

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: P1317476

Luminaire Tested: LDSQA3D13R309827DE010 3LSQCA45R 1MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1317476
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-76)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D13R309827DE010 3LSQCA45R 1MMS
Description: 3in Adjustable LED luminaire with, R30 optic, 2700K CCT AND, 98CRI , 3LSQCA45R 1MMS TRII
Light Source: -
Ballast/Driver: -

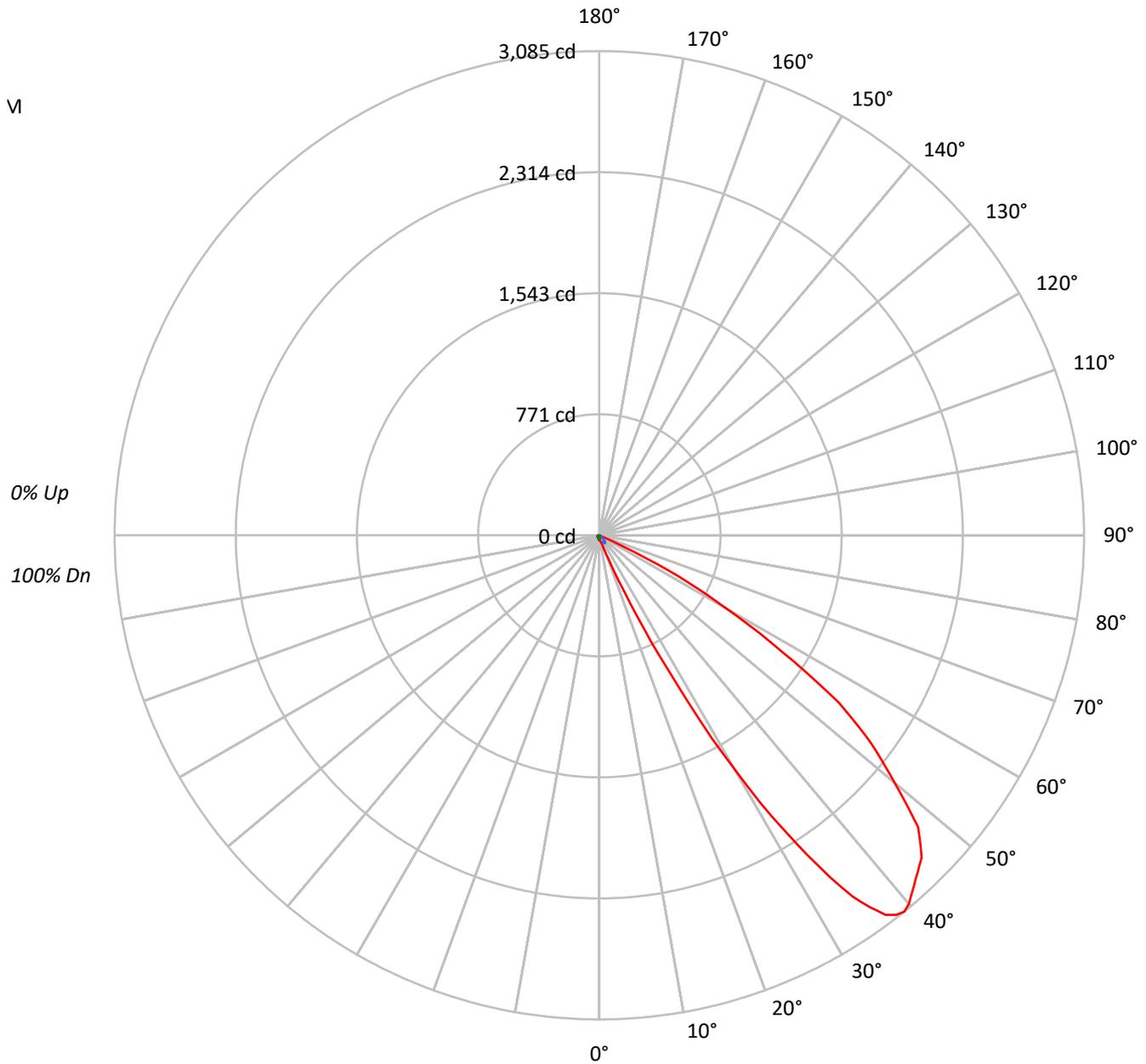
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 802.0 lumens
Efficiency: N/A
Efficacy: 55.3 lumens/watt
Spacing Criteria (0/90/45): 4.07 / 0.66 / 1.44
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



— 0°-180° - - 45°-225° - - - 90°-270°



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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 | 102 | 102 | 102 | 100 |
| 1 | 110 | 106 | 102 | 99 | 108 | 104 | 100 | 97 | 100 | 97 | 94 | 96 | 93 | 91 | 92 | 90 | 89 | 89 | 89 | 89 | 87 |
| 2 | 100 | 93 | 86 | 81 | 98 | 91 | 85 | 80 | 87 | 83 | 78 | 84 | 80 | 77 | 81 | 78 | 75 | 75 | 75 | 75 | 73 |
| 3 | 91 | 81 | 73 | 67 | 89 | 79 | 72 | 66 | 76 | 70 | 65 | 74 | 68 | 64 | 71 | 67 | 63 | 63 | 63 | 63 | 61 |
| 4 | 83 | 71 | 62 | 55 | 80 | 69 | 61 | 55 | 67 | 60 | 54 | 64 | 58 | 53 | 62 | 57 | 52 | 52 | 52 | 52 | 50 |
| 5 | 75 | 62 | 52 | 46 | 73 | 60 | 52 | 45 | 58 | 51 | 45 | 56 | 50 | 44 | 54 | 49 | 44 | 44 | 44 | 44 | 42 |
| 6 | 68 | 54 | 45 | 38 | 66 | 53 | 44 | 38 | 51 | 43 | 37 | 49 | 42 | 37 | 48 | 42 | 37 | 37 | 37 | 37 | 35 |
| 7 | 62 | 48 | 38 | 32 | 60 | 47 | 38 | 32 | 45 | 37 | 31 | 44 | 36 | 31 | 42 | 36 | 31 | 31 | 31 | 31 | 29 |
| 8 | 56 | 42 | 33 | 27 | 55 | 41 | 33 | 27 | 40 | 32 | 26 | 39 | 32 | 26 | 37 | 31 | 26 | 26 | 26 | 26 | 24 |
| 9 | 52 | 37 | 29 | 23 | 50 | 37 | 28 | 23 | 36 | 28 | 22 | 34 | 27 | 22 | 33 | 27 | 22 | 22 | 22 | 22 | 20 |
| 10 | 48 | 33 | 25 | 19 | 46 | 33 | 25 | 19 | 32 | 24 | 19 | 31 | 24 | 19 | 30 | 24 | 19 | 19 | 19 | 19 | 17 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° | 135° | 180° |
|-----|--------|-------|------|------|-------|
| 0° | 5356 | 5356 | 5356 | 5356 | 5356 |
| 5° | 5722 | 5601 | 5256 | 4789 | 4668 |
| 10° | 6261 | 5561 | 4599 | 4127 | 4022 |
| 15° | 9147 | 5545 | 3851 | 3495 | 3619 |
| 20° | 23038 | 6066 | 2969 | 2969 | 3336 |
| 25° | 106947 | 7582 | 2318 | 2698 | 3078 |
| 30° | 340438 | 10480 | 1750 | 2545 | 3082 |
| 35° | 590725 | 12783 | 1430 | 2418 | 3133 |
| 40° | 688941 | 12747 | 1057 | 2428 | 3192 |
| 45° | 706542 | 9060 | 1145 | 2630 | 3459 |
| 50° | 657047 | 5064 | 911 | 2706 | 3992 |
| 55° | 558425 | 2642 | 1021 | 3033 | 4474 |
| 60° | 322504 | 689 | 1171 | 3272 | 4891 |
| 65° | 65813 | 0 | 1386 | 3871 | 5501 |
| 70° | 1007 | 352 | 1712 | 4431 | 6445 |
| 75° | 932 | 466 | 1797 | 4525 | 7652 |
| 80° | 694 | 694 | 2678 | 5356 | 8728 |
| 85° | 0 | 1383 | 5335 | 5335 | 10671 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 706542 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 2.8 | 0.4 |
| 10°-20° | 8.1 | 1.0 |
| 20°-30° | 46.3 | 5.8 |
| 30°-40° | 216.0 | 26.9 |
| 40°-50° | 305.5 | 38.1 |
| 50°-60° | 187.9 | 23.4 |
| 60°-70° | 28.6 | 3.6 |
| 70°-80° | 4.5 | 0.6 |
| 80°-90° | 2.3 | 0.3 |
| 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° | 57.1 | 7.1 |
| 0°-40° | 273.2 | 34.1 |
| 0°-60° | 766.6 | 95.6 |
| 0°-90° | 802.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 802.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|-----|-----|------|------|------|
| 0° | 31 | 31 | 31 | 31 | 31 | |
| 5° | 33 | 32 | 30 | 28 | 27 | 3 |
| 15° | 51 | 31 | 22 | 20 | 20 | 18 |
| 25° | 563 | 40 | 12 | 14 | 16 | 346 |
| 35° | 2810 | 61 | 7 | 12 | 15 | 1686 |
| 45° | 2901 | 37 | 5 | 11 | 14 | 2199 |
| 55° | 1860 | 9 | 3 | 10 | 15 | 1583 |
| 65° | 162 | 0 | 3 | 10 | 14 | 292 |
| 75° | 1 | 1 | 3 | 7 | 12 | 1 |
| 85° | 0 | 1 | 3 | 3 | 5 | 0 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P1317476

CATALOG NUMBER: LDSQA3D13R309827DE010 3LSQCA45R 1MMS

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° |
|-------|--------|--------|--------|--------|--------|--------|------|-------|------|--------|------|
| 0° | 31.1 | 31.1 | 31.1 | 31.1 | 31.1 | 31.1 | 31.1 | 31.1 | 31.1 | 31.1 | 31.1 |
| 2.5° | 31.8 | 31.8 | 32.4 | 32.4 | 31.8 | 32.4 | 32.4 | 32.4 | 31.1 | 30.4 | 29.0 |
| 5° | 33.1 | 33.1 | 33.1 | 33.8 | 33.1 | 33.1 | 32.4 | 31.8 | 30.4 | 28.4 | 27.7 |
| 7.5° | 34.5 | 34.5 | 33.8 | 34.5 | 33.8 | 33.8 | 32.4 | 31.1 | 29.0 | 27.0 | 25.7 |
| 10° | 35.8 | 35.8 | 35.1 | 35.1 | 34.5 | 34.5 | 31.8 | 29.7 | 26.3 | 24.3 | 23.6 |
| 12.5° | 39.9 | 39.9 | 39.2 | 38.5 | 37.2 | 36.5 | 31.1 | 27.7 | 23.6 | 21.6 | 20.9 |
| 15° | 51.3 | 50.7 | 49.3 | 47.3 | 43.9 | 43.2 | 31.1 | 25.7 | 21.6 | 19.6 | 19.6 |
| 17.5° | 70.3 | 69.6 | 67.6 | 62.2 | 56.1 | 54.0 | 31.1 | 23.0 | 18.9 | 17.6 | 17.6 |
| 20° | 125.7 | 120.3 | 110.1 | 96.6 | 82.4 | 75.0 | 33.1 | 20.3 | 16.2 | 15.5 | 16.2 |
| 21° | 164.2 | 158.8 | 145.9 | 123.6 | 98.6 | 90.5 | 34.5 | 19.6 | 15.5 | 14.9 | 16.2 |
| 22° | 223.6 | 217.5 | 191.2 | 160.8 | 125.0 | 110.8 | 35.1 | 18.2 | 14.2 | 14.2 | 15.5 |
| 23° | 312.1 | 302.0 | 257.4 | 208.8 | 156.1 | 135.8 | 36.5 | 17.6 | 13.5 | 14.2 | 14.9 |
| 24° | 408.7 | 399.9 | 349.3 | 276.3 | 199.3 | 170.2 | 37.8 | 16.9 | 12.8 | 12.8 | 14.2 |
| 25° | 562.8 | 552.6 | 462.8 | 348.6 | 252.7 | 204.7 | 39.9 | 15.5 | 12.2 | 12.2 | 14.2 |
| 26° | 762.0 | 715.4 | 595.9 | 449.3 | 311.4 | 256.7 | 41.9 | 14.9 | 11.5 | 12.2 | 13.5 |
| 27° | 951.2 | 912.7 | 778.3 | 576.3 | 385.1 | 315.5 | 44.6 | 14.2 | 10.8 | 11.5 | 13.5 |
| 28° | 1199.8 | 1145.8 | 976.2 | 728.9 | 485.1 | 381.7 | 47.3 | 13.5 | 10.1 | 11.5 | 12.8 |
| 29° | 1478.1 | 1402.5 | 1197.8 | 900.5 | 597.9 | 456.0 | 50.0 | 12.8 | 9.5 | 10.8 | 12.8 |
| 30° | 1711.9 | 1641.0 | 1436.3 | 1103.9 | 727.6 | 554.0 | 52.7 | 12.2 | 8.8 | 10.8 | 12.8 |
| 31° | 1986.2 | 1878.8 | 1630.8 | 1276.2 | 839.1 | 651.9 | 55.4 | 10.8 | 8.1 | 10.1 | 12.2 |
| 32° | 2208.4 | 2133.5 | 1870.0 | 1470.7 | 985.7 | 760.0 | 57.4 | 10.1 | 8.1 | 10.1 | 12.2 |
| 33° | 2423.3 | 2322.6 | 2067.9 | 1657.2 | 1118.1 | 870.8 | 59.5 | 9.5 | 7.4 | 9.5 | 12.2 |
| 34° | 2628.6 | 2536.1 | 2255.1 | 1807.8 | 1243.1 | 976.2 | 60.8 | 8.1 | 7.4 | 9.5 | 11.5 |
| 35° | 2809.7 | 2702.3 | 2419.9 | 1955.1 | 1371.4 | 1072.1 | 60.8 | 7.4 | 6.8 | 8.8 | 11.5 |
| 36° | 2927.2 | 2850.2 | 2563.1 | 2100.4 | 1487.6 | 1163.3 | 60.8 | 6.8 | 6.1 | 8.8 | 10.8 |
| 37° | 3027.9 | 2938.1 | 2678.0 | 2211.8 | 1573.4 | 1236.3 | 60.8 | 6.1 | 6.1 | 8.8 | 10.8 |
| 38° | 3069.1 | 2992.1 | 2757.0 | 2310.5 | 1653.8 | 1310.6 | 60.1 | 5.4 | 5.4 | 8.1 | 10.8 |
| 39° | 3085.3 | 3016.4 | 2816.5 | 2381.4 | 1713.2 | 1360.6 | 58.8 | 4.7 | 5.4 | 8.1 | 10.8 |
| 40° | 3064.4 | 3012.4 | 2846.9 | 2427.3 | 1760.5 | 1397.1 | 56.7 | 4.1 | 4.7 | 8.1 | 10.8 |
| 42.5° | 2977.9 | 2943.5 | 2840.1 | 2473.3 | 1801.1 | 1424.1 | 49.3 | 2.7 | 4.7 | 7.4 | 10.8 |
| 45° | 2900.9 | 2863.1 | 2771.9 | 2425.3 | 1748.4 | 1370.7 | 37.2 | 1.4 | 4.7 | 7.4 | 10.8 |
| 47.5° | 2751.6 | 2728.0 | 2656.3 | 2303.0 | 1632.9 | 1250.5 | 26.3 | 0.7 | 4.1 | 6.8 | 10.1 |
| 50° | 2452.3 | 2430.0 | 2335.4 | 1999.7 | 1404.5 | 1057.3 | 18.9 | 0.7 | 3.4 | 6.8 | 10.1 |
| 52.5° | 2184.1 | 2160.5 | 2024.7 | 1662.6 | 1078.9 | 774.9 | 12.2 | 0.7 | 3.4 | 6.8 | 10.1 |
| 55° | 1859.8 | 1818.6 | 1640.3 | 1262.0 | 764.7 | 519.5 | 8.8 | 0.7 | 3.4 | 6.1 | 10.1 |
| 57.5° | 1376.8 | 1316.7 | 1157.3 | 860.7 | 440.5 | 281.7 | 4.7 | 0.7 | 3.4 | 6.1 | 10.1 |
| 60° | 936.3 | 900.5 | 724.2 | 454.0 | 187.8 | 118.9 | 2.0 | 0.7 | 3.4 | 6.1 | 9.5 |
| 62.5° | 567.5 | 522.2 | 364.1 | 193.2 | 81.1 | 54.0 | 0.0 | 1.4 | 3.4 | 6.1 | 9.5 |
| 65° | 161.5 | 143.2 | 95.3 | 43.9 | 23.0 | 17.6 | 0.0 | 1.4 | 3.4 | 6.1 | 9.5 |
| 67.5° | 5.4 | 5.4 | 5.4 | 4.7 | 3.4 | 3.4 | 0.7 | 1.4 | 3.4 | 6.1 | 8.8 |
| 70° | 2.0 | 2.0 | 2.0 | 1.4 | 1.4 | 0.7 | 0.7 | 1.4 | 3.4 | 5.4 | 8.8 |
| 72.5° | 1.4 | 1.4 | 1.4 | 1.4 | 0.7 | 0.7 | 0.7 | 1.4 | 2.7 | 4.7 | 8.1 |
| 75° | 1.4 | 1.4 | 1.4 | 0.7 | 0.7 | 0.7 | 0.7 | 2.0 | 2.7 | 4.7 | 6.8 |
| 77.5° | 1.4 | 1.4 | 1.4 | 0.7 | 0.7 | 0.7 | 0.7 | 2.0 | 2.7 | 4.1 | 6.8 |
| 80° | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 2.0 | 2.7 | 4.1 | 5.4 |



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CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° |
|-------|-----|-----|-----|-----|-----|-------|-----|-------|-----|--------|------|
| 82.5° | 0.7 | 0.7 | 0.7 | 0.0 | 0.0 | 0.0 | 0.7 | 2.0 | 2.7 | 2.7 | 4.1 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.7 | 2.0 | 2.7 | 2.0 | 2.7 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.7 | 2.0 | 2.0 | 2.0 | 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 |



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CATALOG NUMBER: LDSQA3D13R309827DE010 3LSQCA45R 1MMS

CANDELA DISTRIBUTION (continued):

| | 157.5° | 180° |
|-------|--------|------|
| 0° | 31.1 | 31.1 |
| 2.5° | 29.0 | 29.0 |
| 5° | 27.0 | 27.0 |
| 7.5° | 25.0 | 25.0 |
| 10° | 23.0 | 23.0 |
| 12.5° | 21.6 | 21.6 |
| 15° | 19.6 | 20.3 |
| 17.5° | 18.2 | 18.9 |
| 20° | 17.6 | 18.2 |
| 21° | 17.6 | 18.2 |
| 22° | 16.9 | 17.6 |
| 23° | 16.9 | 17.6 |
| 24° | 16.2 | 16.9 |
| 25° | 15.5 | 16.2 |
| 26° | 15.5 | 16.2 |
| 27° | 15.5 | 16.2 |
| 28° | 14.9 | 16.2 |
| 29° | 14.9 | 15.5 |
| 30° | 14.9 | 15.5 |
| 31° | 14.2 | 15.5 |
| 32° | 14.2 | 15.5 |
| 33° | 14.2 | 14.9 |
| 34° | 13.5 | 14.9 |
| 35° | 13.5 | 14.9 |
| 36° | 13.5 | 14.9 |
| 37° | 13.5 | 14.2 |
| 38° | 13.5 | 14.9 |
| 39° | 13.5 | 14.2 |
| 40° | 13.5 | 14.2 |
| 42.5° | 13.5 | 14.2 |
| 45° | 13.5 | 14.2 |
| 47.5° | 13.5 | 14.9 |
| 50° | 13.5 | 14.9 |
| 52.5° | 13.5 | 14.9 |
| 55° | 13.5 | 14.9 |
| 57.5° | 13.5 | 14.2 |
| 60° | 13.5 | 14.2 |
| 62.5° | 12.8 | 14.2 |
| 65° | 12.8 | 13.5 |
| 67.5° | 12.8 | 13.5 |
| 70° | 12.2 | 12.8 |
| 72.5° | 11.5 | 12.2 |
| 75° | 10.1 | 11.5 |
| 77.5° | 9.5 | 10.1 |
| 80° | 8.1 | 8.8 |



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CANDELA DISTRIBUTION (continued):

| | 157.5° | 180° |
|-------|--------|------|
| 82.5° | 6.8 | 6.8 |
| 85° | 4.7 | 5.4 |
| 87.5° | 2.7 | 2.7 |
| 90° | 0.0 | 0.0 |

(END OF REPORT)