Propagation
Initial crack
Y
30°
X

Propagation
Initial
crack
Y
40°
X

Initial crack
Y
50°
Propagation
X

Propagation
Initial crack
Y
60°
X

Propagation
Y
Initial
crack
70°
X

Propagation
Y
120°
Initial crack
X

Propagation
Y
140°
Initial crack
X

Propagation
Y
150°
Initial crack
X