JQ3

	$\bar{C}$		C		
$\bar{A}$	0	0	0	0	$\bar{B}$
	1	0	0	0	B
	X	X	X	X	B
A	X	X	X	X	$\bar{B}$
	$\bar{D}$	D	$\bar{D}$		

$\rightarrow B \cdot \bar{C} \cdot \bar{D}$

KQ3

	$\bar{C}$		C		
$\bar{A}$	X	X	X	X	$\bar{B}$
	X	X	X	X	B
A	0	0	0	0	B
	1	0	0	0	$\bar{B}$
	$\bar{D}$	D	$\bar{D}$		

$\rightarrow \bar{B} \cdot \bar{C} \cdot \bar{D}$

JQ2

	$\bar{C}$		C		
$\bar{A}$	0	0	0	1	$\bar{B}$
	X	X	X	X	B
A	X	X	X	X	B
	0	0	0	0	$\bar{B}$
	$\bar{D}$	D	$\bar{D}$		

$\rightarrow \bar{A} \cdot C \cdot \bar{D}$

KQ2

	$\bar{C}$		C		
$\bar{A}$	X	X	X	X	$\bar{B}$
	0	0	0	0	B
	0	0	0	1	B
A	X	X	X	X	$\bar{B}$
	$\bar{D}$	D	D		

$\rightarrow A \cdot C \cdot \bar{D}$

JQ1

	$\bar{C}$		C		
$\bar{A}$	0	1	X	X	B
A	0	0	X	X	B
	0	1	X	X	B
A	0	0	X	X	B
	$\bar{D}$	D	$\bar{D}$		

$\rightarrow \bar{A} \cdot \bar{B} \cdot D + A \cdot B \cdot D$

KQ1

	C̄	C̄	C	C	
Ā	X	X	0	0	B̄
Ā	X	X	1	0	B
A	X	X	0	0	B
A	X	X	1	0	B̄
	D̄	D		D	

→ $\bar{A}.B.D + A.\bar{B}.D$

JQ0

	C̄	C̄	C	C	
Ā	1	X	X	0	B̄
Ā	0	X	X	1	B
A	1	X	X	0	B
A	0	X	X	1	B̄
	D̄	D		D	

→ $\bar{A}.\bar{B}.\bar{C} + \bar{A}.B.C + A.B.\bar{C} + A.\bar{B}.C$

KQ0

	C̄	C̄	C	C	
Ā	X	0	1	X	B̄
Ā	X	1	0	X	B
A	X	0	1	X	B
A	X	1	0	X	B̄
	D̄	D		D̄	

→ $\bar{A}.\bar{B}.C + \bar{A}.B.\bar{C} + A.B.C + A.\bar{B}.\bar{C}$

Tabela utilizada:

Estado atual				Próximo estado				entradas flip flop							
Q3	Q2	Q1	Q0	Q3	Q2	Q1	Q0	JQ3	KQ3	JQ2	KQ2	JQ1	KQ1	JQ0	KQ0
0	0	0	0	0	0	0	1	0	X	0	X	0	X	1	X
0	0	0	1	0	0	1	1	0	X	0	X	1	X	X	0
0	0	1	0	0	1	1	0	0	X	1	X	X	0	0	X
0	0	1	1	0	0	1	0	0	X	0	X	X	0	X	1
0	1	0	0	1	1	0	0	1	X	X	0	0	X	0	X
0	1	0	1	0	1	0	0	0	X	X	0	0	X	X	1
0	1	1	0	0	1	1	1	0	X	X	0	X	0	1	X
0	1	1	1	0	1	0	1	0	X	X	0	X	1	X	0
1	0	0	0	0	0	0	0	X	1	0	X	0	X	0	X
1	0	0	1	1	0	0	0	X	0	0	X	0	X	X	1
1	0	1	0	1	0	1	1	X	0	0	X	X	0	1	X
1	0	1	1	1	0	0	1	X	0	0	X	X	1	X	0
1	1	0	0	1	1	0	1	X	0	X	0	0	X	1	X
1	1	0	1	1	1	1	1	X	0	X	0	1	X	X	0
1	1	1	0	1	0	1	0	X	0	X	1	X	0	0	X
1	1	1	1	1	1	1	0	X	0	X	0	X	0	X	1