

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: P1312383

Luminaire Tested: LDSQA3D09R309050DE010 3LSQCA30R 1MB

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1312383  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-50)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D09R309050DE010 3LSQCA30R 1MB  
Description: 3in Adjustable LED luminaire with, R30 optic, 5000K CCT AND, 90CRI , 3LSQCA30R 1MB TRIM  
Light Source: -  
Ballast/Driver: -

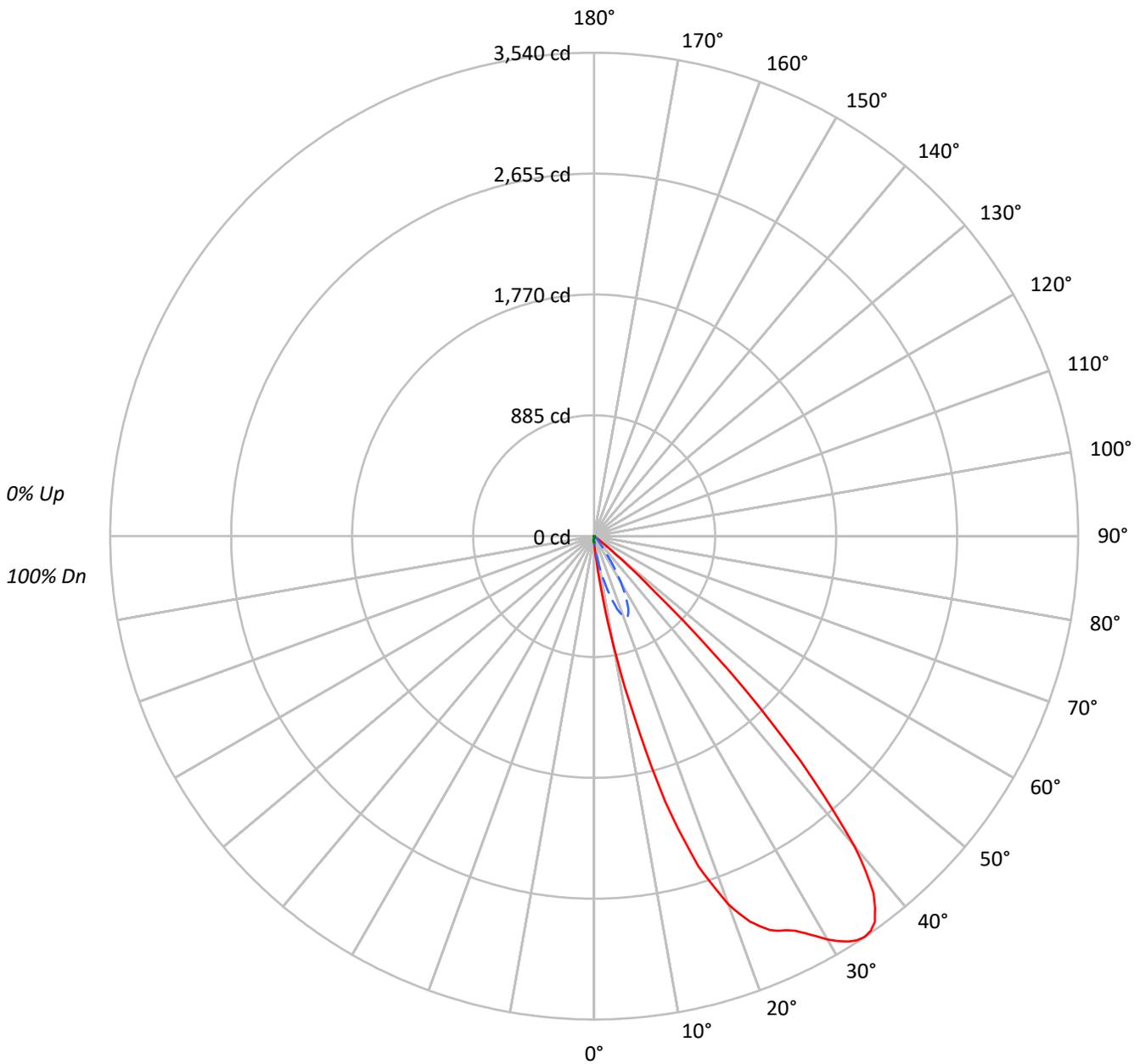
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 852.0 lumens  
Efficiency: N/A  
Efficacy: 76.8 lumens/watt  
Spacing Criteria (0/90/45): 2.41 / 0.46 / 1.22  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 11.1  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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 | 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 | 98  | 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  | 75  | 71  | 78  | 74  | 70  | 76  | 73  | 69  | 68  |    |    |    | 68  |
| 5   | 87  | 77  | 70  | 65  | 85  | 76  | 70  | 65  | 74  | 68  | 64  | 72  | 67  | 63  | 71  | 66  | 63  | 61  |    |    |    | 61  |
| 6   | 81  | 71  | 64  | 58  | 80  | 70  | 63  | 58  | 68  | 62  | 58  | 67  | 61  | 57  | 65  | 61  | 57  | 55  |    |    |    | 55  |
| 7   | 76  | 65  | 58  | 53  | 74  | 64  | 57  | 53  | 63  | 57  | 52  | 61  | 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  | 43  | 39  | 37  |    |    |    | 37  |

**AVERAGE LUMINANCE (cd/sqm):**

|     | 0°     | 45°    | 90°  | 135° | 180° |
|-----|--------|--------|------|------|------|
| 0°  | 7853   | 7853   | 7853 | 7853 | 7853 |
| 5°  | 28473  | 17686  | 7192 | 2904 | 2075 |
| 10° | 140953 | 42373  | 5596 | 560  | 0    |
| 15° | 359538 | 80680  | 3566 | 0    | 0    |
| 20° | 525341 | 114749 | 1466 | 0    | 0    |
| 25° | 606071 | 112591 | 304  | 0    | 0    |
| 30° | 678311 | 77279  | 0    | 0    | 0    |
| 35° | 741829 | 33282  | 0    | 0    | 0    |
| 40° | 665829 | 12950  | 0    | 0    | 0    |
| 45° | 340009 | 5261   | 0    | 0    | 0    |
| 50° | 52488  | 643    | 0    | 0    | 0    |
| 55° | 3123   | 0      | 240  | 0    | 0    |
| 60° | 0      | 0      | 276  | 0    | 0    |
| 65° | 0      | 0      | 652  | 0    | 0    |
| 70° | 0      | 403    | 806  | 0    | 0    |
| 75° | 0      | 532    | 1597 | 0    | 0    |
| 80° | 0      | 793    | 2380 | 0    | 0    |
| 85° | 0      | 1581   | 4742 | 0    | 0    |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 340009 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 9.5    | 1.1       |
| 10°-20°   | 113.5  | 13.3      |
| 20°-30°   | 280.5  | 32.9      |
| 30°-40°   | 322.6  | 37.9      |
| 40°-50°   | 119.7  | 14.0      |
| 50°-60°   | 4.4    | 0.5       |
| 60°-70°   | 0.4    | 0.0       |
| 70°-80°   | 0.7    | 0.1       |
| 80°-90°   | 0.7    | 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°    | 403.6  | 47.4      |
| 0°-40°    | 726.2  | 85.2      |
| 0°-60°    | 850.2  | 99.8      |
| 0°-90°    | 852.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 852.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45° | 90° | 135° | 180° | Flux |
|-----|------|-----|-----|------|------|------|
| 0°  | 46   | 46  | 46  | 46   | 46   |      |
| 5°  | 165  | 102 | 42  | 17   | 12   | 36   |
| 15° | 2016 | 452 | 20  | 0    | 0    | 580  |
| 25° | 3189 | 592 | 2   | 0    | 0    | 1474 |
| 35° | 3528 | 158 | 0   | 0    | 0    | 2139 |
| 45° | 1396 | 22  | 0   | 0    | 0    | 1087 |
| 55° | 10   | 0   | 1   | 0    | 0    | 36   |
| 65° | 0    | 0   | 2   | 0    | 0    | 0    |
| 75° | 0    | 1   | 2   | 0    | 0    | 0    |
| 85° | 0    | 1   | 2   | 0    | 0    | 0    |
| 90° | 0    | 0   | 0   | 0    | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 45°   | 67.5° | 90°  | 112.5° |
|-------|--------|--------|--------|--------|--------|--------|--------|-------|-------|------|--------|
| 0°    | 45.6   | 45.6   | 45.6   | 45.6   | 45.6   | 45.6   | 45.6   | 45.6  | 45.6  | 45.6 | 45.6   |
| 2.5°  | 80.8   | 81.6   | 81.6   | 79.2   | 78.4   | 77.6   | 75.2   | 68.0  | 56.8  | 45.6 | 36.8   |
| 5°    | 164.7  | 165.5  | 165.5  | 160.7  | 151.1  | 141.5  | 133.5  | 102.3 | 65.6  | 41.6 | 27.2   |
| 7.5°  | 388.6  | 389.4  | 372.6  | 353.4  | 315.0  | 295.0  | 258.3  | 157.5 | 74.4  | 37.6 | 17.6   |
| 10°   | 806.0  | 788.4  | 744.4  | 688.4  | 629.3  | 552.5  | 474.9  | 242.3 | 80.8  | 32.0 | 11.2   |
| 12.5° | 1347.3 | 1330.5 | 1273.7 | 1193.7 | 1077.8 | 927.5  | 780.4  | 340.6 | 81.6  | 25.6 | 6.4    |
| 15°   | 2016.5 | 1969.3 | 1901.3 | 1768.6 | 1597.5 | 1364.8 | 1121.8 | 452.5 | 78.4  | 20.0 | 1.6    |
| 17.5° | 2535.4 | 2492.2 | 2405.9 | 2250.7 | 2038.1 | 1779.8 | 1481.6 | 558.9 | 69.6  | 12.8 | 0.0    |
| 20°   | 2866.4 | 2820.8 | 2740.1 | 2603.4 | 2377.1 | 2074.0 | 1732.6 | 626.1 | 57.6  | 8.0  | 0.0    |
| 21°   | 2960.8 | 2916.8 | 2837.6 | 2701.7 | 2476.2 | 2174.0 | 1794.2 | 640.4 | 52.0  | 6.4  | 0.0    |
| 22°   | 3043.9 | 3009.5 | 2936.0 | 2788.1 | 2558.6 | 2247.6 | 1856.6 | 642.0 | 48.0  | 4.8  | 0.0    |
| 23°   | 3102.3 | 3077.5 | 3003.9 | 2868.0 | 2639.3 | 2307.5 | 1890.1 | 632.4 | 43.2  | 3.2  | 0.0    |
| 24°   | 3158.2 | 3127.9 | 3064.7 | 2938.4 | 2703.3 | 2357.9 | 1920.5 | 614.9 | 38.4  | 2.4  | 0.0    |
| 25°   | 3189.4 | 3154.2 | 3105.5 | 2987.1 | 2756.1 | 2389.9 | 1938.9 | 592.5 | 33.6  | 1.6  | 0.0    |
| 26°   | 3211.0 | 3183.8 | 3130.3 | 3015.9 | 2778.5 | 2410.7 | 1941.3 | 559.7 | 30.4  | 0.8  | 0.0    |
| 27°   | 3243.8 | 3216.6 | 3164.6 | 3041.5 | 2788.1 | 2407.5 | 1926.9 | 522.1 | 26.4  | 0.0  | 0.0    |
| 28°   | 3293.4 | 3257.4 | 3205.4 | 3068.7 | 2792.0 | 2393.9 | 1894.9 | 481.3 | 22.4  | 0.0  | 0.0    |
| 29°   | 3350.1 | 3313.4 | 3256.6 | 3104.7 | 2792.8 | 2366.7 | 1844.6 | 436.6 | 20.0  | 0.0  | 0.0    |
| 30°   | 3410.9 | 3378.9 | 3321.4 | 3139.9 | 2801.6 | 2331.5 | 1786.2 | 388.6 | 16.0  | 0.0  | 0.0    |
| 31°   | 3458.9 | 3430.1 | 3368.5 | 3171.8 | 2808.8 | 2301.1 | 1714.2 | 340.6 | 13.6  | 0.0  | 0.0    |
| 32°   | 3500.5 | 3474.9 | 3398.9 | 3179.0 | 2794.4 | 2257.9 | 1637.5 | 294.2 | 11.2  | 0.0  | 0.0    |
| 33°   | 3529.2 | 3497.3 | 3408.5 | 3160.6 | 2752.9 | 2186.8 | 1551.9 | 250.3 | 8.8   | 0.0  | 0.0    |
| 34°   | 3539.6 | 3501.3 | 3394.1 | 3112.7 | 2668.9 | 2078.8 | 1440.8 | 204.7 | 7.2   | 0.0  | 0.0    |
| 35°   | 3528.4 | 3481.3 | 3342.1 | 3030.3 | 2555.4 | 1950.1 | 1307.3 | 158.3 | 5.6   | 0.0  | 0.0    |
| 36°   | 3492.5 | 3432.5 | 3267.8 | 2912.8 | 2393.1 | 1798.2 | 1173.7 | 123.1 | 4.0   | 0.0  | 0.0    |
| 37°   | 3414.9 | 3348.5 | 3140.7 | 2757.7 | 2232.4 | 1623.9 | 1021.8 | 95.9  | 2.4   | 0.0  | 0.0    |
| 38°   | 3319.8 | 3223.8 | 2971.1 | 2561.8 | 2024.5 | 1428.0 | 871.5  | 79.2  | 1.6   | 0.0  | 0.0    |
| 39°   | 3157.4 | 3051.9 | 2769.7 | 2336.3 | 1820.6 | 1241.7 | 725.2  | 68.8  | 0.8   | 0.0  | 0.0    |
| 40°   | 2961.6 | 2836.0 | 2539.4 | 2094.8 | 1579.9 | 1046.6 | 605.3  | 57.6  | 0.8   | 0.0  | 0.0    |
| 42.5° | 2234.0 | 2127.6 | 1808.6 | 1424.8 | 965.9  | 617.3  | 335.8  | 37.6  | 0.0   | 0.0  | 0.0    |
| 45°   | 1396.0 | 1284.9 | 1069.0 | 781.2  | 522.9  | 319.8  | 161.5  | 21.6  | 0.0   | 0.0  | 0.0    |
| 47.5° | 570.1  | 522.9  | 430.2  | 331.0  | 236.7  | 150.3  | 67.2   | 9.6   | 0.0   | 0.0  | 0.0    |
| 50°   | 195.9  | 174.3  | 146.3  | 107.1  | 76.0   | 52.0   | 35.2   | 2.4   | 0.0   | 0.0  | 0.0    |
| 52.5° | 56.8   | 57.6   | 50.4   | 43.2   | 33.6   | 24.0   | 17.6   | 0.0   | 0.0   | 0.0  | 0.0    |
| 55°   | 10.4   | 8.8    | 10.4   | 9.6    | 10.4   | 8.8    | 6.4    | 0.0   | 0.0   | 0.8  | 0.0    |
| 57.5° | 0.0    | 0.0    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.0   | 0.8   | 0.8  | 0.0    |
| 60°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.8   | 0.8  | 0.0    |
| 62.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.8   | 1.6  | 0.0    |
| 65°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.8   | 1.6  | 0.8    |
| 67.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.8   | 1.6   | 1.6  | 0.8    |
| 70°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.8   | 1.6   | 1.6  | 0.8    |
| 72.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.8   | 1.6   | 2.4  | 0.8    |
| 75°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.8   | 1.6   | 2.4  | 0.8    |
| 77.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.8   | 1.6   | 2.4  | 0.8    |
| 80°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.8   | 1.6   | 2.4  | 0.8    |



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**CANDELA DISTRIBUTION (continued):**

|       | 0°  | 5°  | 10° | 15° | 20° | 25° | 30° | 45° | 67.5° | 90° | 112.5° |
|-------|-----|-----|-----|-----|-----|-----|-----|-----|-------|-----|--------|
| 82.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.8 | 1.6   | 2.4 | 0.8    |
| 85°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.8 | 1.6   | 2.4 | 0.8    |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.8 | 1.6   | 2.4 | 0.8    |
| 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):**

|       | 135° | 157.5° | 180° |
|-------|------|--------|------|
| 0°    | 45.6 | 45.6   | 45.6 |
| 2.5°  | 29.6 | 26.4   | 24.8 |
| 5°    | 16.8 | 12.8   | 12.0 |
| 7.5°  | 8.8  | 5.6    | 4.8  |
| 10°   | 3.2  | 0.8    | 0.0  |
| 12.5° | 0.0  | 0.0    | 0.0  |
| 15°   | 0.0  | 0.0    | 0.0  |
| 17.5° | 0.0  | 0.0    | 0.0  |
| 20°   | 0.0  | 0.0    | 0.0  |
| 21°   | 0.0  | 0.0    | 0.0  |
| 22°   | 0.0  | 0.0    | 0.0  |
| 23°   | 0.0  | 0.0    | 0.0  |
| 24°   | 0.0  | 0.0    | 0.0  |
| 25°   | 0.0  | 0.0    | 0.0  |
| 26°   | 0.0  | 0.0    | 0.0  |
| 27°   | 0.0  | 0.0    | 0.0  |
| 28°   | 0.0  | 0.0    | 0.0  |
| 29°   | 0.0  | 0.0    | 0.0  |
| 30°   | 0.0  | 0.0    | 0.0  |
| 31°   | 0.0  | 0.0    | 0.0  |
| 32°   | 0.0  | 0.0    | 0.0  |
| 33°   | 0.0  | 0.0    | 0.0  |
| 34°   | 0.0  | 0.0    | 0.0  |
| 35°   | 0.0  | 0.0    | 0.0  |
| 36°   | 0.0  | 0.0    | 0.0  |
| 37°   | 0.0  | 0.0    | 0.0  |
| 38°   | 0.0  | 0.0    | 0.0  |
| 39°   | 0.0  | 0.0    | 0.0  |
| 40°   | 0.0  | 0.0    | 0.0  |
| 42.5° | 0.0  | 0.0    | 0.0  |
| 45°   | 0.0  | 0.0    | 0.0  |
| 47.5° | 0.0  | 0.0    | 0.0  |
| 50°   | 0.0  | 0.0    | 0.0  |
| 52.5° | 0.0  | 0.0    | 0.0  |
| 55°   | 0.0  | 0.0    | 0.0  |
| 57.5° | 0.0  | 0.0    | 0.0  |
| 60°   | 0.0  | 0.0    | 0.0  |
| 62.5° | 0.0  | 0.0    | 0.0  |
| 65°   | 0.0  | 0.0    | 0.0  |
| 67.5° | 0.0  | 0.0    | 0.0  |
| 70°   | 0.0  | 0.0    | 0.0  |
| 72.5° | 0.0  | 0.0    | 0.0  |
| 75°   | 0.0  | 0.0    | 0.0  |
| 77.5° | 0.0  | 0.0    | 0.0  |
| 80°   | 0.0  | 0.0    | 0.0  |



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**CANDELA DISTRIBUTION (continued):**

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

(END OF REPORT)