MPG No. 8.4.27 $m'm'm$ (m'm'm setting) [Type III, orthorhombic]

Table 1: Wyckoff site: `1o`, site symmetry: `m'm'm`

No.	position	mapping
1	[0, 0, 0]	`[1,2,3,4,5,6,7,8]`

Table 2: Wyckoff site: `2a`, site symmetry: `2'm'm`

No.	position	mapping
1	[x, 0, 0]	`[1,4,5,8]`
2	[$-x$, 0, 0]	`[2,3,6,7]`

Table 3: Wyckoff site: `2b`, site symmetry: `m'2'm`

No.	position	mapping
1	[0, y, 0]	`[1,4,6,7]`
2	[0, $-y$, 0]	`[2,3,5,8]`

Table 4: Wyckoff site: `2c`, site symmetry: `m'm'2`

No.	position	mapping
1	[0, 0, z]	`[1,2,7,8]`
2	[0, 0, $-z$]	`[3,4,5,6]`

Table 5: Wyckoff site: `4d`, site symmetry: `m'..`

No.	position	mapping
1	[0, y, z]	`[1,7]`
2	[0, $-y$, z]	`[2,8]`
3	[0, y, $-z$]	`[4,6]`
4	[0, $-y$, $-z$]	`[3,5]`

Table 6: Wyckoff site: `4e`, site symmetry: `.m'.`

No.	position	mapping
1	[x, 0, z]	`[1,8]`

continued ...

Table 6

No.	position	mapping
2	$[-x,\ 0,\ z]$	`[2,7]`
3	$[-x,\ 0,\ -z]$	`[3,6]`
4	$[x,\ 0,\ -z]$	`[4,5]`

Table 7: Wyckoff site: `4f`, site symmetry: `..m`

No.	position	mapping
1	$[x,\ y,\ 0]$	`[1,4]`
2	$[-x,\ -y,\ 0]$	`[2,3]`
3	$[-x,\ y,\ 0]$	`[6,7]`
4	$[x,\ -y,\ 0]$	`[5,8]`

Table 8: Wyckoff site: `8g`, site symmetry: `1`

No.	position	mapping
1	$[x,\ y,\ z]$	`[1]`
2	$[-x,\ -y,\ z]$	`[2]`
3	$[-x,\ y,\ -z]$	`[6]`
4	$[x,\ -y,\ -z]$	`[5]`
5	$[-x,\ -y,\ -z]$	`[3]`
6	$[x,\ y,\ -z]$	`[4]`
7	$[x,\ -y,\ z]$	`[8]`
8	$[-x,\ y,\ z]$	`[7]`