

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: P1313196

Luminaire Tested: LDSQA3D02R359727DE010 3LSQCA45R 1MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1313196
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-77)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D02R359727DE010 3LSQCA45R 1MB
Description: 3in Adjustable LED luminaire with, R35 optic, 2700K CCT AND, 97CRI , 3LSQCA45R 1MB TRIM
Light Source: -
Ballast/Driver: -

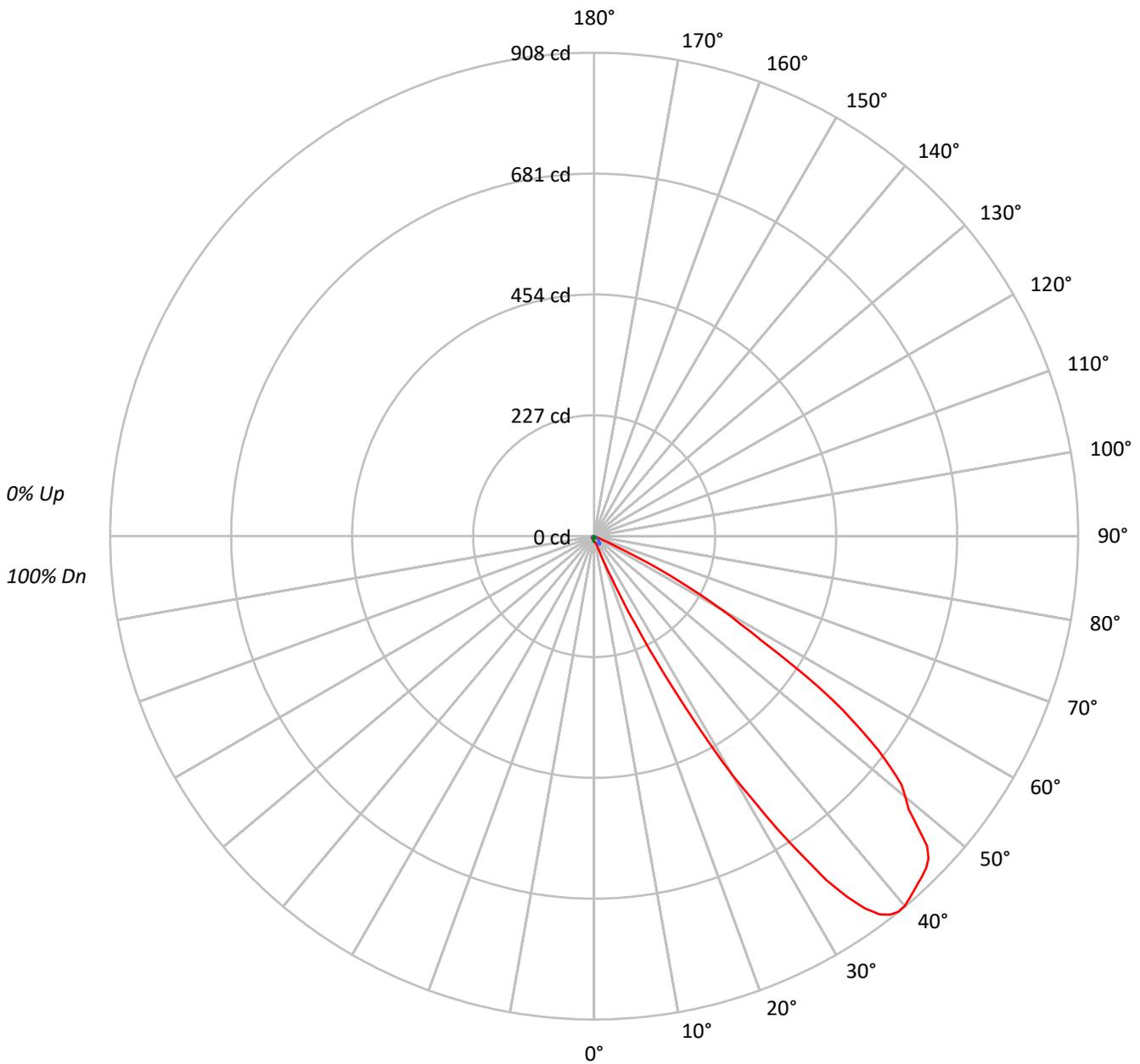
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 226.0 lumens
Efficiency: N/A
Efficacy: 62.8 lumens/watt
Spacing Criteria (0/90/45): 4.01 / 0.66 / 1.41
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 3.6
Input Voltage (V): NR
Input Current (A_{in}): 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: P1313196
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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 | 0 |
| RCR | | | | | | | | | | | | | | | | | | |
| 0 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |
| 1 | 110 | 106 | 102 | 99 | 107 | 104 | 100 | 97 | 100 | 97 | 94 | 96 | 93 | 91 | 92 | 90 | 89 | 87 |
| 2 | 100 | 93 | 86 | 81 | 98 | 91 | 85 | 80 | 87 | 83 | 78 | 84 | 80 | 77 | 81 | 78 | 75 | 73 |
| 3 | 91 | 81 | 73 | 67 | 89 | 79 | 72 | 66 | 76 | 70 | 65 | 74 | 68 | 64 | 71 | 67 | 63 | 61 |
| 4 | 83 | 71 | 62 | 55 | 80 | 69 | 61 | 55 | 67 | 60 | 54 | 64 | 58 | 53 | 62 | 57 | 52 | 50 |
| 5 | 75 | 62 | 52 | 46 | 73 | 61 | 52 | 45 | 58 | 51 | 45 | 56 | 50 | 44 | 55 | 49 | 44 | 42 |
| 6 | 68 | 54 | 45 | 38 | 66 | 53 | 44 | 38 | 51 | 43 | 38 | 50 | 43 | 37 | 48 | 42 | 37 | 35 |
| 7 | 62 | 48 | 38 | 32 | 60 | 47 | 38 | 32 | 45 | 37 | 32 | 44 | 37 | 31 | 42 | 36 | 31 | 29 |
| 8 | 57 | 42 | 33 | 27 | 55 | 41 | 33 | 27 | 40 | 32 | 27 | 39 | 32 | 26 | 38 | 31 | 26 | 24 |
| 9 | 52 | 38 | 29 | 23 | 50 | 37 | 29 | 23 | 36 | 28 | 23 | 35 | 28 | 22 | 34 | 27 | 22 | 20 |
| 10 | 48 | 34 | 25 | 19 | 46 | 33 | 25 | 19 | 32 | 25 | 19 | 31 | 24 | 19 | 30 | 24 | 19 | 17 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° | 135° | 180° |
|-----|--------|------|------|------|------|
| 0° | 1791 | 1791 | 1791 | 1791 | 1791 |
| 5° | 1936 | 1902 | 1763 | 1591 | 1556 |
| 10° | 2029 | 1854 | 1574 | 1364 | 1364 |
| 15° | 2906 | 1819 | 1266 | 1159 | 1195 |
| 20° | 7294 | 1943 | 1008 | 1008 | 1118 |
| 25° | 33844 | 2489 | 779 | 931 | 1045 |
| 30° | 102893 | 3361 | 616 | 855 | 1054 |
| 35° | 173894 | 3911 | 505 | 820 | 1030 |
| 40° | 203822 | 3844 | 405 | 832 | 1102 |
| 45° | 214649 | 2728 | 341 | 901 | 1193 |
| 50° | 204324 | 1634 | 322 | 938 | 1313 |
| 55° | 171209 | 661 | 360 | 1051 | 1531 |
| 60° | 95859 | 138 | 413 | 1206 | 1688 |
| 65° | 16545 | 82 | 408 | 1345 | 1915 |
| 70° | 302 | 101 | 504 | 1460 | 2165 |
| 75° | 266 | 133 | 665 | 1597 | 2462 |
| 80° | 198 | 198 | 793 | 1785 | 2876 |
| 85° | 0 | 395 | 1581 | 1976 | 3162 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 46°
 Luminance: 216190 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 0.9 | 0.4 |
| 10°-20° | 2.7 | 1.2 |
| 20°-30° | 13.9 | 6.1 |
| 30°-40° | 59.9 | 26.5 |
| 40°-50° | 85.4 | 37.8 |
| 50°-60° | 52.9 | 23.4 |
| 60°-70° | 8.0 | 3.6 |
| 70°-80° | 1.5 | 0.7 |
| 80°-90° | 0.7 | 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° | 17.5 | 7.7 |
| 0°-40° | 77.4 | 34.2 |
| 0°-60° | 215.7 | 95.4 |
| 0°-90° | 226.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 226.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0° | 10 | 10 | 10 | 10 | 10 | |
| 5° | 11 | 11 | 10 | 9 | 9 | 1 |
| 15° | 16 | 10 | 7 | 6 | 7 | 6 |
| 25° | 178 | 13 | 4 | 5 | 6 | 107 |
| 35° | 827 | 19 | 2 | 4 | 5 | 497 |
| 45° | 881 | 11 | 1 | 4 | 5 | 666 |
| 55° | 570 | 2 | 1 | 4 | 5 | 486 |
| 65° | 41 | 0 | 1 | 3 | 5 | 83 |
| 75° | 0 | 0 | 1 | 2 | 4 | 0 |
| 85° | 0 | 0 | 1 | 1 | 2 | 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° | 10.4 | 10.4 | 10.4 | 10.4 | 10.4 | 10.4 | 10.4 | 10.4 | 10.4 | 10.4 | 10.4 |
| 2.5° | 10.8 | 10.8 | 10.8 | 10.8 | 10.8 | 10.8 | 10.8 | 10.8 | 10.8 | 10.4 | 10.2 |
| 5° | 11.2 | 11.2 | 11.0 | 11.0 | 11.0 | 11.0 | 11.0 | 11.0 | 10.6 | 10.2 | 9.6 |
| 7.5° | 11.4 | 11.4 | 11.2 | 11.2 | 11.2 | 11.2 | 11.0 | 10.8 | 10.4 | 9.6 | 9.0 |
| 10° | 11.6 | 11.6 | 11.6 | 11.6 | 11.4 | 11.2 | 11.0 | 10.6 | 10.0 | 9.0 | 8.4 |
| 12.5° | 13.1 | 13.1 | 12.9 | 12.4 | 12.0 | 11.6 | 11.2 | 10.4 | 9.2 | 8.2 | 7.5 |
| 15° | 16.3 | 16.1 | 15.7 | 15.1 | 14.3 | 13.3 | 12.4 | 10.2 | 8.4 | 7.1 | 6.7 |
| 17.5° | 22.8 | 22.4 | 21.8 | 19.8 | 18.0 | 16.1 | 14.5 | 10.2 | 7.5 | 6.3 | 5.9 |
| 20° | 39.8 | 40.0 | 35.7 | 30.8 | 26.7 | 22.2 | 18.2 | 10.6 | 6.7 | 5.5 | 5.3 |
| 22.5° | 83.0 | 79.8 | 69.6 | 57.7 | 44.1 | 34.1 | 25.7 | 11.6 | 5.9 | 4.7 | 4.7 |
| 25° | 178.1 | 165.7 | 141.0 | 106.5 | 75.1 | 53.2 | 37.3 | 13.1 | 5.3 | 4.1 | 4.3 |
| 27.5° | 325.2 | 314.0 | 264.4 | 199.1 | 132.2 | 80.4 | 50.6 | 14.9 | 4.7 | 3.5 | 3.9 |
| 30° | 517.4 | 486.4 | 421.7 | 326.4 | 220.9 | 123.0 | 67.9 | 16.9 | 3.9 | 3.1 | 3.7 |
| 31° | 577.4 | 563.1 | 484.3 | 377.6 | 258.9 | 146.1 | 75.3 | 17.5 | 3.7 | 3.1 | 3.5 |
| 32° | 648.6 | 623.3 | 552.7 | 433.7 | 297.5 | 166.7 | 84.1 | 18.2 | 3.5 | 2.7 | 3.5 |
| 33° | 712.2 | 687.7 | 601.8 | 483.1 | 336.4 | 190.1 | 93.4 | 18.4 | 3.1 | 2.7 | 3.3 |
| 34° | 779.1 | 745.7 | 660.6 | 534.7 | 376.4 | 215.4 | 102.0 | 18.6 | 2.9 | 2.4 | 3.3 |
| 35° | 827.1 | 793.6 | 711.2 | 575.5 | 410.9 | 237.9 | 111.8 | 18.6 | 2.7 | 2.4 | 3.1 |
| 36° | 864.2 | 834.8 | 754.8 | 617.5 | 445.2 | 258.1 | 119.6 | 18.6 | 2.2 | 2.2 | 3.1 |
| 37° | 889.7 | 861.8 | 784.2 | 653.7 | 471.3 | 276.0 | 126.5 | 18.6 | 2.0 | 2.2 | 3.1 |
| 38° | 902.1 | 878.9 | 812.6 | 680.0 | 496.6 | 290.1 | 132.0 | 18.2 | 1.8 | 2.0 | 2.9 |
| 39° | 907.5 | 888.5 | 829.9 | 702.2 | 515.5 | 302.3 | 136.1 | 17.7 | 1.6 | 2.0 | 2.9 |
| 40° | 906.6 | 890.1 | 839.7 | 717.5 | 530.8 | 310.7 | 138.3 | 17.1 | 1.4 | 1.8 | 2.9 |
| 41° | 901.9 | 887.7 | 844.8 | 730.6 | 540.0 | 316.4 | 138.9 | 16.5 | 1.2 | 1.8 | 2.7 |
| 42° | 896.6 | 883.6 | 846.5 | 737.5 | 545.9 | 318.3 | 137.3 | 15.7 | 1.2 | 1.6 | 2.7 |
| 43° | 891.1 | 879.1 | 846.5 | 739.8 | 547.4 | 317.0 | 134.6 | 14.3 | 1.0 | 1.6 | 2.7 |
| 44° | 886.6 | 875.2 | 843.8 | 739.1 | 544.3 | 312.3 | 129.8 | 12.6 | 0.8 | 1.6 | 2.7 |
| 45° | 881.3 | 870.1 | 840.3 | 735.3 | 538.4 | 304.4 | 123.6 | 11.2 | 0.6 | 1.4 | 2.7 |
| 46° | 872.0 | 863.2 | 834.2 | 727.3 | 529.0 | 293.4 | 115.9 | 10.2 | 0.4 | 1.4 | 2.4 |
| 47° | 853.8 | 846.2 | 822.4 | 715.5 | 516.6 | 280.3 | 107.9 | 9.2 | 0.4 | 1.4 | 2.4 |
| 48° | 817.3 | 817.1 | 798.7 | 693.4 | 496.8 | 264.0 | 99.6 | 8.2 | 0.4 | 1.4 | 2.4 |
| 49° | 782.0 | 778.3 | 755.5 | 654.7 | 468.4 | 244.4 | 90.8 | 7.3 | 0.2 | 1.4 | 2.4 |
| 50° | 762.6 | 754.6 | 717.1 | 609.0 | 432.1 | 217.3 | 81.4 | 6.1 | 0.2 | 1.2 | 2.4 |
| 51° | 742.4 | 731.0 | 686.7 | 567.8 | 388.8 | 191.2 | 71.2 | 4.9 | 0.2 | 1.2 | 2.2 |
| 52° | 705.9 | 695.1 | 645.5 | 528.4 | 346.8 | 164.4 | 61.4 | 4.1 | 0.2 | 1.2 | 2.4 |
| 53° | 666.5 | 651.0 | 597.1 | 485.1 | 309.9 | 140.8 | 51.4 | 3.5 | 0.2 | 1.2 | 2.2 |
| 54° | 616.9 | 610.0 | 548.2 | 432.1 | 266.6 | 117.9 | 42.2 | 2.9 | 0.2 | 1.2 | 2.2 |
| 55° | 570.2 | 560.0 | 495.8 | 377.8 | 227.5 | 96.7 | 35.3 | 2.2 | 0.2 | 1.2 | 2.2 |
| 56° | 510.6 | 495.3 | 435.2 | 328.1 | 187.7 | 77.9 | 29.8 | 1.8 | 0.2 | 1.2 | 2.2 |
| 57° | 439.6 | 423.3 | 375.8 | 272.8 | 147.3 | 59.4 | 24.9 | 1.4 | 0.2 | 1.2 | 2.2 |
| 58° | 371.9 | 357.8 | 306.8 | 210.5 | 111.0 | 41.2 | 20.6 | 1.0 | 0.2 | 1.0 | 2.2 |
| 59° | 321.3 | 305.8 | 255.2 | 162.0 | 77.1 | 30.4 | 15.5 | 0.8 | 0.2 | 1.2 | 2.2 |
| 60° | 278.3 | 258.3 | 205.4 | 125.5 | 55.1 | 21.8 | 11.4 | 0.4 | 0.4 | 1.2 | 2.2 |
| 62.5° | 160.4 | 141.6 | 98.1 | 51.0 | 22.6 | 11.2 | 5.5 | 0.2 | 0.4 | 1.2 | 2.2 |
| 65° | 40.6 | 36.1 | 23.5 | 11.0 | 6.3 | 3.9 | 2.0 | 0.2 | 0.4 | 1.0 | 2.0 |



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CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 45° | 67.5° | 90° | 112.5° |
|-------|-----|-----|-----|-----|-----|-----|-----|-----|-------|-----|--------|
| 67.5° | 1.4 | 1.4 | 1.4 | 1.2 | 1.0 | 0.8 | 0.4 | 0.2 | 0.4 | 1.0 | 2.0 |
| 70° | 0.6 | 0.6 | 0.6 | 0.4 | 0.4 | 0.2 | 0.2 | 0.2 | 0.4 | 1.0 | 1.8 |
| 72.5° | 0.4 | 0.4 | 0.4 | 0.4 | 0.2 | 0.2 | 0.2 | 0.2 | 0.6 | 1.0 | 1.6 |
| 75° | 0.4 | 0.4 | 0.4 | 0.4 | 0.2 | 0.2 | 0.2 | 0.2 | 0.6 | 1.0 | 1.6 |
| 77.5° | 0.4 | 0.4 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.6 | 0.8 | 1.4 |
| 80° | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.6 | 0.8 | 1.2 |
| 82.5° | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.6 | 0.8 | 1.0 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.2 | 0.0 | 0.2 | 0.6 | 0.8 | 0.8 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.2 | 0.6 | 0.8 | 0.6 |
| 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° | 10.4 | 10.4 | 10.4 |
| 2.5° | 9.8 | 9.8 | 9.8 |
| 5° | 9.2 | 9.2 | 9.0 |
| 7.5° | 8.6 | 8.4 | 8.4 |
| 10° | 7.8 | 7.8 | 7.8 |
| 12.5° | 7.1 | 7.1 | 7.1 |
| 15° | 6.5 | 6.7 | 6.7 |
| 17.5° | 5.9 | 6.3 | 6.3 |
| 20° | 5.5 | 5.9 | 6.1 |
| 22.5° | 5.1 | 5.5 | 5.7 |
| 25° | 4.9 | 5.3 | 5.5 |
| 27.5° | 4.5 | 5.1 | 5.5 |
| 30° | 4.3 | 4.9 | 5.3 |
| 31° | 4.3 | 4.9 | 5.1 |
| 32° | 4.1 | 4.9 | 5.1 |
| 33° | 4.1 | 4.9 | 5.1 |
| 34° | 4.1 | 4.7 | 5.1 |
| 35° | 3.9 | 4.7 | 4.9 |
| 36° | 3.9 | 4.7 | 4.9 |
| 37° | 3.9 | 4.7 | 5.1 |
| 38° | 3.9 | 4.7 | 4.9 |
| 39° | 3.7 | 4.7 | 4.9 |
| 40° | 3.7 | 4.7 | 4.9 |
| 41° | 3.7 | 4.7 | 4.9 |
| 42° | 3.7 | 4.7 | 4.9 |
| 43° | 3.7 | 4.7 | 4.9 |
| 44° | 3.7 | 4.5 | 4.9 |
| 45° | 3.7 | 4.5 | 4.9 |
| 46° | 3.7 | 4.7 | 4.9 |
| 47° | 3.7 | 4.7 | 5.1 |
| 48° | 3.7 | 4.5 | 4.9 |
| 49° | 3.5 | 4.5 | 4.9 |
| 50° | 3.5 | 4.5 | 4.9 |
| 51° | 3.5 | 4.7 | 5.1 |
| 52° | 3.5 | 4.7 | 5.1 |
| 53° | 3.5 | 4.7 | 5.1 |
| 54° | 3.5 | 4.7 | 4.9 |
| 55° | 3.5 | 4.7 | 5.1 |
| 56° | 3.5 | 4.7 | 4.9 |
| 57° | 3.5 | 4.7 | 4.9 |
| 58° | 3.5 | 4.5 | 4.9 |
| 59° | 3.5 | 4.5 | 4.9 |
| 60° | 3.5 | 4.5 | 4.9 |
| 62.5° | 3.3 | 4.5 | 4.9 |
| 65° | 3.3 | 4.3 | 4.7 |



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CANDELA DISTRIBUTION (continued):

| | 135° | 157.5° | 180° |
|-------|------|--------|------|
| 67.5° | 3.1 | 4.3 | 4.5 |
| 70° | 2.9 | 4.1 | 4.3 |
| 72.5° | 2.7 | 3.9 | 4.1 |
| 75° | 2.4 | 3.5 | 3.7 |
| 77.5° | 2.0 | 3.1 | 3.5 |
| 80° | 1.8 | 2.7 | 2.9 |
| 82.5° | 1.4 | 2.2 | 2.4 |
| 85° | 1.0 | 1.6 | 1.6 |
| 87.5° | 0.4 | 0.8 | 0.8 |
| 90° | 0.0 | 0.0 | 0.0 |

(END OF REPORT)