

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: P397215

Luminaire Tested: **2VRVT2-LD5-5-DR-W-UNV-LG52-CD1-WL-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P397215
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1710-355-4)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: 2VRVT2-LD5-5-DR-W-UNV-LG52-CD1-WL-U
Description:
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3660.8 lumens
Efficiency: N/A
Efficacy: 39.4 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.59 / 1.58
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 2.08' x H: 0.17')
CIE Type: Direct

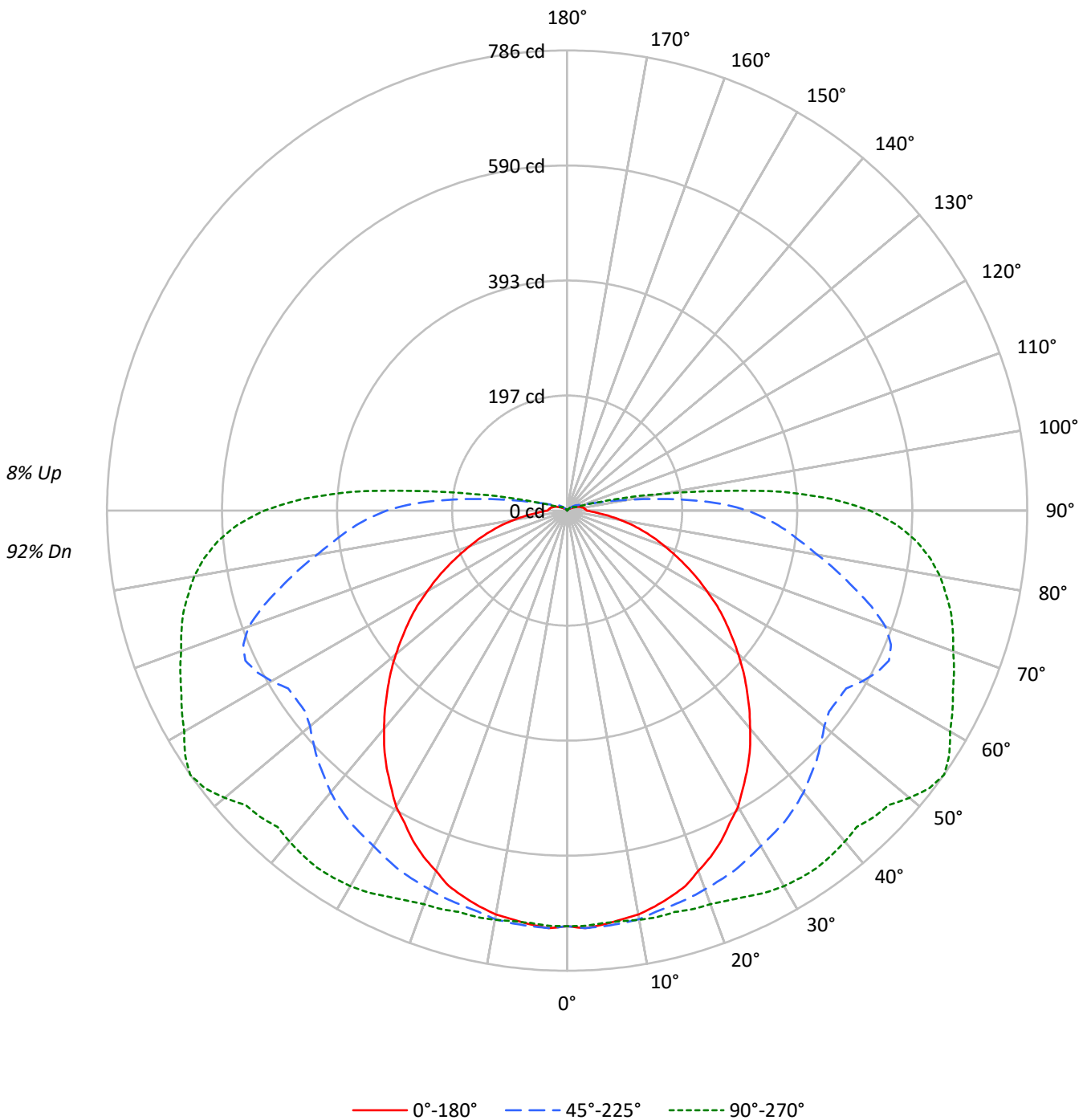
Input Watts (W): 92.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P397215

CATALOG NUMBER: 2VRVT2-LD5-5-DR-W-UNV-LG52-CD1-WL-U

Luminous Intensity Polar Plot





TEST NUMBER: P397215

CATALOG NUMBER: 2VRVT2-LD5-5-DR-W-UNV-LG52-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 | 117 | 117 | 117 | 117 | 113 | 113 | 113 | 113 | 106 | 106 | 106 | 100 | 100 | 100 | 94 | 94 | 94 | 92 |
| 1 | 102 | 95 | 89 | 83 | 98 | 92 | 86 | 81 | 86 | 81 | 77 | 80 | 76 | 73 | 75 | 72 | 69 | 66 |
| 2 | 90 | 80 | 71 | 64 | 87 | 77 | 69 | 62 | 72 | 65 | 59 | 67 | 62 | 57 | 63 | 58 | 54 | 51 |
| 3 | 81 | 68 | 59 | 51 | 78 | 66 | 57 | 50 | 62 | 54 | 48 | 58 | 51 | 46 | 54 | 48 | 44 | 41 |
| 4 | 74 | 60 | 49 | 42 | 71 | 58 | 48 | 41 | 54 | 46 | 39 | 50 | 43 | 38 | 47 | 41 | 36 | 33 |
| 5 | 67 | 53 | 42 | 35 | 64 | 51 | 41 | 34 | 48 | 39 | 33 | 45 | 38 | 32 | 42 | 36 | 31 | 28 |
| 6 | 62 | 47 | 37 | 30 | 59 | 46 | 36 | 29 | 43 | 35 | 28 | 40 | 33 | 27 | 38 | 31 | 27 | 24 |
| 7 | 57 | 42 | 33 | 26 | 55 | 41 | 32 | 26 | 39 | 31 | 25 | 36 | 29 | 24 | 34 | 28 | 23 | 21 |
| 8 | 53 | 38 | 29 | 23 | 51 | 37 | 29 | 23 | 35 | 27 | 22 | 33 | 26 | 21 | 31 | 25 | 21 | 18 |
| 9 | 50 | 35 | 26 | 20 | 48 | 34 | 26 | 20 | 32 | 25 | 19 | 31 | 24 | 19 | 29 | 23 | 18 | 16 |
| 10 | 46 | 32 | 24 | 18 | 45 | 31 | 23 | 18 | 30 | 23 | 18 | 28 | 22 | 17 | 27 | 21 | 17 | 15 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|-------|-------|
| 0° | 7336 | 7336 | 7336 |
| 5° | 7312 | 7207 | 7128 |
| 10° | 7248 | 7071 | 7035 |
| 15° | 7154 | 6923 | 6972 |
| 20° | 6999 | 6843 | 7015 |
| 25° | 6846 | 6801 | 7177 |
| 30° | 6661 | 6755 | 7412 |
| 35° | 6416 | 6788 | 7616 |
| 40° | 6146 | 6805 | 7779 |
| 45° | 5872 | 6816 | 8118 |
| 50° | 5604 | 6835 | 8783 |
| 55° | 5327 | 7167 | 9596 |
| 60° | 5008 | 7994 | 9897 |
| 65° | 4696 | 9119 | 10370 |
| 70° | 4379 | 9696 | 11067 |
| 75° | 4117 | 9668 | 12082 |
| 80° | 3782 | 9718 | 13320 |
| 85° | 3400 | 10207 | 14757 |



TEST NUMBER: P397215

CATALOG NUMBER: 2VRVT2-LD5-5-DR-W-UNV-LG52-CD1-WL-U

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 67.7 | 1.8 |
| 10°-20° | 197.4 | 5.4 |
| 20°-30° | 312.2 | 8.5 |
| 30°-40° | 403.4 | 11.0 |
| 40°-50° | 460.3 | 12.6 |
| 50°-60° | 504.9 | 13.8 |
| 60°-70° | 520.2 | 14.2 |
| 70°-80° | 488.7 | 13.3 |
| 80°-90° | 396.3 | 10.8 |
| 90°-100° | 223.5 | 6.1 |
| 100°-110° | 55.1 | 1.5 |
| 110°-120° | 18.0 | 0.5 |
| 120°-130° | 9.3 | 0.3 |
| 130°-140° | 3.5 | 0.1 |
| 140°-150° | 0.3 | 0.0 |
| 150°-160° | 0.0 | 0.0 |
| 160°-170° | 0.0 | 0.0 |
| 170°-180° | 0.0 | 0.0 |
| 0°-30° | 577.3 | 15.8 |
| 0°-40° | 980.7 | 26.8 |
| 0°-60° | 1946.0 | 53.2 |
| 0°-90° | 3351.1 | 91.5 |
| 90°-120° | 296.6 | 8.1 |
| 90°-150° | 309.7 | 8.5 |
| 90°-180° | 310.0 | 8.5 |
| 0°-180° | 3660.8 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|-----|-------|-----|-------|-----|------|
| 0° | 710 | 710 | 710 | 710 | 710 | |
| 5° | 710 | 713 | 713 | 710 | 707 | 67 |
| 15° | 683 | 686 | 698 | 709 | 710 | 193 |
| 25° | 623 | 636 | 678 | 713 | 727 | 286 |
| 35° | 537 | 568 | 648 | 721 | 745 | 336 |
| 45° | 434 | 486 | 603 | 698 | 741 | 335 |
| 55° | 330 | 398 | 564 | 742 | 786 | 295 |
| 65° | 225 | 320 | 607 | 700 | 727 | 223 |
| 75° | 134 | 316 | 506 | 628 | 679 | 142 |
| 85° | 55 | 218 | 374 | 536 | 599 | 53 |
| 90° | 34 | 159 | 308 | 457 | 517 | 19 |
| 95° | 31 | 106 | 208 | 321 | 368 | 25 |
| 105° | 24 | 35 | 51 | 56 | 55 | 25 |
| 115° | 13 | 17 | 23 | 17 | 13 | 14 |
| 125° | 7 | 7 | 13 | 12 | 11 | 6 |
| 135° | 3 | 1 | 5 | 7 | 7 | 2 |
| 145° | 0 | 0 | 0 | 0 | 0 | 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: P397215

CATALOG NUMBER: 2VRVT2-LD5-5-DR-W-UNV-LG52-CD1-WL-U

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 22.5° | 25° | 30° | 35° | 40° | 45° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 709.9 | 709.9 | 709.9 | 709.9 | 709.9 | 709.9 | 709.9 | 709.9 | 709.9 | 709.9 | 709.9 |
| 2.5° | 713.9 | 713.9 | 712.6 | 713.9 | 713.9 | 712.6 | 713.9 | 713.9 | 713.9 | 713.9 | 713.9 |
| 5° | 709.9 | 711.2 | 711.2 | 711.2 | 711.2 | 712.6 | 712.6 | 712.6 | 712.6 | 712.6 | 712.6 |
| 7.5° | 704.6 | 705.8 | 707.2 | 707.2 | 708.6 | 708.6 | 708.6 | 708.6 | 709.9 | 711.2 | 711.2 |
| 10° | 700.5 | 700.5 | 701.8 | 703.2 | 701.8 | 703.2 | 704.6 | 704.6 | 705.8 | 707.2 | 708.6 |
| 12.5° | 692.5 | 692.5 | 693.8 | 695.1 | 695.1 | 695.1 | 696.5 | 697.8 | 699.2 | 700.5 | 701.8 |
| 15° | 683.1 | 683.1 | 684.4 | 684.4 | 685.8 | 685.8 | 685.8 | 688.5 | 691.1 | 695.1 | 697.8 |
| 17.5° | 672.4 | 671.0 | 672.4 | 673.8 | 675.0 | 676.4 | 676.4 | 680.4 | 687.1 | 691.1 | 693.8 |
| 20° | 655.0 | 657.7 | 659.0 | 661.7 | 663.0 | 663.0 | 665.7 | 672.4 | 677.8 | 681.8 | 688.5 |
| 22.5° | 640.2 | 641.6 | 641.6 | 645.6 | 649.6 | 649.6 | 652.3 | 659.0 | 667.0 | 673.8 | 683.1 |
| 25° | 622.8 | 622.8 | 625.5 | 628.2 | 633.5 | 636.2 | 638.9 | 648.2 | 656.3 | 667.0 | 677.8 |
| 27.5° | 601.4 | 604.1 | 606.7 | 609.4 | 617.4 | 621.5 | 626.9 | 636.2 | 647.0 | 659.0 | 669.7 |
| 30° | 584.0 | 584.0 | 586.6 | 590.7 | 600.1 | 605.4 | 610.8 | 622.8 | 634.9 | 648.2 | 661.7 |
| 32.5° | 559.8 | 561.2 | 565.2 | 570.6 | 581.3 | 588.0 | 593.4 | 608.1 | 621.5 | 636.2 | 655.0 |
| 35° | 537.1 | 538.5 | 543.8 | 550.5 | 562.6 | 567.9 | 575.9 | 592.0 | 608.1 | 626.9 | 648.2 |
| 37.5° | 513.0 | 514.3 | 518.3 | 529.0 | 542.5 | 549.1 | 557.2 | 573.3 | 593.4 | 616.2 | 638.9 |
| 40° | 486.2 | 490.2 | 494.2 | 507.6 | 519.7 | 529.0 | 537.1 | 557.2 | 580.0 | 605.4 | 628.2 |
| 42.5° | 460.7 | 463.4 | 470.2 | 483.5 | 497.0 | 509.0 | 517.0 | 538.5 | 565.2 | 590.7 | 614.8 |
| 45° | 434.0 | 436.6 | 446.0 | 459.4 | 476.8 | 486.2 | 497.0 | 521.0 | 550.5 | 575.9 | 602.7 |
| 47.5° | 408.6 | 412.6 | 420.6 | 435.3 | 452.7 | 464.8 | 476.8 | 503.6 | 531.8 | 559.8 | 588.0 |
| 50° | 381.8 | 385.8 | 395.1 | 411.2 | 428.6 | 442.0 | 455.4 | 484.9 | 514.3 | 543.8 | 573.3 |
| 52.5° | 355.0 | 359.0 | 369.7 | 385.8 | 405.8 | 420.6 | 434.0 | 464.8 | 497.0 | 527.8 | 563.9 |
| 55° | 329.5 | 332.2 | 344.2 | 361.7 | 384.4 | 397.8 | 411.2 | 444.7 | 478.2 | 515.7 | 563.9 |
| 57.5° | 304.1 | 304.1 | 318.8 | 337.5 | 361.7 | 375.0 | 391.1 | 424.6 | 464.8 | 514.3 | 565.2 |
| 60° | 275.9 | 279.9 | 293.4 | 312.1 | 340.2 | 355.0 | 371.0 | 408.6 | 459.4 | 517.0 | 582.6 |
| 62.5° | 250.5 | 254.5 | 267.9 | 288.0 | 318.8 | 336.2 | 355.0 | 401.8 | 462.1 | 531.8 | 597.4 |
| 65° | 225.0 | 229.0 | 242.4 | 267.9 | 301.4 | 320.1 | 344.2 | 403.2 | 475.5 | 549.1 | 606.7 |
| 67.5° | 199.6 | 205.0 | 222.3 | 247.8 | 288.0 | 312.1 | 340.2 | 412.6 | 491.6 | 555.8 | 598.7 |
| 70° | 176.8 | 182.2 | 202.2 | 233.0 | 278.6 | 309.4 | 344.2 | 424.6 | 495.6 | 545.1 | 578.6 |
| 72.5° | 155.4 | 162.1 | 184.8 | 221.0 | 275.9 | 312.1 | 351.0 | 427.3 | 484.9 | 521.0 | 545.1 |
| 75° | 133.9 | 142.0 | 170.1 | 214.3 | 277.3 | 316.1 | 352.2 | 415.2 | 459.4 | 484.9 | 506.3 |
| 77.5° | 113.8 | 123.2 | 158.1 | 207.6 | 275.9 | 309.4 | 338.9 | 387.1 | 417.9 | 443.4 | 470.2 |
| 80° | 92.4 | 107.1 | 146.0 | 200.9 | 261.2 | 286.6 | 308.1 | 344.2 | 376.4 | 401.8 | 434.0 |
| 82.5° | 73.7 | 91.1 | 132.6 | 184.8 | 233.0 | 254.5 | 271.9 | 305.4 | 334.9 | 367.0 | 401.8 |
| 85° | 54.9 | 75.0 | 116.6 | 160.7 | 200.9 | 218.3 | 235.8 | 266.6 | 297.4 | 333.5 | 373.7 |
| 87.5° | 41.5 | 60.2 | 97.8 | 135.3 | 171.4 | 186.2 | 202.2 | 234.4 | 265.2 | 301.4 | 342.9 |
| 90° | 33.5 | 49.5 | 80.4 | 113.8 | 144.6 | 159.4 | 174.2 | 202.2 | 235.8 | 267.9 | 308.1 |
| 92.5° | 32.2 | 41.5 | 67.0 | 93.8 | 120.6 | 133.9 | 146.0 | 171.4 | 200.9 | 230.4 | 263.8 |
| 95° | 30.8 | 34.8 | 52.2 | 73.7 | 95.1 | 105.8 | 115.2 | 135.3 | 158.1 | 180.8 | 207.6 |
| 97.5° | 29.4 | 30.8 | 41.5 | 56.2 | 72.3 | 80.4 | 88.4 | 103.1 | 117.8 | 133.9 | 150.0 |
| 100° | 28.2 | 28.2 | 33.5 | 44.2 | 54.9 | 60.2 | 64.3 | 76.3 | 85.8 | 95.1 | 105.8 |
| 102.5° | 25.4 | 25.4 | 28.2 | 33.5 | 41.5 | 45.5 | 48.2 | 54.9 | 61.6 | 68.3 | 73.7 |
| 105° | 24.1 | 22.8 | 24.1 | 28.2 | 32.2 | 34.8 | 37.5 | 41.5 | 44.2 | 48.2 | 50.9 |
| 107.5° | 21.4 | 21.4 | 21.4 | 24.1 | 26.8 | 28.2 | 29.4 | 32.2 | 34.8 | 36.2 | 37.5 |
| 110° | 18.7 | 18.7 | 17.4 | 20.1 | 22.8 | 24.1 | 25.4 | 26.8 | 28.2 | 29.4 | 29.4 |



TEST NUMBER: P397215

CATALOG NUMBER: 2VRVT2-LD5-5-DR-W-UNV-LG52-CD1-WL-U

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 22.5° | 25° | 30° | 35° | 40° | 45° |
|--------|------|------|------|------|------|-------|------|------|------|------|------|
| 112.5° | 16.1 | 16.1 | 16.1 | 16.1 | 18.7 | 20.1 | 21.4 | 22.8 | 25.4 | 25.4 | 25.4 |
| 115° | 13.4 | 13.4 | 13.4 | 13.4 | 16.1 | 17.4 | 18.7 | 20.1 | 21.4 | 22.8 | 22.8 |
| 117.5° | 10.7 | 10.7 | 10.7 | 10.7 | 13.4 | 13.4 | 14.7 | 17.4 | 18.7 | 20.1 | 20.1 |
| 120° | 9.4 | 9.4 | 9.4 | 8.0 | 10.7 | 12.1 | 12.1 | 14.7 | 16.1 | 17.4 | 18.7 |
| 122.5° | 8.0 | 6.7 | 6.7 | 6.7 | 8.0 | 8.0 | 9.4 | 12.1 | 13.4 | 14.7 | 16.1 |
| 125° | 6.7 | 5.4 | 5.4 | 5.4 | 5.4 | 6.7 | 8.0 | 9.4 | 12.1 | 13.4 | 13.4 |
| 127.5° | 5.4 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 5.4 | 6.7 | 9.4 | 10.7 | 10.7 |
| 130° | 4.0 | 4.0 | 4.0 | 2.6 | 2.6 | 2.6 | 2.6 | 5.4 | 6.7 | 8.0 | 9.4 |
| 132.5° | 2.6 | 2.6 | 2.6 | 2.6 | 1.4 | 1.4 | 1.4 | 2.6 | 4.0 | 5.4 | 6.7 |
| 135° | 2.6 | 2.6 | 2.6 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 2.6 | 4.0 | 5.4 |
| 137.5° | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 0.0 | 0.0 | 1.4 | 2.6 | 2.6 |
| 140° | 1.4 | 1.4 | 1.4 | 1.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.4 |
| 142.5° | 1.4 | 1.4 | 1.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 145° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 147.5° | 0.0 | 0.0 | 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: P397215

CATALOG NUMBER: 2VRVT2-LD5-5-DR-W-UNV-LG52-CD1-WL-U

CANDELA DISTRIBUTION (continued):

| | 50° | 55° | 60° | 65° | 67.5° | 70° | 75° | 80° | 85° | 90° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 709.9 | 709.9 | 709.9 | 709.9 | 709.9 | 709.9 | 709.9 | 709.9 | 709.9 | 709.9 |
| 2.5° | 713.9 | 713.9 | 712.6 | 712.6 | 712.6 | 711.2 | 711.2 | 709.9 | 709.9 | 709.9 |
| 5° | 712.6 | 712.6 | 711.2 | 711.2 | 709.9 | 709.9 | 708.6 | 708.6 | 708.6 | 707.2 |
| 7.5° | 709.9 | 709.9 | 709.9 | 708.6 | 708.6 | 708.6 | 707.2 | 707.2 | 707.2 | 707.2 |
| 10° | 707.2 | 707.2 | 707.2 | 708.6 | 708.6 | 708.6 | 708.6 | 709.9 | 709.9 | 709.9 |
| 12.5° | 703.2 | 704.6 | 707.2 | 707.2 | 708.6 | 708.6 | 708.6 | 709.9 | 711.2 | 711.2 |
| 15° | 699.2 | 703.2 | 705.8 | 708.6 | 708.6 | 709.9 | 709.9 | 711.2 | 711.2 | 709.9 |
| 17.5° | 697.8 | 701.8 | 705.8 | 708.6 | 709.9 | 711.2 | 712.6 | 713.9 | 715.3 | 713.9 |
| 20° | 693.8 | 700.5 | 705.8 | 709.9 | 711.2 | 711.2 | 715.3 | 716.6 | 716.6 | 715.3 |
| 22.5° | 689.8 | 697.8 | 703.2 | 708.6 | 711.2 | 712.6 | 716.6 | 717.9 | 719.3 | 720.6 |
| 25° | 685.8 | 692.5 | 701.8 | 709.9 | 712.6 | 716.6 | 720.6 | 724.6 | 726.0 | 727.3 |
| 27.5° | 681.8 | 691.1 | 703.2 | 712.6 | 716.6 | 720.6 | 727.3 | 732.6 | 732.6 | 735.4 |
| 30° | 675.0 | 691.1 | 703.2 | 715.3 | 719.3 | 724.6 | 734.0 | 739.4 | 740.7 | 740.7 |
| 32.5° | 672.4 | 689.8 | 704.6 | 716.6 | 721.9 | 726.0 | 735.4 | 740.7 | 743.4 | 743.4 |
| 35° | 667.0 | 685.8 | 701.8 | 713.9 | 720.6 | 724.6 | 734.0 | 742.0 | 743.4 | 744.7 |
| 37.5° | 659.0 | 679.1 | 696.5 | 709.9 | 715.3 | 721.9 | 731.3 | 736.6 | 740.7 | 742.0 |
| 40° | 651.0 | 669.7 | 688.5 | 703.2 | 709.9 | 715.3 | 726.0 | 734.0 | 736.6 | 738.0 |
| 42.5° | 637.6 | 660.3 | 679.1 | 696.5 | 703.2 | 708.6 | 720.6 | 727.3 | 732.6 | 732.6 |
| 45° | 626.9 | 648.2 | 671.0 | 688.5 | 697.8 | 705.8 | 721.9 | 734.0 | 740.7 | 740.7 |
| 47.5° | 614.8 | 638.9 | 665.7 | 693.8 | 704.6 | 713.9 | 728.6 | 736.6 | 743.4 | 744.7 |
| 50° | 604.1 | 638.9 | 671.0 | 696.5 | 707.2 | 719.3 | 739.4 | 754.1 | 762.2 | 763.4 |
| 52.5° | 602.7 | 641.6 | 676.4 | 711.2 | 724.6 | 739.4 | 758.1 | 770.2 | 776.9 | 779.5 |
| 55° | 605.4 | 653.6 | 696.5 | 727.3 | 742.0 | 752.7 | 768.8 | 779.5 | 783.5 | 786.2 |
| 57.5° | 621.5 | 671.0 | 709.9 | 736.6 | 747.4 | 755.4 | 766.2 | 770.2 | 774.2 | 774.2 |
| 60° | 637.6 | 683.1 | 711.2 | 730.0 | 738.0 | 744.7 | 751.4 | 755.4 | 758.1 | 755.4 |
| 62.5° | 648.2 | 680.4 | 701.8 | 713.9 | 719.3 | 723.3 | 731.3 | 738.0 | 738.0 | 742.0 |
| 65° | 642.9 | 665.7 | 683.1 | 695.1 | 700.5 | 705.8 | 716.6 | 721.9 | 728.6 | 727.3 |
| 67.5° | 625.5 | 647.0 | 660.3 | 676.4 | 683.1 | 688.5 | 701.8 | 708.6 | 715.3 | 715.3 |
| 70° | 598.7 | 617.4 | 634.9 | 652.3 | 659.0 | 667.0 | 681.8 | 692.5 | 697.8 | 701.8 |
| 72.5° | 563.9 | 584.0 | 606.7 | 632.2 | 644.2 | 652.3 | 669.7 | 681.8 | 689.8 | 691.1 |
| 75° | 530.4 | 557.2 | 589.4 | 617.4 | 628.2 | 638.9 | 657.7 | 669.7 | 675.0 | 679.1 |
| 77.5° | 499.6 | 531.8 | 566.6 | 597.4 | 609.4 | 621.5 | 640.2 | 653.6 | 661.7 | 663.0 |
| 80° | 470.2 | 507.6 | 542.5 | 575.9 | 589.4 | 600.1 | 620.2 | 634.9 | 642.9 | 647.0 |
| 82.5° | 440.6 | 482.2 | 518.3 | 553.2 | 566.6 | 580.0 | 600.1 | 614.8 | 624.2 | 625.5 |
| 85° | 413.8 | 452.7 | 490.2 | 523.7 | 535.8 | 551.8 | 573.3 | 588.0 | 596.0 | 598.7 |
| 87.5° | 381.8 | 419.2 | 455.4 | 487.5 | 501.0 | 515.7 | 537.1 | 553.2 | 559.8 | 563.9 |
| 90° | 342.9 | 380.4 | 412.6 | 443.4 | 456.7 | 468.8 | 487.5 | 505.0 | 513.0 | 517.0 |
| 92.5° | 296.0 | 329.5 | 361.7 | 387.1 | 399.1 | 408.6 | 429.9 | 443.4 | 448.7 | 452.7 |
| 95° | 235.8 | 259.8 | 288.0 | 310.7 | 321.4 | 329.5 | 344.2 | 357.6 | 365.7 | 368.3 |
| 97.5° | 167.4 | 186.2 | 199.6 | 217.0 | 221.0 | 230.4 | 242.4 | 250.5 | 255.8 | 254.5 |
| 100° | 115.2 | 127.3 | 135.3 | 142.0 | 144.6 | 150.0 | 156.7 | 158.1 | 163.4 | 162.1 |
| 102.5° | 77.7 | 81.7 | 85.8 | 89.8 | 91.1 | 92.4 | 96.4 | 95.1 | 97.8 | 99.1 |
| 105° | 52.2 | 53.6 | 54.9 | 56.2 | 56.2 | 56.2 | 56.2 | 56.2 | 56.2 | 54.9 |
| 107.5° | 37.5 | 36.2 | 36.2 | 36.2 | 34.8 | 34.8 | 33.5 | 33.5 | 33.5 | 32.2 |
| 110° | 29.4 | 28.2 | 26.8 | 25.4 | 24.1 | 24.1 | 22.8 | 22.8 | 21.4 | 21.4 |



TEST NUMBER: P397215

CATALOG NUMBER: 2VRVT2-LD5-5-DR-W-UNV-LG52-CD1-WL-U

CANDELA DISTRIBUTION (continued):

| | 50° | 55° | 60° | 65° | 67.5° | 70° | 75° | 80° | 85° | 90° |
|--------|------|------|------|------|-------|------|------|------|------|------|
| 112.5° | 24.1 | 22.8 | 21.4 | 20.1 | 20.1 | 18.7 | 18.7 | 17.4 | 16.1 | 16.1 |
| 115° | 21.4 | 20.1 | 20.1 | 18.7 | 17.4 | 17.4 | 16.1 | 14.7 | 14.7 | 13.4 |
| 117.5° | 20.1 | 18.7 | 17.4 | 16.1 | 16.1 | 16.1 | 14.7 | 13.4 | 13.4 | 13.4 |
| 120° | 17.4 | 17.4 | 16.1 | 16.1 | 14.7 | 14.7 | 13.4 | 13.4 | 12.1 | 12.1 |
| 122.5° | 16.1 | 16.1 | 14.7 | 14.7 | 13.4 | 13.4 | 12.1 | 12.1 | 12.1 | 10.7 |
| 125° | 13.4 | 13.4 | 13.4 | 13.4 | 12.1 | 12.1 | 12.1 | 10.7 | 10.7 | 10.7 |
| 127.5° | 12.1 | 12.1 | 12.1 | 12.1 | 10.7 | 10.7 | 10.7 | 10.7 | 9.4 | 9.4 |
| 130° | 9.4 | 10.7 | 10.7 | 10.7 | 10.7 | 9.4 | 9.4 | 9.4 | 9.4 | 9.4 |
| 132.5° | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 |
| 135° | 5.4 | 6.7 | 6.7 | 6.7 | 6.7 | 6.7 | 6.7 | 6.7 | 6.7 | 6.7 |
| 137.5° | 4.0 | 4.0 | 5.4 | 5.4 | 5.4 | 5.4 | 5.4 | 5.4 | 5.4 | 5.4 |
| 140° | 1.4 | 2.6 | 2.6 | 2.6 | 4.0 | 4.0 | 4.0 | 4.0 | 2.6 | 2.6 |
| 142.5° | 0.0 | 0.0 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 |
| 145° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 147.5° | 0.0 | 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 |
| 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)