

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: P1319388

Luminaire Tested: LDSQA3D17R359835DE010 3LSQCA30R 1MMS

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1319388  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-51)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D17R359835DE010 3LSQCA30R 1MMS  
Description: 3in Adjustable LED luminaire with, R35 optic, 3500K CCT AND, 98CRI , 3LSQCA30R 1MMS TRII  
Light Source: -  
Ballast/Driver: -

**Summary**

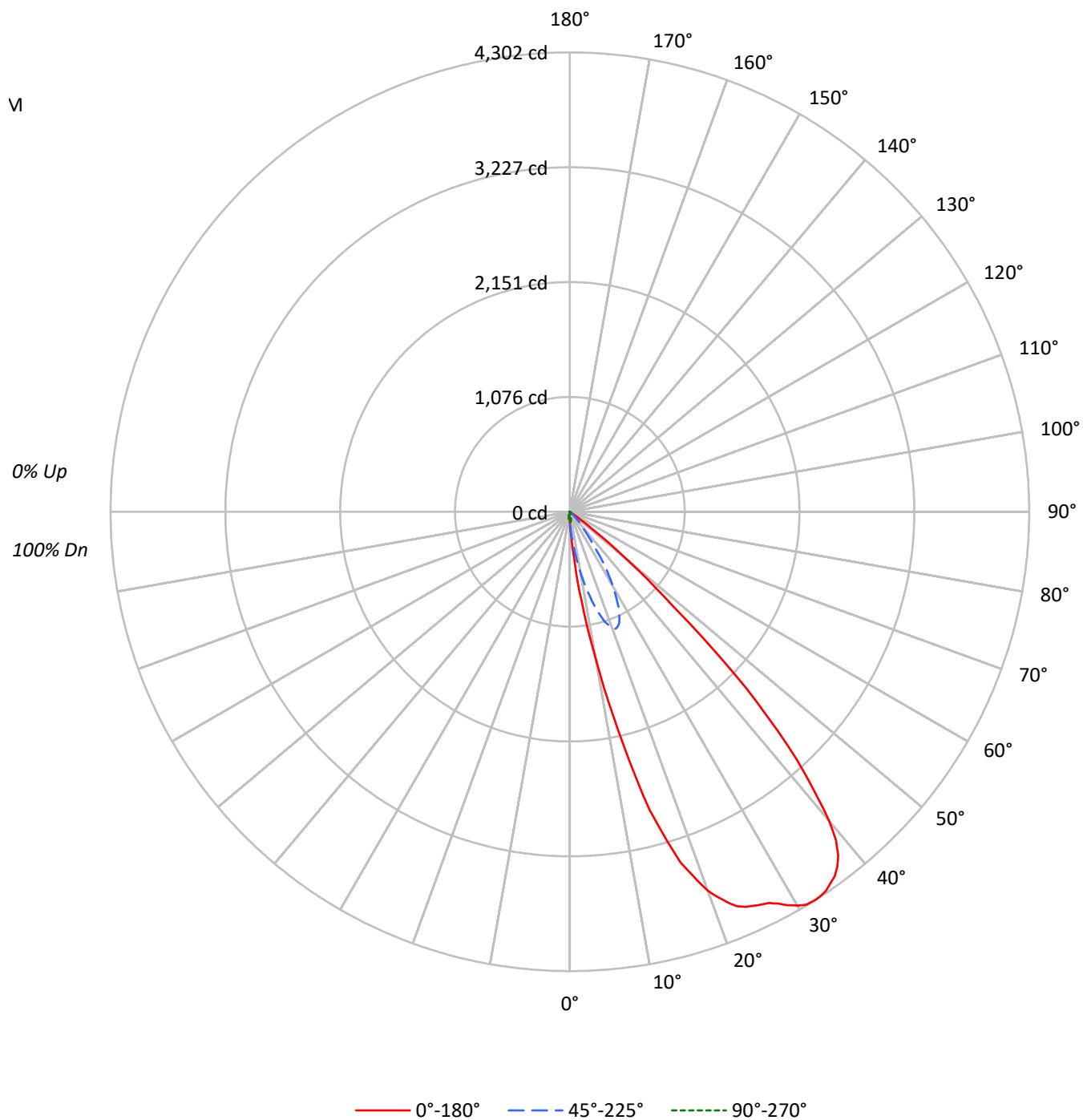
Lumens per Lamp: N/A  
Luminaire Lumens: 1285.0 lumens  
Efficiency: N/A  
Efficacy: 63.0 lumens/watt  
Spacing Criteria (0/90/45): 2.53 / 0.45 / 1.29  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 20.4  
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 |
| RW  | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30 |
| 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  | 91  |    |
| 2   | 106 | 100 | 95  | 91  | 103 | 98  | 94  | 90  | 95  | 91  | 88  | 92  | 89  | 86  | 89  | 87  | 85  | 83  |    |
| 3   | 99  | 91  | 86  | 81  | 97  | 90  | 85  | 80  | 87  | 83  | 79  | 85  | 81  | 78  | 82  | 79  | 76  | 75  |    |
| 4   | 93  | 84  | 77  | 72  | 91  | 82  | 76  | 72  | 80  | 75  | 71  | 78  | 73  | 70  | 76  | 72  | 69  | 67  |    |
| 5   | 86  | 76  | 70  | 64  | 85  | 75  | 69  | 64  | 74  | 68  | 63  | 72  | 67  | 63  | 70  | 66  | 62  | 61  |    |
| 6   | 81  | 70  | 63  | 58  | 79  | 69  | 62  | 58  | 68  | 62  | 57  | 66  | 61  | 57  | 65  | 60  | 56  | 55  |    |
| 7   | 75  | 64  | 57  | 52  | 74  | 64  | 57  | 52  | 62  | 56  | 52  | 61  | 55  | 51  | 60  | 55  | 51  | 49  |    |
| 8   | 71  | 59  | 52  | 47  | 69  | 59  | 52  | 47  | 57  | 51  | 47  | 56  | 51  | 46  | 55  | 50  | 46  | 45  |    |
| 9   | 66  | 54  | 47  | 43  | 65  | 54  | 47  | 43  | 53  | 47  | 42  | 52  | 46  | 42  | 51  | 46  | 42  | 40  |    |
| 10  | 62  | 50  | 43  | 39  | 61  | 50  | 43  | 39  | 49  | 43  | 39  | 48  | 42  | 38  | 47  | 42  | 38  | 37  |    |

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

|     | 0°     | 45°    | 90°   | 135°  | 180°  |
|-----|--------|--------|-------|-------|-------|
| 0°  | 16671  | 16671  | 16671 | 16671 | 16671 |
| 5°  | 72489  | 44932  | 15473 | 5515  | 3821  |
| 10° | 243974 | 101395 | 11577 | 1294  | 437   |
| 15° | 516262 | 166334 | 7221  | 0     | 0     |
| 20° | 692232 | 212545 | 3372  | 0     | 0     |
| 25° | 773637 | 208725 | 703   | 0     | 0     |
| 30° | 846909 | 159928 | 0     | 0     | 0     |
| 35° | 893836 | 87126  | 0     | 0     | 0     |
| 40° | 849687 | 39141  | 0     | 0     | 0     |
| 45° | 570270 | 17317  | 0     | 0     | 0     |
| 50° | 190499 | 1634   | 0     | 0     | 0     |
| 55° | 10299  | 0      | 0     | 0     | 0     |
| 60° | 0      | 0      | 413   | 0     | 0     |
| 65° | 0      | 0      | 1019  | 0     | 0     |
| 70° | 0      | 604    | 1259  | 0     | 0     |
| 75° | 0      | 799    | 1664  | 0     | 0     |
| 80° | 0      | 1190   | 2479  | 0     | 0     |
| 85° | 0      | 2371   | 4940  | 0     | 0     |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 570270 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 20.8   | 1.6       |
| 10°-20°   | 178.3  | 13.9      |
| 20°-30°   | 391.2  | 30.4      |
| 30°-40°   | 452.5  | 35.2      |
| 40°-50°   | 223.4  | 17.4      |
| 50°-60°   | 16.5   | 1.3       |
| 60°-70°   | 0.6    | 0.0       |
| 70°-80°   | 0.9    | 0.1       |
| 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°    | 590.3  | 45.9      |
| 0°-40°    | 1042.8 | 81.1      |
| 0°-60°    | 1282.7 | 99.8      |
| 0°-90°    | 1285.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1285.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45°  | 90° | 135° | 180° | Flux |
|-----|------|------|-----|------|------|------|
| 0°  | 97   | 97   | 97  | 97   | 97   |      |
| 5°  | 419  | 260  | 90  | 32   | 22   | 72   |
| 15° | 2896 | 933  | 40  | 0    | 0    | 817  |
| 25° | 4071 | 1098 | 4   | 0    | 0    | 1882 |
| 35° | 4251 | 414  | 0   | 0    | 0    | 2625 |
| 45° | 2341 | 71   | 0   | 0    | 0    | 1719 |
| 55° | 34   | 0    | 0   | 0    | 0    | 140  |
| 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°    | 35°    | 45°    | 67.5° | 90°  |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|------|
| 0°    | 96.8   | 96.8   | 96.8   | 96.8   | 96.8   | 96.8   | 96.8   | 96.8   | 96.8   | 96.8  | 96.8 |
| 2.5°  | 192.5  | 197.4  | 194.9  | 194.9  | 193.7  | 187.6  | 176.5  | 172.9  | 159.4  | 126.3 | 98.1 |
| 5°    | 419.3  | 420.5  | 416.8  | 398.4  | 382.5  | 367.8  | 335.9  | 321.2  | 259.9  | 154.5 | 89.5 |
| 7.5°  | 850.8  | 832.4  | 809.1  | 783.3  | 727.0  | 675.5  | 608.0  | 536.9  | 402.1  | 179.0 | 79.7 |
| 10°   | 1395.1 | 1369.3 | 1349.7 | 1288.4 | 1186.7 | 1081.2 | 952.5  | 836.1  | 579.8  | 196.1 | 66.2 |
| 12.5° | 2097.5 | 2082.8 | 2012.9 | 1890.3 | 1739.5 | 1587.5 | 1363.2 | 1178.1 | 758.8  | 199.8 | 53.9 |
| 15°   | 2895.5 | 2871.0 | 2764.4 | 2590.3 | 2385.6 | 2146.5 | 1846.2 | 1534.8 | 932.9  | 188.8 | 40.5 |
| 17.5° | 3441.1 | 3427.6 | 3335.6 | 3153.0 | 2917.6 | 2613.6 | 2258.1 | 1869.5 | 1076.3 | 165.5 | 28.2 |
| 20°   | 3777.0 | 3757.3 | 3671.5 | 3517.1 | 3270.7 | 2953.2 | 2531.5 | 2082.8 | 1159.7 | 136.1 | 18.4 |
| 21°   | 3864.0 | 3844.4 | 3775.7 | 3615.1 | 3379.8 | 3039.0 | 2606.2 | 2134.3 | 1175.6 | 122.6 | 14.7 |
| 22°   | 3946.1 | 3926.5 | 3854.2 | 3712.0 | 3479.1 | 3123.6 | 2665.1 | 2173.5 | 1173.2 | 111.6 | 11.0 |
| 23°   | 4014.8 | 3993.9 | 3922.8 | 3791.7 | 3557.5 | 3198.3 | 2709.2 | 2193.1 | 1157.2 | 100.5 | 8.6  |
| 24°   | 4050.3 | 4038.1 | 3974.3 | 3850.5 | 3621.3 | 3251.1 | 2739.9 | 2200.5 | 1137.6 | 89.5  | 6.1  |
| 25°   | 4071.2 | 4056.5 | 3993.9 | 3879.9 | 3663.0 | 3292.7 | 2759.5 | 2194.3 | 1098.4 | 79.7  | 3.7  |
| 26°   | 4093.2 | 4071.2 | 4000.1 | 3889.7 | 3685.0 | 3312.4 | 2760.7 | 2178.4 | 1056.7 | 71.1  | 1.2  |
| 27°   | 4112.9 | 4092.0 | 4018.5 | 3897.1 | 3688.7 | 3306.2 | 2750.9 | 2147.8 | 1006.5 | 62.5  | 1.2  |
| 28°   | 4155.8 | 4132.5 | 4047.9 | 3913.0 | 3692.4 | 3290.3 | 2720.2 | 2106.1 | 940.3  | 55.2  | 0.0  |
| 29°   | 4212.2 | 4187.6 | 4090.8 | 3951.0 | 3701.0 | 3273.1 | 2678.6 | 2050.9 | 882.6  | 49.0  | 0.0  |
| 30°   | 4258.7 | 4236.7 | 4147.2 | 3998.8 | 3723.0 | 3257.2 | 2629.5 | 1976.1 | 804.2  | 41.7  | 0.0  |
| 31°   | 4293.1 | 4271.0 | 4188.9 | 4039.3 | 3742.6 | 3242.5 | 2568.2 | 1898.9 | 733.1  | 36.8  | 0.0  |
| 32°   | 4301.6 | 4283.3 | 4206.0 | 4056.5 | 3742.6 | 3220.4 | 2511.8 | 1811.9 | 663.2  | 30.6  | 0.0  |
| 33°   | 4298.0 | 4279.6 | 4201.1 | 4044.2 | 3709.5 | 3167.7 | 2443.2 | 1707.7 | 583.5  | 27.0  | 0.0  |
| 34°   | 4284.5 | 4262.4 | 4179.1 | 4005.0 | 3644.6 | 3078.2 | 2343.9 | 1603.5 | 500.2  | 22.1  | 0.0  |
| 35°   | 4251.4 | 4231.8 | 4141.1 | 3931.4 | 3544.0 | 2942.1 | 2211.5 | 1483.3 | 414.4  | 18.4  | 0.0  |
| 36°   | 4219.5 | 4190.1 | 4078.5 | 3840.7 | 3411.6 | 2802.4 | 2053.4 | 1344.8 | 340.8  | 14.7  | 0.0  |
| 37°   | 4160.7 | 4119.0 | 4006.2 | 3709.5 | 3224.1 | 2605.0 | 1873.2 | 1192.8 | 285.6  | 11.0  | 0.0  |
| 38°   | 4082.2 | 4025.8 | 3882.4 | 3557.5 | 3035.3 | 2419.9 | 1704.0 | 1055.5 | 240.3  | 7.4   | 0.0  |
| 39°   | 3960.8 | 3894.6 | 3699.7 | 3349.1 | 2817.1 | 2205.4 | 1510.3 | 909.6  | 204.7  | 4.9   | 0.0  |
| 40°   | 3779.4 | 3716.9 | 3501.1 | 3101.5 | 2600.1 | 1968.8 | 1311.7 | 745.3  | 174.1  | 2.5   | 0.0  |
| 42.5° | 3146.9 | 3061.0 | 2811.0 | 2413.8 | 1922.2 | 1415.9 | 867.9  | 414.4  | 115.2  | 0.0   | 0.0  |
| 45°   | 2341.4 | 2265.4 | 2020.3 | 1658.6 | 1281.1 | 866.7  | 464.6  | 244.0  | 71.1   | 0.0   | 0.0  |
| 47.5° | 1322.7 | 1314.2 | 1154.8 | 952.5  | 714.7  | 460.9  | 235.4  | 147.1  | 30.6   | 0.0   | 0.0  |
| 50°   | 711.0  | 666.9  | 574.9  | 436.4  | 297.9  | 201.0  | 127.5  | 80.9   | 6.1    | 0.0   | 0.0  |
| 52.5° | 259.9  | 251.3  | 210.9  | 175.3  | 134.8  | 91.9   | 65.0   | 35.6   | 0.0    | 0.0   | 0.0  |
| 55°   | 34.3   | 31.9   | 33.1   | 35.6   | 36.8   | 31.9   | 20.8   | 7.4    | 0.0    | 0.0   | 0.0  |
| 57.5° | 0.0    | 0.0    | 0.0    | 1.2    | 2.5    | 2.5    | 2.5    | 0.0    | 0.0    | 0.0   | 1.2  |
| 60°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.2   | 1.2  |
| 62.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.2   | 1.2  |
| 65°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.2   | 2.5  |
| 67.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 2.5   | 2.5  |
| 70°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.2    | 2.5   | 2.5  |
| 72.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.2    | 2.5   | 2.5  |
| 75°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.2    | 2.5   | 2.5  |
| 77.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.2    | 2.5   | 2.5  |
| 80°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.2    | 2.5   | 2.5  |



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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 | 0.0 | 1.2 | 2.5   | 2.5 |
| 85°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.2 | 2.5   | 2.5 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.2 | 2.5   | 2.5 |
| 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°    | 96.8   | 96.8 | 96.8   | 96.8 |
| 2.5°  | 74.8   | 57.6 | 49.0   | 47.8 |
| 5°    | 51.5   | 31.9 | 23.3   | 22.1 |
| 7.5°  | 35.6   | 15.9 | 11.0   | 9.8  |
| 10°   | 20.8   | 7.4  | 3.7    | 2.5  |
| 12.5° | 12.3   | 1.2  | 0.0    | 0.0  |
| 15°   | 3.7    | 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°   | 1.2    | 0.0  | 0.0    | 0.0  |
| 67.5° | 1.2    | 0.0  | 0.0    | 0.0  |
| 70°   | 1.2    | 0.0  | 0.0    | 0.0  |
| 72.5° | 1.2    | 0.0  | 0.0    | 0.0  |
| 75°   | 1.2    | 0.0  | 0.0    | 0.0  |
| 77.5° | 1.2    | 0.0  | 0.0    | 0.0  |
| 80°   | 1.2    | 0.0  | 0.0    | 0.0  |



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**CANDELA DISTRIBUTION (continued):**

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

(END OF REPORT)