

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: P1310693

Luminaire Tested: LDSQA3D20R409035D010 3LSQCA30R 1MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1310693
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: LDSQA3D20R409035D010 3LSQCA30R 1MB
Description: 3in Adjustable LED luminaire with, R40 optic, 3500K CCT AND, 90CRI , 3LSQCA30R 1MB TRIM
Light Source: -
Ballast/Driver: -

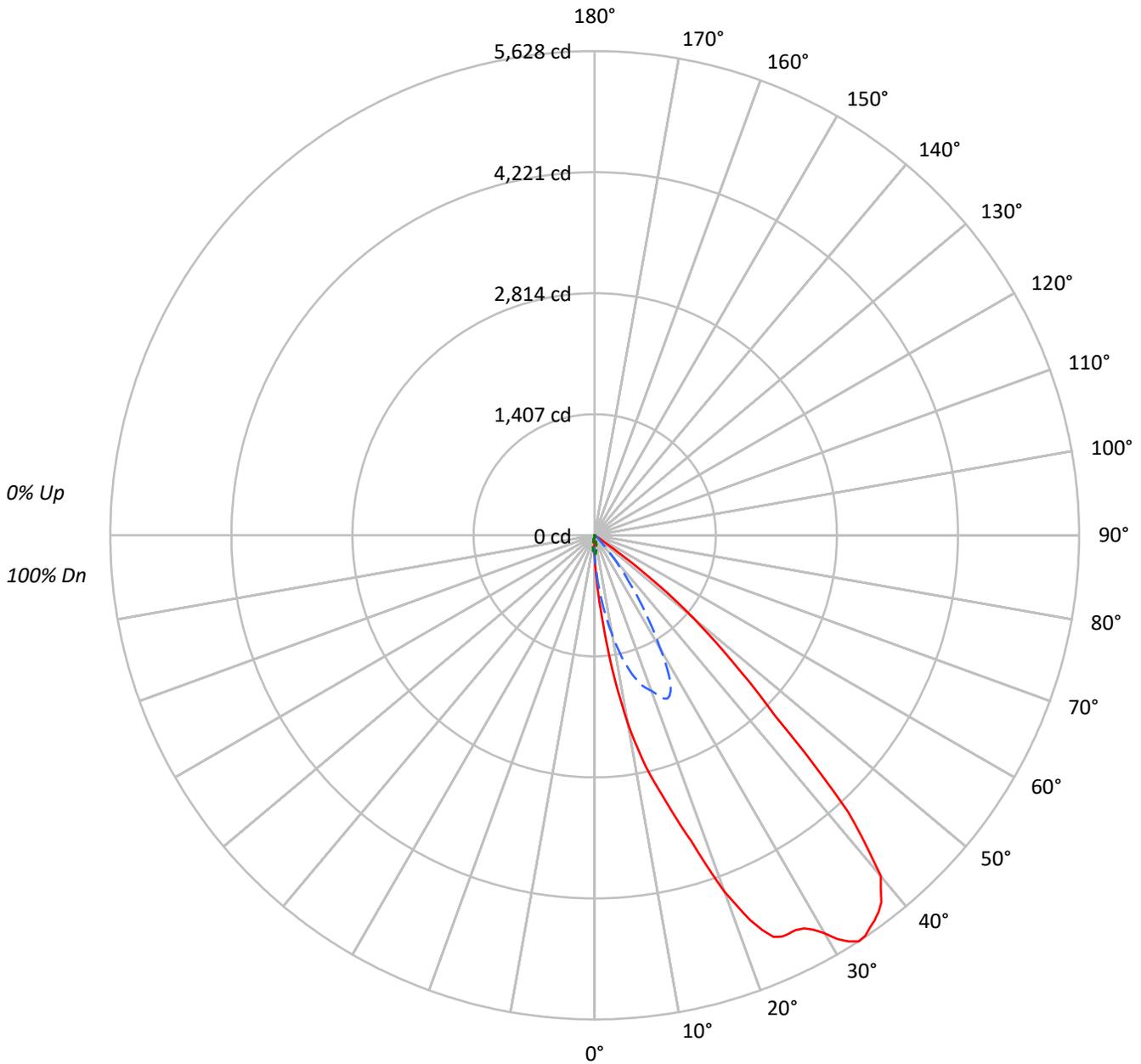
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1889.0 lumens
Efficiency: N/A
Efficacy: 65.6 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

TEST NUMBER: P1310693
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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° | 38044 | 38044 | 38044 | 38044 | 38044 |
| 5° | 161505 | 110073 | 33383 | 6016 | 3008 |
| 10° | 388197 | 204749 | 20688 | 612 | 0 |
| 15° | 571356 | 297455 | 8683 | 0 | 0 |
| 20° | 807622 | 352640 | 3189 | 0 | 0 |
| 25° | 978200 | 391417 | 0 | 0 | 0 |
| 30° | 1062101 | 306173 | 0 | 0 | 0 |
| 35° | 1171149 | 179213 | 0 | 0 | 0 |
| 40° | 1162390 | 72752 | 0 | 0 | 0 |
| 45° | 719889 | 21190 | 0 | 0 | 0 |
| 50° | 400851 | 455 | 0 | 0 | 0 |
| 55° | 39184 | 0 | 0 | 0 | 0 |
| 60° | 0 | 0 | 586 | 0 | 0 |
| 65° | 0 | 0 | 693 | 0 | 0 |
| 70° | 0 | 856 | 1762 | 0 | 0 |
| 75° | 0 | 1131 | 2329 | 0 | 0 |
| 80° | 0 | 1686 | 3471 | 0 | 0 |
| 85° | 0 | 3359 | 6916 | 0 | 0 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 5°
 Vertical Angle: 45°
 Luminance: 723275 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 41.4 | 2.2 |
| 10°-20° | 243.5 | 12.9 |
| 20°-30° | 555.8 | 29.4 |
| 30°-40° | 656.3 | 34.7 |
| 40°-50° | 350.6 | 18.6 |
| 50°-60° | 38.1 | 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° | 840.7 | 44.5 |
| 0°-40° | 1496.9 | 79.2 |
| 0°-60° | 1885.7 | 99.8 |
| 0°-90° | 1889.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 1889.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|-----|------|------|------|
| 0° | 221 | 221 | 221 | 221 | 221 | |
| 5° | 934 | 637 | 193 | 35 | 17 | 131 |
| 15° | 3204 | 1668 | 49 | 0 | 0 | 952 |
| 25° | 5148 | 2060 | 0 | 0 | 0 | 2337 |
| 35° | 5570 | 852 | 0 | 0 | 0 | 3441 |
| 45° | 2956 | 87 | 0 | 0 | 0 | 2437 |
| 55° | 130 | 0 | 0 | 0 | 0 | 366 |
| 65° | 0 | 0 | 2 | 0 | 0 | 0 |
| 75° | 0 | 2 | 4 | 0 | 0 | 0 |
| 85° | 0 | 2 | 4 | 0 | 0 | 0 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P1310693

CATALOG NUMBER: LDSQA3D20R409035D010 3LSQCA30R 1MB

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|
| 0° | 220.9 | 220.9 | 220.9 | 220.9 | 220.9 | 220.9 | 220.9 | 220.9 | 220.9 | 220.9 | 220.9 |
| 2.5° | 514.9 | 504.5 | 511.5 | 497.5 | 497.5 | 466.2 | 468.0 | 441.9 | 403.6 | 307.9 | 219.2 |
| 5° | 934.2 | 976.0 | 942.9 | 899.4 | 875.1 | 843.7 | 802.0 | 758.5 | 636.7 | 384.5 | 193.1 |
| 7.5° | 1564.0 | 1560.5 | 1504.8 | 1457.8 | 1403.9 | 1320.4 | 1242.1 | 1136.0 | 906.4 | 440.1 | 160.0 |
| 10° | 2219.8 | 2207.6 | 2145.0 | 2105.0 | 2002.4 | 1882.3 | 1722.3 | 1551.8 | 1170.8 | 459.3 | 118.3 |
| 12.5° | 2766.1 | 2750.4 | 2698.2 | 2630.4 | 2517.3 | 2365.9 | 2193.7 | 1969.3 | 1449.1 | 438.4 | 76.5 |
| 15° | 3204.5 | 3201.0 | 3150.5 | 3058.3 | 2940.0 | 2792.2 | 2597.3 | 2327.7 | 1668.3 | 384.5 | 48.7 |
| 17.5° | 3724.6 | 3745.5 | 3655.0 | 3555.9 | 3385.4 | 3178.4 | 2940.0 | 2632.1 | 1830.1 | 318.4 | 31.3 |
| 20° | 4406.6 | 4377.0 | 4293.5 | 4149.1 | 3985.6 | 3736.8 | 3399.3 | 2959.2 | 1924.1 | 247.0 | 17.4 |
| 21° | 4615.3 | 4603.1 | 4516.2 | 4382.2 | 4201.3 | 3949.0 | 3601.1 | 3126.2 | 1967.6 | 220.9 | 13.9 |
| 22° | 4827.6 | 4806.7 | 4738.8 | 4608.4 | 4437.9 | 4152.6 | 3769.8 | 3298.4 | 2023.2 | 193.1 | 8.7 |
| 23° | 4985.9 | 4977.2 | 4925.0 | 4796.2 | 4620.5 | 4343.9 | 3952.5 | 3458.4 | 2061.5 | 167.0 | 5.2 |
| 24° | 5107.6 | 5097.2 | 5045.0 | 4947.6 | 4796.2 | 4507.5 | 4136.9 | 3630.7 | 2077.2 | 144.4 | 1.7 |
| 25° | 5147.7 | 5152.9 | 5121.6 | 5045.0 | 4918.0 | 4629.2 | 4274.3 | 3766.4 | 2059.8 | 123.5 | 0.0 |
| 26° | 5149.4 | 5165.1 | 5142.4 | 5098.9 | 4994.6 | 4726.7 | 4403.1 | 3846.4 | 2014.5 | 104.4 | 0.0 |
| 27° | 5149.4 | 5165.1 | 5142.4 | 5109.4 | 5006.7 | 4782.3 | 4472.7 | 3855.1 | 1944.9 | 88.7 | 0.0 |
| 28° | 5173.8 | 5182.5 | 5152.9 | 5112.9 | 5001.5 | 4799.7 | 4491.8 | 3802.9 | 1833.6 | 76.5 | 0.0 |
| 29° | 5241.6 | 5232.9 | 5184.2 | 5130.3 | 4996.3 | 4799.7 | 4434.4 | 3703.7 | 1694.4 | 64.4 | 0.0 |
| 30° | 5340.8 | 5340.8 | 5264.2 | 5179.0 | 5020.7 | 4798.0 | 4342.2 | 3524.6 | 1539.6 | 52.2 | 0.0 |
| 31° | 5474.7 | 5462.5 | 5386.0 | 5259.0 | 5072.9 | 4798.0 | 4206.5 | 3326.2 | 1396.9 | 45.2 | 0.0 |
| 32° | 5565.2 | 5558.2 | 5485.2 | 5335.5 | 5158.1 | 4798.0 | 4060.4 | 3107.0 | 1242.1 | 36.5 | 0.0 |
| 33° | 5627.8 | 5613.9 | 5530.4 | 5375.6 | 5210.3 | 4773.6 | 3896.8 | 2872.2 | 1102.9 | 29.6 | 0.0 |
| 34° | 5619.1 | 5615.6 | 5528.6 | 5368.6 | 5199.8 | 4672.7 | 3707.2 | 2611.2 | 974.2 | 24.4 | 0.0 |
| 35° | 5570.4 | 5570.4 | 5464.3 | 5299.0 | 5125.0 | 4524.9 | 3519.3 | 2388.6 | 852.4 | 17.4 | 0.0 |
| 36° | 5533.9 | 5519.9 | 5399.9 | 5215.5 | 4999.8 | 4291.7 | 3241.0 | 2164.1 | 722.0 | 13.9 | 0.0 |
| 37° | 5479.9 | 5453.8 | 5319.9 | 5121.6 | 4822.3 | 4039.5 | 2948.7 | 1964.1 | 610.6 | 8.7 | 0.0 |
| 38° | 5410.3 | 5370.3 | 5206.8 | 5012.0 | 4627.5 | 3749.0 | 2651.2 | 1739.7 | 508.0 | 5.2 | 0.0 |
| 39° | 5283.4 | 5250.3 | 5081.6 | 4871.1 | 4394.4 | 3442.8 | 2362.5 | 1529.2 | 410.6 | 1.7 | 0.0 |
| 40° | 5170.3 | 5112.9 | 4921.5 | 4679.7 | 4121.3 | 3096.6 | 2075.4 | 1322.1 | 323.6 | 0.0 | 0.0 |
| 42.5° | 4359.6 | 4298.7 | 4255.2 | 4015.1 | 3282.7 | 2223.3 | 1449.1 | 847.2 | 168.7 | 0.0 | 0.0 |
| 45° | 2955.7 | 2969.6 | 2833.9 | 2672.1 | 2165.9 | 1449.1 | 906.4 | 471.4 | 87.0 | 0.0 | 0.0 |
| 47.5° | 2155.4 | 2118.9 | 1934.5 | 1628.3 | 1270.0 | 847.2 | 473.2 | 227.9 | 34.8 | 0.0 | 0.0 |
| 50° | 1496.1 | 1426.5 | 1259.5 | 1029.9 | 690.6 | 403.6 | 208.8 | 106.1 | 1.7 | 0.0 | 0.0 |
| 52.5° | 812.4 | 763.7 | 647.2 | 469.7 | 287.0 | 154.8 | 83.5 | 43.5 | 0.0 | 0.0 | 0.0 |
| 55° | 130.5 | 90.5 | 93.9 | 80.0 | 62.6 | 45.2 | 26.1 | 5.2 | 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 | 3.5 | 3.5 |
| 70° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.7 | 3.5 | 3.5 |
| 72.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.7 | 3.5 | 3.5 |
| 75° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.7 | 1.7 | 3.5 | 3.5 |
| 77.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.7 | 3.5 | 3.5 |
| 80° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.7 | 1.7 | 3.5 | 3.5 |



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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 | 3.5 | 3.5 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.7 | 3.5 | 3.5 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.7 | 1.7 | 3.5 | 3.5 |
| 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):

| | 112.5° | 135° | 157.5° | 180° |
|-------|--------|-------|--------|-------|
| 0° | 220.9 | 220.9 | 220.9 | 220.9 |
| 2.5° | 147.9 | 100.9 | 76.5 | 66.1 |
| 5° | 85.2 | 34.8 | 19.1 | 17.4 |
| 7.5° | 41.8 | 12.2 | 7.0 | 7.0 |
| 10° | 17.4 | 3.5 | 0.0 | 0.0 |
| 12.5° | 5.2 | 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)