1	67.6	67.1	66.6	66.0

表 5c（续）

$t-t_w$ / t	11.5	12.0	12.5	13.5	13.5	14.0	14.5	15.0	15.5	16.0
15	10.3	7.2	4.0	1.0						
16	12.8	9.8	6.8	3.8	0.9					
17	15.2	12.2	9.3	6.4	3.6	0.8				
18	17.4	14.5	11.7	8.9	6.2	3.5	0.8			
19	19.4	16.7	13.9	11.2	8.5	5.9	3.4	0.8		
20	21.4	18.7	16.0	13.4	10.8	8.3	5.8	3.3	0.9	
21	23.2	20.6	18.0	15.4	12.9	10.4	8.0	5.6	3.3	1.0
22	25.0	22.4	19.8	17.4	14.9	12.5	10.1	7.8	5.5	3.3
23	26.6	24.1	21.6	19.2	16.8	14.5	12.1	9.9	7.7	5.5
24	28.1	25.7	23.3	20.9	18.6	16.3	14.0	11.8	9.7	7.5
25	29.6	27.2	24.8	22.5	20.2	18.0	15.8	13.7	11.5	9.5
26	31.0	28.6	26.3	24.1	21.8	19.6	17.5	15.4	13.3	11.3
27	32.3	30.0	27.7	25.5	23.3	21.2	19.1	17.0	15.0	13.0
28	33.5	31.3	29.0	26.9	24.7	22.7	20.6	18.6	16.6	14.7
29	34.7	32.5	30.3	28.2	26.1	24.0	22.0	20.1	18.1	16.2
30	35.8	33.6	31.5	29.4	27.4	25.4	23.4	21.4	19.5	17.7
31	36.9	34.7	32.6	30.6	28.6	26.6	24.7	22.8	20.9	19.1
32	37.9	35.8	33.7	31.7	29.7	27.8	25.9	24.0	22.2	20.4
33	38.8	36.8	34.8	32.8	30.8	28.9	27.0	25.2	23.4	21.7
34	39.8	37.7	35.7	33.8	31.9	30.0	28.2	26.4	24.6	22.8
35	40.6	38.6	36.7	34.8	32.9	31.0	29.2	27.4	25.7	24.0
36	41.5	39.5	37.6	35.7	33.8	32.0	30.2	28.5	26.8	25.1
37	42.3	40.3	38.4	36.6	34.7	32.9	31.2	29.5	27.8	26.1
38	43.0	41.1	39.2	37.4	35.6	33.8	32.1	30.4	28.7	27.1
39	43.8	41.9	40.0	38.2	36.4	34.7	33.0	31.3	29.7	28.0
40	44.5	42.6	40.8	39.0	37.2	35.5	33.8	32.2	30.5	28.9
41	45.2	43.3	41.5	39.7	38.0	36.3	34.6	33.0	31.4	29.8
42	45.8	44.0	42.2	40.4	38.7	37.0	35.4	33.8	32.2	30.6
43	46.4	44.6	42.9	41.1	39.4	37.8	36.1	34.5	33.0	31.4
44	47.0	45.3	43.5	41.8	40.1	38.5	36.9	35.3	33.7	32.2
45	47.6	45.9	44.1	42.4	40.8	39.1	37.5	36.0	34.4	32.9
46	48.2	46.4	44.7	43.0	41.4	39.8	38.2	36.7	35.1	33.7
47	48.7	47.0	45.3	43.6	42.0	40.4	38.8	37.3	35.8	34.3
48	49.2	47.5	45.8	44.2	42.6	41.0	39.5	37.9	36.5	35.0
49	49.7	48.0	46.4	44.7	43.2	41.6	40.1	38.5	37.1	35.6
50	50.2	48.5	46.9	45.3	43.7	42.1	40.6	39.1	37.7	36.2
51	50.7	49.0	47.4	45.8	44.2	42.7	41.2	39.7	38.3	36.8
52	51.2	49.5	47.9	46.3	44.7	43.2	41.7	40.3	38.8	37.4
53	51.6	50.0	48.4	46.8	45.2	43.7	42.2	40.8	39.4	38.0
54	52.0	50.4	48.8	47.3	45.7	44.2	42.7	41.3	39.9	38.5
55	52.5	50.8	49.3	47.7	46.2	44.7	43.2	41.8	40.4	39.0
56	52.9	51.3	49.7	48.2	46.6	45.2	43.7	42.3	40.9	39.5
57	53.3	51.7	50.1	48.6	47.1	45.6	44.2	42.8	41.4	40.0

表 5c（续）

$t-t_w$ \ t	11.5	12.0	12.5	13.5	13.5	14.0	14.5	15.0	15.5	16.0
58	53.7	52.1	50.5	49.0	47.5	46.1	44.6	43.2	41.9	40.5
59	54.0	52.5	50.9	49.4	47.9	46.5	45.1	43.7	42.3	41.0
60	54.4	52.8	51.3	49.8	48.4	46.9	45.5	44.1	42.8	41.4
61	54.8	53.2	51.7	50.2	48.8	47.3	45.9	44.5	43.2	41.9
62	55.1	53.6	52.1	50.6	49.1	47.7	46.3	45.0	43.6	42.3
63	55.5	53.9	52.4	51.0	49.5	48.1	46.7	45.4	44.0	42.7
64	55.8	54.3	52.8	51.3	49.9	48.5	47.1	45.8	44.4	43.1
65	56.1	54.6	53.1	51.7	50.3	48.9	47.5	46.2	44.8	43.5
66	56.4	54.9	53.5	52.0	50.6	49.2	47.9	46.5	45.2	43.9
67	56.8	55.3	53.8	52.4	51.0	49.6	48.2	46.9	45.6	44.3
68	57.1	55.6	54.1	52.7	51.3	49.9	48.6	47.3	46.0	44.7
69	57.4	55.9	54.4	53.0	51.6	50.3	48.9	47.6	46.3	45.1
70	57.7	56.2	54.8	53.4	52.0	50.6	49.3	48.0	46.7	45.4
71	58.0	56.5	55.1	53.7	52.3	50.9	49.6	48.3	47.0	45.8
72	58.2	56.8	55.4	54.0	52.6	51.3	49.9	48.6	47.4	46.1
73	58.5	57.1	55.7	54.3	52.9	51.6	50.3	49.0	47.7	46.5
74	58.8	57.4	56.0	54.6	53.2	51.9	50.6	49.3	48.0	46.8
75	59.1	57.6	56.2	54.9	53.5	52.2	50.9	49.6	48.4	47.1
76	59.3	57.9	56.5	55.2	53.8	52.5	51.2	49.9	48.7	47.5
77	59.6	58.2	56.8	55.4	54.1	52.8	51.5	50.2	49.0	47.8
78	59.9	58.5	57.1	55.7	54.4	53.1	51.8	50.5	49.3	48.1
79	60.1	58.7	57.3	56.0	54.7	53.4	52.1	50.8	49.6	48.4
80	60.4	59.0	57.6	56.3	54.9	53.7	52.4	51.1	49.9	48.7
81	60.6	59.2	57.9	56.5	55.2	53.9	52.7	51.4	50.2	49.0
82	60.9	59.5	58.1	56.8	55.5	54.2	52.9	51.7	50.5	49.3
83	61.1	59.7	58.4	57.1	55.8	54.5	53.2	52.0	50.8	49.6
84	61.3	60.0	58.6	57.3	56.0	54.7	53.5	52.3	51.1	49.9
85	61.6	60.2	58.9	57.6	56.3	55.0	53.8	52.5	51.3	50.2
86	61.8	60.4	59.1	57.8	56.5	55.3	54.0	52.8	51.6	50.4
87	62.0	60.7	59.4	58.1	56.8	55.5	54.3	53.1	51.9	50.7
88	62.2	60.9	59.6	58.3	57.0	55.8	54.5	53.3	52.2	51.0
89	62.5	61.1	59.8	58.5	57.3	56.0	54.8	53.6	52.4	51.3
90	62.7	61.4	60.1	58.8	57.5	56.3	55.1	53.9	52.7	51.5
91	62.9	61.6	60.3	59.0	57.8	56.5	55.3	54.1	52.9	51.8
92	63.1	61.8	60.5	59.2	58.0	56.8	55.6	54.4	53.2	52.0
93	63.3	62.0	60.7	59.5	58.2	57.0	55.8	54.6	53.4	52.3
94	63.5	62.2	61.0	59.7	58.5	57.2	56.0	54.9	53.7	52.6
95	63.7	62.4	61.2	59.9	58.7	57.5	56.3	55.1	53.9	52.8
96	63.9	62.7	61.4	60.1	58.9	57.7	56.5	55.3	54.2	53.1
97	64.2	62.9	61.6	60.4	59.1	57.9	56.7	55.6	54.4	53.3
98	64.4	63.1	61.8	60.6	59.4	58.2	57.0	55.8	54.7	53.5
99	64.5	63.3	62.0	60.8	59.6	58.4	57.2	56.0	54.9	53.8
100	64.7	63.5	62.2	61.0	59.8	58.6	57.4	56.3	55.1	54.0

表 6 纯水平面饱和水汽压(kPa)

t＼t－t_w	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
0	0.611	0.615	0.620	0.624	0.629	0.633	0.638	0.642	0.647	0.652
1	0.657	0.661	0.666	0.671	0.676	0.681	0.685	0.690	0.695	0.700
2	0.705	0.710	0.716	0.721	0.726	0.731	0.736	0.741	0.747	0.752
3	0.757	0.763	0.768	0.774	0.779	0.785	0.790	0.796	0.801	0.807
4	0.813	0.819	0.824	0.830	0.836	0.842	0.848	0.854	0.860	0.866
5	0.872	0.878	0.884	0.890	0.896	0.903	0.909	0.915	0.922	0.928
6	0.935	0.941	0.948	0.954	0.961	0.967	0.974	0.981	0.988	0.994
7	1.001	1.008	1.015	1.022	1.029	1.036	1.043	1.050	1.058	1.065
8	1.072	1.079	1.087	1.094	1.102	1.109	1.117	1.124	1.132	1.140
9	1.147	1.155	1.163	1.171	1.179	1.187	1.195	1.203	1.211	1.219
10	1.227	1.235	1.244	1.252	1.260	1.269	1.277	1.286	1.294	1.303
11	1.312	1.321	1.329	1.338	1.347	1.356	1.365	1.374	1.383	1.392
12	1.402	1.411	1.420	1.430	1.439	1.448	1.458	1.468	1.477	1.487
13	1.497	1.507	1.516	1.526	1.536	1.546	1.556	1.567	1.577	1.587
14	1.598	1.608	1.618	1.629	1.639	1.650	1.661	1.672	1.682	1.693
15	1.704	1.715	1.726	1.737	1.749	1.760	1.771	1.783	1.794	1.806
16	1.817	1.829	1.840	1.852	1.864	1.876	1.888	1.900	1.912	1.924
17	1.937	1.949	1.961	1.974	1.986	1.999	2.011	2.024	2.037	2.050
18	2.063	2.076	2.089	2.102	2.115	2.129	2.142	2.155	2.169	2.183
19	2.196	2.210	2.224	2.238	2.252	2.266	2.280	2.294	2.308	2.323
20	2.337	2.352	2.366	2.381	2.396	2.410	2.425	2.440	2.455	2.471
21	2.486	2.501	2.517	2.532	2.548	2.563	2.579	2.595	2.611	2.627
22	2.643	2.659	2.675	2.692	2.708	2.724	2.741	2.758	2.775	2.791
23	2.808	2.825	2.843	2.860	2.877	2.894	2.912	2.930	2.947	2.965
24	2.983	3.001	3.019	3.037	3.055	3.074	3.092	3.111	3.129	3.148
25	3.167	3.186	3.205	3.224	3.243	3.262	3.282	3.301	3.321	3.341
26	3.361	3.381	3.401	3.421	3.441	3.461	3.482	3.502	3.523	3.544
27	3.565	3.586	3.607	3.628	3.649	3.671	3.692	3.714	3.735	3.757
28	3.779	3.801	3.824	3.846	3.868	3.891	3.913	3.936	3.959	3.982
29	4.005	4.028	4.052	4.075	4.099	4.122	4.146	4.170	4.194	4.218
30	4.243	4.267	4.292	4.316	4.341	4.366	4.391	4.416	4.441	4.467
31	4.492	4.518	4.544	4.570	4.596	4.622	4.648	4.675	4.701	4.728
32	4.755	4.782	4.809	4.836	4.863	4.891	4.919	4.946	4.974	5.002
33	5.030	5.059	5.087	5.116	5.144	5.173	5.202	5.231	5.261	5.290
34	5.320	5.349	5.379	5.409	5.439	5.470	5.500	5.531	5.561	5.592
35	5.623	5.654	5.686	5.717	5.749	5.781	5.813	5.845	5.877	5.909
36	5.942	5.975	6.007	6.040	6.074	6.107	6.140	6.174	6.208	6.242
37	6.276	6.310	6.345	6.379	6.414	6.449	6.484	6.519	6.555	6.590

表 6（续）

t－t_w t	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
38	6.626	6.662	6.698	6.734	6.771	6.807	6.844	6.881	6.918	6.956
39	6.993	7.031	7.068	7.106	7.145	7.183	7.221	7.260	7.299	7.338
40	7.377	7.417	7.456	7.496	7.536	7.576	7.617	7.657	7.698	7.739
41	7.780	7.821	7.863	7.904	7.946	7.988	8.030	8.073	8.115	8.158
42	8.201	8.244	8.288	8.331	8.375	8.419	8.463	8.508	8.552	8.597
43	8.642	8.687	8.732	8.778	8.824	8.870	8.916	8.962	9.009	9.056
44	9.103	9.150	9.198	9.245	9.293	9.341	9.390	9.438	9.487	9.536
45	9.585	9.634	9.684	9.734	9.784	9.834	9.885	9.935	9.986	10.038
46	10.089	10.141	10.192	10.244	10.297	10.349	10.402	10.455	10.508	10.562
47	10.615	10.669	10.724	10.778	10.833	10.887	10.943	10.998	11.053	11.109
48	11.165	11.222	11.278	11.335	11.392	11.449	11.507	11.565	11.623	11.681
49	11.740	11.798	11.857	11.917	11.976	12.036	12.096	12.156	12.217	12.278
50	12.339	12.400	12.462	12.524	12.586	12.648	12.711	12.774	12.837	12.901
51	12.964	13.028	13.093	13.157	13.222	13.287	13.353	13.418	13.484	13.550
52	13.617	13.684	13.751	13.818	13.886	13.953	14.022	14.090	14.159	14.228
53	14.297	14.367	14.437	14.507	14.577	14.648	14.719	14.791	14.862	14.934
54	15.006	15.079	15.152	15.225	15.298	15.372	15.446	15.521	15.595	15.670
55	15.746	15.821	15.897	15.973	16.050	16.127	16.204	16.281	16.359	16.437
56	16.515	16.594	16.673	16.753	16.832	16.912	16.993	17.073	17.154	17.236
57	17.317	17.399	17.482	17.564	17.647	17.731	17.814	17.898	17.983	18.067
58	18.152	18.238	18.323	18.409	18.496	18.582	18.670	18.757	18.845	18.933
59	19.021	19.110	19.199	19.289	19.379	19.469	19.559	19.650	19.742	19.833
60	19.925	20.018	20.111	20.204	20.297	20.391	20.485	20.580	20.675	20.770
61	20.866	20.962	21.059	21.155	21.253	21.350	21.448	21.547	21.645	21.744
62	21.844	21.944	22.044	22.145	22.246	22.347	22.449	22.552	22.654	22.757
63	22.861	22.965	23.069	23.173	23.279	23.384	23.490	23.596	23.703	23.810
64	23.917	24.025	24.134	24.242	24.352	24.461	24.571	24.682	24.792	24.904
65	25.015	25.127	25.240	25.353	25.466	25.580	25.694	25.809	25.924	26.040
66	26.156	26.272	26.389	26.506	26.624	26.742	26.861	26.980	27.099	27.219
67	27.340	27.461	27.582	27.704	27.826	27.949	28.072	28.195	28.320	28.444
68	28.569	28.694	28.820	28.947	29.074	29.201	29.329	29.457	29.586	29.715
69	29.845	29.975	30.106	30.237	30.368	30.500	30.633	30.766	30.900	31.034
70	31.168	31.303	31.439	31.575	31.712	31.849	31.986	32.124	32.263	32.402
71	32.541	32.681	32.822	32.963	33.105	33.247	33.389	33.532	33.676	33.820
72	33.965	34.110	34.256	34.402	34.549	34.696	34.844	34.993	35.141	35.291
73	35.441	35.591	35.742	35.894	36.046	36.199	36.352	36.506	36.660	36.815
74	36.971	37.126	37.283	37.440	37.598	37.756	37.915	38.074	38.234	38.394

表 6（续）

$t-t_w$ / t	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
75	38.555	38.717	38.879	39.042	39.205	39.369	39.534	39.699	39.864	40.031
76	40.197	40.365	40.533	40.701	40.870	41.040	41.210	41.381	41.553	41.725
77	41.898	42.071	42.245	42.419	42.595	42.770	42.947	43.124	43.301	43.479
78	43.658	43.838	44.018	44.198	44.379	44.561	44.744	44.927	45.111	45.295
79	45.480	45.666	45.852	46.039	46.227	46.415	46.604	46.794	46.984	47.175
80	47.366	47.558	47.751	47.944	48.139	48.333	48.529	48.725	48.922	49.119
81	49.317	49.516	49.715	49.915	50.116	50.318	50.520	50.722	50.926	51.130
82	51.335	51.541	51.747	51.954	52.161	52.370	52.579	52.788	52.999	53.210
83	53.422	53.634	53.848	54.061	54.276	54.491	54.708	54.924	55.142	55.360
84	55.579	55.799	56.019	56.240	56.462	56.685	56.908	57.132	57.357	57.583
85	57.809	58.036	58.264	58.492	58.722	58.952	59.182	59.414	59.646	59.879
86	60.113	60.348	60.583	60.819	61.056	61.294	61.532	61.771	62.011	62.252
87	62.494	62.736	62.979	63.223	63.468	63.713	63.959	64.207	64.454	64.703
88	64.953	65.203	65.454	65.706	65.958	66.212	66.466	66.721	66.977	67.234
89	67.492	67.750	68.009	68.269	68.530	68.792	69.054	69.318	69.582	69.847
90	70.113	70.380	70.647	70.916	71.185	71.455	71.726	71.998	72.271	72.544
91	72.819	73.094	73.370	73.647	73.925	74.204	74.484	74.764	75.046	75.328
92	75.611	75.895	76.180	76.466	76.753	77.040	77.329	77.618	77.908	78.200
93	78.492	78.785	79.079	79.374	79.669	79.966	80.264	80.562	80.862	81.162
94	81.463	81.766	82.069	82.373	82.678	82.984	83.291	83.599	83.908	84.217
95	84.528	84.840	85.152	85.466	85.780	86.096	86.412	86.730	87.048	87.367
96	87.688	88.009	88.331	88.655	88.979	89.304	89.630	89.958	90.286	90.615
97	90.945	91.276	91.608	91.942	92.276	92.611	92.947	93.284	93.623	93.962
98	94.302	94.643	94.986	95.329	95.673	96.019	96.365	96.713	97.061	97.411
99	97.761	98.113	98.466	98.819	99.174	99.530	99.887	100.245	100.604	100.964
100	101.325	101.687	102.051	102.415	102.780	103.147	103.515	103.883	104.253	104.624

<h1 style="text-align:center">附 录 A</h1>

<p style="text-align:center">（资料性附录）</p>

<h2 style="text-align:center">本标准对 GB/T 6999—1986 的修改说明</h2>

本标准对 GB/T 6999—1986 所作的修改如表 A.1 所示。

<p style="text-align:center">表 A.1 本标准对 GB/T 6999—1986 的修改说明</p>

本标准的章条号	原 GB/T 6999—1986 的对应内容	本标准修改为
2.2	公式当中 "$0.428\,73 \cdot 10^{-3}[10^{4.769\,55(1-T/T_1)} - 1]$"一项	$0.428\,73 \times 10^{-3}[10^{4.769\,55(1-T_1/T)} - 1]$
	公式的参数"$T_1 = 273.15$ K"	$T_1 = 273.16$ K
表 2a$_1$	$t - t_w = 5.2, t = 21; U = 52.5$	$U = 52.4$
表 3b	$t - t_w = 0.3, t = 57; U = 99.5$	$U = 98.5$
	$t - t_w = 0.3, t = 58; U = 99.5$	$U = 98.5$
	$t - t_w = 0.3, t = 59; U = 99.5$	$U = 98.5$
表 6	$t - t_w = 0.1, t = 74; e_w = 37.127$	$e_w = 37.126$
	$t - t_w = 0.1, t = 78; e_w = 43.837$	$e_w = 43.838$
	$t - t_w = 0.2, t = 83; e_w = 53.847$	$e_w = 53.848$
	$t - t_w = 0.5, t = 81; e_w = 50.317$	$e_w = 50.318$
	$t - t_w = 0.5, t = 83; e_w = 54.492$	$e_w = 54.491$
	$t - t_w = 0.6, t = 59; e_w = 19.560$	$e_w = 19.559$
	$t - t_w = 0.7, t = 97; e_w = 93.285$	$e_w = 93.284$
	$t - t_w = 0.8, t = 67; e_w = 28.319$	$e_w = 28.320$
	$t - t_w = 0.8, t = 94; e_w = 83.907$	$e_w = 83.908$
	$t - t_w = 0.8, t = 97; e_w = 93.622$	$e_w = 93.623$
	$t - t_w = 0.9, t = 84; e_w = 57.582$	$e_w = 57.583$