REPORT NO. 111-KAR-08-001

SAFETY COMPLIANCE TESTING FOR FMVSS 111

REARVIEW MIRRORS (Other Than School Buses)

2008 CHRYSLER 300 4-DOOR SEDAN

NHTSA NO: C80307

PREPARED BY:
KARCO ENGINEERING LLC.
9270 HOLLY ROAD
ADELANTO, CALIFORNIA 92301



AUGUST 25, 2008

FINAL REPORT

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1200 NEW JERSY AVE SE, ROOM W43-498
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11/1/11

| Prepared by: | Mr. Jonathan F. Williams, Test Engineer KARCO Engineering, LLC. | Date: _ | August 25, 2008 |
|-----------------|---|--------------------|-----------------|
| Reviewed by: | Mr. Michael L. Dunlap, Director of Operations KARCO Engineering, LLC. | Date: _. | August 25, 2008 |
| Approved by: | Mr. Frank D. Richardson, Program Manager KARCO Engineering, LLC. | Date: ₋ | August 25, 2008 |
| FINAL REPORT | ACCEPTED BY: | | |
| | Steffer | | |
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1. PURPOSE OF COMPLIANCE TEST

Tests were conducted on a 2008 Chrysler 300 4-door Sedan, manufactured by Chrysler LLC, to determine compliance with FMVSS 111, "Rearview Mirrors (Other than School Buses)". The purpose of this standard is to reduce the number of deaths and injuries that occur when the driver of a motor vehicle does not have a clear and reasonably unobstructed view to the rear.

All tests were conducted based on the current National Highway Traffic Safety Administration (NHTSA), Office of Vehicle Safety Compliance (OVSC) Laboratory Procedures, TP111V-00, dated October 28, 1999, and corresponding KARCO Engineering test procedure KTP-111, dated April 18, 2001. Detailed procedures for receiving, inspecting, testing and reporting of test results are described in the test procedures and are not repeated in this report.

This report is organized in sections containing pertinent test information and data tables as follows:

Section 1 Purpose of Compliance Test

Section 2 Compliance Test Procedure and Data Summary

Section 3 Test Results

Appendix A Photographs

Appendix B Data Plots

Appendix C Test Equipment List and Calibration Information
Appendix D Eylipsipe Location Supplied By Manufacturer

2. COMPLIANCE TEST PROCEDURE AND DATA SUMMARY

A 2008 Chrysler 300 4-door Sedan was subjected to FMVSS 111 compliance testing. The tests were conducted at KARCO Engineering LLC. in Adelanto, California on July 31, 2008 through August 25, 2008. Summary data is shown on page 24, Data Sheet No. 8. The following tests were performed:

- Inspection
- Mounting Adequacy Test
- Field-of-View Test, Inside Rearview Mirror
- Field-of-View Test, Driver's Side Outside Mirror
- Reflectance Test
- Breakaway Test
- Unit Magnification and Convex Mirror Tests

The tests were conducted per the FMVSS 111 test procedure. The significant aspects of the test procedure are described in the following paragraphs.

A. INSPECTION

Inspect the installation of the inside and outside rearview mirrors.

B. MOUNTING ADEQUACY TEST – ALL REARVIEW MIRRORS

B.1 INSIDE MIRROR (\$5.1.2)

Determine that the mirror is securely mounted and determine the positive and negative angles of adjustment for both the vertical and horizontal directions.

B.2 OUTSIDE MIRROR(S) (\$5.2.2 and \$5.3)

Determine that the mirror(s) is (are) securely mounted. Determine that the driver's side mirror can be tilted in both horizontal and vertical directions from the driver's seated position. Determine that the passenger's side mirror is capable of adjustment by tilting in both the horizontal and vertical directions. Determine the positive and negative angles of adjustment for both horizontal and vertical directions for all outside mirrors. Determine that all outside mirrors are free of sharp points or edges that could contribute to pedestrian injury.

C. FIELD-OF-VIEW TEST – INSIDE REARVIEW MIRROR

C.1 REQUIREMENTS (S5.1.1)

The mirror shall provide a field of view with an included horizontal angle measured from the projected eye point of at least 20 degrees, and sufficient vertical angle to provide a view of a level road surface extending to the horizon beginning at a point not greater than 61m (200 feet) to the rear of the vehicle when the vehicle is occupied by the driver and four passengers or the designated occupant capacity, if less. The line of sight may be partially obscured by seated occupants or by head restraints.

Each car whose inside mirror does not meet the field of view requirements of S5.1.1 shall have an outside mirror of unit magnification or a convex mirror installed on the passenger's side. (S5.3)

D. FIELD-OF-VIEW TEST, DRIVER'S SIDE OUTSIDE REARVIEW MIRROR

D.1 REQUIREMENTS (S5.2)

Each passenger car shall have an outside mirror of unit magnification. The mirror shall provide the driver a view of a level road surface extending to the horizon from a line, perpendicular to a longitudinal plane tangent to the driver's side of the vehicle at the widest point, extending 2.4 meters (8 feet) out from the tangent plane 10.7 meters (35 feet) behind the driver's eyes, with the seat in the rearmost position. The line of sight may be partially obscured by rear body or fender contours. (\$5.2.1)

Neither the mirror nor the mounting shall protrude farther than the widest part of the vehicle body except to the extent necessary to produce a field of view meeting or exceeding the requirements of S5.2.1. The mirror shall not be obscured by the un-wiped portion of the windshield. (S5.2.2)

E. REFLECTANCE TEST – ALL MIRRORS

E.1 REQUIREMENT (S11)

All single reflectance mirrors shall have an average reflectance of at least 35 percent. If a mirror is capable of multiple reflectance levels, the minimum reflectance level in the day mode shall be at least 35 percent and the minimum reflectance level in the night mode shall be at least 4 percent. The average reflectance of any mirror required by this standard shall be determined in accordance with SAE Recommended Practice J964, OCT 84.

F. BREAKAWAY TEST – INSIDE REARVIEW MIRROR

F.1 REQUIREMENTS (S5.1.2)

If the mirror is in the head impact area, the mounting shall deflect, collapse, or break away without leaving sharp edges when the reflective surface of the mirror is subjected to a force of 400 N (90 lb) in any forward direction that is not more than 45 degrees from the longitudinal direction.

G. UNIT MAGNIFICATION AND CONVEX MIRROR TESTS

G.1 REQUIREMENTS FOR PASSENGER CARS (S5.3 and S5.4)

The driver's side rearview mirror and the inside rearview mirror shall be unit magnification. If the field-of-view requirements are not met with the inside rearview mirror then the passenger's side rearview mirror is required. It can be either unit magnification or convex.

If the passenger's side mirror is convex, the average radius of curvature shall be not less than 889 mm (35 inches) and not more than 1651 millimeters (65 inches) and shall not deviate from the average by more than plus or minus 12.5 percent. The convex mirror shall have permanently and indelibly marked at the lower edge of the mirror's reflective surface in letters not less than 4.8 mm (3/16 inch) nor more than 6.4 mm (0.25 inch) high the words, "Objects in Mirror Are Closer Than They Appear."

3. TEST DATA

The results of FMVSS 111 compliance tests that were conducted on the 2008 Chrysler 300 4-door Sedan on July 31, 2008 through August 25, 2008 to determine compliance with FMVSS 111, "Rearview Mirrors (other than School Buses)" are presented in this section.

DATA SHEET NO. 1 VEHICLE INSPECTION AND IDENTIFICATION

TEST VEHICLE INFORMATION AND OPTIONS

| NHTSA No.: | C80307 |
|--------------------------|-------------------|
| Make | Chrysler |
| Model | 300 |
| Body Style | 4-Door Sedan |
| Vin No. | 2C3KA43R48H225623 |
| Color | Cool Vanilla |
| Delivery Date | 9/18/2007 |
| Odometer (Miles) | 59 |
| Dealer | Ontario Chrysler |
| Transmission | Automatic |
| Final Drive | Rear |
| Type/No. Cyl. | 6 |
| Engine Disp. (L) | 2.7 |
| Engine Placement | Longitudinal |
| Tire Press./ Max (Front) | 300 kPa |
| Tire Press./ Max (Rear) | 300 kPa |
| Recommended Tire Size | P215/65R17 |
| Tire Size on vehicle | P215/65R17 |
| Air Conditioning | Yes |
| Disc Brakes (Front) | Yes |
| Disc Brakes (Rear) | Yes |

| Anti-Lock Brakes | Yes |
|--------------------------|---------|
| All Wheel Drive | No |
| Power Steering | Yes |
| Driver Front Airbag | Yes |
| Driver Side Airbag | No |
| Driver Head Airbag | No |
| Driver Curtain Airbag | Yes |
| Pass. Airbag | Yes |
| Pass. Side Airbag | Yes |
| Pass. Head Airbag | No |
| Pass. Curtain Airbag | Yes |
| Pre-Tensioners | Yes |
| Load Limiters | Yes |
| Bucket Seats | Yes |
| Cold Tire Press. (Front) | 210 kPa |
| Cold Tire Press. (Rear) | 210 kPa |
| Tilt Steering | Yes |
| Automatic Door Locks | Yes |
| Power Windows | Yes |
| Power Seats | Yes |
| Other | N/A |

DATA FROM MANUFACTURER

| Manufactured By | Chrysler LLC. | | |
|---------------------|---------------|--|--|
| Date of Manufacture | Feb-08 | | |

| GWVR (kg) | 2225 |
|-----------------|------|
| GAWR Front (kg) | 1275 |
| GAWR Rear (kg) | 1275 |

TEST VEHICLE ATTITUDES (mm)

| ATTITUDE | LF | RF | LR | RR |
|-----------------|------|-----|-----|-----|
| As Delivered | 785 | 782 | 798 | 786 |
| As Tested | 768 | 765 | 765 | 750 |
| Rearview Mirror | 1267 | | | |

| Vehicle Information | | | | | | |
|---------------------|----------|--------------|-------------------|--|--|--|
| Year: | 2008 | Make | Chrysler | | | |
| Model: | 300 | Body Style | 4-Door Sedan | | | |
| NHTSA No: | C80307 | VIN | 2C3KA43R48H225623 | | | |
| Test Date: | 07/31/08 | Temperature: | 85°F | | | |

LEGEND: LE = Left Eye; RE = Right Eye; P = Neck Pivot Point, SRP = Seating Reference Point

COORDINATE SYSTEM:

X = Longitudinal Dimension

Y = Lateral Dimension

Z = Vertical Dimension

Positive Values are as follows:

X = Forward of Reference Point

Y = Outboard of Reference Point (to driver's side)

Z = Above Reference Point

Provide Reference Point or Body Fiduciary Point that dimensions below are measured from. (Point should be usable by laboratory personnel, i.e., center of an anchorage bolt, door jam latch, etc.).

| COORDIN- ATES | LEFT SIDE MIRROR | | INSIDE MIRROR | | RIGHT SIDE MIRROR | | | SRP | | |
|---|---|--------|--|----|---|-------|----|-----|-----|--|
| | P1 | LE1 | RE1 | P2 | LE2 | RE2 | P3 | LE3 | RE3 | |
| X | | 985.8 | 958.8 | | 981.9 | 981.9 | | N/A | N/A | |
| Υ | | -380.3 | -446 | | -442.7 | 507.7 | | N/A | N/A | |
| Z | | 792.6 | 792.6 | | 791.5 | 791.5 | | N/A | N/A | |
| Mirror Mfr., Model And Part No. | SCHEFENACKER VISION SYSTEMS 4805981AH | | DONNELLEY CORPORATION 55156172AA | | SCHEFENACKER VISION SYSTEMS 4805980AH | | | | | |
| SRP Travel and Eye- Ilipse | | | | | | | | | | |

Reference Point – Body Side Aperture Four-way Gage Hole Near Front Door Lower Hinge Face. (X=1980,Y=-828, Z=680)

| Date of Inspection/Identification: | 07/31/08 | | |
|---|--------------------|--|--|
| Types of Rearview Mirrors: | | | |
| Inside Rearview | Unit Magnification | | |
| Driver' Side Outside | Unit Magnification | | |
| Passenger's Side Outside | Convex | | |
| Location and Description of Fiducial Marks: | See Previous Page | | |
| Maximum Number of Occupants: | 5 | | |

| | | 5 |
|----------------------------------|-------|----------|
| | | |
| RESULTS OR RECEIVING INSPECTION: | | |
| PASS - X | | |
| FAIL | | |
| CONDITIONAL - | | |
| CONDITIONS: | | |
| DISPOSITION/ACTION: | | |
| | | |
| REMARKS: | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| RECORDED BY: JONATHAN WILLIAMS | DATE: | 08/25/08 |

8

APPROVED BY: MICHAEL L. DUNLAP

111-KAR-08-001

08/25/08

DATE:

DATA SHEET NO. 2 MOUNTING AND TILTING ADEQUACY TEST

| Vehicle Information | | | | |
|---------------------|----------|--------------|-------------------|--|
| Year: | 2008 | Make | Chrysler | |
| Model: | 300 | Body Style | 4-Door Sedan | |
| NHTSA No: | C80307 | VIN | 2C3KA43R48H225623 | |
| Test Date: | 07/31/08 | Temperature: | 85°F | |

| MIRROR MOUNTING PROVIDES A STABLE SUPPORT | PASS | FAIL | CONDITIONAL |
|---|------|------|-------------|
| INSIDE REARVIEW MIRROR | Х | | |
| DRIVER SIDE OUTSIDE MIRROR | Х | | |
| PASSENGER SIDE OUTSIDE MIRROR | Х | | |

| OUTSIDE MIRRORS FREE OF SHARP POINTS OR EDGES | PASS | FAIL |
|---|------|------|
| DRIVER SIDE OUTSIDE MIRROR | Х | |
| PASSENGER SIDE OUTSIDE MIRROR | Х | |

| MIRROR IS ADJUSTABLE VERTICALLY & HORIZONTALLY | PASS | FAIL | CONDITIONAL |
|--|------|------|-------------|
| INSIDE REARVIEW MIRROR | Х | | |
| DRIVER SIDE OUTSIDE MIRROR | Х | | |
| PASSENGER SIDE OUTSIDE MIRROR | Х | | |

| DRIVER'S OUTSIDE MIRROR ADJUSTABLE FROM THE DRIVER'S SEATED POSITION | PASS | FAIL |
|--|------|------|
| DRIVER SIDE OUTSIDE MIRROR | X | |

| MIRROR ADJUSTMENT ANGLE | V+ | V- | H+ | H- |
|-------------------------------|-------|---------|-----|------|
| INSIDE REARVIEW MIRROR | 20° | -103.3° | 60° | -60° |
| DRIVER SIDE OUTSIDE MIRROR | 17.1° | -8.4° | 30° | -7° |
| PASSENGER SIDE OUTSIDE MIRROR | 16.3° | -8.2° | 40° | -25° |

THIS SECTION IS RESERVED FOR MPVs, TRUCKS AND BUSES, OTHER THAN SCHOOL BUSES, NOT CONFORMING TO PASSENGER CAR REQUIREMENTS

| MIRROR PROVIDES A VIEW TO THE REAR ALONG BOTH SIDES OF THE VEHICLE | PASS | FAIL | CONDITIONAL |
|--|------|------|-------------|
| DRIVER SIDE OUTSIDE MIRROR | N/A | | |
| PASSENGER SIDE OUTSIDE MIRROR | N/A | | |

| TEST STATUS: | PASSED — | X | FAILED — | | |
|--------------|------------------|----|----------|----------|--|
| RECORDED BY: | JONATHAN WILLIAN | MS | DATE: | 08/25/08 | |
| APPROVED BY: | MICHAEL L. DUNLA | P | DATE: | 08/25/08 | |

DATA SHEET NO. 3 FIELD OF VIEW TEST - INSIDE REARVIEW MIRROR

| Vehicle Information | | | | |
|---------------------|----------|--------------|-------------------|--|
| Year: | 2008 | Make | Chrysler | |
| Model: | 300 | Body Style | 4-Door Sedan | |
| NHTSA No: | C80307 | VIN | 2C3KA43R48H225623 | |
| Test Date: | 07/31/08 | Temperature: | 85°F | |

| Е | Distance from center of mirror to projected eye point location = | 710.0 mm |
|----|--|----------------------|
| Α | Distance from rear of vehicle to projected eye point location = | 3792.0 mm |
| X1 | Distance from rear of vehicle to field of view grid = | 8213.0 mm |
| Z1 | Vertical distance to lowest point of field of view at distance X1 | 637.0 mm |
| Z2 | Height of center of mirror = | 1267.0 mm |
| X2 | Distance from rear of vehicle where the road surface is first visible $X2 = [(Z2 \times X1) + (Z1 \times A)]/(Z2 - Z1) = (S111 REQUIREMENT = 61m maximum)$ | 20351.4 mm (20.35 m) |

| EYE LOCATION | MONOCULAR DATA (ALR & ARL ARE ANGLES) | | | |
|-----------------|---------------------------------------|-------------------|-------|-------|
| | YL (mm) YR (mm) ALR (°) AF | | | |
| LEFT EYE POINT | YLL =1124 | YRL = 2658 | | 12.48 |
| RIGHT EYE POINT | YLR = 2329 | YRR = 1743 | 10.98 | |

CALCULATED HORIZONTAL AMBINOCULAR VIEW ANGLE (AB)

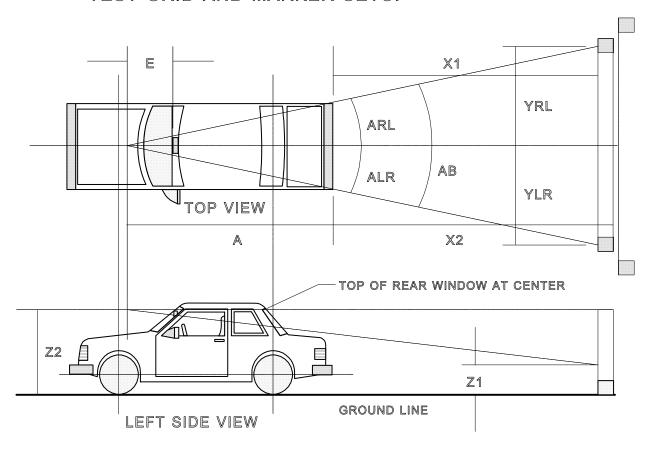
ANGLE AB = ANGLE ALR + ANGLE ARL

 $ALR = TAN - [1YLR/(X1 + A)] \qquad ARL = TAN - [1YRL/(X1 + A)]$

ANGLE AB = 23.46° (S111 REQUIREMENT = 20 degrees minimum)

| TEST STATUS: | PASSED — | x | FAILED — | |
|--------------|----------|---|----------|--|
|--------------|----------|---|----------|--|

INSIDE REARVIEW MIRROR FIELD OF VIEW TEST GRID AND MARKER SETUP



DRIVER SIDE MIRROR (S5.2) YES NO X MIRROR OBSCURED BY UNWIPED PORTION OF WINDSHIELD HEIGHT OF TARGET DISC ON MIRROR 1222 mm DISTANCE OF TARGET DISC ON MIRROR FROM VEHICLE TANGENT PLANE 65 mm TARGET DISC LOCATION RELATIVE TO VEHICLE TANGENT PLANE INBOARD (Inboard or Outboard) ENTIRE TRIANGULAR TEST TARGET AREA ON SCREEN VISIBLE YES X NO YES X_ NO ____ MIRROR PROTRUDES BEYOND VEHICLE TANGENT PLANE PROTRUSION REQUIRED TO MEET FIELD OF VIEW REQUIREMENT YES X NO _____ PASSED — FAILED — TEST STATUS: Χ PASSENGER SIDE MIRROR (S5.3 or MFG. OPTION) PASSENGER SIDE MIRROR TYPE (convex or unit magnification) CONVEX **REMARKS:** VEHICLE ATTITUDE AND GROUND LEVEL WERE RAISED 4" (101.6) TO PERFORM THE TEST.

MICHAEL L. DUNLAP

RECORDED BY: **JONATHAN WILLIAMS**

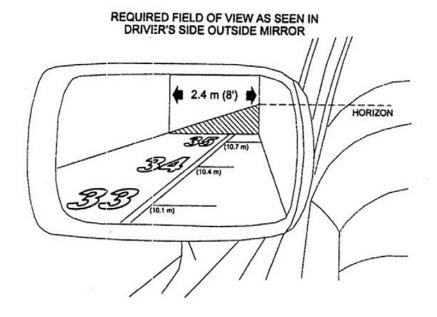
APPROVED BY:

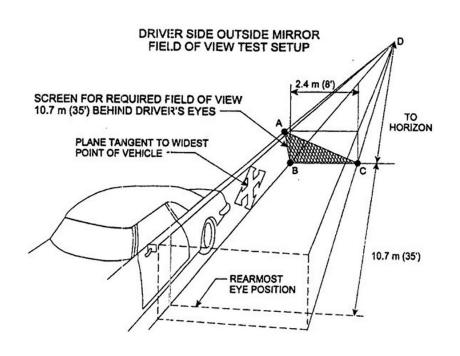
08/25/08

08/25/08

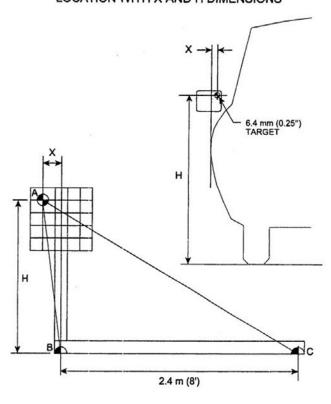
DATE:

DATE:

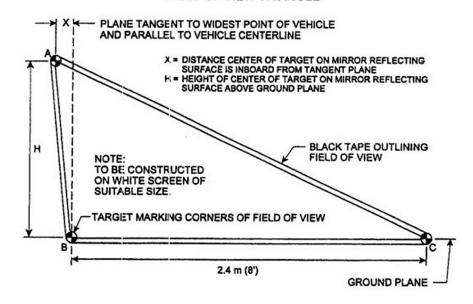




DRIVER SIDE OUTSIDE MIRROR TARGET DISC LOCATION WITH X AND H DIMENSIONS



DRIVER SIDE OUTSIDE MIRROR REQUIRED FIELD OF VIEW TRIANGLE



DATA SHEET NO. 4 REFLECTANCE TEST

| Vehicle Information | | | |
|---------------------|----------|--------------|-------------------|
| Year: | 2008 | Make | Chrysler |
| Model: | 300 | Body Style | 4-Door Sedan |
| NHTSA No: | C80307 | VIN | 2C3KA43R48H225623 |
| Test Date: | 08/12/08 | Temperature: | 70°F |

DESCRIPTION OF TEST APPARATUS: THE APPARATUS CONSISTS OF AN INCANDESCENT TUNGSTEN FILAMENT LAMP OPERATING AT A NOMINAL COLOR TEMPERATURE OF 2,856 K, COLLIMATING OPTICS, A SAMPLE HOLDER POSITIONED AT 25°, A SILICON PHOTOCELL, AND A FLUKE 45 DUAL DISPLAY MULTIMETER (CALIBRATION DUE DATE 3-26-08). REFLECTANCE TESTS ARE CONDUCTED IN A 4'X6' WOODEN CABINET PAINTED FLAT BLACK. FOR CONVEX MIRROR A 6" INTEGRATING SPHERE WAS INCORPORATED INTO THE RECEIVER.

MIRROR DESCRIPTION: INTERIOR DAY/NIGHT REARVIEW MIRROR

VOLTAGE READING FROM CALIBRATION (Average Value): 284.0 mV

VOLTAGE READING FROM LIGHT REFLECTED BY DAY MIRROR (Average Value): 277.0 mV

| REFLECTOMETER VOLTAGE READINGS | | | |
|--------------------------------|-------------------------|--------|--|
| | DAY MIRROR NIGHT MIRROR | | |
| TEST NO. 1 | 277 mV | 200 mV | |
| TEST NO. 2 | 277 mV | 200 mV | |
| TEST NO. 3 | 277 mV | 199 mV | |
| TEST NO. 4 | 277 mV | 201 mV | |
| TEST NO. 5 | 277 mV | 200 mV | |

REFLECTANCE (Day) = Voltage (Refl)/Voltage (Cal) = <u>0.975</u> x 100 = <u>97.5</u> percent (Min. Required = 35%)

VOLTAGE READING FROM CALIBRATION (Average Value) = 284 mV

VOLTAGE READING FROM LIGHT REFLECTED BY NIGHT MIRROR (Average Value): 200 mV

REFLECTANCE (Night) = Voltage (Refl)/Voltage (Cal) = <u>0.704</u> x 100 = <u>70.4</u> percent (Min. Required = 4%)

NOTE: If meter reading directly in percent is used, record only percent

MIRROR DESCRIPTION: DRIVER SIDE OUTSIDE MIRROR.

VOLTAGE READING FROM CALIBRATION (Average Value):

288.0 mV

VOLTAGE READING FROM LIGHT REFLECTED BY DAY MIRROR (Average Value): 275.5 mV

| REFLECTOMETER VOLTAGE READINGS | | |
|--------------------------------|--------|--|
| TEST NO. 1 | 276 mV | |
| TEST NO. 2 | 276 mV | |
| TEST NO. 3 | 276 mV | |
| TEST NO. 4 | 275 mV | |
| TEST NO. 5 | 275 mV | |

(Min. Required = 35%)

NOTE: If meter reading directly in percent is used, record only percent

| TEST STATUS: PASSED — | Х | FAILED — | |
|-----------------------|---|----------|--|
|-----------------------|---|----------|--|

RECORDED BY: JONATHAN WILLIAMS DATE: 08/25/08 APPROVED BY: MICHAEL L. DUNLAP DATE: 08/25/08

MIRROR DESCRIPTION: PASSENGER SIDE OUTSIDE MIRROR.

VOLTAGE READING FROM CALIBRATION (Average Value):

342 mV

VOLTAGE READING FROM LIGHT REFLECTED BY DAY MIRROR (Average Value): ___

349 mV

| REFLECTOMETER VOLTAGE READINGS | | |
|--------------------------------|--------|--|
| TEST NO. 1 | 349 mV | |
| TEST NO. 2 | 349 mV | |
| TEST NO. 3 | 349 mV | |
| TEST NO. 4 | 349 mV | |
| TEST NO. 5 | 349 mV | |

REFLECTANCE (Day) = Voltage (Refl)/Voltage (Cal) = 0. 1.020 x 100 = 102.0 percent

REFERANCE MIRROR VALUE 93.4 X 102. (reflectance value) = 95.3% (Min. Required = 35%)

NOTE: If meter reading directly in percent is used, record only percent

| TEST STATUS: | PASSED — | N/A | FAILED — | |
|--------------|----------|-----|----------|--|
|--------------|----------|-----|----------|--|

DATA SHEET NO. 5
BREAKAWAY TEST - INSIDE REARVIEW MIRROR

| | Vehicle Information | | |
|------------|---------------------|--------------|-------------------|
| Year: | 2008 | Make | Chrysler |
| Model: | 300 | Body Style | 4-Door Sedan |
| NHTSA No: | C80307 | VIN | 2C3KA43R48H225623 |
| Test Date: | 08/25/08 | Temperature: | 83°F |

MOUNTING OF MIRROR (INSIDE) DESCRIPTION: **TAB GLUED TO WINDSHIELD. MIRROR BASE SLIPS OVER BASE AND HELD IN PLACE WITH SPRING CLIP.**

(Requirement: the mirror shall deflect, collapse or break away when it is subjected to a force of 400 N or less)

| TEST | LOAD DIRECTION | MAXIMUM | DISPLACEMENT | PASS | FAIL |
|------|---------------------|-----------|--------------|------|------|
| NO. | VERTICAL/HORIZONTAL | FORCE (N) | (MM) | | |
| 1 | 0-90 DEGREES | 232.5 | 11.4 | X | |
| 2 | +45/90 DEGREES | 180.1 | 37.4 | X | |
| 3 | -45/90 DEGREES | 283.0 | 16.6 | X | |
| 4 | -45/+45 DEGREES | 88.2 | 34.1 | X | |
| 5 | +45/+45 DEGREES | 137.2 | 19.3 | X | |
| 6 | +45/-45 DEGREES | 80.7 | 18.4 | X | |
| 7 | -45/-45 DEGREES | 113.2 | 19.9 | X | |

REMARKS:

DATA SHEET NO. 5... (Continued) BREAKAWAY TEST - INSIDE REARVIEW MIRROR FAILURE TYPE – DESCRIPTION:

| FAILURE TYPE – | DESCRIPTION: NO! | NE | | |
|----------------|------------------|----|----------|----------|
| TEST STATUS: | PASSED — | Х | FAILED — | |
| REMARKS: | | | | |
| RECORDED BY: | JONATHAN WILLIAI | MS | DATE: | 08/25/08 |
| APPROVED BY: | MICHAEL L. DUNLA | Р | DATE: | 08/25/08 |

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DATA SHEET NO. 6 UNIT MAGNIFICATION AND CONVEX MIRROR TESTS

| | Vehicle Information | | | |
|------------|---------------------|--------------|-------------------|--|
| Year: | 2008 | Make | Chrysler | |
| Model: | 300 | Body Style | 4-Door Sedan | |
| NHTSA No: | C80307 | VIN | 2C3KA43R48H225623 | |
| Test Date: | 08/13/08 | Temperature: | 70°F | |

DRIVER'S SIDE & INSIDE REARVIEW MIRRORS:

| DRIVER SIDE MIRROR | | |
|--------------------|---------------|--|
| TEST POSITION | DIAL READINGS | |
| 1 | 0 | |
| 2 | 0 | |
| 3 | 0 | |
| 4 | 0 | |
| 5 | 0 | |
| 6 | 0 | |
| 7 | 0 | |
| 8 | 0 | |
| 9 | 0 | |
| 10 | 0 | |

| INSIDE MIRROR | | | |
|---------------|---------------|--|--|
| TEST POSITION | DIAL READINGS | | |
| 1 | 0 | | |
| 2 | 0 | | |
| 3 | 0 | | |
| 4 | 0 | | |
| 5 | 0 | | |
| 6 | 0 | | |
| 7 | 0 | | |
| 8 | 0 | | |
| 9 | 0 | | |
| 10 | 0 | | |

All dial indicator readings for unit magnification mirrors must be zero.

DATA SHEET NO. 6... (Continued) UNIT MAGNIFICATION AND CONVEX MIRROR TESTS

PASSENGER SIDE REARVIEW MIRROR:

CONVERSION TABLE FROM SPHEROMETER DIAL READING TO RADIUS OF CURVATURE

| TEST POSITION | DIAL READINGS (inches) Passenger | RADIUS OF CURVATURE (mm) | DEVIATION BETWEEN THE AVERAGE RADIUS OF CURVATURE AND THE TEST POSITION RADIUS OF CURVATURE (mm) | PERCENT DEVIATION FROM THE AVERAGE RADIUS OF CURVATURE |
|------------------|---|--------------------------------|--|--|
| 1 | 0.0045 | 1587.5 | 39.4 | 2.5 |
| 2 | 0.0050 | 1428.5 | 119.6 | 7.7 |
| 3 | 0.0046 | 1553.6 | 5.5 | 0.4 |
| 4 | 0.0046 | 1553.6 | 5.5 | 0.4 |
| 5 | 0.0045 | 1587.5 | 39.4 | 2.5 |
| 6 | 0.0046 | 1553.6 | 5.5 | 0.4 |
| 7 | 0.0046 | 1553.6 | 5.5 | 0.4 |
| 8 | 0.0045 | 1587.5 | 39.4 | 2.5 |
| 9 | 0.0048 | 1488.4 | 59.7 | 3.9 |
| 10 | 0.0045 | 1587.5 | 39.4 | 2.5 |
| Average Ra | dius of Curvature | 1548.1 | Greatest Percent Deviation | 7.7 |

REMARKS:

DATA SHEET NO. 6... (Continued) UNIT MAGNIFICATION AND CONVEX MIRROR TESTS

PASSENGER'S SIDE REARVIEW MIRROR

| IF CONVEX, ARE THERE ANY DISCONTINUITIES IN THE SLOPE OF THE MIRROR SURFACE | YES_ | | NO <u>X</u> |
|--|------|-----|-------------|
| IF CONVEX, ARE THE WORDS, "OBJECTS IN THE MIRROR ARE CLOSER THAN THEY APPEAR" PRESENT | YES_ | Х | NO |
| IF CONVEX, MEASURE LETTER HEIGHT OF WORDS | | 5.0 | mm |
| IF CONVEX, LETTERS ARE NOT < 4.8 mm OR > 6.4 mm HIGH | YES_ | Х | NO |
| IF CONVEX, RADIUS OF CURVATURE NOT < 889 mm OR > 1651 mm | YES_ | Χ | NO |
| IF CONVEX, THE GREATEST PERCENT DEVIATION FROM AVERAGE RADIUS OF CURVATURE IS \pm 12.5 % | YES_ | X | NO |
| IF UNIT MAGNIFICATION, ALL DIAL READINGS ARE ZERO \pm 0. | YES_ | Х | NO |
| NOTE: PASSENGER MIRROR NOT REQUIRED | | | |

| Ī | TEST STATUS: | PASSED — | v | FAILED — | |
|---|--------------|----------|---|----------|--|

| RECORDED BY: | JONATHAN WILLIAMS | DATE: | 08/25/08 |
|--------------|-------------------|-------|----------|
| APPROVED BY: | MICHAEL L. DUNLAP | DATE: | 08/25/08 |

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DATA SHEET NO. 7 MIRROR REFLECTIVE SURFACE AREA TEST

| Vehicle Information | | | | | | |
|---------------------|--------------------------|--------------|-------------------|--|--|--|
| Year: | Year: 2008 Make Chrysler | | | | | |
| Model: | 300 | Body Style | 4-Door Sedan | | | |
| NHTSA No: | C80307 | VIN | 2C3KA43R48H225623 | | | |
| Test Date: | 08/19/08 | Temperature: | 70°F | | | |

MPVs, TRUCKS & BUSES (OTHER THAN SCHOOL BUSES)

MIRRORS LOCATED SO AS TO PROVIDE DRIVER A VIEW TO THE REAR:

DATA TABLE FOR SURFACE AREA

| MIRRORS | AREA (cm ²) | REQUIRI | REQUIREMENT RESULTS | | JLTS |
|------------------------------|-------------------------|------------------------------|---------------------|------|------|
| | | GVWR <u><</u> 4536 kg GV\ | | PASS | FAIL |
| Outside Driver's Side | 176 cm ² | 126 cm ² | 323cm ² | N/A | |
| Outside Passenger Side | 170 cm ² | 126 cm ² | 323 cm ² | N/A | |

| LEF | FT SIDE | YES X | _ NO | | | |
|--------------|---------------|-------|------|----------|----------|--|
| RIG | SHT SIDE | YES X | _ NO | | | |
| | | | | | | |
| TEST STATUS: | PASSED — | | N/A | FAILED — | | |
| REMARKS: | | | | | | |
| RECORDED BY: | JONATHAN WIL | LIAMS | | DATE: | 08/25/08 | |
| APPROVED BY: | MICHAEL L. DU | NLAP | | DATE: | 08/25/08 | |
| | | | | | | |

DATA SHEET NO. 8 TEST SUMMARY-FMVSS 111-REARVIEW MIRRORS

| Vehicle Information | | | | | |
|--------------------------|----------|--------------|-------------------|--|--|
| Year: 2008 Make Chrysler | | | | | |
| Model: | 300 | Body Style | 4-Door Sedan | | |
| NHTSA No: | C80307 | VIN | 2C3KA43R48H225623 | | |
| Test Date: | 08/25/08 | Temperature: | N/A | | |

PASSENGER VEHICLE TESTING:

| OUTSIDE DRIVER SIDE MIRROR | PASS | FAIL | COMMENTS |
|---|------|------|----------|
| STABLE SUPPORT | Х | | |
| DOES NOT PROTRUDE BEYOND VEHICLE BODY | X | | |
| NOT OBSCURED BY UNWIPED PORTION OF WINDSHIELD | Х | | |
| ADJUSTABLE BY TILTING | X | | |
| ADJUSTABLE FROM DRIVER SEAT | Х | | |
| FREE OF SHARP EDGES | Х | | |
| FIELD-OF-VIEW | Х | | |
| REFLECTANCE | Х | | |
| UNIT MAGNIFICATION | Х | | |

| INSIDE REARVIEW MIRROR | PASS | FAIL | COMMENTS |
|------------------------|------|------|----------|
| STABLE SUPPORT | Х | | |
| ADJUSTABLE BY TILTING | Х | | |
| FIELD-OF-VIEW | Х | | |
| REFLECTANCE | Х | | |
| BREAK AWAY | Х | | |
| UNIT MAGNIFICATION | Х | | |

| OUTSIDE PASSENGER MIRROR * | PASS | FAIL | COMMENTS |
|----------------------------|------|------|----------|
| STABLE SUPPORT | Х | | |
| ADJUSTABLE BY TILTING | Х | | |
| FREE OF SHARP EDGES | Х | | |
| UNIT OR CONVEX | | | Convex |
| LABELING | Х | | |
| REFLECTANCE | Х | | |

^{*} MIRROR NOT REQUIRED

APPENDIX A PHOTOGRAPHS



2008 CHRYSLER 300 NHTSA NO. C80307 FMVSS NO. 111

FIGURE 1: LEFT FRONT ¾ VIEW



2008 CHRYSLER 300 NHTSA NO. C80307 FMVSS NO. 111

FIGURE 2: LEFT SIDE VIEW



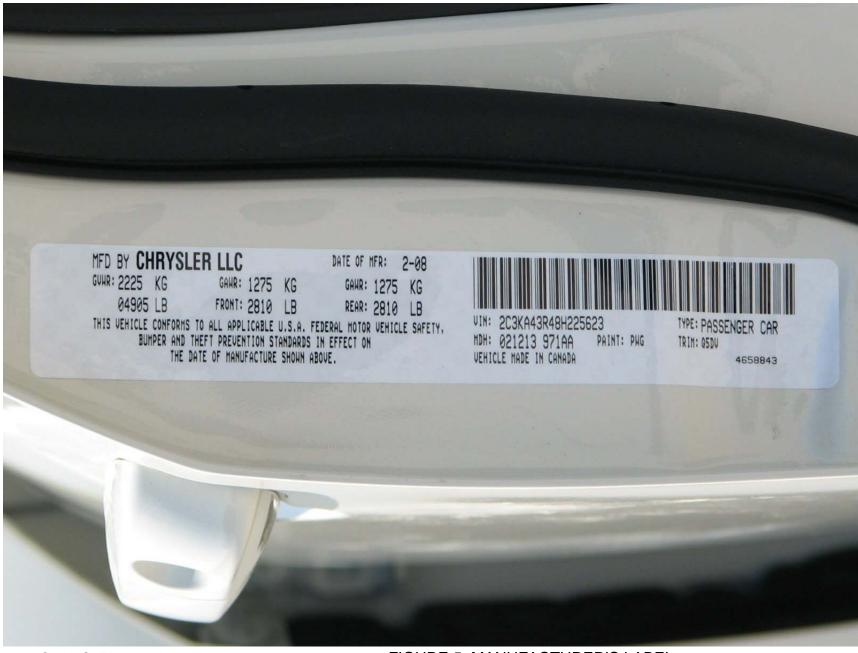
2008 CHRYSLER 300 NHTSA NO. C80307 FMVSS NO. 111

FIGURE 3: RIGHT REAR ¾ VIEW



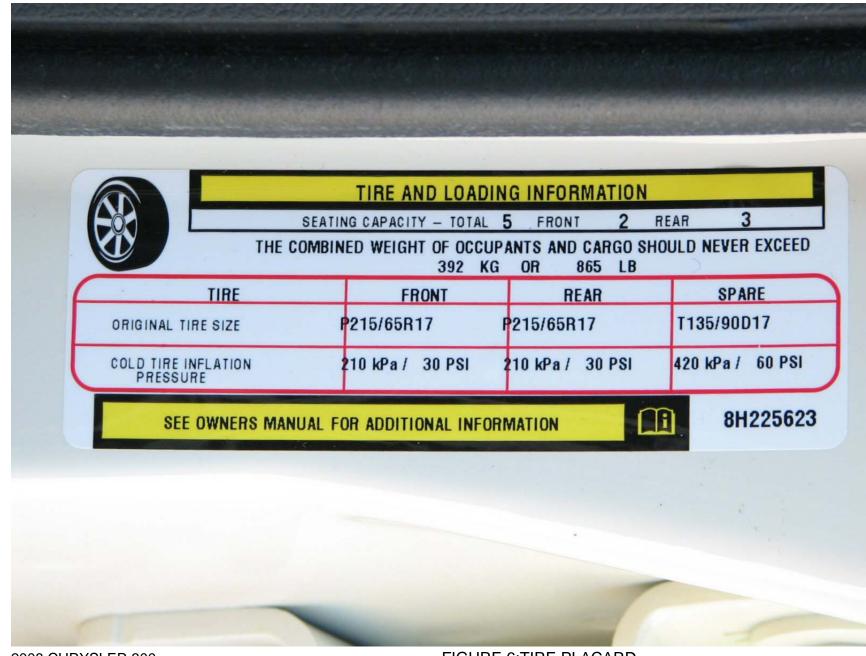
2008 CHRYSLER 300 NHTSA NO. C80307 FMVSS NO. 111

FIGURE 4: RIGHT SIDE VIEW



2008 CHRYSLER 300 NHTSA NO. C80307 FMVSS NO. 111

FIGURE 5: MANUFACTURER'S LABEL



2008 CHRYSLER 300 NHTSA NO. C80307 FMVSS NO. 111

FIGURE 6:TIRE PLACARD



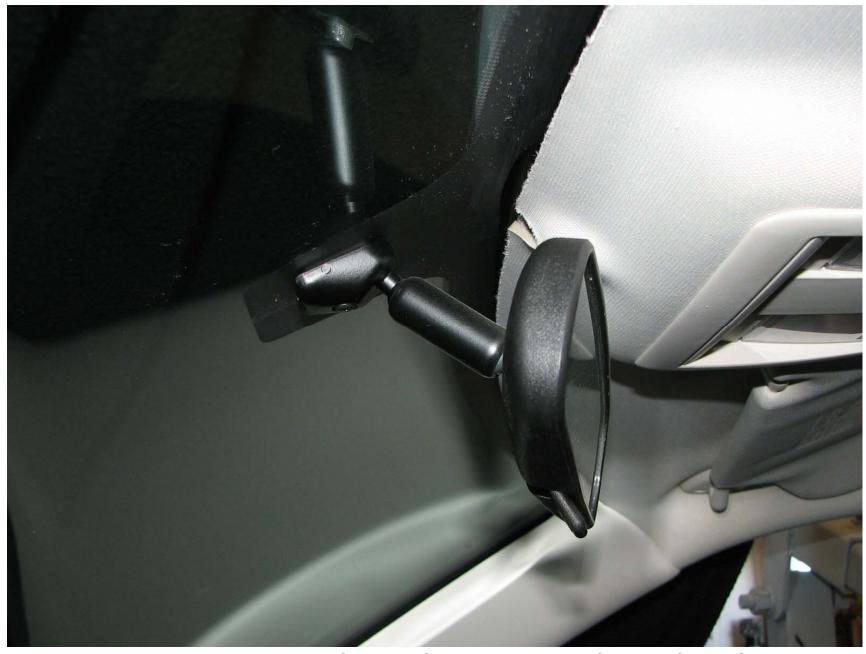
2008 CHRYSLER 300 NHTSA NO. C80307 FMVSS NO. 111

FIGURE 7: DRIVER SIDE REARVIEW MIRROR AND MOUNTING



2008 CHRYSLER 300 NHTSA NO. C80307 FMVSS NO. 111

FIGURE 8: PASSENGER SIDE REARVIEW MIRROR AND MOUNTING



2008 CHRYSLER 300 NHTSA NO. C80307 FMVSS NO. 111

FIGURE 9: INSIDE REARVIEW MIRROR AND MOUNTING



2008 CHRYSLER 300 NHTSA NO. C80307 FMVSS NO. 111

FIGURE 10:TEST SET-UP



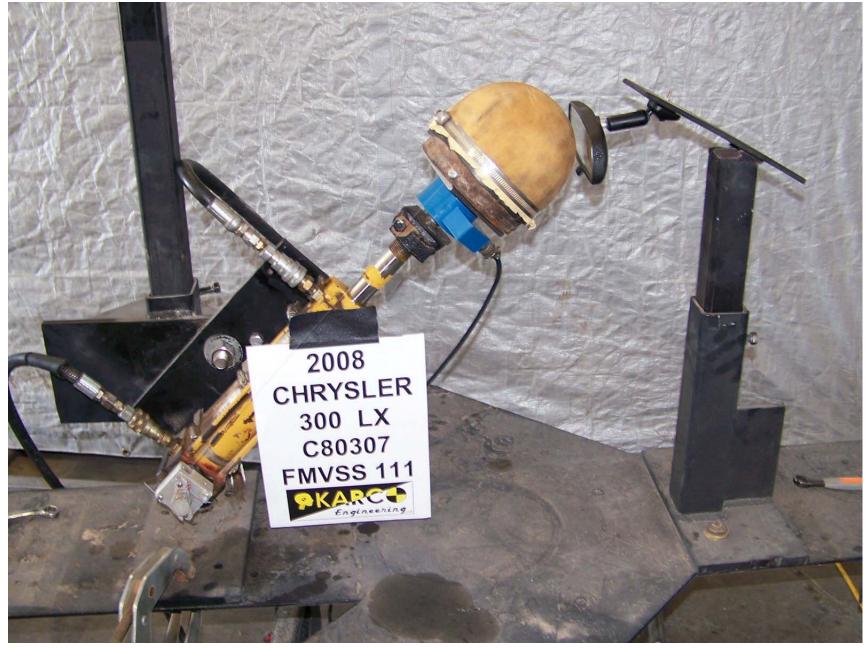
2008 CHRYSLER 300 NHTSA NO. C80307 FMVSS NO. 111

FIGURE 11:CAMERA SET-UP FOR PHOTOGRAPHING REFERENCE BOARD



2008 CHRYSLER 300 NHTSA NO. C80307 FMVSS NO. 111

FIGURE 12: OVERALL SET-UP AND INSTRUMENTATION FOR MIRROR BREAK- AWAY TEST



2008 CHRYSLER 300 NHTSA NO. C80307 FMVSS NO. 111

FIGURE 13:CLOSE-UP OF MIRROR BREAK- AWAY TEST



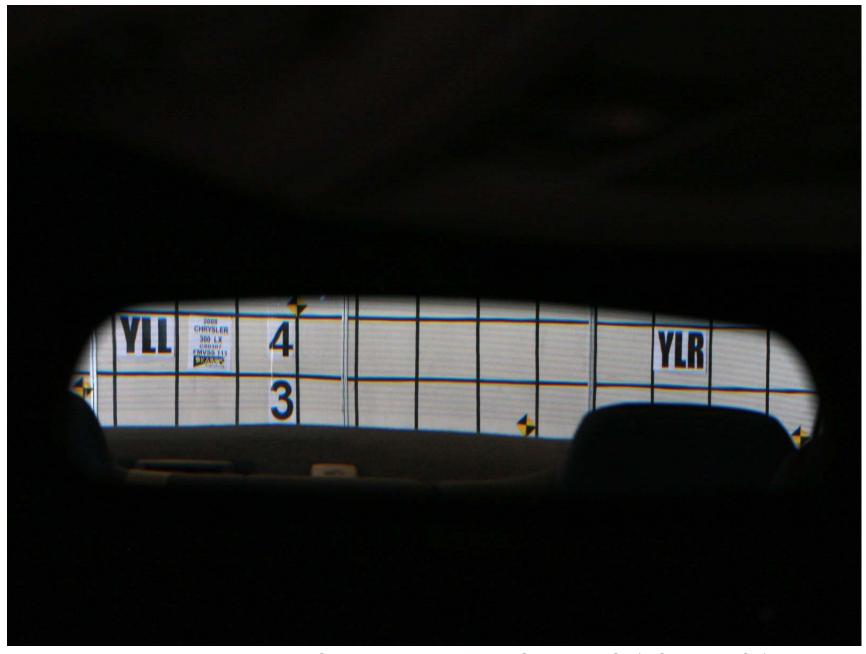
2008 CHRYSLER 300 NHTSA NO. C80307 FMVSS NO. 111

FIGURE 14:REFLECTION TEST SET-UP



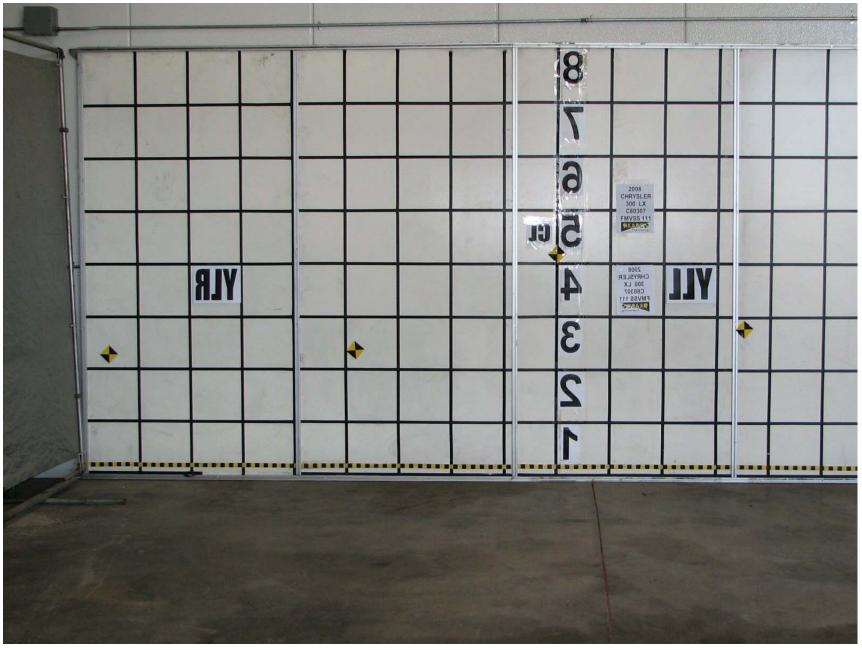
2008 CHRYSLER 300 NHTSA NO. C80307 FMVSS NO. 111

FIGURE 15: MIRROR SET-UP FOR AREA MEASUREMENT



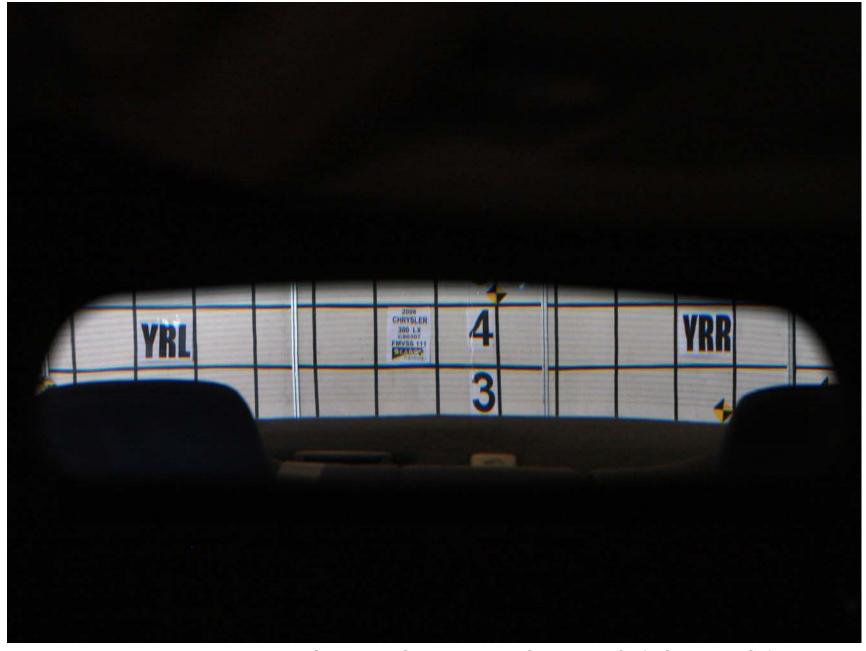
2008 CHRYSLER 300 NHTSA NO. C80307 FMVSS NO. 111

FIGURE 16:LEFT EYE FIELD OF VIEW TEST (INSIDE MIRROR)



2008 CHRYSLER 300 NHTSA NO. C80307 FMVSS NO. 111

FIGURE 17:REFERENCE BOARD FOR INSIDE MIRROR, LEFT EYE



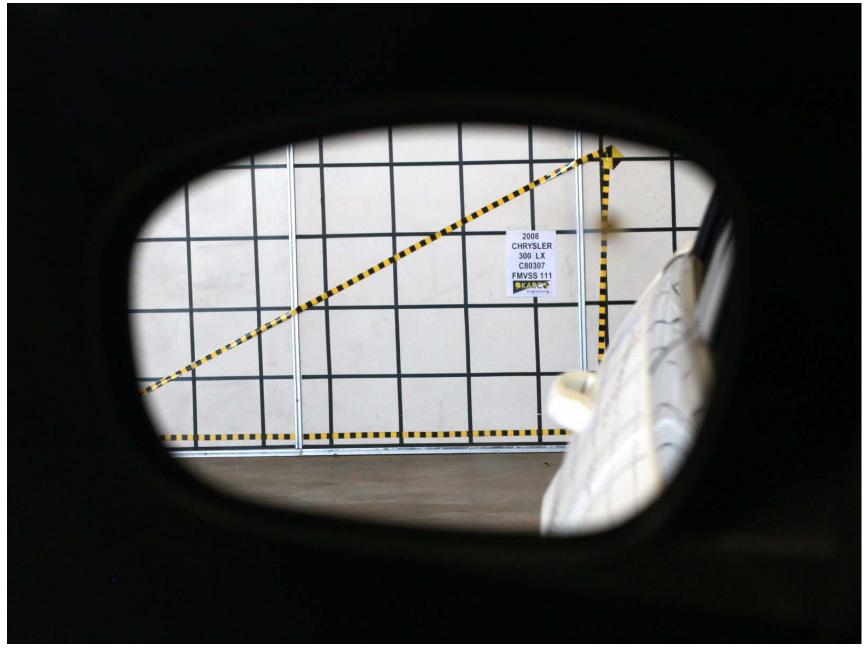
2008 CHRYSLER 300 NHTSA NO. C80307 FMVSS NO. 111

FIGURE 18:RIGHT EYE FIELD OF VIEW TEST (INSIDE MIRROR)



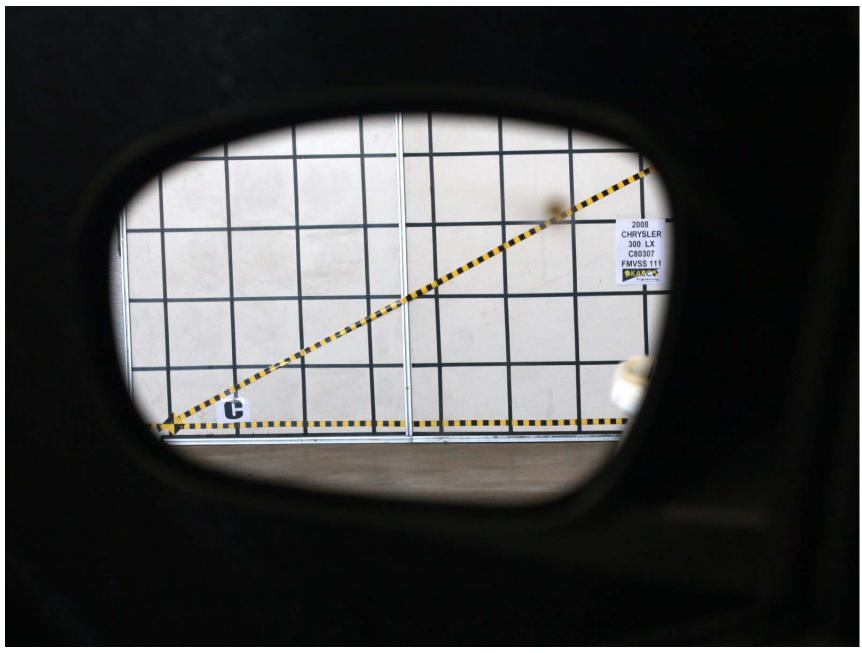
2008 CHRYSLER 300 NHTSA NO. C80307 FMVSS NO. 111

FIGURE 19:REFERENCE BOARD FOR INSIDE MIRROR, RIGHT EYE



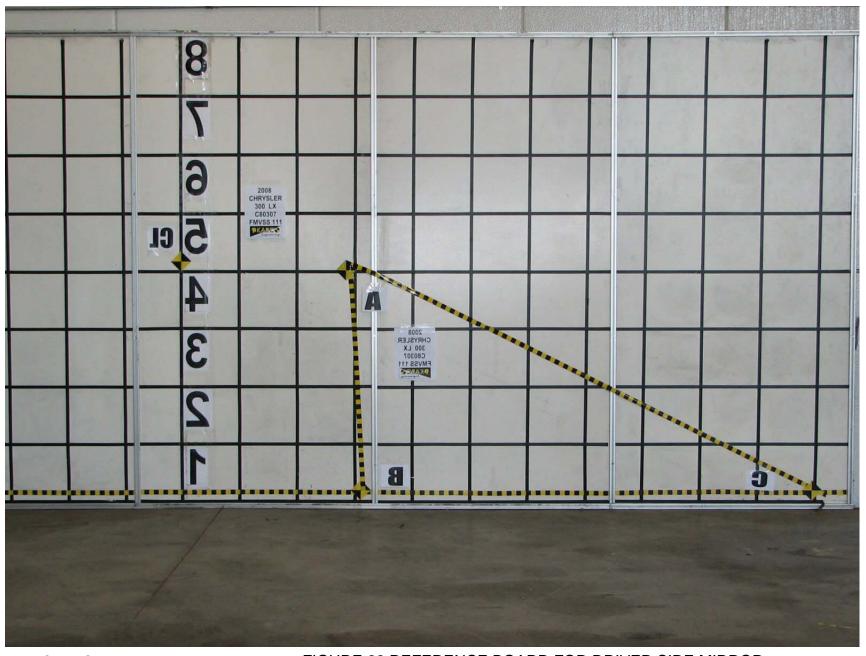
2008 CHRYSLER 300 NHTSA NO. C80307 FMVSS NO. 111

FIGURE 20:LEFT EYE FIELD OF VIEW TEST (DRIVER SIDE MIRROR)



2008 CHRYSLER 300 NHTSA NO. C80307 FMVSS NO. 111

FIGURE 21:RIGHT EYE FIELD OF VIEW TEST (DRIVER SIDE MIRROR)

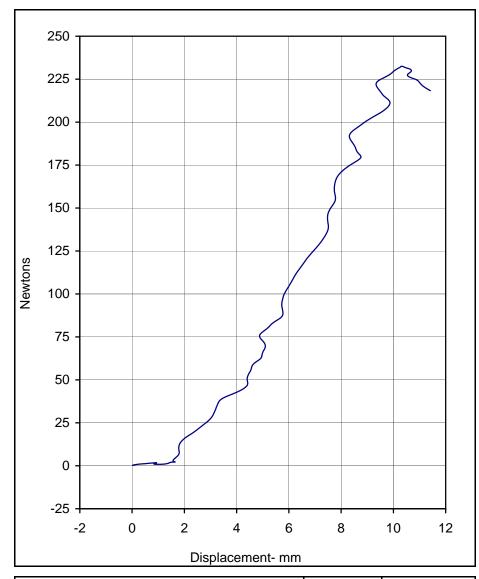


2008 CHRYSLER 300 NHTSA NO. C80307 FMVSS NO. 111

FIGURE 22:REFERENCE BOARD FOR DRIVER SIDE MIRROR

APPENDIX B

DATA PLOTS



| | 12 - | |
|----|-----------|----------------------|
| | 10 - | |
| | 8 - | |
| | 6 - | |
| MM | 4 - | |
| | 2 - | |
| | 0 - | |
| | -2 - - | 2 0 2 4 6 8 10 12 14 |
| | | Time - Seconds |

| Curve Description | CURNO | Type |
|------------------------|-------|------|
| Force vs. Displacement | 001 | FIL |

| Units | Peak Force | Displacement | Filter (Hz) |
|---------|------------|--------------|-------------|
| Newtons | 232.5 | 10.3 | 1 |

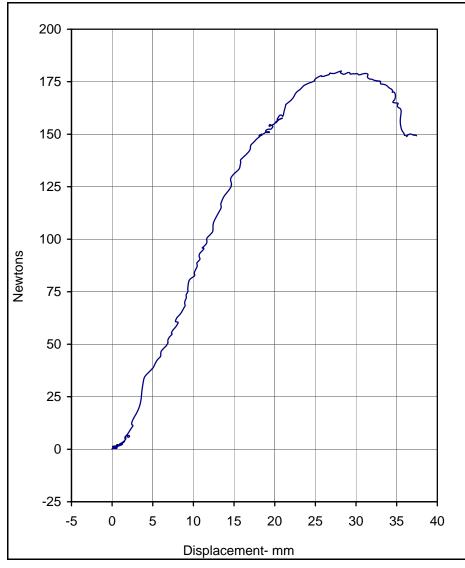
| Curve Description | CURNO | Type |
|-----------------------|-------|------|
| Displacement vs. Time | 002 | FIL |

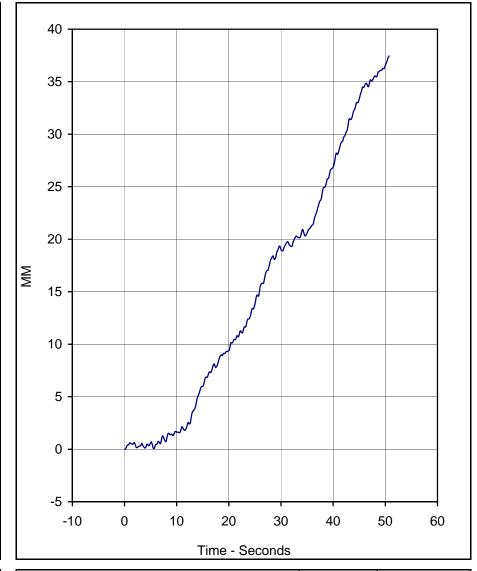
| Units | Max | Time | Displ. Rate (mm/min.) | Filter (Hz) |
|-------|------|------|-----------------------|-------------|
| MM | 11.4 | 13.6 | 52.4 | 1 |

Test Program: 2008 FMVSS 111 Rearview Mirrors Test No.: 1
Test Vehicle: 2008 Chrysler 300 LX No.: C80307

Load Direction: 0 / 90
Test Date: 8/25/08







| Curve Description | CURNO | Type |
|------------------------|-------|------|
| Force vs. Displacement | 001 | FIL |

| Units | Peak Force | Displacement | Filter (Hz) |
|---------|------------|--------------|-------------|
| Newtons | 180.1 | 28.2 | 1 |

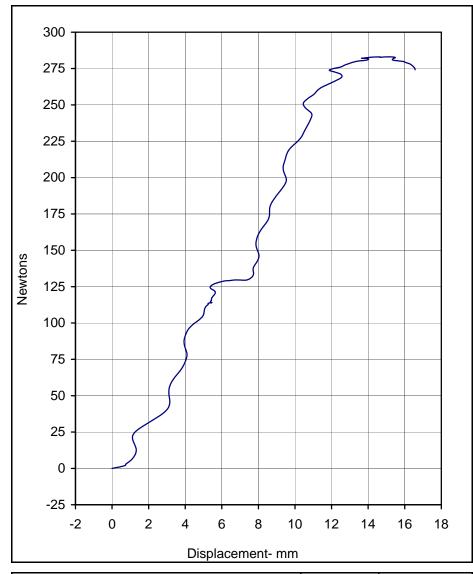
| Curve Description | CURNO | Type |
|-----------------------|-------|------|
| Displacement vs. Time | 002 | FIL |

| Units | Max | Time | Displ. Rate (mm/min.) | Filter (Hz) |
|-------|------|------|-----------------------|-------------|
| MM | 37.4 | 50.7 | 44.2 | 1 |

Test Program: 2008 FMVSS 111 Rearview Mirrors Test No.: 2
Test Vehicle: 2008 Chrysler 300 LX No.: C80307

Load Direction: +45 / 90
Test Date: 8/25/08





| | 20 - | |
|---|------|--|
| | 18 - | |
| | 16 - | |
| | 14 - | |
| | 12 - | |
| | 10 - | |
| M | 8 - | |
| | 6 - | |
| | 4 - | |
| | 2 - | |
| | 0 - | |
| | -2 - | |
| | - | 2 0 2 4 6 8 10 12 14 16 18 Time - Seconds |

| Curve Description | CURNO | Type |
|------------------------|-------|------|
| Force vs. Displacement | 001 | FIL |

| Units | Peak Force | Displacement | Filter (Hz) |
|---------|------------|--------------|-------------|
| Newtons | 283.0 | 15.2 | 1 |

| Curve Description | CURNO | Type |
|-----------------------|-------|------|
| Displacement vs. Time | 002 | FIL |

| Units | Max | Time | Displ. Rate (mm/min.) | Filter (Hz) |
|-------|------|------|-----------------------|-------------|
| MM | 16.6 | 17.7 | 57.1 | 1 |

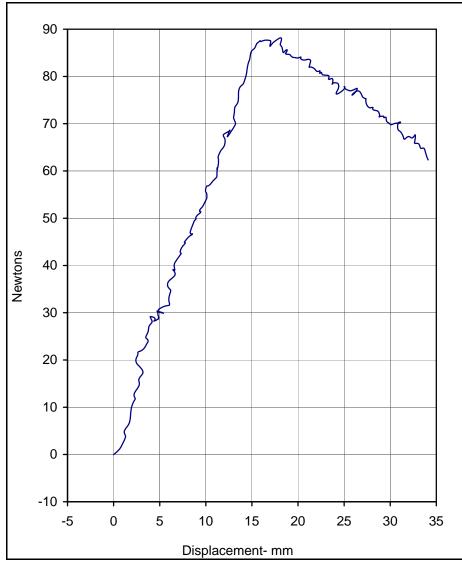
Test Program: 2008 FMVSS 111 Rearview Mirrors Test No.: 3

Test Vehicle: 2008 Chrysler 300 LX No.: C80307

Load Direction: -45 / 90

Test Date: 8/25/08





| | 40 - | | | | | | | | | 7 |
|---|------------|----|--------------------|------|---------|-------------------|----------|------------|------|---------|
| | 35 - | | | | | | | , | | |
| | 30 - | | | | | | | / ′ | | _ |
| | 25 - | | | | | | کر کم | | | |
| | 20 - | | | | | <i>ا</i> م الر | <i>,</i> | | | |
| M | 15 - | | | | ./ | / | | | | |
| | 10 - | | | سر . | | | | | | _ |
| | 5 - | | ~~~ | M | | | | | | |
| | 0 - | | provide the second | | | | | | | |
| | -5 - -1 | 10 | 0 | 10 | 20 | 3 | 0 4 | 0 5 | 60 (| - 60 |
| | | | | | ime - S | | | | | |

| Curve Description | CURNO | Type |
|------------------------|-------|------|
| Force vs. Displacement | 001 | FIL |

| Units | Peak Force | Displacement | Filter (Hz) |
|---------|------------|--------------|-------------|
| Newtons | 88.2 | 18.1 | 1 |

| Curve Description | CURNO | Type |
|-----------------------|-------|------|
| Displacement vs. Time | 002 | FIL |

| Units | Max | Time | Displ. Rate (mm/min.) | Filter (Hz) |
|-------|------|------|-----------------------|-------------|
| MM | 34.1 | 44.3 | 46.2 | 1 |

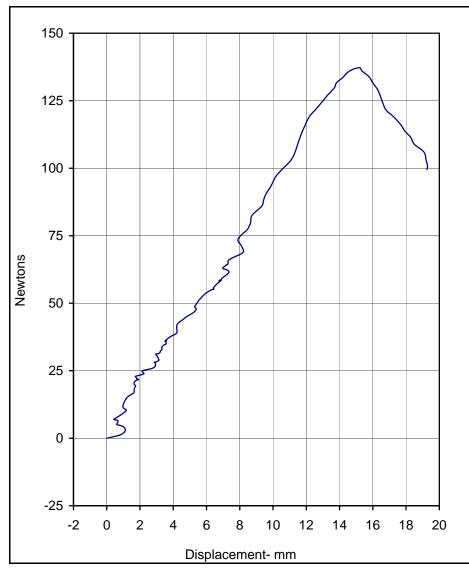
Test Program: 2008 FMVSS 111 Rearview Mirrors Test No.: 4

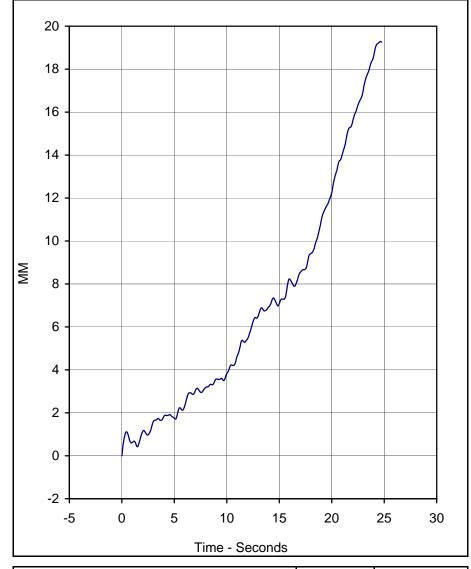
Test Vehicle: 2008 Chrysler 300 LX No.: C80307

Load Direction: -45 / +45

Test Date: 8/25/08







| Curve Description | CURNO | Туре |
|------------------------|-------|------|
| Force vs. Displacement | 001 | FIL |

| Units | Peak Force | Displacement | Filter (Hz) |
|---------|------------|--------------|-------------|
| Newtons | 137.2 | 15.2 | 1 |

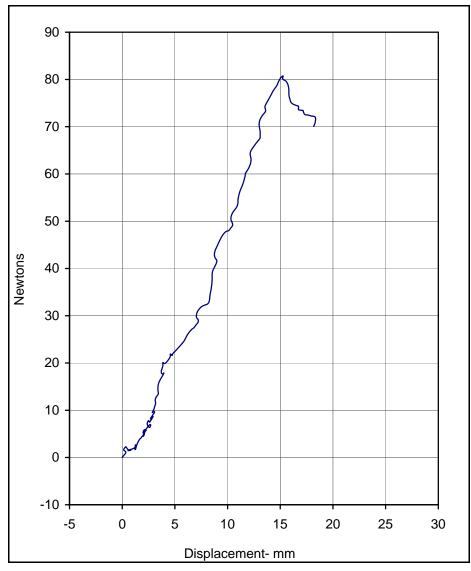
| Curve Description | CURNO | Type |
|-----------------------|-------|------|
| Displacement vs. Time | 002 | FIL |

| Units | Max | Time | Displ. Rate (mm/min.) | Filter (Hz) |
|-------|------|------|-----------------------|-------------|
| MM | 19.3 | 24.7 | 45.9 | 1 |

Test Program: 2008 FMVSS 111 Rearview Mirrors Test No.: 5
Test Vehicle: 2008 Chrysler 300 LX No.: C80307

Load Direction: +45 / +45Test Date: 8/25/08





| | 20 - | |
|---|------|---------------------------------------|
| | 18 - | |
| | 16 - | |
| | 14 - | |
| | 12 - | |
| | 10 - | |
| M | 8 - | |
| | 6 - | |
| | 4 - | |
| | 2 - | |
| | 0 - | |
| | -2 - | |
| | - | -5 0 5 10 15 20 25 30 Time - Seconds |
| | | Time Occorido |

| Curve Description | CURNO | Type |
|------------------------|-------|------|
| Force vs. Displacement | 001 | FIL |

| Units Peak Force | | Displacement | Filter (Hz) |
|------------------|--|--------------|-------------|
| Newtons 80.7 | | 15.3 | 1 |

| Curve Description | CURNO | Type |
|-----------------------|-------|------|
| Displacement vs. Time | 002 | FIL |

| Units | Max | Time | Displ. Rate (mm/min.) | Filter (Hz) |
|-------|------|------|-----------------------|-------------|
| MM | 18.4 | 28.7 | 38.1 | 1 |

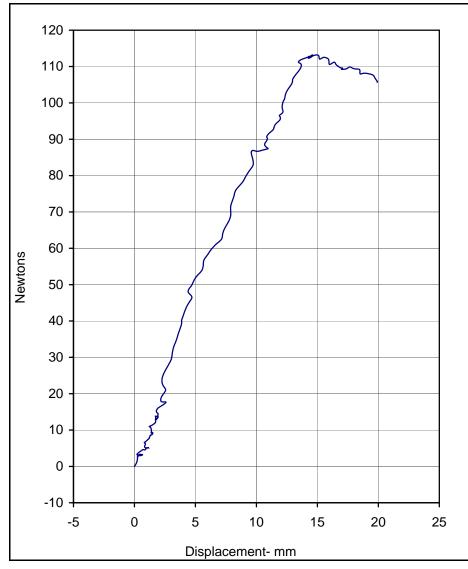
Test Program: 2008 FMVSS 111 Rearview Mirrors Test No.: 6

Test Vehicle: 2008 Chrysler 300 LX No.: C80307

Load Direction: +45 / -45

Test Date: 8/25/08





| | 22 - | | | | | | | | | |
|----|------|-----|-----|------|----------------|--------|------------------|---------------------------------------|------|---|
| | 20 - | | | | | | | | | |
| | 18 - | | | | | | | | | |
| | 16 - | | | | | | | <i></i> | | |
| | 14 - | | | | | | $\sqrt{\lambda}$ | | | |
| | 12 - | | | | | , | کر ا | | | |
| MM | 10 - | | | | | | | | | |
| | 8 - | | | | | | | | | |
| | 6 - | | | | | | | | | |
| | 4 - | | | | \mathcal{N} | | | | | |
| | 2 - | | | ~~^ | \checkmark | | | | | |
| | 0 - | | | | | | | | | |
| | -2 - | | | _ | - | | - | · · · · · · · · · · · · · · · · · · · | | |
| | - | 5 (|) 5 | | 0 1 me - Se | | 0 2 | 5 3 | 0 35 | 5 |
| | | | | - 11 | 1116 - 36 | corius | | | | |

| Curve Description | CURNO | Type |
|------------------------|-------|------|
| Force vs. Displacement | 001 | FIL |

| Units | Peak Force | Displacement | Filter (Hz) |
|---------|------------|--------------|-------------|
| Newtons | 113.2 | 14.9 | 1 |

| Curve Description | CURNO | Type |
|-----------------------|-------|------|
| Displacement vs. Time | 002 | FIL |

| Units | Max | Time | Displ. Rate (mm/min.) | Filter (Hz) |
|-------|------|------|-----------------------|-------------|
| MM | 19.9 | 29.6 | 38.7 | 1 |

Test Program: 2008 FMVSS 111 Rearview Mirrors Test No.: 7
Test Vehicle: 2008 Chrysler 300 LX No.: C80307

Load Direction: -45 / -45

Test Date: 8/25/08



APPENDIX C TEST EQUIPMENT LIST AND CALIBRATION INFORMATION

-7 C

111-KAR-08-001

2008 FMVSS 111 Rearview Mirrors Test Equipment List 8/25/08 2008 Chrysler 300 LX

| Description | Manufacturer | Model No. | Serial No. | Limit | Accuracy | Cal. Date | Due Cal. |
|--------------------|--------------|-------------|------------|------------------|----------|-----------|----------|
| Hydraulic Pump | Lincoln | T-3825-C | 2460952 | 8 gpm @ 2700 psi | N/A | N/A | N/A |
| Computer | Panasonic | CF-71 | 8IMAA01852 | N/A | N/A | N/A | N/A |
| TDAS | DTS | TDAS | DM0103 | N/A | SAE J211 | 11/28/07 | 11/27/08 |
| Load Cell | Lebow | 3167 | 1573 | 667 N | ± 1.0% | 6/20/08 | 6/20/09 |
| Displacement Xdcr. | Celesco | PTX101-0030 | J0654652 | 76 CM | ± 1.0% | 7/1/08 | 7/1/09 |



APPENDIX D EYELIPSE LOCATIONS SUPPLIED BY MANUFACTURER

VEHICLE INFORMATION / TEST SPECIFICATIONS

FMVSS No. 111

Vehicle Make/Model/Year: Chrysler 300, 4-Dr Sedan

Driver's Eye Reference Points:

Coordinate System:

X = Longitudinal Dimension

Y = Lateral Dimension

Z = Vertical Dimension

Positive Values are as follows:

X = Forward of Reference Point

Y = Outboard of Reference Point (to driver's side)

Z = Above Reference Point

Provide Reference/Body Fiducial Point that dimensions below are measured from. Point must be easily accessible and usable by test laboratory personnel, i.e. seat track mounting bolt, seat belt anchorage bolt, door latch at B pillar striker. (Provide sketch of reference point if necessary.)

Body Reference Point: X = 1980, Y = 828, Z = 680

Body side aperture four-way gage hole near front door lower hinge face.

| COORDINATES | LEFT SIDE MIRROR | | INSIDE I | MIRROR | RIGHT SIDE MIRROR | |
|-------------------|--------------------------------|--------------------|--|--------------------------------------|--|-----------------------------------|
| | LE1 (left eye) | RE1 (right eye) | LE2 RE2 | | LE3 | RE3 |
| х | 985.8 | 985.8 | 981.9 | 981.9 | 999.9 | 999.9 |
| Y | 380.3 | 446.0 | 442.7 | 507.7 | 421.8 | 486.8 |
| z | 792.6 | 792.6 | 791.5 | 791.5 | 793.7 | 793.7 |
| Mirror Mfr., | Schefenacker Vision Systems | | Donnelley Corporation | | Schefenacker Vision Systems | |
| Model Part No. | | | 55156172AA (300, Touring and Charger) Gentex Corpo 04806227AD (300, Touring 300C, and Ch 068020439AA ((300 Touring 300C, and Ch 04806352AC, 068020441AA (300C) | & Limited, arger) & Limited, arger) | 4805980AH (300) 1CJ98TRMAE (300, 300 Lim 300Touring) 04805882AJ a 04806336AD (300C) 04806156AD, and 1BY42TR (Charger) 1AQ53TRMAC (300 SRT) | ited, and 04806158AD MAA |