



# CMF / CRF Details

CMF ID: 4026

**Change roundabout circulating sight distance from X to Y**

**Description:** Changing roundabout circulating sight distance from X to Y. Refer to the study for descriptions of roundabout sight distances.

**Prior Condition:** Circulating sight distance X

**Category:** Intersection geometry

**Study:** [The Influence of Driver Sight Distance on Crash rates and Driver Speed at Modern roundabouts in the United States, Angelastro, 2010](#)

Star Quality Rating:

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

## Crash Modification Factor (CMF)

Value:

$$CMF = \frac{Y}{X}$$

Adjusted Standard Error:

Unadjusted Standard Error:

## Crash Reduction Factor (CRF)

**Value:**

$$CRF = 100 * \left(1 - \frac{Y}{X}\right)$$

**Adjusted Standard Error:**

**Unadjusted Standard Error:**

### Applicability

**Crash Type:**

Rear end

**Crash Severity:**

All

**Roadway Types:**

Not Specified

**Number of Lanes:**

**Road Division Type:**

All

**Speed Limit:**

**Area Type:**

Not specified

**Traffic Volume:**

**Time of Day:**

Not specified

### *If countermeasure is intersection-based*

**Intersection Type:**

Roadway/roadway (not interchange related)

**Intersection Geometry:**

Not specified

**Traffic Control:**

**Major Road Traffic Volume:**

434 to 7300 Annual Average Daily Traffic (AADT)

**Minor Road Traffic Volume:**

## Development Details

<b>Date Range of Data Used:</b>	
<b>Municipality:</b>	
<b>State:</b>	
<b>Country:</b>	
<b>Type of Methodology Used:</b>	7
<b>Sample Size Used:</b>	26 Sites

## Other Details

<b>Included in Highway Safety Manual?</b>	No
<b>Date Added to Clearinghouse:</b>	Jun-04-2012
<b>Comments:</b>	Note: This CMF applies to ENTRY rear-end crashes

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