

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: P1312339

Luminaire Tested: LDSQA3D09R159050DE010 3LSQCA45R 1MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1312339
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-73)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D09R159050DE010 3LSQCA45R 1MMS
Description: 3in Adjustable LED luminaire with, R15 optic, 5000K CCT AND, 90CRI , 3LSQCA45R 1MMS TRII
Light Source: -
Ballast/Driver: -

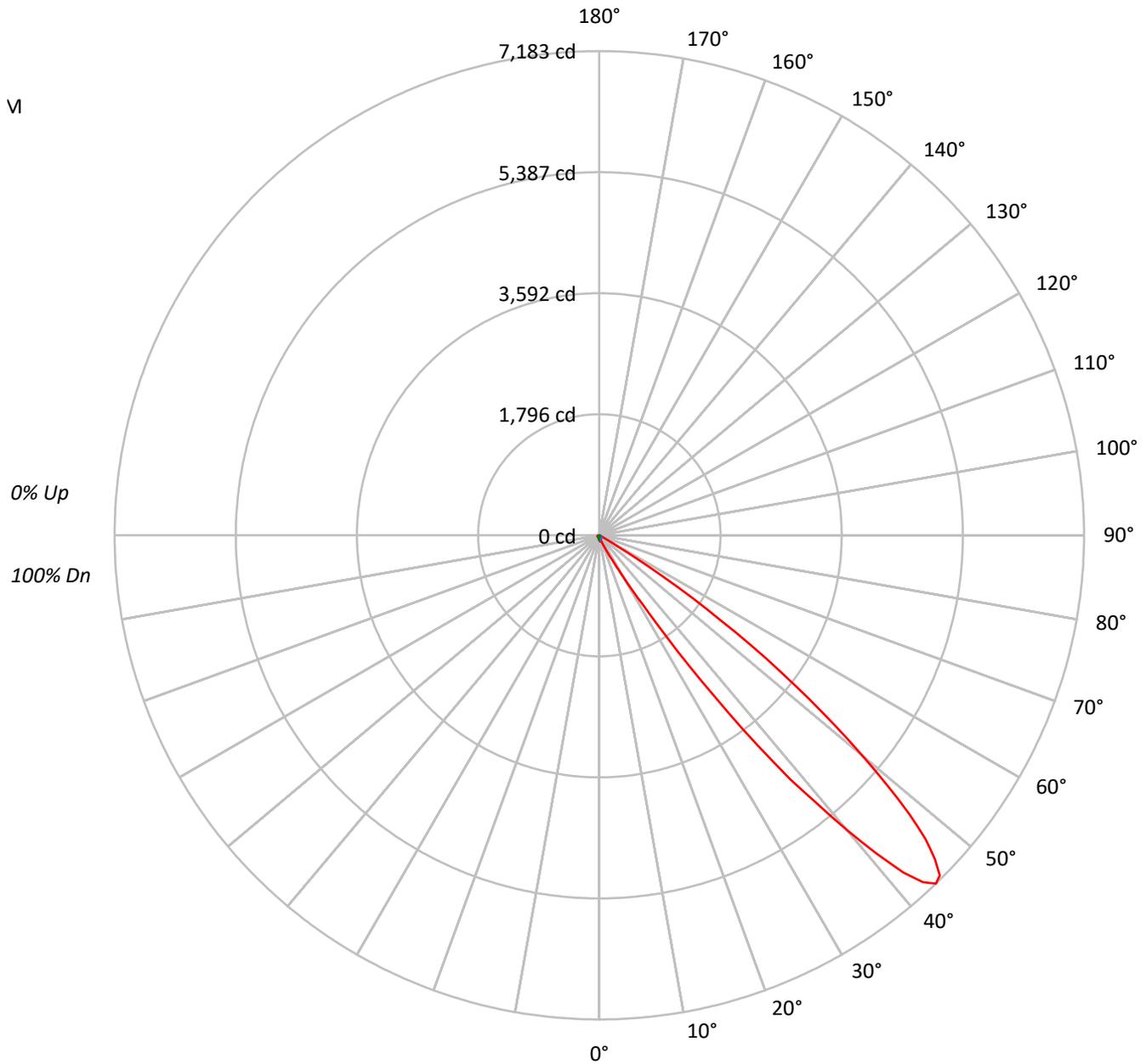
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 802.0 lumens
Efficiency: N/A
Efficacy: 72.3 lumens/watt
Spacing Criteria (0/90/45): 3.26 / 0.47 / 1.08
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 11.1
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: P1312339
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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 |
| RCR | | | | | | | | | | | | | | | | | | | | |
| 0 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 102 | 100 | |
| 1 | 110 | 106 | 102 | 99 | 107 | 104 | 100 | 97 | 100 | 97 | 94 | 96 | 93 | 91 | 92 | 90 | 89 | 89 | 87 | |
| 2 | 101 | 93 | 87 | 81 | 98 | 91 | 85 | 80 | 87 | 83 | 78 | 84 | 80 | 77 | 81 | 78 | 75 | 75 | 73 | |
| 3 | 91 | 81 | 73 | 67 | 89 | 79 | 72 | 66 | 76 | 70 | 65 | 74 | 68 | 64 | 71 | 67 | 63 | 63 | 61 | |
| 4 | 83 | 71 | 62 | 55 | 80 | 69 | 61 | 55 | 67 | 60 | 54 | 64 | 58 | 53 | 62 | 57 | 53 | 53 | 50 | |
| 5 | 75 | 62 | 52 | 46 | 73 | 61 | 52 | 45 | 58 | 51 | 45 | 56 | 50 | 44 | 55 | 49 | 44 | 44 | 42 | |
| 6 | 68 | 54 | 45 | 38 | 66 | 53 | 44 | 38 | 51 | 43 | 37 | 49 | 42 | 37 | 48 | 42 | 37 | 37 | 35 | |
| 7 | 62 | 47 | 38 | 32 | 60 | 47 | 38 | 32 | 45 | 37 | 31 | 44 | 36 | 31 | 42 | 36 | 31 | 31 | 29 | |
| 8 | 56 | 42 | 33 | 27 | 55 | 41 | 33 | 27 | 40 | 32 | 26 | 39 | 31 | 26 | 37 | 31 | 26 | 26 | 24 | |
| 9 | 52 | 37 | 28 | 22 | 50 | 37 | 28 | 22 | 35 | 28 | 22 | 34 | 27 | 22 | 33 | 27 | 22 | 22 | 20 | |
| 10 | 48 | 33 | 25 | 19 | 46 | 33 | 25 | 19 | 32 | 24 | 19 | 31 | 24 | 19 | 30 | 23 | 19 | 19 | 17 | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° | 135° | 180° |
|-----|---------|-------|-------|-------|-------|
| 0° | 12262 | 12262 | 12262 | 12262 | 12262 |
| 5° | 15213 | 13554 | 11064 | 9681 | 9543 |
| 10° | 14970 | 11612 | 8534 | 7555 | 7695 |
| 15° | 12410 | 8273 | 6133 | 6276 | 6704 |
| 20° | 21553 | 6598 | 4692 | 5425 | 6158 |
| 25° | 48020 | 7905 | 3801 | 5017 | 5777 |
| 30° | 143601 | 9705 | 3341 | 4932 | 6046 |
| 35° | 552797 | 10933 | 3028 | 5046 | 6391 |
| 40° | 1283097 | 9532 | 2878 | 5216 | 6835 |
| 45° | 1737919 | 7209 | 2533 | 5651 | 7404 |
| 50° | 1362670 | 4287 | 2572 | 6002 | 8145 |
| 55° | 654059 | 1922 | 2402 | 6486 | 8888 |
| 60° | 59761 | 276 | 2204 | 6889 | 9920 |
| 65° | 6520 | 0 | 1956 | 7172 | 10758 |
| 70° | 1611 | 0 | 2417 | 7654 | 11682 |
| 75° | 1597 | 532 | 3194 | 8517 | 13308 |
| 80° | 1587 | 1587 | 3967 | 8728 | 14282 |
| 85° | 1581 | 1581 | 6323 | 7904 | 15808 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1737919 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 6.1 | 0.8 |
| 10°-20° | 12.7 | 1.6 |
| 20°-30° | 30.3 | 3.8 |
| 30°-40° | 165.9 | 20.7 |
| 40°-50° | 401.7 | 50.1 |
| 50°-60° | 160.3 | 20.0 |
| 60°-70° | 13.9 | 1.7 |
| 70°-80° | 7.8 | 1.0 |
| 80°-90° | 3.4 | 0.4 |
| 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° | 49.0 | 6.1 |
| 0°-40° | 214.9 | 26.8 |
| 0°-60° | 776.9 | 96.9 |
| 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° | 71 | 71 | 71 | 71 | 71 | |
| 5° | 88 | 78 | 64 | 56 | 55 | 8 |
| 15° | 70 | 46 | 34 | 35 | 38 | 24 |
| 25° | 253 | 42 | 20 | 26 | 30 | 152 |
| 35° | 2629 | 52 | 14 | 24 | 30 | 1858 |
| 45° | 7136 | 30 | 10 | 23 | 30 | 5034 |
| 55° | 2178 | 6 | 8 | 22 | 30 | 2029 |
| 65° | 16 | 0 | 5 | 18 | 26 | 41 |
| 75° | 2 | 1 | 5 | 13 | 20 | 2 |
| 85° | 1 | 1 | 3 | 4 | 8 | 1 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P1312339
 CATALOG NUMBER: LDSQA3D09R159050DE010 3LSQCA45R 1MMS

CANDELA DISTRIBUTION (FULL):

| | 0° | 2.5° | 5° | 7.5° | 10° | 12.5° | 15° | 17.5° | 20° | 22.5° | 45° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|------|
| 0° | 71.2 | 71.2 | 71.2 | 71.2 | 71.2 | 71.2 | 71.2 | 71.2 | 71.2 | 71.2 | 71.2 |
| 2.5° | 80.0 | 80.0 | 80.8 | 80.0 | 80.0 | 80.0 | 80.0 | 79.2 | 79.2 | 79.2 | 76.8 |
| 5° | 88.0 | 88.0 | 88.0 | 88.0 | 87.2 | 87.2 | 87.2 | 86.4 | 86.4 | 85.6 | 78.4 |
| 7.5° | 91.2 | 91.2 | 90.4 | 90.4 | 89.6 | 89.6 | 88.8 | 88.0 | 87.2 | 86.4 | 75.2 |
| 10° | 85.6 | 85.6 | 85.6 | 84.8 | 84.8 | 84.0 | 83.2 | 82.4 | 81.6 | 80.0 | 66.4 |
| 12.5° | 76.0 | 76.0 | 76.8 | 76.0 | 75.2 | 74.4 | 72.8 | 72.0 | 71.2 | 69.6 | 55.2 |
| 15° | 69.6 | 69.6 | 69.6 | 68.8 | 68.0 | 66.4 | 65.6 | 64.0 | 63.2 | 60.8 | 46.4 |
| 17.5° | 88.8 | 88.8 | 88.0 | 86.4 | 83.2 | 80.8 | 76.8 | 73.6 | 69.6 | 64.8 | 40.0 |
| 20° | 117.6 | 117.6 | 116.0 | 114.4 | 110.4 | 106.4 | 100.0 | 94.4 | 88.0 | 82.4 | 36.0 |
| 22.5° | 170.3 | 172.7 | 167.9 | 162.3 | 156.7 | 147.1 | 138.3 | 129.5 | 118.4 | 108.8 | 36.8 |
| 25° | 252.7 | 255.1 | 252.7 | 239.9 | 229.5 | 216.7 | 199.9 | 182.3 | 163.1 | 145.5 | 41.6 |
| 27.5° | 409.4 | 411.0 | 407.0 | 375.8 | 359.1 | 325.5 | 295.9 | 267.1 | 235.1 | 203.1 | 45.6 |
| 30° | 722.1 | 722.9 | 697.3 | 634.9 | 579.8 | 506.2 | 443.8 | 383.8 | 333.5 | 282.3 | 48.8 |
| 31° | 950.8 | 928.4 | 874.0 | 798.9 | 710.9 | 611.7 | 526.2 | 448.6 | 373.4 | 318.3 | 49.6 |
| 32° | 1207.5 | 1204.3 | 1113.9 | 983.6 | 866.0 | 742.1 | 613.3 | 514.2 | 427.8 | 352.7 | 50.4 |
| 33° | 1547.4 | 1549.0 | 1406.6 | 1253.1 | 1060.4 | 894.0 | 725.3 | 589.4 | 485.4 | 393.4 | 52.0 |
| 34° | 2078.3 | 1953.6 | 1786.5 | 1578.5 | 1316.3 | 1066.0 | 846.8 | 676.5 | 537.4 | 432.6 | 52.0 |
| 35° | 2629.3 | 2503.8 | 2319.8 | 2004.8 | 1644.9 | 1294.7 | 991.6 | 770.1 | 599.8 | 475.0 | 52.0 |
| 36° | 3246.7 | 3140.3 | 2862.0 | 2459.8 | 2000.8 | 1510.6 | 1145.1 | 878.0 | 661.3 | 513.4 | 51.2 |
| 37° | 3913.6 | 3757.6 | 3449.0 | 3010.0 | 2395.8 | 1814.4 | 1332.2 | 985.2 | 722.9 | 555.0 | 49.6 |
| 38° | 4590.9 | 4450.2 | 4060.7 | 3528.9 | 2867.6 | 2135.1 | 1519.4 | 1088.4 | 779.7 | 586.2 | 47.2 |
| 39° | 5104.3 | 5027.5 | 4641.3 | 4047.1 | 3244.3 | 2439.0 | 1712.1 | 1198.7 | 839.7 | 617.3 | 44.8 |
| 40° | 5707.2 | 5583.3 | 5217.0 | 4482.1 | 3689.7 | 2748.5 | 1900.8 | 1296.3 | 889.2 | 642.1 | 42.4 |
| 41° | 6257.4 | 6100.7 | 5638.5 | 4928.4 | 4046.3 | 3026.7 | 2079.9 | 1397.0 | 929.2 | 656.5 | 40.8 |
| 42° | 6729.2 | 6546.9 | 6063.9 | 5310.6 | 4344.6 | 3249.1 | 2223.1 | 1469.0 | 966.8 | 668.5 | 38.4 |
| 43° | 7034.7 | 6877.2 | 6402.2 | 5597.7 | 4599.7 | 3453.0 | 2356.6 | 1544.2 | 990.0 | 676.5 | 35.2 |
| 44° | 7183.4 | 7024.3 | 6564.5 | 5777.6 | 4756.4 | 3575.3 | 2443.0 | 1596.1 | 1015.6 | 686.9 | 32.8 |
| 45° | 7135.5 | 6973.9 | 6529.3 | 5780.8 | 4805.2 | 3619.3 | 2479.8 | 1619.3 | 1029.2 | 696.5 | 29.6 |
| 46° | 6915.5 | 6802.0 | 6354.2 | 5630.5 | 4712.5 | 3572.1 | 2459.0 | 1601.7 | 1024.4 | 696.5 | 26.4 |
| 47° | 6606.9 | 6477.3 | 6051.1 | 5372.2 | 4487.7 | 3450.6 | 2375.0 | 1548.2 | 994.8 | 680.5 | 23.2 |
| 48° | 6186.2 | 6075.9 | 5628.1 | 4961.9 | 4143.1 | 3185.9 | 2185.5 | 1461.0 | 948.4 | 649.3 | 20.0 |
| 49° | 5658.5 | 5504.9 | 5088.3 | 4437.4 | 3693.7 | 2810.0 | 1936.8 | 1313.9 | 874.0 | 605.3 | 17.6 |
| 50° | 5085.9 | 4896.4 | 4574.9 | 3912.0 | 3229.1 | 2409.4 | 1609.7 | 1110.7 | 769.3 | 547.8 | 16.0 |
| 51° | 4525.3 | 4332.6 | 4026.3 | 3462.6 | 2733.3 | 1999.2 | 1298.7 | 886.8 | 633.3 | 468.6 | 13.6 |
| 52° | 3944.0 | 3782.4 | 3439.4 | 2996.4 | 2339.8 | 1620.1 | 1082.0 | 750.1 | 526.2 | 393.4 | 11.2 |
| 53° | 3365.0 | 3254.7 | 2928.4 | 2479.8 | 1880.0 | 1323.5 | 883.6 | 642.1 | 459.0 | 336.7 | 8.8 |
| 54° | 2785.2 | 2664.5 | 2416.6 | 2016.8 | 1515.4 | 1044.4 | 749.3 | 537.4 | 398.2 | 293.5 | 8.0 |
| 55° | 2178.3 | 2115.9 | 1887.2 | 1537.8 | 1148.3 | 833.3 | 607.7 | 462.2 | 333.5 | 245.5 | 6.4 |
| 56° | 1677.7 | 1607.3 | 1398.6 | 1115.5 | 853.2 | 652.5 | 491.8 | 377.4 | 282.3 | 205.5 | 4.8 |
| 57° | 1098.7 | 1026.8 | 888.4 | 778.9 | 621.3 | 475.8 | 375.8 | 297.5 | 229.5 | 170.3 | 4.0 |
| 58° | 649.3 | 583.8 | 562.2 | 479.8 | 414.2 | 323.1 | 277.5 | 221.5 | 169.5 | 134.3 | 2.4 |
| 59° | 298.3 | 303.1 | 269.5 | 252.7 | 229.5 | 205.5 | 168.7 | 147.9 | 116.0 | 96.8 | 1.6 |
| 60° | 173.5 | 163.9 | 159.9 | 143.1 | 127.1 | 112.8 | 101.6 | 89.6 | 72.8 | 62.4 | 0.8 |
| 62.5° | 59.2 | 56.8 | 58.4 | 52.8 | 49.6 | 48.0 | 44.0 | 37.6 | 31.2 | 25.6 | 0.0 |
| 65° | 16.0 | 16.0 | 15.2 | 14.4 | 13.6 | 12.8 | 12.0 | 10.4 | 9.6 | 8.0 | 0.0 |



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CANDELA DISTRIBUTION (continued):

| | 0° | 2.5° | 5° | 7.5° | 10° | 12.5° | 15° | 17.5° | 20° | 22.5° | 45° |
|-------|-----|------|-----|------|-----|-------|-----|-------|-----|-------|-----|
| 67.5° | 5.6 | 5.6 | 4.8 | 4.8 | 4.0 | 4.0 | 3.2 | 3.2 | 2.4 | 2.4 | 0.0 |
| 70° | 3.2 | 3.2 | 3.2 | 2.4 | 2.4 | 2.4 | 1.6 | 1.6 | 1.6 | 0.8 | 0.0 |
| 72.5° | 2.4 | 2.4 | 2.4 | 2.4 | 2.4 | 2.4 | 1.6 | 1.6 | 1.6 | 0.8 | 0.8 |
| 75° | 2.4 | 2.4 | 2.4 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 0.8 |
| 77.5° | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 |
| 80° | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 0.8 | 1.6 |
| 82.5° | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 1.6 |
| 85° | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.8 |
| 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: LDSQA3D09R159050DE010 3LSQCA45R 1MMS

CANDELA DISTRIBUTION (continued):

| | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° |
|-------|-------|------|--------|------|--------|------|
| 0° | 71.2 | 71.2 | 71.2 | 71.2 | 71.2 | 71.2 |
| 2.5° | 73.6 | 70.4 | 66.4 | 64.0 | 63.2 | 62.4 |
| 5° | 70.4 | 64.0 | 59.2 | 56.0 | 55.2 | 55.2 |
| 7.5° | 63.2 | 56.0 | 51.2 | 49.6 | 48.8 | 48.8 |
| 10° | 55.2 | 48.8 | 44.8 | 43.2 | 44.0 | 44.0 |
| 12.5° | 46.4 | 40.8 | 39.2 | 39.2 | 40.0 | 40.8 |
| 15° | 37.6 | 34.4 | 34.4 | 35.2 | 36.8 | 37.6 |
| 17.5° | 31.2 | 29.6 | 30.4 | 32.0 | 33.6 | 35.2 |
| 20° | 25.6 | 25.6 | 27.2 | 29.6 | 32.0 | 33.6 |
| 22.5° | 21.6 | 22.4 | 24.8 | 27.2 | 30.4 | 32.0 |
| 25° | 18.4 | 20.0 | 22.4 | 26.4 | 29.6 | 30.4 |
| 27.5° | 16.0 | 18.4 | 21.6 | 25.6 | 28.8 | 30.4 |
| 30° | 13.6 | 16.8 | 20.8 | 24.8 | 28.8 | 30.4 |
| 31° | 12.8 | 16.0 | 20.0 | 24.8 | 28.8 | 30.4 |
| 32° | 12.0 | 16.0 | 20.0 | 24.8 | 28.8 | 30.4 |
| 33° | 11.2 | 15.2 | 20.0 | 24.0 | 28.8 | 30.4 |
| 34° | 10.4 | 15.2 | 20.0 | 24.8 | 28.8 | 30.4 |
| 35° | 9.6 | 14.4 | 19.2 | 24.0 | 28.0 | 30.4 |
| 36° | 8.8 | 14.4 | 19.2 | 24.0 | 28.8 | 30.4 |
| 37° | 8.0 | 14.4 | 19.2 | 24.0 | 28.0 | 30.4 |
| 38° | 8.0 | 13.6 | 18.4 | 24.0 | 28.0 | 30.4 |
| 39° | 7.2 | 12.8 | 18.4 | 24.0 | 28.0 | 30.4 |
| 40° | 6.4 | 12.8 | 17.6 | 23.2 | 28.0 | 30.4 |
| 41° | 5.6 | 12.0 | 17.6 | 23.2 | 28.0 | 30.4 |
| 42° | 4.8 | 12.0 | 17.6 | 23.2 | 28.0 | 30.4 |
| 43° | 4.0 | 11.2 | 16.8 | 23.2 | 28.0 | 30.4 |
| 44° | 4.0 | 11.2 | 16.8 | 23.2 | 28.0 | 30.4 |
| 45° | 3.2 | 10.4 | 16.0 | 23.2 | 28.0 | 30.4 |
| 46° | 3.2 | 10.4 | 16.0 | 22.4 | 28.0 | 30.4 |
| 47° | 2.4 | 10.4 | 16.0 | 22.4 | 28.0 | 30.4 |
| 48° | 2.4 | 9.6 | 16.0 | 22.4 | 28.0 | 30.4 |
| 49° | 1.6 | 9.6 | 16.0 | 22.4 | 28.0 | 30.4 |
| 50° | 1.6 | 9.6 | 15.2 | 22.4 | 28.0 | 30.4 |
| 51° | 1.6 | 9.6 | 15.2 | 22.4 | 28.0 | 30.4 |
| 52° | 1.6 | 8.8 | 15.2 | 22.4 | 28.0 | 30.4 |
| 53° | 1.6 | 8.8 | 15.2 | 22.4 | 28.0 | 30.4 |
| 54° | 1.6 | 8.8 | 14.4 | 22.4 | 28.0 | 30.4 |
| 55° | 1.6 | 8.0 | 14.4 | 21.6 | 28.0 | 29.6 |
| 56° | 1.6 | 8.0 | 14.4 | 21.6 | 28.0 | 29.6 |
| 57° | 1.6 | 8.0 | 13.6 | 21.6 | 28.0 | 29.6 |
| 58° | 1.6 | 7.2 | 13.6 | 20.8 | 27.2 | 29.6 |
| 59° | 1.6 | 7.2 | 12.8 | 20.8 | 27.2 | 28.8 |
| 60° | 1.6 | 6.4 | 12.8 | 20.0 | 26.4 | 28.8 |
| 62.5° | 1.6 | 5.6 | 11.2 | 19.2 | 25.6 | 27.2 |
| 65° | 1.6 | 4.8 | 10.4 | 17.6 | 24.8 | 26.4 |



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CANDELA DISTRIBUTION (continued):

| | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° |
|-------|-------|-----|--------|------|--------|------|
| 67.5° | 1.6 | 4.8 | 9.6 | 16.8 | 23.2 | 25.6 |
| 70° | 1.6 | 4.8 | 8.8 | 15.2 | 22.4 | 23.2 |
| 72.5° | 2.4 | 4.8 | 8.0 | 14.4 | 20.8 | 21.6 |
| 75° | 3.2 | 4.8 | 7.2 | 12.8 | 19.2 | 20.0 |
| 77.5° | 3.2 | 4.8 | 6.4 | 11.2 | 16.8 | 17.6 |
| 80° | 3.2 | 4.0 | 5.6 | 8.8 | 13.6 | 14.4 |
| 82.5° | 3.2 | 4.0 | 4.0 | 7.2 | 10.4 | 11.2 |
| 85° | 2.4 | 3.2 | 3.2 | 4.0 | 7.2 | 8.0 |
| 87.5° | 2.4 | 3.2 | 1.6 | 2.4 | 3.2 | 3.2 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)