

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: P1317768

Luminaire Tested: LDSQA3D20R309827D010 3LSQCA45R 1MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1317768
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: LDSQA3D20R309827D010 3LSQCA45R 1MMS
Description: 3in Adjustable LED luminaire with, R30 optic, 2700K CCT AND, 98CRI , 3LSQCA45R 1MMS TRII
Light Source: -
Ballast/Driver: -

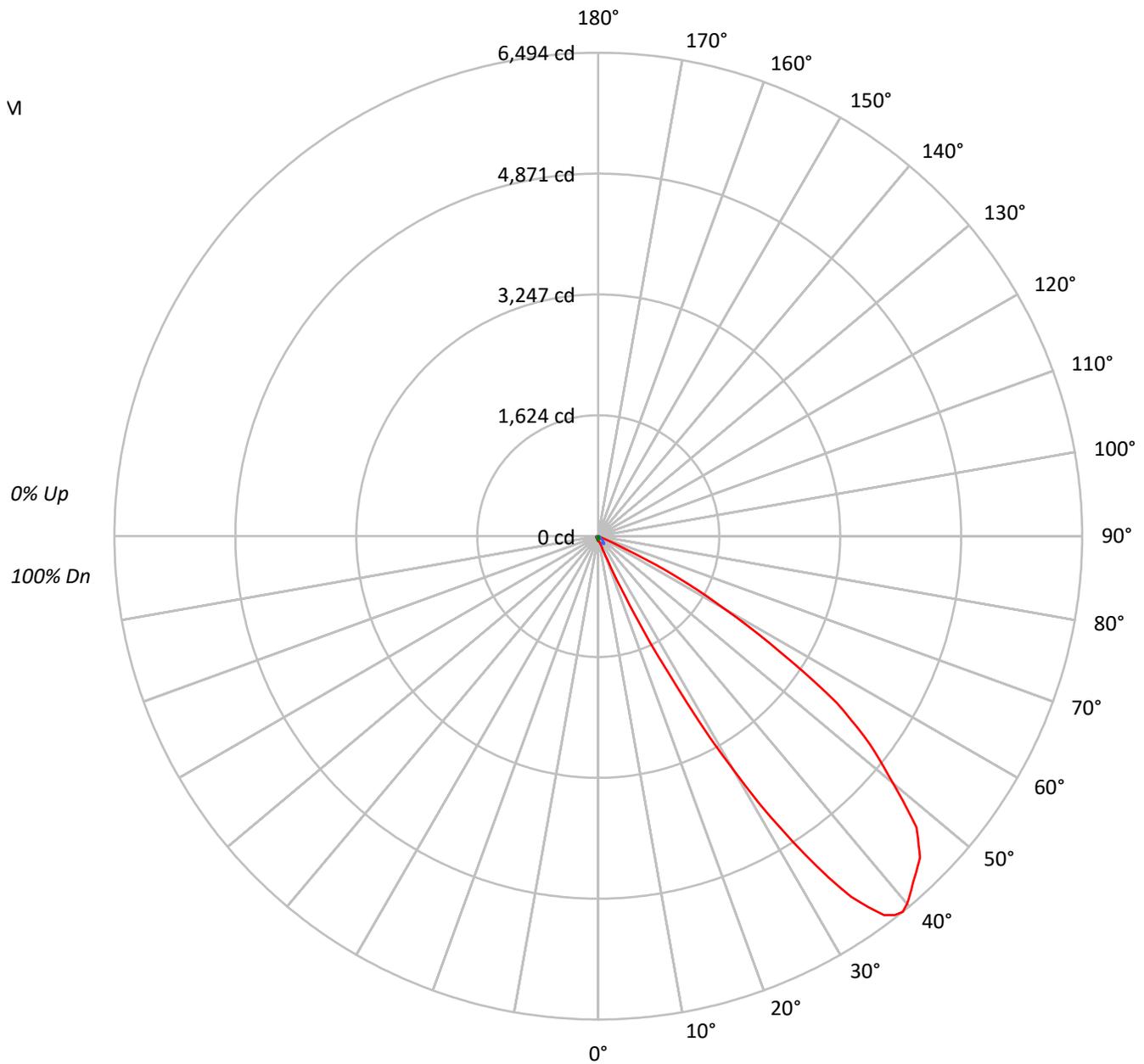
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1688.0 lumens
Efficiency: N/A
Efficacy: 61.6 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): 27.4
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 | | | |
| 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 |
| RCR | | | | | | | | | | | | | | | | | | | | |
| 0 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 | 100 | 100 |
| 1 | 110 | 106 | 102 | 99 | 108 | 104 | 100 | 97 | 100 | 97 | 94 | 96 | 93 | 91 | 92 | 90 | 89 | 87 | 87 | 87 |
| 2 | 100 | 93 | 86 | 81 | 98 | 91 | 85 | 80 | 87 | 83 | 78 | 84 | 80 | 77 | 81 | 78 | 75 | 73 | 73 | 73 |
| 3 | 91 | 81 | 73 | 67 | 89 | 79 | 72 | 66 | 76 | 70 | 65 | 74 | 68 | 64 | 71 | 67 | 63 | 61 | 61 | 61 |
| 4 | 83 | 71 | 62 | 55 | 80 | 69 | 61 | 55 | 67 | 60 | 54 | 64 | 58 | 53 | 62 | 57 | 52 | 50 | 50 | 50 |
| 5 | 75 | 62 | 52 | 46 | 73 | 60 | 52 | 45 | 58 | 51 | 45 | 56 | 50 | 44 | 54 | 49 | 44 | 42 | 42 | 42 |
| 6 | 68 | 54 | 45 | 38 | 66 | 53 | 44 | 38 | 51 | 43 | 37 | 49 | 42 | 37 | 48 | 42 | 37 | 35 | 35 | 35 |
| 7 | 62 | 48 | 38 | 32 | 60 | 47 | 38 | 32 | 45 | 37 | 31 | 44 | 36 | 31 | 42 | 36 | 31 | 29 | 29 | 29 |
| 8 | 56 | 42 | 33 | 27 | 55 | 41 | 33 | 27 | 40 | 32 | 26 | 39 | 32 | 26 | 37 | 31 | 26 | 24 | 24 | 24 |
| 9 | 52 | 37 | 29 | 23 | 50 | 37 | 28 | 23 | 36 | 28 | 22 | 34 | 27 | 22 | 33 | 27 | 22 | 20 | 20 | 20 |
| 10 | 48 | 33 | 25 | 19 | 46 | 33 | 25 | 19 | 32 | 24 | 19 | 31 | 24 | 19 | 30 | 24 | 19 | 17 | 17 | 17 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° | 135° | 180° |
|-----|---------|-------|-------|-------|-------|
| 0° | 11263 | 11263 | 11263 | 11263 | 11263 |
| 5° | 12050 | 11808 | 11064 | 10079 | 9837 |
| 10° | 13186 | 11682 | 9706 | 8709 | 8447 |
| 15° | 19274 | 11661 | 8113 | 7346 | 7613 |
| 20° | 48476 | 12774 | 6250 | 6250 | 7038 |
| 25° | 225068 | 15943 | 4865 | 5682 | 6480 |
| 30° | 716533 | 22054 | 3679 | 5369 | 6503 |
| 35° | 1243326 | 26911 | 2985 | 5088 | 6581 |
| 40° | 1450026 | 26844 | 2248 | 5126 | 6722 |
| 45° | 1487077 | 19046 | 2436 | 5553 | 7282 |
| 50° | 1382925 | 10664 | 1902 | 5707 | 8386 |
| 55° | 1175372 | 5555 | 2132 | 6396 | 9398 |
| 60° | 678833 | 1481 | 2446 | 6854 | 10299 |
| 65° | 138473 | 0 | 2893 | 8110 | 11573 |
| 70° | 2165 | 705 | 3575 | 9316 | 13596 |
| 75° | 1863 | 932 | 3793 | 9449 | 16103 |
| 80° | 1389 | 1389 | 5653 | 11306 | 18348 |
| 85° | 0 | 2766 | 11263 | 11263 | 22527 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1487077 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 5.9 | 0.4 |
| 10°-20° | 17.0 | 1.0 |
| 20°-30° | 97.3 | 5.8 |
| 30°-40° | 454.7 | 26.9 |
| 40°-50° | 643.0 | 38.1 |
| 50°-60° | 395.5 | 23.4 |
| 60°-70° | 60.2 | 3.6 |
| 70°-80° | 9.5 | 0.6 |
| 80°-90° | 4.8 | 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° | 120.3 | 7.1 |
| 0°-40° | 574.9 | 34.1 |
| 0°-60° | 1613.4 | 95.6 |
| 0°-90° | 1688.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 1688.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|-----|-----|------|------|------|
| 0° | 65 | 65 | 65 | 65 | 65 | |
| 5° | 70 | 68 | 64 | 58 | 57 | 7 |
| 15° | 108 | 65 | 46 | 41 | 43 | 39 |
| 25° | 1184 | 84 | 26 | 30 | 34 | 729 |
| 35° | 5914 | 128 | 14 | 24 | 31 | 3549 |
| 45° | 6106 | 78 | 10 | 23 | 30 | 4629 |
| 55° | 3914 | 18 | 7 | 21 | 31 | 3331 |
| 65° | 340 | 0 | 7 | 20 | 28 | 615 |
| 75° | 3 | 1 | 6 | 14 | 24 | 3 |
| 85° | 0 | 1 | 6 | 6 | 11 | 1 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P1317768

CATALOG NUMBER: LDSQA3D20R309827D010 3LSQCA45R 1MMS

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° |
|-------|--------|--------|--------|--------|--------|--------|-------|-------|------|--------|------|
| 0° | 65.4 | 65.4 | 65.4 | 65.4 | 65.4 | 65.4 | 65.4 | 65.4 | 65.4 | 65.4 | 65.4 |
| 2.5° | 66.8 | 66.8 | 68.3 | 68.3 | 66.8 | 68.3 | 68.3 | 68.3 | 65.4 | 64.0 | 61.1 |
| 5° | 69.7 | 69.7 | 69.7 | 71.1 | 69.7 | 69.7 | 68.3 | 66.8 | 64.0 | 59.7 | 58.3 |
| 7.5° | 72.5 | 72.5 | 71.1 | 72.5 | 71.1 | 71.1 | 68.3 | 65.4 | 61.1 | 56.9 | 54.0 |
| 10° | 75.4 | 75.4 | 73.9 | 73.9 | 72.5 | 72.5 | 66.8 | 62.6 | 55.5 | 51.2 | 49.8 |
| 12.5° | 83.9 | 83.9 | 82.5 | 81.0 | 78.2 | 76.8 | 65.4 | 58.3 | 49.8 | 45.5 | 44.1 |
| 15° | 108.1 | 106.6 | 103.8 | 99.5 | 92.4 | 91.0 | 65.4 | 54.0 | 45.5 | 41.2 | 41.2 |
| 17.5° | 147.9 | 146.5 | 142.2 | 130.8 | 118.0 | 113.8 | 65.4 | 48.3 | 39.8 | 37.0 | 37.0 |
| 20° | 264.5 | 253.1 | 231.8 | 203.3 | 173.5 | 157.8 | 69.7 | 42.7 | 34.1 | 32.7 | 34.1 |
| 21° | 345.5 | 334.1 | 307.1 | 260.2 | 207.6 | 190.5 | 72.5 | 41.2 | 32.7 | 31.3 | 34.1 |
| 22° | 470.6 | 457.9 | 402.4 | 338.4 | 263.1 | 233.2 | 73.9 | 38.4 | 29.9 | 29.9 | 32.7 |
| 23° | 656.9 | 635.6 | 541.7 | 439.4 | 328.5 | 285.8 | 76.8 | 37.0 | 28.4 | 29.9 | 31.3 |
| 24° | 860.2 | 841.8 | 735.1 | 581.6 | 419.5 | 358.3 | 79.6 | 35.5 | 27.0 | 27.0 | 29.9 |
| 25° | 1184.4 | 1163.1 | 974.0 | 733.7 | 531.8 | 430.8 | 83.9 | 32.7 | 25.6 | 25.6 | 29.9 |
| 26° | 1603.9 | 1505.8 | 1254.1 | 945.6 | 655.5 | 540.3 | 88.2 | 31.3 | 24.2 | 25.6 | 28.4 |
| 27° | 2002.0 | 1921.0 | 1638.0 | 1212.9 | 810.5 | 664.0 | 93.8 | 29.9 | 22.8 | 24.2 | 28.4 |
| 28° | 2525.3 | 2411.5 | 2054.6 | 1534.2 | 1020.9 | 803.4 | 99.5 | 28.4 | 21.3 | 24.2 | 27.0 |
| 29° | 3111.1 | 2951.9 | 2521.0 | 1895.4 | 1258.4 | 959.8 | 105.2 | 27.0 | 19.9 | 22.8 | 27.0 |
| 30° | 3603.1 | 3453.8 | 3023.0 | 2323.4 | 1531.4 | 1166.0 | 110.9 | 25.6 | 18.5 | 22.8 | 27.0 |
| 31° | 4180.4 | 3954.3 | 3432.5 | 2686.0 | 1766.0 | 1372.1 | 116.6 | 22.8 | 17.1 | 21.3 | 25.6 |
| 32° | 4648.2 | 4490.4 | 3935.8 | 3095.5 | 2074.6 | 1599.6 | 120.9 | 21.3 | 17.1 | 21.3 | 25.6 |
| 33° | 5100.4 | 4888.5 | 4352.4 | 3487.9 | 2353.2 | 1832.8 | 125.1 | 19.9 | 15.6 | 19.9 | 25.6 |
| 34° | 5532.6 | 5337.8 | 4746.3 | 3805.0 | 2616.3 | 2054.6 | 128.0 | 17.1 | 15.6 | 19.9 | 24.2 |
| 35° | 5913.7 | 5687.6 | 5093.2 | 4115.0 | 2886.5 | 2256.6 | 128.0 | 15.6 | 14.2 | 18.5 | 24.2 |
| 36° | 6161.1 | 5999.0 | 5394.7 | 4420.7 | 3131.0 | 2448.5 | 128.0 | 14.2 | 12.8 | 18.5 | 22.8 |
| 37° | 6373.0 | 6183.8 | 5636.4 | 4655.3 | 3311.6 | 2602.1 | 128.0 | 12.8 | 12.8 | 18.5 | 22.8 |
| 38° | 6459.7 | 6297.6 | 5802.8 | 4862.9 | 3480.8 | 2758.5 | 126.5 | 11.4 | 11.4 | 17.1 | 22.8 |
| 39° | 6493.8 | 6348.8 | 5927.9 | 5012.2 | 3605.9 | 2863.7 | 123.7 | 10.0 | 11.4 | 17.1 | 22.8 |
| 40° | 6449.7 | 6340.3 | 5991.9 | 5108.9 | 3705.5 | 2940.5 | 119.4 | 8.5 | 10.0 | 17.1 | 22.8 |
| 42.5° | 6267.7 | 6195.2 | 5977.7 | 5205.6 | 3790.8 | 2997.4 | 103.8 | 5.7 | 10.0 | 15.6 | 22.8 |
| 45° | 6105.6 | 6026.0 | 5834.1 | 5104.6 | 3679.9 | 2885.0 | 78.2 | 2.8 | 10.0 | 15.6 | 22.8 |
| 47.5° | 5791.4 | 5741.6 | 5590.9 | 4847.3 | 3436.7 | 2631.9 | 55.5 | 1.4 | 8.5 | 14.2 | 21.3 |
| 50° | 5161.5 | 5114.6 | 4915.5 | 4208.8 | 2956.1 | 2225.3 | 39.8 | 1.4 | 7.1 | 14.2 | 21.3 |
| 52.5° | 4597.0 | 4547.2 | 4261.4 | 3499.3 | 2270.8 | 1630.9 | 25.6 | 1.4 | 7.1 | 14.2 | 21.3 |
| 55° | 3914.5 | 3827.8 | 3452.4 | 2656.1 | 1609.6 | 1093.4 | 18.5 | 1.4 | 7.1 | 12.8 | 21.3 |
| 57.5° | 2897.8 | 2771.3 | 2435.7 | 1811.5 | 927.1 | 592.9 | 10.0 | 1.4 | 7.1 | 12.8 | 21.3 |
| 60° | 1970.8 | 1895.4 | 1524.3 | 955.5 | 395.3 | 250.3 | 4.3 | 1.4 | 7.1 | 12.8 | 19.9 |
| 62.5° | 1194.4 | 1099.1 | 766.4 | 406.7 | 170.6 | 113.8 | 0.0 | 2.8 | 7.1 | 12.8 | 19.9 |
| 65° | 339.8 | 301.4 | 200.5 | 92.4 | 48.3 | 37.0 | 0.0 | 2.8 | 7.1 | 12.8 | 19.9 |
| 67.5° | 11.4 | 11.4 | 11.4 | 10.0 | 7.1 | 7.1 | 1.4 | 2.8 | 7.1 | 12.8 | 18.5 |
| 70° | 4.3 | 4.3 | 4.3 | 2.8 | 2.8 | 1.4 | 1.4 | 2.8 | 7.1 | 11.4 | 18.5 |
| 72.5° | 2.8 | 2.8 | 2.8 | 2.8 | 1.4 | 1.4 | 1.4 | 2.8 | 5.7 | 10.0 | 17.1 |
| 75° | 2.8 | 2.8 | 2.8 | 1.4 | 1.4 | 1.4 | 1.4 | 4.3 | 5.7 | 10.0 | 14.2 |
| 77.5° | 2.8 | 2.8 | 2.8 | 1.4 | 1.4 | 1.4 | 1.4 | 4.3 | 5.7 | 8.5 | 14.2 |
| 80° | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 4.3 | 5.7 | 8.5 | 11.4 |



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CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° |
|-------|-----|-----|-----|-----|-----|-------|-----|-------|-----|--------|------|
| 82.5° | 1.4 | 1.4 | 1.4 | 0.0 | 0.0 | 0.0 | 1.4 | 4.3 | 5.7 | 5.7 | 8.5 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.4 | 4.3 | 5.7 | 4.3 | 5.7 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.4 | 4.3 | 4.3 | 4.3 | 2.8 |
| 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: P1317768

CATALOG NUMBER: LDSQA3D20R309827D010 3LSQCA45R 1MMS

CANDELA DISTRIBUTION (continued):

| | 157.5° | 180° |
|-------|--------|------|
| 0° | 65.4 | 65.4 |
| 2.5° | 61.1 | 61.1 |
| 5° | 56.9 | 56.9 |
| 7.5° | 52.6 | 52.6 |
| 10° | 48.3 | 48.3 |
| 12.5° | 45.5 | 45.5 |
| 15° | 41.2 | 42.7 |
| 17.5° | 38.4 | 39.8 |
| 20° | 37.0 | 38.4 |
| 21° | 37.0 | 38.4 |
| 22° | 35.5 | 37.0 |
| 23° | 35.5 | 37.0 |
| 24° | 34.1 | 35.5 |
| 25° | 32.7 | 34.1 |
| 26° | 32.7 | 34.1 |
| 27° | 32.7 | 34.1 |
| 28° | 31.3 | 34.1 |
| 29° | 31.3 | 32.7 |
| 30° | 31.3 | 32.7 |
| 31° | 29.9 | 32.7 |
| 32° | 29.9 | 32.7 |
| 33° | 29.9 | 31.3 |
| 34° | 28.4 | 31.3 |
| 35° | 28.4 | 31.3 |
| 36° | 28.4 | 31.3 |
| 37° | 28.4 | 29.9 |
| 38° | 28.4 | 31.3 |
| 39° | 28.4 | 29.9 |
| 40° | 28.4 | 29.9 |
| 42.5° | 28.4 | 29.9 |
| 45° | 28.4 | 29.9 |
| 47.5° | 28.4 | 31.3 |
| 50° | 28.4 | 31.3 |
| 52.5° | 28.4 | 31.3 |
| 55° | 28.4 | 31.3 |
| 57.5° | 28.4 | 29.9 |
| 60° | 28.4 | 29.9 |
| 62.5° | 27.0 | 29.9 |
| 65° | 27.0 | 28.4 |
| 67.5° | 27.0 | 28.4 |
| 70° | 25.6 | 27.0 |
| 72.5° | 24.2 | 25.6 |
| 75° | 21.3 | 24.2 |
| 77.5° | 19.9 | 21.3 |
| 80° | 17.1 | 18.5 |



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CANDELA DISTRIBUTION (continued):

| | 157.5° | 180° |
|-------|--------|------|
| 82.5° | 14.2 | 14.2 |
| 85° | 10.0 | 11.4 |
| 87.5° | 5.7 | 5.7 |
| 90° | 0.0 | 0.0 |

(END OF REPORT)