MSG No. 75.5 P_C4 [Type IV, tetragonal]

Table 1: Wyckoff site: 2a, site symmetry: 4..

No.	position	mapping
1	$[0,\, 0,\, z]$	[1,2,3,4]
2	$\left[\frac{1}{2},\, \frac{1}{2},\, z\right]$	[5,6,7,8]

Table 2: Wyckoff site: 2b, site symmetry: 4'..

No.	position	mapping
1	$\left[0,\, \frac{1}{2},\, z\right]$	[1,4,6,7]
2	$\left[\frac{1}{2},\, 0,\, z\right]$	[2,3,5,8]

Table 3: Wyckoff site: 4c, site symmetry: 2'..

No.	position	mapping
1	$\left[\frac{3}{4},\, \frac{1}{4},\, z\right]$	[1,8]
2	$\left[\frac{3}{4},\, \frac{3}{4},\, z\right]$	[2,7]
3	$\left[\frac{1}{4},\, \frac{1}{4},\, z\right]$	[3,6]
4	$\left[\frac{1}{4},\, \frac{3}{4},\, z\right]$	[4,5]

Table 4: Wyckoff site: 8d, site symmetry: 1

No.	position	mapping
1	$[x,\, y,\, z]$	[1]
2	$[-y,\, x,\, z]$	[2]
3	$[y,\, -x,\, z]$	[3]
4	$[-x,\, -y,\, z]$	[4]
5	$\left[x+\frac{1}{2},\, y+\frac{1}{2},\, z\right]$	[5]
6	$\left[\frac{1}{2}-y,\, x+\frac{1}{2},\, z\right]$	[6]
7	$\left[y+\frac{1}{2},\, \frac{1}{2}-x,\, z\right]$	[7]
8	$\left[\frac{1}{2}-x,\, \frac{1}{2}-y,\, z\right]$	[8]