Enumerating: (reorganizing history)

Evolution cartoon.
Artist Unknown.

Enumerating: (reorganizing history)

Evolution cartoon.
Artist Unknown. Modified by FADarchitecture

Source (a blog titled current.com. Alien image from drwill.com)
Ligus tree snails have their own unique patterns.

Source (http://flickr.com/photos/swamper/2712450354/)
Searching For Light….
Initial Population of 255 elementary cellular automata.
Units:

Unit one is designed to block out 100% of incoming light.

Unit two is designed to allow the maximum amount of light while still maintaining a structural connection to the other units.
Search Criteria:
Between 48% and 53% obstruction of glass surface.
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rule 109
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rule 109
Search Criteria:
Between 48% and 53% obstruction of glass surface.
Rule 45
Searching For a Bike Rack....
Combining discrete elements:
8 Standard Parts. 12 Hybrid Parts.
Total Kit of Parts = 20 parts *(no matter how complex the construction.)*
Designing the Search:
The search must return only solutions without the configurations marked in red.
Building a Bike Rack computer:
Four Color Cellular Automata
Total Possible Programs: 340282366920938463463374607431768211455
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Building a Bike Rack computer:
Four Color Cellular Automata capable of computing bike rack configurations.
Search Results:
Population of working configurations with a maximum length of 8ft.

Total: 63 selected from a population of 336
Building a Bike Rack computer:
Four Color Cellular Automata capable of computing bike rack configurations.
Fabricating an NKS bike rack: