

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: P1313768

Luminaire Tested: LDSQA3D17R159727DE010 3LSQCA30R 1MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1313768
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: LDSQA3D17R159727DE010 3LSQCA30R 1MMS
Description: 3in Adjustable LED luminaire with, R15 optic, 2700K CCT AND, 97CRI , 3LSQCA30R 1MMS TRII
Light Source: -
Ballast/Driver: -

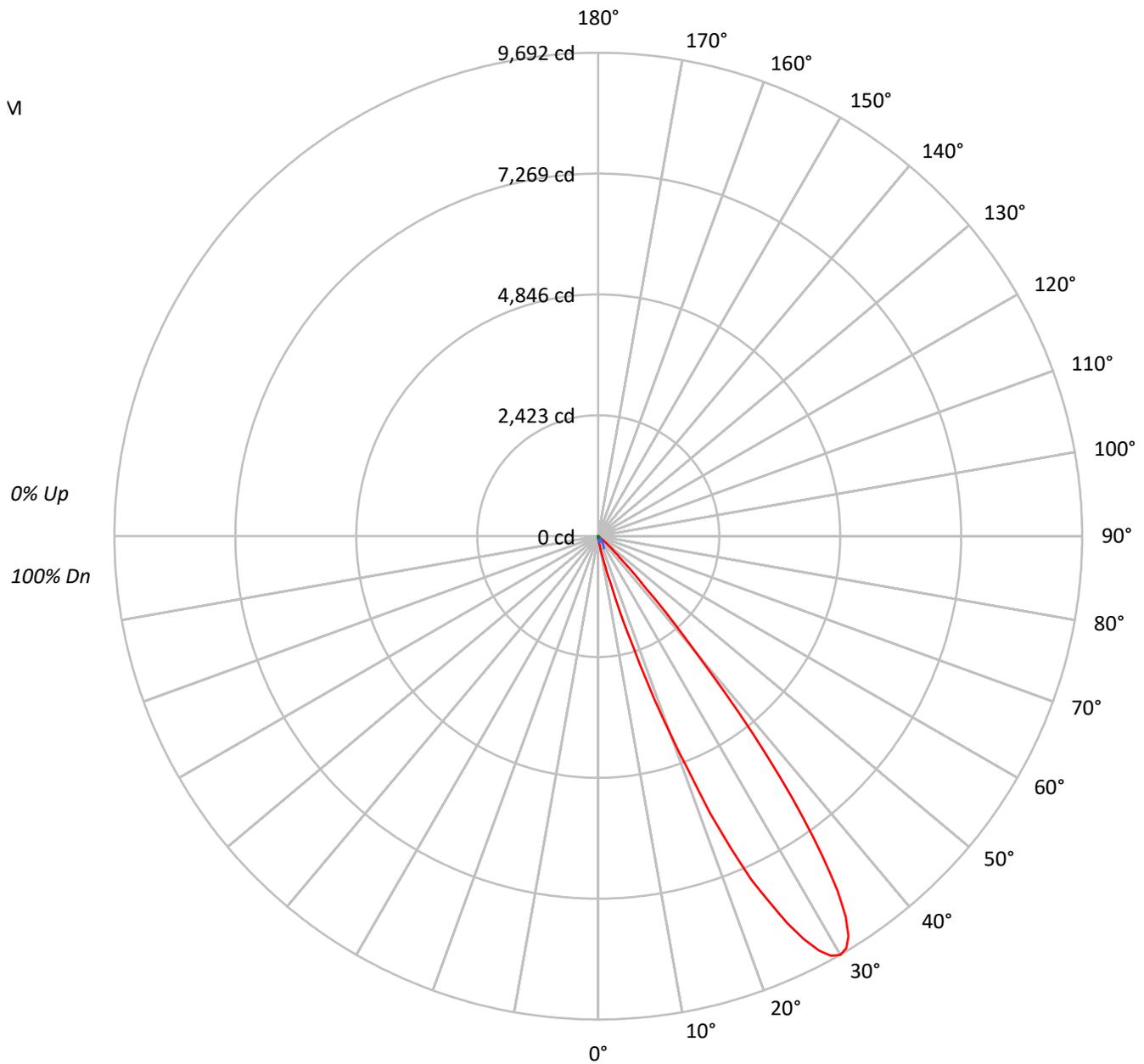
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1025.0 lumens
Efficiency: N/A
Efficacy: 48.4 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): 21.2
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 | 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° | 6303 | 6303 | 6303 | 6303 | 6303 |
| 5° | 18256 | 13796 | 5411 | 2230 | 1487 |
| 10° | 47497 | 20548 | 3585 | 0 | 0 |
| 15° | 189870 | 33627 | 1926 | 0 | 0 |
| 20° | 775750 | 49576 | 586 | 0 | 0 |
| 25° | 1533477 | 49160 | 0 | 0 | 0 |
| 30° | 1927405 | 38799 | 0 | 0 | 0 |
| 35° | 1644516 | 23800 | 0 | 0 | 0 |
| 40° | 677048 | 7509 | 0 | 0 | 0 |
| 45° | 146477 | 3142 | 0 | 0 | 0 |
| 50° | 18782 | 0 | 0 | 0 | 0 |
| 55° | 1621 | 0 | 330 | 0 | 0 |
| 60° | 0 | 0 | 758 | 0 | 0 |
| 65° | 0 | 0 | 897 | 0 | 0 |
| 70° | 0 | 554 | 1611 | 0 | 0 |
| 75° | 0 | 732 | 2129 | 0 | 0 |
| 80° | 0 | 1091 | 3174 | 0 | 0 |
| 85° | 0 | 2174 | 6323 | 0 | 0 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 2°
 Vertical Angle: 45°
 Luminance: 153321 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 4.9 | 0.5 |
| 10°-20° | 71.8 | 7.0 |
| 20°-30° | 418.7 | 40.8 |
| 30°-40° | 448.9 | 43.8 |
| 40°-50° | 75.8 | 7.4 |
| 50°-60° | 2.3 | 0.2 |
| 60°-70° | 0.7 | 0.1 |
| 70°-80° | 1.0 | 0.1 |
| 80°-90° | 0.9 | 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° | 495.4 | 48.3 |
| 0°-40° | 944.4 | 92.1 |
| 0°-60° | 1022.4 | 99.7 |
| 0°-90° | 1025.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 1025.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|-----|-----|------|------|------|
| 0° | 37 | 37 | 37 | 37 | 37 | |
| 5° | 106 | 80 | 31 | 13 | 9 | 14 |
| 15° | 1065 | 189 | 11 | 0 | 0 | 493 |
| 25° | 8070 | 259 | 0 | 0 | 0 | 3651 |
| 35° | 7822 | 113 | 0 | 0 | 0 | 4495 |
| 45° | 601 | 13 | 0 | 0 | 0 | 710 |
| 55° | 5 | 0 | 1 | 0 | 0 | 14 |
| 65° | 0 | 0 | 2 | 0 | 0 | 0 |
| 75° | 0 | 1 | 3 | 0 | 0 | 0 |
| 85° | 0 | 1 | 3 | 0 | 0 | 0 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P1313768
 CATALOG NUMBER: LDSQA3D17R159727DE010 3LSQCA30R 1MMS

CANDELA DISTRIBUTION (FULL):

| | 0° | 1° | 2° | 3° | 4° | 5° | 6° | 7° | 8° | 9° | 10° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 36.6 | 36.6 | 36.6 | 36.6 | 36.6 | 36.6 | 36.6 | 36.6 | 36.6 | 36.6 | 36.6 |
| 2.5° | 66.8 | 67.9 | 69.0 | 69.0 | 69.0 | 69.0 | 67.9 | 67.9 | 67.9 | 67.9 | 66.8 |
| 5° | 105.6 | 105.6 | 105.6 | 105.6 | 105.6 | 105.6 | 104.6 | 104.6 | 104.6 | 104.6 | 104.6 |
| 7.5° | 150.9 | 148.7 | 149.8 | 146.6 | 148.7 | 147.7 | 146.6 | 148.7 | 148.7 | 143.4 | 143.4 |
| 10° | 271.6 | 270.5 | 259.8 | 261.9 | 264.1 | 263.0 | 263.0 | 256.5 | 255.4 | 251.1 | 246.8 |
| 12.5° | 523.8 | 535.7 | 544.3 | 544.3 | 523.8 | 531.4 | 517.4 | 520.6 | 522.8 | 516.3 | 493.7 |
| 15° | 1064.9 | 1084.3 | 1063.8 | 1083.2 | 1075.7 | 1047.7 | 1016.4 | 974.4 | 990.5 | 961.4 | 951.7 |
| 17.5° | 2332.5 | 2376.6 | 2358.3 | 2268.9 | 2298.0 | 2229.0 | 2185.9 | 2169.7 | 2124.4 | 1989.7 | 1933.7 |
| 20° | 4232.7 | 4286.6 | 4235.9 | 4131.4 | 4164.8 | 4034.4 | 4001.0 | 3969.7 | 3769.2 | 3695.9 | 3461.0 |
| 21° | 5032.4 | 5076.6 | 5096.0 | 4987.2 | 4920.4 | 4816.9 | 4730.7 | 4702.6 | 4580.8 | 4439.6 | 4198.2 |
| 22° | 5998.2 | 5946.5 | 5830.1 | 5845.1 | 5746.0 | 5660.8 | 5541.2 | 5428.0 | 5292.2 | 5095.0 | 4895.6 |
| 23° | 6798.0 | 6737.6 | 6682.6 | 6615.8 | 6509.1 | 6448.7 | 6277.4 | 6153.4 | 5976.6 | 5765.4 | 5573.5 |
| 24° | 7542.7 | 7450.1 | 7415.6 | 7297.0 | 7266.8 | 7131.0 | 6992.0 | 6830.3 | 6616.9 | 6391.6 | 6179.3 |
| 25° | 8069.8 | 8083.8 | 8053.6 | 8039.6 | 7885.5 | 7746.5 | 7608.5 | 7359.5 | 7177.4 | 6978.0 | 6651.4 |
| 26° | 8634.6 | 8641.1 | 8626.0 | 8522.5 | 8383.5 | 8247.7 | 8069.8 | 7853.2 | 7589.1 | 7368.1 | 7072.8 |
| 27° | 9066.8 | 9040.9 | 9019.4 | 8896.5 | 8782.3 | 8610.9 | 8449.2 | 8192.7 | 7935.1 | 7672.1 | 7329.3 |
| 28° | 9411.7 | 9363.2 | 9336.3 | 9230.6 | 9097.0 | 8886.8 | 8688.5 | 8449.2 | 8191.6 | 7909.2 | 7538.4 |
| 29° | 9619.7 | 9568.0 | 9537.8 | 9421.4 | 9267.3 | 9083.0 | 8882.5 | 8619.5 | 8342.5 | 8027.8 | 7654.8 |
| 30° | 9692.0 | 9661.8 | 9614.4 | 9493.6 | 9334.1 | 9142.3 | 8936.4 | 8650.8 | 8360.8 | 8038.6 | 7644.1 |
| 31° | 9644.5 | 9605.7 | 9560.5 | 9430.0 | 9257.6 | 9074.4 | 8835.1 | 8535.4 | 8230.4 | 7923.2 | 7505.0 |
| 32° | 9455.9 | 9432.2 | 9377.2 | 9202.6 | 9062.5 | 8825.4 | 8589.3 | 8309.1 | 7976.0 | 7646.2 | 7267.9 |
| 33° | 9102.4 | 9063.6 | 9016.2 | 8856.6 | 8677.7 | 8450.3 | 8215.3 | 7928.6 | 7597.7 | 7249.6 | 6833.5 |
| 34° | 8563.5 | 8513.9 | 8454.6 | 8347.9 | 8119.4 | 7922.1 | 7650.5 | 7315.3 | 7041.5 | 6707.4 | 6331.2 |
| 35° | 7821.9 | 7749.7 | 7678.6 | 7597.7 | 7341.2 | 7159.0 | 6975.8 | 6683.7 | 6419.6 | 6104.9 | 5679.2 |
| 36° | 6989.8 | 6961.8 | 6903.6 | 6690.2 | 6607.2 | 6359.3 | 6211.6 | 5876.4 | 5663.0 | 5354.7 | 5003.3 |
| 37° | 6048.9 | 5883.9 | 5968.0 | 5848.4 | 5598.3 | 5520.7 | 5345.0 | 5057.2 | 4826.6 | 4501.1 | 4246.7 |
| 38° | 5040.0 | 4932.2 | 4991.5 | 4870.8 | 4740.4 | 4561.4 | 4427.8 | 4217.6 | 3958.9 | 3703.5 | 3462.0 |
| 39° | 3994.5 | 3907.2 | 3971.9 | 3889.9 | 3691.6 | 3617.2 | 3498.7 | 3338.1 | 3130.1 | 2930.7 | 2702.2 |
| 40° | 3011.5 | 2899.4 | 2985.6 | 2869.2 | 2778.7 | 2656.9 | 2596.5 | 2448.9 | 2319.5 | 2199.9 | 2054.4 |
| 42.5° | 1375.3 | 1363.5 | 1344.1 | 1302.0 | 1292.3 | 1293.4 | 1219.0 | 1170.5 | 1104.8 | 1028.3 | 981.9 |
| 45° | 601.4 | 616.5 | 629.5 | 605.7 | 604.7 | 591.7 | 587.4 | 555.1 | 542.2 | 517.4 | 487.2 |
| 47.5° | 296.4 | 301.8 | 298.6 | 305.0 | 299.6 | 291.0 | 288.9 | 284.6 | 271.6 | 270.5 | 256.5 |
| 50° | 70.1 | 69.0 | 69.0 | 70.1 | 69.0 | 69.0 | 67.9 | 65.7 | 64.7 | 65.7 | 62.5 |
| 52.5° | 22.6 | 23.7 | 22.6 | 21.6 | 22.6 | 23.7 | 22.6 | 22.6 | 22.6 | 22.6 | 22.6 |
| 55° | 5.4 | 5.4 | 5.4 | 5.4 | 5.4 | 5.4 | 4.3 | 4.3 | 5.4 | 5.4 | 5.4 |
| 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: LDSQA3D17R159727DE010 3LSQCA30R 1MMS

CANDELA DISTRIBUTION (continued):

| | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° |
|-------|--------|-------|-------|------|--------|------|--------|------|
| 0° | 36.6 | 36.6 | 36.6 | 36.6 | 36.6 | 36.6 | 36.6 | 36.6 |
| 2.5° | 65.7 | 56.0 | 46.3 | 36.6 | 26.9 | 21.6 | 20.5 | 19.4 |
| 5° | 99.2 | 79.8 | 52.8 | 31.3 | 18.3 | 12.9 | 9.7 | 8.6 |
| 7.5° | 133.7 | 99.2 | 58.2 | 25.9 | 12.9 | 5.4 | 2.2 | 1.1 |
| 10° | 191.9 | 117.5 | 60.4 | 20.5 | 6.5 | 0.0 | 0.0 | 0.0 |
| 12.5° | 376.2 | 134.7 | 59.3 | 16.2 | 1.1 | 0.0 | 0.0 | 0.0 |
| 15° | 625.1 | 188.6 | 55.0 | 10.8 | 0.0 | 0.0 | 0.0 | 0.0 |
| 17.5° | 1024.0 | 243.6 | 47.4 | 7.5 | 0.0 | 0.0 | 0.0 | 0.0 |
| 20° | 1587.7 | 270.5 | 36.6 | 3.2 | 0.0 | 0.0 | 0.0 | 0.0 |
| 21° | 1861.4 | 272.7 | 32.3 | 2.2 | 0.0 | 0.0 | 0.0 | 0.0 |
| 22° | 2098.6 | 272.7 | 28.0 | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| 23° | 2318.4 | 269.5 | 24.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 24° | 2499.5 | 265.1 | 22.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 25° | 2635.3 | 258.7 | 20.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 26° | 2697.8 | 250.1 | 17.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 27° | 2729.1 | 238.2 | 15.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 28° | 2707.5 | 225.3 | 12.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 29° | 2653.6 | 211.3 | 9.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 30° | 2583.6 | 195.1 | 7.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 31° | 2481.2 | 178.9 | 5.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 32° | 2341.1 | 162.8 | 4.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 33° | 2153.5 | 145.5 | 2.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 34° | 1921.8 | 128.3 | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 35° | 1662.0 | 113.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 36° | 1438.9 | 97.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 37° | 1214.7 | 77.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 38° | 1017.5 | 61.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 39° | 841.8 | 49.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 40° | 697.4 | 33.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 42.5° | 385.9 | 22.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 45° | 233.9 | 12.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 47.5° | 135.8 | 4.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 50° | 51.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 52.5° | 17.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 55° | 4.3 | 0.0 | 0.0 | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| 57.5° | 0.0 | 0.0 | 0.0 | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| 60° | 0.0 | 0.0 | 1.1 | 2.2 | 0.0 | 0.0 | 0.0 | 0.0 |
| 62.5° | 0.0 | 0.0 | 1.1 | 2.2 | 1.1 | 0.0 | 0.0 | 0.0 |
| 65° | 0.0 | 0.0 | 2.2 | 2.2 | 1.1 | 0.0 | 0.0 | 0.0 |
| 67.5° | 0.0 | 0.0 | 2.2 | 3.2 | 1.1 | 0.0 | 0.0 | 0.0 |
| 70° | 0.0 | 1.1 | 2.2 | 3.2 | 1.1 | 0.0 | 0.0 | 0.0 |
| 72.5° | 0.0 | 1.1 | 2.2 | 3.2 | 1.1 | 0.0 | 0.0 | 0.0 |
| 75° | 0.0 | 1.1 | 2.2 | 3.2 | 1.1 | 0.0 | 0.0 | 0.0 |
| 77.5° | 0.0 | 1.1 | 2.2 | 3.2 | 1.1 | 0.0 | 0.0 | 0.0 |
| 80° | 0.0 | 1.1 | 2.2 | 3.2 | 1.1 | 0.0 | 0.0 | 0.0 |



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CATALOG NUMBER: LDSQA3D17R159727DE010 3LSQCA30R 1MMS

CANDELA DISTRIBUTION (continued):

| | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° |
|-------|-------|-----|-------|-----|--------|------|--------|------|
| 82.5° | 0.0 | 1.1 | 2.2 | 3.2 | 1.1 | 0.0 | 0.0 | 0.0 |
| 85° | 0.0 | 1.1 | 2.2 | 3.2 | 1.1 | 0.0 | 0.0 | 0.0 |
| 87.5° | 0.0 | 1.1 | 2.2 | 3.2 | 1.1 | 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)