

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: P1310827

Luminaire Tested: LDSQA3D24R359035D010 3LSQCA45R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1310827
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: LDSQA3D24R359035D010 3LSQCA45R 1MW
Description: 3in Adjustable LED luminaire with, R35 optic, 3500K CCT AND, 90CRI , 3LSQCA45R 1MW TRIM
Light Source: -
Ballast/Driver: -

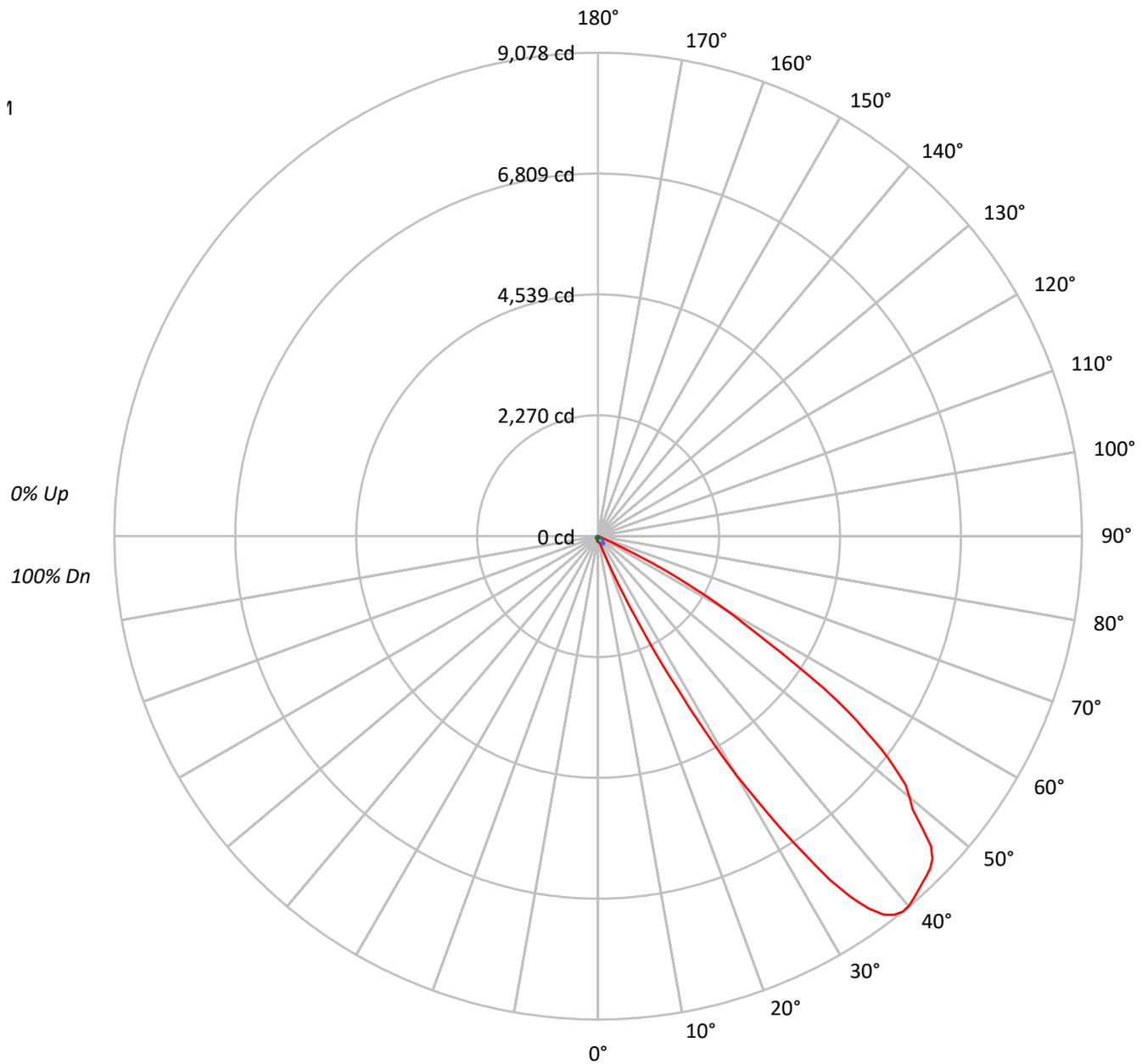
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2261.0 lumens
Efficiency: N/A
Efficacy: 78.5 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): 28.8
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: P1310827
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Luminous Intensity Polar Plot



— 0°-180° - - - 45°-225° ····· 90°-270°



TEST NUMBER: P1310827

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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° | 17928 | 17928 | 17928 | 17928 | 17928 |
| 5° | 19414 | 19051 | 17651 | 15870 | 15525 |
| 10° | 20338 | 18555 | 15704 | 13571 | 13571 |
| 15° | 29116 | 18204 | 12730 | 11643 | 12017 |
| 20° | 72944 | 19446 | 10098 | 10098 | 11216 |
| 25° | 338590 | 24817 | 7753 | 9311 | 10470 |
| 30° | 1029348 | 33688 | 6085 | 8531 | 10560 |
| 35° | 1739651 | 39043 | 5151 | 8158 | 10302 |
| 40° | 2039214 | 38534 | 4137 | 8251 | 11016 |
| 45° | 2147538 | 27352 | 3483 | 8939 | 11934 |
| 50° | 2044152 | 16397 | 3269 | 9297 | 13129 |
| 55° | 1712899 | 6756 | 3663 | 10419 | 15313 |
| 60° | 958936 | 1412 | 4202 | 11952 | 16878 |
| 65° | 165532 | 815 | 4157 | 13326 | 19112 |
| 70° | 3072 | 1007 | 5136 | 14401 | 21602 |
| 75° | 2728 | 1331 | 6787 | 16303 | 24421 |
| 80° | 1984 | 1984 | 8133 | 18249 | 28365 |
| 85° | 0 | 3952 | 16203 | 20156 | 32209 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 46°
 Luminance: 2162742 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 9.4 | 0.4 |
| 10°-20° | 26.6 | 1.2 |
| 20°-30° | 138.7 | 6.1 |
| 30°-40° | 599.1 | 26.5 |
| 40°-50° | 854.6 | 37.8 |
| 50°-60° | 529.3 | 23.4 |
| 60°-70° | 80.6 | 3.6 |
| 70°-80° | 15.0 | 0.7 |
| 80°-90° | 7.5 | 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° | 174.8 | 7.7 |
| 0°-40° | 773.9 | 34.2 |
| 0°-60° | 2157.8 | 95.4 |
| 0°-90° | 2261.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 2261.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|-----|-----|------|------|------|
| 0° | 104 | 104 | 104 | 104 | 104 | |
| 5° | 112 | 110 | 102 | 92 | 90 | 11 |
| 15° | 163 | 102 | 71 | 65 | 67 | 59 |
| 25° | 1782 | 131 | 41 | 49 | 55 | 1066 |
| 35° | 8274 | 186 | 24 | 39 | 49 | 4968 |
| 45° | 8817 | 112 | 14 | 37 | 49 | 6661 |
| 55° | 5705 | 22 | 12 | 35 | 51 | 4859 |
| 65° | 406 | 2 | 10 | 33 | 47 | 830 |
| 75° | 4 | 2 | 10 | 24 | 37 | 4 |
| 85° | 0 | 2 | 8 | 10 | 16 | 1 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P1310827

CATALOG NUMBER: LDSQA3D24R359035D010 3LSQCA45R 1MW

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 45° | 67.5° | 90° | 112.5° |
|-------|--------|--------|--------|--------|--------|--------|--------|-------|-------|-------|--------|
| 0° | 104.1 | 104.1 | 104.1 | 104.1 | 104.1 | 104.1 | 104.1 | 104.1 | 104.1 | 104.1 | 104.1 |
| 2.5° | 108.2 | 108.2 | 108.2 | 108.2 | 108.2 | 108.2 | 108.2 | 108.2 | 108.2 | 104.1 | 102.1 |
| 5° | 112.3 | 112.3 | 110.2 | 110.2 | 110.2 | 110.2 | 110.2 | 110.2 | 106.1 | 102.1 | 95.9 |
| 7.5° | 114.3 | 114.3 | 112.3 | 112.3 | 112.3 | 112.3 | 110.2 | 108.2 | 104.1 | 95.9 | 89.8 |
| 10° | 116.3 | 116.3 | 116.3 | 116.3 | 114.3 | 112.3 | 110.2 | 106.1 | 100.0 | 89.8 | 83.7 |
| 12.5° | 130.6 | 130.6 | 128.6 | 124.5 | 120.4 | 116.3 | 112.3 | 104.1 | 91.8 | 81.6 | 75.5 |
| 15° | 163.3 | 161.2 | 157.2 | 151.0 | 142.9 | 132.7 | 124.5 | 102.1 | 83.7 | 71.4 | 67.4 |
| 17.5° | 228.6 | 224.5 | 218.4 | 198.0 | 179.6 | 161.2 | 144.9 | 102.1 | 75.5 | 63.3 | 59.2 |
| 20° | 398.0 | 400.0 | 357.2 | 308.2 | 267.4 | 222.5 | 181.7 | 106.1 | 67.4 | 55.1 | 53.1 |
| 22.5° | 830.7 | 798.0 | 696.0 | 577.6 | 440.9 | 340.9 | 257.2 | 116.3 | 59.2 | 46.9 | 46.9 |
| 25° | 1781.8 | 1657.3 | 1410.4 | 1065.4 | 751.1 | 532.7 | 373.5 | 130.6 | 53.1 | 40.8 | 42.9 |
| 27.5° | 3253.4 | 3141.2 | 2645.2 | 1992.1 | 1322.6 | 804.2 | 506.2 | 149.0 | 46.9 | 34.7 | 38.8 |
| 30° | 5176.1 | 4865.8 | 4218.8 | 3265.7 | 2210.4 | 1230.7 | 679.7 | 169.4 | 38.8 | 30.6 | 36.7 |
| 31° | 5776.1 | 5633.3 | 4845.4 | 3778.0 | 2590.1 | 1461.4 | 753.1 | 175.5 | 36.7 | 30.6 | 34.7 |
| 32° | 6488.5 | 6235.4 | 5529.2 | 4339.2 | 2975.8 | 1667.5 | 840.9 | 181.7 | 34.7 | 26.5 | 34.7 |
| 33° | 7125.3 | 6880.3 | 6021.1 | 4833.2 | 3365.7 | 1902.2 | 934.8 | 183.7 | 30.6 | 26.5 | 32.7 |
| 34° | 7794.7 | 7460.0 | 6608.9 | 5349.6 | 3765.7 | 2155.3 | 1020.5 | 185.7 | 28.6 | 24.5 | 32.7 |
| 35° | 8274.4 | 7939.6 | 7115.1 | 5757.8 | 4110.6 | 2379.8 | 1118.5 | 185.7 | 26.5 | 24.5 | 30.6 |
| 36° | 8645.8 | 8351.9 | 7551.8 | 6178.2 | 4453.5 | 2581.9 | 1196.0 | 185.7 | 22.5 | 22.5 | 30.6 |
| 37° | 8901.0 | 8621.3 | 7845.7 | 6539.5 | 4714.8 | 2761.5 | 1265.4 | 185.7 | 20.4 | 22.5 | 30.6 |
| 38° | 9025.5 | 8792.8 | 8129.4 | 6802.8 | 4967.9 | 2902.4 | 1320.6 | 181.7 | 18.4 | 20.4 | 28.6 |
| 39° | 9078.5 | 8888.7 | 8302.9 | 7025.2 | 5157.7 | 3024.8 | 1361.4 | 177.6 | 16.3 | 20.4 | 28.6 |
| 40° | 9070.4 | 8905.0 | 8400.9 | 7178.3 | 5310.8 | 3108.5 | 1383.8 | 171.4 | 14.3 | 18.4 | 28.6 |
| 41° | 9023.4 | 8880.5 | 8451.9 | 7309.0 | 5402.6 | 3165.6 | 1389.9 | 165.3 | 12.2 | 18.4 | 26.5 |
| 42° | 8970.4 | 8839.7 | 8468.3 | 7378.3 | 5461.8 | 3184.0 | 1373.6 | 157.2 | 12.2 | 16.3 | 26.5 |
| 43° | 8915.2 | 8794.8 | 8468.3 | 7400.8 | 5476.1 | 3171.8 | 1347.1 | 142.9 | 10.2 | 16.3 | 26.5 |
| 44° | 8870.3 | 8756.0 | 8441.7 | 7394.7 | 5445.5 | 3124.8 | 1298.1 | 126.5 | 8.2 | 16.3 | 26.5 |
| 45° | 8817.3 | 8705.0 | 8407.0 | 7355.9 | 5386.3 | 3045.2 | 1236.9 | 112.3 | 6.1 | 14.3 | 26.5 |
| 46° | 8723.4 | 8635.6 | 8345.8 | 7276.3 | 5292.4 | 2935.0 | 1159.3 | 102.1 | 4.1 | 14.3 | 24.5 |
| 47° | 8541.7 | 8466.2 | 8227.4 | 7157.9 | 5167.9 | 2804.4 | 1079.7 | 91.8 | 4.1 | 14.3 | 24.5 |
| 48° | 8176.4 | 8174.4 | 7990.7 | 6937.5 | 4969.9 | 2641.1 | 996.0 | 81.6 | 4.1 | 14.3 | 24.5 |
| 49° | 7823.3 | 7786.6 | 7558.0 | 6549.7 | 4686.2 | 2445.2 | 908.3 | 73.5 | 2.0 | 14.3 | 24.5 |
| 50° | 7629.4 | 7549.8 | 7174.2 | 6092.5 | 4322.9 | 2173.7 | 814.4 | 61.2 | 2.0 | 12.2 | 24.5 |
| 51° | 7427.3 | 7313.0 | 6870.1 | 5680.2 | 3890.2 | 1912.5 | 712.3 | 49.0 | 2.0 | 12.2 | 22.5 |
| 52° | 7062.0 | 6953.8 | 6457.8 | 5286.3 | 3469.8 | 1645.1 | 614.4 | 40.8 | 2.0 | 12.2 | 24.5 |
| 53° | 6668.1 | 6512.9 | 5974.1 | 4853.6 | 3100.3 | 1408.3 | 514.3 | 34.7 | 2.0 | 12.2 | 22.5 |
| 54° | 6172.1 | 6102.7 | 5484.3 | 4322.9 | 2667.6 | 1179.7 | 422.5 | 28.6 | 2.0 | 12.2 | 22.5 |
| 55° | 5704.7 | 5602.6 | 4959.7 | 3780.0 | 2275.8 | 967.5 | 353.1 | 22.5 | 2.0 | 12.2 | 22.5 |
| 56° | 5108.7 | 4955.6 | 4353.5 | 3282.0 | 1877.8 | 779.7 | 298.0 | 18.4 | 2.0 | 12.2 | 22.5 |
| 57° | 4398.4 | 4235.2 | 3759.6 | 2728.9 | 1473.6 | 593.9 | 249.0 | 14.3 | 2.0 | 12.2 | 22.5 |
| 58° | 3720.8 | 3580.0 | 3069.7 | 2106.3 | 1110.3 | 412.3 | 206.1 | 10.2 | 2.0 | 10.2 | 22.5 |
| 59° | 3214.6 | 3059.5 | 2553.3 | 1620.6 | 771.5 | 304.1 | 155.1 | 8.2 | 2.0 | 12.2 | 22.5 |
| 60° | 2784.0 | 2584.0 | 2055.3 | 1255.2 | 551.1 | 218.4 | 114.3 | 4.1 | 4.1 | 12.2 | 22.5 |
| 62.5° | 1604.3 | 1416.5 | 981.7 | 510.3 | 226.6 | 112.3 | 55.1 | 2.0 | 4.1 | 12.2 | 22.5 |
| 65° | 406.2 | 361.3 | 234.7 | 110.2 | 63.3 | 38.8 | 20.4 | 2.0 | 4.1 | 10.2 | 20.4 |



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CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 45° | 67.5° | 90° | 112.5° |
|-------|------|------|------|------|------|-----|-----|-----|-------|------|--------|
| 67.5° | 14.3 | 14.3 | 14.3 | 12.2 | 10.2 | 8.2 | 4.1 | 2.0 | 4.1 | 10.2 | 20.4 |
| 70° | 6.1 | 6.1 | 6.1 | 4.1 | 4.1 | 2.0 | 2.0 | 2.0 | 4.1 | 10.2 | 18.4 |
| 72.5° | 4.1 | 4.1 | 4.1 | 4.1 | 2.0 | 2.0 | 2.0 | 2.0 | 6.1 | 10.2 | 16.3 |
| 75° | 4.1 | 4.1 | 4.1 | 4.1 | 2.0 | 2.0 | 2.0 | 2.0 | 6.1 | 10.2 | 16.3 |
| 77.5° | 4.1 | 4.1 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 6.1 | 8.2 | 14.3 |
| 80° | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 6.1 | 8.2 | 12.2 |
| 82.5° | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 6.1 | 8.2 | 10.2 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.0 | 0.0 | 2.0 | 6.1 | 8.2 | 8.2 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.0 | 6.1 | 8.2 | 6.1 |
| 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° | 104.1 | 104.1 | 104.1 |
| 2.5° | 98.0 | 98.0 | 98.0 |
| 5° | 91.8 | 91.8 | 89.8 |
| 7.5° | 85.7 | 83.7 | 83.7 |
| 10° | 77.6 | 77.6 | 77.6 |
| 12.5° | 71.4 | 71.4 | 71.4 |
| 15° | 65.3 | 67.4 | 67.4 |
| 17.5° | 59.2 | 63.3 | 63.3 |
| 20° | 55.1 | 59.2 | 61.2 |
| 22.5° | 51.0 | 55.1 | 57.1 |
| 25° | 49.0 | 53.1 | 55.1 |
| 27.5° | 44.9 | 51.0 | 55.1 |
| 30° | 42.9 | 49.0 | 53.1 |
| 31° | 42.9 | 49.0 | 51.0 |
| 32° | 40.8 | 49.0 | 51.0 |
| 33° | 40.8 | 49.0 | 51.0 |
| 34° | 40.8 | 46.9 | 51.0 |
| 35° | 38.8 | 46.9 | 49.0 |
| 36° | 38.8 | 46.9 | 49.0 |
| 37° | 38.8 | 46.9 | 51.0 |
| 38° | 38.8 | 46.9 | 49.0 |
| 39° | 36.7 | 46.9 | 49.0 |
| 40° | 36.7 | 46.9 | 49.0 |
| 41° | 36.7 | 46.9 | 49.0 |
| 42° | 36.7 | 46.9 | 49.0 |
| 43° | 36.7 | 46.9 | 49.0 |
| 44° | 36.7 | 44.9 | 49.0 |
| 45° | 36.7 | 44.9 | 49.0 |
| 46° | 36.7 | 46.9 | 49.0 |
| 47° | 36.7 | 46.9 | 51.0 |
| 48° | 36.7 | 44.9 | 49.0 |
| 49° | 34.7 | 44.9 | 49.0 |
| 50° | 34.7 | 44.9 | 49.0 |
| 51° | 34.7 | 46.9 | 51.0 |
| 52° | 34.7 | 46.9 | 51.0 |
| 53° | 34.7 | 46.9 | 51.0 |
| 54° | 34.7 | 46.9 | 49.0 |
| 55° | 34.7 | 46.9 | 51.0 |
| 56° | 34.7 | 46.9 | 49.0 |
| 57° | 34.7 | 46.9 | 49.0 |
| 58° | 34.7 | 44.9 | 49.0 |
| 59° | 34.7 | 44.9 | 49.0 |
| 60° | 34.7 | 44.9 | 49.0 |
| 62.5° | 32.7 | 44.9 | 49.0 |
| 65° | 32.7 | 42.9 | 46.9 |



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CANDELA DISTRIBUTION (continued):

| | 135° | 157.5° | 180° |
|-------|------|--------|------|
| 67.5° | 30.6 | 42.9 | 44.9 |
| 70° | 28.6 | 40.8 | 42.9 |
| 72.5° | 26.5 | 38.8 | 40.8 |
| 75° | 24.5 | 34.7 | 36.7 |
| 77.5° | 20.4 | 30.6 | 34.7 |
| 80° | 18.4 | 26.5 | 28.6 |
| 82.5° | 14.3 | 22.5 | 24.5 |
| 85° | 10.2 | 16.3 | 16.3 |
| 87.5° | 4.1 | 8.2 | 8.2 |
| 90° | 0.0 | 0.0 | 0.0 |

(END OF REPORT)