MPG No. 36.4.147 $\bar{3}'m'$ (-3'1m' setting) [Type III, trigonal]

Table 1: Wyckoff site: `1o`, site symmetry: `-3'1m'`

No.	position	mapping
1	[0, 0, 0]	`[1,2,3,4,5,6,7,8,9,10,11,12]`

Table 2: Wyckoff site: `2a`, site symmetry: `3.m'`

No.	position	mapping
1	$[0, 0, z]$	`[1,2,3,10,11,12]`
2	$[0, 0, -z]$	`[4,5,6,7,8,9]`

Table 3: Wyckoff site: `6b`, site symmetry: `..2`

No.	position	mapping
1	$[x, -x, 0]$	`[1,4]`
2	$[x, 2x, 0]$	`[2,6]`
3	$[-2x, -x, 0]$	`[3,5]`
4	$[-x, x, 0]$	`[7,10]`
5	$[-x, -2x, 0]$	`[8,12]`
6	$[2x, x, 0]$	`[9,11]`

Table 4: Wyckoff site: `6c`, site symmetry: `..m`

No.	position	mapping
1	$[x, 0, z]$	`[1,11]`
2	$[0, x, z]$	`[2,10]`
3	$[-x, -x, z]$	`[3,12]`
4	$[0, -x, -z]$	`[4,8]`
5	$[-x, 0, -z]$	`[5,7]`
6	$[x, x, -z]$	`[6,9]`

Table 5: Wyckoff site: `12d`, site symmetry: `1`

No.	position	mapping
1	$[x, y, z]$	`[1]`
2	$[-y, x-y, z]$	`[2]`
3	$[-x+y, -x, z]$	`[3]`

continued ...

Table 5

No.	position	mapping
4	$[-y, -x, -z]$	[4]
5	$[-x+y, y, -z]$	[5]
6	$[x, x-y, -z]$	[6]
7	$[-x, -y, -z]$	[7]
8	$[y, -x+y, -z]$	[8]
9	$[x-y, x, -z]$	[9]
10	$[y, x, z]$	[10]
11	$[x-y, -y, z]$	[11]
12	$[-x, -x+y, z]$	[12]