The point types are:

2	2	2	2	2	2	2	2	2	1	1	1	0	0	0	0	0	0	0
4	3	3	3	3	3	3	3	3	3	3	3	1	1	0	0	0	0	0
4	3	3	3	3	3	3	3	3	3	3	3	3	3	1	1	0	0	0
4	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	1	0	0
4	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	1	0	0
4	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	1	0
4	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	1	0
4	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	1
4	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	7
6	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	8

The boundary condition on the curved edge is

$$\nabla T(x,y,t) \cdot n = -1 \quad \rightarrow \quad \frac{\partial T(x,y,t)}{\partial x} n_x + \frac{\partial T(x,y,t)}{\partial y} n_y = -1 \quad \rightarrow \quad \frac{\partial T_{j,k,i}}{\partial x} n_x + \frac{\partial T_{j,k,i}}{\partial y} n_y = -1$$

At points of type 1 using one sided differences this is:

$$\begin{split} &\frac{n_x}{2h}\left(T_{j,k-2,i}-4T_{j,k-1,i}+3T_{j,k,i}\right)+\frac{n_y}{2h}\left(-3T_{j,k,i}+4T_{j+1,k,i}-T_{j+2,k,i}\right)=-1\\ &\frac{3n_x}{2h}T_{j,k,i}-\frac{3n_y}{2h}T_{j,k,i}=-1+\frac{n_x}{2h}(4T_{j,k-1,i}-T_{j,k-2,i})+\frac{n_y}{2h}(T_{j+2,k,i}-4_{j+1,k,i})\\ &T_{j,k,i}=\left(\frac{3n_x-3n_y}{2h}\right)^{-1}\left(-1+\frac{n_x}{2h}(4T_{j,k-1,i}-T_{j,k-2,i})+\frac{n_y}{2h}(T_{j+2,k,i}-4_{j+1,k,i})\right) \end{split}$$

At points of type 7 using one sided differences this is:

$$\begin{split} \frac{n_x}{2h} \left(T_{j,k-2,i} - 4T_{j,k-1,i} + 3T_{j,k,i} \right) + \frac{n_y}{2h} \left(-4T_{j,k,i} + 4T_{j+1,k,i} \right) &= -1 \\ \frac{3n_x}{2h} T_{j,k,i} - \frac{4n_y}{2h} T_{j,k,i} &= -1 + \frac{n_x}{2h} (4T_{j,k-1,i} - T_{j,k-2,i}) - \frac{n_y}{2h} T_{j+1,k,i} \\ T_{j,k,i} &= \left(\frac{3n_x - 4n_y}{2h} \right)^{-1} \left(-1 + \frac{n_x}{2h} (4T_{j,k-1,i} - T_{j,k-2,i}) - \frac{n_y}{2h} T_{j+1,k,i} \right) \end{split}$$

At points of type 8 using one sided differences this is:

$$\frac{n_x}{2h} \left(T_{j,k-2,i} - 4T_{j,k-1,i} + 3T_{j,k,i} \right) = -1$$
$$T_{j,k,i} = -\frac{2h}{n_x} + 4T_{j,k-1,i} - T_{j,k-2,i}$$