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SUM of PRODUCTS

Map

	$\overline{C}.\overline{D}$	$\overline{C}.D$	C.D	C.$\overline{D}$
$\overline{A}.\overline{B}$	x	0	1	x
$\overline{A}.B$	x	x	x	x
A.B	x	x	x	x
A.$\overline{B}$	x	1	0	x

Map Layout

	$\overline{C}.\overline{D}$	$\overline{C}.D$	C.D	C.$\overline{D}$
$\overline{A}.\overline{B}$	0	1	3	2
$\overline{A}.B$	4	5	7	6
A.B	12	13	15	14
A.$\overline{B}$	8	9	11	10

Groups

(2,3,6,7)	$\overline{A}.C$
(8,9,12,13)	A.$\overline{C}$

y = A'C + AC'

A $\overline{A}$ B $\overline{B}$ C $\overline{C}$ D $\overline{D}$

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A $\overline{A}$ B $\overline{B}$ C $\overline{C}$ D $\overline{D}$

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Truth Table

	A	B	C	D	Y
0	0	0	0	0	x
1	0	0	0	1	0
2	0	0	1	0	x
3	0	0	1	1	1
4	0	1	0	0	x
5	0	1	0	1	x
6	0	1	1	0	x
7	0	1	1	1	x
8	1	0	0	0	x
9	1	0	0	1	1
10	1	0	1	0	x
11	1	0	1	1	0
12	1	1	0	0	x
13	1	1	0	1	x
14	1	1	1	0	x
15	1	1	1	1	x

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