**Table 1. Summary description of OUTEX dataset used.**

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| --- | --- | --- | --- | --- |
| Test Suite ID | Image Type | Texture Class | No.Samples | Information |
| Outex\_TC\_00013 | Color | 68  | 20x68=1360 | Rotation: 00 |
| Outex\_TC\_00030 | Color | 68 | 9x20x68 = 12240(9 directions) | Rotations: 00, 05, 10, 15, 30, 45, 60, 75, 90 |
| Outex\_TC\_00031 | Color | 68 | 40x68=2720 | Rotation: 00Different resolution |
| Outex\_TC\_00032 | Color | 68 | 40x68=2720 | Gaussian Noise σ=5 |
| Outex\_TC\_00033 | Color | 68 | 40x68=2720 | Gaussian Blur ρ=0.5 |
| Outex\_TC\_00034 | Color | 68 | 40x68=2720 | Different lighting:Inca, Horizon, TL84 |