

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: P1315950

Luminaire Tested: LDSQA3D20R409735D010 3LSQCA30R 1MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1315950
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-52)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D20R409735D010 3LSQCA30R 1MB
Description: 3in Adjustable LED luminaire with, R40 optic, 3500K CCT AND, 97CRI , 3LSQCA30R 1MB TRIM
Light Source: -
Ballast/Driver: -

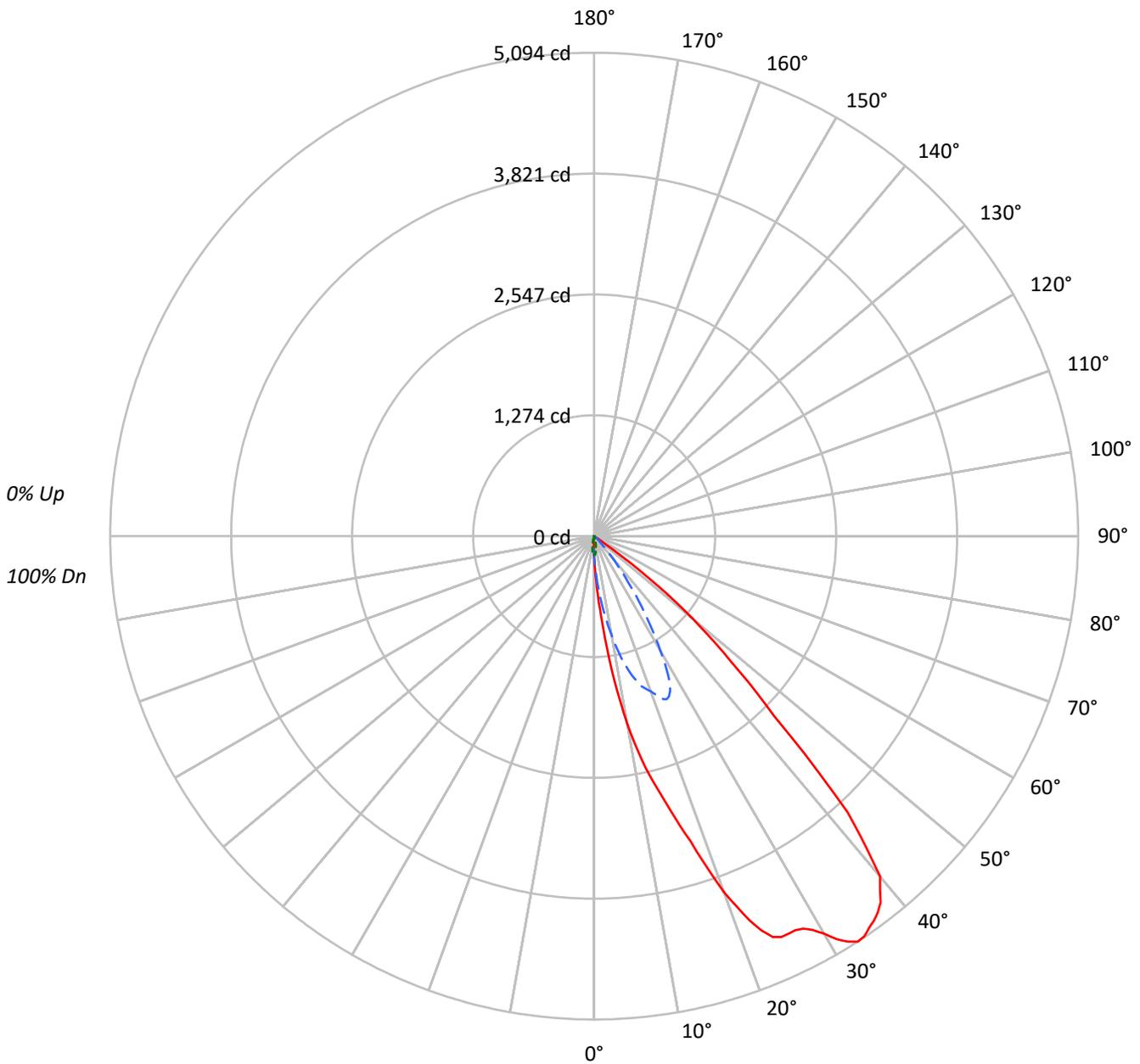
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1710.0 lumens
Efficiency: N/A
Efficacy: 59.4 lumens/watt
Spacing Criteria (0/90/45): 2.56 / 0.36 / 1.23
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: P1315950
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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 | | | | 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 | 112 | 109 | 106 | 104 | 110 | 107 | 104 | 102 | 103 | 101 | 99 | 99 | 98 | 96 | 96 | 94 | 93 | 96 | 94 | 93 | 91 |
| 2 | 106 | 100 | 95 | 91 | 103 | 98 | 94 | 90 | 95 | 91 | 88 | 92 | 89 | 86 | 89 | 86 | 84 | 89 | 86 | 84 | 83 |
| 3 | 99 | 91 | 85 | 80 | 97 | 90 | 84 | 80 | 87 | 82 | 78 | 84 | 81 | 77 | 82 | 79 | 76 | 82 | 79 | 76 | 74 |
| 4 | 92 | 83 | 77 | 72 | 90 | 82 | 76 | 71 | 80 | 74 | 70 | 78 | 73 | 69 | 76 | 72 | 68 | 76 | 72 | 68 | 67 |
| 5 | 86 | 76 | 69 | 64 | 84 | 75 | 68 | 64 | 73 | 67 | 63 | 71 | 66 | 62 | 70 | 65 | 62 | 70 | 65 | 62 | 60 |
| 6 | 80 | 70 | 62 | 57 | 79 | 69 | 62 | 57 | 67 | 61 | 57 | 66 | 60 | 56 | 64 | 59 | 56 | 64 | 59 | 56 | 54 |
| 7 | 75 | 64 | 57 | 52 | 74 | 63 | 56 | 51 | 62 | 56 | 51 | 60 | 55 | 51 | 59 | 54 | 50 | 59 | 54 | 50 | 49 |
| 8 | 70 | 59 | 51 | 47 | 69 | 58 | 51 | 46 | 57 | 51 | 46 | 56 | 50 | 46 | 55 | 50 | 46 | 55 | 50 | 46 | 44 |
| 9 | 66 | 54 | 47 | 42 | 64 | 54 | 47 | 42 | 52 | 46 | 42 | 51 | 46 | 42 | 51 | 45 | 42 | 51 | 45 | 42 | 40 |
| 10 | 62 | 50 | 43 | 38 | 60 | 49 | 43 | 38 | 49 | 42 | 38 | 48 | 42 | 38 | 47 | 42 | 38 | 47 | 42 | 38 | 36 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° | 135° | 180° |
|-----|---------|--------|-------|-------|-------|
| 0° | 34445 | 34445 | 34445 | 34445 | 34445 |
| 5° | 146205 | 99648 | 30220 | 5446 | 2714 |
| 10° | 351420 | 185337 | 18730 | 542 | 0 |
| 15° | 517207 | 269266 | 7863 | 0 | 0 |
| 20° | 731086 | 319211 | 2877 | 0 | 0 |
| 25° | 885505 | 354324 | 0 | 0 | 0 |
| 30° | 961455 | 277159 | 0 | 0 | 0 |
| 35° | 1060182 | 162246 | 0 | 0 | 0 |
| 40° | 1052228 | 65850 | 0 | 0 | 0 |
| 45° | 651668 | 19168 | 0 | 0 | 0 |
| 50° | 362859 | 429 | 0 | 0 | 0 |
| 55° | 35461 | 0 | 0 | 0 | 0 |
| 60° | 0 | 0 | 551 | 0 | 0 |
| 65° | 0 | 0 | 652 | 0 | 0 |
| 70° | 0 | 806 | 1561 | 0 | 0 |
| 75° | 0 | 1065 | 2063 | 0 | 0 |
| 80° | 0 | 1587 | 3075 | 0 | 0 |
| 85° | 0 | 3162 | 6126 | 0 | 0 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 5°
 Vertical Angle: 45°
 Luminance: 654737 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 37.5 | 2.2 |
| 10°-20° | 220.4 | 12.9 |
| 20°-30° | 503.1 | 29.4 |
| 30°-40° | 594.1 | 34.7 |
| 40°-50° | 317.4 | 18.6 |
| 50°-60° | 34.5 | 2.0 |
| 60°-70° | 0.7 | 0.0 |
| 70°-80° | 1.2 | 0.1 |
| 80°-90° | 1.1 | 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° | 761.0 | 44.5 |
| 0°-40° | 1355.1 | 79.2 |
| 0°-60° | 1707.0 | 99.8 |
| 0°-90° | 1710.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 1710.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|-----|------|------|------|
| 0° | 200 | 200 | 200 | 200 | 200 | |
| 5° | 846 | 576 | 175 | 32 | 16 | 119 |
| 15° | 2901 | 1510 | 44 | 0 | 0 | 862 |
| 25° | 4660 | 1865 | 0 | 0 | 0 | 2116 |
| 35° | 5043 | 772 | 0 | 0 | 0 | 3115 |
| 45° | 2676 | 79 | 0 | 0 | 0 | 2206 |
| 55° | 118 | 0 | 0 | 0 | 0 | 331 |
| 65° | 0 | 0 | 2 | 0 | 0 | 0 |
| 75° | 0 | 2 | 3 | 0 | 0 | 0 |
| 85° | 0 | 2 | 3 | 0 | 0 | 0 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P1315950
 CATALOG NUMBER: LDSQA3D20R409735D010 3LSQCA30R 1MB

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|
| 0° | 200.0 | 200.0 | 200.0 | 200.0 | 200.0 | 200.0 | 200.0 | 200.0 | 200.0 | 200.0 | 200.0 |
| 2.5° | 466.1 | 456.7 | 463.0 | 450.4 | 450.4 | 422.0 | 423.6 | 400.0 | 365.4 | 278.7 | 198.4 |
| 5° | 845.7 | 883.5 | 853.5 | 814.2 | 792.1 | 763.8 | 726.0 | 686.6 | 576.4 | 348.0 | 174.8 |
| 7.5° | 1415.8 | 1412.6 | 1362.2 | 1319.7 | 1270.9 | 1195.3 | 1124.4 | 1028.4 | 820.5 | 398.4 | 144.9 |
| 10° | 2009.5 | 1998.4 | 1941.7 | 1905.5 | 1812.6 | 1703.9 | 1559.1 | 1404.7 | 1059.8 | 415.8 | 107.1 |
| 12.5° | 2504.0 | 2489.8 | 2442.5 | 2381.1 | 2278.8 | 2141.7 | 1985.8 | 1782.7 | 1311.8 | 396.9 | 69.3 |
| 15° | 2900.8 | 2897.7 | 2852.0 | 2768.5 | 2661.4 | 2527.6 | 2351.2 | 2107.1 | 1510.2 | 348.0 | 44.1 |
| 17.5° | 3371.7 | 3390.6 | 3308.7 | 3218.9 | 3064.6 | 2877.2 | 2661.4 | 2382.7 | 1656.7 | 288.2 | 28.3 |
| 20° | 3989.0 | 3962.2 | 3886.6 | 3755.9 | 3607.9 | 3382.7 | 3077.2 | 2678.8 | 1741.7 | 223.6 | 15.7 |
| 21° | 4178.0 | 4167.0 | 4088.2 | 3967.0 | 3803.2 | 3574.8 | 3259.9 | 2829.9 | 1781.1 | 200.0 | 12.6 |
| 22° | 4370.1 | 4351.2 | 4289.8 | 4171.7 | 4017.3 | 3759.1 | 3412.6 | 2985.8 | 1831.5 | 174.8 | 7.9 |
| 23° | 4513.4 | 4505.5 | 4458.3 | 4341.8 | 4182.7 | 3932.3 | 3578.0 | 3130.7 | 1866.2 | 151.2 | 4.7 |
| 24° | 4623.7 | 4614.2 | 4567.0 | 4478.8 | 4341.8 | 4080.3 | 3744.9 | 3286.6 | 1880.3 | 130.7 | 1.6 |
| 25° | 4659.9 | 4664.6 | 4636.3 | 4567.0 | 4452.0 | 4190.6 | 3869.3 | 3409.5 | 1864.6 | 111.8 | 0.0 |
| 26° | 4661.4 | 4675.6 | 4655.1 | 4615.8 | 4521.3 | 4278.8 | 3985.9 | 3481.9 | 1823.6 | 94.5 | 0.0 |
| 27° | 4661.4 | 4675.6 | 4655.1 | 4625.2 | 4532.3 | 4329.2 | 4048.8 | 3489.8 | 1760.6 | 80.3 | 0.0 |
| 28° | 4683.5 | 4691.4 | 4664.6 | 4628.4 | 4527.6 | 4344.9 | 4066.2 | 3442.5 | 1659.9 | 69.3 | 0.0 |
| 29° | 4744.9 | 4737.0 | 4692.9 | 4644.1 | 4522.9 | 4344.9 | 4014.2 | 3352.8 | 1533.9 | 58.3 | 0.0 |
| 30° | 4834.7 | 4834.7 | 4765.4 | 4688.2 | 4544.9 | 4343.3 | 3930.7 | 3190.6 | 1393.7 | 47.2 | 0.0 |
| 31° | 4955.9 | 4944.9 | 4875.6 | 4760.7 | 4592.2 | 4343.3 | 3807.9 | 3011.0 | 1264.6 | 40.9 | 0.0 |
| 32° | 5037.8 | 5031.5 | 4965.4 | 4830.0 | 4669.3 | 4343.3 | 3675.6 | 2812.6 | 1124.4 | 33.1 | 0.0 |
| 33° | 5094.5 | 5081.9 | 5006.3 | 4866.2 | 4716.6 | 4321.3 | 3527.6 | 2600.0 | 998.4 | 26.8 | 0.0 |
| 34° | 5086.6 | 5083.5 | 5004.8 | 4859.9 | 4707.1 | 4229.9 | 3355.9 | 2363.8 | 881.9 | 22.0 | 0.0 |
| 35° | 5042.6 | 5042.6 | 4946.5 | 4796.9 | 4639.4 | 4096.1 | 3185.8 | 2162.2 | 771.7 | 15.7 | 0.0 |
| 36° | 5009.5 | 4996.9 | 4888.2 | 4721.3 | 4526.0 | 3885.1 | 2933.9 | 1959.1 | 653.5 | 12.6 | 0.0 |
| 37° | 4960.7 | 4937.0 | 4815.8 | 4636.3 | 4365.4 | 3656.7 | 2669.3 | 1778.0 | 552.8 | 7.9 | 0.0 |
| 38° | 4897.7 | 4861.4 | 4713.4 | 4537.0 | 4189.0 | 3393.7 | 2400.0 | 1574.8 | 459.8 | 4.7 | 0.0 |
| 39° | 4782.7 | 4752.8 | 4600.0 | 4409.5 | 3978.0 | 3116.6 | 2138.6 | 1384.3 | 371.7 | 1.6 | 0.0 |
| 40° | 4680.3 | 4628.4 | 4455.1 | 4236.2 | 3730.7 | 2803.2 | 1878.8 | 1196.9 | 292.9 | 0.0 | 0.0 |
| 42.5° | 3946.5 | 3891.4 | 3852.0 | 3634.7 | 2971.7 | 2012.6 | 1311.8 | 766.9 | 152.8 | 0.0 | 0.0 |
| 45° | 2675.6 | 2688.2 | 2565.4 | 2418.9 | 1960.6 | 1311.8 | 820.5 | 426.8 | 78.7 | 0.0 | 0.0 |
| 47.5° | 1951.2 | 1918.1 | 1751.2 | 1474.0 | 1149.6 | 766.9 | 428.3 | 206.3 | 31.5 | 0.0 | 0.0 |
| 50° | 1354.3 | 1291.3 | 1140.2 | 932.3 | 625.2 | 365.4 | 189.0 | 96.1 | 1.6 | 0.0 | 0.0 |
| 52.5° | 735.4 | 691.3 | 585.8 | 425.2 | 259.8 | 140.2 | 75.6 | 39.4 | 0.0 | 0.0 | 0.0 |
| 55° | 118.1 | 81.9 | 85.0 | 72.4 | 56.7 | 40.9 | 23.6 | 4.7 | 0.0 | 0.0 | 0.0 |
| 57.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.6 | 0.0 | 0.0 | 0.0 | 1.6 | 1.6 |
| 60° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.6 | 1.6 |
| 62.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.6 | 1.6 |
| 65° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.6 | 1.6 |
| 67.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 3.1 | 3.1 |
| 70° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.6 | 3.1 | 3.1 |
| 72.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.6 | 3.1 | 3.1 |
| 75° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.6 | 1.6 | 3.1 | 3.1 |
| 77.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.6 | 3.1 | 3.1 |
| 80° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.6 | 1.6 | 3.1 | 3.1 |



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CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 45° | 67.5° | 90° |
|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|-----|
| 82.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.6 | 1.6 | 3.1 | 3.1 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.6 | 3.1 | 3.1 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.6 | 1.6 | 3.1 | 3.1 |
| 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: P1315950
 CATALOG NUMBER: LDSQA3D20R409735D010 3LSQCA30R 1MB

CANDELA DISTRIBUTION (continued):

| | 112.5° | 135° | 157.5° | 180° |
|-------|--------|-------|--------|-------|
| 0° | 200.0 | 200.0 | 200.0 | 200.0 |
| 2.5° | 133.9 | 91.3 | 69.3 | 59.8 |
| 5° | 77.2 | 31.5 | 17.3 | 15.7 |
| 7.5° | 37.8 | 11.0 | 6.3 | 6.3 |
| 10° | 15.7 | 3.1 | 0.0 | 0.0 |
| 12.5° | 4.7 | 0.0 | 0.0 | 0.0 |
| 15° | 0.0 | 0.0 | 0.0 | 0.0 |
| 17.5° | 0.0 | 0.0 | 0.0 | 0.0 |
| 20° | 0.0 | 0.0 | 0.0 | 0.0 |
| 21° | 0.0 | 0.0 | 0.0 | 0.0 |
| 22° | 0.0 | 0.0 | 0.0 | 0.0 |
| 23° | 0.0 | 0.0 | 0.0 | 0.0 |
| 24° | 0.0 | 0.0 | 0.0 | 0.0 |
| 25° | 0.0 | 0.0 | 0.0 | 0.0 |
| 26° | 0.0 | 0.0 | 0.0 | 0.0 |
| 27° | 0.0 | 0.0 | 0.0 | 0.0 |
| 28° | 0.0 | 0.0 | 0.0 | 0.0 |
| 29° | 0.0 | 0.0 | 0.0 | 0.0 |
| 30° | 0.0 | 0.0 | 0.0 | 0.0 |
| 31° | 0.0 | 0.0 | 0.0 | 0.0 |
| 32° | 0.0 | 0.0 | 0.0 | 0.0 |
| 33° | 0.0 | 0.0 | 0.0 | 0.0 |
| 34° | 0.0 | 0.0 | 0.0 | 0.0 |
| 35° | 0.0 | 0.0 | 0.0 | 0.0 |
| 36° | 0.0 | 0.0 | 0.0 | 0.0 |
| 37° | 0.0 | 0.0 | 0.0 | 0.0 |
| 38° | 0.0 | 0.0 | 0.0 | 0.0 |
| 39° | 0.0 | 0.0 | 0.0 | 0.0 |
| 40° | 0.0 | 0.0 | 0.0 | 0.0 |
| 42.5° | 0.0 | 0.0 | 0.0 | 0.0 |
| 45° | 0.0 | 0.0 | 0.0 | 0.0 |
| 47.5° | 0.0 | 0.0 | 0.0 | 0.0 |
| 50° | 0.0 | 0.0 | 0.0 | 0.0 |
| 52.5° | 0.0 | 0.0 | 0.0 | 0.0 |
| 55° | 0.0 | 0.0 | 0.0 | 0.0 |
| 57.5° | 0.0 | 0.0 | 0.0 | 0.0 |
| 60° | 0.0 | 0.0 | 0.0 | 0.0 |
| 62.5° | 0.0 | 0.0 | 0.0 | 0.0 |
| 65° | 1.6 | 0.0 | 0.0 | 0.0 |
| 67.5° | 1.6 | 0.0 | 0.0 | 0.0 |
| 70° | 1.6 | 0.0 | 0.0 | 0.0 |
| 72.5° | 1.6 | 0.0 | 0.0 | 0.0 |
| 75° | 1.6 | 0.0 | 0.0 | 0.0 |
| 77.5° | 1.6 | 0.0 | 0.0 | 0.0 |
| 80° | 1.6 | 0.0 | 0.0 | 0.0 |



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CANDELA DISTRIBUTION (continued):

| | 112.5° | 135° | 157.5° | 180° |
|-------|--------|------|--------|------|
| 82.5° | 1.6 | 0.0 | 0.0 | 0.0 |
| 85° | 1.6 | 0.0 | 0.0 | 0.0 |
| 87.5° | 1.6 | 0.0 | 0.0 | 0.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)