

Scaled data based on original data using

LM-41-14 Approved Method for Photometric Testing Of Indoor Fluorescent Luminaires

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: io LED

Report Number: P136991

Luminaire Tested: **LDSQ6A15D010TE ESQ6A15840 6LSQLWW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P136991
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P23675)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDSQ6A15D010TE ESQ6A15840 6LSQLWW1LI
Description: PORTFOLIO LED SQUARE 6 INCH 50 DEGREE CUTOFF RECESSED SINGLE WALL
WASH LUMINAIRE
SPECULAR CLEAR TRIM AND SPECULAR CLEAR KICKER
Light Source: (1) HIGH LUMEN LED 4000K
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1253.0 lumens
Efficiency: N/A
Efficacy: 55.4 lumens/watt
Spacing Criteria (0/90/45): 1.03 / 1.06 / 1.13
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

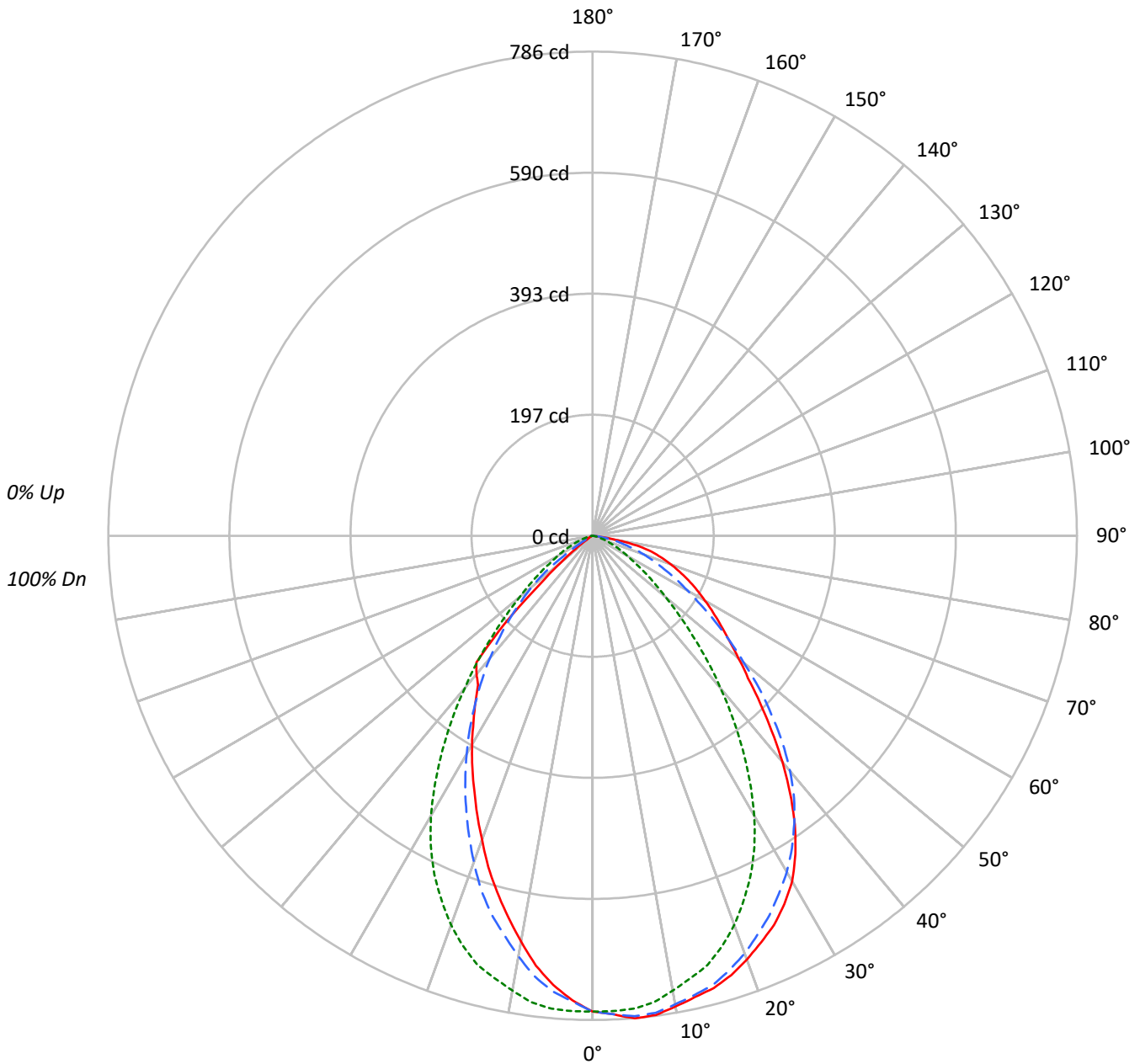
Input Watts (W): 22.6
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P136991

CATALOG NUMBER: LDSQ6A15D010TE ESQ6A15840 6LSQLWW1LI

Luminous Intensity Polar Plot





TEST NUMBER: P136991

CATALOG NUMBER: LDSQ6A15D010TE ESQ6A15840 6LSQLWW1LI

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|---|--|--|--|--|--|--|----|--|--|--|--|--|--|--|--|---|
| RF | 20 | | | | | | | | | 20 | | | | | | | | | 20 | | | | | | | | | 20 | | | | | | | | | |
| RC | 80 | | | | | | | | | 50 | | | | | | | | | 30 | | | | | | | | | 10 | | | | | | | | | 0 |
| RW | 70 | 50 | 30 | 10 | 70 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 0 | | | | | | | | | | | | | | | | |
| RCR | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 | | | | | | | | | | | | | | | | | | | |
| 1 | 111 | 108 | 104 | 102 | 109 | 106 | 103 | 100 | 101 | 99 | 97 | 98 | 96 | 94 | 94 | 93 | 91 | 89 | | | | | | | | | | | | | | | | | | | |
| 2 | 104 | 97 | 92 | 87 | 101 | 95 | 90 | 86 | 92 | 88 | 84 | 89 | 85 | 82 | 86 | 83 | 81 | 79 | | | | | | | | | | | | | | | | | | | |
| 3 | 96 | 88 | 81 | 76 | 94 | 86 | 80 | 75 | 83 | 78 | 74 | 81 | 76 | 73 | 78 | 75 | 71 | 70 | | | | | | | | | | | | | | | | | | | |
| 4 | 89 | 80 | 72 | 67 | 87 | 78 | 71 | 66 | 76 | 70 | 65 | 74 | 69 | 65 | 72 | 67 | 64 | 62 | | | | | | | | | | | | | | | | | | | |
| 5 | 83 | 72 | 65 | 59 | 81 | 71 | 64 | 59 | 69 | 63 | 58 | 68 | 62 | 58 | 66 | 61 | 57 | 55 | | | | | | | | | | | | | | | | | | | |
| 6 | 78 | 66 | 59 | 53 | 76 | 65 | 58 | 53 | 64 | 57 | 53 | 62 | 57 | 52 | 61 | 56 | 52 | 50 | | | | | | | | | | | | | | | | | | | |
| 7 | 73 | 61 | 53 | 48 | 71 | 60 | 53 | 48 | 59 | 52 | 48 | 58 | 52 | 47 | 56 | 51 | 47 | 45 | | | | | | | | | | | | | | | | | | | |
| 8 | 68 | 56 | 49 | 44 | 67 | 56 | 49 | 44 | 55 | 48 | 43 | 53 | 47 | 43 | 52 | 47 | 43 | 41 | | | | | | | | | | | | | | | | | | | |
| 9 | 64 | 52 | 45 | 40 | 63 | 52 | 45 | 40 | 51 | 44 | 40 | 50 | 44 | 40 | 49 | 43 | 39 | 38 | | | | | | | | | | | | | | | | | | | |
| 10 | 61 | 49 | 42 | 37 | 59 | 48 | 41 | 37 | 47 | 41 | 37 | 46 | 41 | 37 | 46 | 40 | 36 | 35 | | | | | | | | | | | | | | | | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° |
|-----|-------|-------|-------|
| 0° | 33252 | 33252 | 33252 |
| 5° | 33988 | 33305 | 31637 |
| 10° | 33922 | 32768 | 29240 |
| 15° | 33881 | 32156 | 26682 |
| 20° | 33539 | 30804 | 24046 |
| 25° | 33107 | 28851 | 21597 |
| 30° | 32201 | 26091 | 19459 |
| 35° | 30076 | 22328 | 17440 |
| 40° | 26934 | 18154 | 16474 |
| 45° | 23406 | 13999 | 12294 |
| 50° | 20691 | 10349 | 4468 |
| 55° | 19104 | 7642 | 1051 |
| 60° | 18135 | 5589 | 603 |
| 65° | 17523 | 4116 | 357 |
| 70° | 17020 | 2870 | 227 |
| 75° | 16353 | 1747 | 299 |
| 80° | 10017 | 868 | 446 |
| 85° | 0 | 0 | 889 |



TEST NUMBER: P136991

CATALOG NUMBER: LDSQ6A15D010TE ESQ6A15840 6LSQLWW1LI

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 72.1 | 5.8 |
| 10°-20° | 196.0 | 15.6 |
| 20°-30° | 270.0 | 21.6 |
| 30°-40° | 277.5 | 22.1 |
| 40°-50° | 216.7 | 17.3 |
| 50°-60° | 122.0 | 9.7 |
| 60°-70° | 66.3 | 5.3 |
| 70°-80° | 29.6 | 2.4 |
| 80°-90° | 2.8 | 0.2 |
| 90°-100° | 0.0 | 0.0 |
| 100°-110° | 0.0 | 0.0 |
| 110°-120° | 0.0 | 0.0 |
| 120°-130° | 0.0 | 0.0 |
| 130°-140° | 0.0 | 0.0 |
| 140°-150° | 0.0 | 0.0 |
| 150°-160° | 0.0 | 0.0 |
| 160°-170° | 0.0 | 0.0 |
| 170°-180° | 0.0 | 0.0 |
| 0°-30° | 538.1 | 42.9 |
| 0°-40° | 815.6 | 65.1 |
| 0°-60° | 1154.3 | 92.1 |
| 0°-90° | 1253.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 1253.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0° | 772 | 772 | 772 | 772 | 772 | |
| 5° | 786 | 783 | 771 | 742 | 732 | 75 |
| 15° | 760 | 755 | 721 | 635 | 599 | 214 |
| 25° | 697 | 679 | 607 | 486 | 455 | 320 |
| 35° | 572 | 570 | 425 | 332 | 332 | 355 |
| 45° | 384 | 411 | 230 | 190 | 202 | 298 |
| 55° | 254 | 242 | 102 | 58 | 14 | 229 |
| 65° | 172 | 128 | 40 | 5 | 4 | 170 |
| 75° | 98 | 51 | 10 | 2 | 2 | 99 |
| 85° | 0 | 2 | 0 | 2 | 2 | 8 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P136991

CATALOG NUMBER: LDSQ6A15D010TE ESQ6A15840 6LSQLWW1LI

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 772.3 | 772.3 | 772.3 | 772.3 | 772.3 | 772.3 | 772.3 | 772.3 | 772.3 | 772.3 | 772.3 |
| 2.5° | 777.6 | 782.9 | 781.1 | 784.6 | 786.4 | 786.4 | 786.4 | 779.4 | 781.1 | 777.6 | 777.6 |
| 5° | 786.4 | 789.9 | 788.1 | 791.7 | 793.4 | 793.4 | 793.4 | 786.4 | 788.1 | 782.9 | 782.9 |
| 7.5° | 784.6 | 788.1 | 786.4 | 789.9 | 793.4 | 793.4 | 791.7 | 786.4 | 786.4 | 781.1 | 781.1 |
| 10° | 775.9 | 779.4 | 779.4 | 781.1 | 784.6 | 784.6 | 782.9 | 777.6 | 777.6 | 772.3 | 772.3 |
| 12.5° | 767.1 | 772.3 | 770.6 | 774.1 | 775.9 | 775.9 | 775.9 | 768.8 | 768.8 | 763.6 | 763.6 |
| 15° | 760.1 | 765.3 | 763.6 | 767.1 | 768.8 | 768.8 | 767.1 | 761.8 | 760.1 | 754.8 | 754.8 |
| 17.5° | 747.8 | 753.0 | 749.5 | 753.0 | 756.5 | 754.8 | 753.0 | 747.8 | 746.0 | 739.0 | 739.0 |
| 20° | 732.0 | 735.5 | 733.7 | 735.5 | 739.0 | 739.0 | 737.2 | 730.2 | 728.5 | 721.4 | 719.7 |
| 22.5° | 714.4 | 717.9 | 716.2 | 717.9 | 721.4 | 719.7 | 717.9 | 710.9 | 707.4 | 700.4 | 698.6 |
| 25° | 696.9 | 700.4 | 698.6 | 700.4 | 703.9 | 702.1 | 698.6 | 691.6 | 688.1 | 679.3 | 677.6 |
| 27.5° | 674.0 | 677.6 | 675.8 | 679.3 | 682.8 | 681.1 | 677.6 | 670.5 | 665.3 | 654.7 | 653.0 |
| 30° | 647.7 | 651.2 | 649.5 | 651.2 | 654.7 | 654.7 | 651.2 | 646.0 | 640.7 | 630.2 | 624.9 |
| 32.5° | 612.6 | 617.9 | 616.1 | 621.4 | 624.9 | 624.9 | 624.9 | 617.9 | 612.6 | 602.1 | 595.1 |
| 35° | 572.2 | 577.5 | 575.7 | 581.0 | 586.3 | 589.8 | 591.5 | 588.0 | 584.5 | 570.5 | 561.7 |
| 37.5° | 526.6 | 531.9 | 530.1 | 537.1 | 544.2 | 549.4 | 552.9 | 551.2 | 549.4 | 537.1 | 526.6 |
| 40° | 479.2 | 482.7 | 482.7 | 488.0 | 498.5 | 505.5 | 510.8 | 510.8 | 509.0 | 498.5 | 489.7 |
| 42.5° | 430.1 | 435.3 | 435.3 | 442.3 | 451.1 | 459.9 | 463.4 | 466.9 | 468.7 | 456.4 | 447.6 |
| 45° | 384.4 | 387.9 | 387.9 | 393.2 | 403.7 | 412.5 | 417.8 | 421.3 | 423.0 | 410.7 | 402.0 |
| 47.5° | 342.3 | 345.8 | 347.6 | 354.6 | 359.8 | 366.9 | 372.1 | 373.9 | 375.6 | 366.9 | 356.3 |
| 50° | 308.9 | 310.7 | 312.4 | 317.7 | 321.2 | 326.5 | 330.0 | 331.8 | 331.8 | 319.5 | 310.7 |
| 52.5° | 279.1 | 280.9 | 280.9 | 286.1 | 289.6 | 293.1 | 293.1 | 293.1 | 291.4 | 280.9 | 266.8 |
| 55° | 254.5 | 256.3 | 256.3 | 259.8 | 261.5 | 263.3 | 261.5 | 258.0 | 254.5 | 242.2 | 228.2 |
| 57.5° | 231.7 | 233.5 | 233.5 | 235.2 | 235.2 | 235.2 | 231.7 | 228.2 | 221.2 | 207.1 | 194.8 |
| 60° | 210.6 | 212.4 | 212.4 | 214.2 | 214.2 | 212.4 | 207.1 | 200.1 | 191.3 | 177.3 | 165.0 |
| 62.5° | 191.3 | 193.1 | 193.1 | 193.1 | 193.1 | 189.6 | 182.6 | 173.8 | 163.2 | 152.7 | 140.4 |
| 65° | 172.0 | 173.8 | 172.0 | 173.8 | 172.0 | 166.8 | 158.0 | 149.2 | 138.7 | 128.1 | 117.6 |
| 67.5° | 152.7 | 154.5 | 152.7 | 152.7 | 149.2 | 143.9 | 135.2 | 126.4 | 117.6 | 107.1 | 96.5 |
| 70° | 135.2 | 135.2 | 133.4 | 131.6 | 126.4 | 121.1 | 112.3 | 105.3 | 96.5 | 87.8 | 79.0 |
| 72.5° | 115.9 | 117.6 | 114.1 | 110.6 | 105.3 | 98.3 | 91.3 | 84.3 | 77.2 | 68.5 | 61.4 |
| 75° | 98.3 | 98.3 | 93.0 | 89.5 | 84.3 | 79.0 | 72.0 | 64.9 | 57.9 | 50.9 | 45.6 |
| 77.5° | 73.7 | 73.7 | 68.5 | 66.7 | 61.4 | 57.9 | 50.9 | 45.6 | 40.4 | 36.9 | 31.6 |
| 80° | 40.4 | 40.4 | 38.6 | 36.9 | 35.1 | 33.4 | 29.8 | 28.1 | 24.6 | 21.1 | 17.6 |
| 82.5° | 10.5 | 10.5 | 10.5 | 10.5 | 10.5 | 10.5 | 10.5 | 10.5 | 10.5 | 8.8 | 7.0 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.8 | 1.8 | 0.0 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



TEST NUMBER: P136991

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CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° | 95° | 100° | 105° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 772.3 | 772.3 | 772.3 | 772.3 | 772.3 | 772.3 | 772.3 | 772.3 | 772.3 | 772.3 | 772.3 |
| 2.5° | 775.9 | 779.4 | 774.1 | 779.4 | 777.6 | 767.1 | 777.6 | 772.3 | 768.8 | 772.3 | 767.1 |
| 5° | 781.1 | 782.9 | 777.6 | 782.9 | 779.4 | 768.8 | 775.9 | 770.6 | 767.1 | 768.8 | 761.8 |
| 7.5° | 779.4 | 781.1 | 775.9 | 779.4 | 774.1 | 763.6 | 770.6 | 763.6 | 758.3 | 758.3 | 749.5 |
| 10° | 770.6 | 772.3 | 765.3 | 768.8 | 763.6 | 751.3 | 758.3 | 749.5 | 744.3 | 740.8 | 732.0 |
| 12.5° | 761.8 | 761.8 | 756.5 | 758.3 | 753.0 | 740.8 | 744.3 | 735.5 | 728.5 | 725.0 | 712.7 |
| 15° | 751.3 | 751.3 | 746.0 | 747.8 | 740.8 | 728.5 | 732.0 | 721.4 | 712.7 | 707.4 | 693.4 |
| 17.5° | 735.5 | 735.5 | 728.5 | 730.2 | 721.4 | 709.2 | 712.7 | 698.6 | 689.8 | 681.1 | 667.0 |
| 20° | 714.4 | 712.7 | 705.6 | 705.6 | 696.9 | 682.8 | 686.3 | 672.3 | 660.0 | 651.2 | 635.4 |
| 22.5° | 693.4 | 689.8 | 682.8 | 681.1 | 670.5 | 654.7 | 656.5 | 640.7 | 628.4 | 617.9 | 600.3 |
| 25° | 668.8 | 663.5 | 654.7 | 651.2 | 640.7 | 624.9 | 624.9 | 607.3 | 595.1 | 581.0 | 563.5 |
| 27.5° | 644.2 | 637.2 | 624.9 | 619.6 | 605.6 | 588.0 | 586.3 | 568.7 | 554.7 | 540.6 | 521.3 |
| 30° | 614.4 | 605.6 | 589.8 | 582.8 | 567.0 | 547.7 | 542.4 | 524.8 | 509.0 | 493.2 | 477.5 |
| 32.5° | 581.0 | 570.5 | 552.9 | 542.4 | 523.1 | 502.0 | 496.8 | 475.7 | 461.7 | 445.9 | 428.3 |
| 35° | 545.9 | 531.9 | 512.6 | 498.5 | 477.5 | 456.4 | 445.9 | 424.8 | 410.7 | 394.9 | 380.9 |
| 37.5° | 509.0 | 491.5 | 468.7 | 452.9 | 428.3 | 409.0 | 394.9 | 373.9 | 359.8 | 345.8 | 333.5 |
| 40° | 470.4 | 449.4 | 424.8 | 403.7 | 379.2 | 359.8 | 344.0 | 323.0 | 310.7 | 298.4 | 287.9 |
| 42.5° | 428.3 | 405.5 | 379.2 | 356.3 | 330.0 | 310.7 | 293.1 | 275.6 | 263.3 | 251.0 | 242.2 |
| 45° | 382.7 | 359.8 | 331.8 | 308.9 | 282.6 | 263.3 | 247.5 | 229.9 | 219.4 | 208.9 | 201.9 |
| 47.5° | 335.3 | 314.2 | 286.1 | 263.3 | 238.7 | 221.2 | 205.4 | 189.6 | 179.0 | 172.0 | 166.8 |
| 50° | 289.6 | 268.6 | 244.0 | 221.2 | 198.4 | 182.6 | 168.5 | 154.5 | 145.7 | 138.7 | 133.4 |
| 52.5° | 247.5 | 228.2 | 205.4 | 186.1 | 165.0 | 149.2 | 136.9 | 126.4 | 117.6 | 110.6 | 105.3 |
| 55° | 210.6 | 193.1 | 172.0 | 154.5 | 136.9 | 122.9 | 112.3 | 101.8 | 94.8 | 86.0 | 80.7 |
| 57.5° | 177.3 | 161.5 | 143.9 | 128.1 | 110.6 | 100.1 | 91.3 | 80.7 | 73.7 | 68.5 | 61.4 |
| 60° | 151.0 | 136.9 | 119.4 | 105.3 | 91.3 | 82.5 | 73.7 | 64.9 | 59.7 | 52.7 | 47.4 |
| 62.5° | 126.4 | 114.1 | 100.1 | 86.0 | 73.7 | 66.7 | 59.7 | 52.7 | 45.6 | 40.4 | 35.1 |
| 65° | 105.3 | 93.0 | 80.7 | 68.5 | 59.7 | 52.7 | 47.4 | 40.4 | 35.1 | 29.8 | 24.6 |
| 67.5° | 86.0 | 75.5 | 63.2 | 54.4 | 47.4 | 42.1 | 36.9 | 29.8 | 26.3 | 21.1 | 17.6 |
| 70° | 68.5 | 59.7 | 49.1 | 42.1 | 36.9 | 31.6 | 26.3 | 22.8 | 17.6 | 14.0 | 10.5 |
| 72.5° | 52.7 | 45.6 | 36.9 | 31.6 | 28.1 | 22.8 | 19.3 | 15.8 | 12.3 | 10.5 | 7.0 |
| 75° | 38.6 | 31.6 | 26.3 | 22.8 | 19.3 | 15.8 | 12.3 | 10.5 | 8.8 | 5.3 | 3.5 |
| 77.5° | 26.3 | 21.1 | 17.6 | 14.0 | 12.3 | 10.5 | 7.0 | 7.0 | 5.3 | 3.5 | 1.8 |
| 80° | 15.8 | 10.5 | 8.8 | 7.0 | 5.3 | 5.3 | 3.5 | 3.5 | 1.8 | 1.8 | 0.0 |
| 82.5° | 5.3 | 3.5 | 1.8 | 1.8 | 1.8 | 1.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



TEST NUMBER: P136991

CATALOG NUMBER: LDSQ6A15D010TE ESQ6A15840 6LSQLWW1LI

CANDELA DISTRIBUTION (continued):

| | 110° | 115° | 120° | 125° | 130° | 135° | 140° | 145° | 150° | 155° | 160° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 772.3 | 772.3 | 772.3 | 772.3 | 772.3 | 772.3 | 772.3 | 772.3 | 772.3 | 772.3 | 772.3 |
| 2.5° | 760.1 | 763.6 | 760.1 | 763.6 | 763.6 | 756.5 | 758.3 | 758.3 | 753.0 | 753.0 | 754.8 |
| 5° | 753.0 | 753.0 | 749.5 | 751.3 | 751.3 | 742.5 | 742.5 | 742.5 | 735.5 | 733.7 | 733.7 |
| 7.5° | 740.8 | 739.0 | 732.0 | 732.0 | 730.2 | 721.4 | 717.9 | 716.2 | 709.2 | 707.4 | 705.6 |
| 10° | 721.4 | 717.9 | 709.2 | 707.4 | 703.9 | 693.4 | 688.1 | 684.6 | 677.6 | 674.0 | 674.0 |
| 12.5° | 700.4 | 696.9 | 686.3 | 682.8 | 675.8 | 663.5 | 658.2 | 654.7 | 644.2 | 638.9 | 638.9 |
| 15° | 679.3 | 674.0 | 661.8 | 654.7 | 647.7 | 635.4 | 628.4 | 623.1 | 612.6 | 607.3 | 605.6 |
| 17.5° | 651.2 | 644.2 | 631.9 | 623.1 | 614.4 | 602.1 | 595.1 | 586.3 | 577.5 | 572.2 | 568.7 |
| 20° | 617.9 | 609.1 | 593.3 | 586.3 | 577.5 | 563.5 | 554.7 | 549.4 | 538.9 | 533.6 | 531.9 |
| 22.5° | 582.8 | 572.2 | 556.4 | 547.7 | 537.1 | 524.8 | 519.6 | 510.8 | 502.0 | 498.5 | 495.0 |
| 25° | 544.2 | 535.4 | 517.8 | 509.0 | 498.5 | 486.2 | 481.0 | 473.9 | 466.9 | 465.2 | 459.9 |
| 27.5° | 502.0 | 493.2 | 479.2 | 468.7 | 459.9 | 447.6 | 442.3 | 437.1 | 430.1 | 428.3 | 426.5 |
| 30° | 458.1 | 449.4 | 435.3 | 426.5 | 417.8 | 409.0 | 403.7 | 398.5 | 393.2 | 393.2 | 393.2 |
| 32.5° | 412.5 | 403.7 | 393.2 | 384.4 | 377.4 | 370.4 | 366.9 | 361.6 | 358.1 | 359.8 | 361.6 |
| 35° | 365.1 | 359.8 | 349.3 | 344.0 | 338.8 | 331.8 | 330.0 | 326.5 | 323.0 | 324.7 | 324.7 |
| 37.5° | 319.5 | 316.0 | 308.9 | 303.7 | 300.2 | 294.9 | 294.9 | 291.4 | 287.9 | 291.4 | 291.4 |
| 40° | 275.6 | 272.1 | 266.8 | 265.1 | 261.5 | 259.8 | 258.0 | 258.0 | 256.3 | 259.8 | 266.8 |
| 42.5° | 233.5 | 231.7 | 228.2 | 226.4 | 224.7 | 222.9 | 224.7 | 224.7 | 228.2 | 240.5 | 254.5 |
| 45° | 194.8 | 194.8 | 191.3 | 191.3 | 189.6 | 189.6 | 191.3 | 196.6 | 207.1 | 221.2 | 222.9 |
| 47.5° | 159.7 | 159.7 | 156.2 | 156.2 | 156.2 | 156.2 | 163.2 | 172.0 | 170.3 | 163.2 | 147.4 |
| 50° | 128.1 | 126.4 | 124.6 | 124.6 | 124.6 | 128.1 | 131.6 | 121.1 | 107.1 | 91.3 | 82.5 |
| 52.5° | 100.1 | 96.5 | 94.8 | 94.8 | 96.5 | 96.5 | 86.0 | 70.2 | 59.7 | 54.4 | 47.4 |
| 55° | 75.5 | 72.0 | 68.5 | 68.5 | 66.7 | 57.9 | 45.6 | 40.4 | 31.6 | 28.1 | 24.6 |
| 57.5° | 54.4 | 52.7 | 47.4 | 43.9 | 36.9 | 29.8 | 24.6 | 17.6 | 15.8 | 12.3 | 10.5 |
| 60° | 40.4 | 36.9 | 31.6 | 26.3 | 21.1 | 15.8 | 10.5 | 8.8 | 8.8 | 7.0 | 7.0 |
| 62.5° | 29.8 | 26.3 | 21.1 | 15.8 | 10.5 | 7.0 | 7.0 | 7.0 | 5.3 | 5.3 | 5.3 |
| 65° | 21.1 | 17.6 | 12.3 | 8.8 | 5.3 | 5.3 | 5.3 | 5.3 | 5.3 | 3.5 | 3.5 |
| 67.5° | 14.0 | 10.5 | 5.3 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 |
| 70° | 8.8 | 5.3 | 1.8 | 3.5 | 1.8 | 1.8 | 3.5 | 3.5 | 3.5 | 3.5 | 1.8 |
| 72.5° | 3.5 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 |
| 75° | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 |
| 77.5° | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 |
| 80° | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 |
| 82.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.8 | 1.8 | 1.8 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.8 | 1.8 | 0.0 | 0.0 | 0.0 | 1.8 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



TEST NUMBER: P136991

CATALOG NUMBER: LDSQ6A15D010TE ESQ6A15840 6LSQLWW1LI

CANDELA DISTRIBUTION (continued):

| | 165° | 170° | 175° | 180° |
|-------|-------|-------|-------|-------|
| 0° | 772.3 | 772.3 | 772.3 | 772.3 |
| 2.5° | 751.3 | 751.3 | 753.0 | 754.8 |
| 5° | 730.2 | 732.0 | 732.0 | 732.0 |
| 7.5° | 702.1 | 702.1 | 703.9 | 703.9 |
| 10° | 667.0 | 667.0 | 668.8 | 668.8 |
| 12.5° | 633.7 | 631.9 | 633.7 | 633.7 |
| 15° | 600.3 | 598.6 | 598.6 | 598.6 |
| 17.5° | 563.5 | 561.7 | 561.7 | 563.5 |
| 20° | 526.6 | 524.8 | 524.8 | 524.8 |
| 22.5° | 489.7 | 489.7 | 489.7 | 489.7 |
| 25° | 456.4 | 454.6 | 454.6 | 454.6 |
| 27.5° | 423.0 | 423.0 | 423.0 | 423.0 |
| 30° | 389.7 | 389.7 | 391.4 | 391.4 |
| 32.5° | 359.8 | 359.8 | 359.8 | 359.8 |
| 35° | 324.7 | 328.2 | 330.0 | 331.8 |
| 37.5° | 293.1 | 298.4 | 303.7 | 305.4 |
| 40° | 273.8 | 284.4 | 291.4 | 293.1 |
| 42.5° | 265.1 | 273.8 | 277.3 | 279.1 |
| 45° | 217.7 | 208.9 | 203.6 | 201.9 |
| 47.5° | 133.4 | 121.1 | 114.1 | 112.3 |
| 50° | 77.2 | 72.0 | 68.5 | 66.7 |
| 52.5° | 42.1 | 36.9 | 35.1 | 35.1 |
| 55° | 21.1 | 17.6 | 15.8 | 14.0 |
| 57.5° | 8.8 | 8.8 | 8.8 | 8.8 |
| 60° | 7.0 | 7.0 | 7.0 | 7.0 |
| 62.5° | 5.3 | 5.3 | 5.3 | 5.3 |
| 65° | 3.5 | 3.5 | 3.5 | 3.5 |
| 67.5° | 3.5 | 3.5 | 3.5 | 3.5 |
| 70° | 1.8 | 1.8 | 1.8 | 1.8 |
| 72.5° | 1.8 | 1.8 | 1.8 | 1.8 |
| 75° | 1.8 | 1.8 | 1.8 | 1.8 |
| 77.5° | 1.8 | 1.8 | 1.8 | 1.8 |
| 80° | 1.8 | 1.8 | 1.8 | 1.8 |
| 82.5° | 1.8 | 1.8 | 0.0 | 1.8 |
| 85° | 1.8 | 1.8 | 1.8 | 1.8 |
| 87.5° | 0.0 | 1.8 | 0.0 | 1.8 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 |



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— 0°-180° - - 45°-225° - - - - 90°-270°













(END OF REPORT)