Width of the intersection: 5 m

Duration of yellow light: 2 s

Initial speed of the car: 20 m/s

Distance from intersection: 40 m

Deceleration: 3 m/s^2

Acceleration: 3 m/s^2

Minimum distance needed for car to stop: 34.0

Maximum distance car will manage to pass: 46.0

THE CAR WILL MANAGE TO PASS THROUGH THE INTERSECTION

THE CAR WILL MANAGE TO STOP BEFORE THE INTERSECTION

=============================================================

Width of the intersection: 12 m

Duration of yellow light: 4 s

Initial speed of the car: 80 m/s

Distance from intersection: 100 m

Deceleration: 2 m/s^2

Acceleration: 2 m/s^2

Minimum distance needed for car to stop: 304.0

Maximum distance car will manage to pass: 336.0

THE CAR WILL MANAGE TO PASS THROUGH THE INTERSECTION

=============================================================

Width of the intersection: 5 m

Duration of yellow light: 5 s

Initial speed of the car: 80 m/s

Distance from intersection: 40 m

Deceleration: 2 m/s^2

Acceleration: 1 m/s^2

Minimum distance needed for car to stop: 375.0

Maximum distance car will manage to pass: 412.5

THE CAR WILL MANAGE TO PASS THROUGH THE INTERSECTION

=============================================================

Width of the intersection: 12 m

Duration of yellow light: 2 s

Initial speed of the car: 60 m/s

Distance from intersection: 130 m

Deceleration: 3 m/s^2

Acceleration: 3 m/s^2

Minimum distance needed for car to stop: 114.0

Maximum distance car will manage to pass: 126.0

THE CAR WILL MANAGE TO STOP BEFORE THE INTERSECTION

=============================================================

Width of the intersection: 12 m

Duration of yellow light: 4 s

Initial speed of the car: 60 m/s

Distance from intersection: 10 m

Deceleration: 2 m/s^2

Acceleration: 3 m/s^2

Minimum distance needed for car to stop: 224.0

Maximum distance car will manage to pass: 264.0

THE CAR WILL MANAGE TO PASS THROUGH THE INTERSECTION

=============================================================

Width of the intersection: 19 m

Duration of yellow light: 4 s

Initial speed of the car: 20 m/s

Distance from intersection: 70 m

Deceleration: 1 m/s^2

Acceleration: 1 m/s^2

Minimum distance needed for car to stop: 72.0

Maximum distance car will manage to pass: 88.0

THE CAR WILL NOT MANAGE TO DO ANYTHING

=============================================================

Width of the intersection: 19 m

Duration of yellow light: 2 s

Initial speed of the car: 40 m/s

Distance from intersection: 70 m

Deceleration: 3 m/s^2

Acceleration: 1 m/s^2

Minimum distance needed for car to stop: 74.0

Maximum distance car will manage to pass: 82.0

THE CAR WILL NOT MANAGE TO DO ANYTHING

=============================================================

Width of the intersection: 12 m

Duration of yellow light: 3 s

Initial speed of the car: 40 m/s

Distance from intersection: 130 m

Deceleration: 2 m/s^2

Acceleration: 3 m/s^2

Minimum distance needed for car to stop: 111.0

Maximum distance car will manage to pass: 133.5

THE CAR WILL MANAGE TO STOP BEFORE THE INTERSECTION

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