

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: P1307455

Luminaire Tested: LDSQA3D20R309024D010 3LSQCA45R 1MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1307455
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: LDSQA3D20R309024D010 3LSQCA45R 1MMS
Description: 3in Adjustable LED luminaire with, R30 optic, 2400K CCT AND, 90CRI , 3LSQCA45R 1MMS TRII
Light Source: -
Ballast/Driver: -

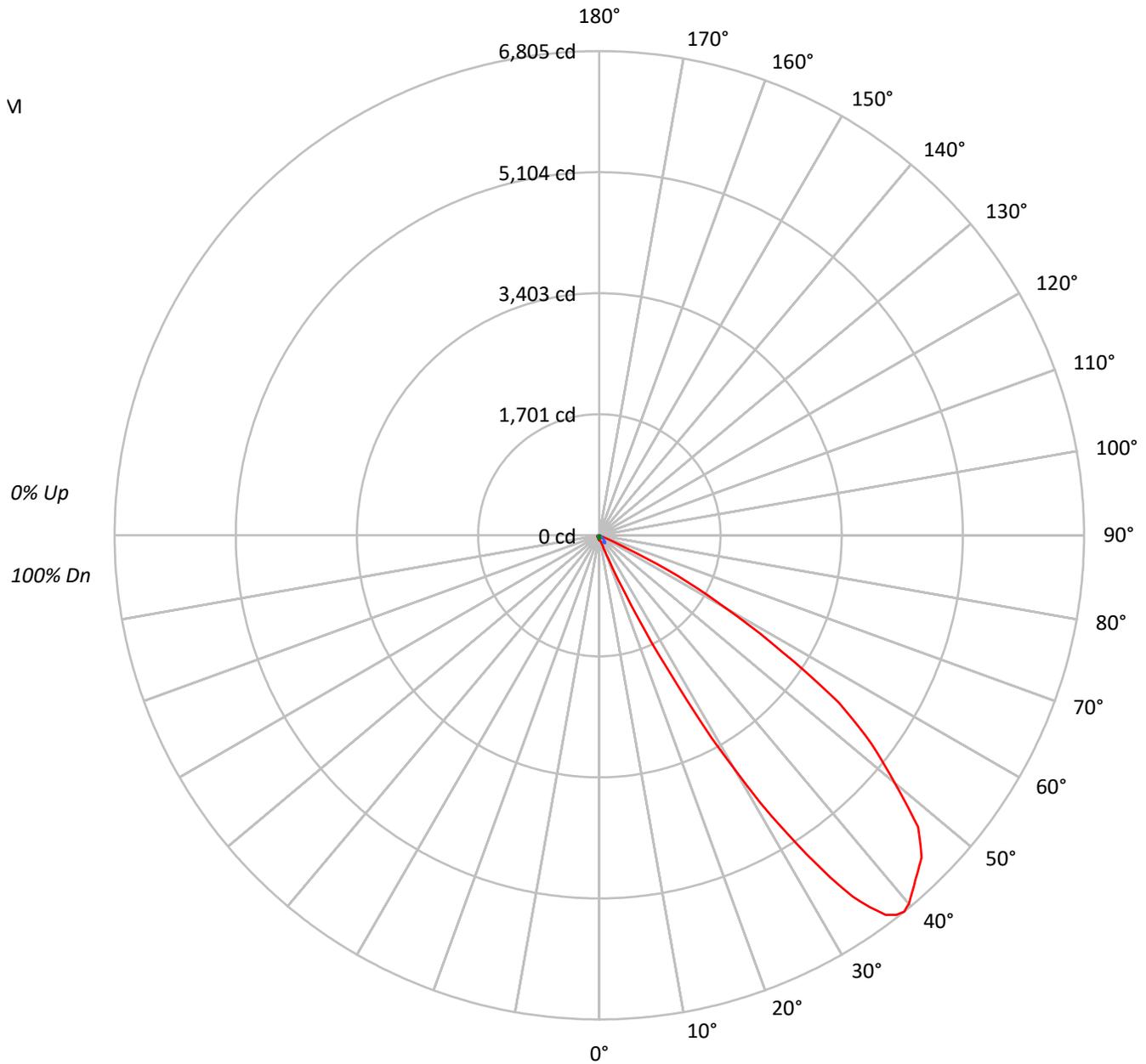
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1769.0 lumens
Efficiency: N/A
Efficacy: 61.4 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): 28.8
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

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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° | 11797 | 11797 | 11797 | 11797 | 11797 |
| 5° | 12620 | 12361 | 11600 | 10563 | 10304 |
| 10° | 13815 | 12242 | 10160 | 9129 | 8866 |
| 15° | 20183 | 12213 | 8505 | 7702 | 7970 |
| 20° | 50804 | 13379 | 6561 | 6561 | 7368 |
| 25° | 235880 | 16703 | 5093 | 5948 | 6803 |
| 30° | 750916 | 23108 | 3858 | 5628 | 6821 |
| 35° | 1302994 | 28194 | 3133 | 5319 | 6896 |
| 40° | 1519608 | 28148 | 2338 | 5351 | 7037 |
| 45° | 1558440 | 19972 | 2533 | 5797 | 7623 |
| 50° | 1449292 | 11173 | 2009 | 6002 | 8788 |
| 55° | 1231761 | 5825 | 2252 | 6726 | 9849 |
| 60° | 711383 | 1550 | 2583 | 7199 | 10781 |
| 65° | 145116 | 0 | 3056 | 8517 | 12144 |
| 70° | 2266 | 755 | 3777 | 9769 | 14250 |
| 75° | 1996 | 998 | 3993 | 9915 | 16835 |
| 80° | 1488 | 1488 | 5951 | 11802 | 19241 |
| 85° | 0 | 2964 | 11856 | 11856 | 23515 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1558440 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 6.2 | 0.4 |
| 10°-20° | 17.8 | 1.0 |
| 20°-30° | 102.0 | 5.8 |
| 30°-40° | 476.5 | 26.9 |
| 40°-50° | 673.8 | 38.1 |
| 50°-60° | 414.5 | 23.4 |
| 60°-70° | 63.1 | 3.6 |
| 70°-80° | 10.0 | 0.6 |
| 80°-90° | 5.0 | 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° | 126.0 | 7.1 |
| 0°-40° | 602.5 | 34.1 |
| 0°-60° | 1690.9 | 95.6 |
| 0°-90° | 1769.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 1769.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|-----|-----|------|------|------|
| 0° | 68 | 68 | 68 | 68 | 68 | |
| 5° | 73 | 72 | 67 | 61 | 60 | 7 |
| 15° | 113 | 68 | 48 | 43 | 45 | 40 |
| 25° | 1241 | 88 | 27 | 31 | 36 | 764 |
| 35° | 6198 | 134 | 15 | 25 | 33 | 3719 |
| 45° | 6399 | 82 | 10 | 24 | 31 | 4851 |
| 55° | 4102 | 19 | 8 | 22 | 33 | 3491 |
| 65° | 356 | 0 | 8 | 21 | 30 | 645 |
| 75° | 3 | 2 | 6 | 15 | 25 | 3 |
| 85° | 0 | 2 | 6 | 6 | 12 | 1 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P1307455

CATALOG NUMBER: LDSQA3D20R309024D010 3LSQCA45R 1MMS

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° |
|-------|--------|--------|--------|--------|--------|--------|-------|-------|------|--------|------|
| 0° | 68.5 | 68.5 | 68.5 | 68.5 | 68.5 | 68.5 | 68.5 | 68.5 | 68.5 | 68.5 | 68.5 |
| 2.5° | 70.0 | 70.0 | 71.5 | 71.5 | 70.0 | 71.5 | 71.5 | 71.5 | 68.5 | 67.1 | 64.1 |
| 5° | 73.0 | 73.0 | 73.0 | 74.5 | 73.0 | 73.0 | 71.5 | 70.0 | 67.1 | 62.6 | 61.1 |
| 7.5° | 76.0 | 76.0 | 74.5 | 76.0 | 74.5 | 74.5 | 71.5 | 68.5 | 64.1 | 59.6 | 56.6 |
| 10° | 79.0 | 79.0 | 77.5 | 77.5 | 76.0 | 76.0 | 70.0 | 65.6 | 58.1 | 53.6 | 52.2 |
| 12.5° | 87.9 | 87.9 | 86.4 | 84.9 | 82.0 | 80.5 | 68.5 | 61.1 | 52.2 | 47.7 | 46.2 |
| 15° | 113.2 | 111.8 | 108.8 | 104.3 | 96.9 | 95.4 | 68.5 | 56.6 | 47.7 | 43.2 | 43.2 |
| 17.5° | 155.0 | 153.5 | 149.0 | 137.1 | 123.7 | 119.2 | 68.5 | 50.7 | 41.7 | 38.7 | 38.7 |
| 20° | 277.2 | 265.2 | 242.9 | 213.1 | 181.8 | 165.4 | 73.0 | 44.7 | 35.8 | 34.3 | 35.8 |
| 21° | 362.1 | 350.2 | 321.9 | 272.7 | 217.6 | 199.7 | 76.0 | 43.2 | 34.3 | 32.8 | 35.8 |
| 22° | 493.2 | 479.8 | 421.7 | 354.7 | 275.7 | 244.4 | 77.5 | 40.2 | 31.3 | 31.3 | 34.3 |
| 23° | 688.4 | 666.1 | 567.7 | 460.5 | 344.2 | 299.5 | 80.5 | 38.7 | 29.8 | 31.3 | 32.8 |
| 24° | 901.5 | 882.2 | 770.4 | 609.5 | 439.6 | 375.5 | 83.4 | 37.3 | 28.3 | 28.3 | 31.3 |
| 25° | 1241.3 | 1218.9 | 1020.7 | 768.9 | 557.3 | 451.5 | 87.9 | 34.3 | 26.8 | 26.8 | 31.3 |
| 26° | 1680.9 | 1578.0 | 1314.3 | 990.9 | 687.0 | 566.2 | 92.4 | 32.8 | 25.3 | 26.8 | 29.8 |
| 27° | 2098.1 | 2013.2 | 1716.6 | 1271.1 | 849.4 | 695.9 | 98.3 | 31.3 | 23.8 | 25.3 | 29.8 |
| 28° | 2646.5 | 2527.3 | 2153.2 | 1607.9 | 1069.9 | 841.9 | 104.3 | 29.8 | 22.4 | 25.3 | 28.3 |
| 29° | 3260.4 | 3093.5 | 2642.0 | 1986.3 | 1318.8 | 1005.8 | 110.3 | 28.3 | 20.9 | 23.8 | 28.3 |
| 30° | 3776.0 | 3619.5 | 3168.0 | 2434.9 | 1604.9 | 1221.9 | 116.2 | 26.8 | 19.4 | 23.8 | 28.3 |
| 31° | 4381.0 | 4144.1 | 3597.2 | 2814.9 | 1850.7 | 1438.0 | 122.2 | 23.8 | 17.9 | 22.4 | 26.8 |
| 32° | 4871.2 | 4705.8 | 4124.7 | 3244.0 | 2174.1 | 1676.4 | 126.7 | 22.4 | 17.9 | 22.4 | 26.8 |
| 33° | 5345.1 | 5123.1 | 4561.3 | 3655.3 | 2466.2 | 1920.8 | 131.1 | 20.9 | 16.4 | 20.9 | 26.8 |
| 34° | 5798.1 | 5594.0 | 4974.1 | 3987.6 | 2741.8 | 2153.2 | 134.1 | 17.9 | 16.4 | 20.9 | 25.3 |
| 35° | 6197.5 | 5960.5 | 5337.6 | 4312.4 | 3025.0 | 2364.8 | 134.1 | 16.4 | 14.9 | 19.4 | 25.3 |
| 36° | 6456.7 | 6286.9 | 5653.6 | 4632.8 | 3281.3 | 2566.0 | 134.1 | 14.9 | 13.4 | 19.4 | 23.8 |
| 37° | 6678.8 | 6480.6 | 5906.9 | 4878.7 | 3470.5 | 2726.9 | 134.1 | 13.4 | 13.4 | 19.4 | 23.8 |
| 38° | 6769.7 | 6599.8 | 6081.2 | 5096.2 | 3647.8 | 2890.9 | 132.6 | 11.9 | 11.9 | 17.9 | 23.8 |
| 39° | 6805.4 | 6653.4 | 6212.4 | 5252.7 | 3779.0 | 3001.1 | 129.6 | 10.4 | 11.9 | 17.9 | 23.8 |
| 40° | 6759.2 | 6644.5 | 6279.4 | 5354.0 | 3883.3 | 3081.6 | 125.2 | 8.9 | 10.4 | 17.9 | 23.8 |
| 42.5° | 6568.5 | 6492.5 | 6264.5 | 5455.4 | 3972.7 | 3141.2 | 108.8 | 6.0 | 10.4 | 16.4 | 23.8 |
| 45° | 6398.6 | 6315.2 | 6114.0 | 5349.6 | 3856.5 | 3023.5 | 82.0 | 3.0 | 10.4 | 16.4 | 23.8 |
| 47.5° | 6069.3 | 6017.1 | 5859.2 | 5079.9 | 3601.6 | 2758.2 | 58.1 | 1.5 | 8.9 | 14.9 | 22.4 |
| 50° | 5409.2 | 5360.0 | 5151.4 | 4410.8 | 3098.0 | 2332.1 | 41.7 | 1.5 | 7.5 | 14.9 | 22.4 |
| 52.5° | 4817.6 | 4765.4 | 4465.9 | 3667.2 | 2379.7 | 1709.2 | 26.8 | 1.5 | 7.5 | 14.9 | 22.4 |
| 55° | 4102.3 | 4011.4 | 3618.0 | 2783.6 | 1686.8 | 1145.9 | 19.4 | 1.5 | 7.5 | 13.4 | 22.4 |
| 57.5° | 3036.9 | 2904.3 | 2552.6 | 1898.4 | 971.6 | 621.4 | 10.4 | 1.5 | 7.5 | 13.4 | 22.4 |
| 60° | 2065.3 | 1986.3 | 1597.4 | 1001.4 | 414.3 | 262.3 | 4.5 | 1.5 | 7.5 | 13.4 | 20.9 |
| 62.5° | 1251.7 | 1151.9 | 803.2 | 426.2 | 178.8 | 119.2 | 0.0 | 3.0 | 7.5 | 13.4 | 20.9 |
| 65° | 356.1 | 315.9 | 210.1 | 96.9 | 50.7 | 38.7 | 0.0 | 3.0 | 7.5 | 13.4 | 20.9 |
| 67.5° | 11.9 | 11.9 | 11.9 | 10.4 | 7.5 | 7.5 | 1.5 | 3.0 | 7.5 | 13.4 | 19.4 |
| 70° | 4.5 | 4.5 | 4.5 | 3.0 | 3.0 | 1.5 | 1.5 | 3.0 | 7.5 | 11.9 | 19.4 |
| 72.5° | 3.0 | 3.0 | 3.0 | 3.0 | 1.5 | 1.5 | 1.5 | 3.0 | 6.0 | 10.4 | 17.9 |
| 75° | 3.0 | 3.0 | 3.0 | 1.5 | 1.5 | 1.5 | 1.5 | 4.5 | 6.0 | 10.4 | 14.9 |
| 77.5° | 3.0 | 3.0 | 3.0 | 1.5 | 1.5 | 1.5 | 1.5 | 4.5 | 6.0 | 8.9 | 14.9 |
| 80° | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 4.5 | 6.0 | 8.9 | 11.9 |



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CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° |
|-------|-----|-----|-----|-----|-----|-------|-----|-------|-----|--------|------|
| 82.5° | 1.5 | 1.5 | 1.5 | 0.0 | 0.0 | 0.0 | 1.5 | 4.5 | 6.0 | 6.0 | 8.9 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.5 | 4.5 | 6.0 | 4.5 | 6.0 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.5 | 4.5 | 4.5 | 4.5 | 3.0 |
| 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: P1307455

CATALOG NUMBER: LDSQA3D20R309024D010 3LSQCA45R 1MMS

CANDELA DISTRIBUTION (continued):

| | 157.5° | 180° |
|-------|--------|------|
| 0° | 68.5 | 68.5 |
| 2.5° | 64.1 | 64.1 |
| 5° | 59.6 | 59.6 |
| 7.5° | 55.1 | 55.1 |
| 10° | 50.7 | 50.7 |
| 12.5° | 47.7 | 47.7 |
| 15° | 43.2 | 44.7 |
| 17.5° | 40.2 | 41.7 |
| 20° | 38.7 | 40.2 |
| 21° | 38.7 | 40.2 |
| 22° | 37.3 | 38.7 |
| 23° | 37.3 | 38.7 |
| 24° | 35.8 | 37.3 |
| 25° | 34.3 | 35.8 |
| 26° | 34.3 | 35.8 |
| 27° | 34.3 | 35.8 |
| 28° | 32.8 | 35.8 |
| 29° | 32.8 | 34.3 |
| 30° | 32.8 | 34.3 |
| 31° | 31.3 | 34.3 |
| 32° | 31.3 | 34.3 |
| 33° | 31.3 | 32.8 |
| 34° | 29.8 | 32.8 |
| 35° | 29.8 | 32.8 |
| 36° | 29.8 | 32.8 |
| 37° | 29.8 | 31.3 |
| 38° | 29.8 | 32.8 |
| 39° | 29.8 | 31.3 |
| 40° | 29.8 | 31.3 |
| 42.5° | 29.8 | 31.3 |
| 45° | 29.8 | 31.3 |
| 47.5° | 29.8 | 32.8 |
| 50° | 29.8 | 32.8 |
| 52.5° | 29.8 | 32.8 |
| 55° | 29.8 | 32.8 |
| 57.5° | 29.8 | 31.3 |
| 60° | 29.8 | 31.3 |
| 62.5° | 28.3 | 31.3 |
| 65° | 28.3 | 29.8 |
| 67.5° | 28.3 | 29.8 |
| 70° | 26.8 | 28.3 |
| 72.5° | 25.3 | 26.8 |
| 75° | 22.4 | 25.3 |
| 77.5° | 20.9 | 22.4 |
| 80° | 17.9 | 19.4 |



TEST NUMBER: P1307455
CATALOG NUMBER: LDSQA3D20R309024D010 3LSQCA45R 1MMS

CANDELA DISTRIBUTION (continued):

| | 157.5° | 180° |
|-------|--------|------|
| 82.5° | 14.9 | 14.9 |
| 85° | 10.4 | 11.9 |
| 87.5° | 6.0 | 6.0 |
| 90° | 0.0 | 0.0 |

(END OF REPORT)