

MSG No. 80.30 $I4_11'$ [Type II, tetragonal]

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

No.	position	mapping
1	$[0, 0, z]$	$[1, 4, 9, 12]$
2	$[0, \frac{1}{2}, z + \frac{1}{4}]$	$[2, 3, 10, 11]$
3	$[\frac{1}{2}, \frac{1}{2}, z + \frac{1}{2}]$	$[5, 8, 13, 16]$
4	$[\frac{1}{2}, 0, z + \frac{3}{4}]$	$[6, 7, 14, 15]$

Table 2: Wyckoff site: 8b, site symmetry: $11'$

No.	position	mapping
1	$[x, y, z]$	$[1, 9]$
2	$[-y, x + \frac{1}{2}, z + \frac{1}{4}]$	$[2, 10]$
3	$[y, \frac{1}{2} - x, z + \frac{1}{4}]$	$[3, 11]$
4	$[-x, -y, z]$	$[4, 12]$
5	$[x + \frac{1}{2}, y + \frac{1}{2}, z + \frac{1}{2}]$	$[5, 13]$
6	$[\frac{1}{2} - y, x, z + \frac{3}{4}]$	$[6, 14]$
7	$[y + \frac{1}{2}, -x, z + \frac{3}{4}]$	$[7, 15]$
8	$[\frac{1}{2} - x, \frac{1}{2} - y, z + \frac{1}{2}]$	$[8, 16]$