

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: P1309243

Luminaire Tested: LDSQA3D13R309030DE010 3LSQCA45R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1309243
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: LDSQA3D13R309030DE010 3LSQCA45R 1MW
Description: 3in Adjustable LED luminaire with, R30 optic, 3000K CCT AND, 90CRI , 3LSQCA45R 1MW TRIM
Light Source: -
Ballast/Driver: -

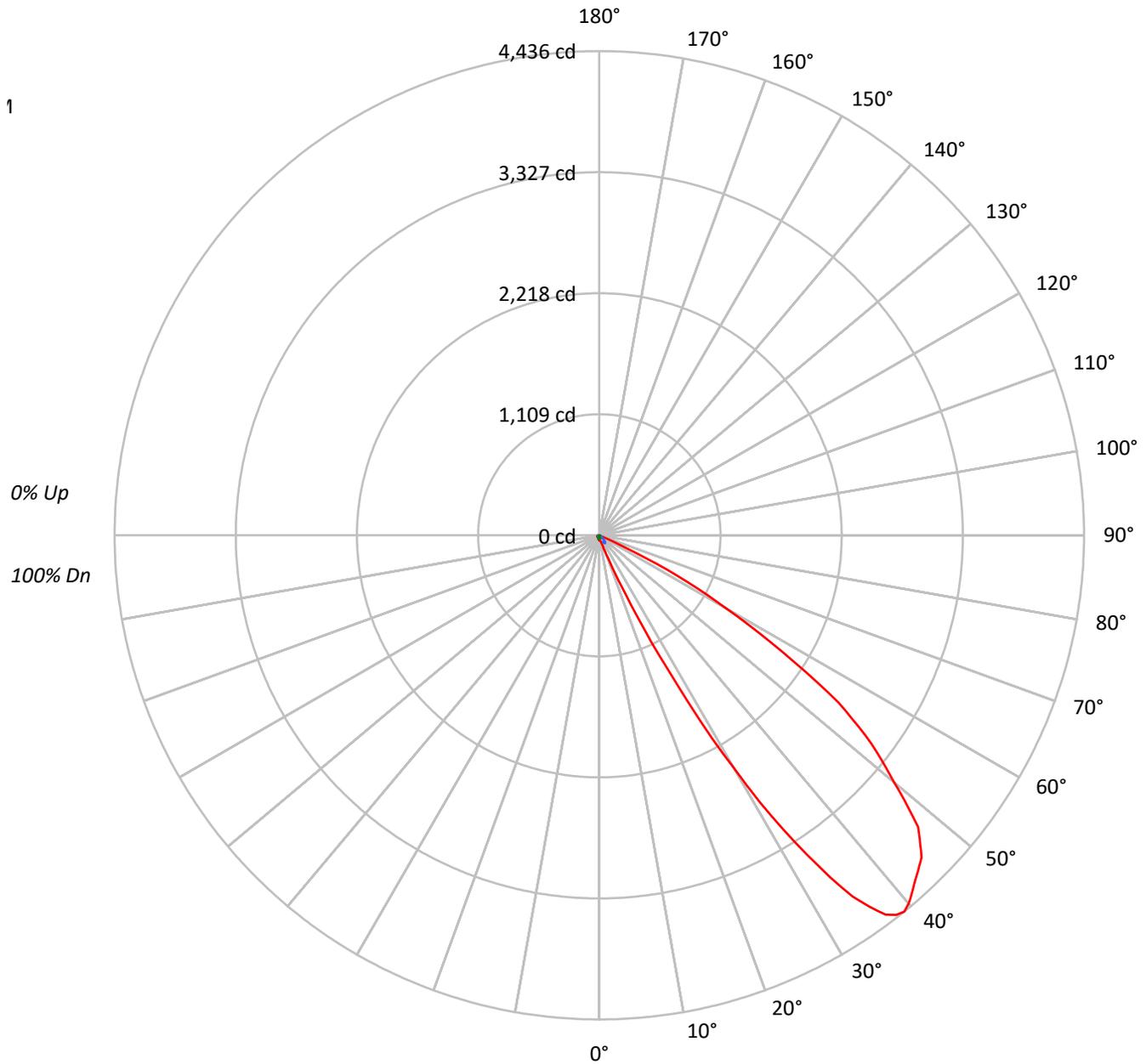
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1153.0 lumens
Efficiency: N/A
Efficacy: 79.0 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): 14.6
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 | | | |
| 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 | 102 | 102 | 100 |
| 1 | 110 | 106 | 102 | 99 | 108 | 104 | 100 | 97 | 100 | 97 | 94 | 96 | 93 | 91 | 92 | 90 | 89 | 89 | 89 | 87 |
| 2 | 100 | 93 | 86 | 81 | 98 | 91 | 85 | 80 | 87 | 83 | 78 | 84 | 80 | 77 | 81 | 78 | 75 | 75 | 75 | 73 |
| 3 | 91 | 81 | 73 | 67 | 89 | 79 | 72 | 66 | 76 | 70 | 65 | 74 | 68 | 64 | 71 | 67 | 63 | 63 | 63 | 61 |
| 4 | 83 | 71 | 62 | 55 | 80 | 69 | 61 | 55 | 67 | 60 | 54 | 64 | 58 | 53 | 62 | 57 | 52 | 52 | 52 | 50 |
| 5 | 75 | 62 | 52 | 46 | 73 | 60 | 52 | 45 | 58 | 51 | 45 | 56 | 50 | 44 | 54 | 49 | 44 | 44 | 44 | 42 |
| 6 | 68 | 54 | 45 | 38 | 66 | 53 | 44 | 38 | 51 | 43 | 37 | 49 | 42 | 37 | 48 | 42 | 37 | 37 | 37 | 35 |
| 7 | 62 | 48 | 38 | 32 | 60 | 47 | 38 | 32 | 45 | 37 | 31 | 44 | 36 | 31 | 42 | 36 | 31 | 31 | 31 | 29 |
| 8 | 56 | 42 | 33 | 27 | 55 | 41 | 33 | 27 | 40 | 32 | 26 | 39 | 32 | 26 | 37 | 31 | 26 | 26 | 26 | 24 |
| 9 | 52 | 37 | 29 | 23 | 50 | 37 | 28 | 23 | 36 | 28 | 22 | 34 | 27 | 22 | 33 | 27 | 22 | 22 | 22 | 20 |
| 10 | 48 | 33 | 25 | 19 | 46 | 33 | 25 | 19 | 32 | 24 | 19 | 31 | 24 | 19 | 30 | 24 | 19 | 19 | 19 | 17 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° | 135° | 180° |
|-----|---------|-------|------|------|-------|
| 0° | 7698 | 7698 | 7698 | 7698 | 7698 |
| 5° | 8229 | 8056 | 7555 | 6881 | 6708 |
| 10° | 9006 | 7975 | 6628 | 5946 | 5771 |
| 15° | 13158 | 7970 | 5545 | 5028 | 5188 |
| 20° | 33118 | 8724 | 4270 | 4270 | 4802 |
| 25° | 153732 | 10889 | 3325 | 3877 | 4428 |
| 30° | 489428 | 15074 | 2506 | 3679 | 4435 |
| 35° | 849264 | 18375 | 2039 | 3469 | 4499 |
| 40° | 990448 | 18345 | 1529 | 3485 | 4586 |
| 45° | 1015765 | 13006 | 1656 | 3775 | 4969 |
| 50° | 944617 | 7288 | 1313 | 3912 | 5734 |
| 55° | 802838 | 3783 | 1471 | 4384 | 6426 |
| 60° | 463658 | 999 | 1688 | 4684 | 7027 |
| 65° | 94584 | 0 | 1997 | 5542 | 7906 |
| 70° | 1460 | 504 | 2467 | 6345 | 9316 |
| 75° | 1264 | 665 | 2595 | 6455 | 10979 |
| 80° | 992 | 992 | 3868 | 7736 | 12497 |
| 85° | 0 | 1976 | 7707 | 7707 | 15413 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1015765 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 4.0 | 0.4 |
| 10°-20° | 11.6 | 1.0 |
| 20°-30° | 66.5 | 5.8 |
| 30°-40° | 310.6 | 26.9 |
| 40°-50° | 439.2 | 38.1 |
| 50°-60° | 270.2 | 23.4 |
| 60°-70° | 41.2 | 3.6 |
| 70°-80° | 6.5 | 0.6 |
| 80°-90° | 3.3 | 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° | 82.2 | 7.1 |
| 0°-40° | 392.7 | 34.1 |
| 0°-60° | 1102.1 | 95.6 |
| 0°-90° | 1153.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 1153.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|-----|-----|------|------|------|
| 0° | 45 | 45 | 45 | 45 | 45 | |
| 5° | 48 | 47 | 44 | 40 | 39 | 5 |
| 15° | 74 | 45 | 31 | 28 | 29 | 26 |
| 25° | 809 | 57 | 18 | 20 | 23 | 498 |
| 35° | 4039 | 87 | 10 | 16 | 21 | 2424 |
| 45° | 4170 | 53 | 7 | 16 | 20 | 3162 |
| 55° | 2674 | 13 | 5 | 15 | 21 | 2275 |
| 65° | 232 | 0 | 5 | 14 | 19 | 420 |
| 75° | 2 | 1 | 4 | 10 | 16 | 2 |
| 85° | 0 | 1 | 4 | 4 | 8 | 0 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P1309243

CATALOG NUMBER: LDSQA3D13R309030DE010 3LSQCA45R 1MW

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° |
|-------|--------|--------|--------|--------|--------|--------|------|-------|------|--------|------|
| 0° | 44.7 | 44.7 | 44.7 | 44.7 | 44.7 | 44.7 | 44.7 | 44.7 | 44.7 | 44.7 | 44.7 |
| 2.5° | 45.6 | 45.6 | 46.6 | 46.6 | 45.6 | 46.6 | 46.6 | 46.6 | 44.7 | 43.7 | 41.8 |
| 5° | 47.6 | 47.6 | 47.6 | 48.6 | 47.6 | 47.6 | 46.6 | 45.6 | 43.7 | 40.8 | 39.8 |
| 7.5° | 49.5 | 49.5 | 48.6 | 49.5 | 48.6 | 48.6 | 46.6 | 44.7 | 41.8 | 38.8 | 36.9 |
| 10° | 51.5 | 51.5 | 50.5 | 50.5 | 49.5 | 49.5 | 45.6 | 42.7 | 37.9 | 35.0 | 34.0 |
| 12.5° | 57.3 | 57.3 | 56.3 | 55.4 | 53.4 | 52.4 | 44.7 | 39.8 | 34.0 | 31.1 | 30.1 |
| 15° | 73.8 | 72.8 | 70.9 | 68.0 | 63.1 | 62.2 | 44.7 | 36.9 | 31.1 | 28.2 | 28.2 |
| 17.5° | 101.0 | 100.0 | 97.1 | 89.4 | 80.6 | 77.7 | 44.7 | 33.0 | 27.2 | 25.3 | 25.3 |
| 20° | 180.7 | 172.9 | 158.3 | 138.9 | 118.5 | 107.8 | 47.6 | 29.1 | 23.3 | 22.3 | 23.3 |
| 21° | 236.0 | 228.2 | 209.8 | 177.7 | 141.8 | 130.1 | 49.5 | 28.2 | 22.3 | 21.4 | 23.3 |
| 22° | 321.5 | 312.7 | 274.9 | 231.2 | 179.7 | 159.3 | 50.5 | 26.2 | 20.4 | 20.4 | 22.3 |
| 23° | 448.7 | 434.1 | 370.0 | 300.1 | 224.4 | 195.2 | 52.4 | 25.3 | 19.4 | 20.4 | 21.4 |
| 24° | 587.6 | 575.0 | 502.1 | 397.2 | 286.5 | 244.8 | 54.4 | 24.3 | 18.5 | 18.5 | 20.4 |
| 25° | 809.0 | 794.5 | 665.3 | 501.2 | 363.2 | 294.3 | 57.3 | 22.3 | 17.5 | 17.5 | 20.4 |
| 26° | 1095.6 | 1028.5 | 856.6 | 645.9 | 447.7 | 369.1 | 60.2 | 21.4 | 16.5 | 17.5 | 19.4 |
| 27° | 1367.5 | 1312.1 | 1118.9 | 828.5 | 553.6 | 453.6 | 64.1 | 20.4 | 15.5 | 16.5 | 19.4 |
| 28° | 1724.9 | 1647.2 | 1403.4 | 1048.0 | 697.3 | 548.7 | 68.0 | 19.4 | 14.6 | 16.5 | 18.5 |
| 29° | 2125.1 | 2016.3 | 1722.0 | 1294.7 | 859.5 | 655.6 | 71.9 | 18.5 | 13.6 | 15.5 | 18.5 |
| 30° | 2461.1 | 2359.1 | 2064.9 | 1587.0 | 1046.0 | 796.4 | 75.8 | 17.5 | 12.6 | 15.5 | 18.5 |
| 31° | 2855.4 | 2701.0 | 2344.6 | 1834.7 | 1206.3 | 937.2 | 79.6 | 15.5 | 11.7 | 14.6 | 17.5 |
| 32° | 3175.0 | 3067.2 | 2688.4 | 2114.4 | 1417.0 | 1092.6 | 82.6 | 14.6 | 11.7 | 14.6 | 17.5 |
| 33° | 3483.8 | 3339.1 | 2973.0 | 2382.4 | 1607.4 | 1251.9 | 85.5 | 13.6 | 10.7 | 13.6 | 17.5 |
| 34° | 3779.1 | 3646.0 | 3242.0 | 2599.0 | 1787.1 | 1403.4 | 87.4 | 11.7 | 10.7 | 13.6 | 16.5 |
| 35° | 4039.4 | 3885.0 | 3479.0 | 2810.8 | 1971.6 | 1541.4 | 87.4 | 10.7 | 9.7 | 12.6 | 16.5 |
| 36° | 4208.4 | 4097.7 | 3684.9 | 3019.6 | 2138.7 | 1672.5 | 87.4 | 9.7 | 8.7 | 12.6 | 15.5 |
| 37° | 4353.1 | 4223.9 | 3850.0 | 3179.8 | 2262.0 | 1777.4 | 87.4 | 8.7 | 8.7 | 12.6 | 15.5 |
| 38° | 4412.3 | 4301.6 | 3963.6 | 3321.6 | 2377.6 | 1884.2 | 86.4 | 7.8 | 7.8 | 11.7 | 15.5 |
| 39° | 4435.6 | 4336.6 | 4049.1 | 3423.6 | 2463.1 | 1956.1 | 84.5 | 6.8 | 7.8 | 11.7 | 15.5 |
| 40° | 4405.5 | 4330.8 | 4092.8 | 3489.7 | 2531.0 | 2008.5 | 81.6 | 5.8 | 6.8 | 11.7 | 15.5 |
| 42.5° | 4281.2 | 4231.7 | 4083.1 | 3555.7 | 2589.3 | 2047.4 | 70.9 | 3.9 | 6.8 | 10.7 | 15.5 |
| 45° | 4170.5 | 4116.1 | 3985.0 | 3486.7 | 2513.6 | 1970.6 | 53.4 | 1.9 | 6.8 | 10.7 | 15.5 |
| 47.5° | 3955.9 | 3921.9 | 3818.9 | 3311.0 | 2347.5 | 1797.8 | 37.9 | 1.0 | 5.8 | 9.7 | 14.6 |
| 50° | 3525.6 | 3493.5 | 3357.6 | 2874.9 | 2019.2 | 1520.0 | 27.2 | 1.0 | 4.9 | 9.7 | 14.6 |
| 52.5° | 3140.0 | 3106.0 | 2910.8 | 2390.2 | 1551.1 | 1114.0 | 17.5 | 1.0 | 4.9 | 9.7 | 14.6 |
| 55° | 2673.8 | 2614.6 | 2358.2 | 1814.3 | 1099.4 | 746.9 | 12.6 | 1.0 | 4.9 | 8.7 | 14.6 |
| 57.5° | 1979.4 | 1892.9 | 1663.7 | 1237.4 | 633.2 | 405.0 | 6.8 | 1.0 | 4.9 | 8.7 | 14.6 |
| 60° | 1346.1 | 1294.7 | 1041.2 | 652.7 | 270.0 | 170.9 | 2.9 | 1.0 | 4.9 | 8.7 | 13.6 |
| 62.5° | 815.8 | 750.8 | 523.5 | 277.8 | 116.5 | 77.7 | 0.0 | 1.9 | 4.9 | 8.7 | 13.6 |
| 65° | 232.1 | 205.9 | 136.9 | 63.1 | 33.0 | 25.3 | 0.0 | 1.9 | 4.9 | 8.7 | 13.6 |
| 67.5° | 7.8 | 7.8 | 7.8 | 6.8 | 4.9 | 4.9 | 1.0 | 1.9 | 4.9 | 8.7 | 12.6 |
| 70° | 2.9 | 2.9 | 2.9 | 1.9 | 1.9 | 1.0 | 1.0 | 1.9 | 4.9 | 7.8 | 12.6 |
| 72.5° | 1.9 | 1.9 | 1.9 | 1.9 | 1.0 | 1.0 | 1.0 | 1.9 | 3.9 | 6.8 | 11.7 |
| 75° | 1.9 | 1.9 | 1.9 | 1.0 | 1.0 | 1.0 | 1.0 | 2.9 | 3.9 | 6.8 | 9.7 |
| 77.5° | 1.9 | 1.9 | 1.9 | 1.0 | 1.0 | 1.0 | 1.0 | 2.9 | 3.9 | 5.8 | 9.7 |
| 80° | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 2.9 | 3.9 | 5.8 | 7.8 |



TEST NUMBER: P1309243

CATALOG NUMBER: LDSQA3D13R309030DE010 3LSQCA45R 1MW

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° |
|-------|-----|-----|-----|-----|-----|-------|-----|-------|-----|--------|------|
| 82.5° | 1.0 | 1.0 | 1.0 | 0.0 | 0.0 | 0.0 | 1.0 | 2.9 | 3.9 | 3.9 | 5.8 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.0 | 2.9 | 3.9 | 2.9 | 3.9 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.0 | 2.9 | 2.9 | 2.9 | 1.9 |
| 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: P1309243

CATALOG NUMBER: LDSQA3D13R309030DE010 3LSQCA45R 1MW

CANDELA DISTRIBUTION (continued):

| | 157.5° | 180° |
|-------|--------|------|
| 0° | 44.7 | 44.7 |
| 2.5° | 41.8 | 41.8 |
| 5° | 38.8 | 38.8 |
| 7.5° | 35.9 | 35.9 |
| 10° | 33.0 | 33.0 |
| 12.5° | 31.1 | 31.1 |
| 15° | 28.2 | 29.1 |
| 17.5° | 26.2 | 27.2 |
| 20° | 25.3 | 26.2 |
| 21° | 25.3 | 26.2 |
| 22° | 24.3 | 25.3 |
| 23° | 24.3 | 25.3 |
| 24° | 23.3 | 24.3 |
| 25° | 22.3 | 23.3 |
| 26° | 22.3 | 23.3 |
| 27° | 22.3 | 23.3 |
| 28° | 21.4 | 23.3 |
| 29° | 21.4 | 22.3 |
| 30° | 21.4 | 22.3 |
| 31° | 20.4 | 22.3 |
| 32° | 20.4 | 22.3 |
| 33° | 20.4 | 21.4 |
| 34° | 19.4 | 21.4 |
| 35° | 19.4 | 21.4 |
| 36° | 19.4 | 21.4 |
| 37° | 19.4 | 20.4 |
| 38° | 19.4 | 21.4 |
| 39° | 19.4 | 20.4 |
| 40° | 19.4 | 20.4 |
| 42.5° | 19.4 | 20.4 |
| 45° | 19.4 | 20.4 |
| 47.5° | 19.4 | 21.4 |
| 50° | 19.4 | 21.4 |
| 52.5° | 19.4 | 21.4 |
| 55° | 19.4 | 21.4 |
| 57.5° | 19.4 | 20.4 |
| 60° | 19.4 | 20.4 |
| 62.5° | 18.5 | 20.4 |
| 65° | 18.5 | 19.4 |
| 67.5° | 18.5 | 19.4 |
| 70° | 17.5 | 18.5 |
| 72.5° | 16.5 | 17.5 |
| 75° | 14.6 | 16.5 |
| 77.5° | 13.6 | 14.6 |
| 80° | 11.7 | 12.6 |



TEST NUMBER: P1309243
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CANDELA DISTRIBUTION (continued):

| | 157.5° | 180° |
|-------|--------|------|
| 82.5° | 9.7 | 9.7 |
| 85° | 6.8 | 7.8 |
| 87.5° | 3.9 | 3.9 |
| 90° | 0.0 | 0.0 |

(END OF REPORT)