

$\sqrt{5}\sqrt{2}$	1	0	0	0	0	0	0	1	$\sqrt{2}\sqrt{5}$		
$\sqrt{2}$	1	0	0	1	1	1	0	0	1	$\sqrt{2}$	
1	0	0	1	$\sqrt{2}$	2	$\sqrt{2}$	1	1	0	0	1
0	0	1	$\sqrt{2}$	$\sqrt{5}$	$\sqrt{8}$	$\sqrt{5}$	2	1	0	0	0
0	0	1	2	$\sqrt{8}$	$\sqrt{13}$	$\sqrt{10}$	$\sqrt{5}\sqrt{2}$	1	0	0	
0	0	1	2	$\sqrt{8}$	$\sqrt{13}$	$\sqrt{13}$	$\sqrt{8}$	2	1	0	0
0	0	1	$\sqrt{2}$	$\sqrt{5}$	$\sqrt{10}$	$\sqrt{16}$	3	2	1	0	0
0	0	0	1	2	$\sqrt{8}$	$\sqrt{13}$	$\sqrt{8}$	2	1	0	0
0	0	0	1	$\sqrt{2}$	$\sqrt{5}$	$\sqrt{8}$	$\sqrt{5}\sqrt{2}$	1	0	0	
1	0	0	0	1	$\sqrt{2}$	2	$\sqrt{2}$	1	0	0	1
$\sqrt{2}$	1	0	0	0	1	1	1	0	0	1	$\sqrt{2}$
$\sqrt{5}\sqrt{2}$	1	0	0	0	0	0	0	0	1	$\sqrt{2}\sqrt{5}$	

$\sqrt{5}\sqrt{2}$	1	0	0	0	0	0	0	0	0	1	$\sqrt{2}$
$\sqrt{2}$	1	0	0	0	1	1	0	0	0	0	1
1	0	0	1	1	$\sqrt{2}$	$\sqrt{2}$	1	0	0	0	1
1	0	0	1	1	1	1	1	0	0	0	1
1	0	0	0	0	0	0	0	0	0	0	0
1	0	0	1	1	1	1	1	1	1	1	1
0	0	0	1	2	2	2	2	2	2	2	2
1	0	0	1	$\sqrt{2}$	$\sqrt{5}$	$\sqrt{8}$	$\sqrt{8}$	$\sqrt{5}\sqrt{2}$	1	1	
1	0	0	0	1	$\sqrt{2}$	2	2	$\sqrt{2}$	1	0	0
1	0	0	0	0	1	1	1	1	0	0	1
$\sqrt{2}$	1	0	0	0	0	0	0	0	0	1	$\sqrt{2}$
$\sqrt{5}\sqrt{2}$	1	0	0	0	0	0	0	0	1	$\sqrt{2}\sqrt{5}$	

Distance =  $\sqrt{13}$

$\sqrt{13}\sqrt{8}\sqrt{5}\sqrt{2}$	1	1	0	0	0	0	1	$\sqrt{2}$			
$\sqrt{8}\sqrt{5}\sqrt{2}$	1	0	0	0	1	1	0	0	1		
$\sqrt{5}\sqrt{2}$	1	0	0	1	1	$\sqrt{2}$	1	0	0	1	
$\sqrt{2}$	1	0	0	1	$\sqrt{2}$	$\sqrt{2}$	1	0	0	0	1
1	0	0	0	1	1	1	0	0	0	1	$\sqrt{2}$
1	0	0	1	1	0	0	0	1	1	$\sqrt{2}\sqrt{5}$	
0	0	0	0	0	0	1	1	$\sqrt{2}$	2	$\sqrt{5}\sqrt{8}$	
0	0	1	1	1	1	$\sqrt{2}$	2	2	$\sqrt{5}\sqrt{8}$	$\sqrt{13}$	
0	0	1	2	2	2	2	$\sqrt{2}$	1	$\sqrt{2}\sqrt{5}$	$\sqrt{10}$	
0	0	1	$\sqrt{2}$	2	$\sqrt{2}$	1	1	0	1	2	3
0	0	0	1	0	1	0	0	0	1	2	3
1	0	0	0	0	0	1	1	1	$\sqrt{2}\sqrt{5}$	$\sqrt{10}$	

$\sqrt{5}\sqrt{2}$	1	0	0	0	0	0	0	0	0	1	$\sqrt{2}$
$\sqrt{2}$	1	0	0	0	1	1	0	0	0	0	1
1	0	0	1	1	$\sqrt{2}$	$\sqrt{2}$	1	0	0	0	1
1	0	0	1	1	1	1	1	0	0	0	1
1	0	0	0	0	0	0	0	0	0	0	0
1	0	0	1	1	1	1	1	1	1	1	1
0	0	0	1	2	2	2	2	2	2	2	2
1	0	0	1	$\sqrt{2}$	$\sqrt{5}$	$\sqrt{8}$	$\sqrt{8}$	$\sqrt{5}\sqrt{2}$	1	1	
1	0	0	0	1	$\sqrt{2}$	2	2	$\sqrt{2}$	1	0	0
1	0	0	0	0	1	1	1	1	0	0	1
$\sqrt{2}$	1	0	0	0	0	0	0	0	0	1	$\sqrt{2}$
$\sqrt{5}\sqrt{2}$	1	0	0	0	0	0	0	0	1	$\sqrt{2}\sqrt{5}$	

Distance =  $\sqrt{10}$