

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: P1307800

Luminaire Tested: LDSQA3D05R309027DE010 3LSQCA45R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1307800
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: LDSQA3D05R309027DE010 3LSQCA45R 1MW
Description: 3in Adjustable LED luminaire with, R30 optic, 2700K CCT AND, 90CRI , 3LSQCA45R 1MW TRIM
Light Source: -
Ballast/Driver: -

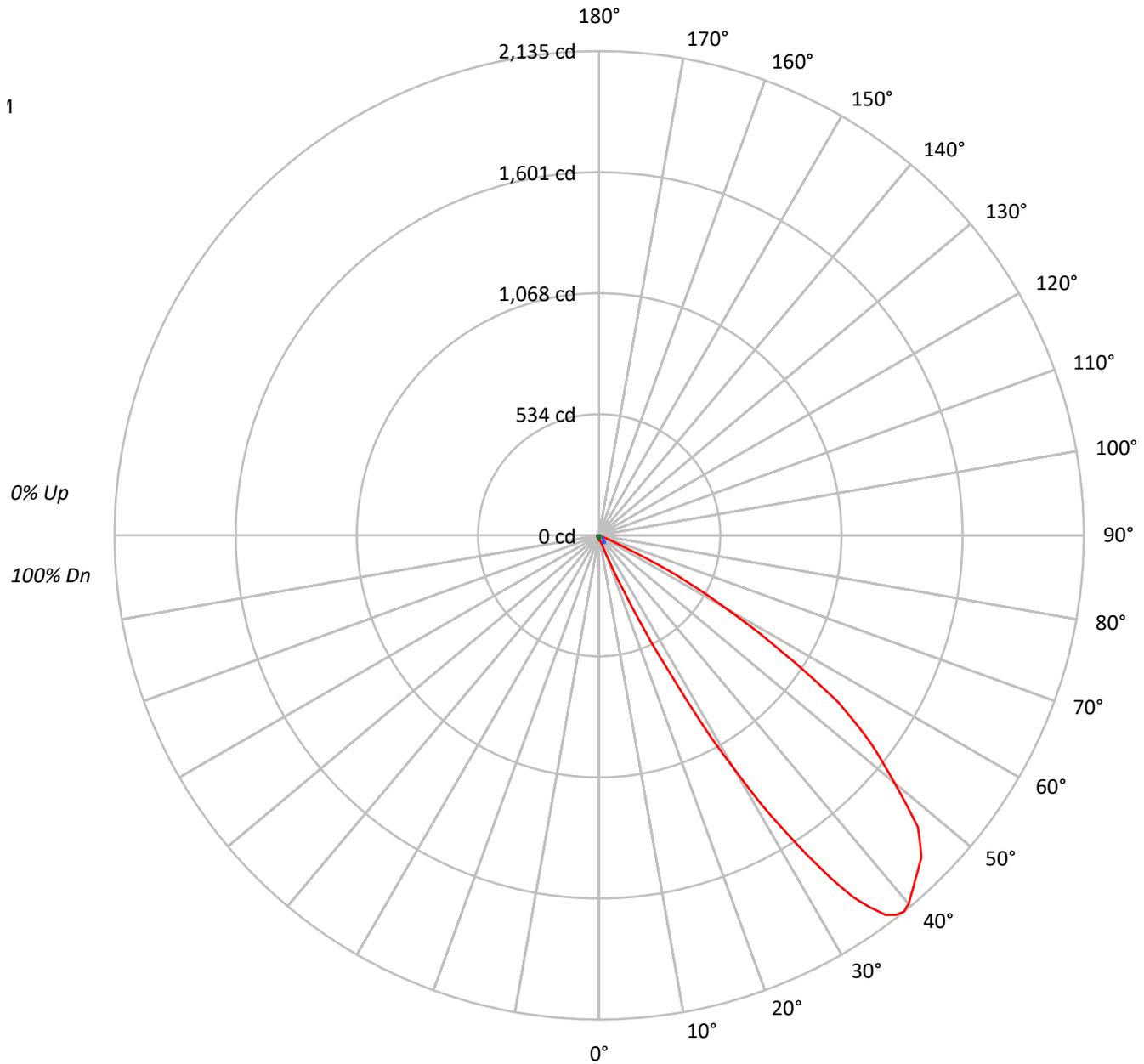
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 555.0 lumens
Efficiency: N/A
Efficacy: 77.1 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): 7.2
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

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

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° | 135° | 180° |
|-----|--------|------|------|------|------|
| 0° | 3703 | 3703 | 3703 | 3703 | 3703 |
| 5° | 3959 | 3873 | 3630 | 3319 | 3233 |
| 10° | 4337 | 3847 | 3183 | 2868 | 2781 |
| 15° | 6330 | 3833 | 2674 | 2425 | 2496 |
| 20° | 15945 | 4197 | 2053 | 2053 | 2309 |
| 25° | 73996 | 5245 | 1596 | 1862 | 2128 |
| 30° | 235596 | 7259 | 1213 | 1770 | 2148 |
| 35° | 408800 | 8851 | 988 | 1661 | 2166 |
| 40° | 476755 | 8835 | 742 | 1686 | 2203 |
| 45° | 488946 | 6259 | 804 | 1827 | 2387 |
| 50° | 454705 | 3510 | 616 | 1876 | 2760 |
| 55° | 386466 | 1832 | 691 | 2102 | 3093 |
| 60° | 223201 | 482 | 792 | 2239 | 3376 |
| 65° | 45519 | 0 | 937 | 2649 | 3831 |
| 70° | 705 | 252 | 1158 | 3072 | 4482 |
| 75° | 599 | 333 | 1264 | 3127 | 5257 |
| 80° | 496 | 496 | 1884 | 3670 | 6050 |
| 85° | 0 | 988 | 3754 | 3754 | 7311 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 488946 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 1.9 | 0.3 |
| 10°-20° | 5.6 | 1.0 |
| 20°-30° | 32.0 | 5.8 |
| 30°-40° | 149.5 | 26.9 |
| 40°-50° | 211.4 | 38.1 |
| 50°-60° | 130.1 | 23.4 |
| 60°-70° | 19.8 | 3.6 |
| 70°-80° | 3.1 | 0.6 |
| 80°-90° | 1.6 | 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° | 39.6 | 7.1 |
| 0°-40° | 189.0 | 34.1 |
| 0°-60° | 530.5 | 95.6 |
| 0°-90° | 555.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 555.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|-----|-----|------|------|------|
| 0° | 22 | 22 | 22 | 22 | 22 | |
| 5° | 23 | 22 | 21 | 19 | 19 | 2 |
| 15° | 36 | 22 | 15 | 14 | 14 | 13 |
| 25° | 389 | 28 | 8 | 10 | 11 | 240 |
| 35° | 1944 | 42 | 5 | 8 | 10 | 1167 |
| 45° | 2008 | 26 | 3 | 8 | 10 | 1522 |
| 55° | 1287 | 6 | 2 | 7 | 10 | 1095 |
| 65° | 112 | 0 | 2 | 6 | 9 | 202 |
| 75° | 1 | 0 | 2 | 5 | 8 | 1 |
| 85° | 0 | 0 | 2 | 2 | 4 | 0 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P1307800

CATALOG NUMBER: LDSQA3D05R309027DE010 3LSQCA45R 1MW

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° |
|-------|--------|--------|--------|--------|--------|-------|------|-------|------|--------|------|
| 0° | 21.5 | 21.5 | 21.5 | 21.5 | 21.5 | 21.5 | 21.5 | 21.5 | 21.5 | 21.5 | 21.5 |
| 2.5° | 22.0 | 22.0 | 22.4 | 22.4 | 22.0 | 22.4 | 22.4 | 22.4 | 21.5 | 21.0 | 20.1 |
| 5° | 22.9 | 22.9 | 22.9 | 23.4 | 22.9 | 22.9 | 22.4 | 22.0 | 21.0 | 19.6 | 19.2 |
| 7.5° | 23.8 | 23.8 | 23.4 | 23.8 | 23.4 | 23.4 | 22.4 | 21.5 | 20.1 | 18.7 | 17.8 |
| 10° | 24.8 | 24.8 | 24.3 | 24.3 | 23.8 | 23.8 | 22.0 | 20.6 | 18.2 | 16.8 | 16.4 |
| 12.5° | 27.6 | 27.6 | 27.1 | 26.6 | 25.7 | 25.2 | 21.5 | 19.2 | 16.4 | 15.0 | 14.5 |
| 15° | 35.5 | 35.1 | 34.1 | 32.7 | 30.4 | 29.9 | 21.5 | 17.8 | 15.0 | 13.6 | 13.6 |
| 17.5° | 48.6 | 48.2 | 46.8 | 43.0 | 38.8 | 37.4 | 21.5 | 15.9 | 13.1 | 12.2 | 12.2 |
| 20° | 87.0 | 83.2 | 76.2 | 66.9 | 57.0 | 51.9 | 22.9 | 14.0 | 11.2 | 10.8 | 11.2 |
| 21° | 113.6 | 109.9 | 101.0 | 85.6 | 68.3 | 62.6 | 23.8 | 13.6 | 10.8 | 10.3 | 11.2 |
| 22° | 154.7 | 150.5 | 132.3 | 111.3 | 86.5 | 76.7 | 24.3 | 12.6 | 9.8 | 9.8 | 10.8 |
| 23° | 216.0 | 209.0 | 178.1 | 144.5 | 108.0 | 94.0 | 25.2 | 12.2 | 9.4 | 9.8 | 10.3 |
| 24° | 282.8 | 276.8 | 241.7 | 191.2 | 137.9 | 117.8 | 26.2 | 11.7 | 8.9 | 8.9 | 9.8 |
| 25° | 389.4 | 382.4 | 320.2 | 241.2 | 174.8 | 141.7 | 27.6 | 10.8 | 8.4 | 8.4 | 9.8 |
| 26° | 527.3 | 495.1 | 412.3 | 310.9 | 215.5 | 177.7 | 29.0 | 10.3 | 7.9 | 8.4 | 9.4 |
| 27° | 658.3 | 631.6 | 538.6 | 398.8 | 266.5 | 218.3 | 30.9 | 9.8 | 7.5 | 7.9 | 9.4 |
| 28° | 830.3 | 792.9 | 675.5 | 504.4 | 335.7 | 264.1 | 32.7 | 9.4 | 7.0 | 7.9 | 8.9 |
| 29° | 1022.9 | 970.5 | 828.9 | 623.2 | 413.7 | 315.6 | 34.6 | 8.9 | 6.5 | 7.5 | 8.9 |
| 30° | 1184.7 | 1135.6 | 993.9 | 763.9 | 503.5 | 383.4 | 36.5 | 8.4 | 6.1 | 7.5 | 8.9 |
| 31° | 1374.5 | 1300.1 | 1128.6 | 883.1 | 580.6 | 451.1 | 38.3 | 7.5 | 5.6 | 7.0 | 8.4 |
| 32° | 1528.3 | 1476.4 | 1294.1 | 1017.8 | 682.1 | 525.9 | 39.7 | 7.0 | 5.6 | 7.0 | 8.4 |
| 33° | 1677.0 | 1607.3 | 1431.0 | 1146.8 | 773.7 | 602.6 | 41.1 | 6.5 | 5.1 | 6.5 | 8.4 |
| 34° | 1819.1 | 1755.0 | 1560.5 | 1251.1 | 860.2 | 675.5 | 42.1 | 5.6 | 5.1 | 6.5 | 7.9 |
| 35° | 1944.4 | 1870.0 | 1674.6 | 1353.0 | 949.0 | 741.9 | 42.1 | 5.1 | 4.7 | 6.1 | 7.9 |
| 36° | 2025.7 | 1972.4 | 1773.7 | 1453.5 | 1029.5 | 805.0 | 42.1 | 4.7 | 4.2 | 6.1 | 7.5 |
| 37° | 2095.4 | 2033.2 | 1853.2 | 1530.6 | 1088.8 | 855.5 | 42.1 | 4.2 | 4.2 | 6.1 | 7.5 |
| 38° | 2123.9 | 2070.6 | 1907.9 | 1598.9 | 1144.5 | 907.0 | 41.6 | 3.7 | 3.7 | 5.6 | 7.5 |
| 39° | 2135.1 | 2087.4 | 1949.0 | 1648.0 | 1185.6 | 941.6 | 40.7 | 3.3 | 3.7 | 5.6 | 7.5 |
| 40° | 2120.6 | 2084.6 | 1970.1 | 1679.8 | 1218.3 | 966.8 | 39.3 | 2.8 | 3.3 | 5.6 | 7.5 |
| 42.5° | 2060.8 | 2036.9 | 1965.4 | 1711.5 | 1246.4 | 985.5 | 34.1 | 1.9 | 3.3 | 5.1 | 7.5 |
| 45° | 2007.5 | 1981.3 | 1918.2 | 1678.4 | 1209.9 | 948.6 | 25.7 | 0.9 | 3.3 | 5.1 | 7.5 |
| 47.5° | 1904.2 | 1887.8 | 1838.2 | 1593.7 | 1130.0 | 865.4 | 18.2 | 0.5 | 2.8 | 4.7 | 7.0 |
| 50° | 1697.1 | 1681.6 | 1616.2 | 1383.8 | 972.0 | 731.7 | 13.1 | 0.5 | 2.3 | 4.7 | 7.0 |
| 52.5° | 1511.5 | 1495.1 | 1401.1 | 1150.5 | 746.6 | 536.2 | 8.4 | 0.5 | 2.3 | 4.7 | 7.0 |
| 55° | 1287.1 | 1258.5 | 1135.1 | 873.3 | 529.2 | 359.5 | 6.1 | 0.5 | 2.3 | 4.2 | 7.0 |
| 57.5° | 952.8 | 911.2 | 800.8 | 595.6 | 304.8 | 195.0 | 3.3 | 0.5 | 2.3 | 4.2 | 7.0 |
| 60° | 648.0 | 623.2 | 501.2 | 314.2 | 130.0 | 82.3 | 1.4 | 0.5 | 2.3 | 4.2 | 6.5 |
| 62.5° | 392.7 | 361.4 | 252.0 | 133.7 | 56.1 | 37.4 | 0.0 | 0.9 | 2.3 | 4.2 | 6.5 |
| 65° | 111.7 | 99.1 | 65.9 | 30.4 | 15.9 | 12.2 | 0.0 | 0.9 | 2.3 | 4.2 | 6.5 |
| 67.5° | 3.7 | 3.7 | 3.7 | 3.3 | 2.3 | 2.3 | 0.5 | 0.9 | 2.3 | 4.2 | 6.1 |
| 70° | 1.4 | 1.4 | 1.4 | 0.9 | 0.9 | 0.5 | 0.5 | 0.9 | 2.3 | 3.7 | 6.1 |
| 72.5° | 0.9 | 0.9 | 0.9 | 0.9 | 0.5 | 0.5 | 0.5 | 0.9 | 1.9 | 3.3 | 5.6 |
| 75° | 0.9 | 0.9 | 0.9 | 0.5 | 0.5 | 0.5 | 0.5 | 1.4 | 1.9 | 3.3 | 4.7 |
| 77.5° | 0.9 | 0.9 | 0.9 | 0.5 | 0.5 | 0.5 | 0.5 | 1.4 | 1.9 | 2.8 | 4.7 |
| 80° | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 1.4 | 1.9 | 2.8 | 3.7 |



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CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° |
|-------|-----|-----|-----|-----|-----|-------|-----|-------|-----|--------|------|
| 82.5° | 0.5 | 0.5 | 0.5 | 0.0 | 0.0 | 0.0 | 0.5 | 1.4 | 1.9 | 1.9 | 2.8 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.5 | 1.4 | 1.9 | 1.4 | 1.9 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.5 | 1.4 | 1.4 | 1.4 | 0.9 |
| 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: P1307800

CATALOG NUMBER: LDSQA3D05R309027DE010 3LSQCA45R 1MW

CANDELA DISTRIBUTION (continued):

| | 157.5° | 180° |
|-------|--------|------|
| 0° | 21.5 | 21.5 |
| 2.5° | 20.1 | 20.1 |
| 5° | 18.7 | 18.7 |
| 7.5° | 17.3 | 17.3 |
| 10° | 15.9 | 15.9 |
| 12.5° | 15.0 | 15.0 |
| 15° | 13.6 | 14.0 |
| 17.5° | 12.6 | 13.1 |
| 20° | 12.2 | 12.6 |
| 21° | 12.2 | 12.6 |
| 22° | 11.7 | 12.2 |
| 23° | 11.7 | 12.2 |
| 24° | 11.2 | 11.7 |
| 25° | 10.8 | 11.2 |
| 26° | 10.8 | 11.2 |
| 27° | 10.8 | 11.2 |
| 28° | 10.3 | 11.2 |
| 29° | 10.3 | 10.8 |
| 30° | 10.3 | 10.8 |
| 31° | 9.8 | 10.8 |
| 32° | 9.8 | 10.8 |
| 33° | 9.8 | 10.3 |
| 34° | 9.4 | 10.3 |
| 35° | 9.4 | 10.3 |
| 36° | 9.4 | 10.3 |
| 37° | 9.4 | 9.8 |
| 38° | 9.4 | 10.3 |
| 39° | 9.4 | 9.8 |
| 40° | 9.4 | 9.8 |
| 42.5° | 9.4 | 9.8 |
| 45° | 9.4 | 9.8 |
| 47.5° | 9.4 | 10.3 |
| 50° | 9.4 | 10.3 |
| 52.5° | 9.4 | 10.3 |
| 55° | 9.4 | 10.3 |
| 57.5° | 9.4 | 9.8 |
| 60° | 9.4 | 9.8 |
| 62.5° | 8.9 | 9.8 |
| 65° | 8.9 | 9.4 |
| 67.5° | 8.9 | 9.4 |
| 70° | 8.4 | 8.9 |
| 72.5° | 7.9 | 8.4 |
| 75° | 7.0 | 7.9 |
| 77.5° | 6.5 | 7.0 |
| 80° | 5.6 | 6.1 |



TEST NUMBER: P1307800
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CANDELA DISTRIBUTION (continued):

| | 157.5° | 180° |
|-------|--------|------|
| 82.5° | 4.7 | 4.7 |
| 85° | 3.3 | 3.7 |
| 87.5° | 1.9 | 1.9 |
| 90° | 0.0 | 0.0 |

(END OF REPORT)