

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: P1325933

Luminaire Tested: LDSQA3D09R20W2N902750DE010 3LSQCA30R 1MW_3000K

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1325933
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-60)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D09R20W2N902750DE010 3LSQCA30R 1MW_3000K
Description: 3in Adjustable Tunable White LED luminaire with, R20 optic, 3000K CCT AND, 90CRI ,
3LSQCA30R 1MW TRIM
Light Source: -
Ballast/Driver: -

Summary

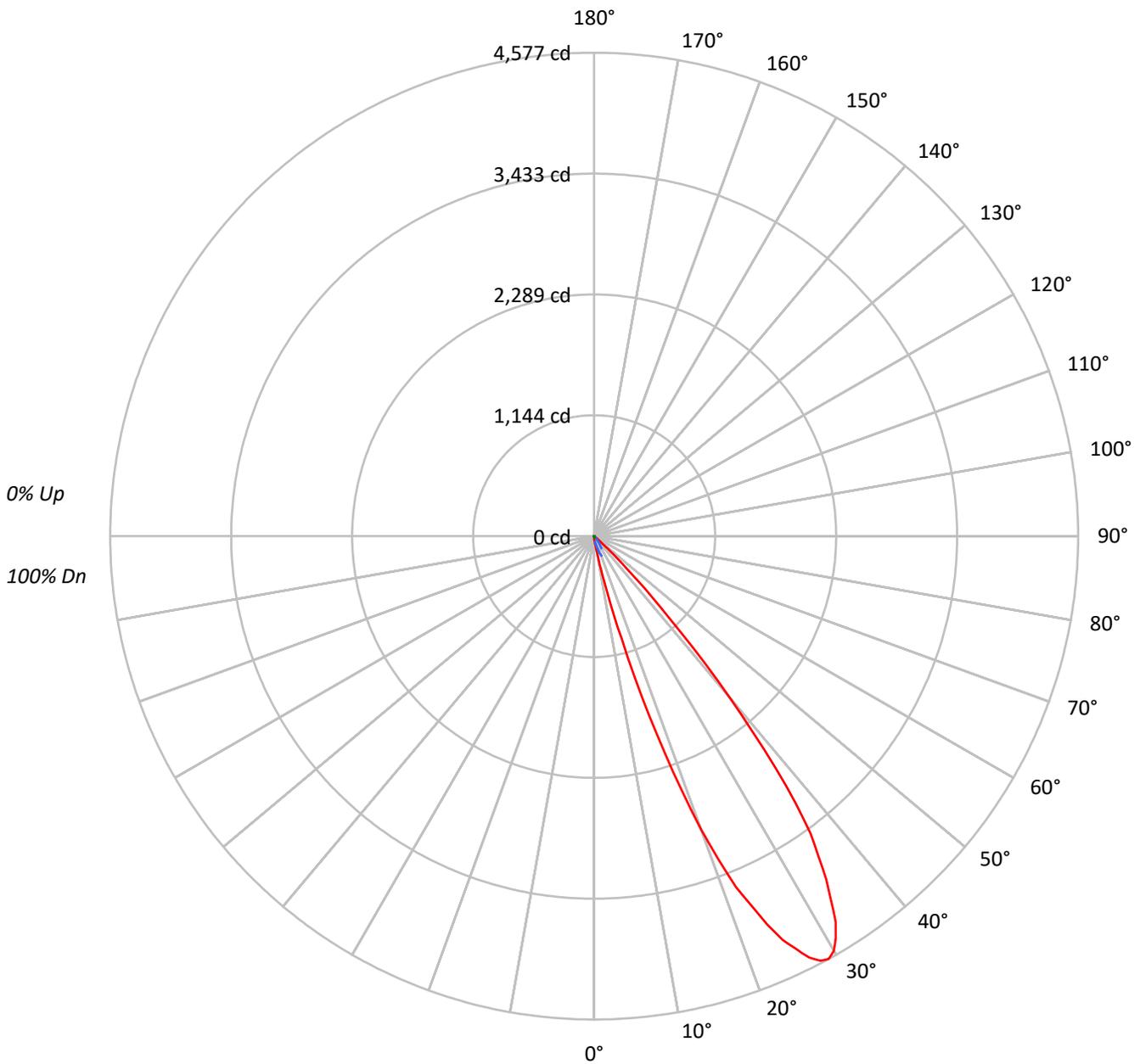
Lumens per Lamp: N/A
Luminaire Lumens: 642.0 lumens
Efficiency: N/A
Efficacy: 71.3 lumens/watt
Spacing Criteria (0/90/45): 2.3 / 0.53 / 1.19
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 9
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: P1325933

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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 | 100 | | | | 100 |
| 1 | 113 | 109 | 107 | 104 | 110 | 107 | 105 | 102 | 103 | 101 | 99 | 99 | 98 | 96 | 96 | 95 | 93 | 92 | | | | 92 |
| 2 | 106 | 100 | 96 | 92 | 104 | 99 | 94 | 91 | 95 | 92 | 89 | 92 | 89 | 87 | 89 | 87 | 85 | 83 | | | | 83 |
| 3 | 99 | 92 | 86 | 81 | 97 | 90 | 85 | 81 | 88 | 83 | 79 | 85 | 81 | 78 | 83 | 80 | 77 | 75 | | | | 75 |
| 4 | 93 | 84 | 78 | 73 | 91 | 83 | 77 | 72 | 81 | 76 | 71 | 79 | 74 | 71 | 77 | 73 | 70 | 68 | | | | 68 |
| 5 | 87 | 77 | 70 | 65 | 85 | 76 | 70 | 65 | 74 | 69 | 64 | 72 | 68 | 64 | 71 | 67 | 63 | 61 | | | | 61 |
| 6 | 81 | 71 | 64 | 59 | 80 | 70 | 63 | 58 | 68 | 62 | 58 | 67 | 62 | 58 | 65 | 61 | 57 | 55 | | | | 55 |
| 7 | 76 | 65 | 58 | 53 | 74 | 64 | 57 | 53 | 63 | 57 | 52 | 62 | 56 | 52 | 60 | 55 | 52 | 50 | | | | 50 |
| 8 | 71 | 60 | 53 | 48 | 70 | 59 | 52 | 48 | 58 | 52 | 47 | 57 | 51 | 47 | 56 | 51 | 47 | 45 | | | | 45 |
| 9 | 66 | 55 | 48 | 43 | 65 | 54 | 48 | 43 | 53 | 47 | 43 | 52 | 47 | 43 | 51 | 46 | 43 | 41 | | | | 41 |
| 10 | 62 | 51 | 44 | 39 | 61 | 50 | 44 | 39 | 49 | 43 | 39 | 48 | 43 | 39 | 48 | 42 | 39 | 37 | | | | 37 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° | 135° | 180° |
|-----|--------|-------|------|------|------|
| 0° | 3806 | 3806 | 3806 | 3806 | 3806 |
| 5° | 8765 | 6552 | 3630 | 2213 | 1919 |
| 10° | 27596 | 11402 | 2955 | 1224 | 909 |
| 15° | 178833 | 21075 | 2175 | 410 | 107 |
| 20° | 539710 | 36087 | 1503 | 0 | 0 |
| 25° | 801551 | 36409 | 893 | 0 | 0 |
| 30° | 901378 | 27682 | 338 | 0 | 0 |
| 35° | 777717 | 16525 | 252 | 0 | 0 |
| 40° | 447843 | 5621 | 0 | 0 | 0 |
| 45° | 109236 | 2265 | 146 | 0 | 146 |
| 50° | 13102 | 616 | 161 | 161 | 455 |
| 55° | 1742 | 0 | 360 | 360 | 691 |
| 60° | 207 | 0 | 586 | 586 | 999 |
| 65° | 245 | 245 | 937 | 937 | 1426 |
| 70° | 302 | 302 | 1158 | 1158 | 1460 |
| 75° | 0 | 399 | 1530 | 1131 | 1530 |
| 80° | 0 | 595 | 1686 | 1190 | 1686 |
| 85° | 0 | 1186 | 3359 | 1186 | 1186 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 2.5°
 Vertical Angle: 45°
 Luminance: 109943 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 3.0 | 0.5 |
| 10°-20° | 59.5 | 9.3 |
| 20°-30° | 259.3 | 40.4 |
| 30°-40° | 261.2 | 40.7 |
| 40°-50° | 52.4 | 8.2 |
| 50°-60° | 2.6 | 0.4 |
| 60°-70° | 1.7 | 0.3 |
| 70°-80° | 1.5 | 0.2 |
| 80°-90° | 0.8 | 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° | 321.8 | 50.1 |
| 0°-40° | 582.9 | 90.8 |
| 0°-60° | 638.0 | 99.4 |
| 0°-90° | 642.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 642.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|-----|-----|------|------|------|
| 0° | 22 | 22 | 22 | 22 | 22 | |
| 5° | 51 | 38 | 21 | 13 | 11 | 8 |
| 15° | 1003 | 118 | 12 | 2 | 1 | 393 |
| 25° | 4218 | 192 | 5 | 0 | 0 | 1902 |
| 35° | 3699 | 79 | 1 | 0 | 0 | 2201 |
| 45° | 448 | 9 | 1 | 0 | 1 | 488 |
| 55° | 6 | 0 | 1 | 1 | 2 | 11 |
| 65° | 1 | 1 | 2 | 2 | 4 | 1 |
| 75° | 0 | 1 | 2 | 2 | 2 | 0 |
| 85° | 0 | 1 | 2 | 1 | 1 | 0 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P1325933

CATALOG NUMBER: LDSQA3D09R20W2N902750DE010 3LSQCA30R 1MW_3000K

CANDELA DISTRIBUTION (FULL):

| | 0° | 2.5° | 5° | 7.5° | 10° | 12.5° | 15° | 17.5° | 20° | 22.5° | 45° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|
| 0° | 22.1 | 22.1 | 22.1 | 22.1 | 22.1 | 22.1 | 22.1 | 22.1 | 22.1 | 22.1 | 22.1 |
| 2.5° | 33.2 | 33.2 | 32.6 | 32.6 | 32.0 | 32.6 | 31.5 | 32.0 | 32.0 | 31.5 | 28.5 |
| 5° | 50.7 | 51.8 | 51.3 | 51.3 | 50.7 | 51.3 | 50.1 | 48.9 | 47.8 | 47.8 | 37.9 |
| 7.5° | 83.3 | 82.7 | 81.5 | 82.1 | 80.4 | 79.2 | 78.0 | 77.5 | 74.0 | 72.2 | 49.5 |
| 10° | 157.8 | 161.3 | 158.4 | 157.8 | 147.4 | 146.8 | 139.8 | 129.9 | 121.1 | 116.5 | 65.2 |
| 12.5° | 434.5 | 453.1 | 424.0 | 410.0 | 401.9 | 370.4 | 357.0 | 322.7 | 289.5 | 264.4 | 82.7 |
| 15° | 1003.0 | 1049.0 | 990.2 | 994.2 | 945.3 | 855.6 | 777.0 | 709.4 | 629.6 | 549.2 | 118.2 |
| 17.5° | 1965.2 | 1927.9 | 1895.9 | 1841.7 | 1742.1 | 1610.5 | 1441.0 | 1269.2 | 1120.6 | 965.1 | 164.8 |
| 20° | 2944.8 | 2911.6 | 2838.8 | 2720.6 | 2593.6 | 2398.5 | 2197.0 | 1939.0 | 1689.1 | 1455.0 | 196.9 |
| 21° | 3282.1 | 3271.0 | 3151.6 | 3078.8 | 2883.1 | 2696.7 | 2464.3 | 2188.3 | 1906.9 | 1629.7 | 202.1 |
| 22° | 3583.2 | 3516.8 | 3452.7 | 3345.0 | 3150.5 | 2947.8 | 2689.2 | 2398.5 | 2093.3 | 1785.2 | 202.7 |
| 23° | 3791.7 | 3761.4 | 3700.9 | 3579.1 | 3385.8 | 3147.5 | 2875.0 | 2570.9 | 2249.4 | 1895.3 | 200.9 |
| 24° | 4022.4 | 3983.9 | 3895.4 | 3753.3 | 3558.2 | 3322.9 | 3011.8 | 2710.1 | 2360.7 | 1987.9 | 196.3 |
| 25° | 4218.1 | 4158.1 | 4053.2 | 3900.1 | 3686.9 | 3444.0 | 3131.2 | 2799.8 | 2438.1 | 2050.2 | 191.6 |
| 26° | 4345.0 | 4312.4 | 4177.9 | 4011.3 | 3783.0 | 3532.5 | 3213.4 | 2868.5 | 2488.2 | 2078.8 | 184.1 |
| 27° | 4477.3 | 4417.3 | 4285.1 | 4093.4 | 3845.9 | 3590.2 | 3260.0 | 2901.7 | 2505.7 | 2079.9 | 174.7 |
| 28° | 4553.0 | 4487.7 | 4338.1 | 4136.5 | 3886.7 | 3622.2 | 3286.7 | 2912.2 | 2502.2 | 2061.9 | 163.7 |
| 29° | 4576.9 | 4494.7 | 4348.5 | 4143.5 | 3896.6 | 3624.6 | 3282.7 | 2897.1 | 2471.3 | 2017.6 | 150.9 |
| 30° | 4532.6 | 4448.7 | 4310.1 | 4110.3 | 3865.1 | 3595.4 | 3244.8 | 2847.0 | 2416.6 | 1954.1 | 139.2 |
| 31° | 4435.9 | 4364.9 | 4230.9 | 4030.5 | 3795.2 | 3527.3 | 3159.2 | 2764.9 | 2323.4 | 1869.1 | 125.8 |
| 32° | 4308.4 | 4238.5 | 4106.8 | 3925.7 | 3686.3 | 3416.0 | 3042.1 | 2636.7 | 2213.9 | 1742.1 | 112.4 |
| 33° | 4116.7 | 4076.5 | 3958.3 | 3785.3 | 3545.9 | 3257.0 | 2884.9 | 2483.6 | 2057.8 | 1601.1 | 100.8 |
| 34° | 3922.8 | 3872.1 | 3789.4 | 3600.1 | 3342.7 | 3054.3 | 2679.8 | 2272.1 | 1867.3 | 1443.3 | 89.7 |
| 35° | 3699.1 | 3668.8 | 3538.9 | 3387.5 | 3128.9 | 2834.2 | 2462.0 | 2066.5 | 1645.4 | 1267.4 | 78.6 |
| 36° | 3482.4 | 3435.8 | 3287.9 | 3127.7 | 2876.7 | 2558.1 | 2190.6 | 1819.0 | 1453.8 | 1102.6 | 67.0 |
| 37° | 3167.9 | 3096.9 | 2991.4 | 2822.5 | 2529.0 | 2257.6 | 1922.1 | 1577.3 | 1217.9 | 924.3 | 54.2 |
| 38° | 2798.1 | 2764.9 | 2618.7 | 2448.6 | 2205.7 | 1948.3 | 1616.3 | 1323.9 | 1004.7 | 771.7 | 41.4 |
| 39° | 2361.8 | 2361.2 | 2221.4 | 2098.6 | 1860.9 | 1629.1 | 1329.7 | 1074.6 | 829.4 | 621.5 | 32.0 |
| 40° | 1992.0 | 1923.2 | 1837.0 | 1682.7 | 1500.4 | 1303.5 | 1041.4 | 841.1 | 643.6 | 500.9 | 25.0 |
| 42.5° | 1044.3 | 1038.5 | 987.8 | 871.9 | 770.0 | 654.1 | 520.1 | 433.3 | 339.0 | 276.1 | 15.7 |
| 45° | 448.5 | 451.4 | 416.4 | 399.0 | 359.4 | 311.0 | 262.7 | 219.0 | 187.5 | 152.0 | 9.3 |
| 47.5° | 113.6 | 108.9 | 107.8 | 111.8 | 111.8 | 108.3 | 97.3 | 91.4 | 84.5 | 77.5 | 5.2 |
| 50° | 48.9 | 47.8 | 46.6 | 46.6 | 43.7 | 41.9 | 39.0 | 35.5 | 32.6 | 29.1 | 2.3 |
| 52.5° | 18.1 | 18.6 | 19.2 | 18.6 | 18.6 | 18.1 | 18.1 | 17.5 | 15.7 | 14.0 | 1.2 |
| 55° | 5.8 | 5.8 | 5.8 | 6.4 | 6.4 | 7.0 | 7.0 | 7.0 | 7.0 | 6.4 | 0.0 |
| 57.5° | 1.2 | 1.2 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 2.3 | 2.3 | 0.0 |
| 60° | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.0 | 0.0 | 0.0 | 0.0 |
| 62.5° | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 |
| 65° | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 |
| 67.5° | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 |
| 70° | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 |
| 72.5° | 0.6 | 0.0 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 |
| 75° | 0.0 | 0.0 | 0.0 | 0.6 | 0.0 | 0.6 | 0.6 | 0.0 | 0.6 | 0.6 | 0.6 |
| 77.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.6 | 0.6 |
| 80° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.6 |



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CANDELA DISTRIBUTION (continued):

| | 0° | 2.5° | 5° | 7.5° | 10° | 12.5° | 15° | 17.5° | 20° | 22.5° | 45° |
|-------|-----|------|-----|------|-----|-------|-----|-------|-----|-------|-----|
| 82.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.6 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.6 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.6 |
| 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: LDSQA3D09R20W2N902750DE010 3LSQCA30R 1MW_3000K

CANDELA DISTRIBUTION (continued):

| | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° |
|-------|-------|------|--------|------|--------|------|
| 0° | 22.1 | 22.1 | 22.1 | 22.1 | 22.1 | 22.1 |
| 2.5° | 25.6 | 22.7 | 19.2 | 16.3 | 15.7 | 15.1 |
| 5° | 28.5 | 21.0 | 15.7 | 12.8 | 11.6 | 11.1 |
| 7.5° | 30.9 | 19.2 | 12.8 | 9.3 | 8.2 | 7.6 |
| 10° | 32.0 | 16.9 | 10.5 | 7.0 | 5.2 | 5.2 |
| 12.5° | 32.6 | 14.6 | 7.6 | 4.7 | 2.9 | 2.9 |
| 15° | 32.0 | 12.2 | 5.8 | 2.3 | 0.6 | 0.6 |
| 17.5° | 29.1 | 9.9 | 3.5 | 0.6 | 0.0 | 0.0 |
| 20° | 25.0 | 8.2 | 2.3 | 0.0 | 0.0 | 0.0 |
| 21° | 23.9 | 7.0 | 1.7 | 0.0 | 0.0 | 0.0 |
| 22° | 22.1 | 6.4 | 1.2 | 0.0 | 0.0 | 0.0 |
| 23° | 20.4 | 5.8 | 1.2 | 0.0 | 0.0 | 0.0 |
| 24° | 18.6 | 5.2 | 0.6 | 0.0 | 0.0 | 0.0 |
| 25° | 17.5 | 4.7 | 0.6 | 0.0 | 0.0 | 0.0 |
| 26° | 16.3 | 4.1 | 0.6 | 0.0 | 0.0 | 0.0 |
| 27° | 14.6 | 3.5 | 0.0 | 0.0 | 0.0 | 0.0 |
| 28° | 13.4 | 2.9 | 0.0 | 0.0 | 0.0 | 0.0 |
| 29° | 11.6 | 2.3 | 0.0 | 0.0 | 0.0 | 0.0 |
| 30° | 9.9 | 1.7 | 0.0 | 0.0 | 0.0 | 0.0 |
| 31° | 8.2 | 1.7 | 0.0 | 0.0 | 0.0 | 0.0 |
| 32° | 7.0 | 1.2 | 0.0 | 0.0 | 0.0 | 0.0 |
| 33° | 5.8 | 1.2 | 0.0 | 0.0 | 0.0 | 0.0 |
| 34° | 5.2 | 1.2 | 0.0 | 0.0 | 0.0 | 0.0 |
| 35° | 4.7 | 1.2 | 0.0 | 0.0 | 0.0 | 0.0 |
| 36° | 3.5 | 0.6 | 0.0 | 0.0 | 0.0 | 0.0 |
| 37° | 2.9 | 0.6 | 0.0 | 0.0 | 0.0 | 0.0 |
| 38° | 2.3 | 0.6 | 0.0 | 0.0 | 0.0 | 0.0 |
| 39° | 1.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 40° | 1.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 42.5° | 0.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 45° | 0.0 | 0.6 | 0.0 | 0.0 | 0.6 | 0.6 |
| 47.5° | 0.0 | 0.6 | 0.0 | 0.0 | 0.6 | 1.2 |
| 50° | 0.0 | 0.6 | 0.6 | 0.6 | 1.2 | 1.7 |
| 52.5° | 0.0 | 1.2 | 0.6 | 0.6 | 1.7 | 1.7 |
| 55° | 0.6 | 1.2 | 0.6 | 1.2 | 2.3 | 2.3 |
| 57.5° | 0.6 | 1.2 | 1.2 | 1.7 | 2.3 | 2.9 |
| 60° | 1.2 | 1.7 | 1.7 | 1.7 | 2.9 | 2.9 |
| 62.5° | 1.2 | 1.7 | 2.3 | 2.3 | 2.9 | 3.5 |
| 65° | 1.2 | 2.3 | 2.3 | 2.3 | 2.9 | 3.5 |
| 67.5° | 1.7 | 2.3 | 2.3 | 2.3 | 2.9 | 3.5 |
| 70° | 1.7 | 2.3 | 2.3 | 2.3 | 2.9 | 2.9 |
| 72.5° | 1.7 | 2.3 | 1.7 | 2.3 | 2.3 | 2.9 |
| 75° | 1.7 | 2.3 | 1.7 | 1.7 | 2.3 | 2.3 |
| 77.5° | 1.2 | 1.7 | 1.7 | 1.2 | 1.7 | 1.7 |
| 80° | 1.2 | 1.7 | 1.2 | 1.2 | 1.7 | 1.7 |



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CANDELA DISTRIBUTION (continued):

| | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° |
|-------|-------|-----|--------|------|--------|------|
| 82.5° | 1.2 | 1.7 | 1.2 | 0.6 | 1.2 | 1.2 |
| 85° | 1.2 | 1.7 | 1.2 | 0.6 | 0.6 | 0.6 |
| 87.5° | 1.2 | 1.7 | 1.2 | 0.6 | 0.0 | 0.6 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)