

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: P1310356

Luminaire Tested: LDSQA3D13R309035DE010 3LSQCA30R 1MB

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1310356  
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: LDSQA3D13R309035DE010 3LSQCA30R 1MB  
Description: 3in Adjustable LED luminaire with, R30 optic, 3500K CCT AND, 90CRI , 3LSQCA30R 1MB TRIM  
Light Source: -  
Ballast/Driver: -

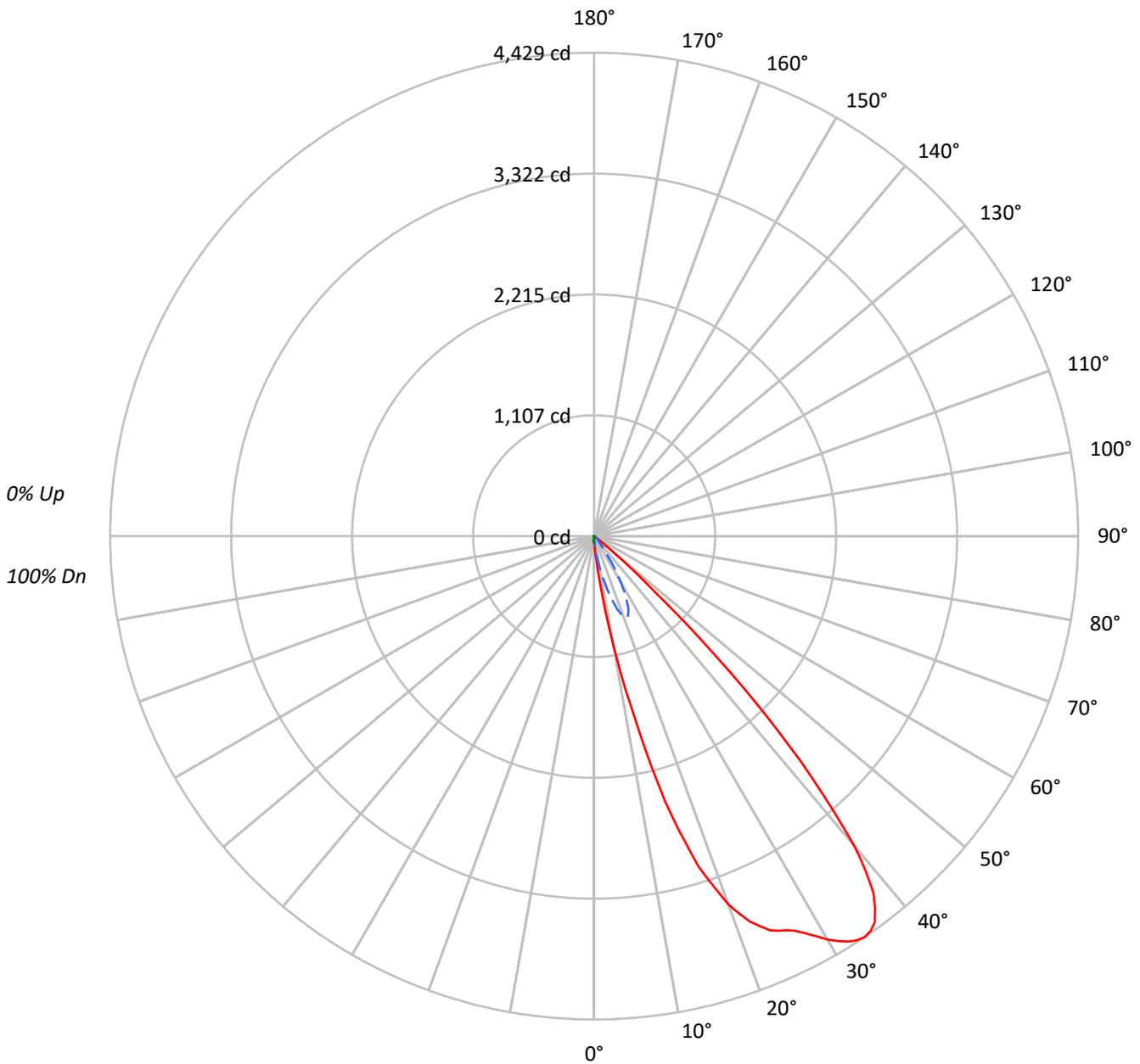
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1066.0 lumens  
Efficiency: N/A  
Efficacy: 73.0 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): 14.6  
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



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

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

|     | 0°     | 45°    | 90°  | 135° | 180° |
|-----|--------|--------|------|------|------|
| 0°  | 9817   | 9817   | 9817 | 9817 | 9817 |
| 5°  | 35631  | 22129  | 8990 | 3630 | 2593 |
| 10° | 176348 | 53006  | 6995 | 700  | 0    |
| 15° | 449846 | 100952 | 4457 | 0    | 0    |
| 20° | 657299 | 143560 | 1833 | 0    | 0    |
| 25° | 758301 | 140867 | 380  | 0    | 0    |
| 30° | 848679 | 96688  | 0    | 0    | 0    |
| 35° | 928169 | 41650  | 0    | 0    | 0    |
| 40° | 833051 | 16187  | 0    | 0    | 0    |
| 45° | 425426 | 6576   | 0    | 0    | 0    |
| 50° | 65670  | 804    | 0    | 0    | 0    |
| 55° | 3903   | 0      | 300  | 0    | 0    |
| 60° | 0      | 0      | 344  | 0    | 0    |
| 65° | 0      | 0      | 815  | 0    | 0    |
| 70° | 0      | 504    | 1007 | 0    | 0    |
| 75° | 0      | 665    | 1996 | 0    | 0    |
| 80° | 0      | 992    | 2975 | 0    | 0    |
| 85° | 0      | 1976   | 5928 | 0    | 0    |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 425426 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 11.9   | 1.1       |
| 10°-20°   | 142.0  | 13.3      |
| 20°-30°   | 351.0  | 32.9      |
| 30°-40°   | 403.7  | 37.9      |
| 40°-50°   | 149.7  | 14.0      |
| 50°-60°   | 5.4    | 0.5       |
| 60°-70°   | 0.5    | 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°    | 504.9  | 47.4      |
| 0°-40°    | 908.6  | 85.2      |
| 0°-60°    | 1063.8 | 99.8      |
| 0°-90°    | 1066.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1066.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45° | 90° | 135° | 180° | Flux |
|-----|------|-----|-----|------|------|------|
| 0°  | 57   | 57  | 57  | 57   | 57   |      |
| 5°  | 206  | 128 | 52  | 21   | 15   | 45   |
| 15° | 2523 | 566 | 25  | 0    | 0    | 725  |
| 25° | 3990 | 741 | 2   | 0    | 0    | 1844 |
| 35° | 4415 | 198 | 0   | 0    | 0    | 2677 |
| 45° | 1747 | 27  | 0   | 0    | 0    | 1360 |
| 55° | 13   | 0   | 1   | 0    | 0    | 45   |
| 65° | 0    | 0   | 2   | 0    | 0    | 0    |
| 75° | 0    | 1   | 3   | 0    | 0    | 0    |
| 85° | 0    | 1   | 3   | 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°    | 57.0   | 57.0   | 57.0   | 57.0   | 57.0   | 57.0   | 57.0   | 57.0  | 57.0  | 57.0 | 57.0   |
| 2.5°  | 101.0  | 102.0  | 102.0  | 99.0   | 98.0   | 97.0   | 94.0   | 85.0  | 71.0  | 57.0 | 46.0   |
| 5°    | 206.1  | 207.1  | 207.1  | 201.1  | 189.1  | 177.1  | 167.1  | 128.0 | 82.0  | 52.0 | 34.0   |
| 7.5°  | 486.2  | 487.2  | 466.2  | 442.2  | 394.2  | 369.1  | 323.1  | 197.1 | 93.0  | 47.0 | 22.0   |
| 10°   | 1008.4 | 986.4  | 931.4  | 861.3  | 787.3  | 691.3  | 594.2  | 303.1 | 101.0 | 40.0 | 14.0   |
| 12.5° | 1685.6 | 1664.6 | 1593.6 | 1493.6 | 1348.5 | 1160.4 | 976.4  | 426.2 | 102.0 | 32.0 | 8.0    |
| 15°   | 2523.0 | 2463.9 | 2378.9 | 2212.8 | 1998.8 | 1707.7 | 1403.5 | 566.2 | 98.0  | 25.0 | 2.0    |
| 17.5° | 3172.2 | 3118.2 | 3010.2 | 2816.1 | 2550.0 | 2226.9 | 1853.7 | 699.3 | 87.0  | 16.0 | 0.0    |
| 20°   | 3586.4 | 3529.4 | 3428.3 | 3257.2 | 2974.1 | 2595.0 | 2167.8 | 783.3 | 72.0  | 10.0 | 0.0    |
| 21°   | 3704.4 | 3649.4 | 3550.4 | 3380.3 | 3098.2 | 2720.0 | 2244.9 | 801.3 | 65.0  | 8.0  | 0.0    |
| 22°   | 3808.5 | 3765.4 | 3673.4 | 3488.3 | 3201.2 | 2812.1 | 2322.9 | 803.3 | 60.0  | 6.0  | 0.0    |
| 23°   | 3881.5 | 3850.5 | 3758.4 | 3588.4 | 3302.3 | 2887.1 | 2364.9 | 791.3 | 54.0  | 4.0  | 0.0    |
| 24°   | 3951.5 | 3913.5 | 3834.5 | 3676.4 | 3382.3 | 2950.1 | 2402.9 | 769.3 | 48.0  | 3.0  | 0.0    |
| 25°   | 3990.5 | 3946.5 | 3885.5 | 3737.4 | 3448.3 | 2990.1 | 2425.9 | 741.3 | 42.0  | 2.0  | 0.0    |
| 26°   | 4017.5 | 3983.5 | 3916.5 | 3773.4 | 3476.3 | 3016.2 | 2428.9 | 700.3 | 38.0  | 1.0  | 0.0    |
| 27°   | 4058.6 | 4024.5 | 3959.5 | 3805.5 | 3488.3 | 3012.2 | 2410.9 | 653.3 | 33.0  | 0.0  | 0.0    |
| 28°   | 4120.6 | 4075.6 | 4010.5 | 3839.5 | 3493.3 | 2995.1 | 2370.9 | 602.2 | 28.0  | 0.0  | 0.0    |
| 29°   | 4191.6 | 4145.6 | 4074.6 | 3884.5 | 3494.3 | 2961.1 | 2307.9 | 546.2 | 25.0  | 0.0  | 0.0    |
| 30°   | 4267.6 | 4227.6 | 4155.6 | 3928.5 | 3505.3 | 2917.1 | 2234.9 | 486.2 | 20.0  | 0.0  | 0.0    |
| 31°   | 4327.7 | 4291.6 | 4214.6 | 3968.5 | 3514.3 | 2879.1 | 2144.8 | 426.2 | 17.0  | 0.0  | 0.0    |
| 32°   | 4379.7 | 4347.7 | 4252.6 | 3977.5 | 3496.3 | 2825.1 | 2048.8 | 368.1 | 14.0  | 0.0  | 0.0    |
| 33°   | 4415.7 | 4375.7 | 4264.6 | 3954.5 | 3444.3 | 2736.0 | 1941.7 | 313.1 | 11.0  | 0.0  | 0.0    |
| 34°   | 4428.7 | 4380.7 | 4246.6 | 3894.5 | 3339.3 | 2601.0 | 1802.7 | 256.1 | 9.0   | 0.0  | 0.0    |
| 35°   | 4414.7 | 4355.7 | 4181.6 | 3791.5 | 3197.2 | 2439.9 | 1635.6 | 198.1 | 7.0   | 0.0  | 0.0    |
| 36°   | 4369.7 | 4294.6 | 4088.6 | 3644.4 | 2994.1 | 2249.9 | 1468.6 | 154.1 | 5.0   | 0.0  | 0.0    |
| 37°   | 4272.6 | 4189.6 | 3929.5 | 3450.3 | 2793.1 | 2031.8 | 1278.5 | 120.0 | 3.0   | 0.0  | 0.0    |
| 38°   | 4153.6 | 4033.5 | 3717.4 | 3205.2 | 2533.0 | 1786.7 | 1090.4 | 99.0  | 2.0   | 0.0  | 0.0    |
| 39°   | 3950.5 | 3818.5 | 3465.3 | 2923.1 | 2277.9 | 1553.6 | 907.3  | 86.0  | 1.0   | 0.0  | 0.0    |
| 40°   | 3705.4 | 3548.4 | 3177.2 | 2621.0 | 1976.8 | 1309.5 | 757.3  | 72.0  | 1.0   | 0.0  | 0.0    |
| 42.5° | 2795.1 | 2662.0 | 2262.9 | 1782.7 | 1208.5 | 772.3  | 420.2  | 47.0  | 0.0   | 0.0  | 0.0    |
| 45°   | 1746.7 | 1607.6 | 1337.5 | 977.4  | 654.3  | 400.2  | 202.1  | 27.0  | 0.0   | 0.0  | 0.0    |
| 47.5° | 713.3  | 654.3  | 538.2  | 414.2  | 296.1  | 188.1  | 84.0   | 12.0  | 0.0   | 0.0  | 0.0    |
| 50°   | 245.1  | 218.1  | 183.1  | 134.1  | 95.0   | 65.0   | 44.0   | 3.0   | 0.0   | 0.0  | 0.0    |
| 52.5° | 71.0   | 72.0   | 63.0   | 54.0   | 42.0   | 30.0   | 22.0   | 0.0   | 0.0   | 0.0  | 0.0    |
| 55°   | 13.0   | 11.0   | 13.0   | 12.0   | 13.0   | 11.0   | 8.0    | 0.0   | 0.0   | 1.0  | 0.0    |
| 57.5° | 0.0    | 0.0    | 1.0    | 1.0    | 1.0    | 1.0    | 1.0    | 0.0   | 1.0   | 1.0  | 0.0    |
| 60°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 1.0   | 1.0  | 0.0    |
| 62.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 1.0   | 2.0  | 0.0    |
| 65°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 1.0   | 2.0  | 1.0    |
| 67.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.0   | 2.0   | 2.0  | 1.0    |
| 70°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.0   | 2.0   | 2.0  | 1.0    |
| 72.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.0   | 2.0   | 3.0  | 1.0    |
| 75°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.0   | 2.0   | 3.0  | 1.0    |
| 77.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.0   | 2.0   | 3.0  | 1.0    |
| 80°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.0   | 2.0   | 3.0  | 1.0    |



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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 | 1.0 | 2.0   | 3.0 | 1.0    |
| 85°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.0 | 2.0   | 3.0 | 1.0    |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.0 | 2.0   | 3.0 | 1.0    |
| 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°    | 57.0 | 57.0   | 57.0 |
| 2.5°  | 37.0 | 33.0   | 31.0 |
| 5°    | 21.0 | 16.0   | 15.0 |
| 7.5°  | 11.0 | 7.0    | 6.0  |
| 10°   | 4.0  | 1.0    | 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)