

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: P1309575

Luminaire Tested: LDSQA3D20R409030D010 3LSQCA30R 1MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1309575
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: LDSQA3D20R409030D010 3LSQCA30R 1MB
Description: 3in Adjustable LED luminaire with, R40 optic, 3000K CCT AND, 90CRI , 3LSQCA30R 1MB TRIM
Light Source: -
Ballast/Driver: -

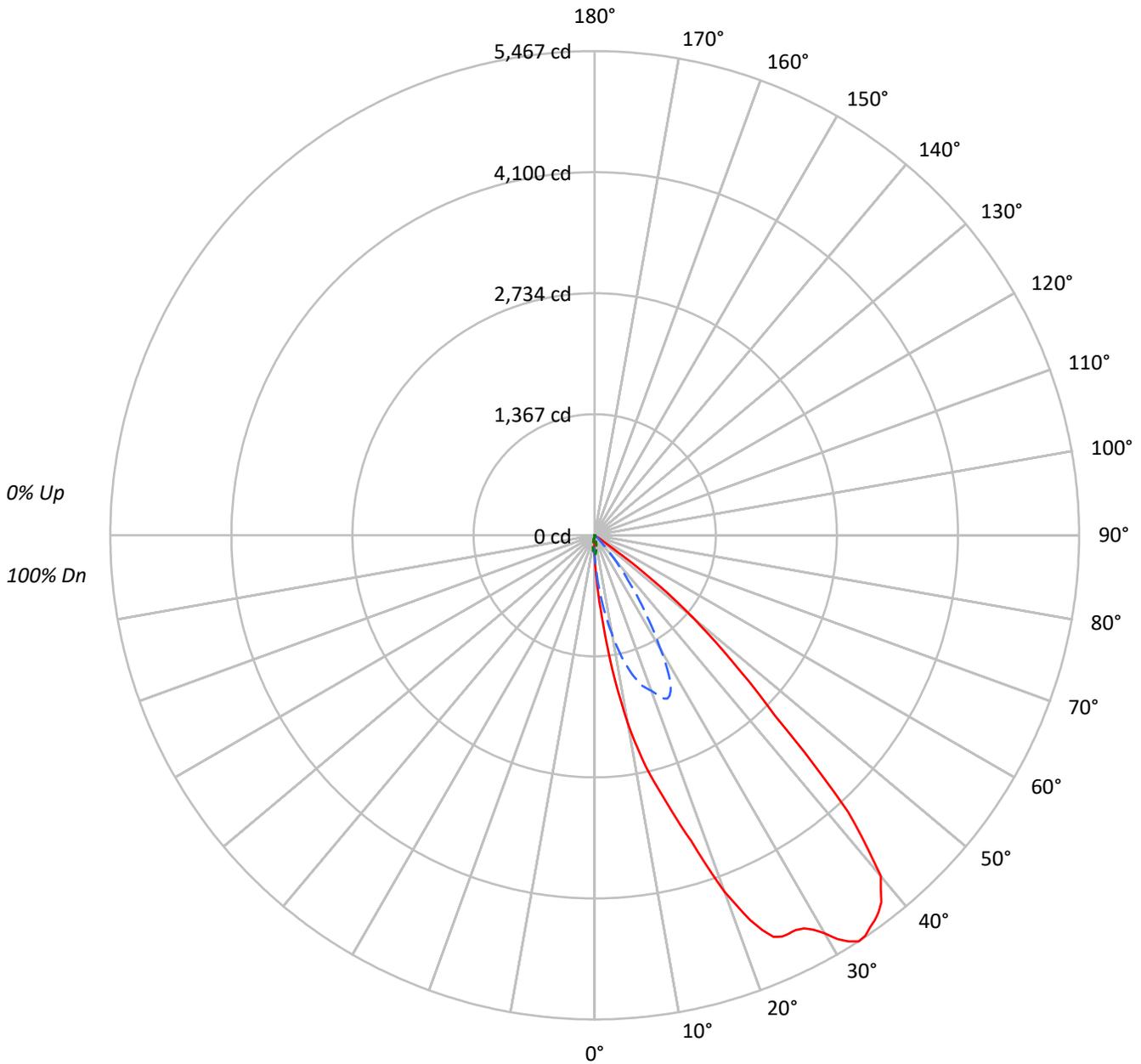
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1835.0 lumens
Efficiency: N/A
Efficacy: 63.7 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 (A_{in}): 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 | | | | 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° | 36959 | 36959 | 36959 | 36959 | 36959 |
| 5° | 156889 | 106927 | 32432 | 5843 | 2922 |
| 10° | 377110 | 198890 | 20094 | 595 | 0 |
| 15° | 555024 | 288950 | 8433 | 0 | 0 |
| 20° | 784529 | 342560 | 3097 | 0 | 0 |
| 25° | 950228 | 380224 | 0 | 0 | 0 |
| 30° | 1031734 | 297423 | 0 | 0 | 0 |
| 35° | 1137678 | 174104 | 0 | 0 | 0 |
| 40° | 1129162 | 70661 | 0 | 0 | 0 |
| 45° | 699308 | 20581 | 0 | 0 | 0 |
| 50° | 389384 | 455 | 0 | 0 | 0 |
| 55° | 38043 | 0 | 0 | 0 | 0 |
| 60° | 0 | 0 | 586 | 0 | 0 |
| 65° | 0 | 0 | 693 | 0 | 0 |
| 70° | 0 | 856 | 1712 | 0 | 0 |
| 75° | 0 | 1131 | 2262 | 0 | 0 |
| 80° | 0 | 1686 | 3372 | 0 | 0 |
| 85° | 0 | 3359 | 6719 | 0 | 0 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 5°
 Vertical Angle: 45°
 Luminance: 702596 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 40.2 | 2.2 |
| 10°-20° | 236.5 | 12.9 |
| 20°-30° | 539.9 | 29.4 |
| 30°-40° | 637.5 | 34.7 |
| 40°-50° | 340.6 | 18.6 |
| 50°-60° | 37.0 | 2.0 |
| 60°-70° | 0.7 | 0.0 |
| 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° | 816.6 | 44.5 |
| 0°-40° | 1454.2 | 79.2 |
| 0°-60° | 1831.8 | 99.8 |
| 0°-90° | 1835.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 1835.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|-----|------|------|------|
| 0° | 215 | 215 | 215 | 215 | 215 | |
| 5° | 908 | 618 | 188 | 34 | 17 | 128 |
| 15° | 3113 | 1621 | 47 | 0 | 0 | 925 |
| 25° | 5000 | 2001 | 0 | 0 | 0 | 2271 |
| 35° | 5411 | 828 | 0 | 0 | 0 | 3342 |
| 45° | 2871 | 84 | 0 | 0 | 0 | 2367 |
| 55° | 127 | 0 | 0 | 0 | 0 | 355 |
| 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 | |



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 CATALOG NUMBER: LDSQA3D20R409030D010 3LSQCA30R 1MB

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|
| 0° | 214.6 | 214.6 | 214.6 | 214.6 | 214.6 | 214.6 | 214.6 | 214.6 | 214.6 | 214.6 | 214.6 |
| 2.5° | 500.2 | 490.1 | 496.8 | 483.3 | 483.3 | 452.9 | 454.6 | 429.2 | 392.1 | 299.1 | 212.9 |
| 5° | 907.5 | 948.1 | 915.9 | 873.7 | 850.0 | 819.6 | 779.1 | 736.8 | 618.5 | 373.5 | 187.6 |
| 7.5° | 1519.2 | 1515.9 | 1461.8 | 1416.2 | 1363.8 | 1282.7 | 1206.6 | 1103.5 | 880.5 | 427.6 | 155.5 |
| 10° | 2156.4 | 2144.5 | 2083.7 | 2044.8 | 1945.1 | 1828.5 | 1673.0 | 1507.4 | 1137.3 | 446.1 | 114.9 |
| 12.5° | 2687.0 | 2671.8 | 2621.1 | 2555.2 | 2445.3 | 2298.3 | 2131.0 | 1913.0 | 1407.7 | 425.9 | 74.4 |
| 15° | 3112.9 | 3109.5 | 3060.5 | 2970.9 | 2856.0 | 2712.3 | 2523.1 | 2261.1 | 1620.6 | 373.5 | 47.3 |
| 17.5° | 3618.1 | 3638.4 | 3550.5 | 3454.2 | 3288.6 | 3087.5 | 2856.0 | 2556.9 | 1777.8 | 309.3 | 30.4 |
| 20° | 4280.6 | 4251.9 | 4170.7 | 4030.5 | 3871.6 | 3630.0 | 3302.1 | 2874.6 | 1869.1 | 240.0 | 16.9 |
| 21° | 4483.4 | 4471.6 | 4387.1 | 4256.9 | 4081.2 | 3836.1 | 3498.2 | 3036.8 | 1911.3 | 214.6 | 13.5 |
| 22° | 4689.6 | 4669.3 | 4603.4 | 4476.6 | 4311.0 | 4033.9 | 3662.1 | 3204.1 | 1965.4 | 187.6 | 8.4 |
| 23° | 4843.3 | 4834.9 | 4784.2 | 4659.1 | 4488.5 | 4219.8 | 3839.5 | 3359.6 | 2002.6 | 162.2 | 5.1 |
| 24° | 4961.6 | 4951.5 | 4900.8 | 4806.2 | 4659.1 | 4378.6 | 4018.7 | 3526.9 | 2017.8 | 140.3 | 1.7 |
| 25° | 5000.5 | 5005.6 | 4975.2 | 4900.8 | 4777.4 | 4496.9 | 4152.2 | 3658.7 | 2000.9 | 120.0 | 0.0 |
| 26° | 5002.2 | 5017.4 | 4995.4 | 4953.2 | 4851.8 | 4591.5 | 4277.2 | 3736.4 | 1956.9 | 101.4 | 0.0 |
| 27° | 5002.2 | 5017.4 | 4995.4 | 4963.3 | 4863.6 | 4645.6 | 4344.8 | 3744.9 | 1889.3 | 86.2 | 0.0 |
| 28° | 5025.9 | 5034.3 | 5005.6 | 4966.7 | 4858.6 | 4662.5 | 4363.4 | 3694.2 | 1781.2 | 74.4 | 0.0 |
| 29° | 5091.8 | 5083.3 | 5036.0 | 4983.6 | 4853.5 | 4662.5 | 4307.6 | 3597.9 | 1646.0 | 62.5 | 0.0 |
| 30° | 5188.1 | 5188.1 | 5113.7 | 5030.9 | 4877.1 | 4660.8 | 4218.1 | 3423.8 | 1495.6 | 50.7 | 0.0 |
| 31° | 5318.2 | 5306.4 | 5232.0 | 5108.7 | 4927.8 | 4660.8 | 4086.3 | 3231.1 | 1357.0 | 43.9 | 0.0 |
| 32° | 5406.1 | 5399.3 | 5328.4 | 5183.0 | 5010.6 | 4660.8 | 3944.3 | 3018.2 | 1206.6 | 35.5 | 0.0 |
| 33° | 5466.9 | 5453.4 | 5372.3 | 5221.9 | 5061.3 | 4637.2 | 3785.4 | 2790.1 | 1071.4 | 28.7 | 0.0 |
| 34° | 5458.5 | 5455.1 | 5370.6 | 5215.1 | 5051.2 | 4539.2 | 3601.2 | 2536.6 | 946.4 | 23.7 | 0.0 |
| 35° | 5411.2 | 5411.2 | 5308.1 | 5147.5 | 4978.5 | 4395.5 | 3418.7 | 2320.3 | 828.1 | 16.9 | 0.0 |
| 36° | 5375.7 | 5362.2 | 5245.5 | 5066.4 | 4856.9 | 4169.1 | 3148.3 | 2102.3 | 701.3 | 13.5 | 0.0 |
| 37° | 5323.3 | 5297.9 | 5167.8 | 4975.2 | 4684.5 | 3924.0 | 2864.4 | 1907.9 | 593.2 | 8.4 | 0.0 |
| 38° | 5255.7 | 5216.8 | 5058.0 | 4868.7 | 4495.2 | 3641.8 | 2575.5 | 1689.9 | 493.5 | 5.1 | 0.0 |
| 39° | 5132.3 | 5100.2 | 4936.3 | 4731.8 | 4268.8 | 3344.4 | 2294.9 | 1485.4 | 398.8 | 1.7 | 0.0 |
| 40° | 5022.5 | 4966.7 | 4780.8 | 4545.9 | 4003.4 | 3008.1 | 2016.1 | 1284.3 | 314.3 | 0.0 | 0.0 |
| 42.5° | 4235.0 | 4175.8 | 4133.6 | 3900.4 | 3188.9 | 2159.7 | 1407.7 | 823.0 | 163.9 | 0.0 | 0.0 |
| 45° | 2871.2 | 2884.7 | 2752.9 | 2595.7 | 2104.0 | 1407.7 | 880.5 | 458.0 | 84.5 | 0.0 | 0.0 |
| 47.5° | 2093.8 | 2058.3 | 1879.2 | 1581.8 | 1233.6 | 823.0 | 459.7 | 221.4 | 33.8 | 0.0 | 0.0 |
| 50° | 1453.3 | 1385.7 | 1223.5 | 1000.4 | 670.9 | 392.1 | 202.8 | 103.1 | 1.7 | 0.0 | 0.0 |
| 52.5° | 789.2 | 741.9 | 628.7 | 456.3 | 278.8 | 150.4 | 81.1 | 42.2 | 0.0 | 0.0 | 0.0 |
| 55° | 126.7 | 87.9 | 91.3 | 77.7 | 60.8 | 43.9 | 25.3 | 5.1 | 0.0 | 0.0 | 0.0 |
| 57.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.7 | 0.0 | 0.0 | 0.0 | 1.7 | 1.7 |
| 60° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.7 | 1.7 |
| 62.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.7 | 1.7 |
| 65° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.7 | 1.7 |
| 67.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 3.4 | 3.4 |
| 70° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.7 | 3.4 | 3.4 |
| 72.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.7 | 3.4 | 3.4 |
| 75° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.7 | 1.7 | 3.4 | 3.4 |
| 77.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.7 | 3.4 | 3.4 |
| 80° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.7 | 1.7 | 3.4 | 3.4 |



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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 | 1.7 | 1.7 | 3.4 | 3.4 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.7 | 3.4 | 3.4 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.7 | 1.7 | 3.4 | 3.4 |
| 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: P1309575
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CANDELA DISTRIBUTION (continued):

| | 112.5° | 135° | 157.5° | 180° |
|-------|--------|-------|--------|-------|
| 0° | 214.6 | 214.6 | 214.6 | 214.6 |
| 2.5° | 143.6 | 98.0 | 74.4 | 64.2 |
| 5° | 82.8 | 33.8 | 18.6 | 16.9 |
| 7.5° | 40.6 | 11.8 | 6.8 | 6.8 |
| 10° | 16.9 | 3.4 | 0.0 | 0.0 |
| 12.5° | 5.1 | 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° | 1.7 | 0.0 | 0.0 | 0.0 |
| 67.5° | 1.7 | 0.0 | 0.0 | 0.0 |
| 70° | 1.7 | 0.0 | 0.0 | 0.0 |
| 72.5° | 1.7 | 0.0 | 0.0 | 0.0 |
| 75° | 1.7 | 0.0 | 0.0 | 0.0 |
| 77.5° | 1.7 | 0.0 | 0.0 | 0.0 |
| 80° | 1.7 | 0.0 | 0.0 | 0.0 |



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CANDELA DISTRIBUTION (continued):

| | 112.5° | 135° | 157.5° | 180° |
|-------|--------|------|--------|------|
| 82.5° | 1.7 | 0.0 | 0.0 | 0.0 |
| 85° | 1.7 | 0.0 | 0.0 | 0.0 |
| 87.5° | 1.7 | 0.0 | 0.0 | 0.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)