



# CMF / CRF Details

CMF ID: 7910

Roundabout geometry

Description: Various geometric elements of roundabout

Prior Condition: Entry angle 30 degrees

Category: Intersection geometry

Study: [Development of Safety Performance Measures for Urban Roundabouts in India, Anjana and Anjaneyulu, 2015](#)

Star Quality Rating:

3 Stars

[\[View score details\]](#)

## Crash Modification Factor (CMF)

Value:

$$CMF_{PDO,EA} = \exp [0.015 \times (EA - 30)]$$

Adjusted Standard Error:

Unadjusted Standard Error:

## Crash Reduction Factor (CRF)

Value:

(This value indicates an **increase** in crashes)

Adjusted Standard Error:

Unadjusted Standard Error:

## Applicability

**Crash Type:**

All

**Crash Severity:**

0 (property damage only)

**Roadway Types:**

Not specified

**Number of Lanes:**

**Road Division Type:**

**Speed Limit:**

**Area Type:**

Urban

**Traffic Volume:**

**Time of Day:**

All

### *If countermeasure is intersection-based*

**Intersection Type:**

**Intersection Geometry:**

No values chosen.

**Traffic Control:**

Roundabout

**Major Road Traffic Volume:**

19197 to 71307 Average Daily Traffic (ADT)

**Minor Road Traffic Volume:**

## Development Details

**Date Range of Data Used:**

2008 to 2010

**Municipality:**

Kerala

**State:**

**Country:**

India

<b>Type of Methodology Used:</b>	7
<b>Sample Size Used:</b>	

<b>Other Details</b>	
<b>Included in Highway Safety Manual?</b>	No
<b>Date Added to Clearinghouse:</b>	Mar-08-2016
<b>Comments:</b>	CMF function for non-injury (PDO) crashes for Entry Angle (EA) of roundabout (degree). The CMF applies to roundabout approaches.

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