

Scaled data based on original data using

LM-41-14 Approved Method for Photometric Testing Of Indoor Fluorescent Luminaires

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: io LED

Report Number: P182682

Luminaire Tested: **LDSQA4A09927D010TE LAR15SP 4LSQA1H 30°**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P182682  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P26799)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LDSQA4A09927D010TE LAR15SP 4LSQA1H 30°  
Description: PORTFOLIO 4" SQUARE ADJUSTABLE REFLECTOR, ANGLE-CUT TRIM,  
SELF-FLANGED, 15° SPOT, 30° Tilt  
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 811.1 lumens  
Efficiency: N/A  
Efficacy: 58.6 lumens/watt  
Spacing Criteria (0/90/45): 2.24 / 0.6 / 1.1  
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')  
CIE Type: Direct

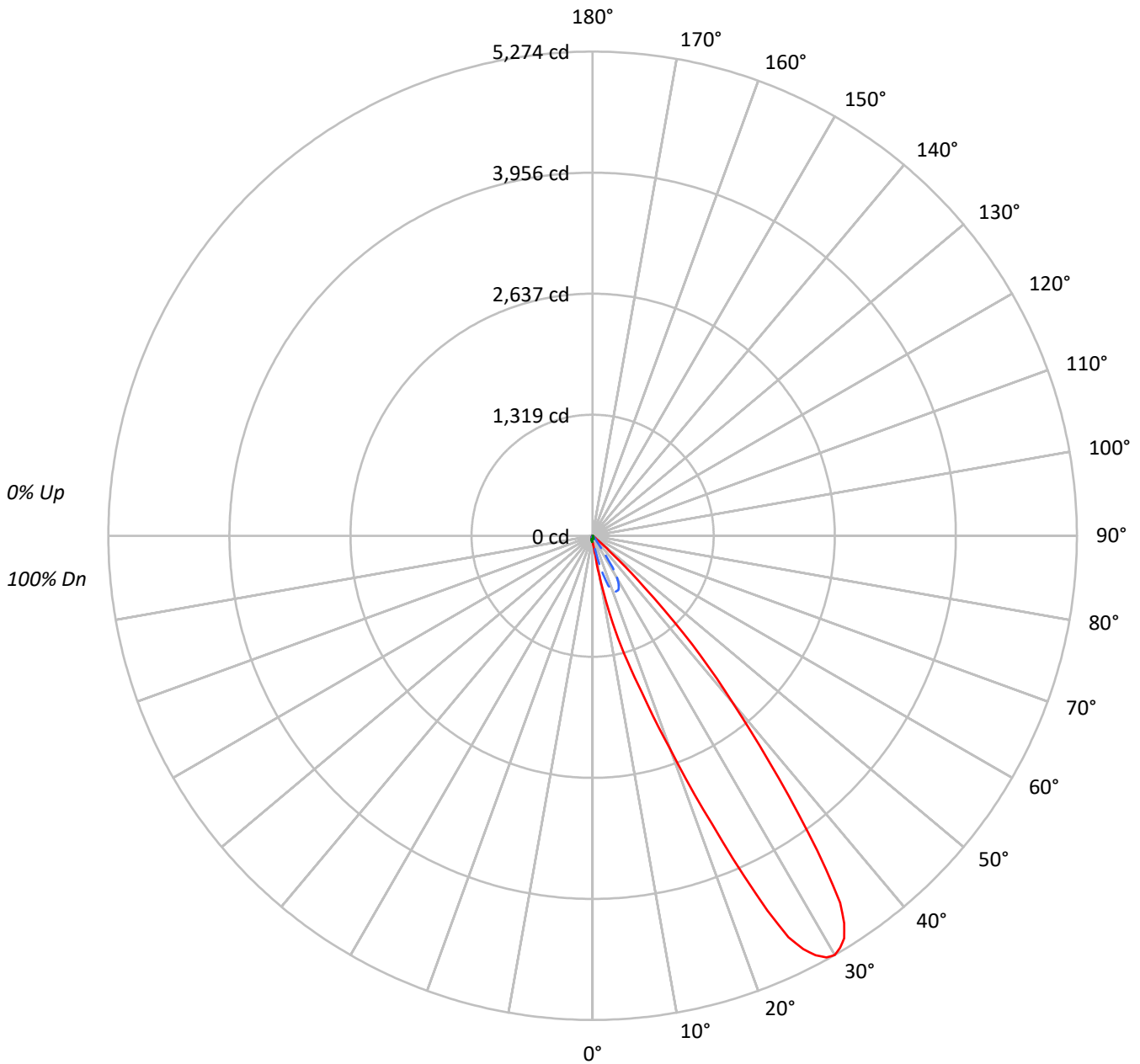
Input Watts (W): 13.84  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|---|--|--|--|--|--|--|----|--|--|--|--|--|--|--|--|---|
| RF  | 20  |     |     |     |     |     |     |     |     | 20  |     |     |     |     |     |     |     |     | 20 |    |   |  |  |  |  |  |  | 20 |  |  |  |  |  |  |  |  |   |
| RC  | 80  |     |     |     |     |     |     |     |     | 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 | 100 |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 1   | 113 | 109 | 106 | 104 | 110 | 107 | 105 | 102 | 103 | 101 | 99  | 99  | 98  | 96  | 96  | 95  | 93  | 91  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 2   | 106 | 100 | 95  | 91  | 103 | 98  | 94  | 90  | 95  | 91  | 88  | 92  | 89  | 86  | 89  | 87  | 85  | 83  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 3   | 99  | 92  | 86  | 81  | 97  | 90  | 85  | 80  | 87  | 83  | 79  | 85  | 81  | 78  | 83  | 79  | 77  | 75  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 4   | 93  | 84  | 77  | 72  | 91  | 83  | 76  | 72  | 80  | 75  | 71  | 78  | 74  | 70  | 76  | 72  | 69  | 67  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 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  | 65  | 57  | 52  | 74  | 64  | 57  | 52  | 62  | 56  | 52  | 61  | 56  | 52  | 60  | 55  | 51  | 50  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 8   | 71  | 59  | 52  | 47  | 69  | 59  | 52  | 47  | 57  | 51  | 47  | 56  | 51  | 47  | 55  | 50  | 46  | 45  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 9   | 66  | 55  | 48  | 43  | 65  | 54  | 47  | 43  | 53  | 47  | 43  | 52  | 46  | 42  | 51  | 46  | 42  | 41  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 10  | 62  | 50  | 43  | 39  | 61  | 50  | 43  | 39  | 49  | 43  | 39  | 48  | 42  | 38  | 47  | 42  | 38  | 37  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |

**AVERAGE LUMINANCE (cd/sqm):**

|     | 0°     | 90°  | 180° |
|-----|--------|------|------|
| 0°  | 6772   | 6772 | 6772 |
| 5°  | 11280  | 6389 | 5455 |
| 10° | 48103  | 5597 | 4732 |
| 15° | 133149 | 4453 | 4202 |
| 20° | 255391 | 3155 | 3753 |
| 25° | 481530 | 2106 | 3314 |
| 30° | 589961 | 1409 | 2908 |
| 35° | 523953 | 946  | 2472 |
| 40° | 298614 | 632  | 2061 |
| 45° | 108931 | 521  | 1726 |
| 50° | 11982  | 377  | 1447 |
| 55° | 1773   | 287  | 1199 |
| 60° | 407    | 329  | 969  |
| 65° | 298    | 390  | 665  |
| 70° | 227    | 482  | 595  |
| 75° | 299    | 636  | 487  |
| 80° | 0      | 948  | 446  |
| 85° | 0      | 1445 | 445  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 8.8    | 1.1       |
| 10°-20°   | 87.9   | 10.8      |
| 20°-30°   | 288.7  | 35.6      |
| 30°-40°   | 316.5  | 39.0      |
| 40°-50°   | 98.9   | 12.2      |
| 50°-60°   | 5.4    | 0.7       |
| 60°-70°   | 2.2    | 0.3       |
| 70°-80°   | 1.7    | 0.2       |
| 80°-90°   | 1.0    | 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°    | 385.3  | 47.5      |
| 0°-40°    | 701.9  | 86.5      |
| 0°-60°    | 806.2  | 99.4      |
| 0°-90°    | 811.1  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 811.1  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45° | 90° | 135° | 180° | Flux |
|-----|------|-----|-----|------|------|------|
| 0°  | 70   | 70  | 70  | 70   | 70   |      |
| 5°  | 116  | 93  | 66  | 58   | 56   | 22   |
| 15° | 1328 | 427 | 44  | 40   | 42   | 417  |
| 25° | 4505 | 655 | 20  | 24   | 31   | 2008 |
| 35° | 4430 | 129 | 8   | 14   | 21   | 2590 |
| 45° | 795  | 13  | 4   | 8    | 13   | 730  |
| 55° | 10   | 2   | 2   | 5    | 7    | 16   |
| 65° | 1    | 1   | 2   | 3    | 3    | 1    |
| 75° | 1    | 1   | 2   | 2    | 1    | 1    |
| 85° | 0    | 1   | 1   | 1    | 0    | 0    |
| 90° | 0    | 0   | 0   | 0    | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 10°    | 15°    | 20°    | 22.5°  | 25°    | 30°    | 35°    | 40°   | 45°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|
| 0°    | 69.9   | 69.9   | 69.9   | 69.9   | 69.9   | 69.9   | 69.9   | 69.9   | 69.9   | 69.9  | 69.9  |
| 2.5°  | 86.2   | 87.1   | 87.5   | 85.4   | 85.8   | 85.0   | 85.8   | 84.2   | 81.2   | 82.1  | 79.5  |
| 5°    | 116.0  | 114.3  | 113.9  | 110.5  | 109.7  | 108.0  | 108.0  | 104.2  | 98.8   | 98.0  | 92.9  |
| 7.5°  | 205.1  | 196.4  | 188.8  | 177.5  | 166.6  | 158.3  | 154.9  | 141.5  | 126.9  | 121.4 | 109.7 |
| 10°   | 489.0  | 487.3  | 468.5  | 432.9  | 391.9  | 362.1  | 345.0  | 293.1  | 227.3  | 187.1 | 145.3 |
| 12.5° | 890.1  | 881.7  | 854.9  | 789.6  | 718.9  | 674.5  | 639.7  | 535.1  | 437.5  | 359.2 | 257.5 |
| 15°   | 1327.6 | 1293.7 | 1254.3 | 1153.0 | 1053.8 | 996.0  | 946.6  | 821.0  | 669.9  | 557.2 | 426.6 |
| 17.5° | 1794.8 | 1809.9 | 1714.5 | 1539.9 | 1363.6 | 1273.2 | 1189.4 | 996.4  | 831.1  | 713.8 | 566.9 |
| 20°   | 2477.3 | 2445.4 | 2277.6 | 1988.3 | 1728.3 | 1577.1 | 1458.2 | 1179.8 | 930.3  | 784.2 | 645.2 |
| 22.5° | 3399.6 | 3298.3 | 2970.9 | 2481.5 | 2069.1 | 1859.3 | 1690.6 | 1315.5 | 1013.6 | 820.2 | 657.7 |
| 25°   | 4504.9 | 4411.1 | 3804.9 | 2955.8 | 2345.8 | 2074.1 | 1844.7 | 1401.7 | 1047.1 | 826.0 | 655.2 |
| 26°   | 4865.8 | 4726.4 | 4112.6 | 3124.5 | 2430.8 | 2128.5 | 1882.8 | 1418.5 | 1047.9 | 821.4 | 644.3 |
| 27°   | 5052.5 | 4943.2 | 4367.1 | 3261.4 | 2489.0 | 2162.8 | 1904.1 | 1422.6 | 1039.6 | 811.0 | 627.6 |
| 28°   | 5175.6 | 5073.4 | 4528.3 | 3351.0 | 2518.7 | 2176.2 | 1910.4 | 1413.4 | 1020.7 | 792.5 | 601.2 |
| 29°   | 5251.8 | 5144.2 | 4607.0 | 3391.6 | 2520.8 | 2170.4 | 1898.7 | 1389.1 | 995.2  | 770.4 | 570.6 |
| 30°   | 5274.0 | 5157.6 | 4609.1 | 3374.9 | 2489.8 | 2139.0 | 1865.6 | 1349.8 | 964.2  | 742.3 | 536.7 |
| 31°   | 5234.6 | 5114.5 | 4533.3 | 3298.7 | 2426.2 | 2077.9 | 1813.7 | 1297.9 | 925.7  | 712.6 | 484.4 |
| 32°   | 5169.3 | 5009.8 | 4374.7 | 3172.3 | 2339.1 | 2004.2 | 1748.8 | 1241.4 | 884.6  | 674.9 | 410.7 |
| 33°   | 5030.3 | 4837.7 | 4131.8 | 3013.6 | 2234.4 | 1919.6 | 1673.0 | 1178.6 | 845.7  | 610.0 | 305.2 |
| 34°   | 4821.4 | 4578.1 | 3834.2 | 2828.9 | 2116.0 | 1814.1 | 1585.9 | 1120.4 | 805.1  | 524.2 | 208.9 |
| 35°   | 4430.4 | 4203.9 | 3505.5 | 2632.2 | 1988.3 | 1711.9 | 1490.0 | 1044.2 | 749.8  | 420.3 | 129.0 |
| 36°   | 3992.8 | 3826.2 | 3186.9 | 2432.0 | 1857.6 | 1606.0 | 1391.2 | 988.1  | 668.2  | 309.4 | 87.5  |
| 37°   | 3545.7 | 3397.9 | 2886.3 | 2235.3 | 1726.6 | 1488.8 | 1290.8 | 924.4  | 571.1  | 206.4 | 70.3  |
| 38°   | 3119.9 | 3002.7 | 2600.8 | 2041.8 | 1590.5 | 1366.1 | 1185.3 | 856.6  | 466.4  | 132.7 | 57.8  |
| 39°   | 2728.9 | 2641.0 | 2321.1 | 1854.7 | 1454.0 | 1246.0 | 1083.9 | 771.2  | 355.9  | 94.6  | 48.1  |
| 40°   | 2361.3 | 2299.3 | 2051.5 | 1670.1 | 1318.4 | 1127.9 | 992.2  | 667.8  | 247.0  | 74.9  | 38.9  |
| 42.5° | 1606.0 | 1590.5 | 1443.6 | 1202.0 | 979.3  | 867.9  | 784.6  | 375.5  | 95.0   | 45.2  | 21.8  |
| 45°   | 795.1  | 805.9  | 747.3  | 687.5  | 641.0  | 607.1  | 494.4  | 156.6  | 52.8   | 24.7  | 13.4  |
| 47.5° | 281.3  | 281.8  | 242.4  | 216.0  | 206.4  | 205.6  | 149.5  | 55.3   | 28.1   | 15.1  | 9.6   |
| 50°   | 79.5   | 85.8   | 80.8   | 82.5   | 64.5   | 54.8   | 44.8   | 26.8   | 14.2   | 9.6   | 6.3   |
| 51°   | 49.0   | 52.8   | 49.4   | 51.1   | 44.4   | 39.8   | 33.5   | 20.1   | 11.3   | 8.0   | 5.9   |
| 52°   | 31.4   | 33.5   | 31.8   | 32.2   | 29.7   | 26.0   | 22.6   | 14.7   | 9.2    | 6.7   | 5.0   |
| 53°   | 21.4   | 22.6   | 21.4   | 21.4   | 19.7   | 18.4   | 15.9   | 10.9   | 7.5    | 5.4   | 3.8   |
| 54°   | 14.7   | 15.1   | 15.1   | 15.1   | 13.8   | 13.0   | 11.3   | 8.4    | 6.3    | 5.0   | 3.3   |
| 55°   | 10.5   | 10.9   | 10.5   | 10.5   | 10.0   | 9.2    | 8.4    | 6.3    | 5.0    | 4.2   | 2.5   |
| 57.5° | 4.6    | 4.6    | 4.6    | 5.0    | 4.6    | 4.6    | 4.2    | 3.8    | 3.3    | 2.5   | 1.7   |
| 60°   | 2.1    | 2.1    | 2.1    | 2.1    | 2.5    | 2.5    | 2.5    | 2.5    | 2.1    | 1.7   | 1.7   |
| 61°   | 1.7    | 1.7    | 1.7    | 1.7    | 1.7    | 2.1    | 2.1    | 2.1    | 1.7    | 1.7   | 1.3   |
| 62°   | 1.3    | 1.3    | 1.3    | 1.3    | 1.7    | 1.7    | 1.7    | 1.7    | 1.7    | 1.3   | 1.3   |
| 63°   | 1.3    | 1.3    | 1.3    | 1.3    | 1.3    | 1.3    | 1.7    | 1.7    | 1.3    | 1.3   | 1.3   |
| 64°   | 1.3    | 1.3    | 1.3    | 1.3    | 1.3    | 1.3    | 1.3    | 1.3    | 1.3    | 1.3   | 1.3   |
| 65°   | 1.3    | 0.8    | 0.8    | 0.8    | 0.8    | 1.3    | 1.3    | 1.3    | 1.3    | 1.3   | 1.3   |
| 66°   | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 1.3   | 1.3   |



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**CANDELA DISTRIBUTION (continued):**

|       | 0°  | 5°  | 10° | 15° | 20° | 22.5° | 25° | 30° | 35° | 40° | 45° |
|-------|-----|-----|-----|-----|-----|-------|-----|-----|-----|-----|-----|
| 72.5° | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8   | 0.8 | 0.8 | 0.8 | 0.8 | 1.3 |
| 75°   | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8   | 0.8 | 0.8 | 0.8 | 0.8 | 1.3 |
| 77.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.4 | 0.4   | 0.4 | 0.4 | 0.8 | 0.8 | 1.3 |
| 80°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.4 | 0.4   | 0.4 | 0.4 | 0.8 | 0.8 | 1.3 |
| 82.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.4 | 0.4   | 0.4 | 0.4 | 0.8 | 0.8 | 1.3 |
| 85°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.4 | 0.4   | 0.4 | 0.4 | 0.8 | 0.8 | 1.3 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.4 | 0.4   | 0.4 | 0.4 | 0.8 | 0.8 | 1.3 |
| 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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**CANDELA DISTRIBUTION (continued):**

|       | 50°   | 55°   | 60°   | 65°   | 67.5° | 70°  | 75°  | 80°  | 85°  | 90°  | 95°  |
|-------|-------|-------|-------|-------|-------|------|------|------|------|------|------|
| 0°    | 69.9  | 69.9  | 69.9  | 69.9  | 69.9  | 69.9 | 69.9 | 69.9 | 69.9 | 69.9 | 69.9 |
| 2.5°  | 77.9  | 77.5  | 75.4  | 73.3  | 73.7  | 72.8 | 72.0 | 70.8 | 69.9 | 67.8 | 67.8 |
| 5°    | 88.8  | 86.7  | 82.1  | 77.9  | 77.5  | 75.8 | 73.3 | 70.8 | 68.7 | 65.7 | 64.9 |
| 7.5°  | 101.3 | 95.5  | 87.9  | 81.2  | 80.0  | 77.5 | 72.8 | 69.5 | 65.7 | 62.0 | 60.7 |
| 10°   | 119.3 | 105.5 | 92.5  | 82.5  | 80.0  | 76.2 | 70.3 | 65.7 | 61.5 | 56.9 | 55.3 |
| 12.5° | 183.4 | 130.2 | 98.4  | 82.5  | 77.9  | 73.3 | 66.1 | 60.7 | 55.7 | 50.7 | 49.0 |
| 15°   | 305.6 | 208.1 | 124.8 | 82.5  | 74.1  | 68.7 | 59.9 | 54.4 | 49.0 | 44.4 | 42.7 |
| 17.5° | 422.0 | 296.0 | 173.7 | 92.9  | 74.5  | 63.2 | 52.3 | 46.5 | 41.9 | 37.3 | 36.0 |
| 20°   | 489.4 | 345.0 | 206.0 | 103.4 | 73.7  | 56.9 | 44.8 | 38.5 | 33.9 | 30.6 | 29.3 |
| 22.5° | 498.2 | 347.1 | 198.9 | 92.5  | 62.0  | 47.3 | 37.3 | 31.4 | 27.6 | 24.7 | 23.9 |
| 25°   | 474.8 | 306.5 | 159.1 | 65.7  | 46.1  | 38.5 | 29.3 | 25.1 | 22.2 | 19.7 | 19.3 |
| 26°   | 456.8 | 282.2 | 138.6 | 54.4  | 40.6  | 34.3 | 26.4 | 22.6 | 20.1 | 18.0 | 17.6 |
| 27°   | 431.2 | 256.2 | 118.5 | 45.2  | 36.0  | 31.0 | 23.4 | 20.5 | 18.4 | 16.3 | 16.3 |
| 28°   | 402.3 | 228.2 | 95.5  | 38.1  | 32.2  | 27.6 | 21.4 | 18.4 | 16.3 | 15.1 | 15.1 |
| 29°   | 367.6 | 187.6 | 69.9  | 33.1  | 28.5  | 24.3 | 18.8 | 16.3 | 14.7 | 13.8 | 13.8 |
| 30°   | 316.1 | 136.1 | 48.1  | 28.9  | 24.7  | 21.4 | 16.7 | 14.7 | 13.4 | 12.6 | 12.6 |
| 31°   | 247.0 | 83.7  | 37.7  | 25.1  | 21.8  | 18.8 | 15.1 | 13.0 | 12.1 | 11.3 | 11.7 |
| 32°   | 168.3 | 52.3  | 32.2  | 21.8  | 19.3  | 16.3 | 13.4 | 11.7 | 10.9 | 10.5 | 10.5 |
| 33°   | 95.9  | 43.5  | 28.1  | 18.8  | 16.3  | 14.2 | 11.7 | 10.5 | 10.0 | 9.6  | 9.6  |
| 34°   | 63.6  | 37.3  | 24.3  | 15.9  | 13.4  | 12.1 | 10.0 | 9.2  | 8.8  | 8.8  | 8.8  |
| 35°   | 53.6  | 32.2  | 19.7  | 13.4  | 11.7  | 10.5 | 8.8  | 8.4  | 8.0  | 8.0  | 8.4  |
| 36°   | 45.2  | 26.8  | 15.9  | 11.3  | 10.0  | 9.2  | 8.0  | 7.5  | 7.1  | 7.1  | 7.5  |
| 37°   | 38.1  | 21.4  | 13.4  | 9.6   | 8.4   | 8.0  | 7.1  | 6.7  | 6.7  | 6.7  | 7.1  |
| 38°   | 31.0  | 17.2  | 11.3  | 8.4   | 7.5   | 6.7  | 6.3  | 5.9  | 5.9  | 6.3  | 6.7  |
| 39°   | 24.3  | 13.8  | 9.2   | 7.1   | 6.3   | 5.9  | 5.4  | 5.4  | 5.4  | 5.4  | 5.9  |
| 40°   | 19.3  | 11.7  | 8.0   | 6.3   | 5.4   | 5.4  | 5.0  | 4.6  | 5.0  | 5.0  | 5.9  |
| 42.5° | 12.1  | 8.4   | 5.9   | 4.6   | 4.2   | 4.2  | 3.8  | 3.8  | 3.8  | 4.2  | 4.6  |
| 45°   | 8.8   | 6.7   | 4.6   | 3.8   | 3.3   | 2.9  | 2.9  | 2.9  | 3.3  | 3.8  | 4.2  |
| 47.5° | 6.7   | 4.6   | 3.3   | 2.5   | 2.1   | 2.1  | 2.1  | 2.1  | 2.5  | 2.9  | 3.3  |
| 50°   | 4.6   | 2.9   | 2.1   | 1.7   | 1.7   | 1.7  | 1.7  | 1.7  | 2.1  | 2.5  | 2.9  |
| 51°   | 3.8   | 2.5   | 2.1   | 1.7   | 1.7   | 1.3  | 1.3  | 1.7  | 2.1  | 2.1  | 2.5  |
| 52°   | 2.9   | 2.1   | 1.7   | 1.3   | 1.3   | 1.3  | 1.3  | 1.7  | 1.7  | 2.1  | 2.5  |
| 53°   | 2.5   | 2.1   | 1.7   | 1.3   | 1.3   | 1.3  | 1.3  | 1.3  | 1.7  | 2.1  | 2.5  |
| 54°   | 2.1   | 1.7   | 1.3   | 1.3   | 1.3   | 1.3  | 1.3  | 1.3  | 1.7  | 2.1  | 2.5  |
| 55°   | 1.7   | 1.7   | 1.3   | 1.3   | 1.3   | 1.3  | 1.3  | 1.3  | 1.7  | 1.7  | 2.1  |
| 57.5° | 1.7   | 1.3   | 1.3   | 1.3   | 1.3   | 1.3  | 1.3  | 1.3  | 1.3  | 1.7  | 2.1  |
| 60°   | 1.3   | 1.3   | 1.3   | 1.3   | 1.3   | 1.3  | 1.3  | 1.3  | 1.3  | 1.7  | 2.1  |
| 61°   | 1.3   | 1.3   | 1.3   | 1.3   | 1.3   | 1.3  | 1.3  | 1.3  | 1.3  | 1.7  | 2.1  |
| 62°   | 1.3   | 1.3   | 1.3   | 1.3   | 1.3   | 1.3  | 1.3  | 1.3  | 1.3  | 1.7  | 2.1  |
| 63°   | 1.3   | 1.3   | 1.3   | 1.3   | 1.3   | 1.3  | 1.3  | 1.3  | 1.7  | 1.7  | 2.1  |
| 64°   | 1.3   | 1.3   | 1.3   | 1.3   | 1.7   | 1.7  | 1.3  | 1.3  | 1.7  | 1.7  | 2.1  |
| 65°   | 1.3   | 1.3   | 1.7   | 1.7   | 1.7   | 1.7  | 1.3  | 1.3  | 1.7  | 1.7  | 2.1  |
| 66°   | 1.3   | 1.7   | 1.7   | 1.7   | 1.7   | 1.7  | 1.3  | 1.3  | 1.7  | 1.7  | 2.1  |





TEST NUMBER: P182682

CATALOG NUMBER: LDSQA4A09927D010TE LAR15SP 4LSQA1H 30°

**CANDELA DISTRIBUTION (continued):**

|       | 50° | 55° | 60° | 65° | 67.5° | 70° | 75° | 80° | 85° | 90° | 95° |
|-------|-----|-----|-----|-----|-------|-----|-----|-----|-----|-----|-----|
| 72.5° | 1.3 | 1.7 | 1.7 | 1.7 | 1.7   | 1.7 | 1.7 | 1.3 | 1.7 | 1.7 | 1.7 |
| 75°   | 1.3 | 1.7 | 1.7 | 1.7 | 1.7   | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 |
| 77.5° | 1.3 | 1.7 | 1.7 | 1.7 | 1.7   | 1.7 | 1.7 | 1.3 | 1.3 | 1.7 | 1.7 |
| 80°   | 1.3 | 1.7 | 1.7 | 1.7 | 1.7   | 1.7 | 1.7 | 1.3 | 1.3 | 1.7 | 1.7 |
| 82.5° | 1.3 | 1.7 | 1.7 | 1.7 | 1.7   | 1.7 | 1.7 | 1.3 | 1.3 | 1.3 | 1.7 |
| 85°   | 1.3 | 1.3 | 1.7 | 1.7 | 1.7   | 1.7 | 1.7 | 1.3 | 1.3 | 1.3 | 1.3 |
| 87.5° | 1.3 | 1.3 | 1.7 | 1.7 | 1.7   | 1.7 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 |
| 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: P182682

CATALOG NUMBER: LDSQA4A09927D010TE LAR15SP 4LSQA1H 30°

**CANDELA DISTRIBUTION (continued):**

|       | 100° | 105° | 110° | 112.5° | 115° | 120° | 125° | 130° | 135° | 140° | 145° |
|-------|------|------|------|--------|------|------|------|------|------|------|------|
| 0°    | 69.9 | 69.9 | 69.9 | 69.9   | 69.9 | 69.9 | 69.9 | 69.9 | 69.9 | 69.9 | 69.9 |
| 2.5°  | 67.0 | 65.7 | 64.9 | 64.5   | 64.9 | 64.1 | 62.8 | 63.2 | 62.8 | 62.4 | 62.4 |
| 5°    | 63.6 | 61.5 | 60.7 | 60.3   | 60.3 | 59.9 | 58.2 | 58.6 | 58.2 | 57.8 | 57.8 |
| 7.5°  | 59.0 | 57.4 | 56.1 | 55.7   | 55.7 | 55.3 | 53.6 | 54.4 | 53.6 | 53.2 | 53.6 |
| 10°   | 53.6 | 51.9 | 51.5 | 50.7   | 50.7 | 50.2 | 49.0 | 49.4 | 49.0 | 49.0 | 49.0 |
| 12.5° | 47.7 | 46.1 | 45.6 | 45.2   | 45.6 | 45.2 | 44.0 | 44.8 | 44.4 | 44.4 | 44.8 |
| 15°   | 41.4 | 40.2 | 40.2 | 39.8   | 40.2 | 39.8 | 39.4 | 39.8 | 39.8 | 39.8 | 40.6 |
| 17.5° | 35.2 | 34.3 | 34.3 | 33.9   | 34.3 | 34.3 | 33.9 | 35.2 | 35.2 | 36.0 | 36.8 |
| 20°   | 28.9 | 28.1 | 28.5 | 28.5   | 29.3 | 29.3 | 29.3 | 30.6 | 31.0 | 31.8 | 33.1 |
| 22.5° | 23.9 | 23.4 | 23.9 | 23.9   | 24.7 | 25.1 | 25.1 | 26.4 | 27.6 | 28.5 | 29.7 |
| 25°   | 19.3 | 19.3 | 20.1 | 20.1   | 20.5 | 21.4 | 21.8 | 23.4 | 24.3 | 25.1 | 26.4 |
| 26°   | 18.0 | 18.0 | 18.4 | 18.8   | 19.3 | 20.1 | 20.5 | 22.2 | 23.0 | 23.9 | 25.1 |
| 27°   | 16.3 | 16.3 | 17.2 | 17.6   | 18.0 | 18.8 | 19.7 | 20.9 | 21.8 | 23.0 | 23.9 |
| 28°   | 15.1 | 15.1 | 15.9 | 16.3   | 16.7 | 18.0 | 18.4 | 19.7 | 20.5 | 21.8 | 23.0 |
| 29°   | 13.8 | 14.2 | 15.1 | 15.1   | 15.9 | 16.7 | 17.2 | 18.8 | 19.7 | 20.5 | 21.8 |
| 30°   | 13.0 | 13.4 | 13.8 | 14.2   | 14.7 | 15.5 | 16.3 | 17.6 | 18.4 | 19.3 | 20.5 |
| 31°   | 12.1 | 12.6 | 13.0 | 13.4   | 13.8 | 14.7 | 15.5 | 16.7 | 17.6 | 18.4 | 19.7 |
| 32°   | 11.3 | 11.3 | 12.1 | 12.6   | 13.0 | 13.8 | 14.7 | 15.9 | 16.7 | 17.6 | 18.8 |
| 33°   | 10.5 | 10.9 | 11.3 | 11.7   | 12.1 | 13.0 | 13.8 | 14.7 | 15.5 | 16.7 | 18.0 |
| 34°   | 9.6  | 10.0 | 10.9 | 11.3   | 11.7 | 12.6 | 13.0 | 13.8 | 14.7 | 15.9 | 16.7 |
| 35°   | 8.8  | 9.6  | 10.0 | 10.5   | 10.9 | 11.7 | 12.1 | 13.4 | 13.8 | 15.1 | 15.9 |
| 36°   | 8.4  | 8.8  | 9.6  | 10.0   | 10.5 | 10.9 | 11.3 | 12.6 | 13.4 | 14.2 | 15.1 |
| 37°   | 7.5  | 8.4  | 8.8  | 9.2    | 9.6  | 10.5 | 10.9 | 11.7 | 12.6 | 13.4 | 14.2 |
| 38°   | 7.1  | 7.5  | 8.4  | 8.8    | 9.2  | 9.6  | 10.0 | 11.3 | 11.7 | 12.6 | 13.4 |
| 39°   | 6.7  | 7.1  | 8.0  | 8.4    | 8.4  | 9.2  | 9.6  | 10.5 | 10.9 | 11.7 | 13.0 |
| 40°   | 6.3  | 6.7  | 7.5  | 7.5    | 8.0  | 8.8  | 9.2  | 10.0 | 10.5 | 11.3 | 12.1 |
| 42.5° | 5.4  | 5.9  | 6.3  | 6.7    | 7.1  | 7.5  | 8.0  | 8.8  | 9.2  | 9.6  | 10.5 |
| 45°   | 4.6  | 5.0  | 5.9  | 5.9    | 6.3  | 6.7  | 7.1  | 7.5  | 8.0  | 8.8  | 9.2  |
| 47.5° | 3.8  | 4.6  | 5.0  | 5.4    | 5.4  | 5.9  | 6.3  | 6.7  | 7.1  | 7.5  | 8.0  |
| 50°   | 3.3  | 3.8  | 4.2  | 4.6    | 4.6  | 5.0  | 5.4  | 5.9  | 5.9  | 6.3  | 7.1  |
| 51°   | 3.3  | 3.8  | 4.2  | 4.2    | 4.6  | 5.0  | 5.0  | 5.4  | 5.9  | 5.9  | 6.3  |
| 52°   | 2.9  | 3.3  | 3.8  | 4.2    | 4.2  | 4.6  | 5.0  | 5.0  | 5.4  | 5.9  | 6.3  |
| 53°   | 2.9  | 3.3  | 3.8  | 3.8    | 4.2  | 4.6  | 4.6  | 5.0  | 5.0  | 5.4  | 5.9  |
| 54°   | 2.9  | 3.3  | 3.8  | 3.8    | 4.2  | 4.2  | 4.6  | 4.6  | 5.0  | 5.0  | 5.4  |
| 55°   | 2.5  | 2.9  | 3.3  | 3.8    | 3.8  | 4.2  | 4.2  | 4.6  | 4.6  | 5.0  | 5.0  |
| 57.5° | 2.5  | 2.9  | 3.3  | 3.3    | 3.3  | 3.8  | 3.8  | 4.2  | 4.2  | 4.2  | 4.6  |
| 60°   | 2.5  | 2.9  | 2.9  | 3.3    | 3.3  | 3.8  | 3.8  | 3.8  | 3.8  | 4.2  | 4.2  |
| 61°   | 2.5  | 2.5  | 2.9  | 3.3    | 3.3  | 3.3  | 3.8  | 3.8  | 3.8  | 3.8  | 4.2  |
| 62°   | 2.5  | 2.5  | 2.9  | 2.9    | 3.3  | 3.3  | 3.3  | 3.8  | 3.8  | 3.8  | 3.8  |
| 63°   | 2.1  | 2.5  | 2.9  | 2.9    | 3.3  | 3.3  | 3.3  | 3.3  | 3.3  | 3.8  | 3.8  |
| 64°   | 2.1  | 2.5  | 2.9  | 2.9    | 2.9  | 3.3  | 3.3  | 3.3  | 3.3  | 3.3  | 3.3  |
| 65°   | 2.1  | 2.5  | 2.9  | 2.9    | 2.9  | 3.3  | 3.3  | 3.3  | 3.3  | 3.3  | 3.3  |
| 66°   | 2.1  | 2.5  | 2.9  | 2.9    | 2.9  | 3.3  | 3.3  | 3.3  | 3.3  | 3.3  | 3.3  |



TEST NUMBER: P182682

CATALOG NUMBER: LDSQA4A09927D010TE LAR15SP 4LSQA1H 30°

**CANDELA DISTRIBUTION (continued):**

|       | 100° | 105° | 110° | 112.5° | 115° | 120° | 125° | 130° | 135° | 140° | 145° |
|-------|------|------|------|--------|------|------|------|------|------|------|------|
| 72.5° | 2.1  | 2.1  | 2.5  | 2.5    | 2.5  | 2.5  | 2.5  | 2.5  | 2.5  | 2.5  | 2.5  |
| 75°   | 2.1  | 2.1  | 2.1  | 2.5    | 2.5  | 2.5  | 2.5  | 2.5  | 2.5  | 2.1  | 2.1  |
| 77.5° | 1.7  | 1.7  | 2.1  | 2.1    | 2.1  | 2.1  | 2.1  | 2.1  | 2.1  | 2.1  | 1.7  |
| 80°   | 1.7  | 1.7  | 2.1  | 2.1    | 2.1  | 2.1  | 2.1  | 2.1  | 1.7  | 1.7  | 1.7  |
| 82.5° | 1.7  | 1.7  | 1.7  | 1.7    | 1.7  | 1.7  | 1.7  | 1.7  | 1.7  | 1.3  | 1.3  |
| 85°   | 1.7  | 1.7  | 1.7  | 1.7    | 1.7  | 1.7  | 1.7  | 1.7  | 1.3  | 1.3  | 0.8  |
| 87.5° | 1.3  | 1.7  | 1.7  | 1.7    | 1.7  | 1.7  | 1.3  | 1.3  | 1.3  | 0.8  | 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  |



TEST NUMBER: P182682

CATALOG NUMBER: LDSQA4A09927D010TE LAR15SP 4LSQA1H 30°

**CANDELA DISTRIBUTION (continued):**

|       | 150° | 155° | 157.5° | 160° | 165° | 170° | 175° | 180° |
|-------|------|------|--------|------|------|------|------|------|
| 0°    | 69.9 | 69.9 | 69.9   | 69.9 | 69.9 | 69.9 | 69.9 | 69.9 |
| 2.5°  | 62.8 | 61.5 | 61.1   | 61.1 | 61.5 | 61.1 | 61.5 | 61.1 |
| 5°    | 57.8 | 56.5 | 56.5   | 56.1 | 56.5 | 56.1 | 56.5 | 56.1 |
| 7.5°  | 53.6 | 52.3 | 52.3   | 52.3 | 52.3 | 52.3 | 52.8 | 52.3 |
| 10°   | 49.4 | 48.1 | 48.1   | 47.7 | 48.1 | 48.1 | 48.6 | 48.1 |
| 12.5° | 45.2 | 44.4 | 44.4   | 44.0 | 44.8 | 44.4 | 45.2 | 44.8 |
| 15°   | 41.4 | 40.6 | 40.6   | 41.0 | 41.4 | 41.4 | 41.9 | 41.9 |
| 17.5° | 37.7 | 37.7 | 37.7   | 38.1 | 38.5 | 38.9 | 39.4 | 38.9 |
| 20°   | 34.3 | 34.3 | 34.7   | 35.2 | 35.6 | 36.0 | 36.4 | 36.4 |
| 22.5° | 31.0 | 31.0 | 31.4   | 32.2 | 33.1 | 33.5 | 33.9 | 33.9 |
| 25°   | 27.6 | 28.1 | 28.5   | 28.9 | 30.1 | 30.6 | 31.0 | 31.0 |
| 26°   | 26.4 | 26.8 | 27.6   | 28.1 | 28.9 | 29.3 | 30.1 | 30.1 |
| 27°   | 25.5 | 26.0 | 26.4   | 26.8 | 28.1 | 28.5 | 29.3 | 28.9 |
| 28°   | 24.3 | 24.7 | 25.1   | 26.0 | 26.8 | 27.6 | 28.1 | 28.1 |
| 29°   | 23.0 | 23.9 | 24.3   | 24.7 | 26.0 | 26.4 | 26.8 | 26.8 |
| 30°   | 22.2 | 22.6 | 23.0   | 23.9 | 24.7 | 25.5 | 26.0 | 26.0 |
| 31°   | 20.9 | 21.8 | 22.2   | 22.6 | 23.9 | 24.3 | 25.1 | 25.1 |
| 32°   | 20.1 | 20.5 | 20.9   | 21.8 | 22.6 | 23.4 | 23.9 | 23.9 |
| 33°   | 18.8 | 19.7 | 20.1   | 20.5 | 21.8 | 22.6 | 23.0 | 22.6 |
| 34°   | 18.0 | 18.8 | 18.8   | 19.7 | 20.5 | 21.4 | 21.8 | 21.8 |
| 35°   | 17.2 | 17.6 | 18.0   | 18.8 | 19.7 | 20.5 | 20.9 | 20.9 |
| 36°   | 16.3 | 16.7 | 17.2   | 18.0 | 18.8 | 19.7 | 20.1 | 20.1 |
| 37°   | 15.5 | 15.9 | 16.3   | 16.7 | 18.0 | 18.8 | 19.3 | 19.3 |
| 38°   | 14.7 | 15.1 | 15.5   | 16.3 | 17.2 | 17.6 | 18.4 | 18.4 |
| 39°   | 13.8 | 14.2 | 14.7   | 15.5 | 16.3 | 16.7 | 17.6 | 17.2 |
| 40°   | 13.0 | 13.8 | 13.8   | 14.7 | 15.5 | 15.9 | 16.7 | 16.3 |
| 42.5° | 11.3 | 11.7 | 12.1   | 12.6 | 13.4 | 14.2 | 14.7 | 14.7 |
| 45°   | 10.0 | 10.5 | 10.9   | 11.3 | 11.7 | 12.1 | 13.0 | 12.6 |
| 47.5° | 8.4  | 8.8  | 9.2    | 9.6  | 10.0 | 10.5 | 10.9 | 10.9 |
| 50°   | 7.5  | 7.5  | 8.0    | 8.0  | 8.8  | 9.2  | 9.6  | 9.6  |
| 51°   | 6.7  | 7.1  | 7.5    | 7.5  | 8.4  | 8.4  | 8.8  | 8.8  |
| 52°   | 6.7  | 6.7  | 7.1    | 7.1  | 7.5  | 8.0  | 8.4  | 8.4  |
| 53°   | 6.3  | 6.3  | 6.7    | 6.7  | 7.1  | 7.5  | 8.0  | 8.0  |
| 54°   | 5.9  | 5.9  | 6.3    | 6.3  | 6.7  | 7.1  | 7.5  | 7.5  |
| 55°   | 5.4  | 5.4  | 5.9    | 5.9  | 6.3  | 6.7  | 7.1  | 7.1  |
| 57.5° | 4.6  | 5.0  | 5.0    | 5.4  | 5.4  | 5.9  | 5.9  | 6.3  |
| 60°   | 4.2  | 4.6  | 4.6    | 4.6  | 5.0  | 5.0  | 5.0  | 5.0  |
| 61°   | 4.2  | 4.2  | 4.2    | 4.6  | 4.6  | 4.2  | 4.6  | 4.2  |
| 62°   | 4.2  | 4.2  | 4.2    | 4.2  | 4.2  | 4.2  | 4.2  | 4.2  |
| 63°   | 3.8  | 3.8  | 3.8    | 3.8  | 3.8  | 3.8  | 3.8  | 3.8  |
| 64°   | 3.8  | 3.3  | 3.3    | 3.3  | 3.3  | 3.3  | 3.3  | 3.3  |
| 65°   | 3.3  | 3.3  | 3.3    | 3.3  | 3.3  | 3.3  | 3.3  | 2.9  |
| 66°   | 3.3  | 3.3  | 2.9    | 3.3  | 2.9  | 2.9  | 2.9  | 2.9  |



TEST NUMBER: P182682

CATALOG NUMBER: LDSQA4A09927D010TE LAR15SP 4LSQA1H 30°

**CANDELA DISTRIBUTION (continued):**

|       | 150° | 155° | 157.5° | 160° | 165° | 170° | 175° | 180° |
|-------|------|------|--------|------|------|------|------|------|
| 72.5° | 2.1  | 2.1  | 2.1    | 2.1  | 2.1  | 1.7  | 1.7  | 1.7  |
| 75°   | 2.1  | 2.1  | 2.1    | 1.7  | 1.7  | 1.7  | 1.7  | 1.3  |
| 77.5° | 1.7  | 1.7  | 1.7    | 1.7  | 1.3  | 1.3  | 1.3  | 1.3  |
| 80°   | 1.3  | 1.3  | 1.3    | 1.3  | 1.3  | 1.3  | 0.8  | 0.8  |
| 82.5° | 1.3  | 0.8  | 0.8    | 0.8  | 0.8  | 0.8  | 0.8  | 0.8  |
| 85°   | 0.8  | 0.8  | 0.8    | 0.8  | 0.8  | 0.4  | 0.4  | 0.4  |
| 87.5° | 0.4  | 0.4  | 0.4    | 0.4  | 0.4  | 0.4  | 0.4  | 0.4  |
| 90°   | 0.0  | 0.0  | 0.0    | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180°    - - 45°-225°    - - - - 90°-270°









|       |     |     |     |     |     |     |     |     |     |     |     |     |
|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 67.5° | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 1.3 | 1.3 |
| 70°   | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 1.3 | 1.3 |





|       |     |     |     |     |     |     |     |     |     |     |     |
|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 67.5° | 1.3 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.3 | 1.7 | 1.7 | 2.1 |
| 70°   | 1.3 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.3 | 1.7 | 1.7 | 1.7 |





|       |     |     |     |     |     |     |     |     |     |     |     |
|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 67.5° | 2.1 | 2.5 | 2.9 | 2.9 | 2.9 | 2.9 | 2.9 | 2.9 | 2.9 | 2.9 | 2.9 |
| 70°   | 2.1 | 2.5 | 2.5 | 2.5 | 2.9 | 2.9 | 2.9 | 2.9 | 2.9 | 2.9 | 2.9 |







|       |     |     |     |     |     |     |     |     |
|-------|-----|-----|-----|-----|-----|-----|-----|-----|
| 67.5° | 2.9 | 2.9 | 2.9 | 2.9 | 2.9 | 2.5 | 2.5 | 2.5 |
| 70°   | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.1 | 2.1 | 2.1 |



(END OF REPORT)