

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: io LED

Report Number: P397360

Luminaire Tested: **8VRVT2-LD5-9-DR100-W-UNV-LR63-CD1-WL-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P397360
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1710-355-20)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: 8VRVT2-LD5-9-DR100-W-UNV-LR63-CD1-WL-U
Description:
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1389.8 lumens
Efficiency: N/A
Efficacy: 8.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.58 / 1.57
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 8.33' x H: 0.17')
CIE Type: Semi-Direct

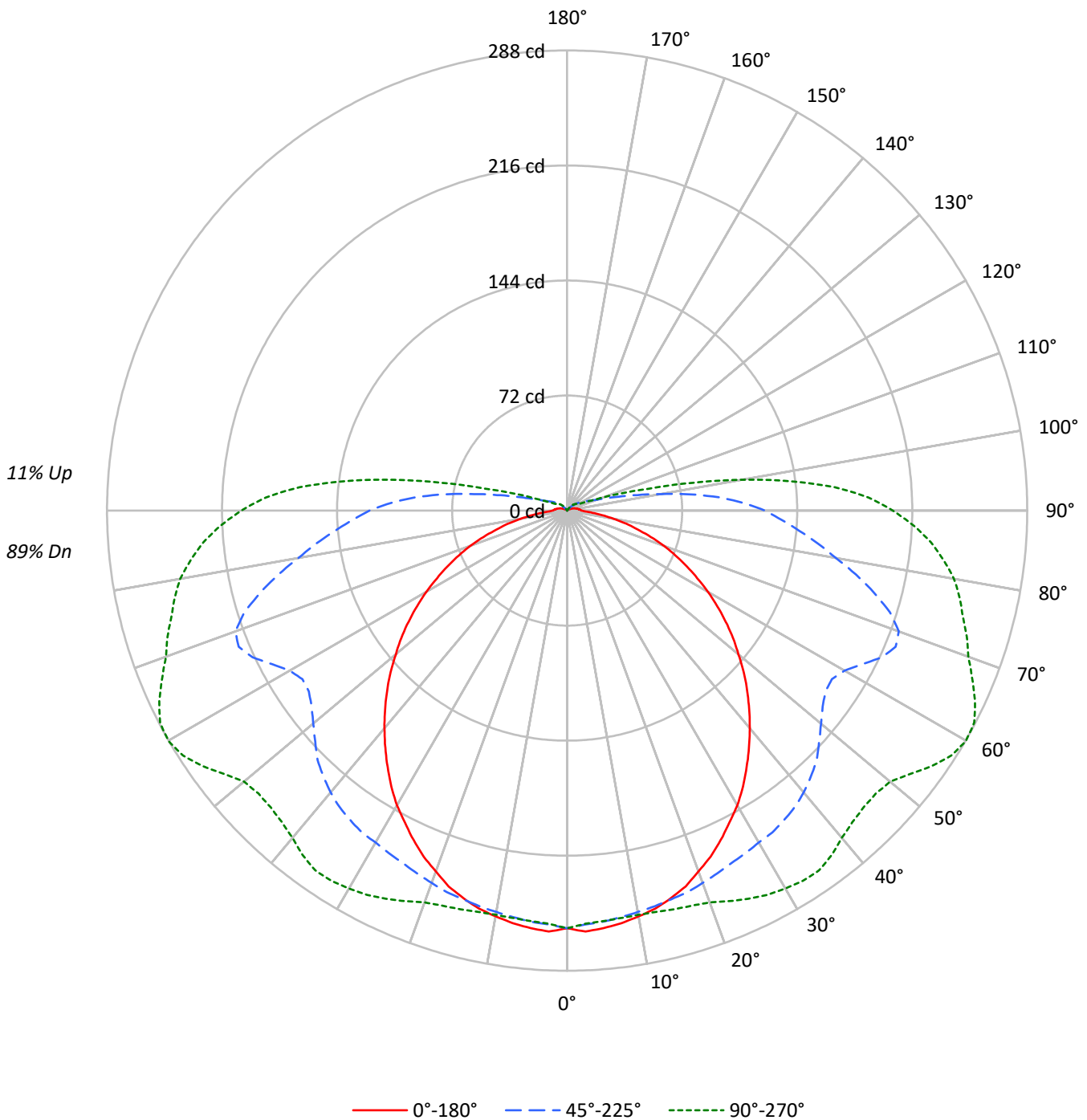
Input Watts (W): 170.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P397360

CATALOG NUMBER: 8VRVT2-LD5-9-DR100-W-UNV-LR63-CD1-WL-U

Luminous Intensity Polar Plot





TEST NUMBER: P397360

CATALOG NUMBER: 8VRVT2-LD5-9-DR100-W-UNV-LR63-CD1-WL-U

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

| | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|----|----|----|----|
| RF | 20 | | | | 20 | | | | 20 | | | | 20 | | | | 20 | |
| RC | 80 | | | | 70 | | | | 50 | | | | 30 | | | | 10 | 0 |
| RW | 70 | 50 | 30 | 10 | 70 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 0 |
| RCR | | | | | | | | | | | | | | | | | | |
| 0 | 116 | 116 | 116 | 116 | 112 | 112 | 112 | 112 | 105 | 105 | 105 | 98 | 98 | 98 | 92 | 92 | 92 | 89 |
| 1 | 101 | 94 | 88 | 82 | 97 | 91 | 85 | 80 | 84 | 80 | 75 | 78 | 74 | 71 | 73 | 70 | 67 | 64 |
| 2 | 90 | 79 | 70 | 63 | 86 | 76 | 68 | 61 | 71 | 64 | 58 | 66 | 60 | 55 | 61 | 56 | 52 | 49 |
| 3 | 81 | 68 | 58 | 50 | 77 | 65 | 56 | 49 | 61 | 53 | 47 | 56 | 50 | 44 | 52 | 47 | 42 | 39 |
| 4 | 73 | 59 | 49 | 41 | 70 | 57 | 48 | 40 | 53 | 45 | 38 | 49 | 42 | 37 | 46 | 40 | 35 | 32 |
| 5 | 67 | 52 | 42 | 35 | 64 | 50 | 41 | 34 | 47 | 39 | 32 | 44 | 37 | 31 | 41 | 35 | 30 | 27 |
| 6 | 62 | 47 | 37 | 30 | 59 | 45 | 36 | 29 | 42 | 34 | 28 | 39 | 32 | 27 | 37 | 30 | 26 | 23 |
| 7 | 57 | 42 | 32 | 26 | 54 | 41 | 32 | 25 | 38 | 30 | 24 | 36 | 29 | 23 | 33 | 27 | 22 | 20 |
| 8 | 53 | 38 | 29 | 23 | 51 | 37 | 28 | 22 | 35 | 27 | 21 | 32 | 26 | 21 | 30 | 24 | 20 | 18 |
| 9 | 49 | 35 | 26 | 20 | 47 | 34 | 25 | 20 | 32 | 24 | 19 | 30 | 23 | 18 | 28 | 22 | 18 | 16 |
| 10 | 46 | 32 | 24 | 18 | 44 | 31 | 23 | 18 | 29 | 22 | 17 | 28 | 21 | 17 | 26 | 20 | 16 | 14 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-----|------|------|
| 0° | 675 | 675 | 675 |
| 5° | 679 | 655 | 650 |
| 10° | 674 | 641 | 636 |
| 15° | 668 | 631 | 634 |
| 20° | 656 | 625 | 640 |
| 25° | 642 | 621 | 661 |
| 30° | 628 | 625 | 683 |
| 35° | 609 | 635 | 703 |
| 40° | 590 | 642 | 705 |
| 45° | 571 | 646 | 719 |
| 50° | 550 | 642 | 759 |
| 55° | 530 | 655 | 850 |
| 60° | 509 | 723 | 944 |
| 65° | 485 | 864 | 1004 |
| 70° | 462 | 989 | 1053 |
| 75° | 424 | 1027 | 1140 |
| 80° | 390 | 1051 | 1266 |
| 85° | 384 | 1122 | 1409 |



TEST NUMBER: P397360

CATALOG NUMBER: 8VRVT2-LD5-9-DR100-W-UNV-LR63-CD1-WL-U

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 24.7 | 1.8 |
| 10°-20° | 71.8 | 5.2 |
| 20°-30° | 113.8 | 8.2 |
| 30°-40° | 147.6 | 10.6 |
| 40°-50° | 166.5 | 12.0 |
| 50°-60° | 180.3 | 13.0 |
| 60°-70° | 194.0 | 14.0 |
| 70°-80° | 184.7 | 13.3 |
| 80°-90° | 151.4 | 10.9 |
| 90°-100° | 100.2 | 7.2 |
| 100°-110° | 36.1 | 2.6 |
| 110°-120° | 10.9 | 0.8 |
| 120°-130° | 5.3 | 0.4 |
| 130°-140° | 2.2 | 0.2 |
| 140°-150° | 0.4 | 0.0 |
| 150°-160° | 0.0 | 0.0 |
| 160°-170° | 0.0 | 0.0 |
| 170°-180° | 0.0 | 0.0 |
| 0°-30° | 210.3 | 15.1 |
| 0°-40° | 357.8 | 25.7 |
| 0°-60° | 704.6 | 50.7 |
| 0°-90° | 1234.6 | 88.8 |
| 90°-120° | 147.2 | 10.6 |
| 90°-150° | 155.1 | 11.2 |
| 90°-180° | 155.0 | 11.2 |
| 0°-180° | 1389.8 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|-----|-------|-----|-------|-----|------|
| 0° | 261 | 261 | 261 | 261 | 261 | |
| 5° | 262 | 261 | 258 | 259 | 258 | 25 |
| 15° | 251 | 251 | 252 | 257 | 258 | 71 |
| 25° | 228 | 231 | 243 | 263 | 268 | 105 |
| 35° | 196 | 207 | 237 | 265 | 275 | 123 |
| 45° | 159 | 178 | 221 | 250 | 262 | 123 |
| 55° | 121 | 147 | 197 | 257 | 279 | 108 |
| 65° | 83 | 116 | 217 | 274 | 282 | 82 |
| 75° | 46 | 110 | 199 | 240 | 256 | 49 |
| 85° | 16 | 80 | 146 | 207 | 229 | 16 |
| 90° | 9 | 60 | 124 | 183 | 204 | 5 |
| 95° | 8 | 43 | 95 | 148 | 168 | 6 |
| 105° | 5 | 16 | 33 | 46 | 53 | 5 |
| 115° | 3 | 7 | 14 | 13 | 12 | 3 |
| 125° | 1 | 2 | 8 | 8 | 8 | 1 |
| 135° | 0 | 0 | 3 | 5 | 5 | 0 |
| 145° | 0 | 0 | 0 | 1 | 1 | 0 |
| 155° | 0 | 0 | 0 | 0 | 0 | 0 |
| 165° | 0 | 0 | 0 | 0 | 0 | 0 |
| 175° | 0 | 0 | 0 | 0 | 0 | 0 |
| 180° | 0 | 0 | 0 | 0 | 0 | 0 |



TEST NUMBER: P397360

CATALOG NUMBER: 8VRVT2-LD5-9-DR100-W-UNV-LR63-CD1-WL-U

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 22.5° | 25° | 30° | 35° | 40° | 45° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 261.4 | 261.4 | 261.4 | 261.4 | 261.4 | 261.4 | 261.4 | 261.4 | 261.4 | 261.4 | 261.4 |
| 2.5° | 263.7 | 263.2 | 262.5 | 262.3 | 262.3 | 262.3 | 262.3 | 261.8 | 261.1 | 260.2 | 259.3 |
| 5° | 262.3 | 261.8 | 261.1 | 261.1 | 260.9 | 261.1 | 261.1 | 260.7 | 260.2 | 259.3 | 258.3 |
| 7.5° | 260.4 | 260.2 | 259.3 | 258.8 | 258.8 | 258.8 | 259.3 | 258.8 | 258.6 | 257.6 | 256.7 |
| 10° | 257.9 | 257.4 | 256.9 | 256.9 | 257.2 | 257.2 | 257.2 | 257.4 | 256.9 | 255.8 | 255.1 |
| 12.5° | 255.1 | 254.4 | 253.9 | 253.9 | 254.1 | 254.1 | 254.4 | 254.4 | 254.4 | 253.6 | 253.6 |
| 15° | 251.1 | 250.8 | 249.9 | 250.1 | 250.1 | 250.6 | 250.8 | 251.1 | 250.8 | 251.6 | 251.8 |
| 17.5° | 246.6 | 246.4 | 245.5 | 245.5 | 245.9 | 246.2 | 246.9 | 247.8 | 248.3 | 249.2 | 250.4 |
| 20° | 240.3 | 240.3 | 239.9 | 240.3 | 241.3 | 241.7 | 242.2 | 243.8 | 244.8 | 246.6 | 248.0 |
| 22.5° | 234.5 | 234.0 | 234.0 | 234.5 | 235.4 | 236.6 | 237.5 | 239.9 | 241.5 | 243.8 | 245.7 |
| 25° | 227.5 | 227.2 | 227.0 | 228.2 | 229.6 | 230.7 | 232.4 | 235.2 | 237.5 | 240.3 | 243.4 |
| 27.5° | 220.0 | 219.7 | 220.2 | 221.2 | 223.7 | 225.4 | 226.8 | 230.5 | 233.3 | 237.7 | 241.7 |
| 30° | 213.0 | 212.3 | 212.7 | 214.1 | 217.4 | 219.7 | 221.2 | 225.4 | 229.3 | 234.5 | 239.9 |
| 32.5° | 204.8 | 204.1 | 205.0 | 207.1 | 210.9 | 213.2 | 215.8 | 220.2 | 224.9 | 231.2 | 238.9 |
| 35° | 195.9 | 196.1 | 196.6 | 199.9 | 203.9 | 206.7 | 209.2 | 215.1 | 220.9 | 228.6 | 236.6 |
| 37.5° | 187.0 | 186.6 | 188.4 | 192.2 | 196.8 | 200.4 | 202.9 | 209.0 | 217.2 | 225.6 | 234.0 |
| 40° | 177.9 | 178.4 | 179.8 | 184.0 | 188.9 | 193.3 | 196.1 | 204.1 | 213.0 | 221.6 | 230.3 |
| 42.5° | 168.6 | 169.7 | 171.1 | 176.0 | 182.1 | 185.6 | 189.8 | 198.5 | 207.8 | 216.9 | 225.8 |
| 45° | 159.4 | 160.4 | 162.5 | 167.9 | 173.7 | 178.4 | 183.0 | 192.2 | 202.4 | 212.0 | 220.9 |
| 47.5° | 149.9 | 150.8 | 153.6 | 159.2 | 165.7 | 170.9 | 175.8 | 185.6 | 196.1 | 206.0 | 213.9 |
| 50° | 140.0 | 141.4 | 144.2 | 149.9 | 158.5 | 163.2 | 168.1 | 178.8 | 188.7 | 198.2 | 207.4 |
| 52.5° | 130.9 | 131.6 | 136.1 | 141.4 | 150.3 | 155.7 | 160.4 | 171.4 | 180.7 | 191.5 | 201.5 |
| 55° | 121.1 | 122.5 | 126.5 | 131.9 | 141.7 | 147.3 | 152.7 | 163.2 | 173.7 | 184.9 | 197.3 |
| 57.5° | 111.5 | 112.7 | 116.9 | 123.0 | 133.5 | 138.9 | 144.0 | 155.5 | 166.2 | 180.2 | 196.4 |
| 60° | 101.9 | 103.3 | 107.5 | 114.5 | 125.1 | 130.7 | 136.1 | 148.2 | 162.2 | 179.5 | 200.4 |
| 62.5° | 91.9 | 94.2 | 97.2 | 105.9 | 116.7 | 122.3 | 128.8 | 142.8 | 161.3 | 183.3 | 208.1 |
| 65° | 82.8 | 83.9 | 88.6 | 97.5 | 108.9 | 115.5 | 123.0 | 141.0 | 164.4 | 191.2 | 217.2 |
| 67.5° | 73.2 | 74.8 | 80.0 | 89.8 | 102.6 | 110.3 | 119.7 | 142.8 | 171.4 | 199.9 | 222.6 |
| 70° | 64.5 | 65.7 | 72.0 | 82.8 | 98.2 | 108.2 | 119.7 | 147.5 | 178.1 | 203.2 | 220.9 |
| 72.5° | 54.9 | 56.8 | 64.5 | 77.6 | 96.3 | 108.5 | 122.0 | 152.4 | 179.5 | 198.7 | 211.8 |
| 75° | 45.6 | 48.4 | 58.4 | 73.4 | 95.9 | 109.6 | 124.1 | 151.7 | 173.0 | 187.5 | 198.9 |
| 77.5° | 37.9 | 41.4 | 52.6 | 70.6 | 94.9 | 108.5 | 121.8 | 143.5 | 160.6 | 174.4 | 185.2 |
| 80° | 29.2 | 34.6 | 47.7 | 67.1 | 90.7 | 102.4 | 113.2 | 131.9 | 145.6 | 159.0 | 170.7 |
| 82.5° | 22.2 | 28.3 | 42.5 | 61.7 | 82.0 | 91.9 | 100.3 | 116.9 | 131.4 | 144.0 | 158.3 |
| 85° | 15.9 | 22.4 | 36.7 | 53.8 | 70.8 | 79.5 | 87.2 | 102.9 | 117.1 | 131.4 | 145.9 |
| 87.5° | 11.0 | 17.5 | 31.1 | 46.0 | 61.2 | 68.3 | 75.7 | 90.7 | 104.7 | 118.5 | 134.4 |
| 90° | 8.9 | 14.3 | 26.0 | 39.5 | 52.6 | 60.3 | 66.9 | 80.4 | 94.4 | 108.9 | 123.7 |
| 92.5° | 8.4 | 11.9 | 21.7 | 33.4 | 45.6 | 51.9 | 58.0 | 70.4 | 83.5 | 97.0 | 110.1 |
| 95° | 7.7 | 9.6 | 17.1 | 27.1 | 37.4 | 43.0 | 47.9 | 59.6 | 70.6 | 82.5 | 95.2 |
| 97.5° | 7.2 | 7.7 | 13.1 | 21.0 | 29.7 | 34.4 | 38.3 | 47.5 | 57.3 | 66.4 | 77.8 |
| 100° | 6.5 | 6.8 | 10.0 | 16.4 | 22.7 | 26.7 | 29.9 | 37.4 | 44.4 | 51.7 | 59.4 |
| 102.5° | 5.8 | 5.8 | 7.7 | 12.2 | 17.8 | 20.3 | 23.1 | 29.2 | 34.4 | 39.0 | 44.9 |
| 105° | 5.1 | 5.1 | 6.1 | 9.3 | 13.3 | 15.9 | 17.8 | 22.2 | 26.2 | 29.7 | 33.4 |
| 107.5° | 4.7 | 4.4 | 4.9 | 7.2 | 10.5 | 12.4 | 14.3 | 17.5 | 20.6 | 22.9 | 25.5 |
| 110° | 3.7 | 3.7 | 4.0 | 5.8 | 8.7 | 10.0 | 11.7 | 14.3 | 16.8 | 18.5 | 19.9 |



TEST NUMBER: P397360

CATALOG NUMBER: 8VRVT2-LD5-9-DR100-W-UNV-LR63-CD1-WL-U

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 22.5° | 25° | 30° | 35° | 40° | 45° |
|--------|-----|-----|-----|-----|-----|-------|-----|------|------|------|------|
| 112.5° | 3.3 | 3.0 | 3.0 | 4.7 | 7.0 | 8.4 | 9.6 | 12.2 | 14.3 | 15.7 | 16.4 |
| 115° | 2.6 | 2.6 | 2.3 | 3.5 | 5.6 | 7.0 | 8.0 | 10.3 | 12.2 | 13.3 | 14.0 |
| 117.5° | 2.1 | 2.1 | 2.1 | 2.6 | 4.7 | 5.6 | 6.8 | 8.9 | 10.5 | 11.7 | 12.4 |
| 120° | 1.6 | 1.6 | 1.6 | 1.6 | 3.5 | 4.4 | 5.6 | 7.5 | 9.1 | 10.3 | 11.0 |
| 122.5° | 1.4 | 1.2 | 1.2 | 1.2 | 2.3 | 3.5 | 4.2 | 6.1 | 7.7 | 8.9 | 9.8 |
| 125° | 0.9 | 0.9 | 0.9 | 0.7 | 1.6 | 2.3 | 3.3 | 4.9 | 6.3 | 7.5 | 8.2 |
| 127.5° | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 1.4 | 2.1 | 3.7 | 5.1 | 6.3 | 7.0 |
| 130° | 0.7 | 0.7 | 0.5 | 0.5 | 0.2 | 0.7 | 1.2 | 2.6 | 3.7 | 4.9 | 5.8 |
| 132.5° | 0.5 | 0.5 | 0.5 | 0.2 | 0.2 | 0.2 | 0.5 | 1.6 | 2.8 | 3.7 | 4.4 |
| 135° | 0.5 | 0.5 | 0.2 | 0.2 | 0.0 | 0.0 | 0.0 | 0.9 | 1.9 | 2.6 | 3.3 |
| 137.5° | 0.2 | 0.2 | 0.2 | 0.2 | 0.0 | 0.0 | 0.0 | 0.2 | 0.9 | 1.6 | 2.3 |
| 140° | 0.2 | 0.2 | 0.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.2 | 0.7 | 1.4 |
| 142.5° | 0.2 | 0.2 | 0.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.2 | 0.5 |
| 145° | 0.2 | 0.2 | 0.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 147.5° | 0.2 | 0.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 150° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 152.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 155° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 157.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 160° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 162.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 165° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 167.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 170° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 172.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 175° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 177.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 180° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



TEST NUMBER: P397360

CATALOG NUMBER: 8VRVT2-LD5-9-DR100-W-UNV-LR63-CD1-WL-U

CANDELA DISTRIBUTION (continued):

| | 50° | 55° | 60° | 65° | 67.5° | 70° | 75° | 80° | 85° | 90° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 261.4 | 261.4 | 261.4 | 261.4 | 261.4 | 261.4 | 261.4 | 261.4 | 261.4 | 261.4 |
| 2.5° | 259.3 | 259.7 | 259.7 | 259.7 | 259.7 | 259.7 | 259.3 | 259.0 | 258.8 | 258.8 |
| 5° | 258.1 | 258.6 | 258.8 | 258.8 | 258.8 | 258.8 | 258.6 | 258.3 | 258.1 | 257.9 |
| 7.5° | 256.7 | 257.4 | 257.9 | 258.1 | 258.1 | 258.1 | 257.9 | 257.9 | 257.4 | 257.2 |
| 10° | 255.3 | 256.0 | 256.7 | 257.2 | 257.4 | 257.4 | 257.4 | 257.4 | 257.2 | 256.9 |
| 12.5° | 254.4 | 255.5 | 256.4 | 256.9 | 256.9 | 257.2 | 257.6 | 257.6 | 257.4 | 257.2 |
| 15° | 253.2 | 255.1 | 256.2 | 256.9 | 256.9 | 257.4 | 258.3 | 258.3 | 258.1 | 258.3 |
| 17.5° | 252.2 | 254.1 | 256.0 | 257.2 | 257.6 | 258.3 | 259.0 | 259.3 | 259.5 | 259.3 |
| 20° | 250.4 | 253.4 | 256.0 | 257.4 | 258.3 | 258.6 | 260.2 | 261.4 | 261.4 | 260.9 |
| 22.5° | 249.7 | 253.2 | 256.2 | 259.3 | 259.7 | 260.7 | 262.8 | 263.9 | 264.6 | 264.6 |
| 25° | 248.3 | 252.9 | 257.4 | 261.1 | 262.8 | 263.9 | 266.0 | 267.9 | 267.4 | 268.1 |
| 27.5° | 247.6 | 253.2 | 257.6 | 262.3 | 264.6 | 265.8 | 268.8 | 270.0 | 270.7 | 271.2 |
| 30° | 247.1 | 253.4 | 258.3 | 263.5 | 265.3 | 267.7 | 270.5 | 272.4 | 273.3 | 273.1 |
| 32.5° | 246.4 | 252.7 | 259.0 | 263.5 | 266.3 | 268.1 | 270.9 | 273.1 | 274.4 | 274.7 |
| 35° | 244.8 | 252.0 | 257.9 | 263.2 | 265.3 | 267.7 | 270.9 | 272.1 | 274.4 | 274.9 |
| 37.5° | 242.7 | 249.7 | 255.3 | 261.1 | 263.2 | 265.1 | 269.1 | 270.2 | 271.2 | 271.9 |
| 40° | 239.4 | 245.9 | 252.0 | 257.6 | 259.5 | 261.6 | 264.4 | 266.3 | 267.7 | 267.4 |
| 42.5° | 235.2 | 241.3 | 247.1 | 253.2 | 254.6 | 256.9 | 260.4 | 262.5 | 263.9 | 264.4 |
| 45° | 228.4 | 235.4 | 242.2 | 247.6 | 250.4 | 252.9 | 256.9 | 259.3 | 260.9 | 262.5 |
| 47.5° | 221.9 | 230.5 | 238.2 | 244.3 | 247.6 | 250.1 | 255.1 | 258.6 | 261.1 | 262.1 |
| 50° | 216.7 | 225.6 | 234.5 | 243.6 | 247.1 | 250.4 | 256.0 | 259.7 | 262.5 | 263.9 |
| 52.5° | 212.5 | 223.3 | 234.5 | 245.7 | 250.6 | 254.6 | 261.1 | 265.8 | 269.6 | 270.7 |
| 55° | 210.9 | 224.4 | 238.7 | 251.6 | 257.2 | 262.3 | 269.8 | 274.2 | 278.0 | 278.7 |
| 57.5° | 213.7 | 231.9 | 247.6 | 260.9 | 266.5 | 270.7 | 278.0 | 281.7 | 284.7 | 285.2 |
| 60° | 221.4 | 240.6 | 256.9 | 268.4 | 274.2 | 278.0 | 283.3 | 286.1 | 288.2 | 288.2 |
| 62.5° | 231.0 | 248.3 | 262.5 | 272.1 | 276.3 | 279.1 | 282.4 | 285.7 | 286.4 | 287.3 |
| 65° | 238.2 | 253.2 | 263.0 | 270.0 | 273.8 | 274.9 | 278.4 | 279.8 | 281.7 | 281.7 |
| 67.5° | 238.7 | 250.6 | 257.6 | 263.2 | 265.3 | 267.0 | 271.2 | 272.8 | 274.2 | 274.4 |
| 70° | 232.4 | 240.6 | 248.5 | 253.4 | 255.8 | 259.0 | 263.0 | 265.6 | 267.0 | 267.2 |
| 72.5° | 222.3 | 229.8 | 237.7 | 245.2 | 248.5 | 251.3 | 256.4 | 260.0 | 261.4 | 262.3 |
| 75° | 210.2 | 218.4 | 227.9 | 236.8 | 240.1 | 242.9 | 250.1 | 253.4 | 256.2 | 256.4 |
| 77.5° | 197.1 | 206.9 | 218.1 | 227.7 | 231.9 | 236.8 | 242.7 | 247.6 | 249.7 | 251.6 |
| 80° | 184.0 | 196.6 | 208.1 | 219.3 | 223.3 | 228.9 | 235.9 | 241.5 | 243.8 | 245.9 |
| 82.5° | 171.6 | 185.9 | 199.9 | 211.3 | 215.8 | 220.7 | 227.9 | 234.2 | 236.4 | 237.7 |
| 85° | 160.8 | 175.6 | 189.4 | 201.1 | 206.7 | 210.9 | 219.1 | 224.4 | 227.5 | 228.6 |
| 87.5° | 149.4 | 164.4 | 177.9 | 190.5 | 195.2 | 199.4 | 207.8 | 213.7 | 216.5 | 217.2 |
| 90° | 138.2 | 153.6 | 166.2 | 177.2 | 182.8 | 188.0 | 195.7 | 201.1 | 203.9 | 203.9 |
| 92.5° | 123.9 | 138.6 | 152.0 | 162.0 | 167.4 | 171.6 | 180.0 | 184.0 | 188.7 | 188.7 |
| 95° | 107.5 | 120.4 | 132.8 | 143.1 | 147.5 | 152.0 | 159.0 | 164.4 | 166.9 | 168.1 |
| 97.5° | 89.1 | 98.9 | 110.1 | 118.5 | 124.6 | 126.0 | 133.7 | 139.1 | 141.9 | 141.0 |
| 100° | 67.1 | 74.8 | 83.7 | 90.7 | 95.4 | 98.0 | 103.3 | 106.4 | 110.6 | 111.0 |
| 102.5° | 50.0 | 55.6 | 60.8 | 64.8 | 68.5 | 69.7 | 73.4 | 76.4 | 78.3 | 80.4 |
| 105° | 36.7 | 40.0 | 43.0 | 45.8 | 46.5 | 48.6 | 51.7 | 53.8 | 52.6 | 52.8 |
| 107.5° | 27.3 | 29.0 | 30.6 | 31.6 | 32.7 | 34.1 | 34.8 | 34.8 | 36.0 | 36.5 |
| 110° | 20.8 | 21.7 | 22.4 | 22.7 | 23.1 | 23.1 | 23.1 | 23.1 | 23.4 | 23.8 |



TEST NUMBER: P397360

CATALOG NUMBER: 8VRVT2-LD5-9-DR100-W-UNV-LR63-CD1-WL-U

CANDELA DISTRIBUTION (continued):

| | 50° | 55° | 60° | 65° | 67.5° | 70° | 75° | 80° | 85° | 90° |
|--------|------|------|------|------|-------|------|------|------|------|------|
| 112.5° | 16.6 | 17.1 | 17.1 | 17.1 | 16.8 | 16.8 | 16.6 | 16.4 | 15.9 | 16.4 |
| 115° | 14.3 | 14.3 | 13.8 | 13.6 | 13.3 | 13.1 | 12.6 | 12.2 | 11.9 | 12.4 |
| 117.5° | 12.6 | 12.4 | 12.2 | 11.5 | 11.2 | 11.0 | 10.5 | 10.3 | 9.8 | 9.6 |
| 120° | 11.2 | 11.2 | 10.8 | 10.5 | 10.3 | 9.8 | 9.3 | 9.1 | 8.7 | 8.4 |
| 122.5° | 10.0 | 10.0 | 9.8 | 9.6 | 9.3 | 9.1 | 8.7 | 8.4 | 8.0 | 8.0 |
| 125° | 8.7 | 8.9 | 8.9 | 8.7 | 8.4 | 8.4 | 8.0 | 7.7 | 7.5 | 7.5 |
| 127.5° | 7.5 | 7.7 | 8.0 | 8.0 | 7.7 | 7.7 | 7.5 | 7.2 | 7.0 | 6.8 |
| 130° | 6.3 | 6.8 | 6.8 | 7.0 | 7.0 | 6.8 | 6.8 | 6.5 | 6.3 | 6.3 |
| 132.5° | 5.1 | 5.6 | 5.8 | 5.8 | 6.1 | 6.1 | 6.1 | 5.8 | 5.8 | 5.6 |
| 135° | 4.0 | 4.4 | 4.7 | 4.9 | 4.9 | 5.1 | 5.1 | 4.9 | 4.9 | 4.9 |
| 137.5° | 3.0 | 3.3 | 3.7 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 |
| 140° | 1.9 | 2.3 | 2.8 | 2.8 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 |
| 142.5° | 0.9 | 1.4 | 1.6 | 1.9 | 1.9 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 |
| 145° | 0.2 | 0.5 | 0.7 | 0.9 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 |
| 147.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 150° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 152.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 155° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 157.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 160° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 162.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 165° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 167.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 170° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 172.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 175° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 177.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 180° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)