

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: P1307665

Luminaire Tested: LDSQA3D02R409027DE010 3LSQCA45R 1MMS

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1307665  
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: LDSQA3D02R409027DE010 3LSQCA45R 1MMS  
Description: 3in Adjustable LED luminaire with, R40 optic, 2700K CCT AND, 90CRI , 3LSQCA45R 1MMS TRII  
Light Source: -  
Ballast/Driver: -

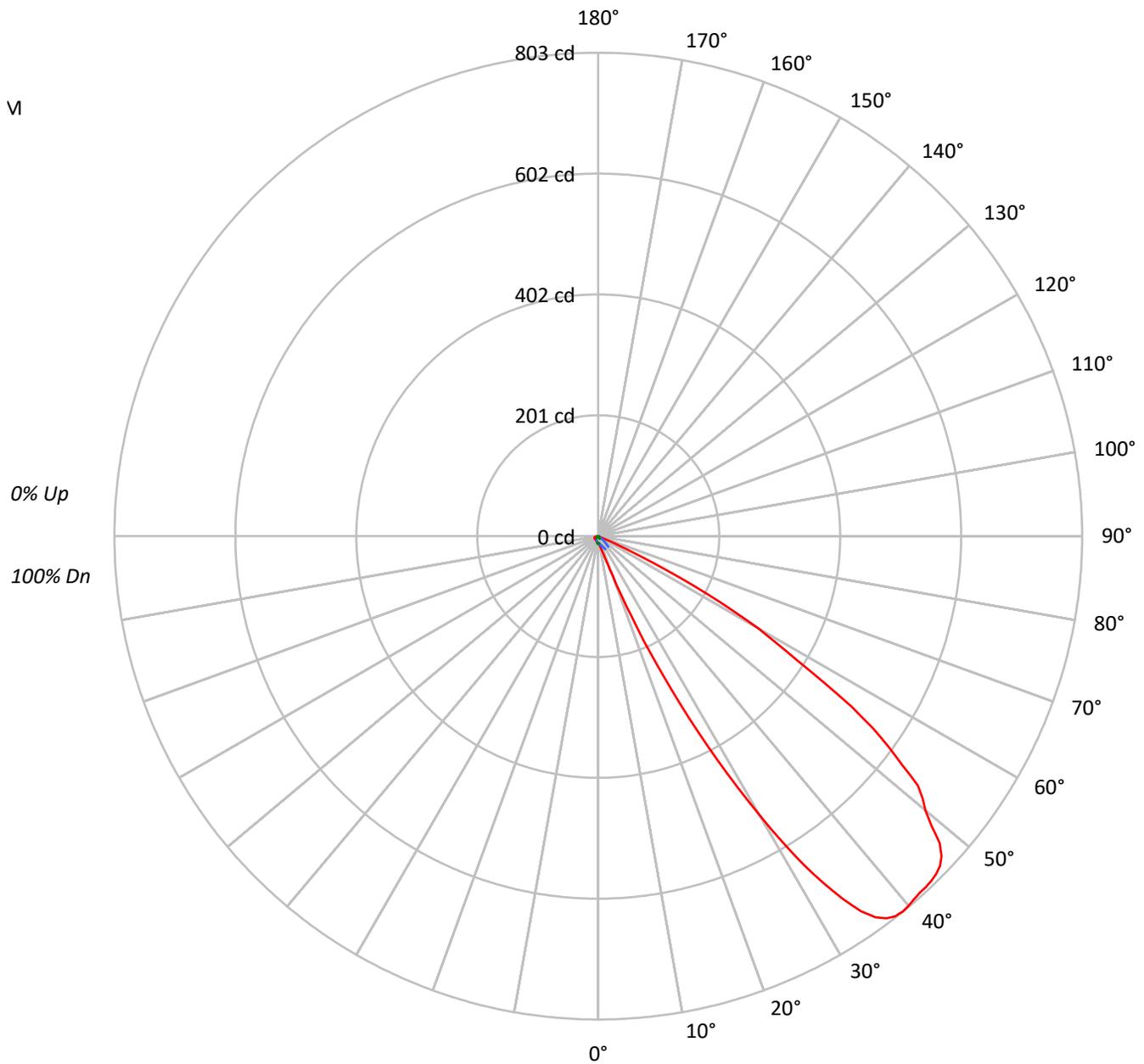
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 248.0 lumens  
Efficiency: N/A  
Efficacy: 68.9 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): 3.6  
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

TEST NUMBER: P1307665  
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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°  | 2204   | 2204 | 2204 | 2204 | 2204 |
| 5°  | 2438   | 2368 | 2161 | 1971 | 1936 |
| 10° | 2955   | 2501 | 1994 | 1784 | 1749 |
| 15° | 4832   | 2728 | 1712 | 1587 | 1623 |
| 20° | 12774  | 3207 | 1411 | 1411 | 1540 |
| 25° | 49255  | 3991 | 1121 | 1292 | 1520 |
| 30° | 106254 | 5290 | 915  | 1273 | 1491 |
| 35° | 159933 | 6265 | 757  | 1240 | 1535 |
| 40° | 180194 | 6295 | 674  | 1281 | 1641 |
| 45° | 193216 | 4871 | 609  | 1340 | 1778 |
| 50° | 189909 | 3054 | 536  | 1393 | 1956 |
| 55° | 167065 | 1501 | 540  | 1561 | 2192 |
| 60° | 105745 | 310  | 620  | 1722 | 2446 |
| 65° | 21639  | 82   | 652  | 1875 | 2690 |
| 70° | 453    | 101  | 705  | 2065 | 3072 |
| 75° | 466    | 333  | 732  | 2262 | 3460 |
| 80° | 496    | 198  | 893  | 2479 | 4066 |
| 85° | 395    | 395  | 1778 | 2766 | 4545 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 47°  
 Luminance: 196693 cd/sqm



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**ZONAL LUMENS:**

| Zone            | Lumens       | % Fixture    |
|-----------------|--------------|--------------|
| 0°-10°          | 1.2          | 0.5          |
| 10°-20°         | 3.9          | 1.6          |
| 20°-30°         | 19.3         | 7.8          |
| 30°-40°         | 62.7         | 25.3         |
| 40°-50°         | 86.4         | 34.8         |
| 50°-60°         | 60.2         | 24.3         |
| 60°-70°         | 11.4         | 4.6          |
| 70°-80°         | 2.1          | 0.8          |
| 80°-90°         | 0.9          | 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          |
| <b>0°-30°</b>   | <b>24.4</b>  | <b>9.8</b>   |
| <b>0°-40°</b>   | <b>87.0</b>  | <b>35.1</b>  |
| <b>0°-60°</b>   | <b>233.6</b> | <b>94.2</b>  |
| <b>0°-90°</b>   | <b>248.0</b> | <b>100.0</b> |
| 90°-120°        | 0.0          | 0.0          |
| 90°-150°        | 0.0          | 0.0          |
| <b>90°-180°</b> | <b>0.0</b>   | <b>0.0</b>   |
| <b>0°-180°</b>  | <b>248.0</b> | <b>100.0</b> |

**CANDELA DISTRIBUTION:**

|     | 0°  | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0°  | 13  | 13  | 13  | 13   | 13   |      |
| 5°  | 14  | 14  | 12  | 11   | 11   | 1    |
| 15° | 27  | 15  | 10  | 9    | 9    | 10   |
| 25° | 259 | 21  | 6   | 7    | 8    | 133  |
| 35° | 761 | 30  | 4   | 6    | 7    | 460  |
| 45° | 793 | 20  | 2   | 6    | 7    | 603  |
| 55° | 556 | 5   | 2   | 5    | 7    | 476  |
| 65° | 53  | 0   | 2   | 5    | 7    | 94   |
| 75° | 1   | 0   | 1   | 3    | 5    | 1    |
| 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°   | 35°   | 45°  | 67.5° | 90°  |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|------|
| 0°    | 12.8  | 12.8  | 12.8  | 12.8  | 12.8  | 12.8  | 12.8  | 12.8  | 12.8 | 12.8  | 12.8 |
| 2.5°  | 13.2  | 13.2  | 13.2  | 13.2  | 13.2  | 13.2  | 13.2  | 13.2  | 13.2 | 13.0  | 12.8 |
| 5°    | 14.1  | 14.1  | 14.1  | 14.1  | 13.9  | 13.9  | 13.9  | 13.7  | 13.7 | 13.2  | 12.5 |
| 7.5°  | 15.0  | 15.0  | 15.0  | 15.0  | 14.8  | 14.6  | 14.3  | 14.3  | 14.1 | 13.0  | 12.1 |
| 10°   | 16.9  | 16.9  | 16.6  | 16.4  | 16.2  | 15.7  | 15.5  | 15.0  | 14.3 | 12.8  | 11.4 |
| 12.5° | 20.5  | 20.0  | 19.8  | 19.4  | 18.7  | 17.8  | 16.9  | 16.2  | 14.6 | 12.3  | 10.7 |
| 15°   | 27.1  | 26.6  | 25.7  | 24.4  | 23.0  | 21.2  | 19.6  | 18.0  | 15.3 | 11.6  | 9.6  |
| 17.5° | 38.7  | 37.4  | 36.0  | 33.7  | 30.3  | 27.1  | 23.7  | 20.7  | 16.2 | 10.9  | 8.7  |
| 20°   | 69.7  | 68.8  | 60.6  | 54.2  | 44.0  | 36.7  | 29.8  | 24.8  | 17.5 | 10.2  | 7.7  |
| 22.5° | 143.7 | 134.1 | 120.7 | 98.8  | 77.0  | 56.7  | 41.2  | 31.2  | 18.9 | 9.3   | 6.8  |
| 25°   | 259.2 | 244.2 | 215.2 | 173.1 | 127.8 | 90.4  | 59.7  | 40.8  | 21.0 | 8.4   | 5.9  |
| 27.5° | 392.4 | 377.2 | 332.3 | 274.2 | 200.2 | 136.4 | 85.2  | 54.0  | 23.7 | 7.5   | 5.2  |
| 30°   | 534.3 | 521.3 | 464.4 | 384.0 | 282.2 | 191.1 | 114.1 | 67.4  | 26.6 | 6.6   | 4.6  |
| 31°   | 591.5 | 574.8 | 513.4 | 427.7 | 320.7 | 213.6 | 125.7 | 73.1  | 27.8 | 6.4   | 4.3  |
| 32°   | 644.1 | 625.2 | 561.4 | 469.6 | 351.9 | 238.0 | 138.5 | 78.1  | 28.7 | 5.9   | 4.1  |
| 33°   | 689.4 | 667.3 | 605.8 | 509.3 | 386.3 | 260.8 | 151.7 | 82.9  | 29.4 | 5.5   | 3.9  |
| 34°   | 727.9 | 708.8 | 642.7 | 549.1 | 416.8 | 282.6 | 164.7 | 87.7  | 29.8 | 5.2   | 3.6  |
| 35°   | 760.7 | 743.4 | 678.0 | 579.4 | 446.6 | 303.8 | 176.5 | 92.2  | 29.8 | 4.8   | 3.6  |
| 36°   | 782.8 | 767.8 | 708.5 | 610.4 | 471.7 | 321.8 | 186.5 | 96.3  | 29.8 | 4.3   | 3.4  |
| 37°   | 794.9 | 780.3 | 728.6 | 635.9 | 496.3 | 339.6 | 195.6 | 99.5  | 29.6 | 4.1   | 3.2  |
| 38°   | 801.0 | 788.3 | 743.4 | 656.6 | 513.4 | 352.3 | 203.6 | 102.0 | 29.4 | 3.6   | 3.2  |
| 39°   | 802.6 | 791.9 | 752.7 | 671.6 | 530.0 | 365.1 | 209.3 | 103.4 | 28.7 | 3.4   | 3.0  |
| 40°   | 801.5 | 792.1 | 757.7 | 685.1 | 542.7 | 375.1 | 213.4 | 103.9 | 28.0 | 3.0   | 3.0  |
| 41°   | 799.2 | 791.9 | 761.4 | 694.4 | 553.0 | 381.5 | 215.0 | 102.9 | 27.1 | 2.5   | 2.7  |
| 42°   | 797.1 | 789.2 | 763.0 | 700.8 | 560.0 | 384.7 | 214.8 | 101.1 | 25.7 | 2.3   | 2.7  |
| 43°   | 797.1 | 788.0 | 763.2 | 704.9 | 563.5 | 384.9 | 212.0 | 97.7  | 23.9 | 2.0   | 2.5  |
| 44°   | 795.8 | 787.3 | 764.3 | 707.6 | 564.4 | 382.9 | 207.7 | 94.1  | 21.9 | 1.8   | 2.5  |
| 45°   | 793.3 | 784.4 | 764.1 | 707.9 | 562.8 | 377.8 | 200.7 | 89.3  | 20.0 | 1.4   | 2.5  |
| 46°   | 788.5 | 780.5 | 762.1 | 706.3 | 558.0 | 370.6 | 192.2 | 84.5  | 18.0 | 1.1   | 2.3  |
| 47°   | 778.9 | 772.8 | 756.6 | 700.8 | 550.7 | 359.9 | 182.2 | 79.0  | 16.4 | 0.9   | 2.3  |
| 48°   | 762.5 | 758.2 | 747.3 | 688.7 | 536.8 | 346.6 | 171.5 | 73.1  | 14.8 | 0.9   | 2.3  |
| 49°   | 732.5 | 729.0 | 722.7 | 669.4 | 519.1 | 330.5 | 159.9 | 66.5  | 13.2 | 0.7   | 2.3  |
| 50°   | 708.8 | 705.1 | 692.1 | 636.8 | 493.5 | 310.0 | 147.1 | 59.9  | 11.4 | 0.5   | 2.0  |
| 51°   | 693.1 | 687.1 | 666.6 | 599.0 | 456.4 | 282.6 | 133.2 | 53.3  | 9.6  | 0.5   | 2.0  |
| 52°   | 673.2 | 664.4 | 638.8 | 565.1 | 422.5 | 255.3 | 118.2 | 46.7  | 8.4  | 0.5   | 2.0  |
| 53°   | 631.8 | 628.6 | 603.3 | 528.6 | 388.5 | 229.1 | 102.7 | 41.2  | 7.3  | 0.5   | 2.0  |
| 54°   | 595.6 | 590.8 | 556.4 | 478.1 | 351.7 | 200.0 | 86.8  | 36.4  | 6.1  | 0.5   | 2.0  |
| 55°   | 556.4 | 547.1 | 516.5 | 435.5 | 308.4 | 173.1 | 71.5  | 31.4  | 5.0  | 0.5   | 1.8  |
| 56°   | 507.0 | 498.8 | 466.0 | 389.9 | 268.5 | 145.8 | 59.9  | 25.7  | 3.9  | 0.5   | 1.8  |
| 57°   | 446.9 | 439.3 | 414.1 | 333.9 | 227.1 | 119.1 | 48.7  | 20.7  | 3.0  | 0.5   | 1.8  |
| 58°   | 388.8 | 380.3 | 351.4 | 280.1 | 183.3 | 94.5  | 40.8  | 16.9  | 2.3  | 0.5   | 1.8  |
| 59°   | 344.1 | 332.7 | 295.4 | 235.3 | 143.5 | 71.7  | 32.3  | 13.4  | 1.6  | 0.5   | 1.8  |
| 60°   | 307.0 | 297.7 | 259.0 | 195.9 | 112.5 | 52.8  | 23.9  | 10.2  | 0.9  | 0.5   | 1.8  |
| 62.5° | 177.9 | 175.4 | 140.5 | 100.9 | 53.1  | 24.6  | 11.8  | 4.8   | 0.5  | 0.7   | 1.8  |
| 65°   | 53.1  | 46.2  | 36.0  | 21.4  | 13.7  | 8.2   | 4.3   | 1.6   | 0.2  | 0.7   | 1.6  |



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**CANDELA DISTRIBUTION (continued):**

|       | 0°  | 5°  | 10° | 15° | 20° | 25° | 30° | 35° | 45° | 67.5° | 90° |
|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|-----|
| 67.5° | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 0.9 | 0.5 | 0.2 | 0.7   | 1.6 |
| 70°   | 0.9 | 0.7 | 0.7 | 0.7 | 0.7 | 0.5 | 0.5 | 0.2 | 0.2 | 0.7   | 1.4 |
| 72.5° | 0.7 | 0.7 | 0.7 | 0.7 | 0.5 | 0.5 | 0.5 | 0.2 | 0.5 | 0.7   | 1.1 |
| 75°   | 0.7 | 0.5 | 0.5 | 0.5 | 0.5 | 0.2 | 0.2 | 0.2 | 0.5 | 0.7   | 1.1 |
| 77.5° | 0.5 | 0.5 | 0.5 | 0.5 | 0.2 | 0.2 | 0.2 | 0.2 | 0.5 | 0.7   | 1.1 |
| 80°   | 0.5 | 0.5 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.7   | 0.9 |
| 82.5° | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.7   | 0.9 |
| 85°   | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.7   | 0.9 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.2 | 0.2 | 0.7   | 0.7 |
| 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: LDSQA3D02R409027DE010 3LSQCA45R 1MMS

**CANDELA DISTRIBUTION (continued):**

|       | 112.5° | 135° | 157.5° | 180° |
|-------|--------|------|--------|------|
| 0°    | 12.8   | 12.8 | 12.8   | 12.8 |
| 2.5°  | 12.3   | 12.1 | 11.8   | 11.8 |
| 5°    | 11.8   | 11.4 | 11.4   | 11.2 |
| 7.5°  | 11.2   | 10.7 | 10.7   | 10.7 |
| 10°   | 10.5   | 10.2 | 10.2   | 10.0 |
| 12.5° | 9.6    | 9.6  | 9.6    | 9.6  |
| 15°   | 8.9    | 8.9  | 9.1    | 9.1  |
| 17.5° | 8.0    | 8.2  | 8.7    | 8.9  |
| 20°   | 7.3    | 7.7  | 8.2    | 8.4  |
| 22.5° | 6.8    | 7.3  | 8.0    | 8.2  |
| 25°   | 6.1    | 6.8  | 7.7    | 8.0  |
| 27.5° | 5.7    | 6.6  | 7.3    | 7.7  |
| 30°   | 5.2    | 6.4  | 7.1    | 7.5  |
| 31°   | 5.2    | 6.1  | 7.1    | 7.5  |
| 32°   | 5.0    | 5.9  | 7.1    | 7.3  |
| 33°   | 5.0    | 5.9  | 7.1    | 7.3  |
| 34°   | 4.8    | 5.9  | 6.8    | 7.3  |
| 35°   | 4.8    | 5.9  | 6.8    | 7.3  |
| 36°   | 4.6    | 5.7  | 6.8    | 7.3  |
| 37°   | 4.6    | 5.7  | 6.8    | 7.3  |
| 38°   | 4.3    | 5.7  | 6.8    | 7.3  |
| 39°   | 4.3    | 5.7  | 6.8    | 7.3  |
| 40°   | 4.3    | 5.7  | 6.8    | 7.3  |
| 41°   | 4.1    | 5.7  | 6.8    | 7.3  |
| 42°   | 4.1    | 5.7  | 6.8    | 7.3  |
| 43°   | 4.1    | 5.5  | 6.8    | 7.3  |
| 44°   | 4.1    | 5.5  | 6.8    | 7.3  |
| 45°   | 3.9    | 5.5  | 6.8    | 7.3  |
| 46°   | 3.9    | 5.5  | 6.8    | 7.3  |
| 47°   | 3.9    | 5.5  | 6.8    | 7.3  |
| 48°   | 3.9    | 5.5  | 6.8    | 7.3  |
| 49°   | 3.9    | 5.5  | 6.8    | 7.3  |
| 50°   | 3.6    | 5.2  | 6.8    | 7.3  |
| 51°   | 3.6    | 5.2  | 6.8    | 7.3  |
| 52°   | 3.6    | 5.2  | 6.8    | 7.3  |
| 53°   | 3.6    | 5.2  | 6.8    | 7.3  |
| 54°   | 3.4    | 5.2  | 6.8    | 7.3  |
| 55°   | 3.4    | 5.2  | 6.8    | 7.3  |
| 56°   | 3.4    | 5.2  | 6.8    | 7.1  |
| 57°   | 3.4    | 5.2  | 6.6    | 7.1  |
| 58°   | 3.4    | 5.0  | 6.6    | 7.1  |
| 59°   | 3.4    | 5.0  | 6.6    | 7.1  |
| 60°   | 3.4    | 5.0  | 6.6    | 7.1  |
| 62.5° | 3.2    | 5.0  | 6.4    | 6.8  |
| 65°   | 3.0    | 4.6  | 6.4    | 6.6  |



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**CANDELA DISTRIBUTION (continued):**

|       | 112.5° | 135° | 157.5° | 180° |
|-------|--------|------|--------|------|
| 67.5° | 3.0    | 4.3  | 5.9    | 6.4  |
| 70°   | 2.7    | 4.1  | 5.7    | 6.1  |
| 72.5° | 2.3    | 3.9  | 5.2    | 5.7  |
| 75°   | 2.0    | 3.4  | 4.8    | 5.2  |
| 77.5° | 1.8    | 3.0  | 4.3    | 4.6  |
| 80°   | 1.6    | 2.5  | 3.6    | 4.1  |
| 82.5° | 1.1    | 1.8  | 3.0    | 3.2  |
| 85°   | 0.9    | 1.4  | 2.0    | 2.3  |
| 87.5° | 0.7    | 0.7  | 1.1    | 1.1  |
| 90°   | 0.0    | 0.0  | 0.0    | 0.0  |

(END OF REPORT)