

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: P246099

Luminaire Tested: **LD8B30D010 ER8B309730 8LBDW0GPH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P246099  
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: LD8B30D010 ER8B309730 8LBDW0GPH  
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT  
97 CRI 3000 CCT WITH GRAPHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2258.0 lumens  
Efficiency: N/A  
Efficacy: 83.3 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.26 / 1.18  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

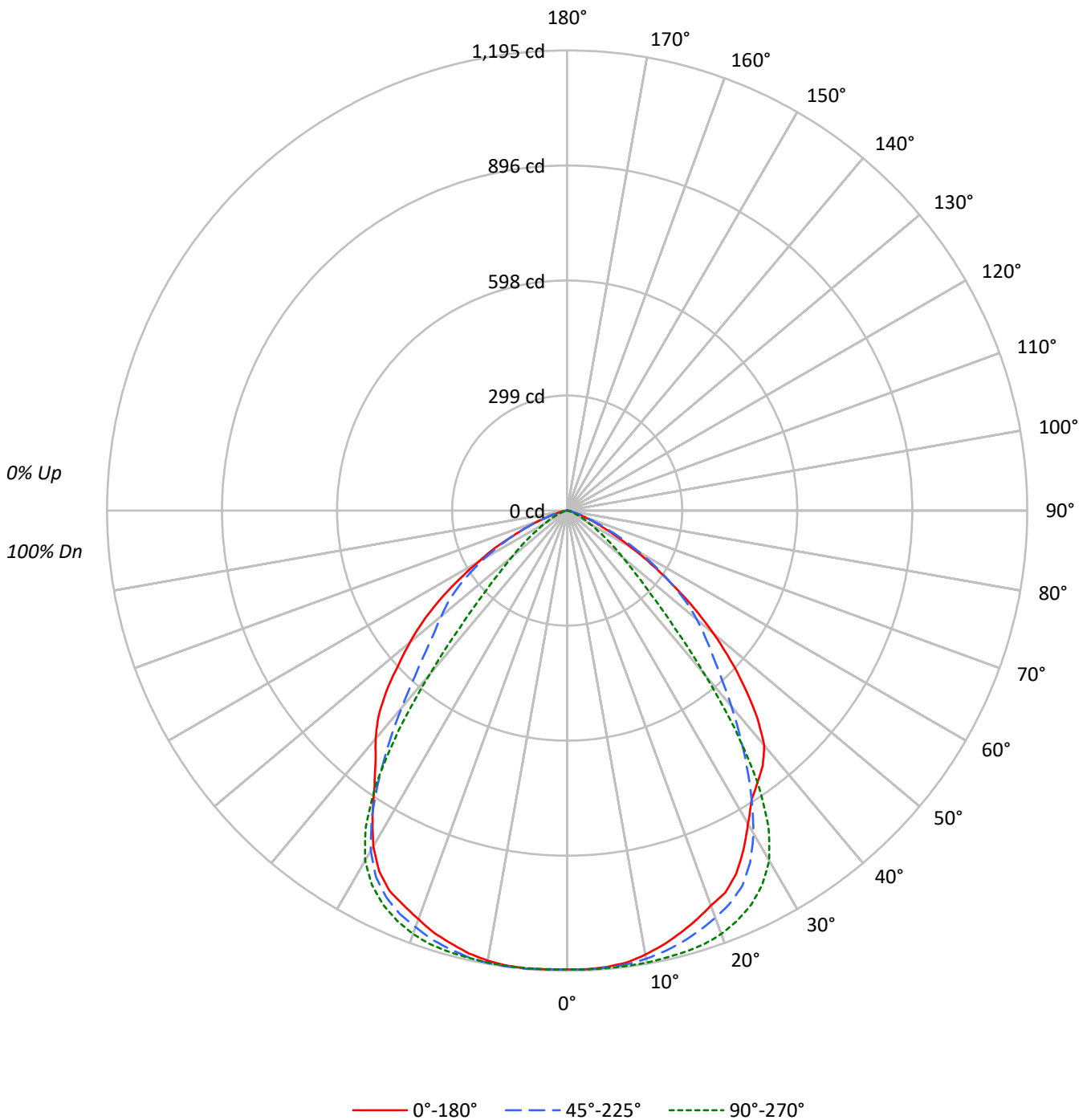
Input Watts (W): 27.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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  | 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°  | 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°    | 113.7  | 5.0       |
| 10°-20°   | 330.2  | 14.6      |
| 20°-30°   | 501.2  | 22.2      |
| 30°-40°   | 526.4  | 23.3      |
| 40°-50°   | 394.7  | 17.5      |
| 50°-60°   | 253.2  | 11.2      |
| 60°-70°   | 108.3  | 4.8       |
| 70°-80°   | 25.6   | 1.1       |
| 80°-90°   | 4.8    | 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°    | 945.1  | 41.9      |
| 0°-40°    | 1471.5 | 65.2      |
| 0°-60°    | 2119.3 | 93.9      |
| 0°-90°    | 2258.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 2258.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45°  | 90°  | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0°  | 1191 | 1191 | 1191 | 1191 | 1191 |      |
| 5°  | 1189 | 1191 | 1193 | 1195 | 1194 | 113  |
| 15° | 1136 | 1159 | 1186 | 1179 | 1164 | 320  |
| 25° | 1039 | 1076 | 1130 | 1110 | 1090 | 475  |
| 35° | 862  | 814  | 863  | 852  | 872  | 541  |
| 45° | 655  | 535  | 308  | 520  | 664  | 501  |
| 55° | 331  | 331  | 114  | 345  | 404  | 300  |
| 65° | 100  | 118  | 36   | 152  | 154  | 106  |
| 75° | 15   | 18   | 5    | 31   | 30   | 22   |
| 85° | 5    | 3    | 3    | 5    | 7    | 5    |
| 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°    | 1191.4 | 1191.4 | 1191.4 | 1191.4 | 1191.4 | 1191.4 | 1191.4 | 1191.4 | 1191.4 | 1191.4 | 1191.4 |
| 2.5°  | 1192.0 | 1193.3 | 1192.6 | 1192.6 | 1192.0 | 1192.6 | 1192.6 | 1193.9 | 1193.9 | 1192.6 | 1192.0 |
| 5°    | 1189.4 | 1190.7 | 1190.7 | 1189.4 | 1189.4 | 1192.6 | 1190.7 | 1192.0 | 1192.0 | 1191.4 | 1191.4 |
| 7.5°  | 1183.7 | 1183.7 | 1186.2 | 1184.3 | 1184.3 | 1186.2 | 1185.6 | 1186.9 | 1188.2 | 1188.8 | 1188.8 |
| 10°   | 1170.9 | 1172.2 | 1172.8 | 1172.8 | 1173.5 | 1175.4 | 1176.7 | 1179.2 | 1180.5 | 1181.8 | 1182.4 |
| 12.5° | 1154.9 | 1156.8 | 1157.5 | 1156.8 | 1158.8 | 1161.3 | 1164.5 | 1167.7 | 1169.6 | 1172.2 | 1174.1 |
| 15°   | 1135.7 | 1135.7 | 1137.0 | 1138.9 | 1140.2 | 1144.0 | 1147.2 | 1151.1 | 1156.2 | 1159.4 | 1162.6 |
| 17.5° | 1114.6 | 1115.9 | 1117.8 | 1117.8 | 1120.4 | 1126.8 | 1128.7 | 1134.5 | 1140.2 | 1143.4 | 1149.8 |
| 20°   | 1091.6 | 1092.9 | 1094.8 | 1096.1 | 1099.3 | 1104.4 | 1108.2 | 1113.3 | 1119.7 | 1125.5 | 1131.9 |
| 22.5° | 1073.7 | 1071.1 | 1072.4 | 1073.7 | 1076.9 | 1081.4 | 1085.9 | 1092.2 | 1098.6 | 1104.4 | 1110.8 |
| 25°   | 1039.2 | 1039.8 | 1041.7 | 1043.0 | 1046.8 | 1050.7 | 1055.8 | 1063.5 | 1069.2 | 1075.6 | 1082.6 |
| 27.5° | 992.5  | 993.1  | 996.3  | 996.3  | 999.5  | 1005.9 | 1009.1 | 1015.5 | 1023.2 | 1029.6 | 1037.9 |
| 30°   | 939.4  | 940.7  | 940.7  | 943.2  | 945.2  | 948.4  | 951.6  | 958.0  | 961.8  | 967.5  | 979.1  |
| 32.5° | 890.8  | 892.1  | 891.4  | 890.8  | 888.9  | 888.2  | 887.6  | 888.9  | 890.2  | 892.1  | 896.6  |
| 35°   | 862.0  | 858.8  | 856.3  | 851.8  | 846.7  | 840.3  | 834.5  | 826.9  | 819.8  | 814.1  | 807.7  |
| 37.5° | 834.5  | 833.9  | 830.1  | 823.7  | 813.4  | 801.9  | 788.5  | 771.9  | 755.2  | 737.3  | 720.1  |
| 40°   | 796.2  | 794.2  | 791.0  | 782.1  | 770.6  | 756.5  | 738.6  | 718.1  | 691.3  | 663.8  | 635.7  |
| 42.5° | 730.9  | 731.6  | 727.7  | 720.7  | 709.8  | 696.4  | 677.9  | 655.5  | 626.7  | 594.1  | 557.6  |
| 45°   | 654.8  | 654.8  | 653.6  | 647.8  | 640.1  | 629.3  | 615.2  | 596.6  | 568.5  | 535.2  | 496.2  |
| 47.5° | 575.5  | 576.2  | 574.3  | 573.0  | 569.8  | 562.8  | 552.5  | 538.5  | 518.6  | 486.6  | 447.6  |
| 50°   | 495.0  | 495.0  | 498.2  | 497.5  | 497.5  | 495.0  | 490.5  | 482.2  | 464.9  | 439.3  | 402.9  |
| 52.5° | 414.4  | 415.7  | 417.6  | 420.1  | 423.3  | 428.5  | 423.3  | 419.5  | 408.6  | 388.8  | 357.5  |
| 55°   | 331.3  | 332.5  | 335.7  | 340.2  | 344.1  | 349.2  | 350.4  | 350.4  | 344.7  | 331.3  | 307.6  |
| 57.5° | 260.3  | 258.4  | 260.9  | 264.8  | 269.9  | 275.0  | 278.8  | 283.3  | 282.7  | 273.7  | 254.5  |
| 60°   | 195.7  | 196.3  | 198.2  | 202.1  | 205.9  | 210.4  | 215.5  | 219.3  | 221.3  | 216.8  | 204.6  |
| 62.5° | 142.6  | 142.6  | 145.2  | 149.0  | 150.9  | 157.3  | 160.5  | 162.4  | 164.3  | 163.7  | 156.0  |
| 65°   | 99.8   | 101.0  | 102.3  | 104.2  | 106.2  | 110.0  | 111.9  | 115.7  | 117.0  | 117.7  | 111.9  |
| 67.5° | 70.3   | 68.4   | 69.7   | 71.0   | 72.9   | 75.5   | 79.3   | 79.3   | 81.2   | 81.2   | 77.4   |
| 70°   | 44.8   | 44.8   | 45.4   | 47.3   | 48.6   | 49.2   | 50.5   | 51.8   | 53.7   | 53.1   | 53.1   |
| 72.5° | 30.1   | 29.4   | 30.1   | 30.7   | 31.3   | 33.3   | 33.3   | 33.9   | 35.2   | 35.8   | 33.3   |
| 75°   | 15.3   | 16.0   | 17.3   | 16.6   | 18.5   | 17.3   | 17.9   | 19.8   | 19.2   | 17.9   | 17.9   |
| 77.5° | 12.8   | 12.8   | 12.8   | 12.2   | 13.4   | 13.4   | 12.8   | 14.1   | 13.4   | 13.4   | 12.8   |
| 80°   | 9.0    | 9.6    | 9.0    | 8.3    | 9.0    | 8.3    | 8.3    | 8.3    | 8.3    | 8.3    | 7.7    |
| 82.5° | 7.0    | 5.8    | 6.4    | 5.8    | 6.4    | 6.4    | 5.8    | 5.1    | 5.1    | 5.8    | 5.1    |
| 85°   | 5.1    | 3.8    | 4.5    | 4.5    | 3.8    | 3.8    | 3.8    | 3.8    | 3.8    | 3.2    | 3.2    |
| 87.5° | 3.2    | 1.9    | 1.9    | 1.9    | 2.6    | 2.6    | 2.6    | 1.9    | 2.6    | 2.6    | 1.3    |
| 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°    | 1191.4 | 1191.4 | 1191.4 | 1191.4 | 1191.4 | 1191.4 | 1191.4 | 1191.4 | 1191.4 | 1191.4 | 1191.4 |
| 2.5°  | 1193.3 | 1192.6 | 1193.9 | 1193.3 | 1193.3 | 1192.6 | 1193.3 | 1192.6 | 1193.9 | 1191.4 | 1192.0 |
| 5°    | 1193.3 | 1192.0 | 1192.6 | 1193.3 | 1193.9 | 1192.6 | 1192.6 | 1192.6 | 1193.9 | 1192.6 | 1193.3 |
| 7.5°  | 1190.7 | 1190.1 | 1192.0 | 1193.3 | 1192.6 | 1192.0 | 1193.3 | 1192.6 | 1193.9 | 1193.3 | 1194.6 |
| 10°   | 1185.6 | 1186.2 | 1187.5 | 1189.4 | 1190.1 | 1190.7 | 1192.0 | 1192.0 | 1193.9 | 1191.4 | 1192.6 |
| 12.5° | 1177.9 | 1180.5 | 1183.7 | 1185.0 | 1187.5 | 1187.5 | 1188.8 | 1189.4 | 1190.7 | 1190.1 | 1192.0 |
| 15°   | 1168.3 | 1171.5 | 1175.4 | 1178.6 | 1181.8 | 1183.7 | 1185.6 | 1186.2 | 1188.2 | 1186.2 | 1186.9 |
| 17.5° | 1156.8 | 1160.7 | 1166.4 | 1170.3 | 1175.4 | 1177.3 | 1179.8 | 1181.1 | 1183.1 | 1181.8 | 1182.4 |
| 20°   | 1140.8 | 1145.3 | 1151.7 | 1157.5 | 1160.7 | 1165.1 | 1168.3 | 1170.3 | 1171.5 | 1170.3 | 1170.9 |
| 22.5° | 1118.5 | 1124.9 | 1133.2 | 1137.6 | 1144.0 | 1147.9 | 1148.5 | 1153.0 | 1156.2 | 1153.0 | 1154.3 |
| 25°   | 1092.2 | 1098.6 | 1105.0 | 1114.6 | 1120.4 | 1124.9 | 1129.3 | 1130.0 | 1133.2 | 1132.5 | 1131.9 |
| 27.5° | 1048.8 | 1057.1 | 1067.9 | 1075.6 | 1083.3 | 1090.3 | 1095.4 | 1096.7 | 1099.9 | 1098.6 | 1099.3 |
| 30°   | 989.3  | 998.2  | 1008.5 | 1020.6 | 1031.5 | 1038.5 | 1044.9 | 1049.4 | 1052.6 | 1050.7 | 1050.0 |
| 32.5° | 904.9  | 913.8  | 924.7  | 936.8  | 949.6  | 959.9  | 967.5  | 973.3  | 977.1  | 975.9  | 972.7  |
| 35°   | 808.3  | 810.9  | 817.9  | 827.5  | 838.4  | 849.2  | 856.3  | 862.7  | 867.1  | 868.4  | 868.4  |
| 37.5° | 709.2  | 700.9  | 695.8  | 695.8  | 702.2  | 706.6  | 713.0  | 716.9  | 723.9  | 726.5  | 728.4  |
| 40°   | 613.3  | 594.1  | 576.2  | 562.8  | 553.8  | 553.2  | 553.2  | 555.1  | 561.5  | 569.8  | 577.5  |
| 42.5° | 527.6  | 496.9  | 469.4  | 444.4  | 426.5  | 416.3  | 411.8  | 412.5  | 417.6  | 425.3  | 438.0  |
| 45°   | 459.2  | 420.8  | 386.3  | 356.2  | 331.9  | 315.9  | 308.2  | 307.6  | 311.4  | 320.4  | 334.5  |
| 47.5° | 406.1  | 365.1  | 326.1  | 291.6  | 265.4  | 248.1  | 239.2  | 236.6  | 239.2  | 247.5  | 264.1  |
| 50°   | 362.0  | 319.8  | 279.5  | 243.6  | 215.5  | 197.6  | 189.3  | 186.1  | 189.3  | 196.3  | 212.9  |
| 52.5° | 321.0  | 277.5  | 239.8  | 205.3  | 175.2  | 159.9  | 150.9  | 149.0  | 150.9  | 159.2  | 172.7  |
| 55°   | 273.7  | 236.6  | 199.5  | 165.0  | 138.8  | 123.4  | 116.4  | 114.5  | 116.4  | 124.1  | 138.1  |
| 57.5° | 227.0  | 195.0  | 162.4  | 131.1  | 108.7  | 95.3   | 88.9   | 86.3   | 90.8   | 95.9   | 112.6  |
| 60°   | 183.5  | 158.0  | 130.5  | 103.0  | 84.4   | 72.3   | 67.1   | 66.5   | 67.8   | 74.2   | 85.7   |
| 62.5° | 143.9  | 122.8  | 101.0  | 78.7   | 63.3   | 58.2   | 51.8   | 51.2   | 52.4   | 56.3   | 65.2   |
| 65°   | 103.6  | 90.2   | 73.5   | 57.6   | 45.4   | 38.4   | 35.8   | 36.5   | 37.7   | 40.3   | 48.6   |
| 67.5° | 72.3   | 62.7   | 51.2   | 40.3   | 31.3   | 28.1   | 25.6   | 24.9   | 25.6   | 30.1   | 34.5   |
| 70°   | 48.6   | 42.8   | 34.5   | 30.7   | 21.7   | 17.3   | 17.9   | 16.0   | 18.5   | 18.5   | 22.4   |
| 72.5° | 32.0   | 28.1   | 23.0   | 17.9   | 15.3   | 12.2   | 12.2   | 11.5   | 12.8   | 13.4   | 16.6   |
| 75°   | 16.6   | 12.8   | 12.8   | 9.0    | 6.4    | 3.2    | 5.8    | 5.1    | 4.5    | 5.1    | 6.4    |
| 77.5° | 11.5   | 9.6    | 9.0    | 7.0    | 6.4    | 5.1    | 5.1    | 5.1    | 5.1    | 5.8    | 6.4    |
| 80°   | 7.0    | 7.0    | 5.1    | 4.5    | 3.8    | 3.2    | 3.8    | 3.8    | 3.8    | 3.8    | 4.5    |
| 82.5° | 4.5    | 3.8    | 3.8    | 3.2    | 3.2    | 2.6    | 2.6    | 2.6    | 2.6    | 2.6    | 3.8    |
| 85°   | 3.8    | 2.6    | 2.6    | 1.9    | 2.6    | 4.5    | 1.9    | 2.6    | 2.6    | 2.6    | 1.9    |
| 87.5° | 1.3    | 1.9    | 1.9    | 1.9    | 1.3    | 0.6    | 1.3    | 1.9    | 1.9    | 3.2    | 2.6    |
| 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):**

|       | 110°   | 115°   | 120°   | 125°   | 130°   | 135°   | 140°   | 145°   | 150°   | 155°   | 160°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1191.4 | 1191.4 | 1191.4 | 1191.4 | 1191.4 | 1191.4 | 1191.4 | 1191.4 | 1191.4 | 1191.4 | 1191.4 |
| 2.5°  | 1193.3 | 1193.9 | 1193.9 | 1193.3 | 1193.3 | 1192.0 | 1194.6 | 1192.6 | 1193.3 | 1195.8 | 1193.9 |
| 5°    | 1194.6 | 1195.2 | 1195.2 | 1194.6 | 1194.6 | 1194.6 | 1195.2 | 1195.2 | 1194.6 | 1193.9 | 1195.2 |
| 7.5°  | 1197.1 | 1196.5 | 1196.5 | 1195.2 | 1195.2 | 1193.9 | 1195.2 | 1193.3 | 1194.6 | 1193.3 | 1195.2 |
| 10°   | 1193.9 | 1194.6 | 1193.9 | 1193.3 | 1193.3 | 1192.6 | 1192.6 | 1190.7 | 1191.4 | 1189.4 | 1190.7 |
| 12.5° | 1192.0 | 1191.4 | 1191.4 | 1190.1 | 1188.8 | 1187.5 | 1186.9 | 1185.0 | 1185.0 | 1180.5 | 1182.4 |
| 15°   | 1186.9 | 1187.5 | 1185.6 | 1183.1 | 1181.8 | 1178.6 | 1177.3 | 1174.7 | 1172.2 | 1169.0 | 1169.6 |
| 17.5° | 1182.4 | 1180.5 | 1177.9 | 1175.4 | 1170.3 | 1167.7 | 1165.1 | 1161.3 | 1160.0 | 1156.2 | 1154.9 |
| 20°   | 1169.0 | 1167.7 | 1164.5 | 1160.0 | 1156.8 | 1151.1 | 1148.5 | 1144.7 | 1141.5 | 1137.6 | 1135.7 |
| 22.5° | 1151.7 | 1150.4 | 1146.6 | 1142.1 | 1137.0 | 1134.5 | 1131.9 | 1124.9 | 1121.7 | 1117.8 | 1117.2 |
| 25°   | 1130.0 | 1128.1 | 1124.2 | 1119.1 | 1116.5 | 1109.5 | 1106.9 | 1101.8 | 1100.6 | 1096.7 | 1096.1 |
| 27.5° | 1096.7 | 1094.2 | 1089.7 | 1083.3 | 1078.8 | 1074.3 | 1071.8 | 1067.9 | 1066.7 | 1062.8 | 1062.2 |
| 30°   | 1046.8 | 1043.6 | 1034.7 | 1032.1 | 1024.5 | 1020.0 | 1020.0 | 1014.9 | 1015.5 | 1013.0 | 1013.0 |
| 32.5° | 968.2  | 963.1  | 956.0  | 950.9  | 945.8  | 943.2  | 943.2  | 941.3  | 942.6  | 942.6  | 943.9  |
| 35°   | 863.9  | 856.9  | 853.1  | 849.9  | 849.9  | 852.4  | 860.1  | 862.0  | 865.9  | 869.1  | 871.6  |
| 37.5° | 730.3  | 729.7  | 734.1  | 738.0  | 747.6  | 758.4  | 771.9  | 783.4  | 794.2  | 801.9  | 809.6  |
| 40°   | 585.8  | 601.8  | 614.5  | 632.5  | 647.2  | 668.3  | 692.6  | 712.4  | 730.9  | 744.4  | 758.4  |
| 42.5° | 457.2  | 477.7  | 504.6  | 530.8  | 557.0  | 585.8  | 617.8  | 645.2  | 669.5  | 688.1  | 702.8  |
| 45°   | 356.2  | 384.3  | 417.0  | 450.2  | 484.1  | 519.9  | 553.2  | 581.3  | 606.9  | 626.1  | 640.8  |
| 47.5° | 287.1  | 317.8  | 354.9  | 391.4  | 429.7  | 467.5  | 504.6  | 528.9  | 550.0  | 565.3  | 578.7  |
| 50°   | 237.2  | 269.9  | 308.9  | 350.4  | 388.8  | 426.5  | 458.5  | 482.2  | 499.4  | 512.9  | 521.2  |
| 52.5° | 198.2  | 232.8  | 274.3  | 315.9  | 354.3  | 388.8  | 417.6  | 435.5  | 449.6  | 459.2  | 466.8  |
| 55°   | 163.7  | 197.0  | 236.0  | 275.0  | 312.7  | 345.3  | 369.0  | 382.4  | 393.3  | 399.0  | 403.5  |
| 57.5° | 133.7  | 164.3  | 200.2  | 236.0  | 268.6  | 295.5  | 314.0  | 327.4  | 332.5  | 337.0  | 336.4  |
| 60°   | 104.9  | 133.7  | 166.3  | 197.0  | 225.1  | 246.8  | 260.3  | 267.9  | 271.8  | 273.7  | 272.4  |
| 62.5° | 82.5   | 108.7  | 133.7  | 160.5  | 181.0  | 199.5  | 212.3  | 212.3  | 214.2  | 214.9  | 216.8  |
| 65°   | 61.4   | 81.2   | 103.0  | 122.8  | 139.4  | 151.6  | 158.6  | 160.5  | 163.1  | 162.4  | 161.2  |
| 67.5° | 45.4   | 60.1   | 76.1   | 90.8   | 102.3  | 110.0  | 115.1  | 119.6  | 119.0  | 117.7  | 117.0  |
| 70°   | 31.3   | 40.9   | 55.0   | 64.0   | 72.3   | 79.9   | 81.2   | 81.9   | 82.5   | 83.1   | 81.9   |
| 72.5° | 21.7   | 28.8   | 36.5   | 44.1   | 49.2   | 52.4   | 55.6   | 56.3   | 56.3   | 56.3   | 55.6   |
| 75°   | 10.9   | 14.7   | 21.7   | 24.9   | 29.4   | 30.7   | 33.3   | 33.3   | 35.2   | 32.6   | 32.0   |
| 77.5° | 9.6    | 11.5   | 15.3   | 17.9   | 19.8   | 21.7   | 22.4   | 24.3   | 23.7   | 22.4   | 23.0   |
| 80°   | 5.8    | 7.0    | 9.6    | 10.9   | 13.4   | 14.1   | 14.7   | 15.3   | 14.7   | 15.3   | 15.3   |
| 82.5° | 4.5    | 5.1    | 6.4    | 6.4    | 8.3    | 8.3    | 9.0    | 9.0    | 9.6    | 9.6    | 9.6    |
| 85°   | 2.6    | 4.5    | 3.8    | 7.7    | 5.1    | 5.1    | 6.4    | 7.7    | 6.4    | 6.4    | 7.7    |
| 87.5° | 2.6    | 2.6    | 1.9    | 2.6    | 2.6    | 2.6    | 3.2    | 3.8    | 3.8    | 4.5    | 3.8    |
| 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: P246099

CATALOG NUMBER: LD8B30D010 ER8B309730 8LBDW0GPH

**CANDELA DISTRIBUTION (continued):**

|       | 165°   | 170°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|
| 0°    | 1191.4 | 1191.4 | 1191.4 | 1191.4 |
| 2.5°  | 1193.3 | 1194.6 | 1192.6 | 1192.0 |
| 5°    | 1195.2 | 1195.2 | 1193.9 | 1193.9 |
| 7.5°  | 1195.2 | 1195.2 | 1193.3 | 1192.0 |
| 10°   | 1190.1 | 1190.1 | 1188.2 | 1186.9 |
| 12.5° | 1180.5 | 1180.5 | 1179.8 | 1177.9 |
| 15°   | 1168.3 | 1168.3 | 1165.8 | 1163.9 |
| 17.5° | 1151.7 | 1153.0 | 1149.8 | 1149.8 |
| 20°   | 1133.8 | 1133.2 | 1130.6 | 1129.3 |
| 22.5° | 1115.3 | 1114.0 | 1113.3 | 1109.5 |
| 25°   | 1095.4 | 1094.2 | 1092.2 | 1090.3 |
| 27.5° | 1061.6 | 1060.9 | 1059.0 | 1056.4 |
| 30°   | 1009.7 | 1009.1 | 1006.6 | 1006.6 |
| 32.5° | 942.6  | 942.0  | 939.4  | 940.1  |
| 35°   | 872.9  | 875.5  | 874.2  | 871.6  |
| 37.5° | 814.7  | 816.6  | 817.9  | 816.6  |
| 40°   | 766.1  | 771.9  | 772.5  | 773.8  |
| 42.5° | 714.3  | 722.0  | 724.5  | 725.8  |
| 45°   | 652.3  | 659.3  | 665.1  | 663.8  |
| 47.5° | 589.0  | 594.1  | 599.2  | 595.4  |
| 50°   | 528.2  | 531.4  | 533.3  | 533.3  |
| 52.5° | 470.7  | 470.7  | 470.0  | 470.7  |
| 55°   | 404.8  | 404.8  | 402.2  | 403.5  |
| 57.5° | 335.7  | 337.0  | 335.1  | 331.9  |
| 60°   | 271.8  | 268.6  | 267.3  | 265.4  |
| 62.5° | 211.7  | 211.7  | 207.2  | 212.9  |
| 65°   | 158.6  | 156.7  | 154.8  | 154.1  |
| 67.5° | 115.1  | 114.5  | 112.6  | 111.9  |
| 70°   | 81.2   | 78.7   | 78.0   | 76.7   |
| 72.5° | 54.4   | 54.4   | 53.1   | 53.1   |
| 75°   | 33.3   | 30.1   | 29.4   | 30.1   |
| 77.5° | 23.0   | 22.4   | 22.4   | 21.7   |
| 80°   | 15.3   | 14.7   | 16.0   | 14.1   |
| 82.5° | 9.6    | 10.2   | 9.6    | 10.2   |
| 85°   | 6.4    | 7.7    | 7.0    | 7.0    |
| 87.5° | 3.8    | 3.8    | 3.8    | 3.8    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)