Dear Ronald,

Thank you for your letter. I have made a copy of your sheet which I return, with two copies in case you have any use for them.

I do not think there will be any difficulty in doing a 119 term Fourier analyses on EDSAC and then synthesizing the function again leaving out the higher harmonics, though I doubt if it is worth the trouble, since, as you say, it would give a result very similar to that you already have.

I am a bit doubtful about the desirability of this method of smoothing since a sharp cut-off in the spectrum produces oscillations in the function with the cut-off frequency and I think that one should spread out the cut-off in the spectrum sufficiently to avoid these.

Yours sincerely,

[Teddy]

E. C. BULLARD.

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In fact your coefficients shew clearly that the effect of smoothing a S function is an increase that the ratio of max to 1st min for this is 12/3 = 4.7 for a ratio of max to 1st min for the 17 pt one, so it doesn't get worse very rapidly.