

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: PORTFOLIO

Report Number: P1306660

Luminaire Tested: LDSQA3D02R309024DE010 3LSQCA45R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1306660
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-76)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D02R309024DE010 3LSQCA45R 1MW
Description: 3in Adjustable LED luminaire with, R30 optic, 2400K CCT AND, 90CRI , 3LSQCA45R 1MW TRIM
Light Source: -
Ballast/Driver: -

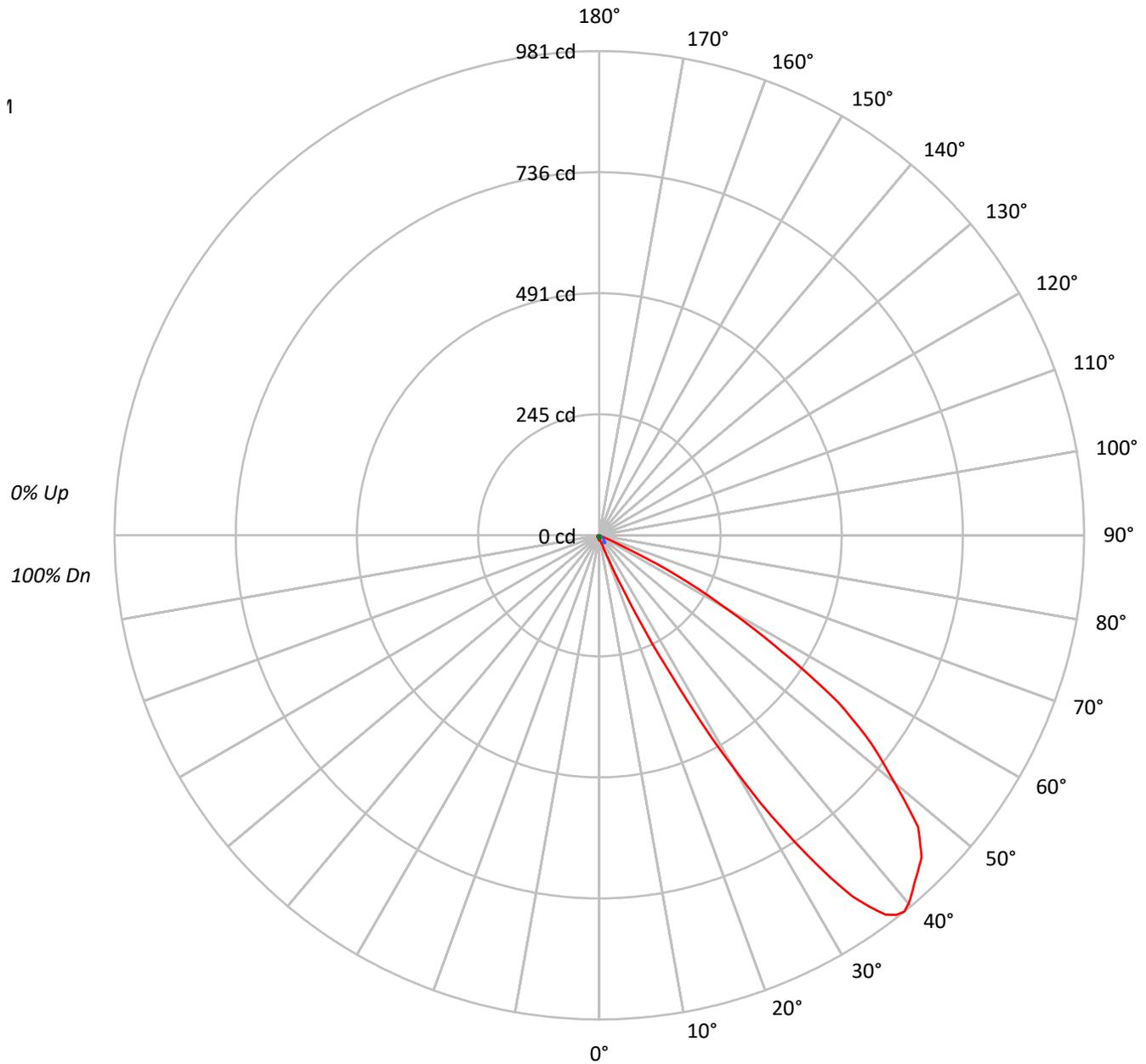
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 255.0 lumens
Efficiency: N/A
Efficacy: 70.8 lumens/watt
Spacing Criteria (0/90/45): 4.07 / 0.66 / 1.44
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 3.6
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: 24 FT

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Luminous Intensity Polar Plot



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



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

| | | | | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| RF | 20 | | | | 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 | 50 | 30 | 10 | 0 |
| RCR | | | | | | | | | | | | | | | | | | | | | |
| 0 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 102 | 102 | 102 | 100 |
| 1 | 110 | 106 | 102 | 99 | 108 | 104 | 100 | 97 | 100 | 97 | 94 | 96 | 93 | 91 | 92 | 90 | 89 | 89 | 89 | 89 | 87 |
| 2 | 100 | 93 | 86 | 81 | 98 | 91 | 85 | 80 | 87 | 83 | 78 | 84 | 80 | 77 | 81 | 78 | 75 | 75 | 75 | 75 | 73 |
| 3 | 91 | 81 | 73 | 67 | 89 | 79 | 72 | 66 | 76 | 70 | 65 | 74 | 68 | 64 | 71 | 67 | 63 | 63 | 63 | 63 | 61 |
| 4 | 83 | 71 | 62 | 55 | 80 | 69 | 61 | 55 | 67 | 60 | 54 | 64 | 58 | 53 | 62 | 57 | 52 | 52 | 52 | 52 | 50 |
| 5 | 75 | 62 | 52 | 46 | 73 | 60 | 52 | 45 | 58 | 51 | 45 | 56 | 50 | 44 | 54 | 49 | 44 | 44 | 44 | 44 | 42 |
| 6 | 68 | 54 | 45 | 38 | 66 | 53 | 44 | 38 | 51 | 43 | 37 | 49 | 42 | 37 | 48 | 42 | 37 | 37 | 37 | 37 | 35 |
| 7 | 62 | 48 | 38 | 32 | 60 | 47 | 38 | 32 | 45 | 37 | 31 | 44 | 36 | 31 | 42 | 36 | 31 | 31 | 31 | 31 | 29 |
| 8 | 56 | 42 | 33 | 27 | 55 | 41 | 33 | 27 | 40 | 32 | 26 | 39 | 32 | 26 | 37 | 31 | 26 | 26 | 26 | 26 | 24 |
| 9 | 52 | 37 | 29 | 23 | 50 | 37 | 28 | 23 | 36 | 28 | 22 | 34 | 27 | 22 | 33 | 27 | 22 | 22 | 22 | 22 | 20 |
| 10 | 48 | 33 | 25 | 19 | 46 | 33 | 25 | 19 | 32 | 24 | 19 | 31 | 24 | 19 | 30 | 24 | 19 | 19 | 19 | 19 | 17 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° | 135° | 180° |
|-----|--------|------|------|------|------|
| 0° | 1705 | 1705 | 1705 | 1705 | 1705 |
| 5° | 1815 | 1781 | 1677 | 1521 | 1487 |
| 10° | 1994 | 1766 | 1469 | 1312 | 1277 |
| 15° | 2906 | 1765 | 1230 | 1105 | 1141 |
| 20° | 7331 | 1924 | 953 | 953 | 1063 |
| 25° | 33996 | 2413 | 741 | 855 | 988 |
| 30° | 108243 | 3341 | 557 | 815 | 974 |
| 35° | 187833 | 4058 | 442 | 778 | 988 |
| 40° | 219043 | 4047 | 337 | 764 | 1012 |
| 45° | 224659 | 2874 | 365 | 828 | 1096 |
| 50° | 208906 | 1608 | 295 | 857 | 1259 |
| 55° | 177544 | 841 | 330 | 961 | 1411 |
| 60° | 102541 | 207 | 379 | 1033 | 1550 |
| 65° | 20905 | 0 | 448 | 1223 | 1752 |
| 70° | 302 | 101 | 554 | 1410 | 2065 |
| 75° | 266 | 133 | 599 | 1397 | 2462 |
| 80° | 198 | 198 | 893 | 1686 | 2777 |
| 85° | 0 | 395 | 1778 | 1778 | 3359 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 224659 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------------|--------------|--------------|
| 0°-10° | 0.9 | 0.4 |
| 10°-20° | 2.6 | 1.0 |
| 20°-30° | 14.7 | 5.8 |
| 30°-40° | 68.7 | 26.9 |
| 40°-50° | 97.1 | 38.1 |
| 50°-60° | 59.7 | 23.4 |
| 60°-70° | 9.1 | 3.6 |
| 70°-80° | 1.4 | 0.6 |
| 80°-90° | 0.7 | 0.3 |
| 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° | 18.2 | 7.1 |
| 0°-40° | 86.9 | 34.1 |
| 0°-60° | 243.7 | 95.6 |
| 0°-90° | 255.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 255.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0° | 10 | 10 | 10 | 10 | 10 | |
| 5° | 10 | 10 | 10 | 9 | 9 | 1 |
| 15° | 16 | 10 | 7 | 6 | 6 | 6 |
| 25° | 179 | 13 | 4 | 4 | 5 | 110 |
| 35° | 893 | 19 | 2 | 4 | 5 | 536 |
| 45° | 922 | 12 | 2 | 3 | 4 | 699 |
| 55° | 591 | 3 | 1 | 3 | 5 | 503 |
| 65° | 51 | 0 | 1 | 3 | 4 | 93 |
| 75° | 0 | 0 | 1 | 2 | 4 | 0 |
| 85° | 0 | 0 | 1 | 1 | 2 | 0 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P1306660

CATALOG NUMBER: LDSQA3D02R309024DE010 3LSQCA45R 1MW

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° |
|-------|-------|-------|-------|-------|-------|-------|------|-------|-----|--------|------|
| 0° | 9.9 | 9.9 | 9.9 | 9.9 | 9.9 | 9.9 | 9.9 | 9.9 | 9.9 | 9.9 | 9.9 |
| 2.5° | 10.1 | 10.1 | 10.3 | 10.3 | 10.1 | 10.3 | 10.3 | 10.3 | 9.9 | 9.7 | 9.2 |
| 5° | 10.5 | 10.5 | 10.5 | 10.7 | 10.5 | 10.5 | 10.3 | 10.1 | 9.7 | 9.0 | 8.8 |
| 7.5° | 11.0 | 11.0 | 10.7 | 11.0 | 10.7 | 10.7 | 10.3 | 9.9 | 9.2 | 8.6 | 8.2 |
| 10° | 11.4 | 11.4 | 11.2 | 11.2 | 11.0 | 11.0 | 10.1 | 9.5 | 8.4 | 7.7 | 7.5 |
| 12.5° | 12.7 | 12.7 | 12.5 | 12.2 | 11.8 | 11.6 | 9.9 | 8.8 | 7.5 | 6.9 | 6.7 |
| 15° | 16.3 | 16.1 | 15.7 | 15.0 | 14.0 | 13.7 | 9.9 | 8.2 | 6.9 | 6.2 | 6.2 |
| 17.5° | 22.3 | 22.1 | 21.5 | 19.8 | 17.8 | 17.2 | 9.9 | 7.3 | 6.0 | 5.6 | 5.6 |
| 20° | 40.0 | 38.2 | 35.0 | 30.7 | 26.2 | 23.8 | 10.5 | 6.4 | 5.2 | 4.9 | 5.2 |
| 21° | 52.2 | 50.5 | 46.4 | 39.3 | 31.4 | 28.8 | 11.0 | 6.2 | 4.9 | 4.7 | 5.2 |
| 22° | 71.1 | 69.2 | 60.8 | 51.1 | 39.7 | 35.2 | 11.2 | 5.8 | 4.5 | 4.5 | 4.9 |
| 23° | 99.2 | 96.0 | 81.8 | 66.4 | 49.6 | 43.2 | 11.6 | 5.6 | 4.3 | 4.5 | 4.7 |
| 24° | 130.0 | 127.2 | 111.1 | 87.9 | 63.4 | 54.1 | 12.0 | 5.4 | 4.1 | 4.1 | 4.5 |
| 25° | 178.9 | 175.7 | 147.1 | 110.8 | 80.3 | 65.1 | 12.7 | 4.9 | 3.9 | 3.9 | 4.5 |
| 26° | 242.3 | 227.5 | 189.5 | 142.8 | 99.0 | 81.6 | 13.3 | 4.7 | 3.7 | 3.9 | 4.3 |
| 27° | 302.4 | 290.2 | 247.5 | 183.2 | 122.4 | 100.3 | 14.2 | 4.5 | 3.4 | 3.7 | 4.3 |
| 28° | 381.5 | 364.3 | 310.4 | 231.8 | 154.2 | 121.4 | 15.0 | 4.3 | 3.2 | 3.7 | 4.1 |
| 29° | 470.0 | 445.9 | 380.8 | 286.3 | 190.1 | 145.0 | 15.9 | 4.1 | 3.0 | 3.4 | 4.1 |
| 30° | 544.3 | 521.8 | 456.7 | 351.0 | 231.3 | 176.1 | 16.8 | 3.9 | 2.8 | 3.4 | 4.1 |
| 31° | 631.5 | 597.4 | 518.5 | 405.8 | 266.8 | 207.3 | 17.6 | 3.4 | 2.6 | 3.2 | 3.9 |
| 32° | 702.2 | 678.3 | 594.6 | 467.6 | 313.4 | 241.7 | 18.3 | 3.2 | 2.6 | 3.2 | 3.9 |
| 33° | 770.5 | 738.5 | 657.5 | 526.9 | 355.5 | 276.9 | 18.9 | 3.0 | 2.4 | 3.0 | 3.9 |
| 34° | 835.8 | 806.4 | 717.0 | 574.8 | 395.2 | 310.4 | 19.3 | 2.6 | 2.4 | 3.0 | 3.7 |
| 35° | 893.4 | 859.2 | 769.4 | 621.6 | 436.0 | 340.9 | 19.3 | 2.4 | 2.1 | 2.8 | 3.7 |
| 36° | 930.7 | 906.2 | 815.0 | 667.8 | 473.0 | 369.9 | 19.3 | 2.1 | 1.9 | 2.8 | 3.4 |
| 37° | 962.7 | 934.2 | 851.5 | 703.3 | 500.3 | 393.1 | 19.3 | 1.9 | 1.9 | 2.8 | 3.4 |
| 38° | 975.8 | 951.4 | 876.6 | 734.6 | 525.8 | 416.7 | 19.1 | 1.7 | 1.7 | 2.6 | 3.4 |
| 39° | 981.0 | 959.1 | 895.5 | 757.2 | 544.7 | 432.6 | 18.7 | 1.5 | 1.7 | 2.6 | 3.4 |
| 40° | 974.3 | 957.8 | 905.2 | 771.8 | 559.8 | 444.2 | 18.0 | 1.3 | 1.5 | 2.6 | 3.4 |
| 42.5° | 946.8 | 935.9 | 903.0 | 786.4 | 572.7 | 452.8 | 15.7 | 0.9 | 1.5 | 2.4 | 3.4 |
| 45° | 922.4 | 910.3 | 881.3 | 771.1 | 555.9 | 435.8 | 11.8 | 0.4 | 1.5 | 2.4 | 3.4 |
| 47.5° | 874.9 | 867.4 | 844.6 | 732.3 | 519.2 | 397.6 | 8.4 | 0.2 | 1.3 | 2.1 | 3.2 |
| 50° | 779.7 | 772.6 | 742.6 | 635.8 | 446.6 | 336.2 | 6.0 | 0.2 | 1.1 | 2.1 | 3.2 |
| 52.5° | 694.5 | 686.9 | 643.8 | 528.6 | 343.0 | 246.4 | 3.9 | 0.2 | 1.1 | 2.1 | 3.2 |
| 55° | 591.3 | 578.2 | 521.5 | 401.2 | 243.2 | 165.2 | 2.8 | 0.2 | 1.1 | 1.9 | 3.2 |
| 57.5° | 437.8 | 418.6 | 368.0 | 273.7 | 140.1 | 89.6 | 1.5 | 0.2 | 1.1 | 1.9 | 3.2 |
| 60° | 297.7 | 286.3 | 230.3 | 144.3 | 59.7 | 37.8 | 0.6 | 0.2 | 1.1 | 1.9 | 3.0 |
| 62.5° | 180.4 | 166.0 | 115.8 | 61.4 | 25.8 | 17.2 | 0.0 | 0.4 | 1.1 | 1.9 | 3.0 |
| 65° | 51.3 | 45.5 | 30.3 | 14.0 | 7.3 | 5.6 | 0.0 | 0.4 | 1.1 | 1.9 | 3.0 |
| 67.5° | 1.7 | 1.7 | 1.7 | 1.5 | 1.1 | 1.1 | 0.2 | 0.4 | 1.1 | 1.9 | 2.8 |
| 70° | 0.6 | 0.6 | 0.6 | 0.4 | 0.4 | 0.2 | 0.2 | 0.4 | 1.1 | 1.7 | 2.8 |
| 72.5° | 0.4 | 0.4 | 0.4 | 0.4 | 0.2 | 0.2 | 0.2 | 0.4 | 0.9 | 1.5 | 2.6 |
| 75° | 0.4 | 0.4 | 0.4 | 0.2 | 0.2 | 0.2 | 0.2 | 0.6 | 0.9 | 1.5 | 2.1 |
| 77.5° | 0.4 | 0.4 | 0.4 | 0.2 | 0.2 | 0.2 | 0.2 | 0.6 | 0.9 | 1.3 | 2.1 |
| 80° | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.6 | 0.9 | 1.3 | 1.7 |



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CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° |
|-------|-----|-----|-----|-----|-----|-------|-----|-------|-----|--------|------|
| 82.5° | 0.2 | 0.2 | 0.2 | 0.0 | 0.0 | 0.0 | 0.2 | 0.6 | 0.9 | 0.9 | 1.3 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.2 | 0.6 | 0.9 | 0.6 | 0.9 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.2 | 0.6 | 0.6 | 0.6 | 0.4 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



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CATALOG NUMBER: LDSQA3D02R309024DE010 3LSQCA45R 1MW

CANDELA DISTRIBUTION (continued):

| | 157.5° | 180° |
|-------|--------|------|
| 0° | 9.9 | 9.9 |
| 2.5° | 9.2 | 9.2 |
| 5° | 8.6 | 8.6 |
| 7.5° | 7.9 | 7.9 |
| 10° | 7.3 | 7.3 |
| 12.5° | 6.9 | 6.9 |
| 15° | 6.2 | 6.4 |
| 17.5° | 5.8 | 6.0 |
| 20° | 5.6 | 5.8 |
| 21° | 5.6 | 5.8 |
| 22° | 5.4 | 5.6 |
| 23° | 5.4 | 5.6 |
| 24° | 5.2 | 5.4 |
| 25° | 4.9 | 5.2 |
| 26° | 4.9 | 5.2 |
| 27° | 4.9 | 5.2 |
| 28° | 4.7 | 5.2 |
| 29° | 4.7 | 4.9 |
| 30° | 4.7 | 4.9 |
| 31° | 4.5 | 4.9 |
| 32° | 4.5 | 4.9 |
| 33° | 4.5 | 4.7 |
| 34° | 4.3 | 4.7 |
| 35° | 4.3 | 4.7 |
| 36° | 4.3 | 4.7 |
| 37° | 4.3 | 4.5 |
| 38° | 4.3 | 4.7 |
| 39° | 4.3 | 4.5 |
| 40° | 4.3 | 4.5 |
| 42.5° | 4.3 | 4.5 |
| 45° | 4.3 | 4.5 |
| 47.5° | 4.3 | 4.7 |
| 50° | 4.3 | 4.7 |
| 52.5° | 4.3 | 4.7 |
| 55° | 4.3 | 4.7 |
| 57.5° | 4.3 | 4.5 |
| 60° | 4.3 | 4.5 |
| 62.5° | 4.1 | 4.5 |
| 65° | 4.1 | 4.3 |
| 67.5° | 4.1 | 4.3 |
| 70° | 3.9 | 4.1 |
| 72.5° | 3.7 | 3.9 |
| 75° | 3.2 | 3.7 |
| 77.5° | 3.0 | 3.2 |
| 80° | 2.6 | 2.8 |



TEST NUMBER: P1306660
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CANDELA DISTRIBUTION (continued):

| | 157.5° | 180° |
|-------|--------|------|
| 82.5° | 2.1 | 2.1 |
| 85° | 1.5 | 1.7 |
| 87.5° | 0.9 | 0.9 |
| 90° | 0.0 | 0.0 |

(END OF REPORT)