Formula for a heated area around a radius

The **radius** of your bend plus (+) the **thickness** of your material times (x) 2, times (x) 3.1416, divided by (4 for a 90 degree) or (by 3 for a 180 degree) or (by 2 for 270 degree).

As an example, if I am bending ½" thick material with a radius in the bend of 1" to 180 degrees:

(1" +.5") x 2 x 3.1416 / 3 = 3.15" is the area I need to heat to insure that I am heating enough width to go around the OUTSIDE of the bend.

((1+ .5) x 2 x 3.1416) / 3 = 3.1416

This just gets you in the ballpark, it is not exact.