

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: P244604

Luminaire Tested: **LSR8B20D010 EC8B20835 8LBDW0H**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P244604  
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: LSR8B20D010 EC8B20835 8LBDW0H  
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT- CYLINDEC  
80 CRI 3500 CCT WITH SEMI-SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2224.0 lumens  
Efficiency: N/A  
Efficacy: 104.4 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

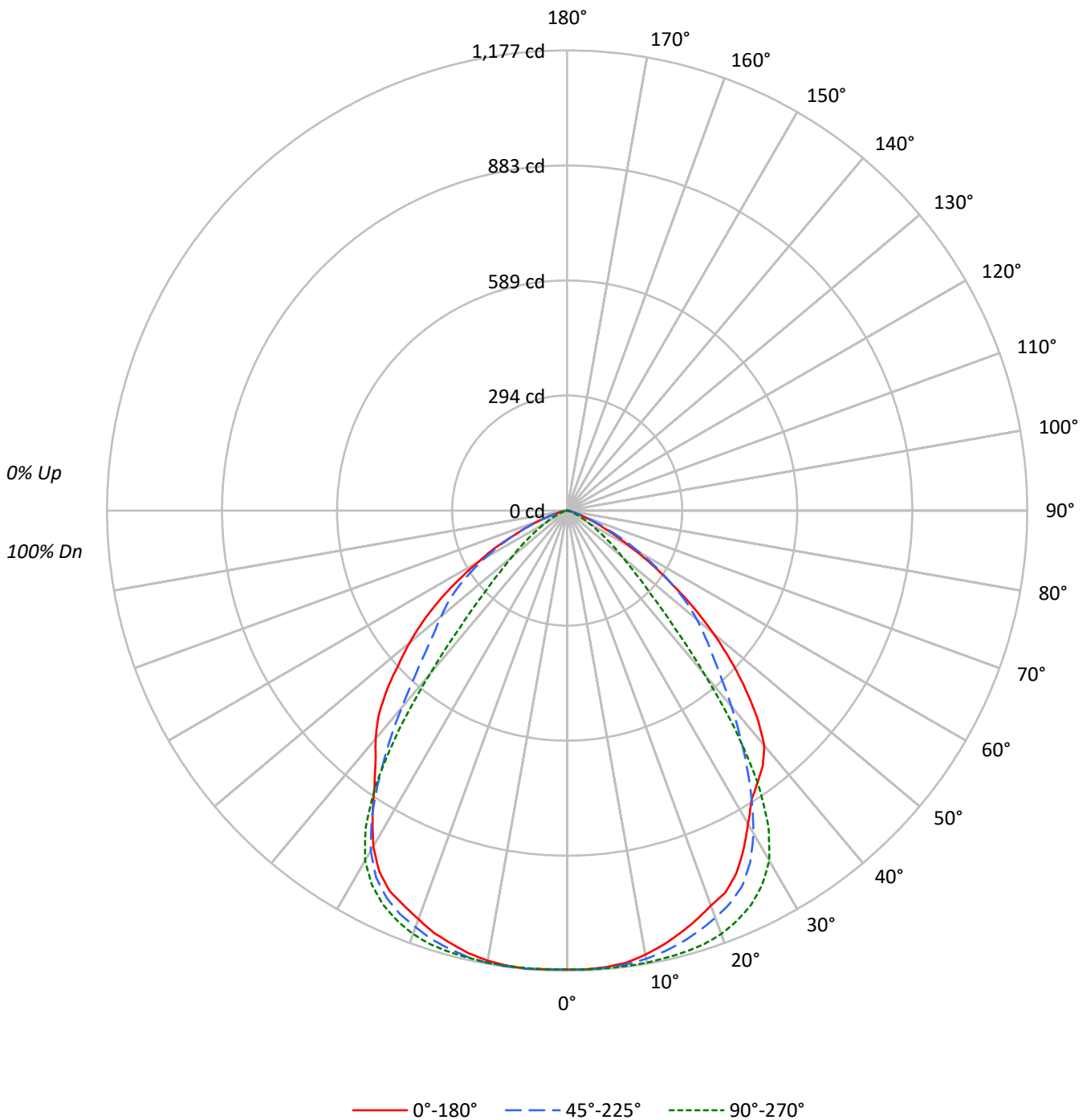
Input Watts (W): 21.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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  | 52  | 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°  | 36183 | 36183 | 36183 |
| 5°  | 36263 | 36362 | 36402 |
| 10° | 36112 | 36763 | 36604 |
| 15° | 35710 | 37300 | 36595 |
| 20° | 35283 | 37823 | 36500 |
| 25° | 34824 | 37869 | 36538 |
| 30° | 32947 | 36803 | 35300 |
| 35° | 31964 | 31986 | 32318 |
| 40° | 31567 | 22007 | 30678 |
| 45° | 28128 | 13214 | 28512 |
| 50° | 23387 | 8793  | 25200 |
| 55° | 17542 | 6064  | 21365 |
| 60° | 11884 | 4040  | 16121 |
| 65° | 7172  | 2619  | 11076 |
| 70° | 3976  | 1425  | 6816  |
| 75° | 1799  | 596   | 3527  |
| 80° | 1563  | 675   | 2468  |
| 85° | 1769  | 885   | 2441  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 112.0  | 5.0       |
| 10°-20°   | 325.2  | 14.6      |
| 20°-30°   | 493.6  | 22.2      |
| 30°-40°   | 518.5  | 23.3      |
| 40°-50°   | 388.7  | 17.5      |
| 50°-60°   | 249.4  | 11.2      |
| 60°-70°   | 106.7  | 4.8       |
| 70°-80°   | 25.2   | 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°    | 930.8  | 41.9      |
| 0°-40°    | 1449.3 | 65.2      |
| 0°-60°    | 2087.4 | 93.9      |
| 0°-90°    | 2224.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 2224.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45°  | 90°  | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0°  | 1173 | 1173 | 1173 | 1173 | 1173 |      |
| 5°  | 1172 | 1173 | 1175 | 1177 | 1176 | 111  |
| 15° | 1119 | 1142 | 1168 | 1161 | 1146 | 316  |
| 25° | 1024 | 1059 | 1113 | 1093 | 1074 | 468  |
| 35° | 849  | 802  | 850  | 840  | 858  | 533  |
| 45° | 645  | 527  | 303  | 512  | 654  | 494  |
| 55° | 326  | 326  | 113  | 340  | 397  | 296  |
| 65° | 98   | 116  | 36   | 149  | 152  | 105  |
| 75° | 15   | 18   | 5    | 30   | 30   | 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°    | 1173.4 | 1173.4 | 1173.4 | 1173.4 | 1173.4 | 1173.4 | 1173.4 | 1173.4 | 1173.4 | 1173.4 | 1173.4 |
| 2.5°  | 1174.1 | 1175.3 | 1174.7 | 1174.7 | 1174.1 | 1174.7 | 1174.7 | 1176.0 | 1176.0 | 1174.7 | 1174.1 |
| 5°    | 1171.5 | 1172.8 | 1172.8 | 1171.5 | 1171.5 | 1174.7 | 1172.8 | 1174.1 | 1174.1 | 1173.4 | 1173.4 |
| 7.5°  | 1165.9 | 1165.9 | 1168.4 | 1166.5 | 1166.5 | 1168.4 | 1167.8 | 1169.0 | 1170.3 | 1170.9 | 1170.9 |
| 10°   | 1153.3 | 1154.5 | 1155.2 | 1155.2 | 1155.8 | 1157.7 | 1158.9 | 1161.5 | 1162.7 | 1164.0 | 1164.6 |
| 12.5° | 1137.5 | 1139.4 | 1140.0 | 1139.4 | 1141.3 | 1143.8 | 1147.0 | 1150.1 | 1152.0 | 1154.5 | 1156.4 |
| 15°   | 1118.6 | 1118.6 | 1119.9 | 1121.8 | 1123.0 | 1126.8 | 1130.0 | 1133.7 | 1138.8 | 1141.9 | 1145.1 |
| 17.5° | 1097.8 | 1099.1 | 1101.0 | 1101.0 | 1103.5 | 1109.8 | 1111.7 | 1117.4 | 1123.0 | 1126.2 | 1132.5 |
| 20°   | 1075.2 | 1076.4 | 1078.3 | 1079.6 | 1082.7 | 1087.8 | 1091.5 | 1096.6 | 1102.9 | 1108.6 | 1114.8 |
| 22.5° | 1057.5 | 1055.0 | 1056.3 | 1057.5 | 1060.7 | 1065.1 | 1069.5 | 1075.8 | 1082.1 | 1087.8 | 1094.1 |
| 25°   | 1023.5 | 1024.1 | 1026.0 | 1027.3 | 1031.1 | 1034.9 | 1039.9 | 1047.5 | 1053.1 | 1059.4 | 1066.3 |
| 27.5° | 977.5  | 978.2  | 981.3  | 981.3  | 984.5  | 990.8  | 993.9  | 1000.2 | 1007.8 | 1014.1 | 1022.3 |
| 30°   | 925.3  | 926.5  | 926.5  | 929.0  | 930.9  | 934.1  | 937.2  | 943.5  | 947.3  | 953.0  | 964.3  |
| 32.5° | 877.4  | 878.6  | 878.0  | 877.4  | 875.5  | 874.9  | 874.2  | 875.5  | 876.8  | 878.6  | 883.1  |
| 35°   | 849.1  | 845.9  | 843.4  | 839.0  | 833.9  | 827.6  | 822.0  | 814.4  | 807.5  | 801.8  | 795.5  |
| 37.5° | 822.0  | 821.3  | 817.6  | 811.3  | 801.2  | 789.8  | 776.6  | 760.2  | 743.9  | 726.2  | 709.2  |
| 40°   | 784.2  | 782.3  | 779.1  | 770.3  | 759.0  | 745.1  | 727.5  | 707.3  | 680.9  | 653.8  | 626.1  |
| 42.5° | 719.9  | 720.6  | 716.8  | 709.8  | 699.1  | 685.9  | 667.6  | 645.6  | 617.3  | 585.1  | 549.2  |
| 45°   | 645.0  | 645.0  | 643.7  | 638.0  | 630.5  | 619.8  | 605.9  | 587.7  | 560.0  | 527.2  | 488.8  |
| 47.5° | 566.9  | 567.5  | 565.6  | 564.4  | 561.2  | 554.3  | 544.2  | 530.3  | 510.8  | 479.3  | 440.9  |
| 50°   | 487.5  | 487.5  | 490.7  | 490.0  | 490.0  | 487.5  | 483.1  | 474.9  | 457.9  | 432.7  | 396.8  |
| 52.5° | 408.1  | 409.4  | 411.3  | 413.8  | 417.0  | 422.0  | 417.0  | 413.2  | 402.5  | 382.9  | 352.1  |
| 55°   | 326.3  | 327.5  | 330.7  | 335.1  | 338.9  | 343.9  | 345.2  | 345.2  | 339.5  | 326.3  | 303.0  |
| 57.5° | 256.4  | 254.5  | 257.0  | 260.8  | 265.8  | 270.8  | 274.6  | 279.0  | 278.4  | 269.6  | 250.7  |
| 60°   | 192.7  | 193.4  | 195.3  | 199.0  | 202.8  | 207.2  | 212.3  | 216.0  | 217.9  | 213.5  | 201.6  |
| 62.5° | 140.5  | 140.5  | 143.0  | 146.7  | 148.6  | 154.9  | 158.1  | 160.0  | 161.9  | 161.2  | 153.7  |
| 65°   | 98.3   | 99.5   | 100.8  | 102.7  | 104.6  | 108.3  | 110.2  | 114.0  | 115.3  | 115.9  | 110.2  |
| 67.5° | 69.3   | 67.4   | 68.7   | 69.9   | 71.8   | 74.3   | 78.1   | 78.1   | 80.0   | 80.0   | 76.2   |
| 70°   | 44.1   | 44.1   | 44.7   | 46.6   | 47.9   | 48.5   | 49.8   | 51.0   | 52.9   | 52.3   | 52.3   |
| 72.5° | 29.6   | 29.0   | 29.6   | 30.2   | 30.9   | 32.7   | 32.7   | 33.4   | 34.6   | 35.3   | 32.7   |
| 75°   | 15.1   | 15.8   | 17.0   | 16.4   | 18.3   | 17.0   | 17.6   | 19.5   | 18.9   | 17.6   | 17.6   |
| 77.5° | 12.6   | 12.6   | 12.6   | 12.0   | 13.2   | 13.2   | 12.6   | 13.9   | 13.2   | 13.2   | 12.6   |
| 80°   | 8.8    | 9.4    | 8.8    | 8.2    | 8.8    | 8.2    | 8.2    | 8.2    | 8.2    | 8.2    | 7.6    |
| 82.5° | 6.9    | 5.7    | 6.3    | 5.7    | 6.3    | 6.3    | 5.7    | 5.0    | 5.0    | 5.7    | 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    |



TEST NUMBER: P244604

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**CANDELA DISTRIBUTION (continued):**

|       | 55°    | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    | 95°    | 100°   | 105°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1173.4 | 1173.4 | 1173.4 | 1173.4 | 1173.4 | 1173.4 | 1173.4 | 1173.4 | 1173.4 | 1173.4 | 1173.4 |
| 2.5°  | 1175.3 | 1174.7 | 1176.0 | 1175.3 | 1175.3 | 1174.7 | 1175.3 | 1174.7 | 1176.0 | 1173.4 | 1174.1 |
| 5°    | 1175.3 | 1174.1 | 1174.7 | 1175.3 | 1176.0 | 1174.7 | 1174.7 | 1174.7 | 1176.0 | 1174.7 | 1175.3 |
| 7.5°  | 1172.8 | 1172.2 | 1174.1 | 1175.3 | 1174.7 | 1174.1 | 1175.3 | 1174.7 | 1176.0 | 1175.3 | 1176.6 |
| 10°   | 1167.8 | 1168.4 | 1169.7 | 1171.5 | 1172.2 | 1172.8 | 1174.1 | 1174.1 | 1176.0 | 1173.4 | 1174.7 |
| 12.5° | 1160.2 | 1162.7 | 1165.9 | 1167.1 | 1169.7 | 1169.7 | 1170.9 | 1171.5 | 1172.8 | 1172.2 | 1174.1 |
| 15°   | 1150.8 | 1153.9 | 1157.7 | 1160.8 | 1164.0 | 1165.9 | 1167.8 | 1168.4 | 1170.3 | 1168.4 | 1169.0 |
| 17.5° | 1139.4 | 1143.2 | 1148.9 | 1152.6 | 1157.7 | 1159.6 | 1162.1 | 1163.3 | 1165.2 | 1164.0 | 1164.6 |
| 20°   | 1123.7 | 1128.1 | 1134.4 | 1140.0 | 1143.2 | 1147.6 | 1150.8 | 1152.6 | 1153.9 | 1152.6 | 1153.3 |
| 22.5° | 1101.6 | 1107.9 | 1116.1 | 1120.5 | 1126.8 | 1130.6 | 1131.2 | 1135.6 | 1138.8 | 1135.6 | 1136.9 |
| 25°   | 1075.8 | 1082.1 | 1088.4 | 1097.8 | 1103.5 | 1107.9 | 1112.3 | 1113.0 | 1116.1 | 1115.5 | 1114.8 |
| 27.5° | 1033.0 | 1041.2 | 1051.9 | 1059.4 | 1067.0 | 1073.9 | 1079.0 | 1080.2 | 1083.4 | 1082.1 | 1082.7 |
| 30°   | 974.4  | 983.2  | 993.3  | 1005.3 | 1016.0 | 1022.9 | 1029.2 | 1033.6 | 1036.7 | 1034.9 | 1034.2 |
| 32.5° | 891.3  | 900.1  | 910.8  | 922.7  | 935.3  | 945.4  | 953.0  | 958.6  | 962.4  | 961.2  | 958.0  |
| 35°   | 796.1  | 798.7  | 805.6  | 815.0  | 825.7  | 836.5  | 843.4  | 849.7  | 854.1  | 855.3  | 855.3  |
| 37.5° | 698.5  | 690.3  | 685.3  | 685.3  | 691.6  | 696.0  | 702.3  | 706.1  | 713.0  | 715.5  | 717.4  |
| 40°   | 604.0  | 585.1  | 567.5  | 554.3  | 545.5  | 544.8  | 544.8  | 546.7  | 553.0  | 561.2  | 568.8  |
| 42.5° | 519.6  | 489.4  | 462.3  | 437.8  | 420.1  | 410.0  | 405.6  | 406.3  | 411.3  | 418.9  | 431.4  |
| 45°   | 452.2  | 414.4  | 380.4  | 350.8  | 326.9  | 311.1  | 303.6  | 303.0  | 306.7  | 315.6  | 329.4  |
| 47.5° | 400.0  | 359.6  | 321.2  | 287.2  | 261.4  | 244.4  | 235.6  | 233.1  | 235.6  | 243.8  | 260.1  |
| 50°   | 356.5  | 314.9  | 275.3  | 240.0  | 212.3  | 194.6  | 186.4  | 183.3  | 186.4  | 193.4  | 209.7  |
| 52.5° | 316.2  | 273.4  | 236.2  | 202.2  | 172.6  | 157.5  | 148.6  | 146.7  | 148.6  | 156.8  | 170.1  |
| 55°   | 269.6  | 233.1  | 196.5  | 162.5  | 136.7  | 121.6  | 114.6  | 112.8  | 114.6  | 122.2  | 136.1  |
| 57.5° | 223.6  | 192.1  | 160.0  | 129.1  | 107.1  | 93.8   | 87.6   | 85.0   | 89.4   | 94.5   | 110.9  |
| 60°   | 180.8  | 155.6  | 128.5  | 101.4  | 83.1   | 71.2   | 66.1   | 65.5   | 66.8   | 73.1   | 84.4   |
| 62.5° | 141.7  | 120.9  | 99.5   | 77.5   | 62.4   | 57.3   | 51.0   | 50.4   | 51.6   | 55.4   | 64.3   |
| 65°   | 102.0  | 88.8   | 72.4   | 56.7   | 44.7   | 37.8   | 35.3   | 35.9   | 37.2   | 39.7   | 47.9   |
| 67.5° | 71.2   | 61.7   | 50.4   | 39.7   | 30.9   | 27.7   | 25.2   | 24.6   | 25.2   | 29.6   | 34.0   |
| 70°   | 47.9   | 42.2   | 34.0   | 30.2   | 21.4   | 17.0   | 17.6   | 15.8   | 18.3   | 18.3   | 22.0   |
| 72.5° | 31.5   | 27.7   | 22.7   | 17.6   | 15.1   | 12.0   | 12.0   | 11.3   | 12.6   | 13.2   | 16.4   |
| 75°   | 16.4   | 12.6   | 12.6   | 8.8    | 6.3    | 3.1    | 5.7    | 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    | 5.7    | 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: LSR8B20D010 EC8B20835 8LBDW0H

**CANDELA DISTRIBUTION (continued):**

|       | 110°   | 115°   | 120°   | 125°   | 130°   | 135°   | 140°   | 145°   | 150°   | 155°   | 160°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1173.4 | 1173.4 | 1173.4 | 1173.4 | 1173.4 | 1173.4 | 1173.4 | 1173.4 | 1173.4 | 1173.4 | 1173.4 |
| 2.5°  | 1175.3 | 1176.0 | 1176.0 | 1175.3 | 1175.3 | 1174.1 | 1176.6 | 1174.7 | 1175.3 | 1177.8 | 1176.0 |
| 5°    | 1176.6 | 1177.2 | 1177.2 | 1176.6 | 1176.6 | 1176.6 | 1177.2 | 1177.2 | 1176.6 | 1176.0 | 1177.2 |
| 7.5°  | 1179.1 | 1178.5 | 1178.5 | 1177.2 | 1177.2 | 1176.0 | 1177.2 | 1175.3 | 1176.6 | 1175.3 | 1177.2 |
| 10°   | 1176.0 | 1176.6 | 1176.0 | 1175.3 | 1175.3 | 1174.7 | 1174.7 | 1172.8 | 1173.4 | 1171.5 | 1172.8 |
| 12.5° | 1174.1 | 1173.4 | 1173.4 | 1172.2 | 1170.9 | 1169.7 | 1169.0 | 1167.1 | 1167.1 | 1162.7 | 1164.6 |
| 15°   | 1169.0 | 1169.7 | 1167.8 | 1165.2 | 1164.0 | 1160.8 | 1159.6 | 1157.0 | 1154.5 | 1151.4 | 1152.0 |
| 17.5° | 1164.6 | 1162.7 | 1160.2 | 1157.7 | 1152.6 | 1150.1 | 1147.6 | 1143.8 | 1142.6 | 1138.8 | 1137.5 |
| 20°   | 1151.4 | 1150.1 | 1147.0 | 1142.6 | 1139.4 | 1133.7 | 1131.2 | 1127.5 | 1124.3 | 1120.5 | 1118.6 |
| 22.5° | 1134.4 | 1133.1 | 1129.3 | 1124.9 | 1119.9 | 1117.4 | 1114.8 | 1107.9 | 1104.8 | 1101.0 | 1100.4 |
| 25°   | 1113.0 | 1111.1 | 1107.3 | 1102.3 | 1099.7 | 1092.8 | 1090.3 | 1085.2 | 1084.0 | 1080.2 | 1079.6 |
| 27.5° | 1080.2 | 1077.7 | 1073.3 | 1067.0 | 1062.6 | 1058.2 | 1055.7 | 1051.9 | 1050.6 | 1046.8 | 1046.2 |
| 30°   | 1031.1 | 1027.9 | 1019.1 | 1016.6 | 1009.0 | 1004.6 | 1004.6 | 999.6  | 1000.2 | 997.7  | 997.7  |
| 32.5° | 953.6  | 948.6  | 941.6  | 936.6  | 931.6  | 929.0  | 929.0  | 927.1  | 928.4  | 928.4  | 929.7  |
| 35°   | 850.9  | 844.0  | 840.2  | 837.1  | 837.1  | 839.6  | 847.2  | 849.1  | 852.8  | 856.0  | 858.5  |
| 37.5° | 719.3  | 718.7  | 723.1  | 726.9  | 736.3  | 747.0  | 760.2  | 771.6  | 782.3  | 789.8  | 797.4  |
| 40°   | 576.9  | 592.7  | 605.3  | 622.9  | 637.4  | 658.2  | 682.1  | 701.7  | 719.9  | 733.2  | 747.0  |
| 42.5° | 450.3  | 470.5  | 497.0  | 522.8  | 548.6  | 576.9  | 608.5  | 635.5  | 659.5  | 677.7  | 692.2  |
| 45°   | 350.8  | 378.5  | 410.7  | 443.4  | 476.8  | 512.1  | 544.8  | 572.5  | 597.7  | 616.6  | 631.1  |
| 47.5° | 282.8  | 313.0  | 349.6  | 385.5  | 423.3  | 460.4  | 497.0  | 520.9  | 541.7  | 556.8  | 570.0  |
| 50°   | 233.7  | 265.8  | 304.2  | 345.2  | 382.9  | 420.1  | 451.6  | 474.9  | 491.9  | 505.1  | 513.3  |
| 52.5° | 195.3  | 229.3  | 270.2  | 311.1  | 348.9  | 382.9  | 411.3  | 428.9  | 442.8  | 452.2  | 459.8  |
| 55°   | 161.2  | 194.0  | 232.4  | 270.8  | 308.0  | 340.1  | 363.4  | 376.7  | 387.4  | 393.0  | 397.4  |
| 57.5° | 131.6  | 161.9  | 197.1  | 232.4  | 264.5  | 291.0  | 309.3  | 322.5  | 327.5  | 331.9  | 331.3  |
| 60°   | 103.3  | 131.6  | 163.8  | 194.0  | 221.7  | 243.1  | 256.4  | 263.9  | 267.7  | 269.6  | 268.3  |
| 62.5° | 81.3   | 107.1  | 131.6  | 158.1  | 178.3  | 196.5  | 209.1  | 209.1  | 211.0  | 211.6  | 213.5  |
| 65°   | 60.5   | 80.0   | 101.4  | 120.9  | 137.3  | 149.3  | 156.2  | 158.1  | 160.6  | 160.0  | 158.7  |
| 67.5° | 44.7   | 59.2   | 74.9   | 89.4   | 100.8  | 108.3  | 113.4  | 117.8  | 117.2  | 115.9  | 115.3  |
| 70°   | 30.9   | 40.3   | 54.2   | 63.0   | 71.2   | 78.7   | 80.0   | 80.6   | 81.3   | 81.9   | 80.6   |
| 72.5° | 21.4   | 28.3   | 35.9   | 43.5   | 48.5   | 51.6   | 54.8   | 55.4   | 55.4   | 55.4   | 54.8   |
| 75°   | 10.7   | 14.5   | 21.4   | 24.6   | 29.0   | 30.2   | 32.7   | 32.7   | 34.6   | 32.1   | 31.5   |
| 77.5° | 9.4    | 11.3   | 15.1   | 17.6   | 19.5   | 21.4   | 22.0   | 23.9   | 23.3   | 22.0   | 22.7   |
| 80°   | 5.7    | 6.9    | 9.4    | 10.7   | 13.2   | 13.9   | 14.5   | 15.1   | 14.5   | 15.1   | 15.1   |
| 82.5° | 4.4    | 5.0    | 6.3    | 6.3    | 8.2    | 8.2    | 8.8    | 8.8    | 9.4    | 9.4    | 9.4    |
| 85°   | 2.5    | 4.4    | 3.8    | 7.6    | 5.0    | 5.0    | 6.3    | 7.6    | 6.3    | 6.3    | 7.6    |
| 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: P244604

CATALOG NUMBER: LSR8B20D010 EC8B20835 8LBDW0H

**CANDELA DISTRIBUTION (continued):**

|       | 165°   | 170°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|
| 0°    | 1173.4 | 1173.4 | 1173.4 | 1173.4 |
| 2.5°  | 1175.3 | 1176.6 | 1174.7 | 1174.1 |
| 5°    | 1177.2 | 1177.2 | 1176.0 | 1176.0 |
| 7.5°  | 1177.2 | 1177.2 | 1175.3 | 1174.1 |
| 10°   | 1172.2 | 1172.2 | 1170.3 | 1169.0 |
| 12.5° | 1162.7 | 1162.7 | 1162.1 | 1160.2 |
| 15°   | 1150.8 | 1150.8 | 1148.2 | 1146.3 |
| 17.5° | 1134.4 | 1135.6 | 1132.5 | 1132.5 |
| 20°   | 1116.7 | 1116.1 | 1113.6 | 1112.3 |
| 22.5° | 1098.5 | 1097.2 | 1096.6 | 1092.8 |
| 25°   | 1079.0 | 1077.7 | 1075.8 | 1073.9 |
| 27.5° | 1045.6 | 1044.9 | 1043.0 | 1040.5 |
| 30°   | 994.5  | 993.9  | 991.4  | 991.4  |
| 32.5° | 928.4  | 927.8  | 925.3  | 925.9  |
| 35°   | 859.8  | 862.3  | 861.0  | 858.5  |
| 37.5° | 802.4  | 804.3  | 805.6  | 804.3  |
| 40°   | 754.6  | 760.2  | 760.9  | 762.1  |
| 42.5° | 703.6  | 711.1  | 713.6  | 714.9  |
| 45°   | 642.4  | 649.4  | 655.1  | 653.8  |
| 47.5° | 580.1  | 585.1  | 590.2  | 586.4  |
| 50°   | 520.3  | 523.4  | 525.3  | 525.3  |
| 52.5° | 463.6  | 463.6  | 462.9  | 463.6  |
| 55°   | 398.7  | 398.7  | 396.2  | 397.4  |
| 57.5° | 330.7  | 331.9  | 330.0  | 326.9  |
| 60°   | 267.7  | 264.5  | 263.3  | 261.4  |
| 62.5° | 208.5  | 208.5  | 204.1  | 209.7  |
| 65°   | 156.2  | 154.3  | 152.4  | 151.8  |
| 67.5° | 113.4  | 112.8  | 110.9  | 110.2  |
| 70°   | 80.0   | 77.5   | 76.8   | 75.6   |
| 72.5° | 53.5   | 53.5   | 52.3   | 52.3   |
| 75°   | 32.7   | 29.6   | 29.0   | 29.6   |
| 77.5° | 22.7   | 22.0   | 22.0   | 21.4   |
| 80°   | 15.1   | 14.5   | 15.8   | 13.9   |
| 82.5° | 9.4    | 10.1   | 9.4    | 10.1   |
| 85°   | 6.3    | 7.6    | 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)