

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: P1323995

Luminaire Tested: LDSQA3D17R159030D2WDE010 3LSQCA30R 1MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1323995
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-47)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D17R159030D2WDE010 3LSQCA30R 1MMS
Description: 3in Adjustable Dim to Warm LED luminaire with, R15 optic, 3000K CCT AND, 90CRI ,
3LSQCA30R 1MMS TRIM
Light Source: -
Ballast/Driver: -

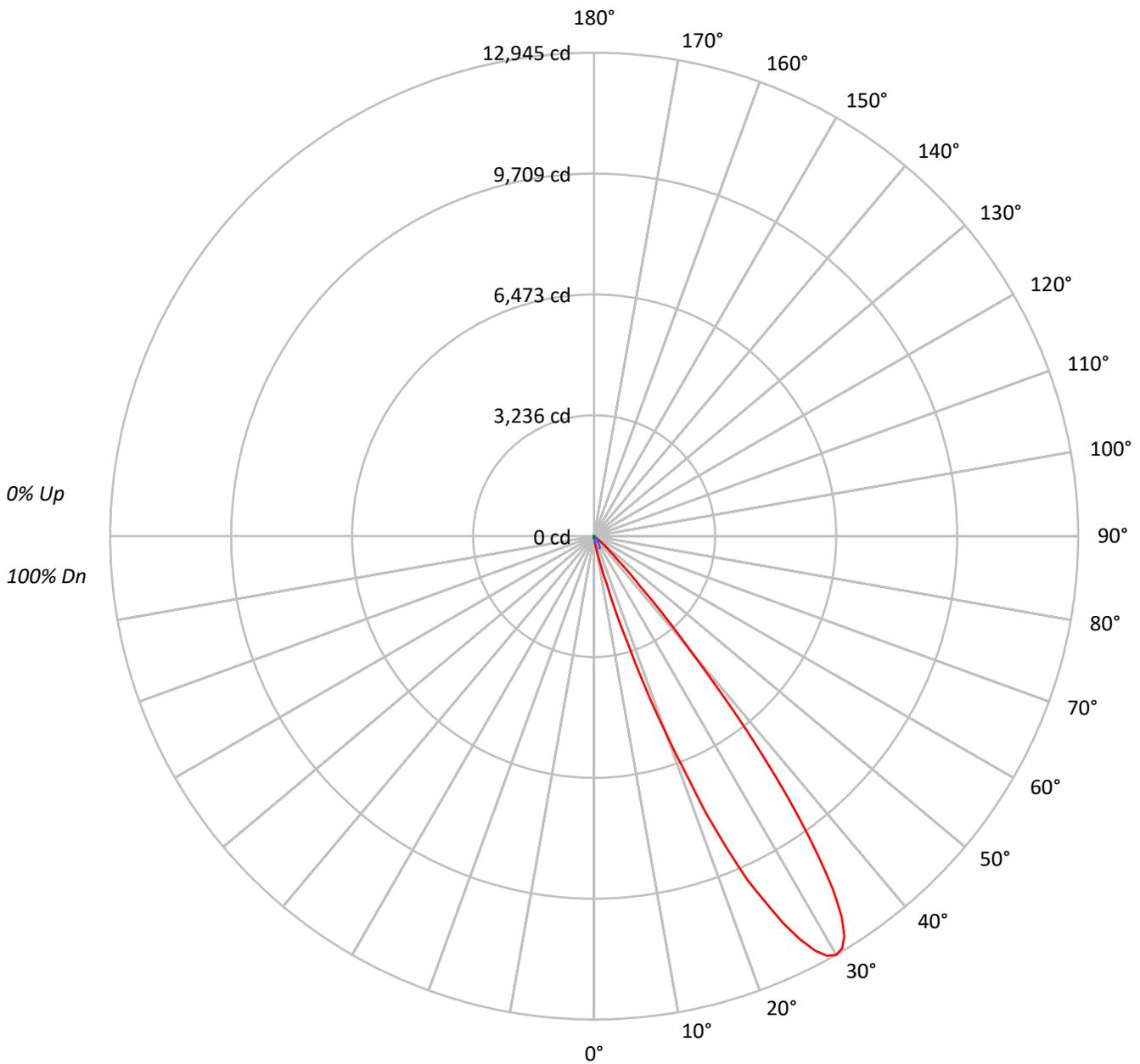
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1369.0 lumens
Efficiency: N/A
Efficacy: 50.1 lumens/watt
Spacing Criteria (0/90/45): 2.33 / 0.38 / 1.17
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 27.3
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: P1323995
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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 | 0 |
| RCR | | | | | | | | | | | | | | | | | | |
| 0 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |
| 1 | 113 | 109 | 107 | 104 | 110 | 107 | 105 | 102 | 103 | 101 | 99 | 99 | 98 | 96 | 96 | 95 | 94 | 92 |
| 2 | 106 | 100 | 96 | 92 | 104 | 99 | 94 | 91 | 95 | 92 | 89 | 92 | 89 | 87 | 89 | 87 | 85 | 83 |
| 3 | 99 | 92 | 86 | 81 | 97 | 90 | 85 | 81 | 88 | 83 | 79 | 85 | 81 | 78 | 83 | 80 | 77 | 75 |
| 4 | 93 | 84 | 78 | 73 | 91 | 83 | 77 | 72 | 81 | 75 | 71 | 79 | 74 | 70 | 77 | 73 | 70 | 68 |
| 5 | 87 | 77 | 70 | 65 | 85 | 76 | 70 | 65 | 74 | 68 | 64 | 72 | 67 | 63 | 71 | 66 | 63 | 61 |
| 6 | 81 | 71 | 63 | 58 | 79 | 70 | 63 | 58 | 68 | 62 | 58 | 67 | 61 | 57 | 65 | 60 | 57 | 55 |
| 7 | 76 | 65 | 57 | 52 | 74 | 64 | 57 | 52 | 63 | 56 | 52 | 61 | 56 | 52 | 60 | 55 | 51 | 50 |
| 8 | 71 | 59 | 52 | 47 | 69 | 59 | 52 | 47 | 58 | 51 | 47 | 56 | 51 | 47 | 55 | 50 | 46 | 45 |
| 9 | 66 | 55 | 47 | 43 | 65 | 54 | 47 | 43 | 53 | 47 | 42 | 52 | 46 | 42 | 51 | 46 | 42 | 41 |
| 10 | 62 | 50 | 43 | 39 | 61 | 50 | 43 | 39 | 49 | 43 | 38 | 48 | 42 | 38 | 47 | 42 | 38 | 37 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° | 135° | 180° |
|-----|---------|-------|------|------|------|
| 0° | 8422 | 8422 | 8422 | 8422 | 8422 |
| 5° | 24393 | 18412 | 7209 | 2991 | 1988 |
| 10° | 63446 | 27439 | 4792 | 0 | 0 |
| 15° | 253593 | 44913 | 2567 | 0 | 0 |
| 20° | 1036093 | 66217 | 788 | 0 | 0 |
| 25° | 2048126 | 65654 | 0 | 0 | 0 |
| 30° | 2574255 | 51824 | 0 | 0 | 0 |
| 35° | 2196430 | 31789 | 0 | 0 | 0 |
| 40° | 904274 | 10027 | 0 | 0 | 0 |
| 45° | 195651 | 4214 | 0 | 0 | 0 |
| 50° | 25078 | 0 | 0 | 0 | 0 |
| 55° | 2162 | 0 | 420 | 0 | 0 |
| 60° | 0 | 0 | 999 | 0 | 0 |
| 65° | 0 | 0 | 1182 | 0 | 0 |
| 70° | 0 | 705 | 2165 | 0 | 0 |
| 75° | 0 | 932 | 2861 | 0 | 0 |
| 80° | 0 | 1389 | 4265 | 0 | 0 |
| 85° | 0 | 2766 | 8497 | 0 | 0 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 2°
 Vertical Angle: 45°
 Luminance: 204761 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 6.6 | 0.5 |
| 10°-20° | 95.9 | 7.0 |
| 20°-30° | 559.2 | 40.8 |
| 30°-40° | 599.6 | 43.8 |
| 40°-50° | 101.2 | 7.4 |
| 50°-60° | 3.1 | 0.2 |
| 60°-70° | 0.9 | 0.1 |
| 70°-80° | 1.3 | 0.1 |
| 80°-90° | 1.2 | 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° | 661.7 | 48.3 |
| 0°-40° | 1261.3 | 92.1 |
| 0°-60° | 1365.6 | 99.8 |
| 0°-90° | 1369.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 1369.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|-------|-----|-----|------|------|------|
| 0° | 49 | 49 | 49 | 49 | 49 | |
| 5° | 141 | 106 | 42 | 17 | 12 | 19 |
| 15° | 1422 | 252 | 14 | 0 | 0 | 658 |
| 25° | 10778 | 346 | 0 | 0 | 0 | 4877 |
| 35° | 10447 | 151 | 0 | 0 | 0 | 6004 |
| 45° | 803 | 17 | 0 | 0 | 0 | 949 |
| 55° | 7 | 0 | 1 | 0 | 0 | 18 |
| 65° | 0 | 0 | 3 | 0 | 0 | 0 |
| 75° | 0 | 1 | 4 | 0 | 0 | 0 |
| 85° | 0 | 1 | 4 | 0 | 0 | 0 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P1323995

CATALOG NUMBER: LDSQA3D17R159030D2WDE010 3LSQCA30R 1MMS

CANDELA DISTRIBUTION (FULL):

| | 0° | 1° | 2° | 3° | 4° | 5° | 6° | 7° | 8° | 9° | 10° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 48.9 | 48.9 | 48.9 | 48.9 | 48.9 | 48.9 | 48.9 | 48.9 | 48.9 | 48.9 | 48.9 |
| 2.5° | 89.3 | 90.7 | 92.1 | 92.1 | 92.1 | 92.1 | 90.7 | 90.7 | 90.7 | 90.7 | 89.3 |
| 5° | 141.1 | 141.1 | 141.1 | 141.1 | 141.1 | 141.1 | 139.6 | 139.6 | 139.6 | 139.6 | 139.6 |
| 7.5° | 201.5 | 198.7 | 200.1 | 195.8 | 198.7 | 197.2 | 195.8 | 198.7 | 198.7 | 191.5 | 191.5 |
| 10° | 362.8 | 361.3 | 346.9 | 349.8 | 352.7 | 351.3 | 351.3 | 342.6 | 341.2 | 335.4 | 329.7 |
| 12.5° | 699.6 | 715.5 | 727.0 | 727.0 | 699.6 | 709.7 | 691.0 | 695.3 | 698.2 | 689.6 | 659.3 |
| 15° | 1422.3 | 1448.2 | 1420.9 | 1446.8 | 1436.7 | 1399.3 | 1357.5 | 1301.4 | 1323.0 | 1284.1 | 1271.1 |
| 17.5° | 3115.2 | 3174.3 | 3149.8 | 3030.3 | 3069.2 | 2977.0 | 2919.5 | 2897.9 | 2837.4 | 2657.5 | 2582.6 |
| 20° | 5653.2 | 5725.2 | 5657.5 | 5517.9 | 5562.5 | 5388.3 | 5343.7 | 5302.0 | 5034.2 | 4936.3 | 4622.5 |
| 21° | 6721.4 | 6780.4 | 6806.3 | 6660.9 | 6571.7 | 6433.5 | 6318.3 | 6280.9 | 6118.2 | 5929.6 | 5607.2 |
| 22° | 8011.2 | 7942.1 | 7786.7 | 7806.8 | 7674.4 | 7560.7 | 7400.9 | 7249.7 | 7068.3 | 6804.9 | 6538.6 |
| 23° | 9079.4 | 8998.8 | 8925.4 | 8836.1 | 8693.6 | 8613.0 | 8384.1 | 8218.5 | 7982.5 | 7700.3 | 7444.1 |
| 24° | 10074.2 | 9950.4 | 9904.3 | 9745.9 | 9705.6 | 9524.2 | 9338.5 | 9122.6 | 8837.6 | 8536.7 | 8253.1 |
| 25° | 10778.1 | 10796.8 | 10756.5 | 10737.8 | 10531.9 | 10346.2 | 10162.0 | 9829.4 | 9586.1 | 9319.8 | 8883.6 |
| 26° | 11532.5 | 11541.1 | 11520.9 | 11382.7 | 11197.0 | 11015.6 | 10778.1 | 10488.8 | 10136.1 | 9841.0 | 9446.5 |
| 27° | 12109.7 | 12075.2 | 12046.4 | 11882.3 | 11729.7 | 11500.8 | 11284.8 | 10942.2 | 10598.2 | 10246.9 | 9789.1 |
| 28° | 12570.4 | 12505.6 | 12469.6 | 12328.5 | 12150.0 | 11869.3 | 11604.4 | 11284.8 | 10940.8 | 10563.6 | 10068.4 |
| 29° | 12848.2 | 12779.1 | 12738.8 | 12583.3 | 12377.5 | 12131.3 | 11863.6 | 11512.3 | 11142.3 | 10722.0 | 10223.9 |
| 30° | 12944.7 | 12904.4 | 12841.0 | 12679.8 | 12466.7 | 12210.5 | 11935.5 | 11554.0 | 11166.8 | 10736.4 | 10209.5 |
| 31° | 12881.3 | 12829.5 | 12769.1 | 12594.9 | 12364.5 | 12119.8 | 11800.2 | 11400.0 | 10992.6 | 10582.3 | 10023.8 |
| 32° | 12629.4 | 12597.7 | 12524.3 | 12291.1 | 12104.0 | 11787.3 | 11472.0 | 11097.7 | 10652.9 | 10212.4 | 9707.1 |
| 33° | 12157.2 | 12105.4 | 12042.1 | 11829.0 | 11590.0 | 11286.3 | 10972.5 | 10589.5 | 10147.6 | 9682.6 | 9126.9 |
| 34° | 11437.4 | 11371.2 | 11292.0 | 11149.5 | 10844.3 | 10580.9 | 10218.1 | 9770.4 | 9404.8 | 8958.5 | 8456.1 |
| 35° | 10447.0 | 10350.6 | 10255.6 | 10147.6 | 9805.0 | 9561.7 | 9316.9 | 8926.8 | 8574.1 | 8153.8 | 7585.1 |
| 36° | 9335.7 | 9298.2 | 9220.5 | 8935.5 | 8824.6 | 8493.5 | 8296.3 | 7848.6 | 7563.5 | 7151.8 | 6682.5 |
| 37° | 8078.9 | 7858.7 | 7970.9 | 7811.1 | 7477.2 | 7373.5 | 7138.9 | 6754.5 | 6446.4 | 6011.7 | 5671.9 |
| 38° | 6731.5 | 6587.5 | 6666.7 | 6505.5 | 6331.3 | 6092.3 | 5913.8 | 5633.1 | 5287.6 | 4946.4 | 4623.9 |
| 39° | 5335.1 | 5218.5 | 5304.8 | 5195.4 | 4930.6 | 4831.2 | 4672.9 | 4458.4 | 4180.5 | 3914.2 | 3609.0 |
| 40° | 4022.2 | 3872.5 | 3987.6 | 3832.2 | 3711.2 | 3548.6 | 3467.9 | 3270.7 | 3098.0 | 2938.2 | 2743.8 |
| 42.5° | 1836.9 | 1821.1 | 1795.2 | 1739.0 | 1726.1 | 1727.5 | 1628.2 | 1563.4 | 1475.6 | 1373.4 | 1311.5 |
| 45° | 803.3 | 823.4 | 840.7 | 809.0 | 807.6 | 790.3 | 784.6 | 741.4 | 724.1 | 691.0 | 650.7 |
| 47.5° | 395.9 | 403.1 | 398.8 | 407.4 | 400.2 | 388.7 | 385.8 | 380.0 | 362.8 | 361.3 | 342.6 |
| 50° | 93.6 | 92.1 | 92.1 | 93.6 | 92.1 | 92.1 | 90.7 | 87.8 | 86.4 | 87.8 | 83.5 |
| 52.5° | 30.2 | 31.7 | 30.2 | 28.8 | 30.2 | 31.7 | 30.2 | 30.2 | 30.2 | 30.2 | 30.2 |
| 55° | 7.2 | 7.2 | 7.2 | 7.2 | 7.2 | 7.2 | 5.8 | 5.8 | 7.2 | 7.2 | 7.2 |
| 57.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 60° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 62.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 65° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 67.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 70° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 72.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 75° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 77.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 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):

| | 0° | 1° | 2° | 3° | 4° | 5° | 6° | 7° | 8° | 9° | 10° |
|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 82.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 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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CATALOG NUMBER: LDSQA3D17R159030D2WDE010 3LSQCA30R 1MMS

CANDELA DISTRIBUTION (continued):

| | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° |
|-------|--------|-------|-------|------|--------|------|--------|------|
| 0° | 48.9 | 48.9 | 48.9 | 48.9 | 48.9 | 48.9 | 48.9 | 48.9 |
| 2.5° | 87.8 | 74.9 | 61.9 | 48.9 | 36.0 | 28.8 | 27.4 | 25.9 |
| 5° | 132.4 | 106.5 | 70.5 | 41.7 | 24.5 | 17.3 | 13.0 | 11.5 |
| 7.5° | 178.5 | 132.4 | 77.7 | 34.5 | 17.3 | 7.2 | 2.9 | 1.4 |
| 10° | 256.2 | 156.9 | 80.6 | 27.4 | 8.6 | 0.0 | 0.0 | 0.0 |
| 12.5° | 502.4 | 179.9 | 79.2 | 21.6 | 1.4 | 0.0 | 0.0 | 0.0 |
| 15° | 835.0 | 251.9 | 73.4 | 14.4 | 0.0 | 0.0 | 0.0 | 0.0 |
| 17.5° | 1367.6 | 325.3 | 63.3 | 10.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| 20° | 2120.5 | 361.3 | 48.9 | 4.3 | 0.0 | 0.0 | 0.0 | 0.0 |
| 21° | 2486.2 | 364.2 | 43.2 | 2.9 | 0.0 | 0.0 | 0.0 | 0.0 |
| 22° | 2802.9 | 364.2 | 37.4 | 1.4 | 0.0 | 0.0 | 0.0 | 0.0 |
| 23° | 3096.5 | 359.9 | 33.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 24° | 3338.4 | 354.1 | 30.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 25° | 3519.8 | 345.5 | 27.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 26° | 3603.3 | 334.0 | 23.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 27° | 3645.0 | 318.1 | 20.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 28° | 3616.2 | 300.9 | 17.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 29° | 3544.2 | 282.2 | 13.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 30° | 3450.7 | 260.6 | 10.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 31° | 3313.9 | 239.0 | 7.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 32° | 3126.8 | 217.4 | 5.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 33° | 2876.3 | 194.3 | 2.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 34° | 2566.8 | 171.3 | 1.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 35° | 2219.8 | 151.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 36° | 1921.8 | 129.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 37° | 1622.4 | 103.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 38° | 1359.0 | 82.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 39° | 1124.3 | 66.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 40° | 931.4 | 44.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 42.5° | 515.4 | 30.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 45° | 312.4 | 17.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 47.5° | 181.4 | 5.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 50° | 69.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 52.5° | 23.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 55° | 5.8 | 0.0 | 0.0 | 1.4 | 0.0 | 0.0 | 0.0 | 0.0 |
| 57.5° | 0.0 | 0.0 | 0.0 | 1.4 | 0.0 | 0.0 | 0.0 | 0.0 |
| 60° | 0.0 | 0.0 | 1.4 | 2.9 | 0.0 | 0.0 | 0.0 | 0.0 |
| 62.5° | 0.0 | 0.0 | 1.4 | 2.9 | 1.4 | 0.0 | 0.0 | 0.0 |
| 65° | 0.0 | 0.0 | 2.9 | 2.9 | 1.4 | 0.0 | 0.0 | 0.0 |
| 67.5° | 0.0 | 0.0 | 2.9 | 4.3 | 1.4 | 0.0 | 0.0 | 0.0 |
| 70° | 0.0 | 1.4 | 2.9 | 4.3 | 1.4 | 0.0 | 0.0 | 0.0 |
| 72.5° | 0.0 | 1.4 | 2.9 | 4.3 | 1.4 | 0.0 | 0.0 | 0.0 |
| 75° | 0.0 | 1.4 | 2.9 | 4.3 | 1.4 | 0.0 | 0.0 | 0.0 |
| 77.5° | 0.0 | 1.4 | 2.9 | 4.3 | 1.4 | 0.0 | 0.0 | 0.0 |
| 80° | 0.0 | 1.4 | 2.9 | 4.3 | 1.4 | 0.0 | 0.0 | 0.0 |



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CANDELA DISTRIBUTION (continued):

| | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° |
|-------|-------|-----|-------|-----|--------|------|--------|------|
| 82.5° | 0.0 | 1.4 | 2.9 | 4.3 | 1.4 | 0.0 | 0.0 | 0.0 |
| 85° | 0.0 | 1.4 | 2.9 | 4.3 | 1.4 | 0.0 | 0.0 | 0.0 |
| 87.5° | 0.0 | 1.4 | 2.9 | 4.3 | 1.4 | 0.0 | 0.0 | 0.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)