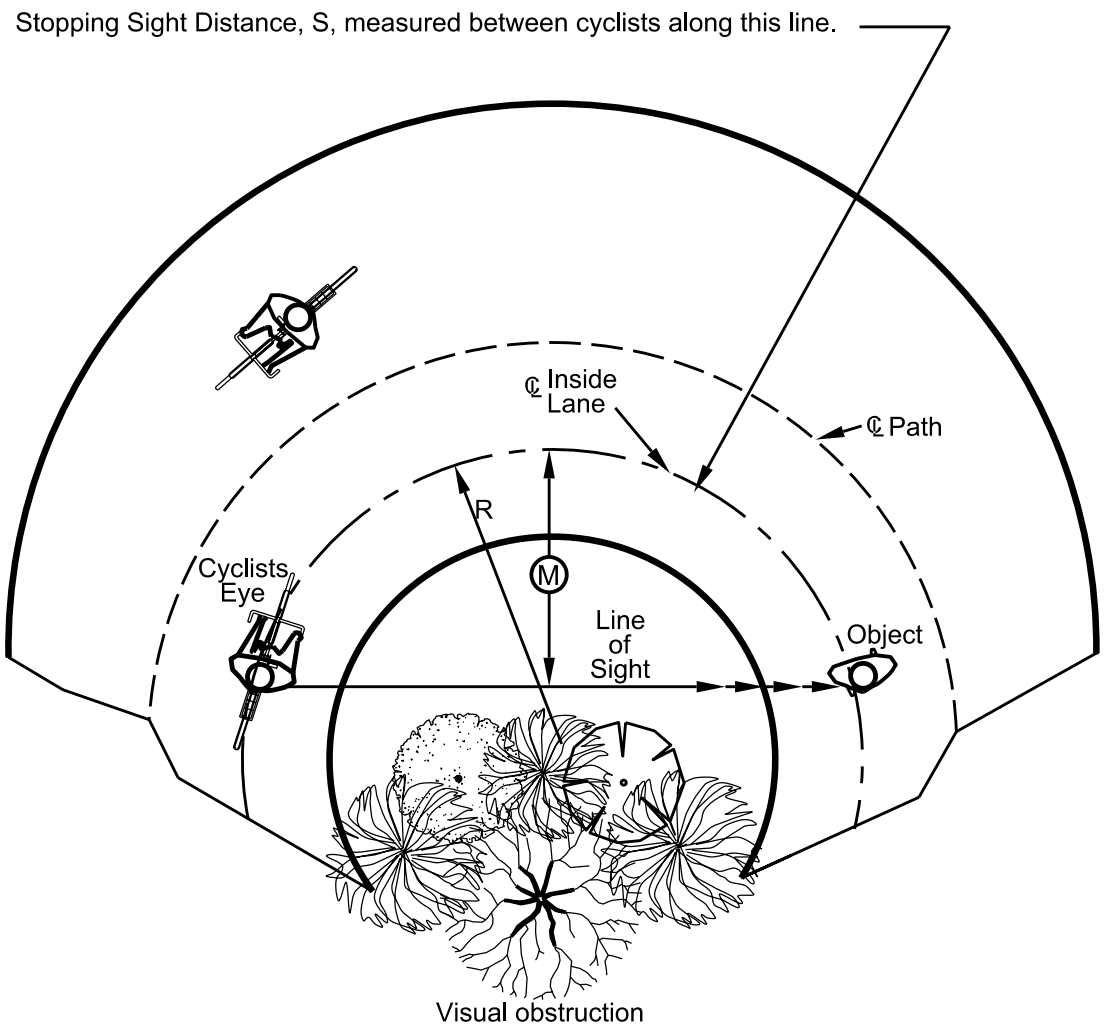

Angle is expressed in degrees

$$M = R\left[1 - \cos\left(\frac{28.65\,S}{R}\right)\right]$$

$$S = \frac{R}{28.65}\left[\cos^{-1}\left(\frac{R-M}{R}\right)\right]$$

Formula applies only if S ≤ length of curve.

Line of sight is 28 in. above centerline of inside lane at point of obstruction.

R = Radius to centerline of inside lane, ft.
M = Distance from centerline of inside lane to obstruction, ft.

LATERAL CLEARANCE AT HORIZONTAL CURVE

FIGURE 51-7J