the generating function for the zeroth column is

$$(1-2x+2x^2)/(1-3x+x^2),$$

the generating function for the row sums is

$$(1-3x+4x^2-2x^3)/(1-5x+7x^2-2x^3),$$

and the generating function for the rising diagonal sums is

$$(1-3x+4x^2)/(1-4x+3x^2+2x^3-x^4).$$

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In the paper Tribonacci Sequence by April Scott, Tom Delaney and V. E. Hoggatt,Jr. in the October FQJ the following references should be appended.

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3. C. C. Yalavigi, Properties of the Tribonacci Numbers FQJ Oct. 1972 pp231-246
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The term TRIBONACCI number was coined by Mark Feinberg in [1]above.