

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: P1319099

Luminaire Tested: LDSQA3D09R359835DE010 3LSQCA45R 1MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1319099
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-77)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D09R359835DE010 3LSQCA45R 1MMS
Description: 3in Adjustable LED luminaire with, R35 optic, 3500K CCT AND, 98CRI , 3LSQCA45R 1MMS TRII
Light Source: -
Ballast/Driver: -

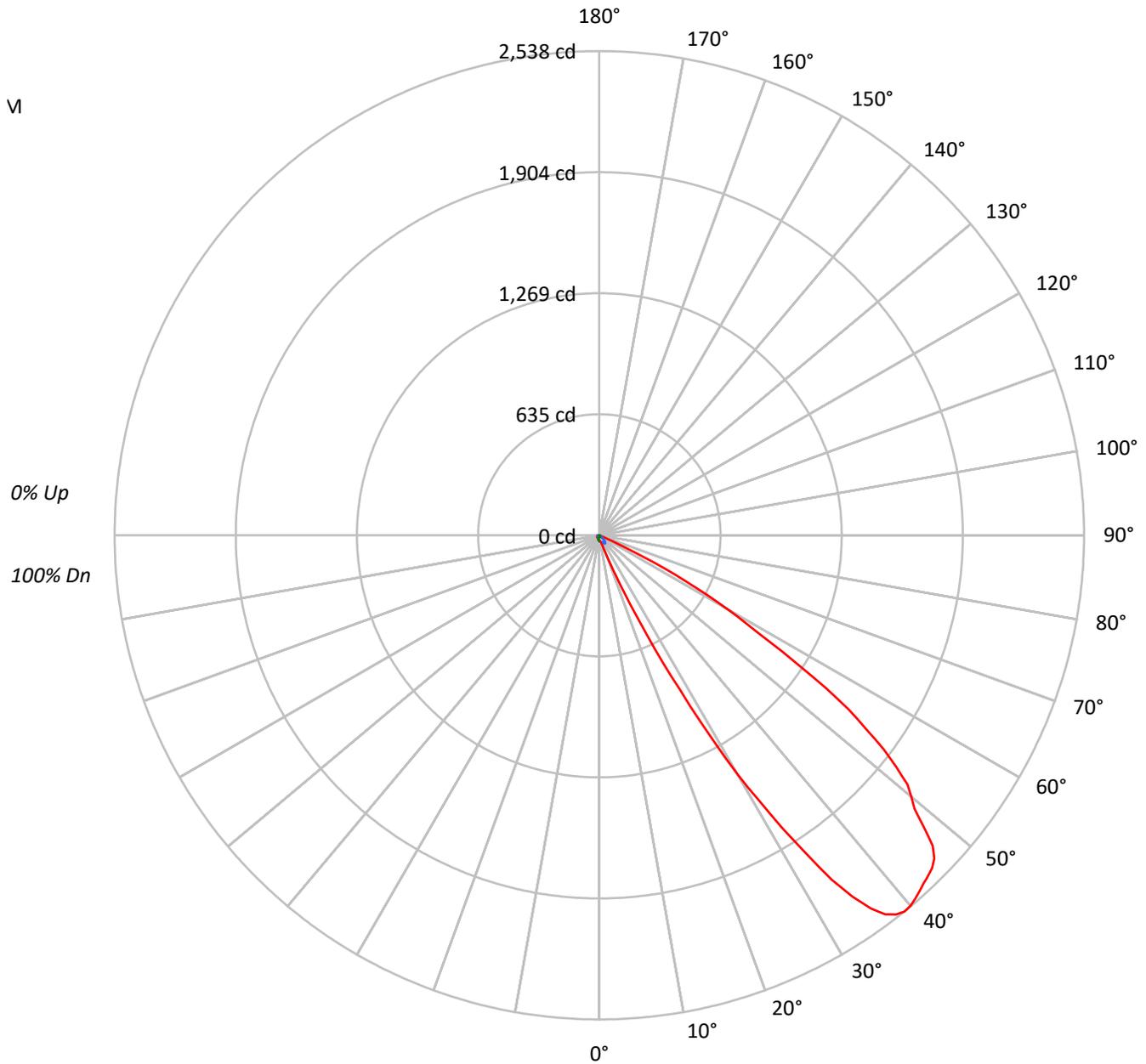
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 632.0 lumens
Efficiency: N/A
Efficacy: 57.5 lumens/watt
Spacing Criteria (0/90/45): 4.01 / 0.66 / 1.41
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 11
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: P1319099
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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 | 107 | 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 | 61 | 52 | 45 | 58 | 51 | 45 | 56 | 50 | 44 | 55 | 49 | 44 | 44 | 44 | 44 | 42 |
| 6 | 68 | 54 | 45 | 38 | 66 | 53 | 44 | 38 | 51 | 43 | 38 | 50 | 43 | 37 | 48 | 42 | 37 | 37 | 37 | 37 | 35 |
| 7 | 62 | 48 | 38 | 32 | 60 | 47 | 38 | 32 | 45 | 37 | 32 | 44 | 37 | 31 | 42 | 36 | 31 | 31 | 31 | 31 | 29 |
| 8 | 57 | 42 | 33 | 27 | 55 | 41 | 33 | 27 | 40 | 32 | 27 | 39 | 32 | 26 | 38 | 31 | 26 | 26 | 26 | 26 | 24 |
| 9 | 52 | 38 | 29 | 23 | 50 | 37 | 29 | 23 | 36 | 28 | 23 | 35 | 28 | 22 | 34 | 27 | 22 | 22 | 22 | 22 | 20 |
| 10 | 48 | 34 | 25 | 19 | 46 | 33 | 25 | 19 | 32 | 25 | 19 | 31 | 24 | 19 | 30 | 24 | 19 | 19 | 19 | 19 | 17 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° | 135° | 180° |
|-----|--------|-------|------|------|------|
| 0° | 5012 | 5012 | 5012 | 5012 | 5012 |
| 5° | 5428 | 5325 | 4927 | 4443 | 4339 |
| 10° | 5684 | 5194 | 4389 | 3795 | 3795 |
| 15° | 8130 | 5081 | 3566 | 3263 | 3352 |
| 20° | 20399 | 5443 | 2822 | 2822 | 3134 |
| 25° | 94652 | 6936 | 2166 | 2603 | 2926 |
| 30° | 287719 | 9426 | 1710 | 2386 | 2943 |
| 35° | 486276 | 10912 | 1430 | 2271 | 2880 |
| 40° | 570010 | 10769 | 1147 | 2316 | 3080 |
| 45° | 600277 | 7648 | 974 | 2509 | 3337 |
| 50° | 571389 | 4582 | 911 | 2599 | 3671 |
| 55° | 478796 | 1892 | 1021 | 2913 | 4294 |
| 60° | 268047 | 379 | 1171 | 3341 | 4719 |
| 65° | 46253 | 245 | 1182 | 3708 | 5338 |
| 70° | 856 | 302 | 1460 | 4028 | 6043 |
| 75° | 732 | 399 | 1930 | 4525 | 6854 |
| 80° | 595 | 595 | 2281 | 5058 | 7934 |
| 85° | 0 | 1186 | 4545 | 5730 | 9090 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 46°
 Luminance: 604538 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 2.6 | 0.4 |
| 10°-20° | 7.4 | 1.2 |
| 20°-30° | 38.8 | 6.1 |
| 30°-40° | 167.5 | 26.5 |
| 40°-50° | 238.9 | 37.8 |
| 50°-60° | 148.0 | 23.4 |
| 60°-70° | 22.5 | 3.6 |
| 70°-80° | 4.2 | 0.7 |
| 80°-90° | 2.1 | 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° | 48.9 | 7.7 |
| 0°-40° | 216.3 | 34.2 |
| 0°-60° | 603.2 | 95.4 |
| 0°-90° | 632.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 632.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|-----|-----|------|------|------|
| 0° | 29 | 29 | 29 | 29 | 29 | |
| 5° | 31 | 31 | 28 | 26 | 25 | 3 |
| 15° | 46 | 28 | 20 | 18 | 19 | 16 |
| 25° | 498 | 36 | 11 | 14 | 15 | 298 |
| 35° | 2313 | 52 | 7 | 11 | 14 | 1389 |
| 45° | 2465 | 31 | 4 | 10 | 14 | 1862 |
| 55° | 1595 | 6 | 3 | 10 | 14 | 1358 |
| 65° | 114 | 1 | 3 | 9 | 13 | 232 |
| 75° | 1 | 1 | 3 | 7 | 10 | 1 |
| 85° | 0 | 1 | 2 | 3 | 5 | 0 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P1319099

CATALOG NUMBER: LDSQA3D09R359835DE010 3LSQCA45R 1MMS

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 45° | 67.5° | 90° | 112.5° |
|-------|--------|--------|--------|--------|--------|-------|-------|------|-------|------|--------|
| 0° | 29.1 | 29.1 | 29.1 | 29.1 | 29.1 | 29.1 | 29.1 | 29.1 | 29.1 | 29.1 | 29.1 |
| 2.5° | 30.2 | 30.2 | 30.2 | 30.2 | 30.2 | 30.2 | 30.2 | 30.2 | 30.2 | 29.1 | 28.5 |
| 5° | 31.4 | 31.4 | 30.8 | 30.8 | 30.8 | 30.8 | 30.8 | 30.8 | 29.7 | 28.5 | 26.8 |
| 7.5° | 31.9 | 31.9 | 31.4 | 31.4 | 31.4 | 31.4 | 30.8 | 30.2 | 29.1 | 26.8 | 25.1 |
| 10° | 32.5 | 32.5 | 32.5 | 32.5 | 31.9 | 31.4 | 30.8 | 29.7 | 28.0 | 25.1 | 23.4 |
| 12.5° | 36.5 | 36.5 | 35.9 | 34.8 | 33.7 | 32.5 | 31.4 | 29.1 | 25.7 | 22.8 | 21.1 |
| 15° | 45.6 | 45.1 | 43.9 | 42.2 | 39.9 | 37.1 | 34.8 | 28.5 | 23.4 | 20.0 | 18.8 |
| 17.5° | 63.9 | 62.8 | 61.0 | 55.3 | 50.2 | 45.1 | 40.5 | 28.5 | 21.1 | 17.7 | 16.5 |
| 20° | 111.3 | 111.8 | 99.8 | 86.1 | 74.7 | 62.2 | 50.8 | 29.7 | 18.8 | 15.4 | 14.8 |
| 22.5° | 232.2 | 223.1 | 194.5 | 161.5 | 123.2 | 95.3 | 71.9 | 32.5 | 16.5 | 13.1 | 13.1 |
| 25° | 498.1 | 463.3 | 394.2 | 297.8 | 209.9 | 148.9 | 104.4 | 36.5 | 14.8 | 11.4 | 12.0 |
| 27.5° | 909.4 | 878.0 | 739.4 | 556.8 | 369.7 | 224.8 | 141.5 | 41.6 | 13.1 | 9.7 | 10.8 |
| 30° | 1446.8 | 1360.1 | 1179.3 | 912.8 | 617.9 | 344.0 | 190.0 | 47.4 | 10.8 | 8.6 | 10.3 |
| 31° | 1614.6 | 1574.6 | 1354.4 | 1056.0 | 724.0 | 408.5 | 210.5 | 49.1 | 10.3 | 8.6 | 9.7 |
| 32° | 1813.7 | 1742.9 | 1545.5 | 1212.9 | 831.8 | 466.1 | 235.1 | 50.8 | 9.7 | 7.4 | 9.7 |
| 33° | 1991.7 | 1923.2 | 1683.0 | 1351.0 | 940.8 | 531.7 | 261.3 | 51.3 | 8.6 | 7.4 | 9.1 |
| 34° | 2178.8 | 2085.2 | 1847.3 | 1495.3 | 1052.6 | 602.5 | 285.3 | 51.9 | 8.0 | 6.8 | 9.1 |
| 35° | 2312.9 | 2219.3 | 1988.8 | 1609.4 | 1149.0 | 665.2 | 312.6 | 51.9 | 7.4 | 6.8 | 8.6 |
| 36° | 2416.7 | 2334.5 | 2110.9 | 1726.9 | 1244.9 | 721.7 | 334.3 | 51.9 | 6.3 | 6.3 | 8.6 |
| 37° | 2488.0 | 2409.9 | 2193.1 | 1827.9 | 1317.9 | 771.9 | 353.7 | 51.9 | 5.7 | 6.3 | 8.6 |
| 38° | 2522.8 | 2457.8 | 2272.4 | 1901.5 | 1388.6 | 811.3 | 369.1 | 50.8 | 5.1 | 5.7 | 8.0 |
| 39° | 2537.7 | 2484.6 | 2320.9 | 1963.7 | 1441.7 | 845.5 | 380.5 | 49.6 | 4.6 | 5.7 | 8.0 |
| 40° | 2535.4 | 2489.2 | 2348.2 | 2006.5 | 1484.5 | 868.9 | 386.8 | 47.9 | 4.0 | 5.1 | 8.0 |
| 41° | 2522.2 | 2482.3 | 2362.5 | 2043.0 | 1510.2 | 884.9 | 388.5 | 46.2 | 3.4 | 5.1 | 7.4 |
| 42° | 2507.4 | 2470.9 | 2367.1 | 2062.4 | 1526.7 | 890.0 | 384.0 | 43.9 | 3.4 | 4.6 | 7.4 |
| 43° | 2492.0 | 2458.4 | 2367.1 | 2068.7 | 1530.7 | 886.6 | 376.5 | 39.9 | 2.9 | 4.6 | 7.4 |
| 44° | 2479.5 | 2447.5 | 2359.7 | 2067.0 | 1522.1 | 873.5 | 362.8 | 35.4 | 2.3 | 4.6 | 7.4 |
| 45° | 2464.6 | 2433.2 | 2350.0 | 2056.1 | 1505.6 | 851.2 | 345.7 | 31.4 | 1.7 | 4.0 | 7.4 |
| 46° | 2438.4 | 2413.9 | 2332.8 | 2033.9 | 1479.3 | 820.4 | 324.1 | 28.5 | 1.1 | 4.0 | 6.8 |
| 47° | 2387.6 | 2366.5 | 2299.7 | 2000.8 | 1444.5 | 783.9 | 301.8 | 25.7 | 1.1 | 4.0 | 6.8 |
| 48° | 2285.5 | 2284.9 | 2233.6 | 1939.2 | 1389.2 | 738.2 | 278.4 | 22.8 | 1.1 | 4.0 | 6.8 |
| 49° | 2186.8 | 2176.5 | 2112.6 | 1830.8 | 1309.9 | 683.5 | 253.9 | 20.5 | 0.6 | 4.0 | 6.8 |
| 50° | 2132.6 | 2110.3 | 2005.4 | 1703.0 | 1208.4 | 607.6 | 227.6 | 17.1 | 0.6 | 3.4 | 6.8 |
| 51° | 2076.1 | 2044.2 | 1920.4 | 1587.7 | 1087.4 | 534.6 | 199.1 | 13.7 | 0.6 | 3.4 | 6.3 |
| 52° | 1974.0 | 1943.7 | 1805.1 | 1477.6 | 969.9 | 459.8 | 171.7 | 11.4 | 0.6 | 3.4 | 6.8 |
| 53° | 1863.9 | 1820.5 | 1669.9 | 1356.7 | 866.6 | 393.7 | 143.8 | 9.7 | 0.6 | 3.4 | 6.3 |
| 54° | 1725.2 | 1705.8 | 1533.0 | 1208.4 | 745.7 | 329.8 | 118.1 | 8.0 | 0.6 | 3.4 | 6.3 |
| 55° | 1594.6 | 1566.1 | 1386.4 | 1056.6 | 636.1 | 270.4 | 98.7 | 6.3 | 0.6 | 3.4 | 6.3 |
| 56° | 1428.0 | 1385.2 | 1216.9 | 917.4 | 524.9 | 217.9 | 83.3 | 5.1 | 0.6 | 3.4 | 6.3 |
| 57° | 1229.5 | 1183.8 | 1050.9 | 762.8 | 411.9 | 166.0 | 69.6 | 4.0 | 0.6 | 3.4 | 6.3 |
| 58° | 1040.0 | 1000.7 | 858.1 | 588.8 | 310.4 | 115.2 | 57.6 | 2.9 | 0.6 | 2.9 | 6.3 |
| 59° | 898.6 | 855.2 | 713.7 | 453.0 | 215.7 | 85.0 | 43.4 | 2.3 | 0.6 | 3.4 | 6.3 |
| 60° | 778.2 | 722.3 | 574.5 | 350.9 | 154.0 | 61.0 | 31.9 | 1.1 | 1.1 | 3.4 | 6.3 |
| 62.5° | 448.4 | 395.9 | 274.4 | 142.6 | 63.3 | 31.4 | 15.4 | 0.6 | 1.1 | 3.4 | 6.3 |
| 65° | 113.5 | 101.0 | 65.6 | 30.8 | 17.7 | 10.8 | 5.7 | 0.6 | 1.1 | 2.9 | 5.7 |



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CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 45° | 67.5° | 90° | 112.5° |
|-------|-----|-----|-----|-----|-----|-----|-----|-----|-------|-----|--------|
| 67.5° | 4.0 | 4.0 | 4.0 | 3.4 | 2.9 | 2.3 | 1.1 | 0.6 | 1.1 | 2.9 | 5.7 |
| 70° | 1.7 | 1.7 | 1.7 | 1.1 | 1.1 | 0.6 | 0.6 | 0.6 | 1.1 | 2.9 | 5.1 |
| 72.5° | 1.1 | 1.1 | 1.1 | 1.1 | 0.6 | 0.6 | 0.6 | 0.6 | 1.7 | 2.9 | 4.6 |
| 75° | 1.1 | 1.1 | 1.1 | 1.1 | 0.6 | 0.6 | 0.6 | 0.6 | 1.7 | 2.9 | 4.6 |
| 77.5° | 1.1 | 1.1 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 1.7 | 2.3 | 4.0 |
| 80° | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 1.7 | 2.3 | 3.4 |
| 82.5° | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 1.7 | 2.3 | 2.9 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.6 | 0.0 | 0.6 | 1.7 | 2.3 | 2.3 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.6 | 1.7 | 2.3 | 1.7 |
| 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):

| | 135° | 157.5° | 180° |
|-------|------|--------|------|
| 0° | 29.1 | 29.1 | 29.1 |
| 2.5° | 27.4 | 27.4 | 27.4 |
| 5° | 25.7 | 25.7 | 25.1 |
| 7.5° | 24.0 | 23.4 | 23.4 |
| 10° | 21.7 | 21.7 | 21.7 |
| 12.5° | 20.0 | 20.0 | 20.0 |
| 15° | 18.3 | 18.8 | 18.8 |
| 17.5° | 16.5 | 17.7 | 17.7 |
| 20° | 15.4 | 16.5 | 17.1 |
| 22.5° | 14.3 | 15.4 | 16.0 |
| 25° | 13.7 | 14.8 | 15.4 |
| 27.5° | 12.6 | 14.3 | 15.4 |
| 30° | 12.0 | 13.7 | 14.8 |
| 31° | 12.0 | 13.7 | 14.3 |
| 32° | 11.4 | 13.7 | 14.3 |
| 33° | 11.4 | 13.7 | 14.3 |
| 34° | 11.4 | 13.1 | 14.3 |
| 35° | 10.8 | 13.1 | 13.7 |
| 36° | 10.8 | 13.1 | 13.7 |
| 37° | 10.8 | 13.1 | 14.3 |
| 38° | 10.8 | 13.1 | 13.7 |
| 39° | 10.3 | 13.1 | 13.7 |
| 40° | 10.3 | 13.1 | 13.7 |
| 41° | 10.3 | 13.1 | 13.7 |
| 42° | 10.3 | 13.1 | 13.7 |
| 43° | 10.3 | 13.1 | 13.7 |
| 44° | 10.3 | 12.6 | 13.7 |
| 45° | 10.3 | 12.6 | 13.7 |
| 46° | 10.3 | 13.1 | 13.7 |
| 47° | 10.3 | 13.1 | 14.3 |
| 48° | 10.3 | 12.6 | 13.7 |
| 49° | 9.7 | 12.6 | 13.7 |
| 50° | 9.7 | 12.6 | 13.7 |
| 51° | 9.7 | 13.1 | 14.3 |
| 52° | 9.7 | 13.1 | 14.3 |
| 53° | 9.7 | 13.1 | 14.3 |
| 54° | 9.7 | 13.1 | 13.7 |
| 55° | 9.7 | 13.1 | 14.3 |
| 56° | 9.7 | 13.1 | 13.7 |
| 57° | 9.7 | 13.1 | 13.7 |
| 58° | 9.7 | 12.6 | 13.7 |
| 59° | 9.7 | 12.6 | 13.7 |
| 60° | 9.7 | 12.6 | 13.7 |
| 62.5° | 9.1 | 12.6 | 13.7 |
| 65° | 9.1 | 12.0 | 13.1 |



TEST NUMBER: P1319099
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CANDELA DISTRIBUTION (continued):

| | 135° | 157.5° | 180° |
|-------|------|--------|------|
| 67.5° | 8.6 | 12.0 | 12.6 |
| 70° | 8.0 | 11.4 | 12.0 |
| 72.5° | 7.4 | 10.8 | 11.4 |
| 75° | 6.8 | 9.7 | 10.3 |
| 77.5° | 5.7 | 8.6 | 9.7 |
| 80° | 5.1 | 7.4 | 8.0 |
| 82.5° | 4.0 | 6.3 | 6.8 |
| 85° | 2.9 | 4.6 | 4.6 |
| 87.5° | 1.1 | 2.3 | 2.3 |
| 90° | 0.0 | 0.0 | 0.0 |

(END OF REPORT)