SUM of PRODUCTS

Map

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

Map Layout

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

Groups

(0,1)	$\overline{A}.\overline{B}.\overline{C}$
(1,3)	$\overline{A}.\overline{B}.D$
(5,13)	B.C.D
(6,14)	$B.C.\overline{D}$
(10,11)	A.B.C

y = A'B'C' + A'B'D + BC'D + BCD' + AB'C

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

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\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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 \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	0
3	0	0	1	1	1
4	0	1	0	0	0
5	0	1	0	1	1
6	0	1	1	0	1
7	0	1	1	1	0
8	1	0	0	0	0
9	1	0	0	1	0
10	1	0	1	0	1
11	1	0	1	1	1
12	1	1	0	0	0

13	1	1	0	1	1
14	1	1	1	0	1
15	1	1	1	1	0

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