PARKING LOT DESIGN HANDOUT


| Table 4.1 after p. 140-141 of 5th ed. of Tompkins, et al. text (Ramsey \& Sleeper). |  |  |  |  |  |  | Parking Angle ( $\theta$ ) |  |  | $80^{\circ}$ | $85^{\circ}$ | $90^{\circ}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Stall Width | Module Width | $45^{\circ}$ | $50^{\circ}$ | $55^{\circ}$ | $60^{\circ}$ | $65^{\circ}$ | $70^{\circ}$ | $75^{\circ}$ |  |  |  |
| Small Cars | 8'0" | 1 | 25'9" | 26'6" | 27'2' | 29'4" | 31'9' | $34{ }^{\prime \prime}$ | 36'2' | 38'2' | 40'0' | 41'9" |
|  |  | 2 | 40'10" | $42^{\prime \prime} 0^{\prime \prime}$ | 4311 | $45^{\prime \prime}{ }^{\prime \prime}$ | 48'2" | 50'6" | 52'7" | 54'4" | 55'11" | 57'2" |
|  |  | 3 | 38'9" | 40'2' | 41'5" | 44 '2" | 47'0" | 49'6" | 51'10" | $53^{\prime} 10{ }^{\prime \prime}$ | 55'8' | 57'2' |
|  |  | 4 | 36'8' | 38'3" | 39'9" | 42'9" | $45 ' 91$ | 48'6" | 51'1" | 53'4" | 55'5" | 57'2' |
| Standard Cars | 8'6" | 1 | $32{ }^{\prime \prime}$ | 32'11" | 34'2' | 36'2" | 38'5' | 41'0" | 43'6" | $45 ' 6$ " | 46'11" | 48'0" |
|  |  | 2 | 49'10" | 51'9" | 53'10" | 56'0" | 58'4' | 60'2' | 62'0" | 63'6" | 64'9" | $66^{\prime} 0^{\prime \prime}$ |
|  |  | 3 | 47'8' | 49'4" | 51'6" | 54'0" | 56'6" | 59'0" | $612{ }^{\prime \prime}$ | $63^{\prime \prime}{ }^{\prime \prime}$ | 64'6" | 66'0" |
|  |  | 4 | 45'3" | 46'10" | 49'0" | 51'8" | 54'6" | 57'10" | 60'0" | 62'6" | 64'3" | $66^{\prime} 0^{\prime \prime}$ |
|  | 9'0" | 1 | $32{ }^{\prime \prime}$ | 32'9" | 34'0" | 35'4" | 37'6" | 39'8" | $42^{\prime} 0$ " | 44'4" | 46'2" | 48'0" |
|  |  | 2 | 49'4" | 51'0" | 53'2' | 55'6" | 57'10" | 60'0" | 61'10" | 63'4" | 64'9" | 66'0" |
|  |  | 3 | 46'4" | $48^{\prime} 10^{\prime \prime}$ | 51'4" | 53'10" | $56{ }^{\prime \prime}$ | 58'8" | 61'0" | $63^{\prime \prime}{ }^{\prime \prime}$ | 64'6" | 66'0" |
|  |  | 4 | $44{ }^{\prime \prime}{ }^{\prime \prime}$ | 46'6" | $49^{\prime \prime}{ }^{\prime \prime}$ | 51'6" | $54{ }^{\prime \prime}$ | 57'0' | 59'8" | 62 '0" | 64'2" | 66'0" |
|  | 9'6" | 1 | 32'0" | 32'8" | 34'0" | 35'0" | 36'10" | 38'10" | 41'6" | 43 '8" | 46'0" | 48'0" |
|  |  | 2 | 49'2" | 50'6" | 51'10" | 53'6" | 55'4" | $58^{\prime} 0^{\prime \prime}$ | 60'6" | $62^{\prime \prime} 8^{\prime \prime}$ | 64'6" | 65'11" |
|  |  | 3 | 47'0" | 48'2' | 49'10" | 51'6" | 53'11" | 57'0' | 59'8" | 62'0" | 64'3" | 65'11" |
|  |  | 4 | 44'8" | 45'10" | 47'6" | 49'10" | 52'6" | 55'9" | 58'9" | 61'6" | 63'10" | 65'11" |
| Large Cars | 9'0" | 1 | $32{ }^{\prime \prime}$ | 33 '0" | 34'0" | 35'11" | 38'3" | 40'11 | 43'6" | 45'5" | 46'9" | 48'0" |
|  |  | 2 | 50'2' | 51'2" | 53'3" | 55'4" | 58'0" | 60'4' | 62'9" | 64'3" | 65'5" | 66'0" |
|  |  | 3 | 47'9" | 49'1" | 52'3' | 53'8" | 56'2' | 59'2' | 61'11" | 63'9" | 65'2" | 66'0" |
|  |  | 4 | $45 ' 5$ " | 46'11" | 49'0" | 51'8" | 54'9" | 58'0" | 61'0" | 62'2" | 64'10" | 66'0" |
|  | 9'6" | 1 | 32'4" | 32 '8" | 33'10" | 34'11" | 37'2' | 39'11" | 42'5" | $45^{\prime \prime}{ }^{\prime \prime}$ | 46'6" | $48^{\prime} 0^{\prime \prime}$ |
|  |  | 2 | 49'11" | 50'11" | 52'2' | $54{ }^{\prime \prime}$ | 56'6" | 59'3" | 61'9" | 63'4" | 64'8" | $66^{\prime} 0$ " |
|  |  | 3 | 47'7' | 48'9" | 50'2' | 52'4" | 55'1' | 58'4" | 60'11" | 62'10" | 64'6" | $66^{\prime} 0^{\prime \prime}$ |
|  |  | 4 | 45'3" | 46'8' | 48'5" | 50'8" | 53'8" | 57'0" | 59'10" | 52'2" | 64'1" | $66^{\prime} 0^{\prime \prime}$ |
|  | 10'0" | 1 | 32'4" | 32'8" | 33'10" | 34'11" | 37'2' | 39'11" | 42'5" | $45^{\prime \prime}$ | 46'6" | $48^{\prime} 0^{\prime \prime}$ |
|  |  | 2 | 49'11" | 50'11" | 52'2" | $54{ }^{\prime \prime}$ | 56'6" | 59'3' | 61'9" | 63'4" | 64'8" | $66^{\prime} 0^{\prime \prime}$ |
|  |  | 3 | 47'7" | 48'9" | 50'2' | 52'4" | 55'1' | 58'4" | 60'11" | 62'11" | 64'6" | 66'0" |
|  |  | 4 | 45'3' | 46'8" | $48^{\prime \prime} 5^{\prime \prime}$ | 50'8" | 53'8" | 57'0" | 59'10" | 62'2" | 64'1" | 66'0' |

