

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: P244106

Luminaire Tested: **LD8B20D010 ER8B20840 8LBSW0LI**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P244106  
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: LD8B20D010 ER8B20840 8LBSW0LI  
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT  
80 CRI 4000 CCT WITH SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2304.0 lumens  
Efficiency: N/A  
Efficacy: 108.2 lumens/watt  
Spacing Criteria (0/90/45): 1.12 / 1.2 / 1.11  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

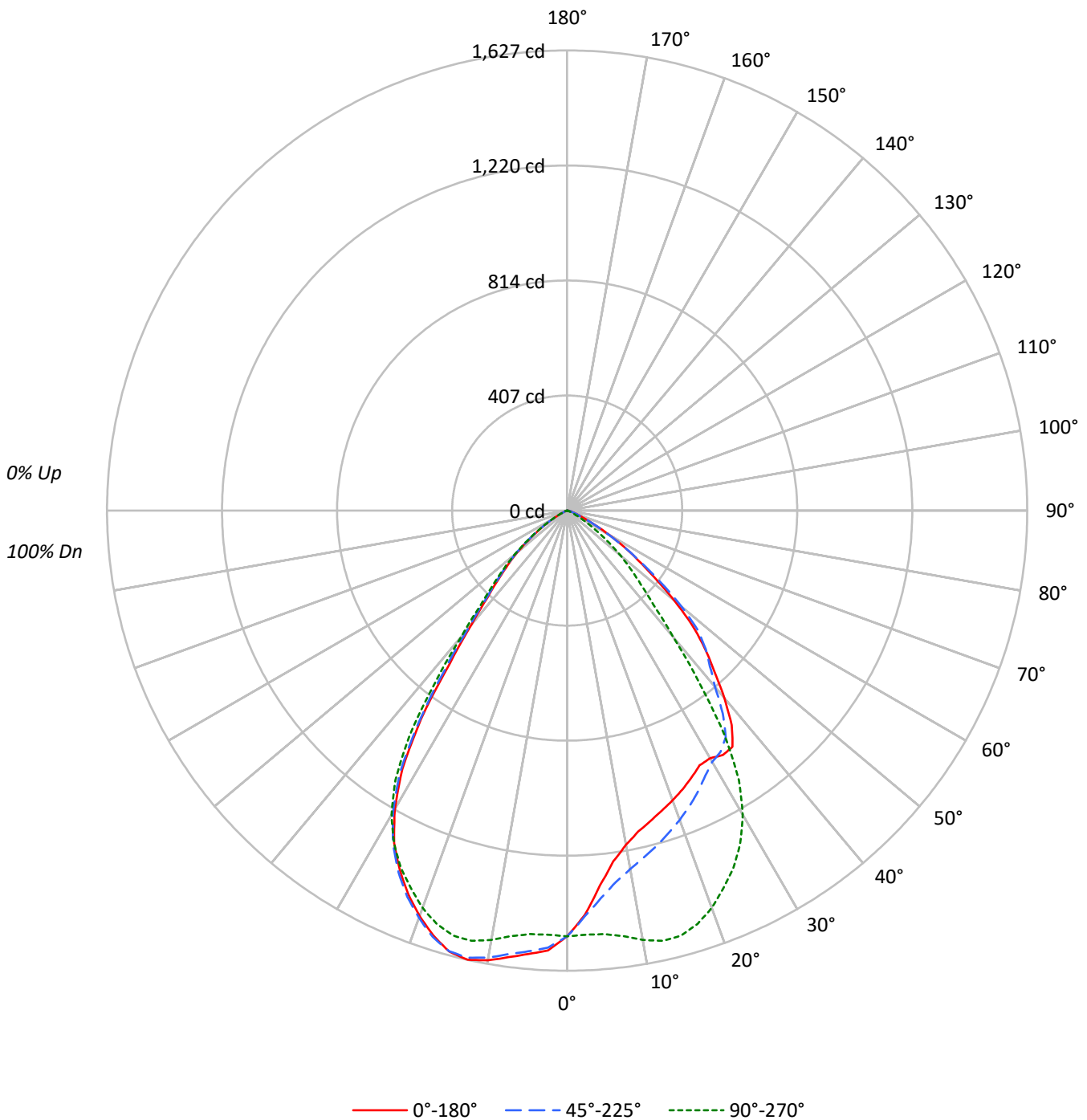
Input Watts (W): 21.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°  | 46415 | 46415 | 46415 |
| 5°  | 41181 | 46530 | 48709 |
| 10° | 37546 | 48255 | 50560 |
| 15° | 36285 | 49668 | 51522 |
| 20° | 35765 | 49056 | 50066 |
| 25° | 35416 | 47365 | 47661 |
| 30° | 35991 | 44202 | 43383 |
| 35° | 38363 | 36579 | 33929 |
| 40° | 34767 | 23416 | 21206 |
| 45° | 30007 | 16022 | 14919 |
| 50° | 23675 | 11686 | 11005 |
| 55° | 16435 | 7188  | 6763  |
| 60° | 10466 | 3633  | 3244  |
| 65° | 5224  | 1445  | 1094  |
| 70° | 2885  | 712   | 397   |
| 75° | 2073  | 524   | 191   |
| 80° | 1687  | 355   | 71    |
| 85° | 1804  | 283   | 0     |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 140.3  | 6.1       |
| 10°-20°   | 405.2  | 17.6      |
| 20°-30°   | 588.1  | 25.5      |
| 30°-40°   | 579.2  | 25.1      |
| 40°-50°   | 363.1  | 15.8      |
| 50°-60°   | 175.2  | 7.6       |
| 60°-70°   | 42.4   | 1.8       |
| 70°-80°   | 8.6    | 0.4       |
| 80°-90°   | 2.0    | 0.1       |
| 90°-100°  | 0.0    | 0.0       |
| 100°-110° | 0.0    | 0.0       |
| 110°-120° | 0.0    | 0.0       |
| 120°-130° | 0.0    | 0.0       |
| 130°-140° | 0.0    | 0.0       |
| 140°-150° | 0.0    | 0.0       |
| 150°-160° | 0.0    | 0.0       |
| 160°-170° | 0.0    | 0.0       |
| 170°-180° | 0.0    | 0.0       |
| 0°-30°    | 1133.6 | 49.2      |
| 0°-40°    | 1712.8 | 74.3      |
| 0°-60°    | 2251.1 | 97.7      |
| 0°-90°    | 2304.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 2304.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45°  | 90°  | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0°  | 1505 | 1505 | 1505 | 1505 | 1505 |      |
| 5°  | 1330 | 1375 | 1503 | 1564 | 1574 | 123  |
| 15° | 1137 | 1226 | 1556 | 1613 | 1614 | 321  |
| 25° | 1041 | 1095 | 1392 | 1411 | 1401 | 482  |
| 35° | 1019 | 978  | 972  | 916  | 901  | 617  |
| 45° | 688  | 693  | 367  | 352  | 342  | 526  |
| 55° | 306  | 316  | 134  | 132  | 126  | 281  |
| 65° | 72   | 71   | 20   | 17   | 15   | 82   |
| 75° | 17   | 15   | 4    | 2    | 2    | 20   |
| 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°    | 1505.2 | 1505.2 | 1505.2 | 1505.2 | 1505.2 | 1505.2 | 1505.2 | 1505.2 | 1505.2 | 1505.2 | 1505.2 |
| 2.5°  | 1430.8 | 1421.7 | 1404.7 | 1425.3 | 1425.3 | 1413.8 | 1436.7 | 1422.9 | 1434.0 | 1451.4 | 1435.9 |
| 5°    | 1330.4 | 1322.8 | 1308.6 | 1330.4 | 1333.1 | 1322.4 | 1350.1 | 1339.9 | 1356.1 | 1377.4 | 1375.4 |
| 7.5°  | 1250.9 | 1241.4 | 1228.3 | 1250.9 | 1255.2 | 1248.1 | 1274.6 | 1269.9 | 1291.2 | 1318.9 | 1323.6 |
| 10°   | 1199.1 | 1189.2 | 1177.7 | 1198.3 | 1201.4 | 1196.7 | 1223.6 | 1220.8 | 1241.8 | 1273.8 | 1286.5 |
| 12.5° | 1162.3 | 1154.0 | 1141.3 | 1163.1 | 1166.6 | 1159.9 | 1185.2 | 1184.0 | 1205.8 | 1239.4 | 1255.2 |
| 15°   | 1136.6 | 1126.7 | 1115.2 | 1133.8 | 1138.6 | 1131.0 | 1155.2 | 1152.8 | 1174.9 | 1208.2 | 1226.0 |
| 17.5° | 1112.5 | 1103.4 | 1091.5 | 1108.9 | 1113.6 | 1105.7 | 1129.5 | 1125.5 | 1144.5 | 1176.1 | 1194.3 |
| 20°   | 1089.9 | 1080.0 | 1069.3 | 1087.1 | 1089.9 | 1080.8 | 1104.5 | 1099.4 | 1116.4 | 1145.7 | 1163.5 |
| 22.5° | 1066.6 | 1056.3 | 1045.2 | 1062.6 | 1065.4 | 1056.3 | 1078.0 | 1072.1 | 1087.9 | 1114.4 | 1130.6 |
| 25°   | 1040.9 | 1031.4 | 1020.3 | 1036.5 | 1038.9 | 1029.0 | 1051.9 | 1044.4 | 1058.3 | 1081.6 | 1095.1 |
| 27.5° | 1015.2 | 1006.1 | 993.8  | 1010.4 | 1011.6 | 1002.1 | 1023.1 | 1012.8 | 1024.3 | 1045.6 | 1057.1 |
| 30°   | 1010.8 | 1000.5 | 987.9  | 1001.3 | 1001.7 | 989.5  | 1009.2 | 997.0  | 1003.3 | 1019.1 | 1025.8 |
| 32.5° | 1024.7 | 1014.4 | 1001.3 | 1012.4 | 1011.2 | 997.8  | 1016.8 | 1001.7 | 1003.7 | 1012.0 | 1010.4 |
| 35°   | 1019.1 | 1006.9 | 991.4  | 1003.3 | 1003.3 | 987.1  | 1006.1 | 988.3  | 986.3  | 987.5  | 977.6  |
| 37.5° | 956.2  | 946.8  | 932.1  | 943.6  | 942.4  | 930.1  | 944.8  | 930.1  | 923.4  | 920.7  | 902.9  |
| 40°   | 863.7  | 852.2  | 841.2  | 853.4  | 854.6  | 841.6  | 860.5  | 843.9  | 842.0  | 834.0  | 813.1  |
| 42.5° | 770.0  | 766.0  | 755.3  | 765.6  | 771.2  | 760.1  | 775.9  | 768.0  | 769.2  | 767.2  | 747.4  |
| 45°   | 688.1  | 681.4  | 673.5  | 685.3  | 688.9  | 683.4  | 699.2  | 694.4  | 699.2  | 709.1  | 692.9  |
| 47.5° | 599.9  | 593.2  | 584.5  | 597.2  | 603.5  | 593.2  | 606.7  | 605.1  | 612.2  | 629.2  | 627.6  |
| 50°   | 493.5  | 488.8  | 487.2  | 488.8  | 492.8  | 488.0  | 497.5  | 497.9  | 502.6  | 526.0  | 527.6  |
| 52.5° | 390.7  | 389.5  | 384.0  | 389.1  | 389.1  | 381.6  | 391.1  | 386.8  | 391.5  | 407.3  | 417.6  |
| 55°   | 305.7  | 304.5  | 301.0  | 305.7  | 300.6  | 297.8  | 300.6  | 296.2  | 292.6  | 304.9  | 315.6  |
| 57.5° | 238.1  | 234.1  | 229.8  | 231.7  | 231.3  | 225.4  | 228.6  | 223.4  | 220.7  | 225.0  | 234.5  |
| 60°   | 169.7  | 168.5  | 164.5  | 166.5  | 168.1  | 163.7  | 166.9  | 164.5  | 159.8  | 163.3  | 163.7  |
| 62.5° | 112.7  | 113.5  | 111.1  | 111.5  | 110.3  | 109.5  | 111.5  | 112.7  | 111.5  | 109.9  | 110.3  |
| 65°   | 71.6   | 71.2   | 70.8   | 71.2   | 72.0   | 70.4   | 71.6   | 72.4   | 71.2   | 71.2   | 70.8   |
| 67.5° | 47.5   | 46.3   | 45.1   | 45.9   | 46.7   | 45.5   | 46.7   | 46.3   | 46.7   | 46.3   | 45.1   |
| 70°   | 32.0   | 31.6   | 31.2   | 31.6   | 31.6   | 30.8   | 31.6   | 31.2   | 31.6   | 31.2   | 30.1   |
| 72.5° | 23.3   | 23.3   | 22.9   | 23.3   | 23.3   | 22.5   | 22.9   | 22.1   | 22.5   | 22.1   | 21.4   |
| 75°   | 17.4   | 17.4   | 17.0   | 17.4   | 17.0   | 16.6   | 17.0   | 16.6   | 15.8   | 15.8   | 15.0   |
| 77.5° | 12.7   | 12.7   | 12.7   | 12.7   | 12.7   | 12.3   | 12.3   | 11.9   | 11.5   | 11.1   | 11.1   |
| 80°   | 9.5    | 9.1    | 9.1    | 9.1    | 9.1    | 8.7    | 9.1    | 8.7    | 8.3    | 7.9    | 7.5    |
| 82.5° | 6.7    | 7.1    | 6.7    | 6.7    | 6.7    | 6.3    | 6.7    | 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    | 4.4    | 4.4    | 4.0    |
| 87.5° | 2.8    | 2.8    | 2.8    | 3.2    | 2.8    | 2.8    | 2.8    | 2.4    | 2.4    | 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°    | 1505.2 | 1505.2 | 1505.2 | 1505.2 | 1505.2 | 1505.2 | 1505.2 | 1505.2 | 1505.2 | 1505.2 | 1505.2 |
| 2.5°  | 1456.5 | 1458.5 | 1454.1 | 1460.9 | 1487.0 | 1466.0 | 1474.7 | 1477.5 | 1497.2 | 1500.8 | 1498.4 |
| 5°    | 1401.1 | 1409.8 | 1415.4 | 1430.4 | 1459.3 | 1444.3 | 1459.7 | 1469.6 | 1494.9 | 1503.2 | 1505.2 |
| 7.5°  | 1357.6 | 1375.8 | 1389.3 | 1413.8 | 1447.8 | 1436.3 | 1459.7 | 1475.9 | 1506.7 | 1517.4 | 1522.6 |
| 10°   | 1325.2 | 1352.9 | 1376.2 | 1409.8 | 1448.2 | 1440.7 | 1471.1 | 1494.1 | 1528.5 | 1541.1 | 1547.5 |
| 12.5° | 1300.7 | 1334.3 | 1365.6 | 1408.3 | 1449.8 | 1446.2 | 1483.0 | 1509.1 | 1545.5 | 1558.1 | 1565.7 |
| 15°   | 1273.8 | 1312.6 | 1348.9 | 1396.8 | 1441.5 | 1440.7 | 1480.2 | 1507.9 | 1545.1 | 1555.8 | 1562.9 |
| 17.5° | 1241.8 | 1283.3 | 1323.2 | 1375.0 | 1419.3 | 1420.1 | 1460.1 | 1487.4 | 1523.7 | 1532.4 | 1537.2 |
| 20°   | 1209.3 | 1250.5 | 1290.4 | 1343.8 | 1387.3 | 1388.5 | 1427.6 | 1453.0 | 1487.8 | 1494.9 | 1496.1 |
| 22.5° | 1174.9 | 1213.3 | 1253.2 | 1306.2 | 1348.2 | 1348.9 | 1387.7 | 1411.4 | 1441.1 | 1444.6 | 1447.8 |
| 25°   | 1135.8 | 1173.4 | 1210.9 | 1263.5 | 1303.5 | 1305.8 | 1341.0 | 1362.0 | 1389.3 | 1392.1 | 1393.2 |
| 27.5° | 1095.1 | 1125.9 | 1161.9 | 1207.0 | 1247.3 | 1245.7 | 1278.9 | 1302.7 | 1327.2 | 1325.6 | 1325.2 |
| 30°   | 1053.9 | 1079.6 | 1101.8 | 1145.3 | 1174.9 | 1176.1 | 1207.4 | 1218.8 | 1244.5 | 1241.4 | 1241.0 |
| 32.5° | 1025.1 | 1031.8 | 1037.7 | 1059.9 | 1087.9 | 1078.0 | 1099.4 | 1113.6 | 1131.4 | 1130.3 | 1130.6 |
| 35°   | 972.1  | 959.8  | 942.0  | 945.2  | 962.2  | 946.8  | 958.2  | 957.8  | 976.0  | 971.7  | 976.8  |
| 37.5° | 881.5  | 846.7  | 807.2  | 784.6  | 787.8  | 768.4  | 764.4  | 773.9  | 780.3  | 768.0  | 772.4  |
| 40°   | 785.0  | 733.6  | 671.9  | 620.5  | 617.7  | 593.6  | 589.2  | 579.8  | 592.0  | 581.7  | 584.9  |
| 42.5° | 713.8  | 645.8  | 564.7  | 502.2  | 488.8  | 468.6  | 456.8  | 455.2  | 458.7  | 451.6  | 449.6  |
| 45°   | 659.2  | 586.9  | 493.9  | 422.4  | 407.3  | 385.6  | 373.7  | 369.4  | 369.8  | 367.4  | 365.4  |
| 47.5° | 595.2  | 522.4  | 428.3  | 355.1  | 338.1  | 317.6  | 305.7  | 302.9  | 304.5  | 301.3  | 299.0  |
| 50°   | 506.6  | 441.3  | 355.5  | 288.7  | 273.7  | 258.6  | 249.1  | 246.4  | 246.0  | 243.6  | 242.0  |
| 52.5° | 411.3  | 357.1  | 282.8  | 227.0  | 213.6  | 198.9  | 192.2  | 188.6  | 189.0  | 186.7  | 184.3  |
| 55°   | 318.4  | 284.7  | 219.1  | 171.6  | 159.4  | 147.9  | 141.6  | 137.2  | 136.0  | 133.7  | 132.5  |
| 57.5° | 236.9  | 214.3  | 164.1  | 123.8  | 116.7  | 105.6  | 99.3   | 94.1   | 93.3   | 92.1   | 91.7   |
| 60°   | 166.1  | 149.9  | 115.5  | 88.2   | 79.9   | 73.2   | 66.8   | 61.7   | 59.3   | 58.9   | 57.7   |
| 62.5° | 107.6  | 97.7   | 75.9   | 58.9   | 52.6   | 47.9   | 41.5   | 38.0   | 36.4   | 34.8   | 35.2   |
| 65°   | 66.8   | 59.3   | 47.5   | 38.0   | 34.4   | 30.8   | 26.1   | 22.9   | 21.4   | 19.8   | 20.2   |
| 67.5° | 41.5   | 37.2   | 30.1   | 24.5   | 22.1   | 19.4   | 15.8   | 13.4   | 12.3   | 11.1   | 10.3   |
| 70°   | 28.1   | 24.1   | 20.6   | 17.4   | 15.8   | 13.8   | 11.5   | 9.5    | 8.7    | 7.9    | 7.1    |
| 72.5° | 19.8   | 17.8   | 15.0   | 13.1   | 11.9   | 10.3   | 8.7    | 7.5    | 6.7    | 5.9    | 5.1    |
| 75°   | 14.2   | 12.7   | 11.1   | 9.5    | 8.7    | 7.9    | 6.7    | 5.9    | 5.1    | 4.4    | 3.6    |
| 77.5° | 10.3   | 9.1    | 7.9    | 7.1    | 6.7    | 5.5    | 4.7    | 4.4    | 4.0    | 3.2    | 2.4    |
| 80°   | 7.1    | 6.3    | 5.1    | 4.7    | 4.7    | 4.0    | 3.6    | 3.2    | 2.8    | 2.0    | 1.6    |
| 82.5° | 4.7    | 4.4    | 4.0    | 3.6    | 3.2    | 2.8    | 2.8    | 2.0    | 1.6    | 1.2    | 0.8    |
| 85°   | 3.6    | 3.2    | 2.8    | 2.4    | 2.4    | 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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CATALOG NUMBER: LD8B20D010 ER8B20840 8LBSWOLI

**CANDELA DISTRIBUTION (continued):**

|       | 100°   | 105°   | 110°   | 112.5° | 115°   | 120°   | 125°   | 130°   | 135°   | 140°   | 145°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1505.2 | 1505.2 | 1505.2 | 1505.2 | 1505.2 | 1505.2 | 1505.2 | 1505.2 | 1505.2 | 1505.2 | 1505.2 |
| 2.5°  | 1518.6 | 1519.8 | 1526.5 | 1521.4 | 1534.4 | 1543.9 | 1539.2 | 1549.8 | 1546.3 | 1545.5 | 1557.8 |
| 5°    | 1528.9 | 1531.7 | 1540.7 | 1536.0 | 1550.2 | 1560.5 | 1555.8 | 1567.6 | 1564.1 | 1563.3 | 1575.9 |
| 7.5°  | 1548.7 | 1551.4 | 1559.3 | 1555.4 | 1570.4 | 1579.5 | 1573.6 | 1586.6 | 1581.9 | 1581.5 | 1593.7 |
| 10°   | 1573.6 | 1577.5 | 1584.3 | 1580.3 | 1594.1 | 1602.0 | 1596.1 | 1608.8 | 1604.4 | 1602.4 | 1615.9 |
| 12.5° | 1592.2 | 1594.9 | 1601.7 | 1598.5 | 1611.9 | 1617.9 | 1612.7 | 1625.0 | 1619.4 | 1617.9 | 1629.7 |
| 15°   | 1587.8 | 1590.6 | 1596.1 | 1593.3 | 1606.0 | 1611.5 | 1604.8 | 1618.3 | 1612.7 | 1609.6 | 1620.2 |
| 17.5° | 1560.1 | 1561.7 | 1565.7 | 1562.9 | 1576.3 | 1579.9 | 1572.4 | 1585.8 | 1580.7 | 1575.2 | 1585.4 |
| 20°   | 1519.4 | 1518.6 | 1521.0 | 1519.8 | 1530.9 | 1532.8 | 1528.1 | 1538.0 | 1532.0 | 1528.9 | 1534.8 |
| 22.5° | 1468.8 | 1468.0 | 1469.6 | 1466.4 | 1477.5 | 1478.7 | 1471.5 | 1483.4 | 1477.5 | 1471.5 | 1481.4 |
| 25°   | 1412.6 | 1408.3 | 1407.5 | 1408.7 | 1416.2 | 1417.4 | 1409.8 | 1418.5 | 1411.0 | 1406.3 | 1415.8 |
| 27.5° | 1343.4 | 1337.9 | 1336.7 | 1337.9 | 1345.4 | 1339.9 | 1333.5 | 1339.9 | 1332.3 | 1328.0 | 1333.9 |
| 30°   | 1258.0 | 1250.1 | 1246.5 | 1244.1 | 1252.1 | 1250.1 | 1235.4 | 1242.6 | 1230.7 | 1224.4 | 1228.7 |
| 32.5° | 1142.9 | 1138.6 | 1129.1 | 1123.5 | 1131.0 | 1116.0 | 1106.9 | 1106.9 | 1102.2 | 1091.5 | 1093.9 |
| 35°   | 983.1  | 976.4  | 967.7  | 963.0  | 964.2  | 944.0  | 929.0  | 932.1  | 916.3  | 913.5  | 914.7  |
| 37.5° | 781.1  | 770.0  | 766.8  | 756.9  | 759.3  | 741.5  | 720.9  | 721.3  | 713.0  | 704.3  | 701.6  |
| 40°   | 586.9  | 584.9  | 581.7  | 573.4  | 576.6  | 557.2  | 549.3  | 549.7  | 544.2  | 537.8  | 541.0  |
| 42.5° | 453.6  | 447.3  | 445.3  | 442.5  | 443.3  | 440.2  | 429.9  | 431.1  | 426.3  | 424.7  | 423.2  |
| 45°   | 368.6  | 361.9  | 357.1  | 359.5  | 359.5  | 355.9  | 352.0  | 354.3  | 352.0  | 348.8  | 350.4  |
| 47.5° | 303.7  | 297.4  | 295.0  | 294.6  | 297.4  | 295.0  | 291.1  | 291.9  | 291.5  | 290.3  | 289.5  |
| 50°   | 242.4  | 240.8  | 238.9  | 237.7  | 238.9  | 238.1  | 234.5  | 236.5  | 237.7  | 233.7  | 234.9  |
| 52.5° | 184.7  | 184.7  | 184.3  | 181.5  | 183.9  | 181.5  | 181.1  | 181.9  | 180.7  | 179.1  | 178.8  |
| 55°   | 135.3  | 134.1  | 132.1  | 131.7  | 132.5  | 131.7  | 130.9  | 131.3  | 132.1  | 128.1  | 128.1  |
| 57.5° | 92.5   | 91.7   | 90.6   | 90.6   | 92.1   | 90.2   | 89.0   | 90.6   | 89.0   | 87.4   | 87.4   |
| 60°   | 59.3   | 58.9   | 57.7   | 57.7   | 57.7   | 57.3   | 56.2   | 56.6   | 57.3   | 55.0   | 55.4   |
| 62.5° | 35.6   | 34.4   | 34.0   | 33.6   | 34.0   | 33.6   | 33.6   | 33.2   | 32.8   | 32.8   | 31.6   |
| 65°   | 19.4   | 18.6   | 17.8   | 18.2   | 18.2   | 17.8   | 17.8   | 17.8   | 17.0   | 16.6   | 16.2   |
| 67.5° | 9.9    | 9.1    | 9.1    | 8.7    | 8.7    | 8.7    | 8.7    | 8.3    | 8.3    | 8.3    | 7.9    |
| 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° | 4.4    | 4.0    | 3.6    | 3.6    | 3.6    | 3.2    | 3.2    | 3.2    | 3.2    | 2.8    | 2.8    |
| 75°   | 3.2    | 2.8    | 2.4    | 2.4    | 2.4    | 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: P244106

CATALOG NUMBER: LD8B20D010 ER8B20840 8LBSW01

**CANDELA DISTRIBUTION (continued):**

|       | 150°   | 155°   | 157.5° | 160°   | 165°   | 170°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1505.2 | 1505.2 | 1505.2 | 1505.2 | 1505.2 | 1505.2 | 1505.2 | 1505.2 |
| 2.5°  | 1553.4 | 1550.2 | 1552.2 | 1566.8 | 1560.5 | 1558.5 | 1541.9 | 1556.6 |
| 5°    | 1572.0 | 1569.6 | 1569.6 | 1586.2 | 1578.7 | 1577.1 | 1560.9 | 1573.6 |
| 7.5°  | 1589.4 | 1587.0 | 1587.4 | 1604.4 | 1598.5 | 1596.1 | 1579.9 | 1592.6 |
| 10°   | 1611.9 | 1610.4 | 1610.7 | 1627.0 | 1620.6 | 1618.3 | 1601.7 | 1614.7 |
| 12.5° | 1625.4 | 1623.0 | 1623.0 | 1640.4 | 1633.3 | 1629.7 | 1613.9 | 1626.6 |
| 15°   | 1615.1 | 1611.5 | 1611.5 | 1628.9 | 1621.0 | 1615.9 | 1602.0 | 1613.9 |
| 17.5° | 1579.9 | 1576.3 | 1576.3 | 1591.4 | 1585.4 | 1577.9 | 1563.7 | 1574.8 |
| 20°   | 1530.9 | 1526.5 | 1525.3 | 1542.7 | 1534.4 | 1527.7 | 1515.0 | 1525.7 |
| 22.5° | 1475.5 | 1473.5 | 1470.0 | 1487.4 | 1479.8 | 1472.7 | 1459.3 | 1467.6 |
| 25°   | 1409.1 | 1405.9 | 1402.3 | 1419.3 | 1411.8 | 1404.7 | 1394.0 | 1400.8 |
| 27.5° | 1326.4 | 1326.8 | 1324.8 | 1338.3 | 1330.8 | 1326.8 | 1313.7 | 1324.8 |
| 30°   | 1226.4 | 1222.0 | 1220.4 | 1236.2 | 1229.1 | 1224.0 | 1207.8 | 1218.4 |
| 32.5° | 1095.8 | 1089.5 | 1081.2 | 1099.0 | 1086.7 | 1082.4 | 1068.6 | 1084.0 |
| 35°   | 906.0  | 904.0  | 896.5  | 911.6  | 904.8  | 896.9  | 888.2  | 901.3  |
| 37.5° | 700.4  | 702.0  | 701.2  | 705.1  | 701.2  | 696.0  | 686.5  | 681.8  |
| 40°   | 534.7  | 530.7  | 527.6  | 534.7  | 526.4  | 526.4  | 520.8  | 526.8  |
| 42.5° | 419.2  | 417.6  | 421.6  | 423.2  | 418.4  | 417.6  | 416.8  | 416.4  |
| 45°   | 346.0  | 346.0  | 346.8  | 348.4  | 346.8  | 346.0  | 343.7  | 342.1  |
| 47.5° | 285.1  | 286.7  | 285.1  | 290.3  | 287.5  | 286.7  | 282.0  | 283.9  |
| 50°   | 231.0  | 229.0  | 231.0  | 232.5  | 232.9  | 230.6  | 228.2  | 229.4  |
| 52.5° | 179.1  | 176.0  | 175.2  | 177.6  | 176.0  | 176.0  | 174.4  | 174.0  |
| 55°   | 126.2  | 127.3  | 125.4  | 127.3  | 126.6  | 125.4  | 124.2  | 125.8  |
| 57.5° | 85.4   | 85.8   | 85.0   | 86.2   | 84.2   | 84.6   | 84.2   | 83.8   |
| 60°   | 55.4   | 53.8   | 53.8   | 55.0   | 53.0   | 53.0   | 52.6   | 52.6   |
| 62.5° | 31.6   | 31.2   | 31.2   | 30.8   | 30.5   | 30.5   | 30.5   | 29.7   |
| 65°   | 16.2   | 15.8   | 15.4   | 15.4   | 15.4   | 15.4   | 15.0   | 15.0   |
| 67.5° | 7.9    | 7.5    | 7.5    | 7.9    | 7.5    | 7.5    | 7.5    | 7.5    |
| 70°   | 4.7    | 4.7    | 4.4    | 4.7    | 4.4    | 4.4    | 4.4    | 4.4    |
| 72.5° | 2.8    | 2.8    | 2.8    | 2.8    | 2.8    | 2.8    | 2.8    | 2.8    |
| 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)