

Also tabulated here to 101S are decimal approximations to  $e^{\pm\pi/2}$ ,  $e^{\pm\pi\sqrt{3}/2}$ ,  $K(\sin 45^\circ)$ , and  $K(\sin 15^\circ)$ .

Comparison of the last two constants with unpublished values by J. W. Wrench, Jr. to 164D and 77D, respectively, has revealed no discrepancies.

#### AUTHOR'S SUMMARY

1. CHIH-BING LING, "Evaluation at half periods of Weierstrass' elliptic functions with double periods 1 and  $e^{i\alpha}$ ," *Math. Comp.*, v. 19, 1965, pp. 658-661.

66[7].—OSCAR L. FLECKNER, *Table of Values of the Fresnel Integrals*, ms. of 8 pp. deposited in the UMT file.

This manuscript table consists of 6D values of the Fresnel Integrals  $(2\pi)^{-1/2} \int_0^x t^{-1/2} \cos t dt$  and  $(2\pi)^{-1/2} \int_0^x t^{-1/2} \sin t dt$ , which are generally designated  $C((2x/\pi)^{1/2})$  and  $S((2x/\pi)^{1/2})$ , in the preferred notation appearing in the FMRC *Index* [1], for example. The author here uses the unfortunate notation  $C(x)$  and  $S(x)$  for these forms of the Fresnel Integrals. The range of argument is  $x = 0(0.2)60$ , which exceeds somewhat that of the 6D table of Pearcey [2], which covers the range  $0(0.01)50$ .

Details of the computation of this table appear in a paper [3] published elsewhere in this journal.

J. W. W.

1. A. FLETCHER, J. C. P. MILLER, L. ROSENHEAD & L. J. COMRIE, *An Index of Mathematical Tables*, Vol. I, 2nd ed., Addison-Wesley Publishing Co., Reading, Mass., 1962, pp. 462-463.

2. T. PEARCEY, *Table of the Fresnel Integral to Six Decimal Places*, Cambridge Univ. Press, Cambridge, 1957. (See *MTAC*, v. 11, 1957, pp. 210-211, RMT 87.)

3. O. L. FLECKNER, "A method for the computation of the Fresnel integrals and related functions," *Math. Comp.*, v. 22, 1968, pp. 635-640.

67[7].—M. LAL, *Exact Values of Factorials 200! to 550!*, Department of Mathematics, Memorial University of Newfoundland, St. John's, Newfoundland, August 1967, ms. of iii + 152 pp., 28 cm., deposited in the UMT file.

68[7].—M. LAL & W. RUSSELL, *Exact Values of Factorials 500! to 1000!*, Department of Mathematics, Memorial University of Newfoundland, St. John's, Newfoundland, undated, ms. of ii + 501 pp., 28 cm., deposited in the UMT file.

The tabular contents of these companion manuscript volumes are clearly indicated by the respective titles. In the first table the factorials are printed *in extenso*; in the second, the terminal zeros are suppressed, but their number is recorded at the end of each entry. Furthermore, in the second table a separate page is allotted to each entry. In each table the digits are printed in five decades per line, with a space between successive arrays of ten lines. Also, the lines for each entry are consecutively numbered in the right margin.

The introduction to the first volume mentions the published table of Uhler [1] containing exact values of factorials to 200!, and also refers to subsequent related calculations [2], [3], [4] by that author. However, earlier, less extensive tabulations by others [5] are not cited.

The first table was computed at Dalhousie University by means of an IBM 1620 and an IBM 1132 printer; the second was computed at the Memorial University of Newfoundland by means of an IBM 1620 and an IBM 407 Mod E8 printer.