

510558891X  
510558XXXX  
510XXXXXXX



**Figure 2**

When using longest prefix matching on a CAM, table order defines priority. Entries hold as many bits as necessary to differentiate entries from each other. This table routes all phone numbers for the 510 area code. Numbers starting 510558 route differently from all other 510 numbers, and 510558891 numbers also route differently. For any given number, the longest match (closest to the front of the table) yields the correct destination route for that number.