

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: P1316554

Luminaire Tested: LDSQA3D13R209740DE010 3LSQCA30R 1MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1316554
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-48)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D13R209740DE010 3LSQCA30R 1MMS
Description: 3in Adjustable LED luminaire with, R20 optic, 4000K CCT AND, 97CRI , 3LSQCA30R 1MMS TRII
Light Source: -
Ballast/Driver: -

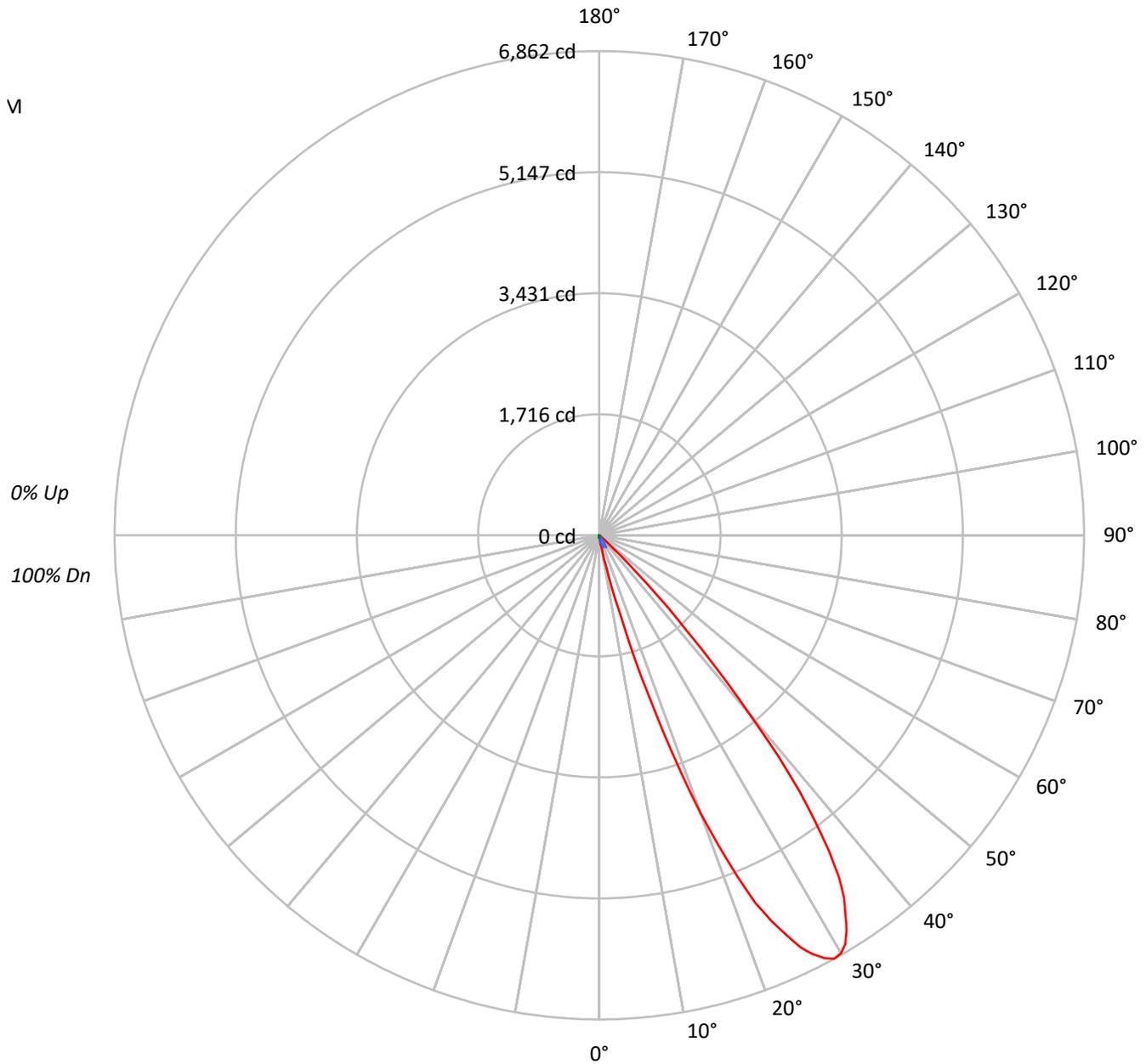
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 947.0 lumens
Efficiency: N/A
Efficacy: 64.9 lumens/watt
Spacing Criteria (0/90/45): 2.28 / 0.42 / 1.12
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 14.6
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

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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 | 0 |
| RCR | | | | | | | | | | | | | | | | | | |
| 0 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |
| 1 | 113 | 109 | 107 | 104 | 110 | 107 | 105 | 102 | 103 | 101 | 99 | 99 | 98 | 96 | 96 | 95 | 93 | 92 |
| 2 | 106 | 100 | 96 | 92 | 104 | 98 | 94 | 91 | 95 | 92 | 89 | 92 | 89 | 87 | 89 | 87 | 85 | 83 |
| 3 | 99 | 92 | 86 | 81 | 97 | 90 | 85 | 81 | 88 | 83 | 79 | 85 | 81 | 78 | 83 | 80 | 77 | 75 |
| 4 | 93 | 84 | 77 | 72 | 91 | 83 | 77 | 72 | 80 | 75 | 71 | 78 | 74 | 70 | 76 | 73 | 69 | 68 |
| 5 | 87 | 77 | 70 | 65 | 85 | 76 | 69 | 64 | 74 | 68 | 64 | 72 | 67 | 63 | 70 | 66 | 63 | 61 |
| 6 | 81 | 70 | 63 | 58 | 79 | 69 | 63 | 58 | 68 | 62 | 57 | 66 | 61 | 57 | 65 | 60 | 57 | 55 |
| 7 | 76 | 64 | 57 | 52 | 74 | 64 | 57 | 52 | 62 | 56 | 52 | 61 | 56 | 51 | 60 | 55 | 51 | 50 |
| 8 | 71 | 59 | 52 | 47 | 69 | 59 | 52 | 47 | 57 | 51 | 47 | 56 | 51 | 46 | 55 | 50 | 46 | 45 |
| 9 | 66 | 54 | 47 | 42 | 65 | 54 | 47 | 42 | 53 | 47 | 42 | 52 | 46 | 42 | 51 | 46 | 42 | 40 |
| 10 | 62 | 50 | 43 | 38 | 60 | 50 | 43 | 38 | 49 | 42 | 38 | 48 | 42 | 38 | 47 | 42 | 38 | 36 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° | 135° | 180° |
|-----|---------|-------|------|------|------|
| 0° | 5838 | 5838 | 5838 | 5838 | 5838 |
| 5° | 12707 | 8955 | 5377 | 2438 | 1798 |
| 10° | 31618 | 15809 | 3795 | 490 | 0 |
| 15° | 222498 | 21663 | 2175 | 0 | 0 |
| 20° | 768987 | 36417 | 861 | 0 | 0 |
| 25° | 1185329 | 46538 | 361 | 0 | 0 |
| 30° | 1360519 | 35955 | 0 | 0 | 0 |
| 35° | 1242548 | 13666 | 0 | 0 | 0 |
| 40° | 744898 | 6362 | 0 | 0 | 0 |
| 45° | 183059 | 2971 | 0 | 0 | 0 |
| 50° | 20175 | 750 | 0 | 0 | 0 |
| 55° | 2822 | 0 | 270 | 0 | 0 |
| 60° | 0 | 0 | 654 | 0 | 0 |
| 65° | 0 | 0 | 774 | 0 | 0 |
| 70° | 0 | 453 | 1410 | 0 | 0 |
| 75° | 0 | 599 | 1863 | 0 | 0 |
| 80° | 0 | 893 | 2777 | 0 | 0 |
| 85° | 0 | 1778 | 5533 | 0 | 0 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 1°
 Vertical Angle: 45°
 Luminance: 195213 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 3.8 | 0.4 |
| 10°-20° | 74.0 | 7.8 |
| 20°-30° | 374.1 | 39.5 |
| 30°-40° | 404.8 | 42.7 |
| 40°-50° | 85.5 | 9.0 |
| 50°-60° | 2.6 | 0.3 |
| 60°-70° | 0.6 | 0.1 |
| 70°-80° | 0.9 | 0.1 |
| 80°-90° | 0.8 | 0.1 |
| 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° | 451.9 | 47.7 |
| 0°-40° | 856.7 | 90.5 |
| 0°-60° | 944.7 | 99.8 |
| 0°-90° | 947.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 947.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|-----|-----|------|------|------|
| 0° | 34 | 34 | 34 | 34 | 34 | |
| 5° | 74 | 52 | 31 | 14 | 10 | 10 |
| 15° | 1248 | 122 | 12 | 0 | 0 | 520 |
| 25° | 6238 | 245 | 2 | 0 | 0 | 2819 |
| 35° | 5910 | 65 | 0 | 0 | 0 | 3485 |
| 45° | 752 | 12 | 0 | 0 | 0 | 827 |
| 55° | 9 | 0 | 1 | 0 | 0 | 17 |
| 65° | 0 | 0 | 2 | 0 | 0 | 0 |
| 75° | 0 | 1 | 3 | 0 | 0 | 0 |
| 85° | 0 | 1 | 3 | 0 | 0 | 0 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P1316554
 CATALOG NUMBER: LDSQA3D13R209740DE010 3LSQCA30R 1MMS

CANDELA DISTRIBUTION (FULL):

| | 0° | 1° | 2° | 3° | 4° | 5° | 6° | 7° | 8° | 9° | 10° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 33.9 | 33.9 | 33.9 | 33.9 | 33.9 | 33.9 | 33.9 | 33.9 | 33.9 | 33.9 | 33.9 |
| 2.5° | 46.1 | 45.2 | 46.1 | 45.2 | 46.1 | 46.1 | 46.1 | 45.2 | 45.2 | 45.2 | 45.2 |
| 5° | 73.5 | 73.5 | 72.5 | 73.5 | 73.5 | 73.5 | 73.5 | 72.5 | 72.5 | 71.6 | 71.6 |
| 7.5° | 115.8 | 115.8 | 114.9 | 114.9 | 115.8 | 116.8 | 113.0 | 114.9 | 114.9 | 114.9 | 114.0 |
| 10° | 180.8 | 184.6 | 180.8 | 185.5 | 181.8 | 178.9 | 183.7 | 178.9 | 178.9 | 178.0 | 175.2 |
| 12.5° | 455.8 | 445.5 | 438.9 | 422.9 | 438.9 | 426.6 | 429.5 | 426.6 | 417.2 | 405.0 | 397.5 |
| 15° | 1247.9 | 1247.9 | 1211.2 | 1260.2 | 1224.4 | 1237.6 | 1169.7 | 1170.7 | 1135.8 | 1098.2 | 1077.4 |
| 17.5° | 2608.9 | 2632.4 | 2607.9 | 2592.8 | 2560.8 | 2514.7 | 2495.8 | 2447.8 | 2384.7 | 2311.2 | 2302.8 |
| 20° | 4195.8 | 4096.9 | 4143.1 | 4100.7 | 4074.3 | 4017.8 | 3954.7 | 3915.2 | 3859.6 | 3766.4 | 3628.9 |
| 21° | 4695.0 | 4691.2 | 4690.3 | 4689.3 | 4650.7 | 4558.4 | 4501.0 | 4421.9 | 4343.7 | 4247.6 | 4132.7 |
| 22° | 5197.9 | 5215.8 | 5223.4 | 5168.7 | 5089.6 | 5048.2 | 5008.6 | 4900.3 | 4776.9 | 4727.0 | 4590.5 |
| 23° | 5659.4 | 5642.5 | 5593.5 | 5568.1 | 5506.8 | 5494.6 | 5376.9 | 5308.1 | 5187.6 | 5132.9 | 4971.0 |
| 24° | 5974.0 | 5965.5 | 5942.9 | 5905.2 | 5856.3 | 5780.9 | 5710.3 | 5602.0 | 5503.1 | 5413.6 | 5262.9 |
| 25° | 6237.7 | 6245.2 | 6203.8 | 6178.4 | 6125.6 | 6040.9 | 5954.2 | 5835.5 | 5743.2 | 5638.7 | 5464.5 |
| 26° | 6498.6 | 6445.8 | 6412.9 | 6375.2 | 6317.8 | 6220.8 | 6136.9 | 6030.5 | 5918.4 | 5801.6 | 5631.2 |
| 27° | 6659.6 | 6612.6 | 6562.6 | 6525.9 | 6460.0 | 6367.7 | 6278.2 | 6160.5 | 6035.2 | 5917.5 | 5742.3 |
| 28° | 6786.8 | 6735.0 | 6686.0 | 6641.7 | 6566.4 | 6467.5 | 6360.1 | 6240.5 | 6110.6 | 5989.1 | 5810.1 |
| 29° | 6862.1 | 6800.9 | 6748.2 | 6698.3 | 6629.5 | 6522.1 | 6413.8 | 6285.7 | 6160.5 | 6033.3 | 5850.6 |
| 30° | 6841.4 | 6788.7 | 6737.8 | 6687.0 | 6617.3 | 6516.5 | 6409.1 | 6286.7 | 6160.5 | 6035.2 | 5849.7 |
| 31° | 6760.4 | 6695.4 | 6658.7 | 6607.8 | 6547.6 | 6444.9 | 6352.6 | 6218.9 | 6104.9 | 5969.3 | 5783.7 |
| 32° | 6605.0 | 6563.6 | 6514.6 | 6475.0 | 6416.7 | 6307.4 | 6217.0 | 6107.7 | 5973.1 | 5861.9 | 5667.0 |
| 33° | 6394.0 | 6355.4 | 6330.9 | 6284.8 | 6228.3 | 6152.9 | 6044.6 | 5944.8 | 5793.2 | 5679.2 | 5484.2 |
| 34° | 6192.5 | 6143.5 | 6082.3 | 6069.1 | 6020.1 | 5923.1 | 5825.2 | 5723.5 | 5587.8 | 5442.8 | 5246.0 |
| 35° | 5910.0 | 5859.1 | 5802.6 | 5807.3 | 5748.9 | 5635.9 | 5536.0 | 5422.1 | 5293.1 | 5122.6 | 4936.1 |
| 36° | 5532.3 | 5498.4 | 5489.9 | 5467.3 | 5400.4 | 5265.7 | 5170.6 | 5027.5 | 4919.2 | 4711.0 | 4550.9 |
| 37° | 5071.7 | 5084.0 | 5022.8 | 4993.6 | 4915.4 | 4821.2 | 4767.5 | 4583.9 | 4457.7 | 4301.3 | 4084.7 |
| 38° | 4606.5 | 4588.6 | 4516.0 | 4533.9 | 4426.6 | 4328.6 | 4177.0 | 4067.7 | 3926.5 | 3781.4 | 3608.1 |
| 39° | 4025.4 | 3981.1 | 3894.4 | 3898.2 | 3817.2 | 3707.0 | 3560.1 | 3431.1 | 3346.3 | 3206.9 | 3041.2 |
| 40° | 3313.3 | 3294.5 | 3264.4 | 3214.4 | 3108.0 | 3060.0 | 2929.1 | 2789.7 | 2718.1 | 2525.0 | 2444.0 |
| 42.5° | 1838.4 | 1813.0 | 1762.2 | 1744.3 | 1687.8 | 1631.2 | 1555.0 | 1461.7 | 1416.5 | 1359.1 | 1231.0 |
| 45° | 751.6 | 801.5 | 789.2 | 775.1 | 731.8 | 734.6 | 680.0 | 686.6 | 636.7 | 602.8 | 579.2 |
| 47.5° | 165.8 | 179.9 | 180.8 | 174.2 | 180.8 | 175.2 | 172.4 | 167.6 | 168.6 | 171.4 | 164.8 |
| 50° | 75.3 | 74.4 | 76.3 | 75.3 | 74.4 | 73.5 | 72.5 | 69.7 | 71.6 | 69.7 | 67.8 |
| 52.5° | 29.2 | 30.1 | 30.1 | 28.3 | 29.2 | 29.2 | 29.2 | 28.3 | 28.3 | 28.3 | 28.3 |
| 55° | 9.4 | 9.4 | 9.4 | 8.5 | 8.5 | 9.4 | 9.4 | 9.4 | 9.4 | 9.4 | 8.5 |
| 57.5° | 0.9 | 1.9 | 0.9 | 1.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 1.9 | 1.9 |
| 60° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 62.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 65° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 67.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 70° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 72.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 75° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 77.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 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):

| | 0° | 1° | 2° | 3° | 4° | 5° | 6° | 7° | 8° | 9° | 10° |
|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 82.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 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: LDSQA3D13R209740DE010 3LSQCA30R 1MMS

CANDELA DISTRIBUTION (continued):

| | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° |
|-------|--------|-------|-------|------|--------|------|--------|------|
| 0° | 33.9 | 33.9 | 33.9 | 33.9 | 33.9 | 33.9 | 33.9 | 33.9 |
| 2.5° | 43.3 | 39.6 | 36.7 | 33.9 | 28.3 | 23.5 | 21.7 | 21.7 |
| 5° | 66.9 | 51.8 | 38.6 | 31.1 | 21.7 | 14.1 | 11.3 | 10.4 |
| 7.5° | 100.8 | 69.7 | 40.5 | 26.4 | 14.1 | 7.5 | 4.7 | 3.8 |
| 10° | 146.0 | 90.4 | 42.4 | 21.7 | 8.5 | 2.8 | 0.0 | 0.0 |
| 12.5° | 255.2 | 108.3 | 42.4 | 17.0 | 3.8 | 0.0 | 0.0 | 0.0 |
| 15° | 584.9 | 121.5 | 40.5 | 12.2 | 0.9 | 0.0 | 0.0 | 0.0 |
| 17.5° | 1215.0 | 152.6 | 35.8 | 8.5 | 0.0 | 0.0 | 0.0 | 0.0 |
| 20° | 1940.2 | 198.7 | 28.3 | 4.7 | 0.0 | 0.0 | 0.0 | 0.0 |
| 21° | 2238.7 | 214.7 | 25.4 | 3.8 | 0.0 | 0.0 | 0.0 | 0.0 |
| 22° | 2453.5 | 229.8 | 22.6 | 2.8 | 0.0 | 0.0 | 0.0 | 0.0 |
| 23° | 2689.9 | 239.2 | 19.8 | 1.9 | 0.0 | 0.0 | 0.0 | 0.0 |
| 24° | 2864.1 | 244.9 | 17.0 | 1.9 | 0.0 | 0.0 | 0.0 | 0.0 |
| 25° | 2972.4 | 244.9 | 15.1 | 1.9 | 0.0 | 0.0 | 0.0 | 0.0 |
| 26° | 3036.4 | 239.2 | 13.2 | 0.9 | 0.0 | 0.0 | 0.0 | 0.0 |
| 27° | 3051.5 | 229.8 | 11.3 | 0.9 | 0.0 | 0.0 | 0.0 | 0.0 |
| 28° | 3032.7 | 217.6 | 9.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 29° | 2973.3 | 199.7 | 8.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 30° | 2909.3 | 180.8 | 6.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 31° | 2800.0 | 155.4 | 5.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 32° | 2673.8 | 129.0 | 4.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 33° | 2505.3 | 101.7 | 3.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 34° | 2256.6 | 80.1 | 3.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 35° | 2033.4 | 65.0 | 2.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 36° | 1741.4 | 51.8 | 2.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 37° | 1491.9 | 43.3 | 2.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 38° | 1248.9 | 36.7 | 1.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 39° | 1013.4 | 32.0 | 1.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 40° | 808.1 | 28.3 | 1.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 42.5° | 436.1 | 18.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 45° | 241.1 | 12.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 47.5° | 106.4 | 6.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 50° | 35.8 | 2.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 52.5° | 17.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 55° | 8.5 | 0.0 | 0.0 | 0.9 | 0.0 | 0.0 | 0.0 | 0.0 |
| 57.5° | 1.9 | 0.0 | 0.0 | 0.9 | 0.0 | 0.0 | 0.0 | 0.0 |
| 60° | 0.0 | 0.0 | 0.9 | 1.9 | 0.0 | 0.0 | 0.0 | 0.0 |
| 62.5° | 0.0 | 0.0 | 0.9 | 1.9 | 0.9 | 0.0 | 0.0 | 0.0 |
| 65° | 0.0 | 0.0 | 1.9 | 1.9 | 0.9 | 0.0 | 0.0 | 0.0 |
| 67.5° | 0.0 | 0.9 | 1.9 | 2.8 | 0.9 | 0.0 | 0.0 | 0.0 |
| 70° | 0.0 | 0.9 | 1.9 | 2.8 | 0.9 | 0.0 | 0.0 | 0.0 |
| 72.5° | 0.0 | 0.9 | 1.9 | 2.8 | 0.9 | 0.0 | 0.0 | 0.0 |
| 75° | 0.0 | 0.9 | 1.9 | 2.8 | 0.9 | 0.0 | 0.0 | 0.0 |
| 77.5° | 0.0 | 0.9 | 1.9 | 2.8 | 0.9 | 0.0 | 0.0 | 0.0 |
| 80° | 0.0 | 0.9 | 1.9 | 2.8 | 0.9 | 0.0 | 0.0 | 0.0 |



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CATALOG NUMBER: LDSQA3D13R209740DE010 3LSQCA30R 1MMS

CANDELA DISTRIBUTION (continued):

| | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° |
|-------|-------|-----|-------|-----|--------|------|--------|------|
| 82.5° | 0.0 | 0.9 | 1.9 | 2.8 | 0.9 | 0.0 | 0.0 | 0.0 |
| 85° | 0.0 | 0.9 | 1.9 | 2.8 | 0.9 | 0.0 | 0.0 | 0.0 |
| 87.5° | 0.0 | 0.9 | 1.9 | 2.8 | 0.9 | 0.0 | 0.0 | 0.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)