

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: P209081

Luminaire Tested: **LDSQA6A55930D010TE LARH40FL 6LSQA1H 30°**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P209081
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P26688)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDSQA6A55930D010TE LARH40FL 6LSQA1H 30°
Description: PORTFOLIO 6" SQUARE ADJUSTABLE REFLECTOR, ANGLE-CUT TRIM,
SELF-FLANGED, 40° FLOOD, 30° Tilt
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4302.5 lumens
Efficiency: N/A
Efficacy: 70.8 lumens/watt
Spacing Criteria (0/90/45): 2.63 / 0.54 / 1.37
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

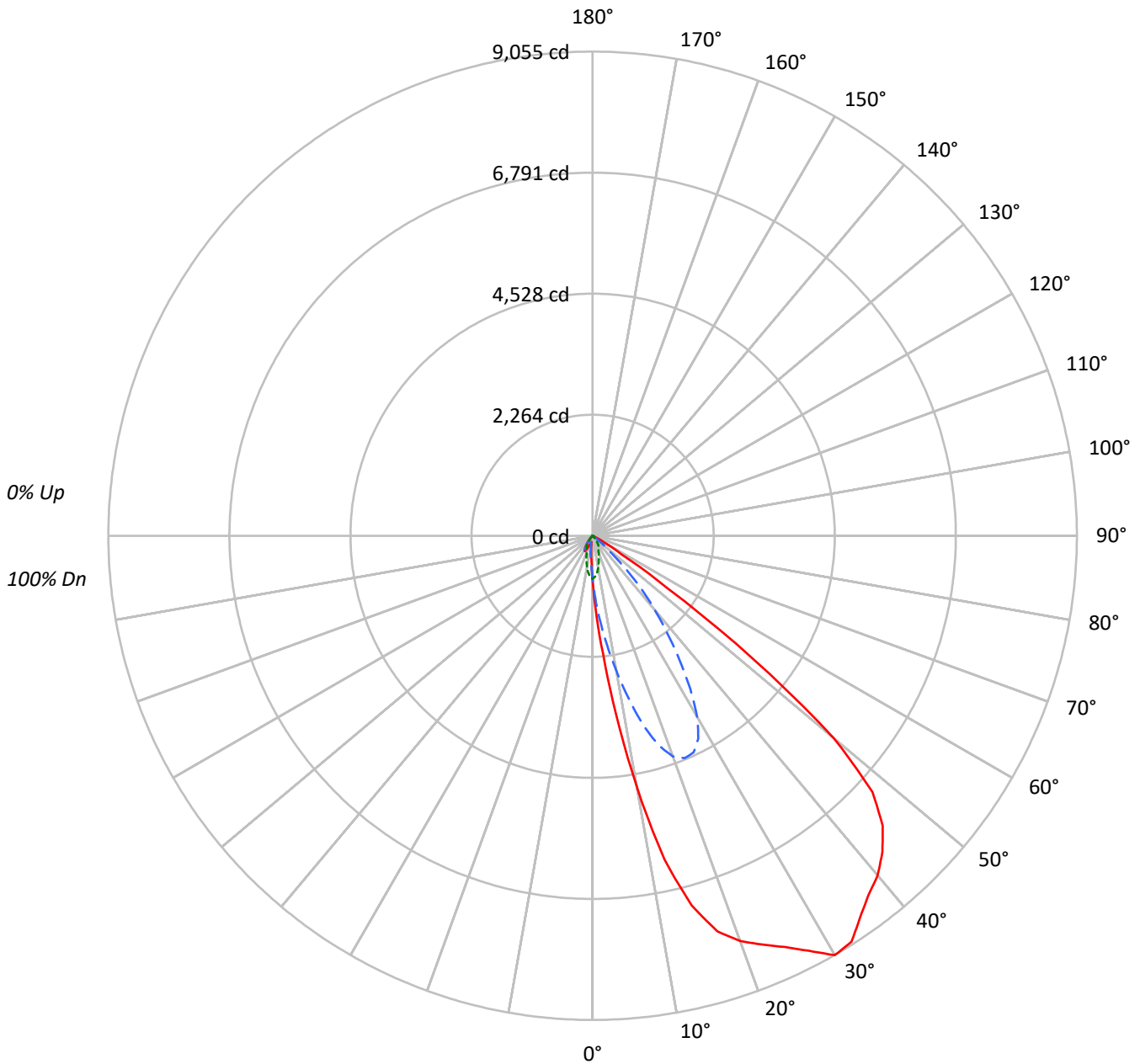
Input Watts (W): 60.8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P209081

CATALOG NUMBER: LDSQA6A55930D010TE LARH40FL 6LSQA1H 30°

Luminous Intensity Polar Plot





TEST NUMBER: P209081

CATALOG NUMBER: LDSQA6A55930D010TE LARH40FL 6LSQA1H 30°

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 | 112 | 109 | 106 | 103 | 110 | 107 | 104 | 102 | 103 | 100 | 98 | 99 | 97 | 95 | 95 | 94 | 93 | 91 | | | | | | | | | | | | | | | | | | | |
| 2 | 105 | 99 | 94 | 90 | 103 | 97 | 93 | 89 | 94 | 90 | 87 | 91 | 88 | 85 | 88 | 85 | 83 | 81 | | | | | | | | | | | | | | | | | | | |
| 3 | 98 | 90 | 84 | 79 | 96 | 88 | 83 | 78 | 86 | 81 | 77 | 83 | 79 | 76 | 81 | 77 | 74 | 73 | | | | | | | | | | | | | | | | | | | |
| 4 | 91 | 82 | 75 | 70 | 89 | 80 | 74 | 69 | 78 | 73 | 68 | 76 | 71 | 67 | 74 | 70 | 67 | 65 | | | | | | | | | | | | | | | | | | | |
| 5 | 85 | 74 | 67 | 62 | 83 | 73 | 66 | 61 | 71 | 65 | 61 | 70 | 64 | 60 | 68 | 63 | 60 | 58 | | | | | | | | | | | | | | | | | | | |
| 6 | 79 | 68 | 60 | 55 | 77 | 67 | 60 | 55 | 65 | 59 | 54 | 64 | 58 | 54 | 62 | 57 | 54 | 52 | | | | | | | | | | | | | | | | | | | |
| 7 | 74 | 62 | 55 | 49 | 72 | 61 | 54 | 49 | 60 | 53 | 49 | 59 | 53 | 49 | 57 | 52 | 48 | 46 | | | | | | | | | | | | | | | | | | | |
| 8 | 69 | 57 | 49 | 44 | 67 | 56 | 49 | 44 | 55 | 49 | 44 | 54 | 48 | 44 | 53 | 47 | 44 | 42 | | | | | | | | | | | | | | | | | | | |
| 9 | 64 | 52 | 45 | 40 | 63 | 52 | 45 | 40 | 51 | 44 | 40 | 50 | 44 | 40 | 49 | 43 | 39 | 38 | | | | | | | | | | | | | | | | | | | |
| 10 | 60 | 48 | 41 | 36 | 59 | 48 | 41 | 36 | 47 | 41 | 36 | 46 | 40 | 36 | 45 | 40 | 36 | 34 | | | | | | | | | | | | | | | | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° |
|-----|--------|-------|-------|
| 0° | 34716 | 34716 | 34716 |
| 5° | 95292 | 31987 | 13052 |
| 10° | 208819 | 26179 | 4975 |
| 15° | 318971 | 19929 | 5835 |
| 20° | 369561 | 14827 | 9068 |
| 25° | 403142 | 12190 | 14632 |
| 30° | 450182 | 11057 | 14940 |
| 35° | 458035 | 7585 | 10244 |
| 40° | 466087 | 3597 | 5182 |
| 45° | 466843 | 1492 | 2265 |
| 50° | 394669 | 650 | 697 |
| 55° | 127085 | 450 | 113 |
| 60° | 25239 | 517 | 0 |
| 65° | 2578 | 611 | 0 |
| 70° | 277 | 843 | 0 |
| 75° | 0 | 1115 | 0 |
| 80° | 0 | 1835 | 174 |
| 85° | 0 | 3656 | 346 |



TEST NUMBER: P209081

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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 109.5 | 2.5 |
| 10°-20° | 566.1 | 13.2 |
| 20°-30° | 1083.9 | 25.2 |
| 30°-40° | 1277.0 | 29.7 |
| 40°-50° | 1003.1 | 23.3 |
| 50°-60° | 244.4 | 5.7 |
| 60°-70° | 10.5 | 0.2 |
| 70°-80° | 4.0 | 0.1 |
| 80°-90° | 3.9 | 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° | 1759.5 | 40.9 |
| 0°-40° | 3036.5 | 70.6 |
| 0°-60° | 4284.1 | 99.6 |
| 0°-90° | 4302.5 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 4302.5 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|-----|------|------|------|
| 0° | 806 | 806 | 806 | 806 | 806 | |
| 5° | 2205 | 1596 | 740 | 388 | 302 | 291 |
| 15° | 7156 | 3675 | 447 | 128 | 131 | 1998 |
| 25° | 8486 | 4469 | 257 | 268 | 308 | 3955 |
| 35° | 8714 | 2825 | 144 | 186 | 195 | 5464 |
| 45° | 7667 | 873 | 24 | 34 | 37 | 5761 |
| 55° | 1693 | 32 | 6 | 4 | 2 | 2015 |
| 65° | 25 | 4 | 6 | 4 | 0 | 67 |
| 75° | 0 | 4 | 7 | 4 | 0 | 0 |
| 85° | 0 | 4 | 7 | 4 | 1 | 0 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P209081

CATALOG NUMBER: LDSQA6A55930D010TE LARH40FL 6LSQA1H 30°

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 22.5° | 25° | 30° | 35° | 40° | 45° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 806.3 | 806.3 | 806.3 | 806.3 | 806.3 | 806.3 | 806.3 | 806.3 | 806.3 | 806.3 | 806.3 |
| 2.5° | 1382.1 | 1379.1 | 1359.0 | 1377.6 | 1321.1 | 1318.9 | 1293.6 | 1282.4 | 1249.7 | 1218.4 | 1173.8 |
| 5° | 2204.8 | 2156.5 | 2117.0 | 2118.5 | 2009.9 | 1989.8 | 1933.3 | 1876.0 | 1788.2 | 1706.4 | 1595.6 |
| 7.5° | 3360.8 | 3303.5 | 3220.2 | 3185.2 | 2977.7 | 2916.7 | 2799.9 | 2647.4 | 2456.2 | 2265.8 | 2060.5 |
| 10° | 4776.3 | 4785.3 | 4677.4 | 4577.7 | 4263.8 | 4140.3 | 3951.4 | 3650.9 | 3288.6 | 2930.8 | 2567.1 |
| 12.5° | 6200.8 | 6194.9 | 6066.2 | 5915.2 | 5528.4 | 5354.3 | 5102.9 | 4728.0 | 4248.2 | 3693.3 | 3124.2 |
| 15° | 7155.9 | 7198.3 | 7144.0 | 7023.5 | 6693.3 | 6493.9 | 6210.5 | 5701.7 | 5117.0 | 4443.1 | 3675.4 |
| 17.5° | 7755.5 | 7795.7 | 7776.3 | 7681.9 | 7390.3 | 7177.5 | 6941.0 | 6524.4 | 5848.2 | 5001.0 | 4109.8 |
| 20° | 8065.7 | 8128.9 | 8120.0 | 8017.3 | 7797.2 | 7620.9 | 7359.8 | 6973.7 | 6388.3 | 5388.5 | 4391.0 |
| 22.5° | 8272.5 | 8320.8 | 8334.2 | 8218.2 | 7990.6 | 7823.2 | 7632.0 | 7240.7 | 6690.3 | 5625.1 | 4502.6 |
| 25° | 8486.0 | 8571.5 | 8487.5 | 8344.6 | 8135.6 | 7974.9 | 7771.1 | 7396.2 | 6834.6 | 5721.8 | 4469.1 |
| 27.5° | 8747.8 | 8788.7 | 8598.3 | 8468.1 | 8236.0 | 8062.0 | 7845.5 | 7486.2 | 6859.9 | 5644.4 | 4277.9 |
| 30° | 9055.0 | 8885.4 | 8752.3 | 8494.2 | 8230.8 | 8061.2 | 7841.0 | 7429.7 | 6726.7 | 5387.8 | 3907.5 |
| 32.5° | 9004.4 | 8849.0 | 8698.0 | 8425.0 | 8164.6 | 7996.5 | 7751.0 | 7241.5 | 6412.1 | 4958.6 | 3396.5 |
| 35° | 8714.3 | 8747.8 | 8584.9 | 8358.8 | 8064.2 | 7890.9 | 7623.1 | 6973.7 | 5878.0 | 4366.5 | 2825.2 |
| 37.5° | 8469.6 | 8543.3 | 8436.9 | 8227.9 | 7928.8 | 7694.5 | 7333.0 | 6543.8 | 5181.0 | 3615.2 | 2283.7 |
| 40° | 8292.6 | 8316.4 | 8259.1 | 8024.8 | 7665.5 | 7327.0 | 6909.0 | 5771.6 | 4334.5 | 2837.8 | 1802.4 |
| 42.5° | 8018.1 | 8081.3 | 7980.1 | 7724.3 | 7179.8 | 6796.7 | 6191.2 | 4879.7 | 3366.7 | 2167.6 | 1356.8 |
| 45° | 7667.0 | 7727.2 | 7602.3 | 7176.8 | 6419.5 | 5857.9 | 5119.3 | 3804.9 | 2490.4 | 1597.8 | 873.3 |
| 47.5° | 7094.2 | 7131.4 | 6889.6 | 6301.3 | 5200.3 | 4671.5 | 3914.2 | 2652.6 | 1604.5 | 893.4 | 424.7 |
| 50° | 5892.1 | 5874.3 | 5375.9 | 4652.1 | 3478.3 | 2923.4 | 2329.8 | 1437.9 | 720.8 | 423.3 | 265.6 |
| 52.5° | 3797.4 | 3756.5 | 3263.3 | 2605.0 | 1761.5 | 1344.2 | 1010.2 | 620.4 | 375.7 | 236.5 | 104.9 |
| 55° | 1693.0 | 1677.4 | 1373.2 | 1066.7 | 720.8 | 620.4 | 473.8 | 304.2 | 200.1 | 82.6 | 32.0 |
| 57.5° | 627.8 | 613.7 | 540.8 | 453.8 | 348.1 | 289.4 | 229.9 | 145.8 | 51.3 | 27.5 | 17.1 |
| 60° | 293.1 | 292.3 | 257.4 | 212.0 | 147.3 | 111.6 | 64.7 | 34.2 | 21.6 | 14.9 | 9.7 |
| 62.5° | 93.7 | 91.5 | 64.0 | 46.9 | 33.5 | 29.0 | 23.1 | 17.1 | 11.2 | 8.2 | 6.0 |
| 65° | 25.3 | 25.3 | 23.1 | 19.3 | 15.6 | 13.4 | 11.2 | 8.2 | 5.2 | 4.5 | 3.7 |
| 67.5° | 9.7 | 9.7 | 8.9 | 8.2 | 6.0 | 5.2 | 4.5 | 3.7 | 3.0 | 3.7 | 3.7 |
| 70° | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 3.0 | 3.0 | 3.7 |
| 72.5° | 0.0 | 0.0 | 0.7 | 0.7 | 1.5 | 1.5 | 2.2 | 2.2 | 3.0 | 3.7 | 3.7 |
| 75° | 0.0 | 0.0 | 0.7 | 0.7 | 1.5 | 1.5 | 2.2 | 2.2 | 3.0 | 3.7 | 3.7 |
| 77.5° | 0.0 | 0.0 | 0.7 | 0.7 | 1.5 | 1.5 | 2.2 | 2.2 | 3.0 | 3.7 | 3.7 |
| 80° | 0.0 | 0.0 | 0.7 | 0.7 | 1.5 | 1.5 | 2.2 | 2.2 | 3.0 | 3.7 | 3.7 |
| 82.5° | 0.0 | 0.0 | 0.7 | 1.5 | 1.5 | 1.5 | 2.2 | 3.0 | 3.0 | 3.7 | 4.5 |
| 85° | 0.0 | 0.0 | 0.7 | 1.5 | 1.5 | 2.2 | 2.2 | 3.0 | 3.0 | 3.7 | 4.5 |
| 87.5° | 0.0 | 0.0 | 0.7 | 1.5 | 1.5 | 2.2 | 2.2 | 3.0 | 3.0 | 3.7 | 4.5 |
| 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: P209081

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CANDELA DISTRIBUTION (continued):

| | 50° | 55° | 60° | 65° | 67.5° | 70° | 75° | 80° | 85° | 90° | 95° |
|-------|--------|--------|--------|--------|--------|--------|--------|-------|-------|-------|-------|
| 0° | 806.3 | 806.3 | 806.3 | 806.3 | 806.3 | 806.3 | 806.3 | 806.3 | 806.3 | 806.3 | 806.3 |
| 2.5° | 1141.1 | 1092.0 | 1024.3 | 984.9 | 975.2 | 954.4 | 917.9 | 863.6 | 819.0 | 775.8 | 750.6 |
| 5° | 1501.9 | 1385.8 | 1255.6 | 1164.1 | 1127.0 | 1077.1 | 988.6 | 897.1 | 813.0 | 740.1 | 682.9 |
| 7.5° | 1884.2 | 1693.0 | 1482.5 | 1312.9 | 1251.9 | 1173.1 | 1028.8 | 892.6 | 777.3 | 676.2 | 599.6 |
| 10° | 2264.3 | 1956.4 | 1670.7 | 1425.2 | 1325.6 | 1218.4 | 1028.0 | 851.7 | 716.3 | 598.8 | 514.0 |
| 12.5° | 2644.4 | 2201.8 | 1809.1 | 1492.9 | 1363.5 | 1228.1 | 997.5 | 789.2 | 639.0 | 519.2 | 438.1 |
| 15° | 2995.5 | 2397.5 | 1902.8 | 1516.0 | 1359.8 | 1199.8 | 935.8 | 713.4 | 557.9 | 447.1 | 371.9 |
| 17.5° | 3257.4 | 2500.1 | 1924.4 | 1481.0 | 1301.0 | 1124.0 | 841.3 | 624.1 | 480.5 | 383.1 | 306.5 |
| 20° | 3386.1 | 2516.5 | 1873.0 | 1381.4 | 1199.8 | 1016.1 | 737.9 | 538.6 | 414.3 | 323.6 | 258.9 |
| 22.5° | 3386.1 | 2439.1 | 1761.5 | 1256.4 | 1073.4 | 891.9 | 638.2 | 467.9 | 362.3 | 281.9 | 227.6 |
| 25° | 3257.4 | 2285.1 | 1611.9 | 1112.1 | 934.3 | 769.2 | 551.9 | 415.1 | 322.1 | 256.6 | 211.3 |
| 27.5° | 3007.4 | 2072.4 | 1420.0 | 951.4 | 797.4 | 659.8 | 483.5 | 366.7 | 291.6 | 231.3 | 232.1 |
| 30° | 2663.8 | 1811.3 | 1199.8 | 781.8 | 656.8 | 542.3 | 406.9 | 307.2 | 233.6 | 222.4 | 229.1 |
| 32.5° | 2266.5 | 1498.9 | 950.7 | 606.2 | 508.8 | 427.0 | 309.4 | 217.2 | 186.0 | 187.5 | 194.9 |
| 35° | 1858.9 | 1179.8 | 715.6 | 449.3 | 378.6 | 309.4 | 203.1 | 142.8 | 141.3 | 144.3 | 149.5 |
| 37.5° | 1467.6 | 883.0 | 517.7 | 328.8 | 254.4 | 190.4 | 109.3 | 98.2 | 98.2 | 101.2 | 104.1 |
| 40° | 1099.4 | 626.3 | 356.3 | 194.9 | 123.5 | 87.0 | 69.2 | 64.0 | 63.2 | 64.0 | 67.7 |
| 42.5° | 755.0 | 396.5 | 212.0 | 78.1 | 59.5 | 50.6 | 43.9 | 40.2 | 39.4 | 40.2 | 42.4 |
| 45° | 424.0 | 244.0 | 82.6 | 41.7 | 35.7 | 32.0 | 27.5 | 25.3 | 24.5 | 24.5 | 26.0 |
| 47.5° | 265.6 | 96.7 | 37.2 | 26.0 | 22.3 | 20.8 | 17.9 | 16.4 | 15.6 | 15.6 | 16.4 |
| 50° | 101.9 | 37.9 | 23.1 | 17.1 | 14.9 | 13.4 | 11.9 | 10.4 | 9.7 | 9.7 | 10.4 |
| 52.5° | 35.0 | 22.3 | 14.9 | 11.2 | 9.7 | 8.9 | 7.4 | 6.7 | 6.7 | 6.7 | 6.7 |
| 55° | 19.3 | 13.4 | 8.9 | 6.7 | 6.0 | 6.0 | 6.0 | 6.0 | 6.0 | 6.0 | 6.0 |
| 57.5° | 11.9 | 8.2 | 6.0 | 5.2 | 5.2 | 5.2 | 5.2 | 5.2 | 5.2 | 6.0 | 6.0 |
| 60° | 6.7 | 5.2 | 4.5 | 4.5 | 4.5 | 4.5 | 5.2 | 5.2 | 5.2 | 6.0 | 6.0 |
| 62.5° | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 5.2 | 5.2 | 6.0 | 6.0 | 6.0 |
| 65° | 3.7 | 3.7 | 3.7 | 4.5 | 4.5 | 4.5 | 5.2 | 5.2 | 6.0 | 6.0 | 6.0 |
| 67.5° | 3.7 | 3.7 | 4.5 | 4.5 | 4.5 | 5.2 | 5.2 | 6.0 | 6.0 | 6.0 | 6.0 |
| 70° | 3.7 | 4.5 | 4.5 | 5.2 | 5.2 | 5.2 | 6.0 | 6.0 | 6.0 | 6.7 | 6.7 |
| 72.5° | 3.7 | 4.5 | 4.5 | 5.2 | 5.2 | 5.2 | 6.0 | 6.0 | 6.7 | 6.7 | 6.7 |
| 75° | 4.5 | 4.5 | 4.5 | 5.2 | 5.2 | 5.2 | 6.0 | 6.7 | 6.7 | 6.7 | 6.7 |
| 77.5° | 4.5 | 4.5 | 5.2 | 5.2 | 5.2 | 6.0 | 6.0 | 6.7 | 6.7 | 6.7 | 6.7 |
| 80° | 4.5 | 4.5 | 5.2 | 5.2 | 6.0 | 6.0 | 6.7 | 6.7 | 6.7 | 7.4 | 7.4 |
| 82.5° | 4.5 | 4.5 | 5.2 | 6.0 | 6.0 | 6.0 | 6.7 | 6.7 | 7.4 | 7.4 | 7.4 |
| 85° | 4.5 | 5.2 | 5.2 | 6.0 | 6.0 | 6.0 | 6.7 | 6.7 | 7.4 | 7.4 | 7.4 |
| 87.5° | 4.5 | 5.2 | 5.2 | 6.0 | 6.0 | 6.0 | 6.7 | 6.7 | 7.4 | 7.4 | 7.4 |
| 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):

| | 100° | 105° | 110° | 112.5° | 115° | 120° | 125° | 130° | 135° | 140° | 145° |
|-------|-------|-------|-------|--------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 806.3 | 806.3 | 806.3 | 806.3 | 806.3 | 806.3 | 806.3 | 806.3 | 806.3 | 806.3 | 806.3 |
| 2.5° | 717.1 | 685.8 | 654.6 | 631.5 | 620.4 | 609.2 | 584.7 | 552.7 | 539.3 | 520.0 | 508.8 |
| 5° | 624.8 | 572.0 | 530.4 | 502.9 | 486.5 | 464.9 | 436.6 | 405.4 | 387.6 | 367.5 | 354.1 |
| 7.5° | 529.6 | 467.9 | 427.7 | 402.4 | 386.1 | 359.3 | 323.6 | 286.4 | 264.8 | 242.5 | 226.9 |
| 10° | 446.3 | 387.6 | 342.2 | 313.2 | 292.3 | 261.1 | 225.4 | 199.4 | 180.8 | 161.4 | 145.8 |
| 12.5° | 372.7 | 309.4 | 261.1 | 236.5 | 222.4 | 192.7 | 162.9 | 133.9 | 122.7 | 119.0 | 119.0 |
| 15° | 302.0 | 244.7 | 203.8 | 183.0 | 168.1 | 136.1 | 130.2 | 128.7 | 127.9 | 127.2 | 128.7 |
| 17.5° | 246.2 | 197.9 | 154.7 | 144.3 | 142.8 | 142.1 | 142.8 | 142.8 | 143.6 | 145.8 | 149.5 |
| 20° | 206.8 | 162.2 | 159.2 | 159.9 | 159.9 | 162.9 | 166.6 | 169.6 | 172.6 | 176.3 | 183.0 |
| 22.5° | 183.7 | 183.0 | 188.2 | 188.9 | 192.7 | 197.1 | 203.8 | 208.3 | 215.7 | 219.4 | 229.1 |
| 25° | 212.0 | 217.2 | 226.9 | 229.9 | 235.8 | 243.2 | 253.7 | 259.6 | 268.5 | 273.0 | 284.2 |
| 27.5° | 240.3 | 248.4 | 260.4 | 264.1 | 269.3 | 281.2 | 288.6 | 293.8 | 298.3 | 301.3 | 308.0 |
| 30° | 238.0 | 245.5 | 257.4 | 258.1 | 265.6 | 273.7 | 278.2 | 282.7 | 285.6 | 284.9 | 288.6 |
| 32.5° | 201.6 | 208.3 | 219.4 | 219.4 | 227.6 | 234.3 | 236.5 | 240.3 | 240.3 | 240.3 | 241.8 |
| 35° | 154.7 | 159.2 | 166.6 | 168.9 | 175.6 | 180.0 | 181.5 | 186.0 | 186.0 | 184.5 | 184.5 |
| 37.5° | 107.1 | 113.1 | 118.3 | 119.8 | 124.2 | 127.2 | 130.9 | 131.7 | 130.2 | 130.9 | 130.9 |
| 40° | 69.9 | 73.6 | 77.4 | 78.1 | 81.8 | 84.1 | 87.8 | 87.8 | 88.5 | 87.8 | 89.3 |
| 42.5° | 43.1 | 46.1 | 48.4 | 49.8 | 51.3 | 52.8 | 55.0 | 55.8 | 56.5 | 55.8 | 57.3 |
| 45° | 26.8 | 28.3 | 29.8 | 30.5 | 31.2 | 32.0 | 34.2 | 34.2 | 34.2 | 34.2 | 35.0 |
| 47.5° | 16.4 | 17.1 | 17.9 | 17.9 | 18.6 | 19.3 | 20.1 | 20.1 | 20.1 | 20.1 | 20.8 |
| 50° | 9.7 | 10.4 | 10.4 | 10.4 | 11.2 | 11.2 | 11.9 | 11.9 | 11.9 | 11.2 | 11.9 |
| 52.5° | 6.7 | 6.7 | 6.7 | 6.7 | 6.7 | 6.7 | 6.7 | 6.7 | 6.7 | 6.0 | 6.7 |
| 55° | 6.0 | 6.0 | 5.2 | 5.2 | 5.2 | 5.2 | 5.2 | 4.5 | 3.7 | 3.7 | 3.0 |
| 57.5° | 5.2 | 5.2 | 5.2 | 5.2 | 5.2 | 4.5 | 4.5 | 3.7 | 3.7 | 3.0 | 2.2 |
| 60° | 5.2 | 5.2 | 5.2 | 5.2 | 5.2 | 4.5 | 4.5 | 3.7 | 3.0 | 3.0 | 2.2 |
| 62.5° | 6.0 | 5.2 | 5.2 | 5.2 | 5.2 | 4.5 | 4.5 | 3.7 | 3.0 | 3.0 | 2.2 |
| 65° | 6.0 | 6.0 | 5.2 | 5.2 | 5.2 | 4.5 | 4.5 | 3.7 | 3.7 | 3.0 | 2.2 |
| 67.5° | 6.0 | 6.0 | 6.0 | 5.2 | 6.0 | 5.2 | 4.5 | 4.5 | 3.7 | 3.0 | 3.0 |
| 70° | 6.7 | 6.0 | 6.0 | 6.0 | 6.0 | 5.2 | 5.2 | 4.5 | 3.7 | 3.0 | 3.0 |
| 72.5° | 6.7 | 6.7 | 6.0 | 6.0 | 6.0 | 5.2 | 5.2 | 4.5 | 3.7 | 3.7 | 3.0 |
| 75° | 6.7 | 6.7 | 6.0 | 6.0 | 6.0 | 5.2 | 5.2 | 4.5 | 4.5 | 3.7 | 3.0 |
| 77.5° | 6.7 | 6.7 | 6.7 | 6.0 | 6.0 | 6.0 | 5.2 | 5.2 | 4.5 | 3.7 | 3.0 |
| 80° | 6.7 | 6.7 | 6.7 | 6.7 | 6.7 | 6.0 | 6.0 | 5.2 | 4.5 | 3.7 | 3.0 |
| 82.5° | 7.4 | 6.7 | 6.7 | 6.7 | 6.7 | 6.0 | 6.0 | 5.2 | 4.5 | 3.7 | 3.7 |
| 85° | 7.4 | 7.4 | 6.7 | 6.7 | 6.7 | 6.0 | 6.0 | 5.2 | 4.5 | 4.5 | 3.7 |
| 87.5° | 7.4 | 6.7 | 6.7 | 6.7 | 6.7 | 6.0 | 6.0 | 5.2 | 4.5 | 3.7 | 3.7 |
| 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: P209081

CATALOG NUMBER: LDSQA6A55930D010TE LARH40FL 6LSQA1H 30°

CANDELA DISTRIBUTION (continued):

| | 150° | 155° | 157.5° | 160° | 165° | 170° | 175° | 180° |
|-------|-------|-------|--------|-------|-------|-------|-------|-------|
| 0° | 806.3 | 806.3 | 806.3 | 806.3 | 806.3 | 806.3 | 806.3 | 806.3 |
| 2.5° | 497.6 | 491.7 | 491.7 | 481.3 | 479.8 | 471.6 | 478.3 | 473.8 |
| 5° | 339.2 | 329.5 | 326.6 | 316.1 | 312.4 | 302.8 | 305.7 | 302.0 |
| 7.5° | 213.5 | 203.8 | 200.8 | 193.4 | 188.9 | 181.5 | 182.2 | 180.0 |
| 10° | 130.2 | 121.2 | 119.0 | 116.8 | 114.6 | 113.8 | 114.6 | 113.8 |
| 12.5° | 118.3 | 117.5 | 116.0 | 116.8 | 115.3 | 116.0 | 116.8 | 116.0 |
| 15° | 128.7 | 130.2 | 128.7 | 129.4 | 128.7 | 130.2 | 130.9 | 130.9 |
| 17.5° | 151.0 | 154.0 | 152.5 | 154.7 | 154.0 | 157.7 | 157.7 | 157.7 |
| 20° | 185.2 | 190.4 | 188.9 | 191.9 | 191.9 | 196.4 | 196.4 | 197.9 |
| 22.5° | 232.8 | 239.5 | 238.8 | 245.5 | 244.0 | 249.2 | 249.2 | 250.7 |
| 25° | 290.1 | 296.8 | 297.5 | 302.0 | 301.3 | 306.5 | 306.5 | 308.0 |
| 27.5° | 313.9 | 317.6 | 316.9 | 319.1 | 319.9 | 322.8 | 325.1 | 323.6 |
| 30° | 294.6 | 297.5 | 296.8 | 298.3 | 298.3 | 300.5 | 302.8 | 300.5 |
| 32.5° | 247.7 | 249.9 | 249.9 | 252.9 | 250.7 | 251.4 | 255.1 | 252.9 |
| 35° | 189.7 | 191.2 | 189.7 | 191.2 | 191.9 | 191.9 | 195.6 | 194.9 |
| 37.5° | 135.4 | 136.1 | 136.1 | 138.4 | 136.1 | 136.1 | 139.8 | 140.6 |
| 40° | 90.8 | 91.5 | 90.8 | 93.7 | 92.2 | 92.2 | 94.5 | 92.2 |
| 42.5° | 58.0 | 58.8 | 58.0 | 60.3 | 58.8 | 60.3 | 61.0 | 61.7 |
| 45° | 35.7 | 35.7 | 35.0 | 36.4 | 35.7 | 36.4 | 37.2 | 37.2 |
| 47.5° | 20.8 | 20.8 | 20.1 | 21.6 | 20.8 | 20.8 | 20.8 | 21.6 |
| 50° | 11.2 | 11.2 | 11.2 | 11.9 | 11.2 | 11.2 | 11.2 | 10.4 |
| 52.5° | 6.0 | 6.0 | 5.2 | 6.0 | 5.2 | 5.2 | 5.2 | 5.2 |
| 55° | 3.0 | 2.2 | 2.2 | 2.2 | 1.5 | 1.5 | 1.5 | 1.5 |
| 57.5° | 2.2 | 1.5 | 1.5 | 0.7 | 0.7 | 0.7 | 0.0 | 0.0 |
| 60° | 1.5 | 1.5 | 0.7 | 0.7 | 0.0 | 0.0 | 0.0 | 0.0 |
| 62.5° | 1.5 | 1.5 | 0.7 | 0.7 | 0.0 | 0.0 | 0.0 | 0.0 |
| 65° | 1.5 | 1.5 | 0.7 | 0.7 | 0.0 | 0.0 | 0.0 | 0.0 |
| 67.5° | 2.2 | 1.5 | 1.5 | 0.7 | 0.7 | 0.0 | 0.0 | 0.0 |
| 70° | 2.2 | 1.5 | 1.5 | 0.7 | 0.7 | 0.0 | 0.0 | 0.0 |
| 72.5° | 2.2 | 1.5 | 1.5 | 1.5 | 0.7 | 0.7 | 0.0 | 0.0 |
| 75° | 2.2 | 2.2 | 1.5 | 1.5 | 0.7 | 0.7 | 0.0 | 0.0 |
| 77.5° | 3.0 | 2.2 | 1.5 | 1.5 | 0.7 | 0.7 | 0.0 | 0.0 |
| 80° | 3.0 | 2.2 | 1.5 | 1.5 | 1.5 | 0.7 | 0.7 | 0.7 |
| 82.5° | 3.0 | 2.2 | 2.2 | 1.5 | 1.5 | 0.7 | 0.7 | 0.7 |
| 85° | 3.0 | 2.2 | 2.2 | 1.5 | 1.5 | 0.7 | 0.7 | 0.7 |
| 87.5° | 3.0 | 2.2 | 2.2 | 1.5 | 1.5 | 0.7 | 0.7 | 0.7 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



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













(END OF REPORT)