

SUM of PRODUCTS

Map

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

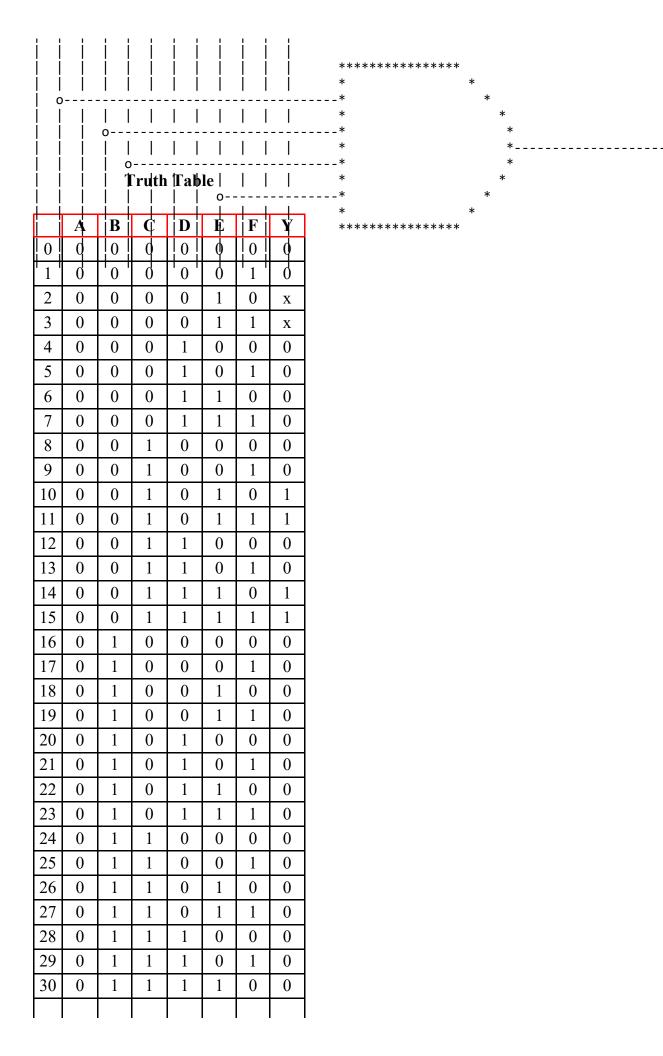
Map Layout

	$\overline{\mathrm{D}}.\overline{\mathrm{E}}.\overline{\mathrm{F}}$	$\overline{\mathrm{D}}.\overline{\mathrm{E}}.\mathrm{F}$	D.E.F	$\overline{\mathrm{D}}.\mathrm{E}.\overline{\mathrm{F}}$	$D.\overline{E}.\overline{F}$	$D.\overline{E}.F$	D.E.F	$D.E.\overline{F}$
$\overline{A}.\overline{B}.\overline{C}$	0	1	3	2	4	5	7	6
$\overline{A}.\overline{B}.C$	8	9	11	10	12	13	15	14
\overline{A} .B.C	24	25	27	26	28	29	31	30
$\overline{A}.B.\overline{C}$	16	17	19	18	20	21	23	22
A.B.C	32	33	35	34	36	37	39	38
$A.\overline{B}.C$	40	41	43	42	44	45	47	46
A.B.C	56	57	59	58	60	61	63	62
$A.B.\overline{C}$	48	49	51	50	52	53	55	54

Groups

$$(10,11,14,15)$$
 $\overline{A}.\overline{B}.C.E$

$$y = \overline{A}.\overline{B}.C.E$$



31 0 1 1 1 1 1 0								
33 1 0 0 0 0 1 0 34 1 0 0 0 1 0 0 35 1 0 0 0 1 1 0 36 1 0 0 1 0 0 0 37 1 0 0 1 0 1 0 38 1 0 0 1 1 0 0 39 1 0 0 1 1 0 0 40 1 0 1 0 0 0 0 41 1 0 1 0 0 0 0 42 1 0 1 0 0 0 0 43 1 0 1 0 1 0 0 43 1 0 1 1 0 0 <	31	0	1	1	1	1	1	0
34 1 0 0 0 1 0 0 35 1 0 0 0 1 1 0 36 1 0 0 1 0 0 0 37 1 0 0 1 0 1 0 38 1 0 0 1 1 0 0 39 1 0 0 1 1 1 0 40 1 0 1 0 0 0 0 41 1 0 1 0 0 0 0 42 1 0 1 0 0 0 0 43 1 0 1 0 0 0 0 45 1 0 1 1 0 0 0 47 1 0 1 1 0 0 <	32	1	0	0	0	0	0	X
35 1 0 0 0 1 1 0 36 1 0 0 1 0 0 0 37 1 0 0 1 0 1 0 38 1 0 0 1 1 0 0 39 1 0 0 1 1 1 0 40 1 0 1 0 0 0 0 41 1 0 1 0 0 0 0 42 1 0 1 0 1 0 0 43 1 0 1 0 0 0 0 44 1 0 1 1 0 0 0 45 1 0 1 1 0 0 0 47 1 0 1 1 1 0 <	33	1	0	0	0	0	1	0
36 1 0 0 1 0 0 37 1 0 0 1 0 1 0 38 1 0 0 1 1 0 0 39 1 0 0 1 1 1 0 40 1 0 1 0 0 0 0 41 1 0 1 0 0 0 0 41 1 0 1 0 0 1 0 42 1 0 1 0 1 0 0 43 1 0 1 0 1 1 0 44 1 0 1 1 0 0 0 45 1 0 1 1 1 0 0 47 1 0 1 1 1 0 0	34	1	0	0	0	1	0	0
37 1 0 0 1 0 1 0 38 1 0 0 1 1 0 0 39 1 0 0 1 1 1 0 40 1 0 1 0 0 0 0 41 1 0 1 0 0 1 0 42 1 0 1 0 1 0 0 43 1 0 1 0 1 1 0 44 1 0 1 1 0 0 0 45 1 0 1 1 0 1 0 46 1 0 1 1 1 0 0 47 1 0 1 1 1 0 0 49 1 1 0 0 0 0 <	35	1	0	0	0	1	1	0
38 1 0 0 1 1 0 0 39 1 0 0 1 1 1 0 40 1 0 1 0 0 0 0 41 1 0 1 0 0 1 0 41 1 0 1 0 0 1 0 42 1 0 1 0 1 0 0 43 1 0 1 0 1 1 0 44 1 0 1 1 0 0 0 45 1 0 1 1 0 0 0 45 1 0 1 1 0 0 0 47 1 0 1 1 1 0 0 48 1 1 0 0 1 0 <	36	1	0	0	1	0	0	0
39 1 0 0 1 1 1 0 40 1 0 1 0 0 0 0 41 1 0 1 0 0 0 0 42 1 0 1 0 1 0 0 43 1 0 1 0 1 1 0 44 1 0 1 1 0 0 0 45 1 0 1 1 0 0 0 45 1 0 1 1 0 0 0 45 1 0 1 1 0 0 0 46 1 0 1 1 1 0 0 47 1 0 1 1 1 0 0 50 1 1 0 0 1 0 <	37	1	0	0	1	0	1	0
40 1 0 1 0 0 0 41 1 0 1 0 0 1 0 42 1 0 1 0 1 0 0 43 1 0 1 0 1 1 0 44 1 0 1 1 0 0 0 45 1 0 1 1 0 1 0 46 1 0 1 1 1 0 0 47 1 0 1 1 1 0 0 48 1 1 0 0 0 0 0 50 1 1 0 0 1 0 0 51 1 1 0 0 1 0 0 52 1 1 0 1 0 0 0	38	1	0	0	1	1	0	0
41 1 0 1 0 0 1 0 42 1 0 1 0 1 0 0 43 1 0 1 0 1 1 0 44 1 0 1 1 0 0 0 45 1 0 1 1 0 1 0 46 1 0 1 1 1 0 0 47 1 0 1 1 1 0 0 48 1 1 0 0 0 0 0 49 1 1 0 0 0 0 0 50 1 1 0 0 1 0 0 51 1 1 0 0 1 0 0 52 1 1 0 1 1 0 <	39	1	0	0	1	1	1	0
42 1 0 1 0 1 0 0 43 1 0 1 0 1 1 0 44 1 0 1 1 0 0 0 45 1 0 1 1 0 1 0 46 1 0 1 1 1 0 0 47 1 0 1 1 1 1 0 48 1 1 0 0 0 0 0 49 1 1 0 0 0 0 0 50 1 1 0 0 1 0 0 51 1 1 0 0 1 0 0 51 1 1 0 1 0 0 0 52 1 1 0 1 1 0 <	40	1	0	1	0	0	0	0
43 1 0 1 0 1 1 0 44 1 0 1 1 0 0 0 45 1 0 1 1 0 1 0 46 1 0 1 1 1 0 0 47 1 0 1 1 1 1 0 48 1 1 0 0 0 0 0 49 1 1 0 0 0 0 0 50 1 1 0 0 1 0 0 51 1 1 0 0 1 0 0 51 1 1 0 0 1 0 0 52 1 1 0 1 0 0 0 53 1 1 0 1 1 0 0 54 1 1 0 1 1 0 0 0	41	1	0	1	0	0	1	0
44 1 0 1 1 0 0 0 45 1 0 1 1 0 1 0 46 1 0 1 1 1 0 0 47 1 0 1 1 1 1 0 0 48 1 1 0 0 0 0 0 0 49 1 1 0 0 0 0 0 0 50 1 1 0 0 1 0 0 0 51 1 1 0 0 1 0 0 0 0 51 1 1 0 1 0	42	1	0	1	0	1	0	0
45 1 0 1 1 0 1 0 46 1 0 1 1 1 0 0 47 1 0 1 1 1 1 0 0 48 1 1 0 0 0 0 0 0 49 1 1 0 0 0 1 0 0 50 1 1 0 0 1 0	43	1	0	1	0	1	1	0
46 1 0 1 1 1 0 0 47 1 0 1 1 1 1 0 48 1 1 0 0 0 0 0 49 1 1 0 0 0 1 0 50 1 1 0 0 1 0 0 51 1 1 0 0 1 1 0 52 1 1 0 1 0 0 0 53 1 1 0 1 0 0 0 54 1 1 0 1 1 0 0 55 1 1 0 1 1 0 0 57 1 1 1 0 0 0 0 58 1 1 1 0 1 0 0 59 1 1 1 1 0 0 0 <t< td=""><td>44</td><td>1</td><td>0</td><td>1</td><td>1</td><td>0</td><td>0</td><td>0</td></t<>	44	1	0	1	1	0	0	0
47 1 0 1 1 1 1 0 48 1 1 0 0 0 0 0 49 1 1 0 0 0 1 0 50 1 1 0 0 1 0 0 51 1 1 0 0 1 1 0 51 1 1 0 0 1 1 0 52 1 1 0 1 0 0 0 53 1 1 0 1 0 0 0 54 1 1 0 1 1 0 0 55 1 1 0 1 1 0 0 57 1 1 1 0 0 0 0 58 1 1 1 0 1 0 0 59 1 1 1 1 0 0 0 <t< td=""><td>45</td><td>1</td><td>0</td><td>1</td><td>1</td><td>0</td><td>1</td><td>0</td></t<>	45	1	0	1	1	0	1	0
48 1 1 0 0 0 0 0 49 1 1 0 0 0 1 0 50 1 1 0 0 1 0 0 51 1 1 0 0 1 1 0 51 1 1 0 1 0 0 0 52 1 1 0 1 0 0 0 53 1 1 0 1 0 1 0 54 1 1 0 1 1 0 0 55 1 1 0 1 1 1 0 56 1 1 1 0 0 0 0 57 1 1 1 0 1 0 0 59 1 1 1 1 0 0 <	46	1	0	1	1	1	0	0
49 1 1 0 0 0 1 0 50 1 1 0 0 1 0 0 51 1 1 0 0 1 1 0 52 1 1 0 1 0 0 0 53 1 1 0 1 0 1 0 54 1 1 0 1 1 0 0 55 1 1 0 1 1 1 0 56 1 1 1 0 0 0 0 57 1 1 1 0 0 1 0 58 1 1 1 0 1 0 0 59 1 1 1 0 0 0 60 1 1 1 1 0 0 61 1 1 1 1 0 0 62 1 1 </td <td>47</td> <td>1</td> <td>0</td> <td>1</td> <td>1</td> <td>1</td> <td>1</td> <td>0</td>	47	1	0	1	1	1	1	0
50 1 1 0 0 1 0 0 51 1 1 0 0 1 1 0 52 1 1 0 1 0 0 0 53 1 1 0 1 0 1 0 54 1 1 0 1 1 0 0 55 1 1 0 1 1 1 0 56 1 1 1 0 0 0 0 57 1 1 1 0 0 1 0 58 1 1 1 0 1 0 0 59 1 1 1 0 0 0 60 1 1 1 1 0 0 61 1 1 1 1 0 0 62	48	1	1	0	0	0	0	0
51 1 1 0 0 1 1 0 52 1 1 0 1 0 0 0 53 1 1 0 1 0 1 0 54 1 1 0 1 1 0 0 55 1 1 0 1 1 1 0 56 1 1 1 0 0 0 0 57 1 1 1 0 0 1 0 58 1 1 1 0 1 0 0 59 1 1 1 0 1 1 0 60 1 1 1 1 0 0 0 61 1 1 1 1 0 0 0 62 1 1 1 1 1 0 <	49	1	1	0	0	0	1	0
52 1 1 0 1 0 0 0 53 1 1 0 1 0 1 0 54 1 1 0 1 1 0 0 55 1 1 0 1 1 1 0 56 1 1 1 0 0 0 0 57 1 1 1 0 0 1 0 58 1 1 1 0 1 0 0 59 1 1 1 0 1 1 0 60 1 1 1 1 0 0 0 61 1 1 1 1 0 0 0 62 1 1 1 1 1 0 0	50	1	1	0	0	1	0	0
53 1 1 0 1 0 1 0 54 1 1 0 1 1 0 0 55 1 1 0 1 1 1 0 56 1 1 1 0 0 0 0 57 1 1 1 0 0 1 0 58 1 1 1 0 1 0 0 59 1 1 1 0 1 1 0 60 1 1 1 1 0 0 0 61 1 1 1 1 0 1 0 62 1 1 1 1 1 0 0	51	1	1	0	0	1	1	0
54 1 1 0 1 1 0 0 55 1 1 0 1 1 1 0 56 1 1 1 0 0 0 0 57 1 1 1 0 0 1 0 58 1 1 1 0 1 0 0 59 1 1 1 0 1 1 0 60 1 1 1 1 0 0 0 61 1 1 1 1 0 1 0 62 1 1 1 1 1 0 0	52	1	1	0	1	0	0	0
55 1 1 0 1 1 1 0 56 1 1 1 0 0 0 0 57 1 1 1 0 0 1 0 58 1 1 1 0 1 0 0 59 1 1 1 0 1 1 0 60 1 1 1 1 0 0 0 61 1 1 1 1 0 0 62 1 1 1 1 1 0 0	53	1	1	0	1	0	1	0
56 1 1 1 0 0 0 0 57 1 1 1 0 0 1 0 58 1 1 1 0 1 0 0 59 1 1 1 0 1 1 0 60 1 1 1 1 0 0 0 61 1 1 1 1 0 0 0 62 1 1 1 1 1 0 0	54	1	1	0	1	1	0	0
57 1 1 1 0 0 1 0 58 1 1 1 0 1 0 0 59 1 1 1 0 1 1 0 60 1 1 1 1 0 0 0 61 1 1 1 1 0 1 0 62 1 1 1 1 1 0 0	55	1	1	0	1	1	1	0
58 1 1 1 0 1 0 0 59 1 1 1 0 1 1 0 60 1 1 1 1 0 0 0 61 1 1 1 1 0 1 0 62 1 1 1 1 1 0 0	56	1	1	1	0	0	0	0
59 1 1 1 0 1 1 0 60 1 1 1 1 0 0 0 61 1 1 1 1 0 1 0 62 1 1 1 1 1 0 0	57	1	1	1	0	0	1	0
60 1 1 1 1 0 0 0 61 1 1 1 1 0 1 0 62 1 1 1 1 1 0 0	58	1	1	1	0	1	0	0
61 1 1 1 1 0 1 0 62 1 1 1 1 1 0 0	59	1	1	1	0	1	1	0
62 1 1 1 1 1 0 0	60	1	1	1	1	0	0	0
	61	1	1	1	1	0	1	0
63 1 1 1 1 1 1 0	62	1	1	1	1	1	0	0
	63	1	1	1	1	1	1	0