

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: P244610

Luminaire Tested: **LD8B20D010 ER8B20840 8LBDW0H**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P244610  
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: LD8B20D010 ER8B20840 8LBDW0H  
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT  
80 CRI 4000 CCT WITH SEMI-SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2210.0 lumens  
Efficiency: N/A  
Efficacy: 103.8 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

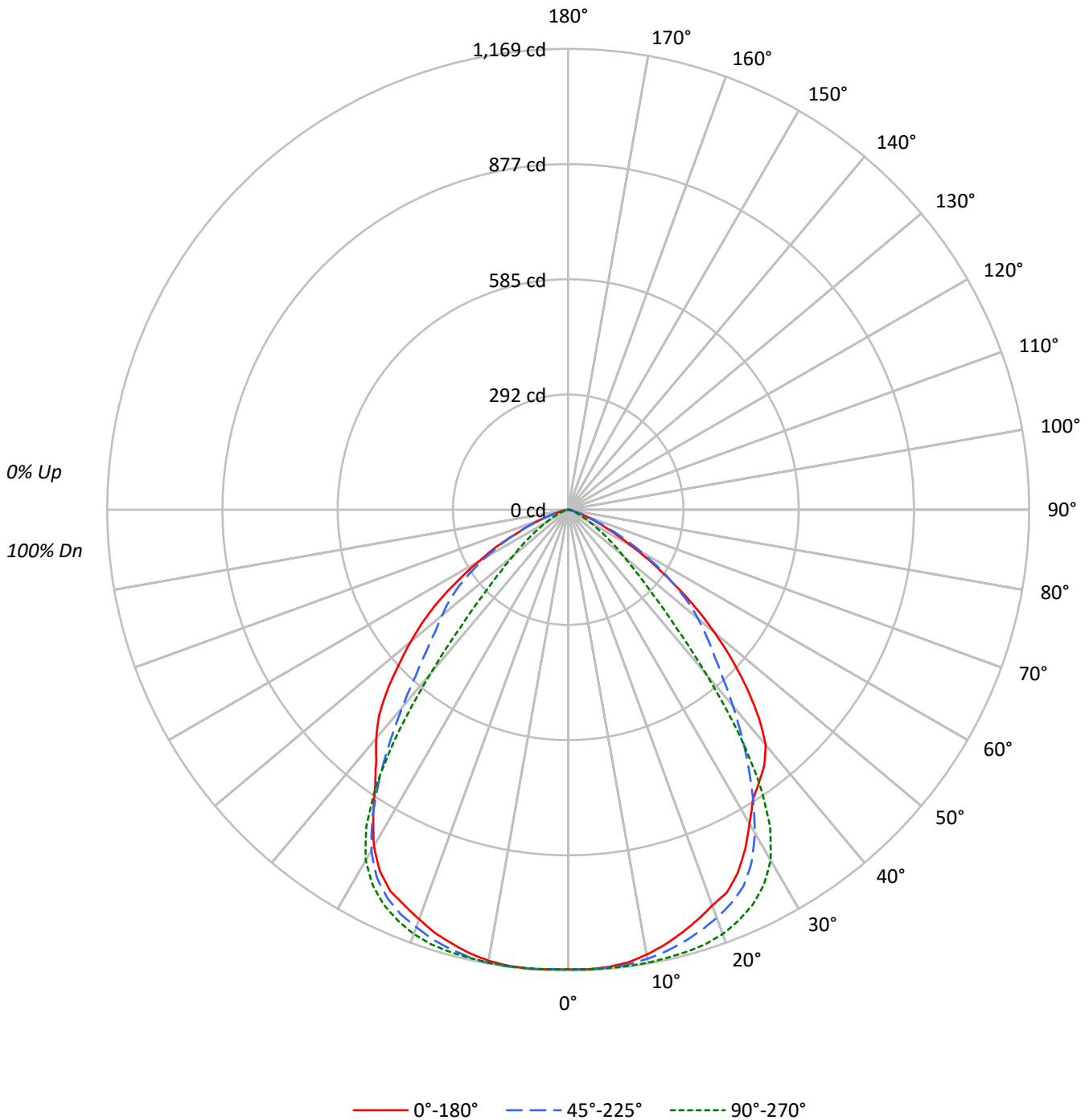
Input Watts (W): 21.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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

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

|     | 0°    | 90°   | 180°  |
|-----|-------|-------|-------|
| 0°  | 35955 | 35955 | 35955 |
| 5°  | 36037 | 36133 | 36173 |
| 10° | 35884 | 36532 | 36375 |
| 15° | 35487 | 37064 | 36365 |
| 20° | 35060 | 37587 | 36271 |
| 25° | 34606 | 37631 | 36311 |
| 30° | 32737 | 36572 | 35080 |
| 35° | 31760 | 31783 | 32114 |
| 40° | 31366 | 21870 | 30484 |
| 45° | 27949 | 13131 | 28333 |
| 50° | 23238 | 8736  | 25042 |
| 55° | 17429 | 6021  | 21230 |
| 60° | 11810 | 4015  | 16023 |
| 65° | 7121  | 2605  | 11003 |
| 70° | 3949  | 1416  | 6771  |
| 75° | 1787  | 596   | 3503  |
| 80° | 1563  | 675   | 2451  |
| 85° | 1769  | 885   | 2441  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 111.3  | 5.0       |
| 10°-20°   | 323.2  | 14.6      |
| 20°-30°   | 490.5  | 22.2      |
| 30°-40°   | 515.2  | 23.3      |
| 40°-50°   | 386.3  | 17.5      |
| 50°-60°   | 247.8  | 11.2      |
| 60°-70°   | 106.0  | 4.8       |
| 70°-80°   | 25.0   | 1.1       |
| 80°-90°   | 4.7    | 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°    | 925.0  | 41.9      |
| 0°-40°    | 1440.2 | 65.2      |
| 0°-60°    | 2074.3 | 93.9      |
| 0°-90°    | 2210.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 2210.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45°  | 90°  | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0°  | 1166 | 1166 | 1166 | 1166 | 1166 |      |
| 5°  | 1164 | 1166 | 1167 | 1169 | 1169 | 111  |
| 15° | 1112 | 1135 | 1161 | 1154 | 1139 | 314  |
| 25° | 1017 | 1053 | 1106 | 1086 | 1067 | 465  |
| 35° | 844  | 797  | 844  | 834  | 853  | 530  |
| 45° | 641  | 524  | 301  | 509  | 650  | 491  |
| 55° | 324  | 324  | 112  | 338  | 395  | 294  |
| 65° | 98   | 115  | 36   | 148  | 151  | 104  |
| 75° | 15   | 18   | 5    | 30   | 29   | 22   |
| 85° | 5    | 3    | 2    | 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°    | 1166.0 | 1166.0 | 1166.0 | 1166.0 | 1166.0 | 1166.0 | 1166.0 | 1166.0 | 1166.0 | 1166.0 | 1166.0 |
| 2.5°  | 1166.7 | 1167.9 | 1167.3 | 1167.3 | 1166.7 | 1167.3 | 1167.3 | 1168.6 | 1168.6 | 1167.3 | 1166.7 |
| 5°    | 1164.2 | 1165.4 | 1165.4 | 1164.2 | 1164.2 | 1167.3 | 1165.4 | 1166.7 | 1166.7 | 1166.0 | 1166.0 |
| 7.5°  | 1158.5 | 1158.5 | 1161.0 | 1159.2 | 1159.2 | 1161.0 | 1160.4 | 1161.7 | 1162.9 | 1163.5 | 1163.5 |
| 10°   | 1146.0 | 1147.3 | 1147.9 | 1147.9 | 1148.5 | 1150.4 | 1151.6 | 1154.2 | 1155.4 | 1156.7 | 1157.3 |
| 12.5° | 1130.4 | 1132.2 | 1132.9 | 1132.2 | 1134.1 | 1136.6 | 1139.8 | 1142.9 | 1144.8 | 1147.3 | 1149.1 |
| 15°   | 1111.6 | 1111.6 | 1112.8 | 1114.7 | 1116.0 | 1119.7 | 1122.9 | 1126.6 | 1131.6 | 1134.8 | 1137.9 |
| 17.5° | 1090.9 | 1092.2 | 1094.1 | 1094.1 | 1096.6 | 1102.8 | 1104.7 | 1110.3 | 1116.0 | 1119.1 | 1125.4 |
| 20°   | 1068.4 | 1069.6 | 1071.5 | 1072.8 | 1075.9 | 1080.9 | 1084.7 | 1089.7 | 1095.9 | 1101.6 | 1107.8 |
| 22.5° | 1050.9 | 1048.4 | 1049.6 | 1050.9 | 1054.0 | 1058.4 | 1062.8 | 1069.0 | 1075.3 | 1080.9 | 1087.2 |
| 25°   | 1017.1 | 1017.7 | 1019.6 | 1020.8 | 1024.6 | 1028.3 | 1033.4 | 1040.9 | 1046.5 | 1052.8 | 1059.6 |
| 27.5° | 971.4  | 972.0  | 975.1  | 975.1  | 978.3  | 984.5  | 987.7  | 993.9  | 1001.4 | 1007.7 | 1015.8 |
| 30°   | 919.4  | 920.7  | 920.7  | 923.2  | 925.1  | 928.2  | 931.3  | 937.6  | 941.3  | 947.0  | 958.3  |
| 32.5° | 871.9  | 873.1  | 872.5  | 871.9  | 870.0  | 869.4  | 868.7  | 870.0  | 871.2  | 873.1  | 877.5  |
| 35°   | 843.7  | 840.6  | 838.1  | 833.7  | 828.7  | 822.4  | 816.8  | 809.3  | 802.4  | 796.8  | 790.5  |
| 37.5° | 816.8  | 816.2  | 812.4  | 806.1  | 796.1  | 784.9  | 771.7  | 755.5  | 739.2  | 721.7  | 704.8  |
| 40°   | 779.2  | 777.4  | 774.2  | 765.5  | 754.2  | 740.4  | 722.9  | 702.9  | 676.6  | 649.7  | 622.1  |
| 42.5° | 715.4  | 716.0  | 712.3  | 705.4  | 694.7  | 681.6  | 663.4  | 641.5  | 613.4  | 581.5  | 545.8  |
| 45°   | 640.9  | 640.9  | 639.7  | 634.0  | 626.5  | 615.9  | 602.1  | 584.0  | 556.4  | 523.9  | 485.7  |
| 47.5° | 563.3  | 563.9  | 562.0  | 560.8  | 557.7  | 550.8  | 540.8  | 527.0  | 507.6  | 476.3  | 438.1  |
| 50°   | 484.4  | 484.4  | 487.6  | 486.9  | 486.9  | 484.4  | 480.1  | 471.9  | 455.0  | 430.0  | 394.3  |
| 52.5° | 405.6  | 406.8  | 408.7  | 411.2  | 414.3  | 419.3  | 414.3  | 410.6  | 399.9  | 380.5  | 349.9  |
| 55°   | 324.2  | 325.5  | 328.6  | 333.0  | 336.7  | 341.7  | 343.0  | 343.0  | 337.4  | 324.2  | 301.1  |
| 57.5° | 254.7  | 252.9  | 255.4  | 259.1  | 264.1  | 269.1  | 272.9  | 277.3  | 276.6  | 267.9  | 249.1  |
| 60°   | 191.5  | 192.2  | 194.0  | 197.8  | 201.5  | 205.9  | 210.9  | 214.7  | 216.6  | 212.2  | 200.3  |
| 62.5° | 139.6  | 139.6  | 142.1  | 145.8  | 147.7  | 154.0  | 157.1  | 159.0  | 160.8  | 160.2  | 152.7  |
| 65°   | 97.6   | 98.9   | 100.1  | 102.0  | 103.9  | 107.6  | 109.5  | 113.3  | 114.5  | 115.2  | 109.5  |
| 67.5° | 68.9   | 67.0   | 68.2   | 69.5   | 71.4   | 73.9   | 77.6   | 77.6   | 79.5   | 79.5   | 75.7   |
| 70°   | 43.8   | 43.8   | 44.4   | 46.3   | 47.6   | 48.2   | 49.5   | 50.7   | 52.6   | 51.9   | 51.9   |
| 72.5° | 29.4   | 28.8   | 29.4   | 30.0   | 30.7   | 32.5   | 32.5   | 33.2   | 34.4   | 35.1   | 32.5   |
| 75°   | 15.0   | 15.7   | 16.9   | 16.3   | 18.1   | 16.9   | 17.5   | 19.4   | 18.8   | 17.5   | 17.5   |
| 77.5° | 12.5   | 12.5   | 12.5   | 11.9   | 13.1   | 13.1   | 12.5   | 13.8   | 13.1   | 13.1   | 12.5   |
| 80°   | 8.8    | 9.4    | 8.8    | 8.1    | 8.8    | 8.1    | 8.1    | 8.1    | 8.1    | 8.1    | 7.5    |
| 82.5° | 6.9    | 5.6    | 6.3    | 5.6    | 6.3    | 6.3    | 5.6    | 5.0    | 5.0    | 5.6    | 5.0    |
| 85°   | 5.0    | 3.8    | 4.4    | 4.4    | 3.8    | 3.8    | 3.8    | 3.8    | 3.8    | 3.1    | 3.1    |
| 87.5° | 3.1    | 1.9    | 1.9    | 1.9    | 2.5    | 2.5    | 2.5    | 1.9    | 2.5    | 2.5    | 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°    | 1166.0 | 1166.0 | 1166.0 | 1166.0 | 1166.0 | 1166.0 | 1166.0 | 1166.0 | 1166.0 | 1166.0 | 1166.0 |
| 2.5°  | 1167.9 | 1167.3 | 1168.6 | 1167.9 | 1167.9 | 1167.3 | 1167.9 | 1167.3 | 1168.6 | 1166.0 | 1166.7 |
| 5°    | 1167.9 | 1166.7 | 1167.3 | 1167.9 | 1168.6 | 1167.3 | 1167.3 | 1167.3 | 1168.6 | 1167.3 | 1167.9 |
| 7.5°  | 1165.4 | 1164.8 | 1166.7 | 1167.9 | 1167.3 | 1166.7 | 1167.9 | 1167.3 | 1168.6 | 1167.9 | 1169.2 |
| 10°   | 1160.4 | 1161.0 | 1162.3 | 1164.2 | 1164.8 | 1165.4 | 1166.7 | 1166.7 | 1168.6 | 1166.0 | 1167.3 |
| 12.5° | 1152.9 | 1155.4 | 1158.5 | 1159.8 | 1162.3 | 1162.3 | 1163.5 | 1164.2 | 1165.4 | 1164.8 | 1166.7 |
| 15°   | 1143.5 | 1146.6 | 1150.4 | 1153.5 | 1156.7 | 1158.5 | 1160.4 | 1161.0 | 1162.9 | 1161.0 | 1161.7 |
| 17.5° | 1132.2 | 1136.0 | 1141.6 | 1145.4 | 1150.4 | 1152.3 | 1154.8 | 1156.0 | 1157.9 | 1156.7 | 1157.3 |
| 20°   | 1116.6 | 1121.0 | 1127.2 | 1132.9 | 1136.0 | 1140.4 | 1143.5 | 1145.4 | 1146.6 | 1145.4 | 1146.0 |
| 22.5° | 1094.7 | 1101.0 | 1109.1 | 1113.5 | 1119.7 | 1123.5 | 1124.1 | 1128.5 | 1131.6 | 1128.5 | 1129.7 |
| 25°   | 1069.0 | 1075.3 | 1081.5 | 1090.9 | 1096.6 | 1101.0 | 1105.3 | 1106.0 | 1109.1 | 1108.5 | 1107.8 |
| 27.5° | 1026.5 | 1034.6 | 1045.2 | 1052.8 | 1060.3 | 1067.2 | 1072.2 | 1073.4 | 1076.5 | 1075.3 | 1075.9 |
| 30°   | 968.3  | 977.0  | 987.0  | 998.9  | 1009.6 | 1016.4 | 1022.7 | 1027.1 | 1030.2 | 1028.3 | 1027.7 |
| 32.5° | 885.6  | 894.4  | 905.0  | 916.9  | 929.5  | 939.5  | 947.0  | 952.6  | 956.4  | 955.1  | 952.0  |
| 35°   | 791.1  | 793.6  | 800.5  | 809.9  | 820.5  | 831.2  | 838.1  | 844.3  | 848.7  | 850.0  | 850.0  |
| 37.5° | 694.1  | 686.0  | 681.0  | 681.0  | 687.2  | 691.6  | 697.9  | 701.6  | 708.5  | 711.0  | 712.9  |
| 40°   | 600.2  | 581.5  | 563.9  | 550.8  | 542.0  | 541.4  | 541.4  | 543.3  | 549.5  | 557.7  | 565.2  |
| 42.5° | 516.4  | 486.3  | 459.4  | 435.0  | 417.5  | 407.5  | 403.1  | 403.7  | 408.7  | 416.2  | 428.7  |
| 45°   | 449.4  | 411.8  | 378.0  | 348.6  | 324.8  | 309.2  | 301.7  | 301.1  | 304.8  | 313.6  | 327.3  |
| 47.5° | 397.4  | 357.4  | 319.2  | 285.4  | 259.8  | 242.8  | 234.1  | 231.6  | 234.1  | 242.2  | 258.5  |
| 50°   | 354.3  | 313.0  | 273.5  | 238.5  | 210.9  | 193.4  | 185.3  | 182.1  | 185.3  | 192.2  | 208.4  |
| 52.5° | 314.2  | 271.6  | 234.7  | 200.9  | 171.5  | 156.5  | 147.7  | 145.8  | 147.7  | 155.8  | 169.0  |
| 55°   | 267.9  | 231.6  | 195.3  | 161.5  | 135.8  | 120.8  | 113.9  | 112.0  | 113.9  | 121.4  | 135.2  |
| 57.5° | 222.2  | 190.9  | 159.0  | 128.3  | 106.4  | 93.3   | 87.0   | 84.5   | 88.9   | 93.9   | 110.2  |
| 60°   | 179.6  | 154.6  | 127.7  | 100.8  | 82.6   | 70.7   | 65.7   | 65.1   | 66.3   | 72.6   | 83.9   |
| 62.5° | 140.8  | 120.2  | 98.9   | 77.0   | 62.0   | 57.0   | 50.7   | 50.1   | 51.3   | 55.1   | 63.8   |
| 65°   | 101.4  | 88.3   | 72.0   | 56.3   | 44.4   | 37.6   | 35.1   | 35.7   | 36.9   | 39.4   | 47.6   |
| 67.5° | 70.7   | 61.3   | 50.1   | 39.4   | 30.7   | 27.5   | 25.0   | 24.4   | 25.0   | 29.4   | 33.8   |
| 70°   | 47.6   | 41.9   | 33.8   | 30.0   | 21.3   | 16.9   | 17.5   | 15.7   | 18.1   | 18.1   | 21.9   |
| 72.5° | 31.3   | 27.5   | 22.5   | 17.5   | 15.0   | 11.9   | 11.9   | 11.3   | 12.5   | 13.1   | 16.3   |
| 75°   | 16.3   | 12.5   | 12.5   | 8.8    | 6.3    | 3.1    | 5.6    | 5.0    | 4.4    | 5.0    | 6.3    |
| 77.5° | 11.3   | 9.4    | 8.8    | 6.9    | 6.3    | 5.0    | 5.0    | 5.0    | 5.0    | 5.6    | 6.3    |
| 80°   | 6.9    | 6.9    | 5.0    | 4.4    | 3.8    | 3.1    | 3.8    | 3.8    | 3.8    | 3.8    | 4.4    |
| 82.5° | 4.4    | 3.8    | 3.8    | 3.1    | 3.1    | 2.5    | 2.5    | 2.5    | 2.5    | 2.5    | 3.8    |
| 85°   | 3.8    | 2.5    | 2.5    | 1.9    | 2.5    | 4.4    | 1.9    | 2.5    | 2.5    | 2.5    | 1.9    |
| 87.5° | 1.3    | 1.9    | 1.9    | 1.9    | 1.3    | 0.6    | 1.3    | 1.9    | 1.9    | 3.1    | 2.5    |
| 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 8LBDW0H

**CANDELA DISTRIBUTION (continued):**

|       | 110°   | 115°   | 120°   | 125°   | 130°   | 135°   | 140°   | 145°   | 150°   | 155°   | 160°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1166.0 | 1166.0 | 1166.0 | 1166.0 | 1166.0 | 1166.0 | 1166.0 | 1166.0 | 1166.0 | 1166.0 | 1166.0 |
| 2.5°  | 1167.9 | 1168.6 | 1168.6 | 1167.9 | 1167.9 | 1166.7 | 1169.2 | 1167.3 | 1167.9 | 1170.4 | 1168.6 |
| 5°    | 1169.2 | 1169.8 | 1169.8 | 1169.2 | 1169.2 | 1169.2 | 1169.8 | 1169.8 | 1169.2 | 1168.6 | 1169.8 |
| 7.5°  | 1171.7 | 1171.0 | 1171.0 | 1169.8 | 1169.8 | 1168.6 | 1169.8 | 1167.9 | 1169.2 | 1167.9 | 1169.8 |
| 10°   | 1168.6 | 1169.2 | 1168.6 | 1167.9 | 1167.9 | 1167.3 | 1167.3 | 1165.4 | 1166.0 | 1164.2 | 1165.4 |
| 12.5° | 1166.7 | 1166.0 | 1166.0 | 1164.8 | 1163.5 | 1162.3 | 1161.7 | 1159.8 | 1159.8 | 1155.4 | 1157.3 |
| 15°   | 1161.7 | 1162.3 | 1160.4 | 1157.9 | 1156.7 | 1153.5 | 1152.3 | 1149.8 | 1147.3 | 1144.1 | 1144.8 |
| 17.5° | 1157.3 | 1155.4 | 1152.9 | 1150.4 | 1145.4 | 1142.9 | 1140.4 | 1136.6 | 1135.4 | 1131.6 | 1130.4 |
| 20°   | 1144.1 | 1142.9 | 1139.8 | 1135.4 | 1132.2 | 1126.6 | 1124.1 | 1120.4 | 1117.2 | 1113.5 | 1111.6 |
| 22.5° | 1127.2 | 1126.0 | 1122.2 | 1117.8 | 1112.8 | 1110.3 | 1107.8 | 1101.0 | 1097.8 | 1094.1 | 1093.4 |
| 25°   | 1106.0 | 1104.1 | 1100.3 | 1095.3 | 1092.8 | 1085.9 | 1083.4 | 1078.4 | 1077.2 | 1073.4 | 1072.8 |
| 27.5° | 1073.4 | 1070.9 | 1066.5 | 1060.3 | 1055.9 | 1051.5 | 1049.0 | 1045.2 | 1044.0 | 1040.2 | 1039.6 |
| 30°   | 1024.6 | 1021.5 | 1012.7 | 1010.2 | 1002.7 | 998.3  | 998.3  | 993.3  | 993.9  | 991.4  | 991.4  |
| 32.5° | 947.6  | 942.6  | 935.7  | 930.7  | 925.7  | 923.2  | 923.2  | 921.3  | 922.6  | 922.6  | 923.8  |
| 35°   | 845.6  | 838.7  | 834.9  | 831.8  | 831.8  | 834.3  | 841.8  | 843.7  | 847.5  | 850.6  | 853.1  |
| 37.5° | 714.8  | 714.2  | 718.5  | 722.3  | 731.7  | 742.3  | 755.5  | 766.7  | 777.4  | 784.9  | 792.4  |
| 40°   | 573.3  | 589.0  | 601.5  | 619.0  | 633.4  | 654.1  | 677.8  | 697.2  | 715.4  | 728.5  | 742.3  |
| 42.5° | 447.5  | 467.5  | 493.8  | 519.5  | 545.2  | 573.3  | 604.6  | 631.5  | 655.3  | 673.5  | 687.9  |
| 45°   | 348.6  | 376.2  | 408.1  | 440.6  | 473.8  | 508.9  | 541.4  | 568.9  | 594.0  | 612.8  | 627.1  |
| 47.5° | 281.0  | 311.1  | 347.4  | 383.0  | 420.6  | 457.5  | 493.8  | 517.6  | 538.3  | 553.3  | 566.4  |
| 50°   | 232.2  | 264.1  | 302.3  | 343.0  | 380.5  | 417.5  | 448.8  | 471.9  | 488.8  | 502.0  | 510.1  |
| 52.5° | 194.0  | 227.8  | 268.5  | 309.2  | 346.7  | 380.5  | 408.7  | 426.2  | 440.0  | 449.4  | 456.9  |
| 55°   | 160.2  | 192.8  | 231.0  | 269.1  | 306.1  | 338.0  | 361.1  | 374.3  | 384.9  | 390.6  | 394.9  |
| 57.5° | 130.8  | 160.8  | 195.9  | 231.0  | 262.9  | 289.2  | 307.3  | 320.5  | 325.5  | 329.8  | 329.2  |
| 60°   | 102.7  | 130.8  | 162.7  | 192.8  | 220.3  | 241.6  | 254.7  | 262.2  | 266.0  | 267.9  | 266.6  |
| 62.5° | 80.7   | 106.4  | 130.8  | 157.1  | 177.1  | 195.3  | 207.8  | 207.8  | 209.7  | 210.3  | 212.2  |
| 65°   | 60.1   | 79.5   | 100.8  | 120.2  | 136.4  | 148.3  | 155.2  | 157.1  | 159.6  | 159.0  | 157.7  |
| 67.5° | 44.4   | 58.8   | 74.5   | 88.9   | 100.1  | 107.6  | 112.7  | 117.0  | 116.4  | 115.2  | 114.5  |
| 70°   | 30.7   | 40.1   | 53.8   | 62.6   | 70.7   | 78.2   | 79.5   | 80.1   | 80.7   | 81.4   | 80.1   |
| 72.5° | 21.3   | 28.2   | 35.7   | 43.2   | 48.2   | 51.3   | 54.5   | 55.1   | 55.1   | 55.1   | 54.5   |
| 75°   | 10.6   | 14.4   | 21.3   | 24.4   | 28.8   | 30.0   | 32.5   | 32.5   | 34.4   | 31.9   | 31.3   |
| 77.5° | 9.4    | 11.3   | 15.0   | 17.5   | 19.4   | 21.3   | 21.9   | 23.8   | 23.2   | 21.9   | 22.5   |
| 80°   | 5.6    | 6.9    | 9.4    | 10.6   | 13.1   | 13.8   | 14.4   | 15.0   | 14.4   | 15.0   | 15.0   |
| 82.5° | 4.4    | 5.0    | 6.3    | 6.3    | 8.1    | 8.1    | 8.8    | 8.8    | 9.4    | 9.4    | 9.4    |
| 85°   | 2.5    | 4.4    | 3.8    | 7.5    | 5.0    | 5.0    | 6.3    | 7.5    | 6.3    | 6.3    | 7.5    |
| 87.5° | 2.5    | 2.5    | 1.9    | 2.5    | 2.5    | 2.5    | 3.1    | 3.8    | 3.8    | 4.4    | 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: P244610

CATALOG NUMBER: LD8B20D010 ER8B20840 8LBDW0H

**CANDELA DISTRIBUTION (continued):**

|       | 165°   | 170°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|
| 0°    | 1166.0 | 1166.0 | 1166.0 | 1166.0 |
| 2.5°  | 1167.9 | 1169.2 | 1167.3 | 1166.7 |
| 5°    | 1169.8 | 1169.8 | 1168.6 | 1168.6 |
| 7.5°  | 1169.8 | 1169.8 | 1167.9 | 1166.7 |
| 10°   | 1164.8 | 1164.8 | 1162.9 | 1161.7 |
| 12.5° | 1155.4 | 1155.4 | 1154.8 | 1152.9 |
| 15°   | 1143.5 | 1143.5 | 1141.0 | 1139.1 |
| 17.5° | 1127.2 | 1128.5 | 1125.4 | 1125.4 |
| 20°   | 1109.7 | 1109.1 | 1106.6 | 1105.3 |
| 22.5° | 1091.6 | 1090.3 | 1089.7 | 1085.9 |
| 25°   | 1072.2 | 1070.9 | 1069.0 | 1067.2 |
| 27.5° | 1039.0 | 1038.4 | 1036.5 | 1034.0 |
| 30°   | 988.3  | 987.7  | 985.2  | 985.2  |
| 32.5° | 922.6  | 921.9  | 919.4  | 920.1  |
| 35°   | 854.3  | 856.9  | 855.6  | 853.1  |
| 37.5° | 797.4  | 799.3  | 800.5  | 799.3  |
| 40°   | 749.8  | 755.5  | 756.1  | 757.3  |
| 42.5° | 699.1  | 706.6  | 709.1  | 710.4  |
| 45°   | 638.4  | 645.3  | 650.9  | 649.7  |
| 47.5° | 576.4  | 581.5  | 586.5  | 582.7  |
| 50°   | 517.0  | 520.1  | 522.0  | 522.0  |
| 52.5° | 460.7  | 460.7  | 460.0  | 460.7  |
| 55°   | 396.2  | 396.2  | 393.7  | 394.9  |
| 57.5° | 328.6  | 329.8  | 328.0  | 324.8  |
| 60°   | 266.0  | 262.9  | 261.6  | 259.8  |
| 62.5° | 207.2  | 207.2  | 202.8  | 208.4  |
| 65°   | 155.2  | 153.3  | 151.5  | 150.8  |
| 67.5° | 112.7  | 112.0  | 110.2  | 109.5  |
| 70°   | 79.5   | 77.0   | 76.4   | 75.1   |
| 72.5° | 53.2   | 53.2   | 51.9   | 51.9   |
| 75°   | 32.5   | 29.4   | 28.8   | 29.4   |
| 77.5° | 22.5   | 21.9   | 21.9   | 21.3   |
| 80°   | 15.0   | 14.4   | 15.7   | 13.8   |
| 82.5° | 9.4    | 10.0   | 9.4    | 10.0   |
| 85°   | 6.3    | 7.5    | 6.9    | 6.9    |
| 87.5° | 3.8    | 3.8    | 3.8    | 3.8    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)