Cab1: number of slices: 25 of 14752 (1%)

Cab2: number of slices: 105 of 14752 (1%)

Cab3: number of slices: 62 of 14752 (1%)

Cab5: number of slices: 1446 of 14752 (9%)

microblaze: number of slices: 966 of 14752 (7%)

1 slice = 700 rbe

= 1481 rbe

= 1A (1 $m^2$ m space)

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Cab1: 25 * 700 = 17500 rbe = 17500/1481 = 12A

Cab2: 105 * 700 = 73500 rbe = 73500/1481 = 50A

Cab3: 62 * 700 = ~~23500 rbe = 23~~ 43400 rbe = 43400/1481 = 30A

Cab5: 1446 * 700 = 1008700 = 1008700/1481 = 681 A

microblaze: 966 * 700 = 676200 = 676200/1481 = 457 A

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Bus = 12 + 50 + 30 + 681 + 457 = 7355 A

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45nm = 493.93

Pd = 0.15 → yield = $e^{-PdA}$

Logical Area: 7355A/493.93 = 15A

Thermal area: 0.12 * 15 = 1.8 ≈ 2A

Total = 15A + 2 = 17A

yield = $e^{-(0.15)(0.017)}$ = 0.99 * 100 = 99%