

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State  
Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: PORTFOLIO

Report Number: P246117

Luminaire Tested: **LSR8B30D010 EC8B30835 8LBDW0B**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P246117  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13957)  
Test Lab: INNOVATION CENTER-P1  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B30D010 EC8B30835 8LBDW0B  
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT- CYLINDEC  
80 CRI 3500 CCT WITH SPECULAR BLACK TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2775.0 lumens  
Efficiency: N/A  
Efficacy: 102.4 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.26 / 1.18  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

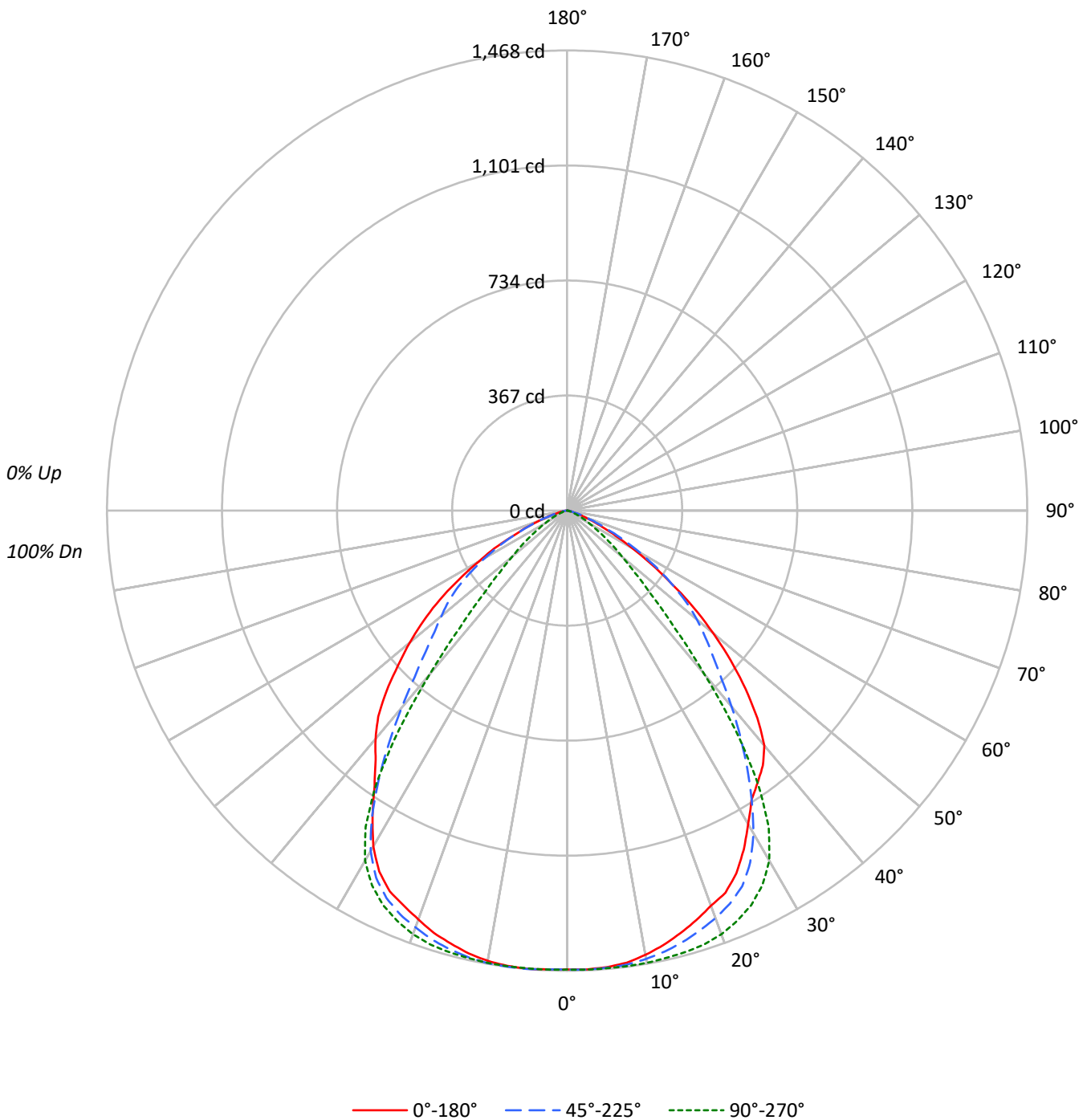
Input Watts (W): 27.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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  | 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   | 112 | 108 | 105 | 102 | 109 | 106 | 103 | 100 | 102 | 99  | 97  | 98  | 96  | 94  | 94  | 93  | 91  | 90  |
| 2   | 104 | 97  | 92  | 88  | 101 | 96  | 91  | 87  | 92  | 88  | 85  | 89  | 86  | 83  | 86  | 83  | 81  | 79  |
| 3   | 96  | 88  | 81  | 76  | 94  | 86  | 80  | 75  | 84  | 78  | 74  | 81  | 77  | 73  | 79  | 75  | 72  | 70  |
| 4   | 89  | 80  | 72  | 67  | 87  | 78  | 72  | 66  | 76  | 70  | 66  | 74  | 69  | 65  | 72  | 67  | 64  | 62  |
| 5   | 83  | 72  | 65  | 59  | 81  | 71  | 64  | 59  | 69  | 63  | 58  | 68  | 62  | 58  | 66  | 61  | 57  | 55  |
| 6   | 78  | 66  | 58  | 53  | 76  | 65  | 58  | 53  | 64  | 57  | 52  | 62  | 56  | 52  | 61  | 55  | 51  | 50  |
| 7   | 72  | 61  | 53  | 48  | 71  | 60  | 53  | 48  | 59  | 52  | 47  | 57  | 51  | 47  | 56  | 51  | 47  | 45  |
| 8   | 68  | 56  | 48  | 43  | 66  | 55  | 48  | 43  | 54  | 48  | 43  | 53  | 47  | 43  | 52  | 46  | 42  | 41  |
| 9   | 64  | 52  | 44  | 39  | 62  | 51  | 44  | 39  | 50  | 44  | 39  | 49  | 43  | 39  | 48  | 43  | 39  | 37  |
| 10  | 60  | 48  | 41  | 36  | 59  | 48  | 41  | 36  | 47  | 40  | 36  | 46  | 40  | 36  | 45  | 40  | 36  | 34  |

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

|     | 0°    | 90°   | 180°  |
|-----|-------|-------|-------|
| 0°  | 45147 | 45147 | 45147 |
| 5°  | 45249 | 45369 | 45419 |
| 10° | 45058 | 45869 | 45672 |
| 15° | 44560 | 46542 | 45664 |
| 20° | 44025 | 47195 | 45544 |
| 25° | 43452 | 47249 | 45592 |
| 30° | 41108 | 45922 | 44045 |
| 35° | 39880 | 39910 | 40324 |
| 40° | 39388 | 27461 | 38282 |
| 45° | 35097 | 16484 | 35576 |
| 50° | 29182 | 10971 | 31446 |
| 55° | 21886 | 7564  | 26660 |
| 60° | 14832 | 5039  | 20118 |
| 65° | 8946  | 3269  | 13820 |
| 70° | 4959  | 1776  | 8502  |
| 75° | 2252  | 751   | 4396  |
| 80° | 1953  | 835   | 3072  |
| 85° | 2229  | 1097  | 3078  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 139.7  | 5.0       |
| 10°-20°   | 405.8  | 14.6      |
| 20°-30°   | 615.9  | 22.2      |
| 30°-40°   | 646.9  | 23.3      |
| 40°-50°   | 485.0  | 17.5      |
| 50°-60°   | 311.2  | 11.2      |
| 60°-70°   | 133.1  | 4.8       |
| 70°-80°   | 31.5   | 1.1       |
| 80°-90°   | 5.9    | 0.2       |
| 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°    | 1161.5 | 41.9      |
| 0°-40°    | 1808.4 | 65.2      |
| 0°-60°    | 2604.6 | 93.9      |
| 0°-90°    | 2775.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 2775.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45°  | 90°  | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0°  | 1464 | 1464 | 1464 | 1464 | 1464 |      |
| 5°  | 1462 | 1464 | 1466 | 1468 | 1467 | 139  |
| 15° | 1396 | 1425 | 1458 | 1448 | 1430 | 394  |
| 25° | 1277 | 1322 | 1389 | 1364 | 1340 | 583  |
| 35° | 1059 | 1000 | 1060 | 1048 | 1071 | 665  |
| 45° | 805  | 658  | 378  | 639  | 816  | 616  |
| 55° | 407  | 407  | 141  | 424  | 496  | 369  |
| 65° | 123  | 145  | 45   | 186  | 189  | 131  |
| 75° | 19   | 22   | 6    | 38   | 37   | 27   |
| 85° | 6    | 4    | 3    | 6    | 9    | 7    |
| 90° | 0    | 0    | 0    | 0    | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1464.1 | 1464.1 | 1464.1 | 1464.1 | 1464.1 | 1464.1 | 1464.1 | 1464.1 | 1464.1 | 1464.1 | 1464.1 |
| 2.5°  | 1464.9 | 1466.5 | 1465.7 | 1465.7 | 1464.9 | 1465.7 | 1465.7 | 1467.3 | 1467.3 | 1465.7 | 1464.9 |
| 5°    | 1461.8 | 1463.4 | 1463.4 | 1461.8 | 1461.8 | 1465.7 | 1463.4 | 1464.9 | 1464.9 | 1464.1 | 1464.1 |
| 7.5°  | 1454.7 | 1454.7 | 1457.9 | 1455.5 | 1455.5 | 1457.9 | 1457.1 | 1458.6 | 1460.2 | 1461.0 | 1461.0 |
| 10°   | 1439.0 | 1440.6 | 1441.4 | 1441.4 | 1442.1 | 1444.5 | 1446.1 | 1449.2 | 1450.8 | 1452.4 | 1453.1 |
| 12.5° | 1419.4 | 1421.7 | 1422.5 | 1421.7 | 1424.1 | 1427.2 | 1431.1 | 1435.1 | 1437.4 | 1440.6 | 1442.9 |
| 15°   | 1395.8 | 1395.8 | 1397.3 | 1399.7 | 1401.3 | 1406.0 | 1409.9 | 1414.6 | 1420.9 | 1424.9 | 1428.8 |
| 17.5° | 1369.8 | 1371.4 | 1373.8 | 1373.8 | 1376.9 | 1384.8 | 1387.1 | 1394.2 | 1401.3 | 1405.2 | 1413.1 |
| 20°   | 1341.6 | 1343.1 | 1345.5 | 1347.1 | 1351.0 | 1357.3 | 1362.0 | 1368.3 | 1376.1 | 1383.2 | 1391.1 |
| 22.5° | 1319.5 | 1316.4 | 1318.0 | 1319.5 | 1323.5 | 1329.0 | 1334.5 | 1342.3 | 1350.2 | 1357.3 | 1365.1 |
| 25°   | 1277.1 | 1277.9 | 1280.2 | 1281.8 | 1286.5 | 1291.2 | 1297.5 | 1307.0 | 1314.0 | 1321.9 | 1330.5 |
| 27.5° | 1219.7 | 1220.5 | 1224.4 | 1224.4 | 1228.4 | 1236.2 | 1240.2 | 1248.0 | 1257.5 | 1265.3 | 1275.5 |
| 30°   | 1154.5 | 1156.1 | 1156.1 | 1159.2 | 1161.6 | 1165.5 | 1169.4 | 1177.3 | 1182.0 | 1189.1 | 1203.2 |
| 32.5° | 1094.8 | 1096.3 | 1095.5 | 1094.8 | 1092.4 | 1091.6 | 1090.8 | 1092.4 | 1094.0 | 1096.3 | 1101.8 |
| 35°   | 1059.4 | 1055.5 | 1052.3 | 1046.8 | 1040.5 | 1032.7 | 1025.6 | 1016.2 | 1007.5 | 1000.5 | 992.6  |
| 37.5° | 1025.6 | 1024.8 | 1020.1 | 1012.2 | 999.7  | 985.5  | 969.0  | 948.6  | 928.2  | 906.2  | 884.9  |
| 40°   | 978.5  | 976.1  | 972.2  | 961.2  | 947.0  | 929.7  | 907.7  | 882.6  | 849.6  | 815.8  | 781.2  |
| 42.5° | 898.3  | 899.1  | 894.4  | 885.7  | 872.4  | 855.8  | 833.1  | 805.6  | 770.2  | 730.1  | 685.3  |
| 45°   | 804.8  | 804.8  | 803.2  | 796.1  | 786.7  | 773.3  | 756.0  | 733.3  | 698.7  | 657.8  | 609.9  |
| 47.5° | 707.3  | 708.1  | 705.7  | 704.2  | 700.2  | 691.6  | 679.0  | 661.7  | 637.4  | 598.1  | 550.1  |
| 50°   | 608.3  | 608.3  | 612.2  | 611.4  | 611.4  | 608.3  | 602.8  | 592.6  | 571.4  | 539.9  | 495.1  |
| 52.5° | 509.3  | 510.8  | 513.2  | 516.3  | 520.3  | 526.6  | 520.3  | 515.6  | 502.2  | 477.8  | 439.3  |
| 55°   | 407.1  | 408.7  | 412.6  | 418.1  | 422.8  | 429.1  | 430.7  | 430.7  | 423.6  | 407.1  | 378.0  |
| 57.5° | 319.9  | 317.5  | 320.7  | 325.4  | 331.7  | 337.9  | 342.7  | 348.2  | 347.4  | 336.4  | 312.8  |
| 60°   | 240.5  | 241.3  | 243.6  | 248.4  | 253.1  | 258.6  | 264.9  | 269.6  | 271.9  | 266.4  | 251.5  |
| 62.5° | 175.3  | 175.3  | 178.4  | 183.1  | 185.5  | 193.3  | 197.3  | 199.6  | 202.0  | 201.2  | 191.8  |
| 65°   | 122.6  | 124.2  | 125.7  | 128.1  | 130.5  | 135.2  | 137.5  | 142.2  | 143.8  | 144.6  | 137.5  |
| 67.5° | 86.5   | 84.1   | 85.7   | 87.2   | 89.6   | 92.7   | 97.5   | 97.5   | 99.8   | 99.8   | 95.1   |
| 70°   | 55.0   | 55.0   | 55.8   | 58.2   | 59.7   | 60.5   | 62.1   | 63.7   | 66.0   | 65.2   | 65.2   |
| 72.5° | 36.9   | 36.2   | 36.9   | 37.7   | 38.5   | 40.9   | 40.9   | 41.7   | 43.2   | 44.0   | 40.9   |
| 75°   | 18.9   | 19.7   | 21.2   | 20.4   | 22.8   | 21.2   | 22.0   | 24.4   | 23.6   | 22.0   | 22.0   |
| 77.5° | 15.7   | 15.7   | 15.7   | 14.9   | 16.5   | 16.5   | 15.7   | 17.3   | 16.5   | 16.5   | 15.7   |
| 80°   | 11.0   | 11.8   | 11.0   | 10.2   | 11.0   | 10.2   | 10.2   | 10.2   | 10.2   | 10.2   | 9.4    |
| 82.5° | 8.7    | 7.1    | 7.9    | 7.1    | 7.9    | 7.9    | 7.1    | 6.3    | 6.3    | 7.1    | 6.3    |
| 85°   | 6.3    | 4.7    | 5.5    | 5.5    | 4.7    | 4.7    | 4.7    | 4.7    | 4.7    | 3.9    | 3.9    |
| 87.5° | 3.9    | 2.4    | 2.4    | 2.4    | 3.1    | 3.1    | 3.1    | 2.4    | 3.1    | 3.1    | 1.6    |
| 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):**

|       | 55°    | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    | 95°    | 100°   | 105°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1464.1 | 1464.1 | 1464.1 | 1464.1 | 1464.1 | 1464.1 | 1464.1 | 1464.1 | 1464.1 | 1464.1 | 1464.1 |
| 2.5°  | 1466.5 | 1465.7 | 1467.3 | 1466.5 | 1466.5 | 1465.7 | 1466.5 | 1465.7 | 1467.3 | 1464.1 | 1464.9 |
| 5°    | 1466.5 | 1464.9 | 1465.7 | 1466.5 | 1467.3 | 1465.7 | 1465.7 | 1465.7 | 1467.3 | 1465.7 | 1466.5 |
| 7.5°  | 1463.4 | 1462.6 | 1464.9 | 1466.5 | 1465.7 | 1464.9 | 1466.5 | 1465.7 | 1467.3 | 1466.5 | 1468.1 |
| 10°   | 1457.1 | 1457.9 | 1459.4 | 1461.8 | 1462.6 | 1463.4 | 1464.9 | 1464.9 | 1467.3 | 1464.1 | 1465.7 |
| 12.5° | 1447.6 | 1450.8 | 1454.7 | 1456.3 | 1459.4 | 1459.4 | 1461.0 | 1461.8 | 1463.4 | 1462.6 | 1464.9 |
| 15°   | 1435.9 | 1439.8 | 1444.5 | 1448.4 | 1452.4 | 1454.7 | 1457.1 | 1457.9 | 1460.2 | 1457.9 | 1458.6 |
| 17.5° | 1421.7 | 1426.4 | 1433.5 | 1438.2 | 1444.5 | 1446.9 | 1450.0 | 1451.6 | 1453.9 | 1452.4 | 1453.1 |
| 20°   | 1402.1 | 1407.6 | 1415.4 | 1422.5 | 1426.4 | 1431.9 | 1435.9 | 1438.2 | 1439.8 | 1438.2 | 1439.0 |
| 22.5° | 1374.6 | 1382.4 | 1392.6 | 1398.1 | 1406.0 | 1410.7 | 1411.5 | 1417.0 | 1420.9 | 1417.0 | 1418.6 |
| 25°   | 1342.3 | 1350.2 | 1358.1 | 1369.8 | 1376.9 | 1382.4 | 1387.9 | 1388.7 | 1392.6 | 1391.8 | 1391.1 |
| 27.5° | 1288.9 | 1299.1 | 1312.5 | 1321.9 | 1331.3 | 1340.0 | 1346.3 | 1347.8 | 1351.8 | 1350.2 | 1351.0 |
| 30°   | 1215.8 | 1226.8 | 1239.4 | 1254.3 | 1267.7 | 1276.3 | 1284.2 | 1289.7 | 1293.6 | 1291.2 | 1290.5 |
| 32.5° | 1112.1 | 1123.1 | 1136.4 | 1151.4 | 1167.1 | 1179.6 | 1189.1 | 1196.2 | 1200.9 | 1199.3 | 1195.4 |
| 35°   | 993.4  | 996.5  | 1005.2 | 1017.0 | 1030.3 | 1043.7 | 1052.3 | 1060.2 | 1065.7 | 1067.3 | 1067.3 |
| 37.5° | 871.6  | 861.4  | 855.1  | 855.1  | 862.9  | 868.4  | 876.3  | 881.0  | 889.7  | 892.8  | 895.2  |
| 40°   | 753.7  | 730.1  | 708.1  | 691.6  | 680.6  | 679.8  | 679.8  | 682.2  | 690.0  | 700.2  | 709.7  |
| 42.5° | 648.4  | 610.6  | 576.9  | 546.2  | 524.2  | 511.6  | 506.1  | 506.9  | 513.2  | 522.6  | 538.3  |
| 45°   | 564.3  | 517.1  | 474.7  | 437.7  | 407.9  | 388.2  | 378.8  | 378.0  | 382.7  | 393.7  | 411.0  |
| 47.5° | 499.1  | 448.7  | 400.8  | 358.4  | 326.2  | 304.9  | 293.9  | 290.8  | 293.9  | 304.1  | 324.6  |
| 50°   | 444.8  | 393.0  | 343.4  | 299.4  | 264.9  | 242.9  | 232.6  | 228.7  | 232.6  | 241.3  | 261.7  |
| 52.5° | 394.5  | 341.1  | 294.7  | 252.3  | 215.3  | 196.5  | 185.5  | 183.1  | 185.5  | 195.7  | 212.2  |
| 55°   | 336.4  | 290.8  | 245.2  | 202.8  | 170.5  | 151.7  | 143.0  | 140.7  | 143.0  | 152.5  | 169.8  |
| 57.5° | 279.0  | 239.7  | 199.6  | 161.1  | 133.6  | 117.1  | 109.2  | 106.1  | 111.6  | 117.9  | 138.3  |
| 60°   | 225.5  | 194.1  | 160.3  | 126.5  | 103.7  | 88.8   | 82.5   | 81.7   | 83.3   | 91.2   | 105.3  |
| 62.5° | 176.8  | 150.9  | 124.2  | 96.7   | 77.8   | 71.5   | 63.7   | 62.9   | 64.4   | 69.2   | 80.2   |
| 65°   | 127.3  | 110.8  | 90.4   | 70.7   | 55.8   | 47.2   | 44.0   | 44.8   | 46.4   | 49.5   | 59.7   |
| 67.5° | 88.8   | 77.0   | 62.9   | 49.5   | 38.5   | 34.6   | 31.4   | 30.7   | 31.4   | 36.9   | 42.4   |
| 70°   | 59.7   | 52.7   | 42.4   | 37.7   | 26.7   | 21.2   | 22.0   | 19.7   | 22.8   | 22.8   | 27.5   |
| 72.5° | 39.3   | 34.6   | 28.3   | 22.0   | 18.9   | 14.9   | 14.9   | 14.2   | 15.7   | 16.5   | 20.4   |
| 75°   | 20.4   | 15.7   | 15.7   | 11.0   | 7.9    | 3.9    | 7.1    | 6.3    | 5.5    | 6.3    | 7.9    |
| 77.5° | 14.2   | 11.8   | 11.0   | 8.7    | 7.9    | 6.3    | 6.3    | 6.3    | 6.3    | 7.1    | 7.9    |
| 80°   | 8.7    | 8.7    | 6.3    | 5.5    | 4.7    | 3.9    | 4.7    | 4.7    | 4.7    | 4.7    | 5.5    |
| 82.5° | 5.5    | 4.7    | 4.7    | 3.9    | 3.9    | 3.1    | 3.1    | 3.1    | 3.1    | 3.1    | 4.7    |
| 85°   | 4.7    | 3.1    | 3.1    | 2.4    | 3.1    | 5.5    | 2.4    | 3.1    | 3.1    | 3.1    | 2.4    |
| 87.5° | 1.6    | 2.4    | 2.4    | 2.4    | 1.6    | 0.8    | 1.6    | 2.4    | 2.4    | 3.9    | 3.1    |
| 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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**CANDELA DISTRIBUTION (continued):**

|       | 110°   | 115°   | 120°   | 125°   | 130°   | 135°   | 140°   | 145°   | 150°   | 155°   | 160°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1464.1 | 1464.1 | 1464.1 | 1464.1 | 1464.1 | 1464.1 | 1464.1 | 1464.1 | 1464.1 | 1464.1 | 1464.1 |
| 2.5°  | 1466.5 | 1467.3 | 1467.3 | 1466.5 | 1466.5 | 1464.9 | 1468.1 | 1465.7 | 1466.5 | 1469.6 | 1467.3 |
| 5°    | 1468.1 | 1468.9 | 1468.9 | 1468.1 | 1468.1 | 1468.1 | 1468.9 | 1468.9 | 1468.1 | 1467.3 | 1468.9 |
| 7.5°  | 1471.2 | 1470.4 | 1470.4 | 1468.9 | 1468.9 | 1467.3 | 1468.9 | 1466.5 | 1468.1 | 1466.5 | 1468.9 |
| 10°   | 1467.3 | 1468.1 | 1467.3 | 1466.5 | 1466.5 | 1465.7 | 1465.7 | 1463.4 | 1464.1 | 1461.8 | 1463.4 |
| 12.5° | 1464.9 | 1464.1 | 1464.1 | 1462.6 | 1461.0 | 1459.4 | 1458.6 | 1456.3 | 1456.3 | 1450.8 | 1453.1 |
| 15°   | 1458.6 | 1459.4 | 1457.1 | 1453.9 | 1452.4 | 1448.4 | 1446.9 | 1443.7 | 1440.6 | 1436.6 | 1437.4 |
| 17.5° | 1453.1 | 1450.8 | 1447.6 | 1444.5 | 1438.2 | 1435.1 | 1431.9 | 1427.2 | 1425.6 | 1420.9 | 1419.4 |
| 20°   | 1436.6 | 1435.1 | 1431.1 | 1425.6 | 1421.7 | 1414.6 | 1411.5 | 1406.8 | 1402.8 | 1398.1 | 1395.8 |
| 22.5° | 1415.4 | 1413.8 | 1409.1 | 1403.6 | 1397.3 | 1394.2 | 1391.1 | 1382.4 | 1378.5 | 1373.8 | 1373.0 |
| 25°   | 1388.7 | 1386.3 | 1381.6 | 1375.3 | 1372.2 | 1363.6 | 1360.4 | 1354.1 | 1352.6 | 1347.8 | 1347.1 |
| 27.5° | 1347.8 | 1344.7 | 1339.2 | 1331.3 | 1325.8 | 1320.3 | 1317.2 | 1312.5 | 1310.9 | 1306.2 | 1305.4 |
| 30°   | 1286.5 | 1282.6 | 1271.6 | 1268.5 | 1259.0 | 1253.5 | 1253.5 | 1247.2 | 1248.0 | 1244.9 | 1244.9 |
| 32.5° | 1189.9 | 1183.6 | 1174.9 | 1168.6 | 1162.4 | 1159.2 | 1159.2 | 1156.9 | 1158.4 | 1158.4 | 1160.0 |
| 35°   | 1061.8 | 1053.1 | 1048.4 | 1044.5 | 1044.5 | 1047.6 | 1057.0 | 1059.4 | 1064.1 | 1068.0 | 1071.2 |
| 37.5° | 897.5  | 896.7  | 902.2  | 906.9  | 918.7  | 932.1  | 948.6  | 962.7  | 976.1  | 985.5  | 995.0  |
| 40°   | 719.9  | 739.5  | 755.3  | 777.3  | 795.3  | 821.3  | 851.1  | 875.5  | 898.3  | 914.8  | 932.1  |
| 42.5° | 561.9  | 587.1  | 620.1  | 652.3  | 684.5  | 719.9  | 759.2  | 793.0  | 822.8  | 845.6  | 863.7  |
| 45°   | 437.7  | 472.3  | 512.4  | 553.3  | 594.9  | 639.0  | 679.8  | 714.4  | 745.8  | 769.4  | 787.5  |
| 47.5° | 352.9  | 390.6  | 436.2  | 481.0  | 528.1  | 574.5  | 620.1  | 650.0  | 675.9  | 694.7  | 711.3  |
| 50°   | 291.6  | 331.7  | 379.6  | 430.7  | 477.8  | 524.2  | 563.5  | 592.6  | 613.8  | 630.3  | 640.5  |
| 52.5° | 243.6  | 286.1  | 337.2  | 388.2  | 435.4  | 477.8  | 513.2  | 535.2  | 552.5  | 564.3  | 573.7  |
| 55°   | 201.2  | 242.1  | 290.0  | 337.9  | 384.3  | 424.4  | 453.5  | 470.0  | 483.3  | 490.4  | 495.9  |
| 57.5° | 164.3  | 202.0  | 246.0  | 290.0  | 330.1  | 363.1  | 385.9  | 402.4  | 408.7  | 414.2  | 413.4  |
| 60°   | 128.9  | 164.3  | 204.3  | 242.1  | 276.6  | 303.4  | 319.9  | 329.3  | 334.0  | 336.4  | 334.8  |
| 62.5° | 101.4  | 133.6  | 164.3  | 197.3  | 222.4  | 245.2  | 260.9  | 260.9  | 263.3  | 264.1  | 266.4  |
| 65°   | 75.4   | 99.8   | 126.5  | 150.9  | 171.3  | 186.3  | 194.9  | 197.3  | 200.4  | 199.6  | 198.0  |
| 67.5° | 55.8   | 73.9   | 93.5   | 111.6  | 125.7  | 135.2  | 141.5  | 147.0  | 146.2  | 144.6  | 143.8  |
| 70°   | 38.5   | 50.3   | 67.6   | 78.6   | 88.8   | 98.2   | 99.8   | 100.6  | 101.4  | 102.2  | 100.6  |
| 72.5° | 26.7   | 35.4   | 44.8   | 54.2   | 60.5   | 64.4   | 68.4   | 69.2   | 69.2   | 69.2   | 68.4   |
| 75°   | 13.4   | 18.1   | 26.7   | 30.7   | 36.2   | 37.7   | 40.9   | 40.9   | 43.2   | 40.1   | 39.3   |
| 77.5° | 11.8   | 14.2   | 18.9   | 22.0   | 24.4   | 26.7   | 27.5   | 29.9   | 29.1   | 27.5   | 28.3   |
| 80°   | 7.1    | 8.7    | 11.8   | 13.4   | 16.5   | 17.3   | 18.1   | 18.9   | 18.1   | 18.9   | 18.9   |
| 82.5° | 5.5    | 6.3    | 7.9    | 7.9    | 10.2   | 10.2   | 11.0   | 11.0   | 11.8   | 11.8   | 11.8   |
| 85°   | 3.1    | 5.5    | 4.7    | 9.4    | 6.3    | 6.3    | 7.9    | 9.4    | 7.9    | 7.9    | 9.4    |
| 87.5° | 3.1    | 3.1    | 2.4    | 3.1    | 3.1    | 3.1    | 3.9    | 4.7    | 4.7    | 5.5    | 4.7    |
| 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: P246117

CATALOG NUMBER: LSR8B30D010 EC8B30835 8LBDW0B

**CANDELA DISTRIBUTION (continued):**

|       | 165°   | 170°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|
| 0°    | 1464.1 | 1464.1 | 1464.1 | 1464.1 |
| 2.5°  | 1466.5 | 1468.1 | 1465.7 | 1464.9 |
| 5°    | 1468.9 | 1468.9 | 1467.3 | 1467.3 |
| 7.5°  | 1468.9 | 1468.9 | 1466.5 | 1464.9 |
| 10°   | 1462.6 | 1462.6 | 1460.2 | 1458.6 |
| 12.5° | 1450.8 | 1450.8 | 1450.0 | 1447.6 |
| 15°   | 1435.9 | 1435.9 | 1432.7 | 1430.4 |
| 17.5° | 1415.4 | 1417.0 | 1413.1 | 1413.1 |
| 20°   | 1393.4 | 1392.6 | 1389.5 | 1387.9 |
| 22.5° | 1370.6 | 1369.1 | 1368.3 | 1363.6 |
| 25°   | 1346.3 | 1344.7 | 1342.3 | 1340.0 |
| 27.5° | 1304.6 | 1303.8 | 1301.5 | 1298.3 |
| 30°   | 1240.9 | 1240.2 | 1237.0 | 1237.0 |
| 32.5° | 1158.4 | 1157.6 | 1154.5 | 1155.3 |
| 35°   | 1072.8 | 1075.9 | 1074.3 | 1071.2 |
| 37.5° | 1001.2 | 1003.6 | 1005.2 | 1003.6 |
| 40°   | 941.5  | 948.6  | 949.4  | 951.0  |
| 42.5° | 877.9  | 887.3  | 890.4  | 892.0  |
| 45°   | 801.6  | 810.3  | 817.3  | 815.8  |
| 47.5° | 723.8  | 730.1  | 736.4  | 731.7  |
| 50°   | 649.2  | 653.1  | 655.5  | 655.5  |
| 52.5° | 578.4  | 578.4  | 577.6  | 578.4  |
| 55°   | 497.5  | 497.5  | 494.3  | 495.9  |
| 57.5° | 412.6  | 414.2  | 411.8  | 407.9  |
| 60°   | 334.0  | 330.1  | 328.5  | 326.2  |
| 62.5° | 260.1  | 260.1  | 254.6  | 261.7  |
| 65°   | 194.9  | 192.5  | 190.2  | 189.4  |
| 67.5° | 141.5  | 140.7  | 138.3  | 137.5  |
| 70°   | 99.8   | 96.7   | 95.9   | 94.3   |
| 72.5° | 66.8   | 66.8   | 65.2   | 65.2   |
| 75°   | 40.9   | 36.9   | 36.2   | 36.9   |
| 77.5° | 28.3   | 27.5   | 27.5   | 26.7   |
| 80°   | 18.9   | 18.1   | 19.7   | 17.3   |
| 82.5° | 11.8   | 12.6   | 11.8   | 12.6   |
| 85°   | 7.9    | 9.4    | 8.7    | 8.7    |
| 87.5° | 4.7    | 4.7    | 4.7    | 4.7    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)