

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: P1307581

Luminaire Tested: LDSQA3D02R159027DE010 3LSQCA30R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1307581
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-59)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D02R159027DE010 3LSQCA30R 1MW
Description: 3in Adjustable LED luminaire with, R15 optic, 2700K CCT AND, 90CRI , 3LSQCA30R 1MW TRIM
Light Source: -
Ballast/Driver: -

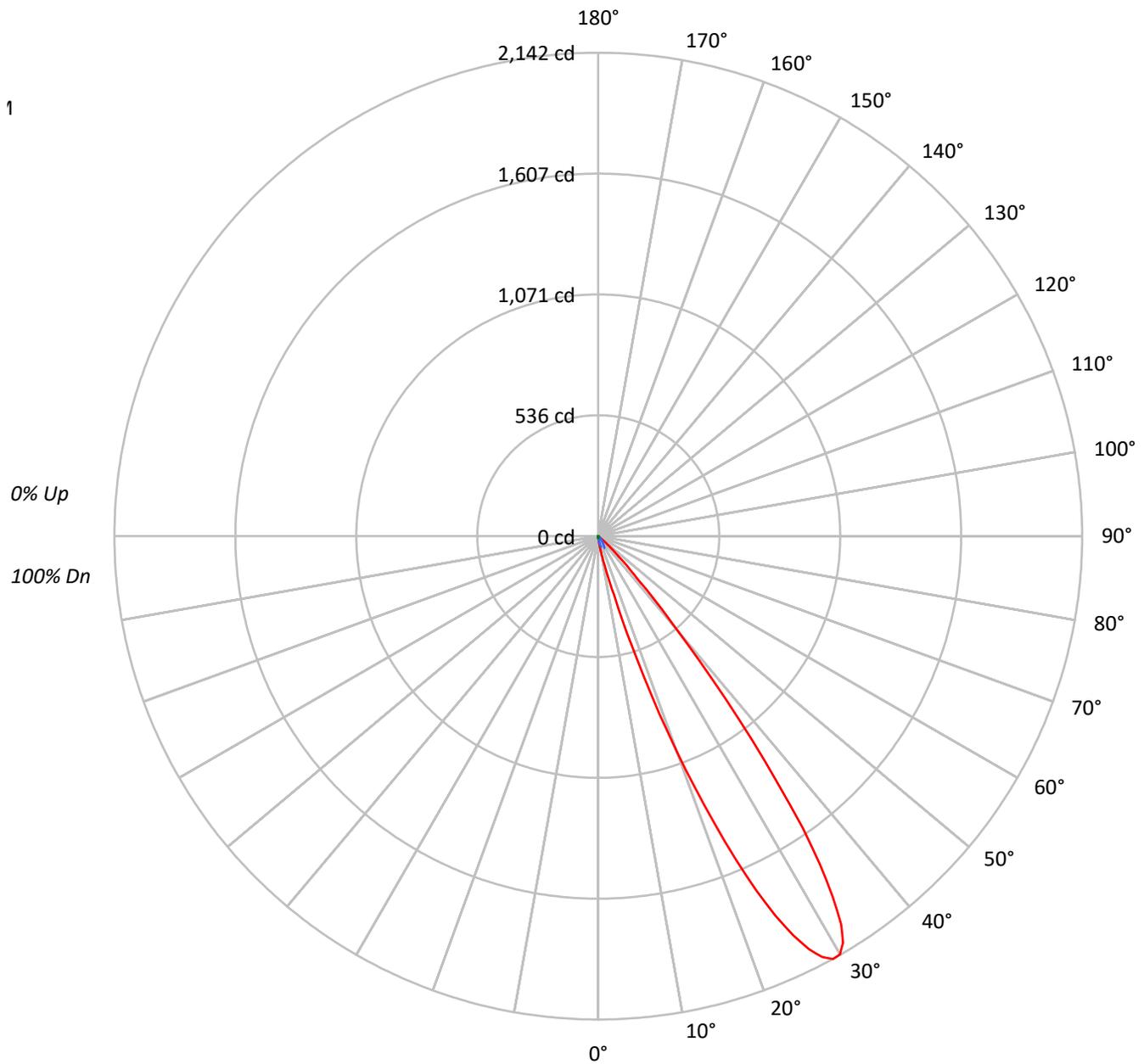
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 234.0 lumens
Efficiency: N/A
Efficacy: 65.0 lumens/watt
Spacing Criteria (0/90/45): 2.35 / 0.49 / 1.26
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 (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: 24 FT

TEST NUMBER: P1307581
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Luminous Intensity Polar Plot



— 0°-180° - - 45°-225° - - - 90°-270°



TEST NUMBER: P1307581

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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 | 113 | 109 | 107 | 104 | 110 | 107 | 105 | 102 | 103 | 101 | 99 | 99 | 98 | 96 | 96 | 95 | 93 | 96 | 95 | 93 | 92 |
| 2 | 106 | 100 | 96 | 92 | 104 | 99 | 94 | 91 | 95 | 92 | 89 | 92 | 89 | 87 | 89 | 87 | 85 | 89 | 87 | 85 | 83 |
| 3 | 99 | 92 | 86 | 81 | 97 | 90 | 85 | 81 | 88 | 83 | 79 | 85 | 81 | 78 | 83 | 80 | 77 | 83 | 80 | 77 | 75 |
| 4 | 93 | 84 | 78 | 73 | 91 | 83 | 77 | 72 | 81 | 75 | 71 | 79 | 74 | 70 | 77 | 73 | 70 | 77 | 73 | 70 | 68 |
| 5 | 87 | 77 | 70 | 65 | 85 | 76 | 70 | 65 | 74 | 69 | 64 | 72 | 67 | 64 | 71 | 66 | 63 | 71 | 66 | 63 | 61 |
| 6 | 81 | 71 | 64 | 59 | 80 | 70 | 63 | 58 | 68 | 62 | 58 | 67 | 61 | 57 | 65 | 61 | 57 | 65 | 61 | 57 | 55 |
| 7 | 76 | 65 | 58 | 53 | 74 | 64 | 57 | 53 | 63 | 57 | 52 | 61 | 56 | 52 | 60 | 55 | 52 | 60 | 55 | 52 | 50 |
| 8 | 71 | 60 | 53 | 48 | 70 | 59 | 52 | 48 | 58 | 52 | 47 | 57 | 51 | 47 | 56 | 51 | 47 | 56 | 51 | 47 | 45 |
| 9 | 66 | 55 | 48 | 43 | 65 | 54 | 48 | 43 | 53 | 47 | 43 | 52 | 47 | 43 | 51 | 46 | 42 | 51 | 46 | 42 | 41 |
| 10 | 62 | 51 | 44 | 39 | 61 | 50 | 43 | 39 | 49 | 43 | 39 | 48 | 43 | 39 | 47 | 42 | 39 | 47 | 42 | 39 | 37 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° | 135° | 180° |
|-----|--------|-------|------|------|------|
| 0° | 1326 | 1326 | 1326 | 1326 | 1326 |
| 5° | 2870 | 2126 | 1262 | 674 | 553 |
| 10° | 12731 | 4022 | 997 | 280 | 192 |
| 15° | 48176 | 9289 | 695 | 125 | 89 |
| 20° | 185273 | 13104 | 422 | 37 | 37 |
| 25° | 352309 | 12276 | 209 | 0 | 0 |
| 30° | 425592 | 9904 | 99 | 0 | 0 |
| 35° | 331935 | 6749 | 42 | 0 | 0 |
| 40° | 121133 | 3327 | 45 | 0 | 45 |
| 45° | 31103 | 999 | 49 | 0 | 122 |
| 50° | 5251 | 134 | 54 | 54 | 188 |
| 55° | 691 | 0 | 150 | 210 | 330 |
| 60° | 69 | 69 | 241 | 310 | 482 |
| 65° | 82 | 82 | 367 | 448 | 571 |
| 70° | 101 | 101 | 453 | 453 | 554 |
| 75° | 133 | 133 | 599 | 466 | 599 |
| 80° | 0 | 198 | 694 | 496 | 694 |
| 85° | 0 | 395 | 1383 | 395 | 395 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 31103 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 1.1 | 0.5 |
| 10°-20° | 17.9 | 7.7 |
| 20°-30° | 99.5 | 42.5 |
| 30°-40° | 96.1 | 41.1 |
| 40°-50° | 16.7 | 7.1 |
| 50°-60° | 1.2 | 0.5 |
| 60°-70° | 0.7 | 0.3 |
| 70°-80° | 0.6 | 0.2 |
| 80°-90° | 0.3 | 0.1 |
| 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° | 118.4 | 50.6 |
| 0°-40° | 214.5 | 91.7 |
| 0°-60° | 232.4 | 99.3 |
| 0°-90° | 234.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 234.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|-----|-----|------|------|------|
| 0° | 8 | 8 | 8 | 8 | 8 | |
| 5° | 17 | 12 | 7 | 4 | 3 | 3 |
| 15° | 270 | 52 | 4 | 1 | 0 | 120 |
| 25° | 1854 | 65 | 1 | 0 | 0 | 829 |
| 35° | 1579 | 32 | 0 | 0 | 0 | 908 |
| 45° | 128 | 4 | 0 | 0 | 0 | 137 |
| 55° | 2 | 0 | 0 | 1 | 1 | 4 |
| 65° | 0 | 0 | 1 | 1 | 1 | 0 |
| 75° | 0 | 0 | 1 | 1 | 1 | 0 |
| 85° | 0 | 0 | 1 | 0 | 0 | 0 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P1307581

CATALOG NUMBER: LDSQA3D02R159027DE010 3LSQCA30R 1MW

CANDELA DISTRIBUTION (FULL):

| | 0° | 2.5° | 5° | 7.5° | 10° | 12.5° | 15° | 17.5° | 20° | 22.5° | 45° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|------|
| 0° | 7.7 | 7.7 | 7.7 | 7.7 | 7.7 | 7.7 | 7.7 | 7.7 | 7.7 | 7.7 | 7.7 |
| 2.5° | 11.4 | 10.9 | 11.2 | 11.2 | 11.2 | 11.2 | 11.2 | 10.7 | 10.7 | 10.9 | 9.8 |
| 5° | 16.6 | 16.6 | 16.4 | 16.6 | 16.6 | 16.4 | 15.9 | 15.7 | 15.7 | 15.3 | 12.3 |
| 7.5° | 33.2 | 32.8 | 32.8 | 32.3 | 30.0 | 29.4 | 28.9 | 27.8 | 25.7 | 25.3 | 15.9 |
| 10° | 72.8 | 73.1 | 71.5 | 69.4 | 69.2 | 65.8 | 64.6 | 62.6 | 58.7 | 54.9 | 23.0 |
| 12.5° | 132.2 | 129.3 | 125.4 | 125.6 | 119.0 | 116.8 | 111.5 | 105.8 | 99.9 | 93.8 | 37.8 |
| 15° | 270.2 | 261.8 | 266.8 | 254.5 | 240.6 | 224.9 | 209.0 | 188.9 | 171.9 | 153.6 | 52.1 |
| 17.5° | 569.1 | 577.3 | 563.4 | 510.8 | 478.5 | 440.5 | 387.0 | 335.3 | 291.1 | 255.6 | 63.7 |
| 20° | 1010.9 | 1022.9 | 975.8 | 930.1 | 851.5 | 766.0 | 676.7 | 575.7 | 478.9 | 395.2 | 71.5 |
| 21° | 1195.5 | 1188.2 | 1168.8 | 1095.6 | 1005.0 | 905.7 | 796.5 | 684.9 | 567.7 | 458.9 | 72.2 |
| 22° | 1373.9 | 1377.3 | 1332.3 | 1255.6 | 1161.3 | 1051.4 | 918.0 | 780.3 | 654.0 | 510.8 | 71.0 |
| 23° | 1551.7 | 1562.6 | 1503.0 | 1431.1 | 1312.5 | 1188.4 | 1034.1 | 885.5 | 729.3 | 570.2 | 68.7 |
| 24° | 1716.3 | 1708.8 | 1668.5 | 1577.9 | 1451.1 | 1305.9 | 1145.6 | 965.3 | 791.2 | 621.0 | 66.9 |
| 25° | 1854.0 | 1853.1 | 1789.8 | 1701.7 | 1556.7 | 1395.8 | 1219.1 | 1030.7 | 844.3 | 655.3 | 64.6 |
| 26° | 1966.7 | 1948.2 | 1898.4 | 1790.9 | 1647.8 | 1478.0 | 1279.5 | 1078.3 | 874.1 | 672.6 | 62.4 |
| 27° | 2053.6 | 2040.4 | 1973.5 | 1861.7 | 1712.2 | 1524.4 | 1318.2 | 1101.9 | 887.7 | 678.3 | 59.4 |
| 28° | 2112.1 | 2097.8 | 2026.5 | 1911.4 | 1747.7 | 1553.5 | 1338.7 | 1111.9 | 887.7 | 672.9 | 56.7 |
| 29° | 2142.4 | 2122.8 | 2051.8 | 1928.4 | 1755.9 | 1556.9 | 1333.6 | 1102.2 | 873.8 | 656.0 | 53.5 |
| 30° | 2140.1 | 2115.8 | 2041.3 | 1912.9 | 1731.5 | 1528.9 | 1305.6 | 1066.9 | 842.4 | 631.0 | 49.8 |
| 31° | 2103.2 | 2075.9 | 1992.8 | 1860.6 | 1681.2 | 1476.1 | 1252.8 | 1019.5 | 799.4 | 598.4 | 46.2 |
| 32° | 2028.4 | 1993.8 | 1912.7 | 1780.9 | 1603.8 | 1397.2 | 1176.1 | 946.5 | 735.0 | 550.8 | 42.3 |
| 33° | 1906.3 | 1871.5 | 1784.6 | 1661.0 | 1499.1 | 1297.0 | 1074.4 | 867.9 | 661.7 | 494.2 | 39.2 |
| 34° | 1753.6 | 1721.7 | 1646.9 | 1522.3 | 1367.1 | 1170.2 | 957.4 | 759.4 | 585.7 | 437.9 | 35.7 |
| 35° | 1578.8 | 1528.0 | 1460.2 | 1361.6 | 1210.3 | 1012.2 | 831.1 | 658.3 | 507.4 | 379.0 | 32.1 |
| 36° | 1342.3 | 1351.4 | 1279.5 | 1158.8 | 1033.4 | 878.2 | 704.3 | 548.8 | 424.3 | 323.0 | 28.9 |
| 37° | 1132.7 | 1118.3 | 1072.6 | 979.2 | 870.0 | 715.9 | 590.2 | 465.3 | 356.9 | 273.1 | 25.5 |
| 38° | 913.7 | 916.9 | 872.0 | 800.3 | 692.0 | 588.6 | 475.0 | 382.2 | 298.6 | 232.4 | 22.3 |
| 39° | 715.2 | 712.7 | 700.6 | 634.2 | 536.1 | 468.2 | 384.9 | 316.9 | 248.8 | 196.0 | 18.9 |
| 40° | 538.8 | 542.9 | 514.7 | 474.6 | 417.5 | 361.7 | 306.6 | 252.7 | 205.8 | 165.3 | 14.8 |
| 42.5° | 262.0 | 268.4 | 249.7 | 239.5 | 214.2 | 192.3 | 162.3 | 132.5 | 112.7 | 97.4 | 6.6 |
| 45° | 127.7 | 124.1 | 122.5 | 117.5 | 111.5 | 99.7 | 88.3 | 75.8 | 66.2 | 57.1 | 4.1 |
| 47.5° | 65.3 | 63.5 | 63.5 | 61.5 | 59.4 | 55.5 | 49.8 | 45.8 | 41.2 | 35.5 | 1.6 |
| 50° | 19.6 | 19.3 | 19.1 | 19.3 | 18.7 | 19.3 | 19.8 | 20.0 | 18.2 | 18.0 | 0.5 |
| 52.5° | 7.7 | 8.0 | 7.7 | 8.4 | 8.4 | 8.2 | 8.4 | 8.2 | 8.0 | 7.1 | 0.0 |
| 55° | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 | 2.5 | 2.7 | 2.5 | 2.7 | 0.0 |
| 57.5° | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.0 |
| 60° | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.0 | 0.2 |
| 62.5° | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 65° | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 67.5° | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 70° | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 72.5° | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 75° | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 77.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.2 | 0.2 | 0.2 |
| 80° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.2 |



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CANDELA DISTRIBUTION (continued):

| | 0° | 2.5° | 5° | 7.5° | 10° | 12.5° | 15° | 17.5° | 20° | 22.5° | 45° |
|-------|-----|------|-----|------|-----|-------|-----|-------|-----|-------|-----|
| 82.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.2 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.2 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.2 |
| 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):

| | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° |
|-------|-------|-----|--------|------|--------|------|
| 0° | 7.7 | 7.7 | 7.7 | 7.7 | 7.7 | 7.7 |
| 2.5° | 9.1 | 8.0 | 6.6 | 5.5 | 5.0 | 4.8 |
| 5° | 9.8 | 7.3 | 5.0 | 3.9 | 3.4 | 3.2 |
| 7.5° | 10.5 | 6.6 | 3.9 | 2.7 | 2.0 | 1.8 |
| 10° | 10.9 | 5.7 | 3.0 | 1.6 | 1.1 | 1.1 |
| 12.5° | 10.9 | 4.6 | 2.0 | 0.9 | 0.7 | 0.7 |
| 15° | 10.7 | 3.9 | 1.4 | 0.7 | 0.5 | 0.5 |
| 17.5° | 10.5 | 3.0 | 0.9 | 0.5 | 0.2 | 0.5 |
| 20° | 9.8 | 2.3 | 0.5 | 0.2 | 0.2 | 0.2 |
| 21° | 9.6 | 2.0 | 0.5 | 0.2 | 0.2 | 0.2 |
| 22° | 9.1 | 1.8 | 0.2 | 0.0 | 0.2 | 0.2 |
| 23° | 8.6 | 1.4 | 0.2 | 0.0 | 0.0 | 0.0 |
| 24° | 8.0 | 1.1 | 0.2 | 0.0 | 0.0 | 0.0 |
| 25° | 7.5 | 1.1 | 0.2 | 0.0 | 0.0 | 0.0 |
| 26° | 7.1 | 0.7 | 0.0 | 0.0 | 0.0 | 0.0 |
| 27° | 6.4 | 0.5 | 0.0 | 0.0 | 0.0 | 0.0 |
| 28° | 5.9 | 0.5 | 0.0 | 0.0 | 0.0 | 0.0 |
| 29° | 5.2 | 0.5 | 0.0 | 0.0 | 0.0 | 0.0 |
| 30° | 4.6 | 0.5 | 0.0 | 0.0 | 0.0 | 0.0 |
| 31° | 3.6 | 0.2 | 0.0 | 0.0 | 0.0 | 0.0 |
| 32° | 3.0 | 0.2 | 0.0 | 0.0 | 0.0 | 0.0 |
| 33° | 2.0 | 0.2 | 0.0 | 0.0 | 0.0 | 0.0 |
| 34° | 1.4 | 0.2 | 0.0 | 0.0 | 0.0 | 0.0 |
| 35° | 1.1 | 0.2 | 0.0 | 0.0 | 0.0 | 0.0 |
| 36° | 0.7 | 0.2 | 0.0 | 0.0 | 0.0 | 0.2 |
| 37° | 0.7 | 0.2 | 0.0 | 0.0 | 0.0 | 0.2 |
| 38° | 0.5 | 0.2 | 0.0 | 0.0 | 0.0 | 0.2 |
| 39° | 0.2 | 0.2 | 0.0 | 0.0 | 0.0 | 0.2 |
| 40° | 0.2 | 0.2 | 0.0 | 0.0 | 0.0 | 0.2 |
| 42.5° | 0.0 | 0.2 | 0.0 | 0.0 | 0.2 | 0.5 |
| 45° | 0.0 | 0.2 | 0.0 | 0.0 | 0.2 | 0.5 |
| 47.5° | 0.0 | 0.2 | 0.0 | 0.0 | 0.5 | 0.5 |
| 50° | 0.0 | 0.2 | 0.2 | 0.2 | 0.5 | 0.7 |
| 52.5° | 0.0 | 0.5 | 0.2 | 0.5 | 0.7 | 0.9 |
| 55° | 0.2 | 0.5 | 0.5 | 0.7 | 0.9 | 1.1 |
| 57.5° | 0.2 | 0.7 | 0.7 | 0.9 | 1.1 | 1.1 |
| 60° | 0.5 | 0.7 | 0.9 | 0.9 | 1.4 | 1.4 |
| 62.5° | 0.5 | 0.9 | 0.9 | 0.9 | 1.4 | 1.4 |
| 65° | 0.5 | 0.9 | 0.9 | 1.1 | 1.4 | 1.4 |
| 67.5° | 0.5 | 0.9 | 0.9 | 0.9 | 1.1 | 1.4 |
| 70° | 0.5 | 0.9 | 0.7 | 0.9 | 1.1 | 1.1 |
| 72.5° | 0.5 | 0.9 | 0.7 | 0.7 | 0.9 | 1.1 |
| 75° | 0.5 | 0.9 | 0.7 | 0.7 | 0.9 | 0.9 |
| 77.5° | 0.5 | 0.7 | 0.7 | 0.5 | 0.7 | 0.7 |
| 80° | 0.5 | 0.7 | 0.5 | 0.5 | 0.7 | 0.7 |



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CANDELA DISTRIBUTION (continued):

| | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° |
|-------|-------|-----|--------|------|--------|------|
| 82.5° | 0.5 | 0.7 | 0.5 | 0.2 | 0.5 | 0.5 |
| 85° | 0.5 | 0.7 | 0.5 | 0.2 | 0.2 | 0.2 |
| 87.5° | 0.5 | 0.7 | 0.2 | 0.0 | 0.0 | 0.2 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)