report_area:

```
Report : area
Design : tas
Version: L-2016.03-SP2
Date : Sun May 17 15:39:22 2020
Information: Updating design information... (UID-85)
Library(s) Used:
    saed 90nm\_typ~(File: /nfs/guille/al/cadlibs/synop\_lib/SAED\_EDK 90nm/Digital\_Standard\_Cell\_Library/synopsys/models/saed 90nm\_typ\_pg.db)
Number of nets:
                                        493
Number of cells:
                                        248
Number of combinational cells:
                                        154
Number of sequential cells:
                                         85
Number of macros/black boxes:
                                          0
Number of buf/inv:
                                         15
Number of references:
Combinational area:
                              1778.338990
Buf/Inv area:
                                  82.950003
Noncombinational area:
                              2263.442022
                                  0.000000
Macro/Black Box area:
                                196.606128
Net Interconnect area:
                               4041.781012
Total cell area:
Total area:
                               4238.387140
```

a. NAND2X1 =
$$5.5296 \mu m^2$$

Number of cells (gates) =
$$\frac{Total\ Area}{NAND\ Gate\ Area}$$
 = $\frac{4238.39\ \mu m^2}{5.5296\ \mu m^2}$ = 767