

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: P1318679

Luminaire Tested: LDSQA3D20R409830D010 3LSQCA45R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1318679
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-78)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D20R409830D010 3LSQCA45R 1MW
Description: 3in Adjustable LED luminaire with, R40 optic, 3000K CCT AND, 98CRI , 3LSQCA45R 1MW TRIM
Light Source: -
Ballast/Driver: -

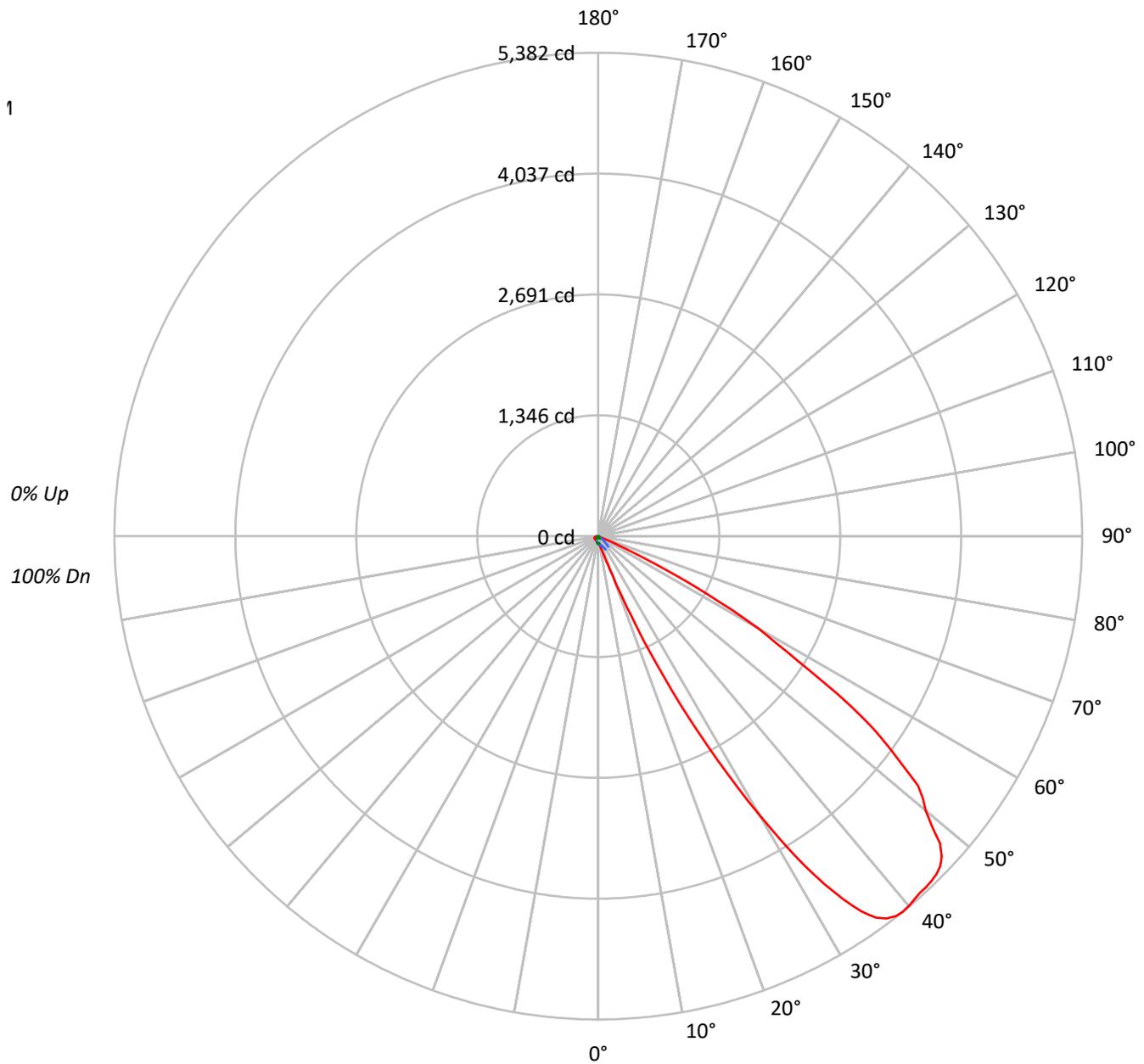
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1663.0 lumens
Efficiency: N/A
Efficacy: 60.7 lumens/watt
Spacing Criteria (0/90/45): 3.99 / 0.73 / 1.54
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 27.4
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: P1318679
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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 | 107 | 104 | 100 | 97 | 99 | 97 | 94 | 96 | 93 | 91 | 92 | 90 | 88 | 88 | 88 | 88 | 86 |
| 2 | 100 | 93 | 86 | 81 | 98 | 91 | 85 | 80 | 87 | 82 | 78 | 84 | 80 | 76 | 81 | 78 | 75 | 75 | 75 | 75 | 72 |
| 3 | 91 | 81 | 73 | 66 | 89 | 79 | 72 | 66 | 76 | 70 | 65 | 73 | 68 | 64 | 71 | 66 | 62 | 62 | 62 | 62 | 60 |
| 4 | 82 | 70 | 62 | 55 | 80 | 69 | 61 | 54 | 67 | 59 | 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 | 38 | 50 | 43 | 37 | 48 | 42 | 37 | 37 | 37 | 37 | 35 |
| 7 | 62 | 48 | 39 | 32 | 60 | 47 | 38 | 32 | 45 | 37 | 32 | 44 | 37 | 31 | 42 | 36 | 31 | 31 | 31 | 31 | 29 |
| 8 | 57 | 42 | 33 | 27 | 55 | 42 | 33 | 27 | 40 | 32 | 27 | 39 | 32 | 27 | 38 | 31 | 26 | 26 | 26 | 26 | 24 |
| 9 | 52 | 38 | 29 | 23 | 51 | 37 | 29 | 23 | 36 | 28 | 23 | 35 | 28 | 23 | 34 | 27 | 23 | 23 | 23 | 23 | 21 |
| 10 | 48 | 34 | 25 | 20 | 47 | 33 | 25 | 20 | 32 | 25 | 20 | 31 | 24 | 20 | 30 | 24 | 19 | 19 | 19 | 19 | 18 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° | 135° | 180° |
|-----|---------|-------|-------|-------|-------|
| 0° | 14725 | 14725 | 14725 | 14725 | 14725 |
| 5° | 16372 | 15836 | 14522 | 13208 | 12931 |
| 10° | 19761 | 16823 | 13361 | 12014 | 11752 |
| 15° | 32397 | 18240 | 11429 | 10627 | 10894 |
| 20° | 85645 | 21553 | 9512 | 9512 | 10355 |
| 25° | 330266 | 26699 | 7544 | 8703 | 10166 |
| 30° | 712515 | 35537 | 6065 | 8511 | 10023 |
| 35° | 1072460 | 42070 | 5130 | 8347 | 10281 |
| 40° | 1208254 | 42221 | 4474 | 8588 | 10994 |
| 45° | 1295591 | 32734 | 4092 | 8939 | 11910 |
| 50° | 1273422 | 20470 | 3671 | 9404 | 13102 |
| 55° | 1120274 | 10089 | 3663 | 10539 | 14683 |
| 60° | 709110 | 2101 | 4202 | 11573 | 16292 |
| 65° | 144993 | 611 | 4360 | 12429 | 18053 |
| 70° | 3072 | 755 | 4633 | 13847 | 20746 |
| 75° | 3061 | 2063 | 5057 | 15238 | 23356 |
| 80° | 3075 | 1488 | 6050 | 16662 | 27274 |
| 85° | 2964 | 2964 | 12054 | 18180 | 30233 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 47°
 Luminance: 1318971 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 8.0 | 0.5 |
| 10°-20° | 26.3 | 1.6 |
| 20°-30° | 129.2 | 7.8 |
| 30°-40° | 420.1 | 25.3 |
| 40°-50° | 579.2 | 34.8 |
| 50°-60° | 403.4 | 24.3 |
| 60°-70° | 76.5 | 4.6 |
| 70°-80° | 13.8 | 0.8 |
| 80°-90° | 6.4 | 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° | 163.5 | 9.8 |
| 0°-40° | 583.7 | 35.1 |
| 0°-60° | 1566.3 | 94.2 |
| 0°-90° | 1663.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 1663.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|-----|-----|------|------|------|
| 0° | 86 | 86 | 86 | 86 | 86 | |
| 5° | 95 | 92 | 84 | 76 | 75 | 10 |
| 15° | 182 | 102 | 64 | 60 | 61 | 66 |
| 25° | 1738 | 140 | 40 | 46 | 54 | 895 |
| 35° | 5101 | 200 | 24 | 40 | 49 | 3082 |
| 45° | 5319 | 134 | 17 | 37 | 49 | 4045 |
| 55° | 3731 | 34 | 12 | 35 | 49 | 3189 |
| 65° | 356 | 2 | 11 | 30 | 44 | 629 |
| 75° | 5 | 3 | 8 | 23 | 35 | 4 |
| 85° | 2 | 2 | 6 | 9 | 15 | 1 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P1318679

CATALOG NUMBER: LDSQA3D20R409830D010 3LSQCA45R 1MW

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|-------|-------|-------|------|
| 0° | 85.5 | 85.5 | 85.5 | 85.5 | 85.5 | 85.5 | 85.5 | 85.5 | 85.5 | 85.5 | 85.5 |
| 2.5° | 88.6 | 88.6 | 88.6 | 88.6 | 88.6 | 88.6 | 88.6 | 88.6 | 88.6 | 87.1 | 85.5 |
| 5° | 94.7 | 94.7 | 94.7 | 94.7 | 93.2 | 93.2 | 93.2 | 91.6 | 91.6 | 88.6 | 84.0 |
| 7.5° | 100.8 | 100.8 | 100.8 | 100.8 | 99.3 | 97.7 | 96.2 | 96.2 | 94.7 | 87.1 | 80.9 |
| 10° | 113.0 | 113.0 | 111.5 | 110.0 | 108.4 | 105.4 | 103.9 | 100.8 | 96.2 | 85.5 | 76.4 |
| 12.5° | 137.5 | 134.4 | 132.9 | 129.8 | 125.2 | 119.1 | 113.0 | 108.4 | 97.7 | 82.5 | 71.8 |
| 15° | 181.7 | 178.7 | 172.6 | 163.4 | 154.3 | 142.0 | 131.3 | 120.7 | 102.3 | 77.9 | 64.1 |
| 17.5° | 259.6 | 250.5 | 241.3 | 226.0 | 203.1 | 181.7 | 158.8 | 139.0 | 108.4 | 73.3 | 58.0 |
| 20° | 467.3 | 461.2 | 406.2 | 363.5 | 294.8 | 245.9 | 200.1 | 166.5 | 117.6 | 68.7 | 51.9 |
| 22.5° | 963.7 | 899.5 | 809.4 | 662.8 | 516.2 | 380.3 | 276.4 | 209.2 | 126.8 | 62.6 | 45.8 |
| 25° | 1738.0 | 1637.2 | 1443.2 | 1160.7 | 856.8 | 606.3 | 400.1 | 273.4 | 140.5 | 56.5 | 39.7 |
| 27.5° | 2631.4 | 2529.1 | 2228.2 | 1838.8 | 1342.4 | 914.8 | 571.2 | 362.0 | 158.8 | 50.4 | 35.1 |
| 30° | 3582.9 | 3495.8 | 3114.0 | 2574.9 | 1892.2 | 1281.3 | 765.1 | 452.1 | 178.7 | 44.3 | 30.5 |
| 31° | 3966.2 | 3854.7 | 3442.4 | 2868.1 | 2150.3 | 1432.5 | 843.0 | 490.2 | 186.3 | 42.8 | 29.0 |
| 32° | 4319.0 | 4192.3 | 3764.6 | 3149.2 | 2359.6 | 1596.0 | 928.6 | 523.8 | 192.4 | 39.7 | 27.5 |
| 33° | 4622.9 | 4474.8 | 4062.4 | 3414.9 | 2590.2 | 1748.7 | 1017.1 | 555.9 | 197.0 | 36.7 | 26.0 |
| 34° | 4881.0 | 4752.8 | 4309.9 | 3682.2 | 2794.8 | 1895.3 | 1104.2 | 588.0 | 200.1 | 35.1 | 24.4 |
| 35° | 5101.0 | 4984.9 | 4546.6 | 3885.3 | 2994.9 | 2037.3 | 1183.6 | 618.5 | 200.1 | 32.1 | 24.4 |
| 36° | 5249.1 | 5148.3 | 4751.2 | 4093.0 | 3162.9 | 2158.0 | 1250.8 | 646.0 | 200.1 | 29.0 | 22.9 |
| 37° | 5330.0 | 5232.3 | 4885.6 | 4264.0 | 3327.8 | 2277.1 | 1311.9 | 667.4 | 198.5 | 27.5 | 21.4 |
| 38° | 5371.3 | 5285.8 | 4984.9 | 4403.0 | 3442.4 | 2362.6 | 1365.3 | 684.2 | 197.0 | 24.4 | 21.4 |
| 39° | 5382.0 | 5310.2 | 5047.5 | 4503.8 | 3553.9 | 2448.2 | 1403.5 | 693.4 | 192.4 | 22.9 | 19.9 |
| 40° | 5374.3 | 5311.7 | 5081.1 | 4593.9 | 3639.4 | 2515.4 | 1431.0 | 696.4 | 187.8 | 19.9 | 19.9 |
| 41° | 5359.1 | 5310.2 | 5105.5 | 4656.5 | 3708.1 | 2558.1 | 1441.7 | 690.3 | 181.7 | 16.8 | 18.3 |
| 42° | 5345.3 | 5291.9 | 5116.2 | 4699.3 | 3755.5 | 2579.5 | 1440.2 | 678.1 | 172.6 | 15.3 | 18.3 |
| 43° | 5345.3 | 5284.2 | 5117.8 | 4726.8 | 3778.4 | 2581.0 | 1421.9 | 655.2 | 160.4 | 13.7 | 16.8 |
| 44° | 5336.2 | 5279.6 | 5125.4 | 4745.1 | 3784.5 | 2567.3 | 1392.8 | 630.7 | 146.6 | 12.2 | 16.8 |
| 45° | 5319.4 | 5259.8 | 5123.9 | 4746.6 | 3773.8 | 2533.7 | 1345.5 | 598.7 | 134.4 | 9.2 | 16.8 |
| 46° | 5287.3 | 5233.8 | 5110.1 | 4736.0 | 3741.7 | 2484.8 | 1289.0 | 566.6 | 120.7 | 7.6 | 15.3 |
| 47° | 5223.1 | 5181.9 | 5073.5 | 4699.3 | 3692.9 | 2413.0 | 1221.8 | 530.0 | 110.0 | 6.1 | 15.3 |
| 48° | 5113.2 | 5084.2 | 5010.9 | 4618.4 | 3599.7 | 2324.5 | 1150.0 | 490.2 | 99.3 | 6.1 | 15.3 |
| 49° | 4911.6 | 4888.7 | 4845.9 | 4488.5 | 3480.6 | 2216.0 | 1072.1 | 446.0 | 88.6 | 4.6 | 15.3 |
| 50° | 4752.8 | 4728.3 | 4641.3 | 4270.1 | 3309.5 | 2078.6 | 986.6 | 401.7 | 76.4 | 3.1 | 13.7 |
| 51° | 4647.4 | 4607.7 | 4470.2 | 4016.6 | 3060.6 | 1895.3 | 893.4 | 357.4 | 64.1 | 3.1 | 13.7 |
| 52° | 4514.5 | 4454.9 | 4283.9 | 3789.1 | 2833.0 | 1712.0 | 792.6 | 313.1 | 56.5 | 3.1 | 13.7 |
| 53° | 4236.5 | 4215.2 | 4045.6 | 3544.7 | 2605.5 | 1536.4 | 688.8 | 276.4 | 48.9 | 3.1 | 13.7 |
| 54° | 3993.7 | 3961.6 | 3731.0 | 3205.7 | 2358.0 | 1340.9 | 581.9 | 244.4 | 41.2 | 3.1 | 13.7 |
| 55° | 3731.0 | 3668.4 | 3463.8 | 2920.1 | 2067.9 | 1160.7 | 479.6 | 210.8 | 33.6 | 3.1 | 12.2 |
| 56° | 3399.6 | 3344.6 | 3124.7 | 2614.6 | 1800.6 | 977.4 | 401.7 | 172.6 | 26.0 | 3.1 | 12.2 |
| 57° | 2996.4 | 2946.0 | 2776.5 | 2238.9 | 1522.7 | 798.7 | 326.8 | 139.0 | 19.9 | 3.1 | 12.2 |
| 58° | 2607.0 | 2550.5 | 2356.5 | 1878.5 | 1229.4 | 633.8 | 273.4 | 113.0 | 15.3 | 3.1 | 12.2 |
| 59° | 2307.7 | 2231.3 | 1980.8 | 1577.6 | 962.2 | 481.1 | 216.9 | 90.1 | 10.7 | 3.1 | 12.2 |
| 60° | 2058.7 | 1996.1 | 1736.5 | 1313.4 | 754.5 | 354.3 | 160.4 | 68.7 | 6.1 | 3.1 | 12.2 |
| 62.5° | 1192.8 | 1176.0 | 942.3 | 676.6 | 355.8 | 164.9 | 79.4 | 32.1 | 3.1 | 4.6 | 12.2 |
| 65° | 355.8 | 310.0 | 241.3 | 143.6 | 91.6 | 55.0 | 29.0 | 10.7 | 1.5 | 4.6 | 10.7 |



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CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 45° | 67.5° | 90° |
|-------|------|------|------|------|------|------|-----|-----|-----|-------|------|
| 67.5° | 10.7 | 10.7 | 10.7 | 10.7 | 10.7 | 10.7 | 6.1 | 3.1 | 1.5 | 4.6 | 10.7 |
| 70° | 6.1 | 4.6 | 4.6 | 4.6 | 4.6 | 3.1 | 3.1 | 1.5 | 1.5 | 4.6 | 9.2 |
| 72.5° | 4.6 | 4.6 | 4.6 | 4.6 | 3.1 | 3.1 | 3.1 | 1.5 | 3.1 | 4.6 | 7.6 |
| 75° | 4.6 | 3.1 | 3.1 | 3.1 | 3.1 | 1.5 | 1.5 | 1.5 | 3.1 | 4.6 | 7.6 |
| 77.5° | 3.1 | 3.1 | 3.1 | 3.1 | 1.5 | 1.5 | 1.5 | 1.5 | 3.1 | 4.6 | 7.6 |
| 80° | 3.1 | 3.1 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 4.6 | 6.1 |
| 82.5° | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 4.6 | 6.1 |
| 85° | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 4.6 | 6.1 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.5 | 1.5 | 4.6 | 4.6 |
| 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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 CATALOG NUMBER: LDSQA3D20R409830D010 3LSQCA45R 1MW

CANDELA DISTRIBUTION (continued):

| | 112.5° | 135° | 157.5° | 180° |
|-------|--------|------|--------|------|
| 0° | 85.5 | 85.5 | 85.5 | 85.5 |
| 2.5° | 82.5 | 80.9 | 79.4 | 79.4 |
| 5° | 79.4 | 76.4 | 76.4 | 74.8 |
| 7.5° | 74.8 | 71.8 | 71.8 | 71.8 |
| 10° | 70.3 | 68.7 | 68.7 | 67.2 |
| 12.5° | 64.1 | 64.1 | 64.1 | 64.1 |
| 15° | 59.6 | 59.6 | 61.1 | 61.1 |
| 17.5° | 53.5 | 55.0 | 58.0 | 59.6 |
| 20° | 48.9 | 51.9 | 55.0 | 56.5 |
| 22.5° | 45.8 | 48.9 | 53.5 | 55.0 |
| 25° | 41.2 | 45.8 | 51.9 | 53.5 |
| 27.5° | 38.2 | 44.3 | 48.9 | 51.9 |
| 30° | 35.1 | 42.8 | 47.3 | 50.4 |
| 31° | 35.1 | 41.2 | 47.3 | 50.4 |
| 32° | 33.6 | 39.7 | 47.3 | 48.9 |
| 33° | 33.6 | 39.7 | 47.3 | 48.9 |
| 34° | 32.1 | 39.7 | 45.8 | 48.9 |
| 35° | 32.1 | 39.7 | 45.8 | 48.9 |
| 36° | 30.5 | 38.2 | 45.8 | 48.9 |
| 37° | 30.5 | 38.2 | 45.8 | 48.9 |
| 38° | 29.0 | 38.2 | 45.8 | 48.9 |
| 39° | 29.0 | 38.2 | 45.8 | 48.9 |
| 40° | 29.0 | 38.2 | 45.8 | 48.9 |
| 41° | 27.5 | 38.2 | 45.8 | 48.9 |
| 42° | 27.5 | 38.2 | 45.8 | 48.9 |
| 43° | 27.5 | 36.7 | 45.8 | 48.9 |
| 44° | 27.5 | 36.7 | 45.8 | 48.9 |
| 45° | 26.0 | 36.7 | 45.8 | 48.9 |
| 46° | 26.0 | 36.7 | 45.8 | 48.9 |
| 47° | 26.0 | 36.7 | 45.8 | 48.9 |
| 48° | 26.0 | 36.7 | 45.8 | 48.9 |
| 49° | 26.0 | 36.7 | 45.8 | 48.9 |
| 50° | 24.4 | 35.1 | 45.8 | 48.9 |
| 51° | 24.4 | 35.1 | 45.8 | 48.9 |
| 52° | 24.4 | 35.1 | 45.8 | 48.9 |
| 53° | 24.4 | 35.1 | 45.8 | 48.9 |
| 54° | 22.9 | 35.1 | 45.8 | 48.9 |
| 55° | 22.9 | 35.1 | 45.8 | 48.9 |
| 56° | 22.9 | 35.1 | 45.8 | 47.3 |
| 57° | 22.9 | 35.1 | 44.3 | 47.3 |
| 58° | 22.9 | 33.6 | 44.3 | 47.3 |
| 59° | 22.9 | 33.6 | 44.3 | 47.3 |
| 60° | 22.9 | 33.6 | 44.3 | 47.3 |
| 62.5° | 21.4 | 33.6 | 42.8 | 45.8 |
| 65° | 19.9 | 30.5 | 42.8 | 44.3 |



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CATALOG NUMBER: LDSQA3D20R409830D010 3LSQCA45R 1MW

CANDELA DISTRIBUTION (continued):

| | 112.5° | 135° | 157.5° | 180° |
|-------|--------|------|--------|------|
| 67.5° | 19.9 | 29.0 | 39.7 | 42.8 |
| 70° | 18.3 | 27.5 | 38.2 | 41.2 |
| 72.5° | 15.3 | 26.0 | 35.1 | 38.2 |
| 75° | 13.7 | 22.9 | 32.1 | 35.1 |
| 77.5° | 12.2 | 19.9 | 29.0 | 30.5 |
| 80° | 10.7 | 16.8 | 24.4 | 27.5 |
| 82.5° | 7.6 | 12.2 | 19.9 | 21.4 |
| 85° | 6.1 | 9.2 | 13.7 | 15.3 |
| 87.5° | 4.6 | 4.6 | 7.6 | 7.6 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)