

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: P1324694

Luminaire Tested: LDSQA3D05R30W2N902750DE010 3LSQCA45R 1MW_3000K

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1324694
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: LDSQA3D05R30W2N902750DE010 3LSQCA45R 1MW_3000K
Description: 3in Adjustable Tunable White LED luminaire with, R30 optic, 3000K CCT AND, 90CRI ,
3LSQCA45R 1MW TRIM
Light Source: -
Ballast/Driver: -

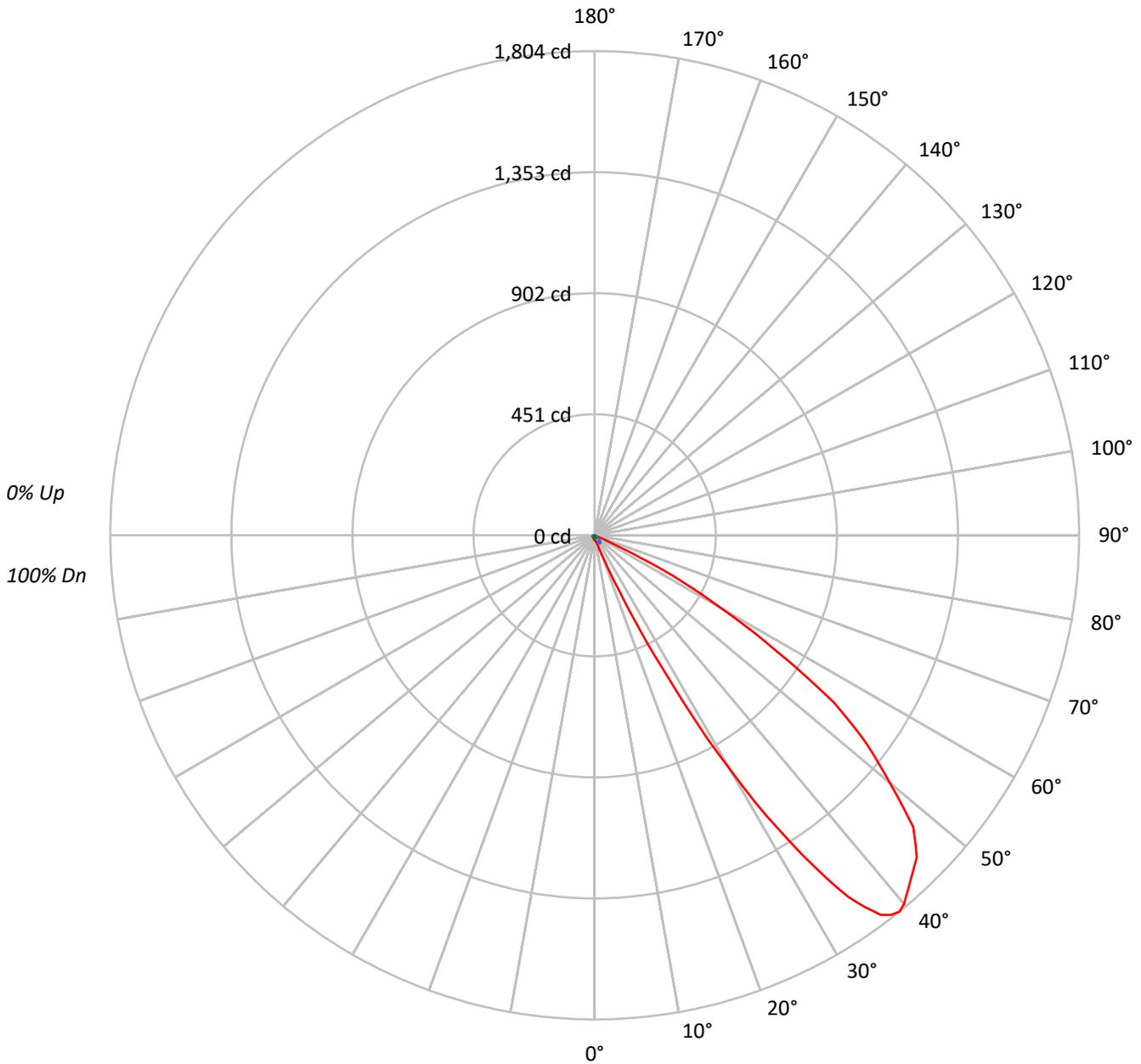
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 469.0 lumens
Efficiency: N/A
Efficacy: 79.5 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): 5.9
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

TEST NUMBER: P1324694
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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 | 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° | 3134 | 3134 | 3134 | 3134 | 3134 |
| 5° | 3354 | 3285 | 3077 | 2801 | 2732 |
| 10° | 3655 | 3253 | 2693 | 2413 | 2343 |
| 15° | 5349 | 3245 | 2247 | 2050 | 2122 |
| 20° | 13471 | 3556 | 1741 | 1741 | 1961 |
| 25° | 62538 | 4428 | 1349 | 1577 | 1805 |
| 30° | 199084 | 6125 | 1014 | 1491 | 1810 |
| 35° | 345454 | 7485 | 841 | 1409 | 1829 |
| 40° | 402879 | 7464 | 629 | 1416 | 1866 |
| 45° | 413174 | 5285 | 682 | 1534 | 2022 |
| 50° | 384240 | 2974 | 536 | 1581 | 2331 |
| 55° | 326564 | 1531 | 601 | 1772 | 2612 |
| 60° | 188618 | 413 | 689 | 1894 | 2859 |
| 65° | 38469 | 0 | 815 | 2241 | 3219 |
| 70° | 604 | 201 | 1007 | 2568 | 3777 |
| 75° | 532 | 266 | 1065 | 2662 | 4458 |
| 80° | 397 | 397 | 1587 | 3174 | 5058 |
| 85° | 0 | 790 | 3162 | 3162 | 6323 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 413174 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 1.6 | 0.4 |
| 10°-20° | 4.7 | 1.0 |
| 20°-30° | 27.0 | 5.8 |
| 30°-40° | 126.3 | 26.9 |
| 40°-50° | 178.6 | 38.1 |
| 50°-60° | 109.9 | 23.4 |
| 60°-70° | 16.7 | 3.6 |
| 70°-80° | 2.7 | 0.6 |
| 80°-90° | 1.3 | 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° | 33.4 | 7.1 |
| 0°-40° | 159.7 | 34.1 |
| 0°-60° | 448.3 | 95.6 |
| 0°-90° | 469.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 469.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|-----|-----|------|------|------|
| 0° | 18 | 18 | 18 | 18 | 18 | |
| 5° | 19 | 19 | 18 | 16 | 16 | 2 |
| 15° | 30 | 18 | 13 | 12 | 12 | 11 |
| 25° | 329 | 23 | 7 | 8 | 10 | 203 |
| 35° | 1643 | 36 | 4 | 7 | 9 | 986 |
| 45° | 1696 | 22 | 3 | 6 | 8 | 1286 |
| 55° | 1088 | 5 | 2 | 6 | 9 | 925 |
| 65° | 94 | 0 | 2 | 6 | 8 | 171 |
| 75° | 1 | 0 | 2 | 4 | 7 | 1 |
| 85° | 0 | 0 | 2 | 2 | 3 | 0 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P1324694

CATALOG NUMBER: LDSQA3D05R30W2N902750DE010 3LSQCA45R 1MW_3000K

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° |
|-------|--------|--------|--------|--------|--------|-------|------|-------|------|--------|------|
| 0° | 18.2 | 18.2 | 18.2 | 18.2 | 18.2 | 18.2 | 18.2 | 18.2 | 18.2 | 18.2 | 18.2 |
| 2.5° | 18.6 | 18.6 | 19.0 | 19.0 | 18.6 | 19.0 | 19.0 | 19.0 | 18.2 | 17.8 | 17.0 |
| 5° | 19.4 | 19.4 | 19.4 | 19.8 | 19.4 | 19.4 | 19.0 | 18.6 | 17.8 | 16.6 | 16.2 |
| 7.5° | 20.1 | 20.1 | 19.8 | 20.1 | 19.8 | 19.8 | 19.0 | 18.2 | 17.0 | 15.8 | 15.0 |
| 10° | 20.9 | 20.9 | 20.5 | 20.5 | 20.1 | 20.1 | 18.6 | 17.4 | 15.4 | 14.2 | 13.8 |
| 12.5° | 23.3 | 23.3 | 22.9 | 22.5 | 21.7 | 21.3 | 18.2 | 16.2 | 13.8 | 12.6 | 12.2 |
| 15° | 30.0 | 29.6 | 28.8 | 27.7 | 25.7 | 25.3 | 18.2 | 15.0 | 12.6 | 11.5 | 11.5 |
| 17.5° | 41.1 | 40.7 | 39.5 | 36.3 | 32.8 | 31.6 | 18.2 | 13.4 | 11.1 | 10.3 | 10.3 |
| 20° | 73.5 | 70.3 | 64.4 | 56.5 | 48.2 | 43.9 | 19.4 | 11.9 | 9.5 | 9.1 | 9.5 |
| 21° | 96.0 | 92.8 | 85.3 | 72.3 | 57.7 | 52.9 | 20.1 | 11.5 | 9.1 | 8.7 | 9.5 |
| 22° | 130.8 | 127.2 | 111.8 | 94.0 | 73.1 | 64.8 | 20.5 | 10.7 | 8.3 | 8.3 | 9.1 |
| 23° | 182.5 | 176.6 | 150.5 | 122.1 | 91.3 | 79.4 | 21.3 | 10.3 | 7.9 | 8.3 | 8.7 |
| 24° | 239.0 | 233.9 | 204.2 | 161.6 | 116.5 | 99.6 | 22.1 | 9.9 | 7.5 | 7.5 | 8.3 |
| 25° | 329.1 | 323.2 | 270.6 | 203.9 | 147.8 | 119.7 | 23.3 | 9.1 | 7.1 | 7.1 | 8.3 |
| 26° | 445.6 | 418.4 | 348.4 | 262.7 | 182.1 | 150.1 | 24.5 | 8.7 | 6.7 | 7.1 | 7.9 |
| 27° | 556.3 | 533.7 | 455.1 | 337.0 | 225.2 | 184.5 | 26.1 | 8.3 | 6.3 | 6.7 | 7.9 |
| 28° | 701.6 | 670.0 | 570.9 | 426.3 | 283.7 | 223.2 | 27.7 | 7.9 | 5.9 | 6.7 | 7.5 |
| 29° | 864.4 | 820.2 | 700.5 | 526.6 | 349.6 | 266.7 | 29.2 | 7.5 | 5.5 | 6.3 | 7.5 |
| 30° | 1001.1 | 959.6 | 839.9 | 645.5 | 425.5 | 324.0 | 30.8 | 7.1 | 5.1 | 6.3 | 7.5 |
| 31° | 1161.5 | 1098.7 | 953.7 | 746.3 | 490.7 | 381.2 | 32.4 | 6.3 | 4.7 | 5.9 | 7.1 |
| 32° | 1291.5 | 1247.6 | 1093.5 | 860.1 | 576.4 | 444.4 | 33.6 | 5.9 | 4.7 | 5.9 | 7.1 |
| 33° | 1417.1 | 1358.2 | 1209.3 | 969.1 | 653.8 | 509.2 | 34.8 | 5.5 | 4.3 | 5.5 | 7.1 |
| 34° | 1537.2 | 1483.1 | 1318.7 | 1057.2 | 726.9 | 570.9 | 35.6 | 4.7 | 4.3 | 5.5 | 6.7 |
| 35° | 1643.1 | 1580.3 | 1415.1 | 1143.3 | 802.0 | 627.0 | 35.6 | 4.3 | 4.0 | 5.1 | 6.7 |
| 36° | 1711.8 | 1666.8 | 1498.9 | 1228.3 | 869.9 | 680.3 | 35.6 | 4.0 | 3.6 | 5.1 | 6.3 |
| 37° | 1770.7 | 1718.1 | 1566.0 | 1293.4 | 920.1 | 723.0 | 35.6 | 3.6 | 3.6 | 5.1 | 6.3 |
| 38° | 1794.8 | 1749.7 | 1612.3 | 1351.1 | 967.1 | 766.4 | 35.2 | 3.2 | 3.2 | 4.7 | 6.3 |
| 39° | 1804.3 | 1764.0 | 1647.0 | 1392.6 | 1001.9 | 795.7 | 34.4 | 2.8 | 3.2 | 4.7 | 6.3 |
| 40° | 1792.0 | 1761.6 | 1664.8 | 1419.5 | 1029.5 | 817.0 | 33.2 | 2.4 | 2.8 | 4.7 | 6.3 |
| 42.5° | 1741.5 | 1721.3 | 1660.9 | 1446.3 | 1053.2 | 832.8 | 28.8 | 1.6 | 2.8 | 4.3 | 6.3 |
| 45° | 1696.4 | 1674.3 | 1621.0 | 1418.3 | 1022.4 | 801.6 | 21.7 | 0.8 | 2.8 | 4.3 | 6.3 |
| 47.5° | 1609.1 | 1595.3 | 1553.4 | 1346.8 | 954.9 | 731.3 | 15.4 | 0.4 | 2.4 | 4.0 | 5.9 |
| 50° | 1434.1 | 1421.1 | 1365.7 | 1169.4 | 821.3 | 618.3 | 11.1 | 0.4 | 2.0 | 4.0 | 5.9 |
| 52.5° | 1277.2 | 1263.4 | 1184.0 | 972.3 | 630.9 | 453.1 | 7.1 | 0.4 | 2.0 | 4.0 | 5.9 |
| 55° | 1087.6 | 1063.5 | 959.2 | 738.0 | 447.2 | 303.8 | 5.1 | 0.4 | 2.0 | 3.6 | 5.9 |
| 57.5° | 805.1 | 770.0 | 676.7 | 503.3 | 257.6 | 164.7 | 2.8 | 0.4 | 2.0 | 3.6 | 5.9 |
| 60° | 547.6 | 526.6 | 423.5 | 265.5 | 109.8 | 69.5 | 1.2 | 0.4 | 2.0 | 3.6 | 5.5 |
| 62.5° | 331.9 | 305.4 | 212.9 | 113.0 | 47.4 | 31.6 | 0.0 | 0.8 | 2.0 | 3.6 | 5.5 |
| 65° | 94.4 | 83.8 | 55.7 | 25.7 | 13.4 | 10.3 | 0.0 | 0.8 | 2.0 | 3.6 | 5.5 |
| 67.5° | 3.2 | 3.2 | 3.2 | 2.8 | 2.0 | 2.0 | 0.4 | 0.8 | 2.0 | 3.6 | 5.1 |
| 70° | 1.2 | 1.2 | 1.2 | 0.8 | 0.8 | 0.4 | 0.4 | 0.8 | 2.0 | 3.2 | 5.1 |
| 72.5° | 0.8 | 0.8 | 0.8 | 0.8 | 0.4 | 0.4 | 0.4 | 0.8 | 1.6 | 2.8 | 4.7 |
| 75° | 0.8 | 0.8 | 0.8 | 0.4 | 0.4 | 0.4 | 0.4 | 1.2 | 1.6 | 2.8 | 4.0 |
| 77.5° | 0.8 | 0.8 | 0.8 | 0.4 | 0.4 | 0.4 | 0.4 | 1.2 | 1.6 | 2.4 | 4.0 |
| 80° | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 1.2 | 1.6 | 2.4 | 3.2 |



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CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° |
|-------|-----|-----|-----|-----|-----|-------|-----|-------|-----|--------|------|
| 82.5° | 0.4 | 0.4 | 0.4 | 0.0 | 0.0 | 0.0 | 0.4 | 1.2 | 1.6 | 1.6 | 2.4 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.4 | 1.2 | 1.6 | 1.2 | 1.6 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.4 | 1.2 | 1.2 | 1.2 | 0.8 |
| 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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CANDELA DISTRIBUTION (continued):

| | 157.5° | 180° |
|-------|--------|------|
| 0° | 18.2 | 18.2 |
| 2.5° | 17.0 | 17.0 |
| 5° | 15.8 | 15.8 |
| 7.5° | 14.6 | 14.6 |
| 10° | 13.4 | 13.4 |
| 12.5° | 12.6 | 12.6 |
| 15° | 11.5 | 11.9 |
| 17.5° | 10.7 | 11.1 |
| 20° | 10.3 | 10.7 |
| 21° | 10.3 | 10.7 |
| 22° | 9.9 | 10.3 |
| 23° | 9.9 | 10.3 |
| 24° | 9.5 | 9.9 |
| 25° | 9.1 | 9.5 |
| 26° | 9.1 | 9.5 |
| 27° | 9.1 | 9.5 |
| 28° | 8.7 | 9.5 |
| 29° | 8.7 | 9.1 |
| 30° | 8.7 | 9.1 |
| 31° | 8.3 | 9.1 |
| 32° | 8.3 | 9.1 |
| 33° | 8.3 | 8.7 |
| 34° | 7.9 | 8.7 |
| 35° | 7.9 | 8.7 |
| 36° | 7.9 | 8.7 |
| 37° | 7.9 | 8.3 |
| 38° | 7.9 | 8.7 |
| 39° | 7.9 | 8.3 |
| 40° | 7.9 | 8.3 |
| 42.5° | 7.9 | 8.3 |
| 45° | 7.9 | 8.3 |
| 47.5° | 7.9 | 8.7 |
| 50° | 7.9 | 8.7 |
| 52.5° | 7.9 | 8.7 |
| 55° | 7.9 | 8.7 |
| 57.5° | 7.9 | 8.3 |
| 60° | 7.9 | 8.3 |
| 62.5° | 7.5 | 8.3 |
| 65° | 7.5 | 7.9 |
| 67.5° | 7.5 | 7.9 |
| 70° | 7.1 | 7.5 |
| 72.5° | 6.7 | 7.1 |
| 75° | 5.9 | 6.7 |
| 77.5° | 5.5 | 5.9 |
| 80° | 4.7 | 5.1 |



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CANDELA DISTRIBUTION (continued):

| | 157.5° | 180° |
|-------|--------|------|
| 82.5° | 4.0 | 4.0 |
| 85° | 2.8 | 3.2 |
| 87.5° | 1.6 | 1.6 |
| 90° | 0.0 | 0.0 |

(END OF REPORT)