

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: P1312662

Luminaire Tested: LDSQA3D17R159050DE010 3LSQCA30R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1312662
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-59)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D17R159050DE010 3LSQCA30R 1MW
Description: 3in Adjustable LED luminaire with, R15 optic, 5000K CCT AND, 90CRI , 3LSQCA30R 1MW TRIM
Light Source: -
Ballast/Driver: -

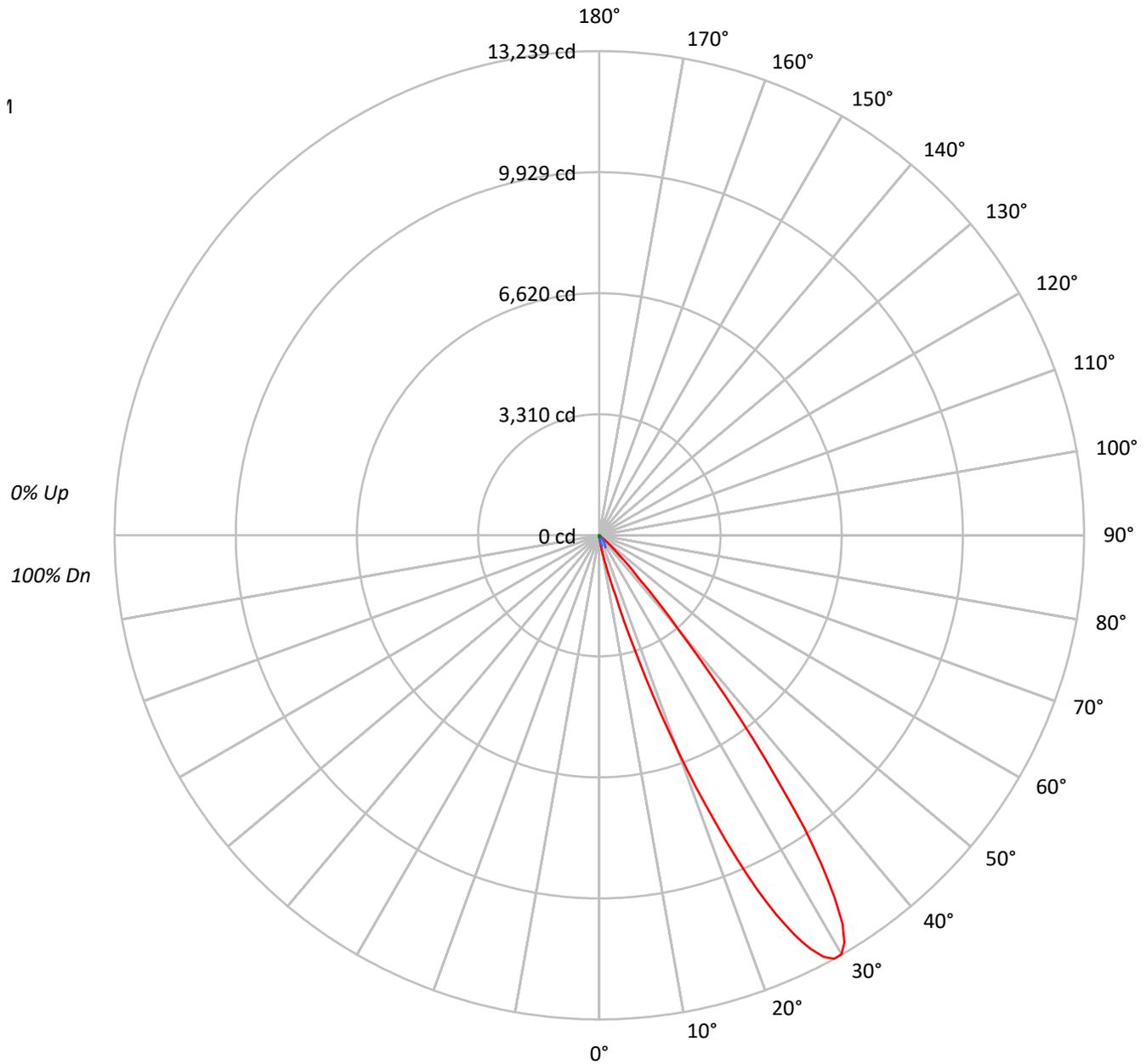
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1445.9 lumens
Efficiency: N/A
Efficacy: 68.2 lumens/watt
Spacing Criteria (0/90/45): 2.35 / 0.49 / 1.26
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 21.2
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: P1312662
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Luminous Intensity Polar Plot



— 0°-180° - - - 45°-225° ····· 90°-270°



TEST NUMBER: P1312662

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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 | 0 | |
| 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 | 99 | 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 | 79 | 74 | 70 | 77 | 73 | 70 | 68 | | | | |
| 5 | 87 | 77 | 70 | 65 | 85 | 76 | 70 | 65 | 74 | 69 | 64 | 72 | 67 | 64 | 71 | 66 | 63 | 61 | | | | |
| 6 | 81 | 71 | 64 | 59 | 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 | 42 | 41 | | | | |
| 10 | 62 | 51 | 44 | 39 | 61 | 50 | 43 | 39 | 49 | 43 | 39 | 48 | 43 | 39 | 47 | 42 | 39 | 37 | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° | 135° | 180° |
|-----|---------|-------|------|------|------|
| 0° | 8232 | 8232 | 8232 | 8232 | 8232 |
| 5° | 17755 | 13139 | 7780 | 4132 | 3406 |
| 10° | 78713 | 24850 | 6156 | 1714 | 1224 |
| 15° | 297686 | 57430 | 4261 | 749 | 499 |
| 20° | 1144867 | 80953 | 2584 | 257 | 257 |
| 25° | 2177078 | 75916 | 1330 | 0 | 0 |
| 30° | 2629957 | 61251 | 557 | 0 | 0 |
| 35° | 2051171 | 41692 | 294 | 0 | 0 |
| 40° | 748518 | 20549 | 315 | 0 | 315 |
| 45° | 192193 | 6162 | 341 | 0 | 682 |
| 50° | 32420 | 750 | 375 | 375 | 1125 |
| 55° | 4234 | 0 | 841 | 1261 | 2102 |
| 60° | 482 | 482 | 1447 | 1929 | 2893 |
| 65° | 571 | 571 | 2282 | 2853 | 3423 |
| 70° | 705 | 705 | 2820 | 2820 | 3525 |
| 75° | 932 | 932 | 3726 | 2795 | 3726 |
| 80° | 0 | 1389 | 4166 | 2777 | 4166 |
| 85° | 0 | 2766 | 8299 | 2766 | 2766 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 192193 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 6.6 | 0.5 |
| 10°-20° | 110.8 | 7.7 |
| 20°-30° | 614.6 | 42.5 |
| 30°-40° | 593.7 | 41.1 |
| 40°-50° | 103.3 | 7.1 |
| 50°-60° | 7.4 | 0.5 |
| 60°-70° | 4.3 | 0.3 |
| 70°-80° | 3.5 | 0.2 |
| 80°-90° | 1.8 | 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° | 731.9 | 50.6 |
| 0°-40° | 1325.6 | 91.7 |
| 0°-60° | 1436.3 | 99.3 |
| 0°-90° | 1445.9 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 1445.9 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|-------|-----|-----|------|------|------|
| 0° | 48 | 48 | 48 | 48 | 48 | |
| 5° | 103 | 76 | 45 | 24 | 20 | 20 |
| 15° | 1670 | 322 | 24 | 4 | 3 | 744 |
| 25° | 11457 | 400 | 7 | 0 | 0 | 5123 |
| 35° | 9756 | 198 | 1 | 0 | 0 | 5611 |
| 45° | 789 | 25 | 1 | 0 | 3 | 848 |
| 55° | 14 | 0 | 3 | 4 | 7 | 27 |
| 65° | 1 | 1 | 6 | 7 | 8 | 1 |
| 75° | 1 | 1 | 6 | 4 | 6 | 1 |
| 85° | 0 | 1 | 4 | 1 | 1 | 0 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P1312662

CATALOG NUMBER: LDSQA3D17R159050DE010 3LSQCA30R 1MW

CANDELA DISTRIBUTION (FULL):

| | 0° | 2.5° | 5° | 7.5° | 10° | 12.5° | 15° | 17.5° | 20° | 22.5° | 45° |
|-------|---------|---------|---------|---------|---------|--------|--------|--------|--------|--------|-------|
| 0° | 47.8 | 47.8 | 47.8 | 47.8 | 47.8 | 47.8 | 47.8 | 47.8 | 47.8 | 47.8 | 47.8 |
| 2.5° | 70.3 | 67.5 | 68.9 | 68.9 | 68.9 | 68.9 | 68.9 | 66.1 | 66.1 | 67.5 | 60.5 |
| 5° | 102.7 | 102.7 | 101.3 | 102.7 | 102.7 | 101.3 | 98.5 | 97.1 | 97.1 | 94.2 | 76.0 |
| 7.5° | 205.4 | 202.5 | 202.5 | 199.7 | 185.7 | 181.5 | 178.6 | 171.6 | 158.9 | 156.1 | 98.5 |
| 10° | 450.1 | 451.5 | 441.7 | 429.0 | 427.6 | 406.5 | 399.5 | 386.8 | 362.9 | 339.0 | 142.1 |
| 12.5° | 817.2 | 798.9 | 775.0 | 776.4 | 735.6 | 721.6 | 689.2 | 654.1 | 617.5 | 579.5 | 233.5 |
| 15° | 1669.6 | 1617.6 | 1648.5 | 1572.6 | 1486.8 | 1389.7 | 1291.3 | 1167.5 | 1062.0 | 949.5 | 322.1 |
| 17.5° | 3516.5 | 3567.1 | 3481.3 | 3156.4 | 2956.7 | 2721.8 | 2391.2 | 2071.9 | 1799.0 | 1579.6 | 393.8 |
| 20° | 6246.7 | 6321.2 | 6030.1 | 5747.3 | 5262.1 | 4733.2 | 4181.8 | 3557.3 | 2959.5 | 2441.8 | 441.7 |
| 21° | 7387.4 | 7342.4 | 7222.9 | 6769.9 | 6210.1 | 5596.8 | 4921.7 | 4232.4 | 3508.0 | 2835.7 | 445.9 |
| 22° | 8490.2 | 8511.3 | 8232.8 | 7758.8 | 7176.4 | 6497.1 | 5672.8 | 4821.8 | 4041.1 | 3156.4 | 438.9 |
| 23° | 9588.8 | 9656.3 | 9287.7 | 8843.3 | 8110.4 | 7343.8 | 6390.2 | 5471.7 | 4506.7 | 3523.5 | 424.8 |
| 24° | 10605.7 | 10559.3 | 10310.3 | 9750.5 | 8967.0 | 8069.6 | 7079.4 | 5965.4 | 4889.3 | 3837.2 | 413.5 |
| 25° | 11456.7 | 11451.1 | 11060.1 | 10515.7 | 9619.7 | 8625.2 | 7533.7 | 6369.1 | 5217.1 | 4049.6 | 399.5 |
| 26° | 12153.0 | 12039.0 | 11731.0 | 11067.1 | 10182.3 | 9133.0 | 7906.5 | 6663.0 | 5401.3 | 4156.5 | 385.4 |
| 27° | 12690.3 | 12608.7 | 12195.2 | 11504.5 | 10580.4 | 9420.0 | 8145.6 | 6809.3 | 5485.7 | 4191.7 | 367.1 |
| 28° | 13051.8 | 12963.2 | 12522.9 | 11811.2 | 10799.8 | 9600.0 | 8272.2 | 6871.2 | 5485.7 | 4157.9 | 350.2 |
| 29° | 13238.9 | 13117.9 | 12679.0 | 11916.7 | 10850.5 | 9621.1 | 8241.2 | 6810.7 | 5399.9 | 4053.8 | 330.5 |
| 30° | 13224.8 | 13074.3 | 12614.3 | 11821.0 | 10700.0 | 9448.1 | 8068.2 | 6592.7 | 5205.8 | 3899.1 | 308.0 |
| 31° | 12996.9 | 12828.1 | 12314.7 | 11497.5 | 10389.1 | 9121.8 | 7741.9 | 6300.1 | 4940.0 | 3697.9 | 285.5 |
| 32° | 12534.2 | 12320.4 | 11819.6 | 11005.2 | 9910.9 | 8633.7 | 7267.9 | 5848.6 | 4541.9 | 3404.0 | 261.6 |
| 33° | 11780.2 | 11565.0 | 11027.7 | 10263.9 | 9263.8 | 8014.8 | 6639.1 | 5363.3 | 4089.0 | 3053.7 | 241.9 |
| 34° | 10836.4 | 10639.5 | 10176.7 | 9407.3 | 8448.0 | 7231.3 | 5916.1 | 4692.4 | 3619.2 | 2706.3 | 220.8 |
| 35° | 9756.1 | 9442.5 | 9023.3 | 8414.2 | 7478.9 | 6255.1 | 5135.5 | 4067.9 | 3135.3 | 2342.0 | 198.3 |
| 36° | 8294.7 | 8351.0 | 7906.5 | 7161.0 | 6385.9 | 5426.6 | 4352.0 | 3391.3 | 2621.9 | 1996.0 | 178.6 |
| 37° | 6999.2 | 6910.6 | 6627.9 | 6051.2 | 5376.0 | 4423.7 | 3647.3 | 2875.1 | 2205.5 | 1687.9 | 157.5 |
| 38° | 5646.1 | 5665.8 | 5388.7 | 4945.6 | 4276.0 | 3637.5 | 2935.6 | 2361.7 | 1845.5 | 1436.1 | 137.8 |
| 39° | 4419.5 | 4404.0 | 4329.5 | 3918.8 | 3312.5 | 2893.4 | 2378.6 | 1958.0 | 1537.4 | 1211.1 | 116.7 |
| 40° | 3329.4 | 3354.7 | 3180.3 | 2932.7 | 2579.7 | 2235.1 | 1894.7 | 1561.3 | 1271.6 | 1021.2 | 91.4 |
| 42.5° | 1619.0 | 1658.4 | 1543.0 | 1479.7 | 1323.6 | 1188.6 | 1002.9 | 818.6 | 696.3 | 602.0 | 40.8 |
| 45° | 789.1 | 766.6 | 756.7 | 725.8 | 689.2 | 616.1 | 545.8 | 468.4 | 409.3 | 353.1 | 25.3 |
| 47.5° | 403.7 | 392.4 | 392.4 | 379.8 | 367.1 | 343.2 | 308.0 | 282.7 | 254.6 | 219.4 | 9.8 |
| 50° | 121.0 | 119.6 | 118.2 | 119.6 | 115.3 | 119.6 | 122.4 | 123.8 | 112.5 | 111.1 | 2.8 |
| 52.5° | 47.8 | 49.2 | 47.8 | 52.0 | 52.0 | 50.6 | 52.0 | 50.6 | 49.2 | 43.6 | 0.0 |
| 55° | 14.1 | 14.1 | 14.1 | 14.1 | 14.1 | 14.1 | 15.5 | 16.9 | 15.5 | 16.9 | 0.0 |
| 57.5° | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 0.0 |
| 60° | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 0.0 | 1.4 |
| 62.5° | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 |
| 65° | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 |
| 67.5° | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 |
| 70° | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 |
| 72.5° | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 |
| 75° | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 |
| 77.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.4 | 1.4 | 1.4 |
| 80° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.4 |



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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 | 1.4 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.4 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.4 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



TEST NUMBER: P1312662

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CANDELA DISTRIBUTION (continued):

| | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° |
|-------|-------|------|--------|------|--------|------|
| 0° | 47.8 | 47.8 | 47.8 | 47.8 | 47.8 | 47.8 |
| 2.5° | 56.3 | 49.2 | 40.8 | 33.8 | 30.9 | 29.5 |
| 5° | 60.5 | 45.0 | 30.9 | 23.9 | 21.1 | 19.7 |
| 7.5° | 64.7 | 40.8 | 23.9 | 16.9 | 12.7 | 11.3 |
| 10° | 67.5 | 35.2 | 18.3 | 9.8 | 7.0 | 7.0 |
| 12.5° | 67.5 | 28.1 | 12.7 | 5.6 | 4.2 | 4.2 |
| 15° | 66.1 | 23.9 | 8.4 | 4.2 | 2.8 | 2.8 |
| 17.5° | 64.7 | 18.3 | 5.6 | 2.8 | 1.4 | 2.8 |
| 20° | 60.5 | 14.1 | 2.8 | 1.4 | 1.4 | 1.4 |
| 21° | 59.1 | 12.7 | 2.8 | 1.4 | 1.4 | 1.4 |
| 22° | 56.3 | 11.3 | 1.4 | 0.0 | 1.4 | 1.4 |
| 23° | 53.5 | 8.4 | 1.4 | 0.0 | 0.0 | 0.0 |
| 24° | 49.2 | 7.0 | 1.4 | 0.0 | 0.0 | 0.0 |
| 25° | 46.4 | 7.0 | 1.4 | 0.0 | 0.0 | 0.0 |
| 26° | 43.6 | 4.2 | 0.0 | 0.0 | 0.0 | 0.0 |
| 27° | 39.4 | 2.8 | 0.0 | 0.0 | 0.0 | 0.0 |
| 28° | 36.6 | 2.8 | 0.0 | 0.0 | 0.0 | 0.0 |
| 29° | 32.4 | 2.8 | 0.0 | 0.0 | 0.0 | 0.0 |
| 30° | 28.1 | 2.8 | 0.0 | 0.0 | 0.0 | 0.0 |
| 31° | 22.5 | 1.4 | 0.0 | 0.0 | 0.0 | 0.0 |
| 32° | 18.3 | 1.4 | 0.0 | 0.0 | 0.0 | 0.0 |
| 33° | 12.7 | 1.4 | 0.0 | 0.0 | 0.0 | 0.0 |
| 34° | 8.4 | 1.4 | 0.0 | 0.0 | 0.0 | 0.0 |
| 35° | 7.0 | 1.4 | 0.0 | 0.0 | 0.0 | 0.0 |
| 36° | 4.2 | 1.4 | 0.0 | 0.0 | 0.0 | 1.4 |
| 37° | 4.2 | 1.4 | 0.0 | 0.0 | 0.0 | 1.4 |
| 38° | 2.8 | 1.4 | 0.0 | 0.0 | 0.0 | 1.4 |
| 39° | 1.4 | 1.4 | 0.0 | 0.0 | 0.0 | 1.4 |
| 40° | 1.4 | 1.4 | 0.0 | 0.0 | 0.0 | 1.4 |
| 42.5° | 0.0 | 1.4 | 0.0 | 0.0 | 1.4 | 2.8 |
| 45° | 0.0 | 1.4 | 0.0 | 0.0 | 1.4 | 2.8 |
| 47.5° | 0.0 | 1.4 | 0.0 | 0.0 | 2.8 | 2.8 |
| 50° | 0.0 | 1.4 | 1.4 | 1.4 | 2.8 | 4.2 |
| 52.5° | 0.0 | 2.8 | 1.4 | 2.8 | 4.2 | 5.6 |
| 55° | 1.4 | 2.8 | 2.8 | 4.2 | 5.6 | 7.0 |
| 57.5° | 1.4 | 4.2 | 4.2 | 5.6 | 7.0 | 7.0 |
| 60° | 2.8 | 4.2 | 5.6 | 5.6 | 8.4 | 8.4 |
| 62.5° | 2.8 | 5.6 | 5.6 | 5.6 | 8.4 | 8.4 |
| 65° | 2.8 | 5.6 | 5.6 | 7.0 | 8.4 | 8.4 |
| 67.5° | 2.8 | 5.6 | 5.6 | 5.6 | 7.0 | 8.4 |
| 70° | 2.8 | 5.6 | 4.2 | 5.6 | 7.0 | 7.0 |
| 72.5° | 2.8 | 5.6 | 4.2 | 4.2 | 5.6 | 7.0 |
| 75° | 2.8 | 5.6 | 4.2 | 4.2 | 5.6 | 5.6 |
| 77.5° | 2.8 | 4.2 | 4.2 | 2.8 | 4.2 | 4.2 |
| 80° | 2.8 | 4.2 | 2.8 | 2.8 | 4.2 | 4.2 |



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CANDELA DISTRIBUTION (continued):

| | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° |
|-------|-------|-----|--------|------|--------|------|
| 82.5° | 2.8 | 4.2 | 2.8 | 1.4 | 2.8 | 2.8 |
| 85° | 2.8 | 4.2 | 2.8 | 1.4 | 1.4 | 1.4 |
| 87.5° | 2.8 | 4.2 | 1.4 | 0.0 | 0.0 | 1.4 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)