

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: P1212260

Luminaire Tested: **LDSQA4A25935D010TE LAR15SP 4LSQA1H 30°**

Issue Date: 3/3/2020

Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

**Test Information**

Test Method: LM-41-14  
Report Number: P1212260  
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: LDSQA4A25935D010TE 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 / 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

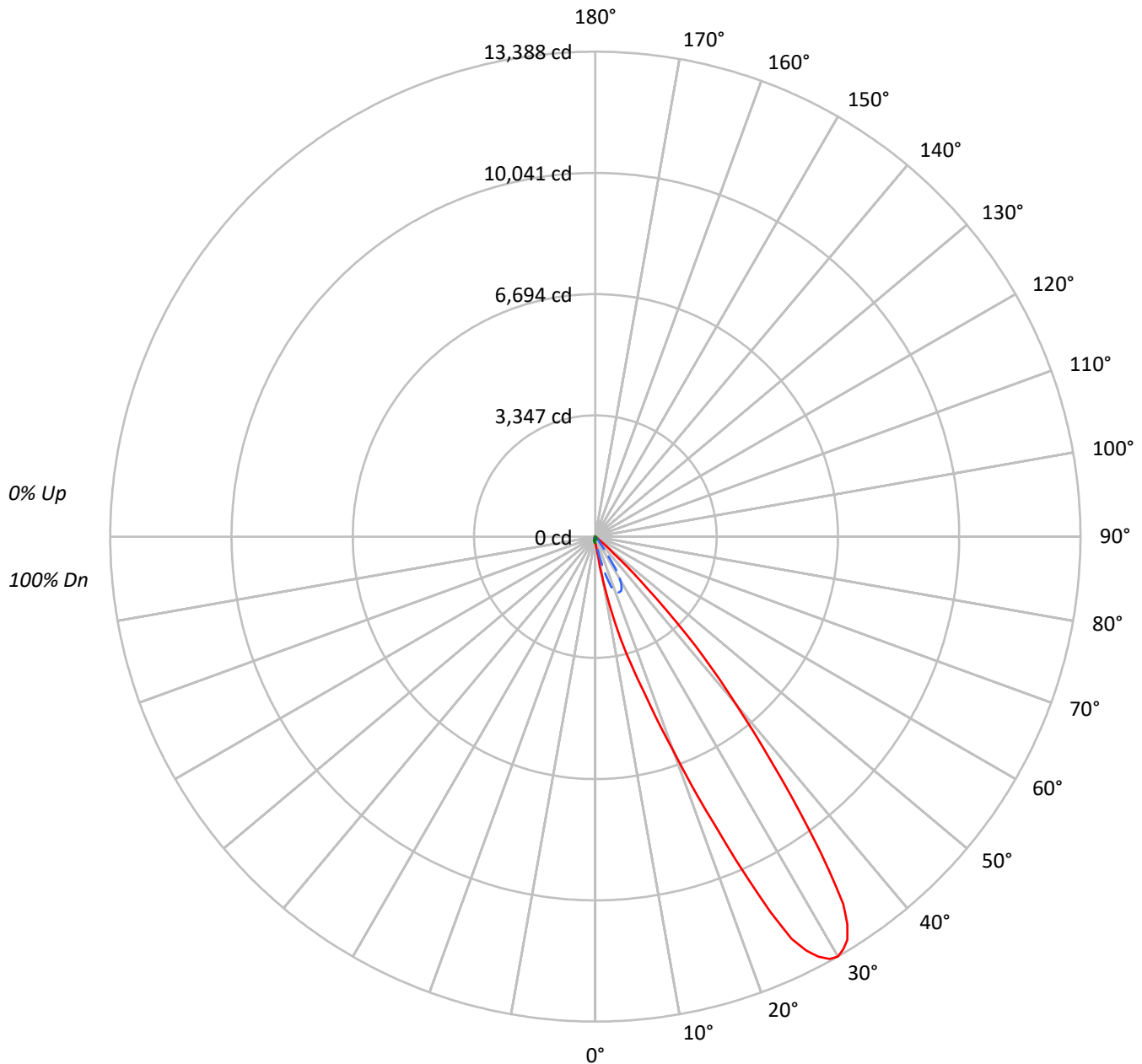
Lumens per Lamp: N/A  
Luminaire Lumens: 2058.8 lumens  
Efficiency: N/A  
Efficacy: 66.6 lumens/watt  
Spacing Criteria (0/90/45): 2.24 / 0.6 / 1.1  
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 30.9  
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: 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  |     |     |     |    | 20 |
| RC  | 80  |     |     |     | 70  |     |     |     |     | 50  |     |     |     |     | 30  |     |     |     |    | 10 |
| 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 | 100 |    |    |
| 1   | 113 | 109 | 107 | 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°  | 17195   | 17195 | 17195 |
| 5°  | 28629   | 16230 | 13848 |
| 10° | 122097  | 14224 | 12021 |
| 15° | 337997  | 11303 | 10661 |
| 20° | 648288  | 8000  | 9526  |
| 25° | 1222332 | 5334  | 8402  |
| 30° | 1497576 | 3568  | 7372  |
| 35° | 1330010 | 2389  | 6280  |
| 40° | 758025  | 1606  | 5248  |
| 45° | 276499  | 1315  | 4370  |
| 50° | 30429   | 965   | 3692  |
| 55° | 4476    | 726   | 3057  |
| 60° | 1027    | 833   | 2461  |
| 65° | 734     | 986   | 1696  |
| 70° | 595     | 1218  | 1501  |
| 75° | 786     | 1609  | 1198  |
| 80° | 0       | 2399  | 1172  |
| 85° | 0       | 3557  | 1223  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 22.3   | 1.1       |
| 10°-20°   | 223.1  | 10.8      |
| 20°-30°   | 732.7  | 35.6      |
| 30°-40°   | 803.5  | 39.0      |
| 40°-50°   | 251.0  | 12.2      |
| 50°-60°   | 13.7   | 0.7       |
| 60°-70°   | 5.5    | 0.3       |
| 70°-80°   | 4.2    | 0.2       |
| 80°-90°   | 2.6    | 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°    | 978.1  | 47.5      |
| 0°-40°    | 1781.7 | 86.5      |
| 0°-60°    | 2046.4 | 99.4      |
| 0°-90°    | 2058.8 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 2058.8 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°    | 45°  | 90° | 135° | 180° | Flux |
|-----|-------|------|-----|------|------|------|
| 0°  | 178   | 178  | 178 | 178  | 178  |      |
| 5°  | 294   | 236  | 167 | 148  | 142  | 55   |
| 15° | 3370  | 1083 | 113 | 101  | 106  | 1059 |
| 25° | 11435 | 1663 | 50  | 62   | 79   | 5097 |
| 35° | 11246 | 327  | 20  | 35   | 53   | 6575 |
| 45° | 2018  | 34   | 10  | 20   | 32   | 1853 |
| 55° | 26    | 6    | 4   | 12   | 18   | 42   |
| 65° | 3     | 3    | 4   | 8    | 7    | 3    |
| 75° | 2     | 3    | 4   | 6    | 3    | 1    |
| 85° | 0     | 3    | 3   | 3    | 1    | 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°    | 177.5   | 177.5   | 177.5   | 177.5  | 177.5  | 177.5  | 177.5  | 177.5  | 177.5  | 177.5  | 177.5  |
| 2.5°  | 218.9   | 221.1   | 222.2   | 216.8  | 217.9  | 215.8  | 217.9  | 213.6  | 206.1  | 208.3  | 201.9  |
| 5°    | 294.4   | 290.1   | 289.1   | 280.6  | 278.4  | 274.1  | 274.1  | 264.6  | 250.9  | 248.7  | 236.0  |
| 7.5°  | 520.7   | 498.4   | 479.3   | 450.7  | 423.0  | 401.7  | 393.2  | 359.1  | 322.0  | 308.2  | 278.4  |
| 10°   | 1241.2  | 1237.1  | 1189.3  | 1098.9 | 994.8  | 919.3  | 875.7  | 744.0  | 577.0  | 475.1  | 368.8  |
| 12.5° | 2259.5  | 2238.2  | 2170.2  | 2004.4 | 1824.8 | 1712.1 | 1623.9 | 1358.2 | 1110.6 | 911.8  | 653.6  |
| 15°   | 3370.1  | 3283.9  | 3184.0  | 2926.9 | 2675.0 | 2528.3 | 2403.0 | 2084.1 | 1700.4 | 1414.6 | 1082.9 |
| 17.5° | 4556.1  | 4594.3  | 4352.0  | 3908.9 | 3461.5 | 3231.9 | 3019.4 | 2529.5 | 2109.6 | 1812.0 | 1439.0 |
| 20°   | 6288.4  | 6207.6  | 5781.5  | 5047.0 | 4387.1 | 4003.4 | 3701.6 | 2994.9 | 2361.5 | 1990.6 | 1637.7 |
| 22.5° | 8629.7  | 8372.4  | 7541.4  | 6299.0 | 5252.2 | 4719.8 | 4291.4 | 3339.3 | 2573.0 | 2081.9 | 1669.6 |
| 25°   | 11435.4 | 11197.3 | 9658.4  | 7503.2 | 5954.7 | 5264.9 | 4682.6 | 3558.2 | 2658.0 | 2096.8 | 1663.2 |
| 26°   | 12351.5 | 11997.6 | 10439.5 | 7931.4 | 6170.4 | 5403.1 | 4779.3 | 3600.7 | 2660.1 | 2085.2 | 1635.6 |
| 27°   | 12825.5 | 12548.0 | 11085.7 | 8279.0 | 6318.1 | 5490.2 | 4833.5 | 3611.3 | 2638.9 | 2058.6 | 1593.1 |
| 28°   | 13137.9 | 12878.7 | 11494.9 | 8506.4 | 6393.6 | 5524.2 | 4849.3 | 3587.9 | 2591.1 | 2011.8 | 1526.2 |
| 29°   | 13331.4 | 13058.3 | 11694.7 | 8609.5 | 6399.0 | 5509.4 | 4819.6 | 3526.2 | 2526.2 | 1955.5 | 1448.6 |
| 30°   | 13387.7 | 13092.2 | 11700.0 | 8567.0 | 6320.3 | 5429.6 | 4735.7 | 3426.4 | 2447.6 | 1884.3 | 1362.4 |
| 31°   | 13287.8 | 12982.8 | 11507.6 | 8373.6 | 6158.7 | 5274.6 | 4604.0 | 3294.6 | 2349.8 | 1808.8 | 1229.6 |
| 32°   | 13122.0 | 12717.1 | 11104.8 | 8052.5 | 5937.6 | 5087.5 | 4439.2 | 3151.1 | 2245.7 | 1713.1 | 1042.6 |
| 33°   | 12769.2 | 12280.3 | 10488.4 | 7649.9 | 5672.0 | 4872.8 | 4246.8 | 2991.7 | 2146.8 | 1548.4 | 774.8  |
| 34°   | 12238.8 | 11621.4 | 9732.8  | 7181.1 | 5371.2 | 4605.0 | 4025.7 | 2844.0 | 2043.7 | 1330.5 | 530.3  |
| 35°   | 11246.2 | 10671.3 | 8898.5  | 6681.7 | 5047.0 | 4345.6 | 3782.4 | 2650.6 | 1903.4 | 1067.1 | 327.3  |
| 36°   | 10135.6 | 9712.6  | 8089.8  | 6173.7 | 4715.5 | 4076.8 | 3531.5 | 2508.1 | 1696.2 | 785.4  | 222.2  |
| 37°   | 9000.6  | 8625.4  | 7326.7  | 5674.1 | 4382.8 | 3779.2 | 3276.5 | 2346.6 | 1449.7 | 524.0  | 178.6  |
| 38°   | 7919.7  | 7622.1  | 6601.9  | 5183.2 | 4037.5 | 3467.8 | 3008.7 | 2174.5 | 1183.9 | 336.9  | 146.6  |
| 39°   | 6927.1  | 6703.9  | 5892.0  | 4708.1 | 3691.0 | 3162.7 | 2751.5 | 1957.6 | 903.3  | 240.2  | 122.2  |
| 40°   | 5994.1  | 5836.8  | 5207.6  | 4239.3 | 3346.7 | 2863.1 | 2518.8 | 1695.1 | 627.1  | 190.2  | 98.8   |
| 42.5° | 4076.8  | 4037.5  | 3664.4  | 3051.2 | 2485.8 | 2203.1 | 1991.7 | 953.3  | 241.2  | 114.8  | 55.3   |
| 45°   | 2018.2  | 2045.9  | 1897.0  | 1745.1 | 1627.1 | 1541.0 | 1255.2 | 397.5  | 133.9  | 62.6   | 34.0   |
| 47.5° | 714.1   | 715.2   | 615.3   | 548.4  | 524.0  | 521.8  | 379.5  | 140.3  | 71.2   | 38.3   | 24.5   |
| 50°   | 201.9   | 217.9   | 205.1   | 209.4  | 163.7  | 139.2  | 113.8  | 68.0   | 36.1   | 24.5   | 15.9   |
| 51°   | 124.4   | 133.9   | 125.4   | 129.6  | 112.7  | 101.0  | 85.0   | 51.0   | 28.7   | 20.2   | 14.8   |
| 52°   | 79.7    | 85.0    | 80.7    | 81.9   | 75.4   | 65.9   | 57.3   | 37.2   | 23.4   | 17.0   | 12.7   |
| 53°   | 54.2    | 57.3    | 54.2    | 54.2   | 49.9   | 46.8   | 40.4   | 27.7   | 19.1   | 13.8   | 9.6    |
| 54°   | 37.2    | 38.3    | 38.3    | 38.3   | 35.1   | 32.9   | 28.7   | 21.3   | 15.9   | 12.7   | 8.4    |
| 55°   | 26.5    | 27.7    | 26.5    | 26.5   | 25.5   | 23.4   | 21.3   | 15.9   | 12.7   | 10.7   | 6.4    |
| 57.5° | 11.7    | 11.7    | 11.7    | 12.7   | 11.7   | 11.7   | 10.7   | 9.6    | 8.4    | 6.4    | 4.3    |
| 60°   | 5.3     | 5.3     | 5.3     | 5.3    | 6.4    | 6.4    | 6.4    | 6.4    | 5.3    | 4.3    | 4.3    |
| 61°   | 4.3     | 4.3     | 4.3     | 4.3    | 4.3    | 5.3    | 5.3    | 5.3    | 4.3    | 4.3    | 3.2    |
| 62°   | 3.2     | 3.2     | 3.2     | 3.2    | 4.3    | 4.3    | 4.3    | 4.3    | 4.3    | 3.2    | 3.2    |
| 63°   | 3.2     | 3.2     | 3.2     | 3.2    | 3.2    | 3.2    | 4.3    | 4.3    | 3.2    | 3.2    | 3.2    |
| 64°   | 3.2     | 3.2     | 3.2     | 3.2    | 3.2    | 3.2    | 3.2    | 3.2    | 3.2    | 3.2    | 3.2    |
| 65°   | 3.2     | 2.1     | 2.1     | 2.1    | 2.1    | 3.2    | 3.2    | 3.2    | 3.2    | 3.2    | 3.2    |
| 66°   | 2.1     | 2.1     | 2.1     | 2.1    | 2.1    | 2.1    | 2.1    | 2.1    | 2.1    | 3.2    | 3.2    |



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**CANDELA DISTRIBUTION (continued):**

|       | 0°  | 5°  | 10° | 15° | 20° | 22.5° | 25° | 30° | 35° | 40° | 45° |
|-------|-----|-----|-----|-----|-----|-------|-----|-----|-----|-----|-----|
| 72.5° | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1   | 2.1 | 2.1 | 2.1 | 2.1 | 3.2 |
| 75°   | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1   | 2.1 | 2.1 | 2.1 | 2.1 | 3.2 |
| 77.5° | 0.0 | 0.0 | 0.0 | 0.0 | 1.1 | 1.1   | 1.1 | 1.1 | 2.1 | 2.1 | 3.2 |
| 80°   | 0.0 | 0.0 | 0.0 | 0.0 | 1.1 | 1.1   | 1.1 | 1.1 | 2.1 | 2.1 | 3.2 |
| 82.5° | 0.0 | 0.0 | 0.0 | 0.0 | 1.1 | 1.1   | 1.1 | 1.1 | 2.1 | 2.1 | 3.2 |
| 85°   | 0.0 | 0.0 | 0.0 | 0.0 | 1.1 | 1.1   | 1.1 | 1.1 | 2.1 | 2.1 | 3.2 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 1.1 | 1.1   | 1.1 | 1.1 | 2.1 | 2.1 | 3.2 |
| 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°    | 177.5  | 177.5 | 177.5 | 177.5 | 177.5 | 177.5 | 177.5 | 177.5 | 177.5 | 177.5 | 177.5 |
| 2.5°  | 197.7  | 196.6 | 191.3 | 186.0 | 187.0 | 185.0 | 182.8 | 179.6 | 177.5 | 172.1 | 172.1 |
| 5°    | 225.3  | 219.9 | 208.3 | 197.7 | 196.6 | 192.4 | 186.0 | 179.6 | 174.3 | 166.9 | 164.7 |
| 7.5°  | 257.3  | 242.3 | 223.2 | 206.1 | 203.1 | 196.6 | 185.0 | 176.4 | 166.9 | 157.3 | 154.1 |
| 10°   | 302.9  | 267.8 | 234.9 | 209.4 | 203.1 | 193.4 | 178.6 | 166.9 | 156.2 | 144.6 | 140.3 |
| 12.5° | 465.5  | 330.5 | 249.7 | 209.4 | 197.7 | 186.0 | 168.0 | 154.1 | 141.3 | 128.6 | 124.4 |
| 15°   | 775.8  | 528.2 | 316.7 | 209.4 | 188.1 | 174.3 | 151.9 | 138.1 | 124.4 | 112.7 | 108.4 |
| 17.5° | 1071.2 | 751.3 | 441.1 | 236.0 | 189.1 | 160.5 | 132.8 | 118.0 | 106.3 | 94.6  | 91.4  |
| 20°   | 1242.4 | 875.7 | 523.0 | 262.5 | 187.0 | 144.6 | 113.8 | 97.7  | 86.1  | 77.6  | 74.4  |
| 22.5° | 1264.7 | 881.0 | 504.9 | 234.9 | 157.3 | 120.1 | 94.6  | 79.7  | 70.2  | 62.6  | 60.6  |
| 25°   | 1205.1 | 778.0 | 403.9 | 166.9 | 116.9 | 97.7  | 74.4  | 63.8  | 56.3  | 49.9  | 48.9  |
| 26°   | 1159.5 | 716.4 | 351.8 | 138.1 | 103.1 | 87.1  | 66.9  | 57.3  | 51.0  | 45.8  | 44.6  |
| 27°   | 1094.7 | 650.4 | 300.8 | 114.8 | 91.4  | 78.6  | 59.6  | 52.1  | 46.8  | 41.5  | 41.5  |
| 28°   | 1021.3 | 579.2 | 242.3 | 96.7  | 81.9  | 70.2  | 54.2  | 46.8  | 41.5  | 38.3  | 38.3  |
| 29°   | 933.1  | 476.1 | 177.5 | 83.9  | 72.3  | 61.6  | 47.8  | 41.5  | 37.2  | 35.1  | 35.1  |
| 30°   | 802.4  | 345.4 | 122.2 | 73.3  | 62.6  | 54.2  | 42.5  | 37.2  | 34.0  | 31.9  | 31.9  |
| 31°   | 627.1  | 212.6 | 95.7  | 63.8  | 55.3  | 47.8  | 38.3  | 32.9  | 30.8  | 28.7  | 29.7  |
| 32°   | 427.3  | 132.8 | 81.9  | 55.3  | 48.9  | 41.5  | 34.0  | 29.7  | 27.7  | 26.5  | 26.5  |
| 33°   | 243.3  | 110.5 | 71.2  | 47.8  | 41.5  | 36.1  | 29.7  | 26.5  | 25.5  | 24.5  | 24.5  |
| 34°   | 161.6  | 94.6  | 61.6  | 40.4  | 34.0  | 30.8  | 25.5  | 23.4  | 22.4  | 22.4  | 22.4  |
| 35°   | 136.1  | 81.9  | 49.9  | 34.0  | 29.7  | 26.5  | 22.4  | 21.3  | 20.2  | 20.2  | 21.3  |
| 36°   | 114.8  | 68.0  | 40.4  | 28.7  | 25.5  | 23.4  | 20.2  | 19.1  | 18.1  | 18.1  | 19.1  |
| 37°   | 96.7   | 54.2  | 34.0  | 24.5  | 21.3  | 20.2  | 18.1  | 17.0  | 17.0  | 17.0  | 18.1  |
| 38°   | 78.6   | 43.5  | 28.7  | 21.3  | 19.1  | 17.0  | 15.9  | 14.8  | 14.8  | 15.9  | 17.0  |
| 39°   | 61.6   | 35.1  | 23.4  | 18.1  | 15.9  | 14.8  | 13.8  | 13.8  | 13.8  | 13.8  | 14.8  |
| 40°   | 48.9   | 29.7  | 20.2  | 15.9  | 13.8  | 13.8  | 12.7  | 11.7  | 12.7  | 12.7  | 14.8  |
| 42.5° | 30.8   | 21.3  | 14.8  | 11.7  | 10.7  | 10.7  | 9.6   | 9.6   | 9.6   | 10.7  | 11.7  |
| 45°   | 22.4   | 17.0  | 11.7  | 9.6   | 8.4   | 7.4   | 7.4   | 7.4   | 8.4   | 9.6   | 10.7  |
| 47.5° | 17.0   | 11.7  | 8.4   | 6.4   | 5.3   | 5.3   | 5.3   | 5.3   | 6.4   | 7.4   | 8.4   |
| 50°   | 11.7   | 7.4   | 5.3   | 4.3   | 4.3   | 4.3   | 4.3   | 4.3   | 5.3   | 6.4   | 7.4   |
| 51°   | 9.6    | 6.4   | 5.3   | 4.3   | 4.3   | 3.2   | 3.2   | 4.3   | 5.3   | 5.3   | 6.4   |
| 52°   | 7.4    | 5.3   | 4.3   | 3.2   | 3.2   | 3.2   | 3.2   | 4.3   | 4.3   | 5.3   | 6.4   |
| 53°   | 6.4    | 5.3   | 4.3   | 3.2   | 3.2   | 3.2   | 3.2   | 3.2   | 4.3   | 5.3   | 6.4   |
| 54°   | 5.3    | 4.3   | 3.2   | 3.2   | 3.2   | 3.2   | 3.2   | 3.2   | 4.3   | 5.3   | 6.4   |
| 55°   | 4.3    | 4.3   | 3.2   | 3.2   | 3.2   | 3.2   | 3.2   | 3.2   | 4.3   | 4.3   | 5.3   |
| 57.5° | 4.3    | 3.2   | 3.2   | 3.2   | 3.2   | 3.2   | 3.2   | 3.2   | 3.2   | 4.3   | 5.3   |
| 60°   | 3.2    | 3.2   | 3.2   | 3.2   | 3.2   | 3.2   | 3.2   | 3.2   | 3.2   | 4.3   | 5.3   |
| 61°   | 3.2    | 3.2   | 3.2   | 3.2   | 3.2   | 3.2   | 3.2   | 3.2   | 3.2   | 4.3   | 5.3   |
| 62°   | 3.2    | 3.2   | 3.2   | 3.2   | 3.2   | 3.2   | 3.2   | 3.2   | 3.2   | 4.3   | 5.3   |
| 63°   | 3.2    | 3.2   | 3.2   | 3.2   | 3.2   | 3.2   | 3.2   | 3.2   | 4.3   | 4.3   | 5.3   |
| 64°   | 3.2    | 3.2   | 3.2   | 3.2   | 4.3   | 4.3   | 3.2   | 3.2   | 4.3   | 4.3   | 5.3   |
| 65°   | 3.2    | 3.2   | 4.3   | 4.3   | 4.3   | 4.3   | 3.2   | 3.2   | 4.3   | 4.3   | 5.3   |
| 66°   | 3.2    | 4.3   | 4.3   | 4.3   | 4.3   | 4.3   | 3.2   | 3.2   | 4.3   | 4.3   | 5.3   |



TEST NUMBER: P1212260

CATALOG NUMBER: LDSQA4A25935D010TE LAR15SP 4LSQA1H 30°

**CANDELA DISTRIBUTION (continued):**

|       | 50° | 55° | 60° | 65° | 67.5° | 70° | 75° | 80° | 85° | 90° | 95° |
|-------|-----|-----|-----|-----|-------|-----|-----|-----|-----|-----|-----|
| 72.5° | 3.2 | 4.3 | 4.3 | 4.3 | 4.3   | 4.3 | 4.3 | 3.2 | 4.3 | 4.3 | 4.3 |
| 75°   | 3.2 | 4.3 | 4.3 | 4.3 | 4.3   | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 |
| 77.5° | 3.2 | 4.3 | 4.3 | 4.3 | 4.3   | 4.3 | 4.3 | 3.2 | 3.2 | 4.3 | 4.3 |
| 80°   | 3.2 | 4.3 | 4.3 | 4.3 | 4.3   | 4.3 | 4.3 | 3.2 | 3.2 | 4.3 | 4.3 |
| 82.5° | 3.2 | 4.3 | 4.3 | 4.3 | 4.3   | 4.3 | 4.3 | 3.2 | 3.2 | 3.2 | 4.3 |
| 85°   | 3.2 | 3.2 | 4.3 | 4.3 | 4.3   | 4.3 | 4.3 | 3.2 | 3.2 | 3.2 | 3.2 |
| 87.5° | 3.2 | 3.2 | 4.3 | 4.3 | 4.3   | 4.3 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 |
| 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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TEST NUMBER: P1212260

CATALOG NUMBER: LDSQA4A25935D010TE LAR15SP 4LSQA1H 30°

**CANDELA DISTRIBUTION (continued):**

|       | 100°  | 105°  | 110°  | 112.5° | 115°  | 120°  | 125°  | 130°  | 135°  | 140°  | 145°  |
|-------|-------|-------|-------|--------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 177.5 | 177.5 | 177.5 | 177.5  | 177.5 | 177.5 | 177.5 | 177.5 | 177.5 | 177.5 | 177.5 |
| 2.5°  | 170.0 | 166.9 | 164.7 | 163.7  | 164.7 | 162.6 | 159.4 | 160.5 | 159.4 | 158.3 | 158.3 |
| 5°    | 161.6 | 156.2 | 154.1 | 153.0  | 153.0 | 151.9 | 147.6 | 148.8 | 147.6 | 146.6 | 146.6 |
| 7.5°  | 149.9 | 145.6 | 142.4 | 141.3  | 141.3 | 140.3 | 136.1 | 138.1 | 136.1 | 134.9 | 136.1 |
| 10°   | 136.1 | 131.8 | 130.8 | 128.6  | 128.6 | 127.6 | 124.4 | 125.4 | 124.4 | 124.4 | 124.4 |
| 12.5° | 121.1 | 116.9 | 115.8 | 114.8  | 115.8 | 114.8 | 111.5 | 113.8 | 112.7 | 112.7 | 113.8 |
| 15°   | 105.2 | 102.0 | 102.0 | 101.0  | 102.0 | 101.0 | 100.0 | 101.0 | 101.0 | 101.0 | 103.1 |
| 17.5° | 89.3  | 87.1  | 87.1  | 86.1   | 87.1  | 87.1  | 86.1  | 89.3  | 89.3  | 91.4  | 93.5  |
| 20°   | 73.3  | 71.2  | 72.3  | 72.3   | 74.4  | 74.4  | 74.4  | 77.6  | 78.6  | 80.7  | 83.9  |
| 22.5° | 60.6  | 59.6  | 60.6  | 60.6   | 62.6  | 63.8  | 63.8  | 66.9  | 70.2  | 72.3  | 75.4  |
| 25°   | 48.9  | 48.9  | 51.0  | 51.0   | 52.1  | 54.2  | 55.3  | 59.6  | 61.6  | 63.8  | 66.9  |
| 26°   | 45.8  | 45.8  | 46.8  | 47.8   | 48.9  | 51.0  | 52.1  | 56.3  | 58.5  | 60.6  | 63.8  |
| 27°   | 41.5  | 41.5  | 43.5  | 44.6   | 45.8  | 47.8  | 49.9  | 53.1  | 55.3  | 58.5  | 60.6  |
| 28°   | 38.3  | 38.3  | 40.4  | 41.5   | 42.5  | 45.8  | 46.8  | 49.9  | 52.1  | 55.3  | 58.5  |
| 29°   | 35.1  | 36.1  | 38.3  | 38.3   | 40.4  | 42.5  | 43.5  | 47.8  | 49.9  | 52.1  | 55.3  |
| 30°   | 32.9  | 34.0  | 35.1  | 36.1   | 37.2  | 39.4  | 41.5  | 44.6  | 46.8  | 48.9  | 52.1  |
| 31°   | 30.8  | 31.9  | 32.9  | 34.0   | 35.1  | 37.2  | 39.4  | 42.5  | 44.6  | 46.8  | 49.9  |
| 32°   | 28.7  | 28.7  | 30.8  | 31.9   | 32.9  | 35.1  | 37.2  | 40.4  | 42.5  | 44.6  | 47.8  |
| 33°   | 26.5  | 27.7  | 28.7  | 29.7   | 30.8  | 32.9  | 35.1  | 37.2  | 39.4  | 42.5  | 45.8  |
| 34°   | 24.5  | 25.5  | 27.7  | 28.7   | 29.7  | 31.9  | 32.9  | 35.1  | 37.2  | 40.4  | 42.5  |
| 35°   | 22.4  | 24.5  | 25.5  | 26.5   | 27.7  | 29.7  | 30.8  | 34.0  | 35.1  | 38.3  | 40.4  |
| 36°   | 21.3  | 22.4  | 24.5  | 25.5   | 26.5  | 27.7  | 28.7  | 31.9  | 34.0  | 36.1  | 38.3  |
| 37°   | 19.1  | 21.3  | 22.4  | 23.4   | 24.5  | 26.5  | 27.7  | 29.7  | 31.9  | 34.0  | 36.1  |
| 38°   | 18.1  | 19.1  | 21.3  | 22.4   | 23.4  | 24.5  | 25.5  | 28.7  | 29.7  | 31.9  | 34.0  |
| 39°   | 17.0  | 18.1  | 20.2  | 21.3   | 21.3  | 23.4  | 24.5  | 26.5  | 27.7  | 29.7  | 32.9  |
| 40°   | 15.9  | 17.0  | 19.1  | 19.1   | 20.2  | 22.4  | 23.4  | 25.5  | 26.5  | 28.7  | 30.8  |
| 42.5° | 13.8  | 14.8  | 15.9  | 17.0   | 18.1  | 19.1  | 20.2  | 22.4  | 23.4  | 24.5  | 26.5  |
| 45°   | 11.7  | 12.7  | 14.8  | 14.8   | 15.9  | 17.0  | 18.1  | 19.1  | 20.2  | 22.4  | 23.4  |
| 47.5° | 9.6   | 11.7  | 12.7  | 13.8   | 13.8  | 14.8  | 15.9  | 17.0  | 18.1  | 19.1  | 20.2  |
| 50°   | 8.4   | 9.6   | 10.7  | 11.7   | 11.7  | 12.7  | 13.8  | 14.8  | 14.8  | 15.9  | 18.1  |
| 51°   | 8.4   | 9.6   | 10.7  | 10.7   | 11.7  | 12.7  | 12.7  | 13.8  | 14.8  | 14.8  | 15.9  |
| 52°   | 7.4   | 8.4   | 9.6   | 10.7   | 10.7  | 11.7  | 12.7  | 12.7  | 13.8  | 14.8  | 15.9  |
| 53°   | 7.4   | 8.4   | 9.6   | 9.6    | 10.7  | 11.7  | 11.7  | 12.7  | 12.7  | 13.8  | 14.8  |
| 54°   | 7.4   | 8.4   | 9.6   | 9.6    | 10.7  | 10.7  | 11.7  | 11.7  | 12.7  | 12.7  | 13.8  |
| 55°   | 6.4   | 7.4   | 8.4   | 9.6    | 9.6   | 10.7  | 10.7  | 11.7  | 11.7  | 12.7  | 12.7  |
| 57.5° | 6.4   | 7.4   | 8.4   | 8.4    | 8.4   | 9.6   | 9.6   | 10.7  | 10.7  | 10.7  | 11.7  |
| 60°   | 6.4   | 7.4   | 7.4   | 8.4    | 8.4   | 9.6   | 9.6   | 9.6   | 9.6   | 10.7  | 10.7  |
| 61°   | 6.4   | 6.4   | 7.4   | 8.4    | 8.4   | 8.4   | 9.6   | 9.6   | 9.6   | 9.6   | 10.7  |
| 62°   | 6.4   | 6.4   | 7.4   | 7.4    | 8.4   | 8.4   | 8.4   | 9.6   | 9.6   | 9.6   | 9.6   |
| 63°   | 5.3   | 6.4   | 7.4   | 7.4    | 8.4   | 8.4   | 8.4   | 8.4   | 8.4   | 9.6   | 9.6   |
| 64°   | 5.3   | 6.4   | 7.4   | 7.4    | 7.4   | 8.4   | 8.4   | 8.4   | 8.4   | 8.4   | 8.4   |
| 65°   | 5.3   | 6.4   | 7.4   | 7.4    | 7.4   | 8.4   | 8.4   | 8.4   | 8.4   | 8.4   | 8.4   |
| 66°   | 5.3   | 6.4   | 7.4   | 7.4    | 7.4   | 8.4   | 8.4   | 8.4   | 8.4   | 8.4   | 8.4   |



TEST NUMBER: P1212260

CATALOG NUMBER: LDSQA4A25935D010TE LAR15SP 4LSQA1H 30°

**CANDELA DISTRIBUTION (continued):**

|       | 100° | 105° | 110° | 112.5° | 115° | 120° | 125° | 130° | 135° | 140° | 145° |
|-------|------|------|------|--------|------|------|------|------|------|------|------|
| 72.5° | 5.3  | 5.3  | 6.4  | 6.4    | 6.4  | 6.4  | 6.4  | 6.4  | 6.4  | 6.4  | 6.4  |
| 75°   | 5.3  | 5.3  | 5.3  | 6.4    | 6.4  | 6.4  | 6.4  | 6.4  | 6.4  | 5.3  | 5.3  |
| 77.5° | 4.3  | 4.3  | 5.3  | 5.3    | 5.3  | 5.3  | 5.3  | 5.3  | 5.3  | 5.3  | 4.3  |
| 80°   | 4.3  | 4.3  | 5.3  | 5.3    | 5.3  | 5.3  | 5.3  | 5.3  | 4.3  | 4.3  | 4.3  |
| 82.5° | 4.3  | 4.3  | 4.3  | 4.3    | 4.3  | 4.3  | 4.3  | 4.3  | 4.3  | 3.2  | 3.2  |
| 85°   | 4.3  | 4.3  | 4.3  | 4.3    | 4.3  | 4.3  | 4.3  | 4.3  | 3.2  | 3.2  | 2.1  |
| 87.5° | 3.2  | 4.3  | 4.3  | 4.3    | 4.3  | 4.3  | 3.2  | 3.2  | 3.2  | 2.1  | 2.1  |
| 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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TEST NUMBER: P1212260

CATALOG NUMBER: LDSQA4A25935D010TE LAR15SP 4LSQA1H 30°

**CANDELA DISTRIBUTION (continued):**

|       | 150°  | 155°  | 157.5° | 160°  | 165°  | 170°  | 175°  | 180°  |
|-------|-------|-------|--------|-------|-------|-------|-------|-------|
| 0°    | 177.5 | 177.5 | 177.5  | 177.5 | 177.5 | 177.5 | 177.5 | 177.5 |
| 2.5°  | 159.4 | 156.2 | 155.2  | 155.2 | 156.2 | 155.2 | 156.2 | 155.2 |
| 5°    | 146.6 | 143.5 | 143.5  | 142.4 | 143.5 | 142.4 | 143.5 | 142.4 |
| 7.5°  | 136.1 | 132.8 | 132.8  | 132.8 | 132.8 | 132.8 | 133.9 | 132.8 |
| 10°   | 125.4 | 122.2 | 122.2  | 121.1 | 122.2 | 122.2 | 123.3 | 122.2 |
| 12.5° | 114.8 | 112.7 | 112.7  | 111.5 | 113.8 | 112.7 | 114.8 | 113.8 |
| 15°   | 105.2 | 103.1 | 103.1  | 104.1 | 105.2 | 105.2 | 106.3 | 106.3 |
| 17.5° | 95.7  | 95.7  | 95.7   | 96.7  | 97.7  | 98.8  | 100.0 | 98.8  |
| 20°   | 87.1  | 87.1  | 88.2   | 89.3  | 90.4  | 91.4  | 92.4  | 92.4  |
| 22.5° | 78.6  | 78.6  | 79.7   | 81.9  | 83.9  | 85.0  | 86.1  | 86.1  |
| 25°   | 70.2  | 71.2  | 72.3   | 73.3  | 76.6  | 77.6  | 78.6  | 78.6  |
| 26°   | 66.9  | 68.0  | 70.2   | 71.2  | 73.3  | 74.4  | 76.6  | 76.6  |
| 27°   | 64.9  | 65.9  | 66.9   | 68.0  | 71.2  | 72.3  | 74.4  | 73.3  |
| 28°   | 61.6  | 62.6  | 63.8   | 65.9  | 68.0  | 70.2  | 71.2  | 71.2  |
| 29°   | 58.5  | 60.6  | 61.6   | 62.6  | 65.9  | 66.9  | 68.0  | 68.0  |
| 30°   | 56.3  | 57.3  | 58.5   | 60.6  | 62.6  | 64.9  | 65.9  | 65.9  |
| 31°   | 53.1  | 55.3  | 56.3   | 57.3  | 60.6  | 61.6  | 63.8  | 63.8  |
| 32°   | 51.0  | 52.1  | 53.1   | 55.3  | 57.3  | 59.6  | 60.6  | 60.6  |
| 33°   | 47.8  | 49.9  | 51.0   | 52.1  | 55.3  | 57.3  | 58.5  | 57.3  |
| 34°   | 45.8  | 47.8  | 47.8   | 49.9  | 52.1  | 54.2  | 55.3  | 55.3  |
| 35°   | 43.5  | 44.6  | 45.8   | 47.8  | 49.9  | 52.1  | 53.1  | 53.1  |
| 36°   | 41.5  | 42.5  | 43.5   | 45.8  | 47.8  | 49.9  | 51.0  | 51.0  |
| 37°   | 39.4  | 40.4  | 41.5   | 42.5  | 45.8  | 47.8  | 48.9  | 48.9  |
| 38°   | 37.2  | 38.3  | 39.4   | 41.5  | 43.5  | 44.6  | 46.8  | 46.8  |
| 39°   | 35.1  | 36.1  | 37.2   | 39.4  | 41.5  | 42.5  | 44.6  | 43.5  |
| 40°   | 32.9  | 35.1  | 35.1   | 37.2  | 39.4  | 40.4  | 42.5  | 41.5  |
| 42.5° | 28.7  | 29.7  | 30.8   | 31.9  | 34.0  | 36.1  | 37.2  | 37.2  |
| 45°   | 25.5  | 26.5  | 27.7   | 28.7  | 29.7  | 30.8  | 32.9  | 31.9  |
| 47.5° | 21.3  | 22.4  | 23.4   | 24.5  | 25.5  | 26.5  | 27.7  | 27.7  |
| 50°   | 19.1  | 19.1  | 20.2   | 20.2  | 22.4  | 23.4  | 24.5  | 24.5  |
| 51°   | 17.0  | 18.1  | 19.1   | 19.1  | 21.3  | 21.3  | 22.4  | 22.4  |
| 52°   | 17.0  | 17.0  | 18.1   | 18.1  | 19.1  | 20.2  | 21.3  | 21.3  |
| 53°   | 15.9  | 15.9  | 17.0   | 17.0  | 18.1  | 19.1  | 20.2  | 20.2  |
| 54°   | 14.8  | 14.8  | 15.9   | 15.9  | 17.0  | 18.1  | 19.1  | 19.1  |
| 55°   | 13.8  | 13.8  | 14.8   | 14.8  | 15.9  | 17.0  | 18.1  | 18.1  |
| 57.5° | 11.7  | 12.7  | 12.7   | 13.8  | 13.8  | 14.8  | 14.8  | 15.9  |
| 60°   | 10.7  | 11.7  | 11.7   | 11.7  | 12.7  | 12.7  | 12.7  | 12.7  |
| 61°   | 10.7  | 10.7  | 10.7   | 11.7  | 11.7  | 10.7  | 11.7  | 10.7  |
| 62°   | 10.7  | 10.7  | 10.7   | 10.7  | 10.7  | 10.7  | 10.7  | 10.7  |
| 63°   | 9.6   | 9.6   | 9.6    | 9.6   | 9.6   | 9.6   | 9.6   | 9.6   |
| 64°   | 9.6   | 8.4   | 8.4    | 8.4   | 8.4   | 8.4   | 8.4   | 8.4   |
| 65°   | 8.4   | 8.4   | 8.4    | 8.4   | 8.4   | 8.4   | 8.4   | 7.4   |
| 66°   | 8.4   | 8.4   | 7.4    | 8.4   | 7.4   | 7.4   | 7.4   | 7.4   |

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Scaled Data Report

Cooper Lighting Solutions Photometric Lab

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TEST NUMBER: P1212260

CATALOG NUMBER: LDSQA4A25935D010TE LAR15SP 4LSQA1H 30°

**CANDELA DISTRIBUTION (continued):**

|       | 150° | 155° | 157.5° | 160° | 165° | 170° | 175° | 180° |
|-------|------|------|--------|------|------|------|------|------|
| 72.5° | 5.3  | 5.3  | 5.3    | 5.3  | 5.3  | 4.3  | 4.3  | 4.3  |
| 75°   | 5.3  | 5.3  | 5.3    | 4.3  | 4.3  | 4.3  | 4.3  | 3.2  |
| 77.5° | 4.3  | 4.3  | 4.3    | 4.3  | 3.2  | 3.2  | 3.2  | 3.2  |
| 80°   | 3.2  | 3.2  | 3.2    | 3.2  | 3.2  | 3.2  | 2.1  | 2.1  |
| 82.5° | 3.2  | 2.1  | 2.1    | 2.1  | 2.1  | 2.1  | 2.1  | 2.1  |
| 85°   | 2.1  | 2.1  | 2.1    | 2.1  | 2.1  | 1.1  | 1.1  | 1.1  |
| 87.5° | 1.1  | 1.1  | 1.1    | 1.1  | 1.1  | 1.1  | 1.1  | 1.1  |
| 90°   | 0.0  | 0.0  | 0.0    | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |

Classified

Scaled Data Report

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



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Cooper Lighting Solutions Photometric Lab

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Peachtree City, GA 30269

Scaled Data Report





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

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|       |     |     |     |     |     |     |     |     |     |     |     |
|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 67.5° | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 3.2 | 3.2 |
| 70°   | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 3.2 | 3.2 |

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Peachtree City, GA 30269

Scaled Data Report



|       |     |     |     |     |     |     |     |     |     |     |     |
|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 67.5° | 3.2 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 3.2 | 4.3 | 4.3 | 5.3 |
| 70°   | 3.2 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 3.2 | 4.3 | 4.3 | 4.3 |

Classified

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269

Scaled Data Report



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|       |     |     |     |     |     |     |     |     |     |     |     |
|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 67.5° | 5.3 | 6.4 | 7.4 | 7.4 | 7.4 | 7.4 | 7.4 | 7.4 | 7.4 | 7.4 | 7.4 |
| 70°   | 5.3 | 6.4 | 6.4 | 6.4 | 7.4 | 7.4 | 7.4 | 7.4 | 7.4 | 7.4 | 7.4 |

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|       |     |     |     |     |     |     |     |     |
|-------|-----|-----|-----|-----|-----|-----|-----|-----|
| 67.5° | 7.4 | 7.4 | 7.4 | 7.4 | 7.4 | 6.4 | 6.4 | 6.4 |
| 70°   | 6.4 | 6.4 | 6.4 | 6.4 | 6.4 | 5.3 | 5.3 | 5.3 |

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