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| **Clock Cycle** | **Signal** | **Description** |
| 0 | HSync,  VSync,  hsyncGen,  vsyncGen,  inDisplayArea |  |
| 1 | charWidthCounter,  charHeightCounter,  currentScanCharCol,  currentScanCharRow,  charBufferRdAddr,  charBufferRdEn  inDisplayArea\_r0,  hsync\_r0,  vsync\_r0 |  |
| 2 | charWidthCounter\_r0,  charHeightCounter\_r0,  charHeightCounterBlank\_r0,  charBufferRdData,  charROMRdAddr,  charROMRdEn,  inDisplayArea\_r1,  hsync\_r1,  vsync\_r1 |  |
| 3 | charHeightCounterBlank\_r1,  charWidthCounter\_r1,  inDisplayArea\_r2,  charROMRdData,  hsync\_r2,  vsync\_r2 |  |
| 4 | pixel  hsync,  vsync |  |