SUM of PRODUCTS

Map

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

Map Layout

	$\overline{\text{C.D}}$	$\overline{\mathrm{C}}.\mathrm{D}$	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

(0,2,8,10)	B.D
(1,5,9,13)	C.D
(8,9,12,13)	A.C
(9,11,13,15)	A.D

$$y = B'D' + C'D + AC' + AD$$

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

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

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Truth Table

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

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