

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: P244149

Luminaire Tested: **LSR8B30D010 EC8B309727 8LBSW0LI**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P244149  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-53)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B30D010 EC8B309727 8LBSW0LI  
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT- CYLINDEC  
97 CRI 2700 CCT WITH SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2277.0 lumens  
Efficiency: N/A  
Efficacy: 84.0 lumens/watt  
Spacing Criteria (0/90/45): 1.12 / 1.2 / 1.11  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

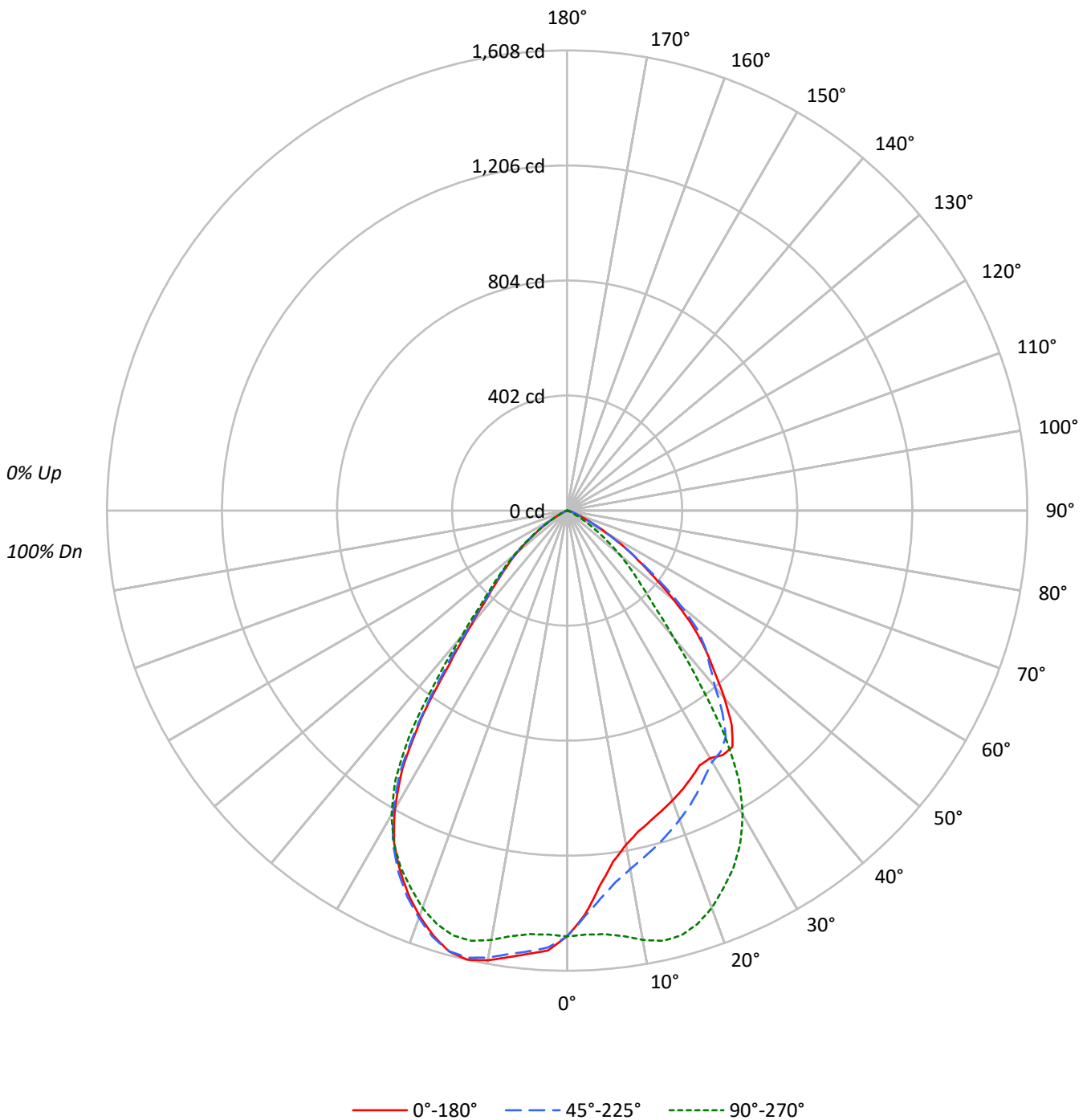
Input Watts (W): 27.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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  | 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 |    |    |    |    | 100 |   |  |   |
| 1   | 112 | 109 | 106 | 104 | 110 | 107 | 104 | 102 | 103 | 101 | 99  | 99  | 97  | 96  | 96  | 94  | 93  | 91  |    |    |    |    | 91  |   |  |   |
| 2   | 105 | 99  | 95  | 91  | 103 | 98  | 93  | 90  | 94  | 91  | 88  | 91  | 88  | 86  | 88  | 86  | 84  | 82  |    |    |    |    | 82  |   |  |   |
| 3   | 99  | 91  | 85  | 80  | 96  | 89  | 84  | 79  | 87  | 82  | 78  | 84  | 80  | 77  | 82  | 78  | 76  | 74  |    |    |    |    | 74  |   |  |   |
| 4   | 92  | 83  | 76  | 71  | 90  | 82  | 76  | 71  | 80  | 74  | 70  | 77  | 73  | 69  | 76  | 72  | 68  | 67  |    |    |    |    | 67  |   |  |   |
| 5   | 86  | 76  | 69  | 64  | 84  | 75  | 69  | 64  | 73  | 68  | 63  | 72  | 66  | 63  | 70  | 65  | 62  | 60  |    |    |    |    | 60  |   |  |   |
| 6   | 81  | 70  | 63  | 58  | 79  | 69  | 63  | 58  | 68  | 62  | 57  | 66  | 61  | 57  | 65  | 60  | 56  | 55  |    |    |    |    | 55  |   |  |   |
| 7   | 76  | 65  | 58  | 53  | 74  | 64  | 57  | 52  | 63  | 57  | 52  | 61  | 56  | 52  | 60  | 55  | 52  | 50  |    |    |    |    | 50  |   |  |   |
| 8   | 71  | 60  | 53  | 48  | 70  | 59  | 53  | 48  | 58  | 52  | 48  | 57  | 52  | 48  | 56  | 51  | 47  | 46  |    |    |    |    | 46  |   |  |   |
| 9   | 67  | 56  | 49  | 44  | 66  | 55  | 49  | 44  | 54  | 48  | 44  | 53  | 48  | 44  | 52  | 47  | 44  | 42  |    |    |    |    | 42  |   |  |   |
| 10  | 63  | 52  | 45  | 41  | 62  | 52  | 45  | 41  | 51  | 45  | 41  | 50  | 44  | 40  | 49  | 44  | 40  | 39  |    |    |    |    | 39  |   |  |   |

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

|     |  |     |      |
|-----|--|-----|------|
|     | 0°   | 90° | 180° |
| 0°  | Luminaire represents a point source (luminous area is zero). |     |      |
| 5°  | No luminance values can be calculated.                       |     |      |
| 10° |  |     |      |
| 15° |  |     |      |
| 20° |  |     |      |
| 25° |  |     |      |
| 30° |  |     |      |
| 35° |  |     |      |
| 40° |  |     |      |
| 45° |  |     |      |
| 50° |  |     |      |
| 55° |  |     |      |
| 60° |  |     |      |
| 65° |  |     |      |
| 70° |  |     |      |
| 75° |  |     |      |
| 80° |  |     |      |
| 85° |  |     |      |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 138.6  | 6.1       |
| 10°-20°   | 400.4  | 17.6      |
| 20°-30°   | 581.2  | 25.5      |
| 30°-40°   | 572.4  | 25.1      |
| 40°-50°   | 358.8  | 15.8      |
| 50°-60°   | 173.1  | 7.6       |
| 60°-70°   | 41.9   | 1.8       |
| 70°-80°   | 8.5    | 0.4       |
| 80°-90°   | 1.9    | 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°    | 1120.3 | 49.2      |
| 0°-40°    | 1692.7 | 74.3      |
| 0°-60°    | 2224.7 | 97.7      |
| 0°-90°    | 2277.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 2277.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45°  | 90°  | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0°  | 1488 | 1488 | 1488 | 1488 | 1488 |      |
| 5°  | 1315 | 1359 | 1486 | 1546 | 1555 | 122  |
| 15° | 1123 | 1212 | 1538 | 1594 | 1595 | 318  |
| 25° | 1029 | 1082 | 1376 | 1394 | 1384 | 476  |
| 35° | 1007 | 966  | 960  | 906  | 891  | 609  |
| 45° | 680  | 685  | 363  | 348  | 338  | 520  |
| 55° | 302  | 312  | 132  | 130  | 124  | 278  |
| 65° | 71   | 70   | 20   | 17   | 15   | 81   |
| 75° | 17   | 15   | 4    | 2    | 2    | 19   |
| 85° | 5    | 4    | 1    | 0    | 0    | 5    |
| 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°    | 1487.5 | 1487.5 | 1487.5 | 1487.5 | 1487.5 | 1487.5 | 1487.5 | 1487.5 | 1487.5 | 1487.5 | 1487.5 |
| 2.5°  | 1414.0 | 1405.1 | 1388.2 | 1408.6 | 1408.6 | 1397.2 | 1419.9 | 1406.2 | 1417.2 | 1434.4 | 1419.1 |
| 5°    | 1314.8 | 1307.3 | 1293.3 | 1314.8 | 1317.5 | 1307.0 | 1334.3 | 1324.1 | 1340.2 | 1361.3 | 1359.3 |
| 7.5°  | 1236.2 | 1226.8 | 1213.9 | 1236.2 | 1240.5 | 1233.5 | 1259.7 | 1255.0 | 1276.1 | 1303.4 | 1308.1 |
| 10°   | 1185.0 | 1175.2 | 1163.9 | 1184.2 | 1187.4 | 1182.7 | 1209.2 | 1206.5 | 1227.2 | 1258.9 | 1271.4 |
| 12.5° | 1148.7 | 1140.5 | 1127.9 | 1149.4 | 1153.0 | 1146.3 | 1171.3 | 1170.2 | 1191.7 | 1224.9 | 1240.5 |
| 15°   | 1123.3 | 1113.5 | 1102.2 | 1120.5 | 1125.2 | 1117.8 | 1141.6 | 1139.3 | 1161.2 | 1194.0 | 1211.6 |
| 17.5° | 1099.4 | 1090.4 | 1078.7 | 1095.9 | 1100.6 | 1092.8 | 1116.2 | 1112.3 | 1131.1 | 1162.3 | 1180.3 |
| 20°   | 1077.1 | 1067.4 | 1056.8 | 1074.4 | 1077.1 | 1068.2 | 1091.6 | 1086.5 | 1103.3 | 1132.2 | 1149.8 |
| 22.5° | 1054.1 | 1043.9 | 1033.0 | 1050.2 | 1052.9 | 1043.9 | 1065.4 | 1059.6 | 1075.2 | 1101.4 | 1117.4 |
| 25°   | 1028.7 | 1019.3 | 1008.4 | 1024.4 | 1026.7 | 1017.0 | 1039.6 | 1032.2 | 1045.9 | 1068.9 | 1082.2 |
| 27.5° | 1003.3 | 994.3  | 982.2  | 998.6  | 999.8  | 990.4  | 1011.1 | 1000.9 | 1012.3 | 1033.4 | 1044.7 |
| 30°   | 999.0  | 988.8  | 976.3  | 989.6  | 990.0  | 977.9  | 997.4  | 985.3  | 991.5  | 1007.2 | 1013.8 |
| 32.5° | 1012.7 | 1002.5 | 989.6  | 1000.5 | 999.4  | 986.1  | 1004.8 | 990.0  | 991.9  | 1000.1 | 998.6  |
| 35°   | 1007.2 | 995.1  | 979.8  | 991.5  | 991.5  | 975.5  | 994.3  | 976.7  | 974.7  | 975.9  | 966.1  |
| 37.5° | 945.0  | 935.7  | 921.2  | 932.5  | 931.4  | 919.2  | 933.7  | 919.2  | 912.6  | 909.9  | 892.3  |
| 40°   | 853.6  | 842.2  | 831.3  | 843.4  | 844.6  | 831.7  | 850.5  | 834.0  | 832.1  | 824.3  | 803.6  |
| 42.5° | 761.0  | 757.0  | 746.5  | 756.7  | 762.1  | 751.2  | 766.8  | 759.0  | 760.2  | 758.2  | 738.7  |
| 45°   | 680.1  | 673.4  | 665.6  | 677.3  | 680.8  | 675.4  | 691.0  | 686.3  | 691.0  | 700.8  | 684.7  |
| 47.5° | 592.9  | 586.3  | 577.7  | 590.2  | 596.4  | 586.3  | 599.5  | 598.0  | 605.0  | 621.8  | 620.3  |
| 50°   | 487.8  | 483.1  | 481.5  | 483.1  | 487.0  | 482.3  | 491.7  | 492.1  | 496.8  | 519.8  | 521.4  |
| 52.5° | 386.1  | 385.0  | 379.5  | 384.6  | 384.6  | 377.2  | 386.5  | 382.2  | 386.9  | 402.6  | 412.7  |
| 55°   | 302.1  | 300.9  | 297.4  | 302.1  | 297.0  | 294.3  | 297.0  | 292.7  | 289.2  | 301.3  | 311.9  |
| 57.5° | 235.3  | 231.4  | 227.1  | 229.0  | 228.6  | 222.8  | 225.9  | 220.8  | 218.1  | 222.4  | 231.8  |
| 60°   | 167.7  | 166.5  | 162.6  | 164.5  | 166.1  | 161.8  | 164.9  | 162.6  | 157.9  | 161.4  | 161.8  |
| 62.5° | 111.4  | 112.2  | 109.8  | 110.2  | 109.0  | 108.3  | 110.2  | 111.4  | 110.2  | 108.7  | 109.0  |
| 65°   | 70.7   | 70.4   | 70.0   | 70.4   | 71.1   | 69.6   | 70.7   | 71.5   | 70.4   | 70.4   | 70.0   |
| 67.5° | 46.9   | 45.7   | 44.6   | 45.3   | 46.1   | 44.9   | 46.1   | 45.7   | 46.1   | 45.7   | 44.6   |
| 70°   | 31.7   | 31.3   | 30.9   | 31.3   | 31.3   | 30.5   | 31.3   | 30.9   | 31.3   | 30.9   | 29.7   |
| 72.5° | 23.1   | 23.1   | 22.7   | 23.1   | 23.1   | 22.3   | 22.7   | 21.9   | 22.3   | 21.9   | 21.1   |
| 75°   | 17.2   | 17.2   | 16.8   | 17.2   | 16.8   | 16.4   | 16.8   | 16.4   | 15.6   | 15.6   | 14.9   |
| 77.5° | 12.5   | 12.5   | 12.5   | 12.5   | 12.5   | 12.1   | 12.1   | 11.7   | 11.3   | 10.9   | 10.9   |
| 80°   | 9.4    | 9.0    | 9.0    | 9.0    | 9.0    | 8.6    | 9.0    | 8.6    | 8.2    | 7.8    | 7.4    |
| 82.5° | 6.6    | 7.0    | 6.6    | 6.6    | 6.6    | 6.3    | 6.6    | 6.3    | 6.3    | 5.9    | 5.1    |
| 85°   | 5.1    | 5.1    | 5.1    | 5.1    | 5.1    | 4.7    | 4.7    | 4.7    | 4.3    | 4.3    | 3.9    |
| 87.5° | 2.7    | 2.7    | 2.7    | 3.1    | 2.7    | 2.7    | 2.7    | 2.3    | 2.3    | 2.0    | 2.0    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |



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**CANDELA DISTRIBUTION (continued):**

|       | 50°    | 55°    | 60°    | 65°    | 67.5°  | 70°    | 75°    | 80°    | 85°    | 90°    | 95°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1487.5 | 1487.5 | 1487.5 | 1487.5 | 1487.5 | 1487.5 | 1487.5 | 1487.5 | 1487.5 | 1487.5 | 1487.5 |
| 2.5°  | 1439.4 | 1441.4 | 1437.1 | 1443.7 | 1469.5 | 1448.8 | 1457.4 | 1460.2 | 1479.7 | 1483.2 | 1480.9 |
| 5°    | 1384.7 | 1393.3 | 1398.8 | 1413.7 | 1442.2 | 1427.3 | 1442.6 | 1452.3 | 1477.4 | 1485.6 | 1487.5 |
| 7.5°  | 1341.7 | 1359.7 | 1373.0 | 1397.2 | 1430.8 | 1419.5 | 1442.6 | 1458.6 | 1489.1 | 1499.6 | 1504.7 |
| 10°   | 1309.7 | 1337.0 | 1360.1 | 1393.3 | 1431.2 | 1423.8 | 1453.9 | 1476.6 | 1510.6 | 1523.1 | 1529.3 |
| 12.5° | 1285.5 | 1318.7 | 1349.6 | 1391.8 | 1432.8 | 1429.3 | 1465.6 | 1491.4 | 1527.4 | 1539.9 | 1547.3 |
| 15°   | 1258.9 | 1297.2 | 1333.1 | 1380.4 | 1424.6 | 1423.8 | 1462.9 | 1490.3 | 1527.0 | 1537.5 | 1544.6 |
| 17.5° | 1227.2 | 1268.3 | 1307.7 | 1358.9 | 1402.7 | 1403.5 | 1443.0 | 1469.9 | 1505.9 | 1514.5 | 1519.2 |
| 20°   | 1195.2 | 1235.8 | 1275.3 | 1328.1 | 1371.0 | 1372.2 | 1410.9 | 1435.9 | 1470.3 | 1477.4 | 1478.5 |
| 22.5° | 1161.2 | 1199.1 | 1238.6 | 1290.9 | 1332.4 | 1333.1 | 1371.4 | 1394.9 | 1424.2 | 1427.7 | 1430.8 |
| 25°   | 1122.5 | 1159.6 | 1196.7 | 1248.7 | 1288.2 | 1290.5 | 1325.3 | 1346.0 | 1373.0 | 1375.7 | 1376.9 |
| 27.5° | 1082.2 | 1112.7 | 1148.3 | 1192.8 | 1232.7 | 1231.1 | 1264.0 | 1287.4 | 1311.6 | 1310.1 | 1309.7 |
| 30°   | 1041.6 | 1067.0 | 1088.9 | 1131.9 | 1161.2 | 1162.3 | 1193.2 | 1204.6 | 1230.0 | 1226.8 | 1226.4 |
| 32.5° | 1013.0 | 1019.7 | 1025.6 | 1047.4 | 1075.2 | 1065.4 | 1086.5 | 1100.6 | 1118.2 | 1117.0 | 1117.4 |
| 35°   | 960.7  | 948.6  | 931.0  | 934.1  | 950.9  | 935.7  | 947.0  | 946.6  | 964.6  | 960.3  | 965.4  |
| 37.5° | 871.2  | 836.8  | 797.7  | 775.4  | 778.5  | 759.4  | 755.5  | 764.9  | 771.1  | 759.0  | 763.3  |
| 40°   | 775.8  | 725.0  | 664.0  | 613.2  | 610.5  | 586.6  | 582.3  | 573.0  | 585.1  | 574.9  | 578.0  |
| 42.5° | 705.5  | 638.2  | 558.1  | 496.4  | 483.1  | 463.1  | 451.4  | 449.9  | 453.4  | 446.3  | 444.4  |
| 45°   | 651.5  | 580.0  | 488.2  | 417.4  | 402.6  | 381.1  | 369.3  | 365.0  | 365.4  | 363.1  | 361.1  |
| 47.5° | 588.2  | 516.3  | 423.3  | 351.0  | 334.2  | 313.8  | 302.1  | 299.4  | 300.9  | 297.8  | 295.5  |
| 50°   | 500.7  | 436.2  | 351.4  | 285.3  | 270.5  | 255.6  | 246.2  | 243.5  | 243.1  | 240.8  | 239.2  |
| 52.5° | 406.5  | 352.9  | 279.4  | 224.3  | 211.1  | 196.6  | 189.9  | 186.4  | 186.8  | 184.5  | 182.1  |
| 55°   | 314.6  | 281.4  | 216.5  | 169.6  | 157.5  | 146.2  | 139.9  | 135.6  | 134.4  | 132.1  | 130.9  |
| 57.5° | 234.1  | 211.8  | 162.2  | 122.3  | 115.3  | 104.4  | 98.1   | 93.0   | 92.2   | 91.1   | 90.7   |
| 60°   | 164.2  | 148.1  | 114.1  | 87.2   | 78.9   | 72.3   | 66.1   | 61.0   | 58.6   | 58.2   | 57.1   |
| 62.5° | 106.3  | 96.5   | 75.0   | 58.2   | 52.0   | 47.3   | 41.0   | 37.5   | 36.0   | 34.4   | 34.8   |
| 65°   | 66.1   | 58.6   | 46.9   | 37.5   | 34.0   | 30.5   | 25.8   | 22.7   | 21.1   | 19.5   | 19.9   |
| 67.5° | 41.0   | 36.7   | 29.7   | 24.2   | 21.9   | 19.2   | 15.6   | 13.3   | 12.1   | 10.9   | 10.2   |
| 70°   | 27.7   | 23.8   | 20.3   | 17.2   | 15.6   | 13.7   | 11.3   | 9.4    | 8.6    | 7.8    | 7.0    |
| 72.5° | 19.5   | 17.6   | 14.9   | 12.9   | 11.7   | 10.2   | 8.6    | 7.4    | 6.6    | 5.9    | 5.1    |
| 75°   | 14.1   | 12.5   | 10.9   | 9.4    | 8.6    | 7.8    | 6.6    | 5.9    | 5.1    | 4.3    | 3.5    |
| 77.5° | 10.2   | 9.0    | 7.8    | 7.0    | 6.6    | 5.5    | 4.7    | 4.3    | 3.9    | 3.1    | 2.3    |
| 80°   | 7.0    | 6.3    | 5.1    | 4.7    | 4.7    | 3.9    | 3.5    | 3.1    | 2.7    | 2.0    | 1.6    |
| 82.5° | 4.7    | 4.3    | 3.9    | 3.5    | 3.1    | 2.7    | 2.7    | 2.0    | 1.6    | 1.2    | 0.8    |
| 85°   | 3.5    | 3.1    | 2.7    | 2.3    | 2.3    | 2.0    | 1.6    | 1.2    | 1.2    | 0.8    | 0.4    |
| 87.5° | 2.0    | 2.0    | 1.6    | 1.2    | 1.2    | 0.8    | 0.8    | 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    | 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°    | 1487.5 | 1487.5 | 1487.5 | 1487.5 | 1487.5 | 1487.5 | 1487.5 | 1487.5 | 1487.5 | 1487.5 | 1487.5 |
| 2.5°  | 1500.8 | 1502.0 | 1508.6 | 1503.5 | 1516.4 | 1525.8 | 1521.1 | 1531.7 | 1528.2 | 1527.4 | 1539.5 |
| 5°    | 1511.0 | 1513.7 | 1522.7 | 1518.0 | 1532.1 | 1542.2 | 1537.5 | 1549.3 | 1545.8 | 1545.0 | 1557.5 |
| 7.5°  | 1530.5 | 1533.2 | 1541.1 | 1537.2 | 1552.0 | 1561.0 | 1555.1 | 1568.0 | 1563.3 | 1562.9 | 1575.1 |
| 10°   | 1555.1 | 1559.0 | 1565.7 | 1561.8 | 1575.5 | 1583.3 | 1577.4 | 1589.9 | 1585.6 | 1583.7 | 1597.0 |
| 12.5° | 1573.5 | 1576.2 | 1582.9 | 1579.8 | 1593.0 | 1598.9 | 1593.8 | 1605.9 | 1600.5 | 1598.9 | 1610.6 |
| 15°   | 1569.2 | 1571.9 | 1577.4 | 1574.7 | 1587.2 | 1592.7 | 1586.0 | 1599.3 | 1593.8 | 1590.7 | 1601.3 |
| 17.5° | 1541.8 | 1543.4 | 1547.3 | 1544.6 | 1557.9 | 1561.4 | 1554.0 | 1567.2 | 1562.2 | 1556.7 | 1566.9 |
| 20°   | 1501.6 | 1500.8 | 1503.2 | 1502.0 | 1512.9 | 1514.9 | 1510.2 | 1520.0 | 1514.1 | 1511.0 | 1516.8 |
| 22.5° | 1451.6 | 1450.8 | 1452.3 | 1449.2 | 1460.2 | 1461.3 | 1454.3 | 1466.0 | 1460.2 | 1454.3 | 1464.1 |
| 25°   | 1396.1 | 1391.8 | 1391.0 | 1392.2 | 1399.6 | 1400.8 | 1393.3 | 1401.9 | 1394.5 | 1389.8 | 1399.2 |
| 27.5° | 1327.7 | 1322.2 | 1321.0 | 1322.2 | 1329.6 | 1324.1 | 1317.9 | 1324.1 | 1316.7 | 1312.4 | 1318.3 |
| 30°   | 1243.2 | 1235.4 | 1231.9 | 1229.6 | 1237.4 | 1235.4 | 1221.0 | 1228.0 | 1216.3 | 1210.0 | 1214.3 |
| 32.5° | 1129.5 | 1125.2 | 1115.8 | 1110.4 | 1117.8 | 1102.9 | 1093.9 | 1093.9 | 1089.3 | 1078.7 | 1081.0 |
| 35°   | 971.6  | 965.0  | 956.4  | 951.7  | 952.9  | 932.9  | 918.1  | 921.2  | 905.6  | 902.8  | 904.0  |
| 37.5° | 771.9  | 761.0  | 757.8  | 748.1  | 750.4  | 732.8  | 712.5  | 712.9  | 704.7  | 696.1  | 693.3  |
| 40°   | 580.0  | 578.0  | 574.9  | 566.7  | 569.8  | 550.7  | 542.9  | 543.3  | 537.8  | 531.5  | 534.7  |
| 42.5° | 448.3  | 442.0  | 440.1  | 437.3  | 438.1  | 435.0  | 424.8  | 426.0  | 421.3  | 419.8  | 418.2  |
| 45°   | 364.3  | 357.6  | 352.9  | 355.3  | 355.3  | 351.8  | 347.8  | 350.2  | 347.8  | 344.7  | 346.3  |
| 47.5° | 300.2  | 293.9  | 291.6  | 291.2  | 293.9  | 291.6  | 287.7  | 288.4  | 288.0  | 286.9  | 286.1  |
| 50°   | 239.6  | 238.0  | 236.1  | 234.9  | 236.1  | 235.3  | 231.8  | 233.7  | 234.9  | 231.0  | 232.2  |
| 52.5° | 182.5  | 182.5  | 182.1  | 179.4  | 181.7  | 179.4  | 179.0  | 179.8  | 178.6  | 177.0  | 176.7  |
| 55°   | 133.7  | 132.5  | 130.5  | 130.1  | 130.9  | 130.1  | 129.4  | 129.8  | 130.5  | 126.6  | 126.6  |
| 57.5° | 91.5   | 90.7   | 89.5   | 89.5   | 91.1   | 89.1   | 87.9   | 89.5   | 87.9   | 86.4   | 86.4   |
| 60°   | 58.6   | 58.2   | 57.1   | 57.1   | 57.1   | 56.7   | 55.5   | 55.9   | 56.7   | 54.3   | 54.7   |
| 62.5° | 35.2   | 34.0   | 33.6   | 33.2   | 33.6   | 33.2   | 33.2   | 32.8   | 32.4   | 32.4   | 31.3   |
| 65°   | 19.2   | 18.4   | 17.6   | 18.0   | 18.0   | 17.6   | 17.6   | 17.6   | 16.8   | 16.4   | 16.0   |
| 67.5° | 9.8    | 9.0    | 9.0    | 8.6    | 8.6    | 8.6    | 8.6    | 8.2    | 8.2    | 8.2    | 7.8    |
| 70°   | 6.3    | 5.9    | 5.5    | 5.5    | 5.5    | 5.1    | 5.1    | 5.1    | 5.1    | 5.1    | 4.7    |
| 72.5° | 4.3    | 3.9    | 3.5    | 3.5    | 3.5    | 3.1    | 3.1    | 3.1    | 3.1    | 2.7    | 2.7    |
| 75°   | 3.1    | 2.7    | 2.3    | 2.3    | 2.3    | 2.0    | 2.0    | 2.0    | 2.0    | 2.0    | 2.0    |
| 77.5° | 2.0    | 1.6    | 1.6    | 1.6    | 1.6    | 1.2    | 1.2    | 1.2    | 1.2    | 1.2    | 0.8    |
| 80°   | 1.2    | 1.2    | 0.8    | 0.8    | 0.8    | 0.8    | 0.4    | 0.4    | 0.4    | 0.4    | 0.4    |
| 82.5° | 0.8    | 0.8    | 0.4    | 0.4    | 0.4    | 0.4    | 0.4    | 0.4    | 0.4    | 0.4    | 0.0    |
| 85°   | 0.4    | 0.4    | 0.4    | 0.4    | 0.4    | 0.4    | 0.4    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 0.4    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |





TEST NUMBER: P244149

CATALOG NUMBER: LSR8B30D010 EC8B309727 8LBSWOLI

**CANDELA DISTRIBUTION (continued):**

|       | 150°   | 155°   | 157.5° | 160°   | 165°   | 170°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1487.5 | 1487.5 | 1487.5 | 1487.5 | 1487.5 | 1487.5 | 1487.5 | 1487.5 |
| 2.5°  | 1535.2 | 1532.1 | 1534.0 | 1548.5 | 1542.2 | 1540.3 | 1523.9 | 1538.3 |
| 5°    | 1553.6 | 1551.2 | 1551.2 | 1567.6 | 1560.2 | 1558.6 | 1542.6 | 1555.1 |
| 7.5°  | 1570.8 | 1568.4 | 1568.8 | 1585.6 | 1579.8 | 1577.4 | 1561.4 | 1573.9 |
| 10°   | 1593.0 | 1591.5 | 1591.9 | 1607.9 | 1601.6 | 1599.3 | 1582.9 | 1595.8 |
| 12.5° | 1606.3 | 1604.0 | 1604.0 | 1621.2 | 1614.1 | 1610.6 | 1595.0 | 1607.5 |
| 15°   | 1596.2 | 1592.7 | 1592.7 | 1609.8 | 1602.0 | 1597.0 | 1583.3 | 1595.0 |
| 17.5° | 1561.4 | 1557.9 | 1557.9 | 1572.7 | 1566.9 | 1559.4 | 1545.4 | 1556.3 |
| 20°   | 1512.9 | 1508.6 | 1507.5 | 1524.6 | 1516.4 | 1509.8 | 1497.3 | 1507.8 |
| 22.5° | 1458.2 | 1456.3 | 1452.7 | 1469.9 | 1462.5 | 1455.5 | 1442.2 | 1450.4 |
| 25°   | 1392.5 | 1389.4 | 1385.9 | 1402.7 | 1395.3 | 1388.2 | 1377.7 | 1384.3 |
| 27.5° | 1310.9 | 1311.3 | 1309.3 | 1322.6 | 1315.2 | 1311.3 | 1298.4 | 1309.3 |
| 30°   | 1212.0 | 1207.7 | 1206.1 | 1221.8 | 1214.7 | 1209.6 | 1193.6 | 1204.2 |
| 32.5° | 1083.0 | 1076.8 | 1068.5 | 1086.1 | 1074.0 | 1069.7 | 1056.0 | 1071.3 |
| 35°   | 895.4  | 893.4  | 886.0  | 900.9  | 894.2  | 886.4  | 877.8  | 890.7  |
| 37.5° | 692.2  | 693.7  | 693.0  | 696.9  | 693.0  | 687.9  | 678.5  | 673.8  |
| 40°   | 528.4  | 524.5  | 521.4  | 528.4  | 520.2  | 520.2  | 514.7  | 520.6  |
| 42.5° | 414.3  | 412.7  | 416.6  | 418.2  | 413.5  | 412.7  | 411.9  | 411.5  |
| 45°   | 342.0  | 342.0  | 342.8  | 344.3  | 342.8  | 342.0  | 339.6  | 338.1  |
| 47.5° | 281.8  | 283.4  | 281.8  | 286.9  | 284.1  | 283.4  | 278.7  | 280.6  |
| 50°   | 228.2  | 226.3  | 228.2  | 229.8  | 230.2  | 227.9  | 225.5  | 226.7  |
| 52.5° | 177.0  | 173.9  | 173.1  | 175.5  | 173.9  | 173.9  | 172.4  | 172.0  |
| 55°   | 124.7  | 125.8  | 123.9  | 125.8  | 125.1  | 123.9  | 122.7  | 124.3  |
| 57.5° | 84.4   | 84.8   | 84.0   | 85.2   | 83.2   | 83.6   | 83.2   | 82.9   |
| 60°   | 54.7   | 53.2   | 53.2   | 54.3   | 52.4   | 52.4   | 52.0   | 52.0   |
| 62.5° | 31.3   | 30.9   | 30.9   | 30.5   | 30.1   | 30.1   | 30.1   | 29.3   |
| 65°   | 16.0   | 15.6   | 15.2   | 15.2   | 15.2   | 15.2   | 14.9   | 14.9   |
| 67.5° | 7.8    | 7.4    | 7.4    | 7.8    | 7.4    | 7.4    | 7.4    | 7.4    |
| 70°   | 4.7    | 4.7    | 4.3    | 4.7    | 4.3    | 4.3    | 4.3    | 4.3    |
| 72.5° | 2.7    | 2.7    | 2.7    | 2.7    | 2.7    | 2.7    | 2.7    | 2.7    |
| 75°   | 1.6    | 1.6    | 1.6    | 1.6    | 1.6    | 1.6    | 1.6    | 1.6    |
| 77.5° | 1.2    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    |
| 80°   | 0.4    | 0.4    | 0.4    | 0.4    | 0.4    | 0.4    | 0.4    | 0.4    |
| 82.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)