

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: P1320100

Luminaire Tested: LDSQA3D13R309840DE010 3LSQCA30R 1MB

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1320100  
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: LDSQA3D13R309840DE010 3LSQCA30R 1MB  
Description: 3in Adjustable LED luminaire with, R30 optic, 4000K CCT AND, 98CRI , 3LSQCA30R 1MB TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

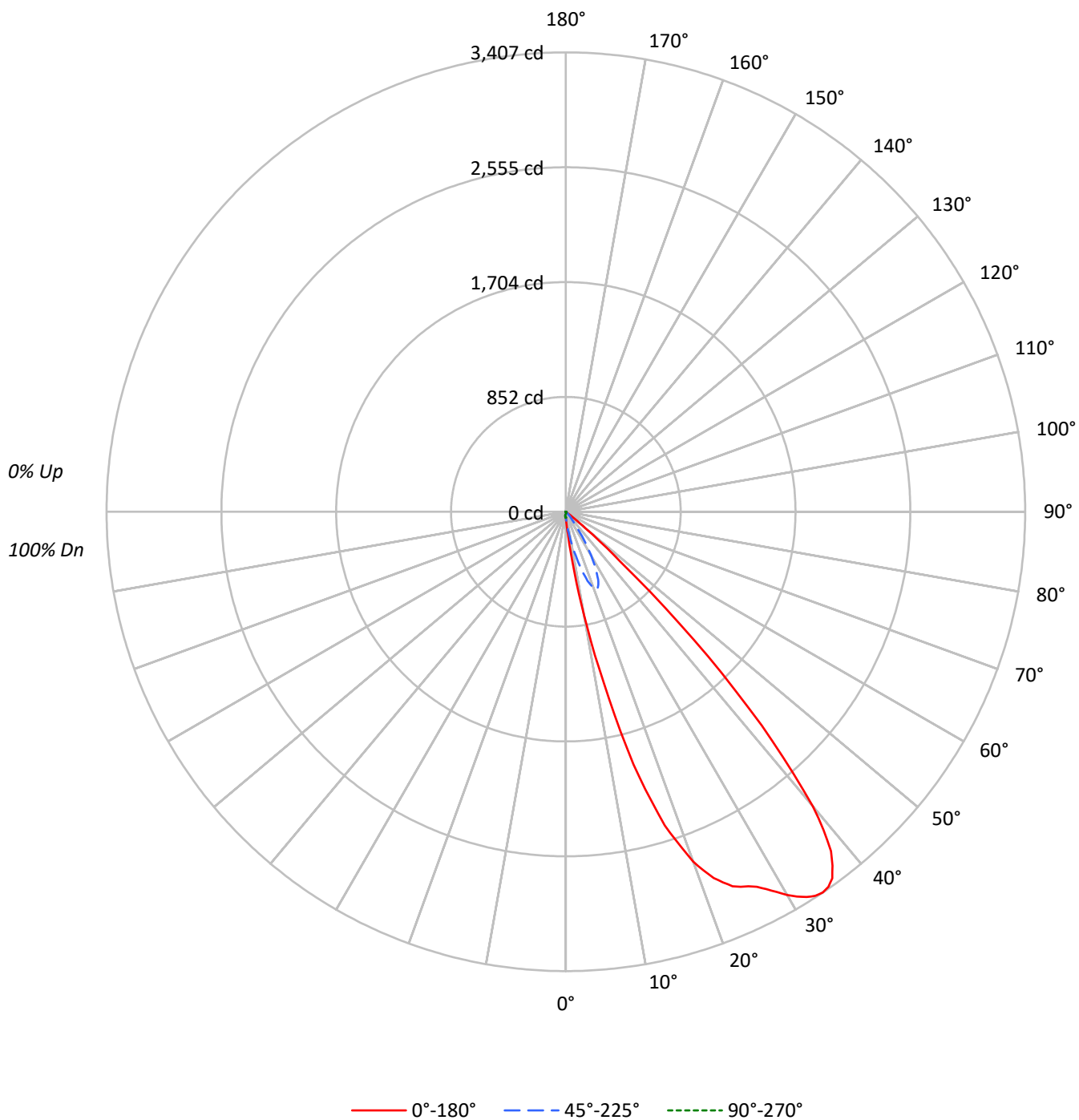
Lumens per Lamp: N/A  
Luminaire Lumens: 820.0 lumens  
Efficiency: N/A  
Efficacy: 56.6 lumens/watt  
Spacing Criteria (0/90/45): 2.41 / 0.46 / 1.21  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 14.5  
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

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### Luminous Intensity Polar Plot



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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|
| RF  | 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 |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |    |    |
| 1   | 113 | 109 | 107 | 104 | 110 | 107 | 105 | 102 | 103 | 101 | 99  | 99  | 98  | 96  | 96  | 95  | 93  | 92  |    |    |
| 2   | 106 | 100 | 96  | 92  | 104 | 98  | 94  | 91  | 95  | 92  | 89  | 92  | 89  | 87  | 89  | 87  | 85  | 83  |    |    |
| 3   | 99  | 92  | 86  | 81  | 97  | 90  | 85  | 81  | 88  | 83  | 79  | 85  | 81  | 78  | 83  | 80  | 77  | 75  |    |    |
| 4   | 93  | 84  | 78  | 73  | 91  | 83  | 77  | 72  | 81  | 75  | 71  | 78  | 74  | 70  | 76  | 73  | 69  | 68  |    |    |
| 5   | 87  | 77  | 70  | 65  | 85  | 76  | 70  | 65  | 74  | 68  | 64  | 72  | 67  | 63  | 71  | 66  | 63  | 61  |    |    |
| 6   | 81  | 71  | 64  | 58  | 80  | 70  | 63  | 58  | 68  | 62  | 58  | 67  | 61  | 57  | 65  | 61  | 57  | 55  |    |    |
| 7   | 76  | 65  | 58  | 53  | 74  | 64  | 57  | 53  | 63  | 57  | 52  | 61  | 56  | 52  | 60  | 55  | 52  | 50  |    |    |
| 8   | 71  | 60  | 53  | 48  | 70  | 59  | 52  | 48  | 58  | 52  | 47  | 57  | 51  | 47  | 56  | 51  | 47  | 45  |    |    |
| 9   | 66  | 55  | 48  | 43  | 65  | 54  | 48  | 43  | 53  | 47  | 43  | 52  | 47  | 43  | 51  | 46  | 43  | 41  |    |    |
| 10  | 62  | 51  | 44  | 39  | 61  | 50  | 44  | 39  | 49  | 43  | 39  | 48  | 43  | 39  | 48  | 43  | 39  | 37  |    |    |

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

|     | 0°     | 45°    | 90°  | 135° | 180° |
|-----|--------|--------|------|------|------|
| 0°  | 7561   | 7561   | 7561 | 7561 | 7561 |
| 5°  | 27402  | 17029  | 6915 | 2801 | 1988 |
| 10° | 135654 | 40782  | 5386 | 542  | 0    |
| 15° | 346023 | 77667  | 3423 | 0    | 0    |
| 20° | 505602 | 110423 | 1411 | 0    | 0    |
| 25° | 583306 | 108353 | 285  | 0    | 0    |
| 30° | 652836 | 74376  | 0    | 0    | 0    |
| 35° | 713971 | 32041  | 0    | 0    | 0    |
| 40° | 640806 | 12455  | 0    | 0    | 0    |
| 45° | 327247 | 5066   | 0    | 0    | 0    |
| 50° | 50505  | 616    | 0    | 0    | 0    |
| 55° | 3003   | 0      | 240  | 0    | 0    |
| 60° | 0      | 0      | 276  | 0    | 0    |
| 65° | 0      | 0      | 611  | 0    | 0    |
| 70° | 0      | 403    | 755  | 0    | 0    |
| 75° | 0      | 532    | 1530 | 0    | 0    |
| 80° | 0      | 793    | 2281 | 0    | 0    |
| 85° | 0      | 1581   | 4545 | 0    | 0    |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 327247 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 9.2    | 1.1       |
| 10°-20°   | 109.3  | 13.3      |
| 20°-30°   | 270.0  | 32.9      |
| 30°-40°   | 310.5  | 37.9      |
| 40°-50°   | 115.2  | 14.0      |
| 50°-60°   | 4.2    | 0.5       |
| 60°-70°   | 0.4    | 0.0       |
| 70°-80°   | 0.7    | 0.1       |
| 80°-90°   | 0.6    | 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°    | 388.4  | 47.4      |
| 0°-40°    | 698.9  | 85.2      |
| 0°-60°    | 818.3  | 99.8      |
| 0°-90°    | 820.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 820.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45° | 90° | 135° | 180° | Flux |
|-----|------|-----|-----|------|------|------|
| 0°  | 44   | 44  | 44  | 44   | 44   |      |
| 5°  | 158  | 98  | 40  | 16   | 12   | 34   |
| 15° | 1941 | 436 | 19  | 0    | 0    | 558  |
| 25° | 3070 | 570 | 2   | 0    | 0    | 1418 |
| 35° | 3396 | 152 | 0   | 0    | 0    | 2059 |
| 45° | 1344 | 21  | 0   | 0    | 0    | 1046 |
| 55° | 10   | 0   | 1   | 0    | 0    | 34   |
| 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°    | 43.9   | 43.9   | 43.9   | 43.9   | 43.9   | 43.9   | 43.9   | 43.9  | 43.9  | 43.9 | 43.9   |
| 2.5°  | 77.7   | 78.5   | 78.5   | 76.2   | 75.4   | 74.6   | 72.3   | 65.4  | 54.6  | 43.9 | 35.4   |
| 5°    | 158.5  | 159.3  | 159.3  | 154.7  | 145.4  | 136.2  | 128.5  | 98.5  | 63.1  | 40.0 | 26.2   |
| 7.5°  | 374.0  | 374.8  | 358.6  | 340.1  | 303.2  | 284.0  | 248.6  | 151.6 | 71.6  | 36.2 | 16.9   |
| 10°   | 775.7  | 758.8  | 716.4  | 662.6  | 605.6  | 531.7  | 457.1  | 233.2 | 77.7  | 30.8 | 10.8   |
| 12.5° | 1296.7 | 1280.5 | 1225.9 | 1148.9 | 1037.3 | 892.6  | 751.1  | 327.8 | 78.5  | 24.6 | 6.2    |
| 15°   | 1940.7 | 1895.3 | 1829.9 | 1702.2 | 1537.5 | 1313.6 | 1079.6 | 435.6 | 75.4  | 19.2 | 1.5    |
| 17.5° | 2440.2 | 2398.6 | 2315.5 | 2166.2 | 1961.5 | 1713.0 | 1425.9 | 537.9 | 66.9  | 12.3 | 0.0    |
| 20°   | 2758.7 | 2714.9 | 2637.2 | 2505.6 | 2287.8 | 1996.1 | 1667.6 | 602.5 | 55.4  | 7.7  | 0.0    |
| 21°   | 2849.6 | 2807.2 | 2731.0 | 2600.2 | 2383.2 | 2092.3 | 1726.8 | 616.4 | 50.0  | 6.2  | 0.0    |
| 22°   | 2929.6 | 2896.5 | 2825.7 | 2683.3 | 2462.5 | 2163.1 | 1786.8 | 617.9 | 46.2  | 4.6  | 0.0    |
| 23°   | 2985.8 | 2961.9 | 2891.1 | 2760.3 | 2540.2 | 2220.8 | 1819.2 | 608.7 | 41.6  | 3.1  | 0.0    |
| 24°   | 3039.6 | 3010.4 | 2949.6 | 2828.0 | 2601.8 | 2269.3 | 1848.4 | 591.8 | 36.9  | 2.3  | 0.0    |
| 25°   | 3069.6 | 3035.8 | 2988.8 | 2874.9 | 2652.6 | 2300.1 | 1866.1 | 570.2 | 32.3  | 1.5  | 0.0    |
| 26°   | 3090.4 | 3064.2 | 3012.7 | 2902.6 | 2674.1 | 2320.1 | 1868.4 | 538.7 | 29.2  | 0.8  | 0.0    |
| 27°   | 3122.0 | 3095.8 | 3045.8 | 2927.3 | 2683.3 | 2317.0 | 1854.6 | 502.5 | 25.4  | 0.0  | 0.0    |
| 28°   | 3169.7 | 3135.0 | 3085.0 | 2953.4 | 2687.2 | 2304.0 | 1823.8 | 463.3 | 21.5  | 0.0  | 0.0    |
| 29°   | 3224.3 | 3188.9 | 3134.3 | 2988.1 | 2688.0 | 2277.8 | 1775.3 | 420.2 | 19.2  | 0.0  | 0.0    |
| 30°   | 3282.8 | 3252.0 | 3196.6 | 3021.9 | 2696.4 | 2243.9 | 1719.1 | 374.0 | 15.4  | 0.0  | 0.0    |
| 31°   | 3329.0 | 3301.3 | 3242.0 | 3052.7 | 2703.3 | 2214.7 | 1649.9 | 327.8 | 13.1  | 0.0  | 0.0    |
| 32°   | 3369.0 | 3344.4 | 3271.3 | 3059.6 | 2689.5 | 2173.1 | 1576.0 | 283.2 | 10.8  | 0.0  | 0.0    |
| 33°   | 3396.7 | 3365.9 | 3280.5 | 3041.9 | 2649.5 | 2104.7 | 1493.6 | 240.9 | 8.5   | 0.0  | 0.0    |
| 34°   | 3406.7 | 3369.8 | 3266.6 | 2995.8 | 2568.7 | 2000.8 | 1386.7 | 197.0 | 6.9   | 0.0  | 0.0    |
| 35°   | 3395.9 | 3350.5 | 3216.6 | 2916.5 | 2459.4 | 1876.9 | 1258.2 | 152.4 | 5.4   | 0.0  | 0.0    |
| 36°   | 3361.3 | 3303.6 | 3145.0 | 2803.4 | 2303.2 | 1730.7 | 1129.7 | 118.5 | 3.8   | 0.0  | 0.0    |
| 37°   | 3286.6 | 3222.8 | 3022.7 | 2654.1 | 2148.5 | 1562.9 | 983.5  | 92.3  | 2.3   | 0.0  | 0.0    |
| 38°   | 3195.1 | 3102.7 | 2859.6 | 2465.6 | 1948.4 | 1374.4 | 838.8  | 76.2  | 1.5   | 0.0  | 0.0    |
| 39°   | 3038.9 | 2937.3 | 2665.6 | 2248.6 | 1752.2 | 1195.1 | 698.0  | 66.2  | 0.8   | 0.0  | 0.0    |
| 40°   | 2850.3 | 2729.5 | 2444.0 | 2016.2 | 1520.6 | 1007.3 | 582.5  | 55.4  | 0.8   | 0.0  | 0.0    |
| 42.5° | 2150.1 | 2047.7 | 1740.7 | 1371.3 | 929.6  | 594.1  | 323.2  | 36.2  | 0.0   | 0.0  | 0.0    |
| 45°   | 1343.6 | 1236.6 | 1028.9 | 751.8  | 503.3  | 307.8  | 155.4  | 20.8  | 0.0   | 0.0  | 0.0    |
| 47.5° | 548.7  | 503.3  | 414.0  | 318.6  | 227.8  | 144.7  | 64.6   | 9.2   | 0.0   | 0.0  | 0.0    |
| 50°   | 188.5  | 167.8  | 140.8  | 103.1  | 73.1   | 50.0   | 33.9   | 2.3   | 0.0   | 0.0  | 0.0    |
| 52.5° | 54.6   | 55.4   | 48.5   | 41.6   | 32.3   | 23.1   | 16.9   | 0.0   | 0.0   | 0.0  | 0.0    |
| 55°   | 10.0   | 8.5    | 10.0   | 9.2    | 10.0   | 8.5    | 6.2    | 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   | 1.5  | 0.0    |
| 65°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.8   | 1.5  | 0.8    |
| 67.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.8   | 1.5   | 1.5  | 0.8    |
| 70°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.8   | 1.5   | 1.5  | 0.8    |
| 72.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.8   | 1.5   | 2.3  | 0.8    |
| 75°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.8   | 1.5   | 2.3  | 0.8    |
| 77.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.8   | 1.5   | 2.3  | 0.8    |
| 80°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.8   | 1.5   | 2.3  | 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 | 1.5   | 2.3 | 0.8    |
| 85°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.8 | 1.5   | 2.3 | 0.8    |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.8 | 1.5   | 2.3 | 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°    | 43.9 | 43.9   | 43.9 |
| 2.5°  | 28.5 | 25.4   | 23.9 |
| 5°    | 16.2 | 12.3   | 11.5 |
| 7.5°  | 8.5  | 5.4    | 4.6  |
| 10°   | 3.1  | 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)