

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: P245030

Luminaire Tested: **LSR8B20D010 EC8B20830 8LBDW0WMH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P245030
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 EC8B20830 8LBDW0WMH
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
80 CRI 3000 CCT WITH WARM HAZE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2128.0 lumens
Efficiency: N/A
Efficacy: 99.9 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

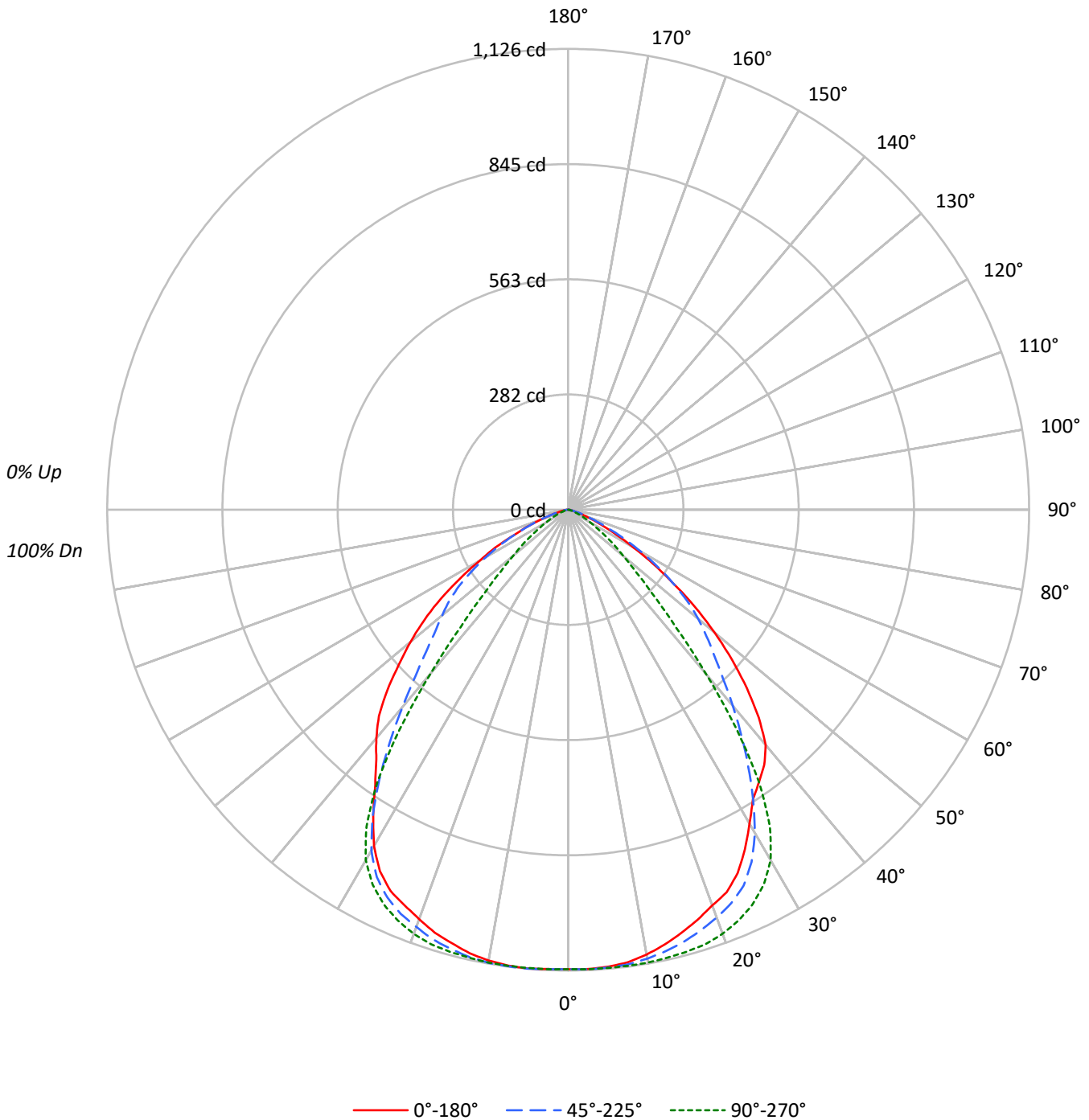
Input Watts (W): 21.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P245030

CATALOG NUMBER: LSR8B20D010 EC8B20830 8LBDW0WMH

Luminous Intensity Polar Plot





TEST NUMBER: P245030

CATALOG NUMBER: LSR8B20D010 EC8B20830 8LBDW0WMH

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° | 34623 | 34623 | 34623 |
| 5° | 34700 | 34792 | 34830 |
| 10° | 34553 | 35176 | 35026 |
| 15° | 34168 | 35691 | 35018 |
| 20° | 33760 | 36192 | 34925 |
| 25° | 33320 | 36232 | 34963 |
| 30° | 31523 | 35215 | 33777 |
| 35° | 30582 | 30605 | 30921 |
| 40° | 30203 | 21057 | 29353 |
| 45° | 26911 | 12642 | 27282 |
| 50° | 22379 | 8414 | 24111 |
| 55° | 16784 | 5801 | 20445 |
| 60° | 11372 | 3867 | 15424 |
| 65° | 6859 | 2510 | 10595 |
| 70° | 3805 | 1361 | 6519 |
| 75° | 1728 | 572 | 3372 |
| 80° | 1492 | 639 | 2362 |
| 85° | 1698 | 849 | 2335 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 107.2 | 5.0 |
| 10°-20° | 311.2 | 14.6 |
| 20°-30° | 472.3 | 22.2 |
| 30°-40° | 496.1 | 23.3 |
| 40°-50° | 371.9 | 17.5 |
| 50°-60° | 238.6 | 11.2 |
| 60°-70° | 102.1 | 4.8 |
| 70°-80° | 24.1 | 1.1 |
| 80°-90° | 4.5 | 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° | 890.7 | 41.9 |
| 0°-40° | 1386.7 | 65.2 |
| 0°-60° | 1997.3 | 93.9 |
| 0°-90° | 2128.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 2128.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0° | 1123 | 1123 | 1123 | 1123 | 1123 | |
| 5° | 1121 | 1123 | 1124 | 1126 | 1125 | 106 |
| 15° | 1070 | 1093 | 1118 | 1111 | 1097 | 302 |
| 25° | 979 | 1014 | 1065 | 1046 | 1028 | 447 |
| 35° | 812 | 767 | 813 | 803 | 821 | 510 |
| 45° | 617 | 504 | 290 | 490 | 626 | 473 |
| 55° | 312 | 312 | 108 | 325 | 380 | 283 |
| 65° | 94 | 111 | 34 | 143 | 145 | 100 |
| 75° | 14 | 17 | 5 | 29 | 28 | 21 |
| 85° | 5 | 3 | 2 | 5 | 7 | 5 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P245030

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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1122.8 | 1122.8 | 1122.8 | 1122.8 | 1122.8 | 1122.8 | 1122.8 | 1122.8 | 1122.8 | 1122.8 | 1122.8 |
| 2.5° | 1123.4 | 1124.6 | 1124.0 | 1124.0 | 1123.4 | 1124.0 | 1124.0 | 1125.2 | 1125.2 | 1124.0 | 1123.4 |
| 5° | 1121.0 | 1122.2 | 1122.2 | 1121.0 | 1121.0 | 1124.0 | 1122.2 | 1123.4 | 1123.4 | 1122.8 | 1122.8 |
| 7.5° | 1115.5 | 1115.5 | 1118.0 | 1116.2 | 1116.2 | 1118.0 | 1117.3 | 1118.6 | 1119.8 | 1120.4 | 1120.4 |
| 10° | 1103.5 | 1104.7 | 1105.3 | 1105.3 | 1105.9 | 1107.7 | 1108.9 | 1111.3 | 1112.5 | 1113.7 | 1114.3 |
| 12.5° | 1088.4 | 1090.2 | 1090.8 | 1090.2 | 1092.0 | 1094.4 | 1097.5 | 1100.5 | 1102.3 | 1104.7 | 1106.5 |
| 15° | 1070.3 | 1070.3 | 1071.5 | 1073.4 | 1074.6 | 1078.2 | 1081.2 | 1084.8 | 1089.6 | 1092.6 | 1095.7 |
| 17.5° | 1050.5 | 1051.7 | 1053.5 | 1053.5 | 1055.9 | 1061.9 | 1063.7 | 1069.1 | 1074.6 | 1077.6 | 1083.6 |
| 20° | 1028.8 | 1030.0 | 1031.8 | 1033.0 | 1036.0 | 1040.8 | 1044.4 | 1049.2 | 1055.3 | 1060.7 | 1066.7 |
| 22.5° | 1011.9 | 1009.5 | 1010.7 | 1011.9 | 1014.9 | 1019.1 | 1023.3 | 1029.4 | 1035.4 | 1040.8 | 1046.8 |
| 25° | 979.3 | 979.9 | 981.8 | 982.9 | 986.6 | 990.2 | 995.0 | 1002.2 | 1007.7 | 1013.7 | 1020.3 |
| 27.5° | 935.3 | 936.0 | 939.0 | 939.0 | 942.0 | 948.0 | 951.0 | 957.0 | 964.3 | 970.3 | 978.1 |
| 30° | 885.3 | 886.5 | 886.5 | 888.9 | 890.7 | 893.8 | 896.8 | 902.8 | 906.4 | 911.8 | 922.7 |
| 32.5° | 839.5 | 840.7 | 840.1 | 839.5 | 837.7 | 837.1 | 836.5 | 837.7 | 838.9 | 840.7 | 844.9 |
| 35° | 812.4 | 809.4 | 807.0 | 802.8 | 797.9 | 791.9 | 786.5 | 779.3 | 772.6 | 767.2 | 761.2 |
| 37.5° | 786.5 | 785.9 | 782.3 | 776.2 | 766.6 | 755.8 | 743.1 | 727.4 | 711.7 | 694.9 | 678.6 |
| 40° | 750.3 | 748.5 | 745.5 | 737.1 | 726.2 | 713.0 | 696.1 | 676.8 | 651.5 | 625.6 | 599.1 |
| 42.5° | 688.8 | 689.5 | 685.8 | 679.2 | 669.0 | 656.3 | 638.8 | 617.7 | 590.6 | 559.9 | 525.5 |
| 45° | 617.1 | 617.1 | 615.9 | 610.5 | 603.3 | 593.0 | 579.8 | 562.3 | 535.8 | 504.4 | 467.7 |
| 47.5° | 542.4 | 543.0 | 541.2 | 540.0 | 537.0 | 530.4 | 520.7 | 507.5 | 488.8 | 458.6 | 421.9 |
| 50° | 466.5 | 466.5 | 469.5 | 468.9 | 468.9 | 466.5 | 462.3 | 454.4 | 438.1 | 414.0 | 379.7 |
| 52.5° | 390.5 | 391.7 | 393.6 | 396.0 | 399.0 | 403.8 | 399.0 | 395.4 | 385.1 | 366.4 | 336.9 |
| 55° | 312.2 | 313.4 | 316.4 | 320.6 | 324.2 | 329.1 | 330.3 | 330.3 | 324.8 | 312.2 | 289.9 |
| 57.5° | 245.3 | 243.5 | 245.9 | 249.5 | 254.3 | 259.2 | 262.8 | 267.0 | 266.4 | 257.9 | 239.9 |
| 60° | 184.4 | 185.0 | 186.8 | 190.4 | 194.1 | 198.3 | 203.1 | 206.7 | 208.5 | 204.3 | 192.9 |
| 62.5° | 134.4 | 134.4 | 136.8 | 140.4 | 142.2 | 148.3 | 151.3 | 153.1 | 154.9 | 154.3 | 147.1 |
| 65° | 94.0 | 95.2 | 96.4 | 98.2 | 100.0 | 103.7 | 105.5 | 109.1 | 110.3 | 110.9 | 105.5 |
| 67.5° | 66.3 | 64.5 | 65.7 | 66.9 | 68.7 | 71.1 | 74.7 | 74.7 | 76.5 | 76.5 | 72.9 |
| 70° | 42.2 | 42.2 | 42.8 | 44.6 | 45.8 | 46.4 | 47.6 | 48.8 | 50.6 | 50.0 | 50.0 |
| 72.5° | 28.3 | 27.7 | 28.3 | 28.9 | 29.5 | 31.3 | 31.3 | 31.9 | 33.1 | 33.8 | 31.3 |
| 75° | 14.5 | 15.1 | 16.3 | 15.7 | 17.5 | 16.3 | 16.9 | 18.7 | 18.1 | 16.9 | 16.9 |
| 77.5° | 12.0 | 12.0 | 12.0 | 11.5 | 12.7 | 12.7 | 12.0 | 13.3 | 12.7 | 12.7 | 12.0 |
| 80° | 8.4 | 9.0 | 8.4 | 7.8 | 8.4 | 7.8 | 7.8 | 7.8 | 7.8 | 7.8 | 7.2 |
| 82.5° | 6.6 | 5.4 | 6.0 | 5.4 | 6.0 | 6.0 | 5.4 | 4.8 | 4.8 | 5.4 | 4.8 |
| 85° | 4.8 | 3.6 | 4.2 | 4.2 | 3.6 | 3.6 | 3.6 | 3.6 | 3.6 | 3.0 | 3.0 |
| 87.5° | 3.0 | 1.8 | 1.8 | 1.8 | 2.4 | 2.4 | 2.4 | 1.8 | 2.4 | 2.4 | 1.2 |
| 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: P245030

CATALOG NUMBER: LSR8B20D010 EC8B20830 8LBDW0WMH

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° | 95° | 100° | 105° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1122.8 | 1122.8 | 1122.8 | 1122.8 | 1122.8 | 1122.8 | 1122.8 | 1122.8 | 1122.8 | 1122.8 | 1122.8 |
| 2.5° | 1124.6 | 1124.0 | 1125.2 | 1124.6 | 1124.6 | 1124.0 | 1124.6 | 1124.0 | 1125.2 | 1122.8 | 1123.4 |
| 5° | 1124.6 | 1123.4 | 1124.0 | 1124.6 | 1125.2 | 1124.0 | 1124.0 | 1124.0 | 1125.2 | 1124.0 | 1124.6 |
| 7.5° | 1122.2 | 1121.6 | 1123.4 | 1124.6 | 1124.0 | 1123.4 | 1124.6 | 1124.0 | 1125.2 | 1124.6 | 1125.8 |
| 10° | 1117.3 | 1118.0 | 1119.2 | 1121.0 | 1121.6 | 1122.2 | 1123.4 | 1123.4 | 1125.2 | 1122.8 | 1124.0 |
| 12.5° | 1110.1 | 1112.5 | 1115.5 | 1116.7 | 1119.2 | 1119.2 | 1120.4 | 1121.0 | 1122.2 | 1121.6 | 1123.4 |
| 15° | 1101.1 | 1104.1 | 1107.7 | 1110.7 | 1113.7 | 1115.5 | 1117.3 | 1118.0 | 1119.8 | 1118.0 | 1118.6 |
| 17.5° | 1090.2 | 1093.8 | 1099.3 | 1102.9 | 1107.7 | 1109.5 | 1111.9 | 1113.1 | 1114.9 | 1113.7 | 1114.3 |
| 20° | 1075.2 | 1079.4 | 1085.4 | 1090.8 | 1093.8 | 1098.1 | 1101.1 | 1102.9 | 1104.1 | 1102.9 | 1103.5 |
| 22.5° | 1054.1 | 1060.1 | 1067.9 | 1072.2 | 1078.2 | 1081.8 | 1082.4 | 1086.6 | 1089.6 | 1086.6 | 1087.8 |
| 25° | 1029.4 | 1035.4 | 1041.4 | 1050.5 | 1055.9 | 1060.1 | 1064.3 | 1064.9 | 1067.9 | 1067.3 | 1066.7 |
| 27.5° | 988.4 | 996.2 | 1006.5 | 1013.7 | 1020.9 | 1027.6 | 1032.4 | 1033.6 | 1036.6 | 1035.4 | 1036.0 |
| 30° | 932.3 | 940.8 | 950.4 | 961.9 | 972.1 | 978.7 | 984.8 | 989.0 | 992.0 | 990.2 | 989.6 |
| 32.5° | 852.8 | 861.2 | 871.5 | 882.9 | 895.0 | 904.6 | 911.8 | 917.3 | 920.9 | 919.7 | 916.7 |
| 35° | 761.8 | 764.2 | 770.8 | 779.9 | 790.1 | 800.3 | 807.0 | 813.0 | 817.2 | 818.4 | 818.4 |
| 37.5° | 668.4 | 660.5 | 655.7 | 655.7 | 661.7 | 665.9 | 672.0 | 675.6 | 682.2 | 684.6 | 686.4 |
| 40° | 578.0 | 559.9 | 543.0 | 530.4 | 521.9 | 521.3 | 521.3 | 523.1 | 529.1 | 537.0 | 544.2 |
| 42.5° | 497.2 | 468.3 | 442.4 | 418.9 | 402.0 | 392.3 | 388.1 | 388.7 | 393.6 | 400.8 | 412.8 |
| 45° | 432.7 | 396.6 | 364.0 | 335.7 | 312.8 | 297.7 | 290.5 | 289.9 | 293.5 | 301.9 | 315.2 |
| 47.5° | 382.7 | 344.1 | 307.4 | 274.8 | 250.1 | 233.8 | 225.4 | 223.0 | 225.4 | 233.2 | 248.9 |
| 50° | 341.1 | 301.3 | 263.4 | 229.6 | 203.1 | 186.2 | 178.4 | 175.4 | 178.4 | 185.0 | 200.7 |
| 52.5° | 302.5 | 261.6 | 226.0 | 193.5 | 165.1 | 150.7 | 142.2 | 140.4 | 142.2 | 150.1 | 162.7 |
| 55° | 257.9 | 223.0 | 188.0 | 155.5 | 130.8 | 116.3 | 109.7 | 107.9 | 109.7 | 116.9 | 130.2 |
| 57.5° | 214.0 | 183.8 | 153.1 | 123.5 | 102.5 | 89.8 | 83.8 | 81.4 | 85.6 | 90.4 | 106.1 |
| 60° | 173.0 | 148.9 | 122.9 | 97.0 | 79.6 | 68.1 | 63.3 | 62.7 | 63.9 | 69.9 | 80.8 |
| 62.5° | 135.6 | 115.7 | 95.2 | 74.1 | 59.7 | 54.8 | 48.8 | 48.2 | 49.4 | 53.0 | 61.5 |
| 65° | 97.6 | 85.0 | 69.3 | 54.2 | 42.8 | 36.2 | 33.8 | 34.4 | 35.6 | 38.0 | 45.8 |
| 67.5° | 68.1 | 59.1 | 48.2 | 38.0 | 29.5 | 26.5 | 24.1 | 23.5 | 24.1 | 28.3 | 32.5 |
| 70° | 45.8 | 40.4 | 32.5 | 28.9 | 20.5 | 16.3 | 16.9 | 15.1 | 17.5 | 17.5 | 21.1 |
| 72.5° | 30.1 | 26.5 | 21.7 | 16.9 | 14.5 | 11.5 | 11.5 | 10.9 | 12.0 | 12.7 | 15.7 |
| 75° | 15.7 | 12.0 | 12.0 | 8.4 | 6.0 | 3.0 | 5.4 | 4.8 | 4.2 | 4.8 | 6.0 |
| 77.5° | 10.9 | 9.0 | 8.4 | 6.6 | 6.0 | 4.8 | 4.8 | 4.8 | 4.8 | 5.4 | 6.0 |
| 80° | 6.6 | 6.6 | 4.8 | 4.2 | 3.6 | 3.0 | 3.6 | 3.6 | 3.6 | 3.6 | 4.2 |
| 82.5° | 4.2 | 3.6 | 3.6 | 3.0 | 3.0 | 2.4 | 2.4 | 2.4 | 2.4 | 2.4 | 3.6 |
| 85° | 3.6 | 2.4 | 2.4 | 1.8 | 2.4 | 4.2 | 1.8 | 2.4 | 2.4 | 2.4 | 1.8 |
| 87.5° | 1.2 | 1.8 | 1.8 | 1.8 | 1.2 | 0.6 | 1.2 | 1.8 | 1.8 | 3.0 | 2.4 |
| 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: P245030

CATALOG NUMBER: LSR8B20D010 EC8B20830 8LBDW0WMH

CANDELA DISTRIBUTION (continued):

| | 110° | 115° | 120° | 125° | 130° | 135° | 140° | 145° | 150° | 155° | 160° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1122.8 | 1122.8 | 1122.8 | 1122.8 | 1122.8 | 1122.8 | 1122.8 | 1122.8 | 1122.8 | 1122.8 | 1122.8 |
| 2.5° | 1124.6 | 1125.2 | 1125.2 | 1124.6 | 1124.6 | 1123.4 | 1125.8 | 1124.0 | 1124.6 | 1127.0 | 1125.2 |
| 5° | 1125.8 | 1126.4 | 1126.4 | 1125.8 | 1125.8 | 1125.8 | 1126.4 | 1126.4 | 1125.8 | 1125.2 | 1126.4 |
| 7.5° | 1128.2 | 1127.6 | 1127.6 | 1126.4 | 1126.4 | 1125.2 | 1126.4 | 1124.6 | 1125.8 | 1124.6 | 1126.4 |
| 10° | 1125.2 | 1125.8 | 1125.2 | 1124.6 | 1124.6 | 1124.0 | 1124.0 | 1122.2 | 1122.8 | 1121.0 | 1122.2 |
| 12.5° | 1123.4 | 1122.8 | 1122.8 | 1121.6 | 1120.4 | 1119.2 | 1118.6 | 1116.7 | 1116.7 | 1112.5 | 1114.3 |
| 15° | 1118.6 | 1119.2 | 1117.3 | 1114.9 | 1113.7 | 1110.7 | 1109.5 | 1107.1 | 1104.7 | 1101.7 | 1102.3 |
| 17.5° | 1114.3 | 1112.5 | 1110.1 | 1107.7 | 1102.9 | 1100.5 | 1098.1 | 1094.4 | 1093.2 | 1089.6 | 1088.4 |
| 20° | 1101.7 | 1100.5 | 1097.5 | 1093.2 | 1090.2 | 1084.8 | 1082.4 | 1078.8 | 1075.8 | 1072.2 | 1070.3 |
| 22.5° | 1085.4 | 1084.2 | 1080.6 | 1076.4 | 1071.5 | 1069.1 | 1066.7 | 1060.1 | 1057.1 | 1053.5 | 1052.9 |
| 25° | 1064.9 | 1063.1 | 1059.5 | 1054.7 | 1052.3 | 1045.6 | 1043.2 | 1038.4 | 1037.2 | 1033.6 | 1033.0 |
| 27.5° | 1033.6 | 1031.2 | 1027.0 | 1020.9 | 1016.7 | 1012.5 | 1010.1 | 1006.5 | 1005.3 | 1001.6 | 1001.0 |
| 30° | 986.6 | 983.6 | 975.1 | 972.7 | 965.5 | 961.3 | 961.3 | 956.4 | 957.0 | 954.6 | 954.6 |
| 32.5° | 912.4 | 907.6 | 901.0 | 896.2 | 891.3 | 888.9 | 888.9 | 887.1 | 888.3 | 888.3 | 889.5 |
| 35° | 814.2 | 807.6 | 804.0 | 800.9 | 800.9 | 803.4 | 810.6 | 812.4 | 816.0 | 819.0 | 821.4 |
| 37.5° | 688.2 | 687.7 | 691.9 | 695.5 | 704.5 | 714.8 | 727.4 | 738.3 | 748.5 | 755.8 | 763.0 |
| 40° | 552.0 | 567.1 | 579.2 | 596.0 | 609.9 | 629.8 | 652.7 | 671.4 | 688.8 | 701.5 | 714.8 |
| 42.5° | 430.9 | 450.2 | 475.5 | 500.2 | 524.9 | 552.0 | 582.2 | 608.1 | 631.0 | 648.5 | 662.3 |
| 45° | 335.7 | 362.2 | 392.9 | 424.3 | 456.2 | 490.0 | 521.3 | 547.8 | 571.9 | 590.0 | 603.9 |
| 47.5° | 270.6 | 299.5 | 334.5 | 368.8 | 405.0 | 440.5 | 475.5 | 498.4 | 518.3 | 532.8 | 545.4 |
| 50° | 223.6 | 254.3 | 291.1 | 330.3 | 366.4 | 402.0 | 432.1 | 454.4 | 470.7 | 483.3 | 491.2 |
| 52.5° | 186.8 | 219.4 | 258.5 | 297.7 | 333.9 | 366.4 | 393.6 | 410.4 | 423.7 | 432.7 | 439.9 |
| 55° | 154.3 | 185.6 | 222.4 | 259.2 | 294.7 | 325.4 | 347.7 | 360.4 | 370.6 | 376.1 | 380.3 |
| 57.5° | 126.0 | 154.9 | 188.6 | 222.4 | 253.1 | 278.4 | 295.9 | 308.6 | 313.4 | 317.6 | 317.0 |
| 60° | 98.8 | 126.0 | 156.7 | 185.6 | 212.1 | 232.6 | 245.3 | 252.5 | 256.1 | 257.9 | 256.7 |
| 62.5° | 77.7 | 102.5 | 126.0 | 151.3 | 170.6 | 188.0 | 200.1 | 200.1 | 201.9 | 202.5 | 204.3 |
| 65° | 57.9 | 76.5 | 97.0 | 115.7 | 131.4 | 142.8 | 149.5 | 151.3 | 153.7 | 153.1 | 151.9 |
| 67.5° | 42.8 | 56.7 | 71.7 | 85.6 | 96.4 | 103.7 | 108.5 | 112.7 | 112.1 | 110.9 | 110.3 |
| 70° | 29.5 | 38.6 | 51.8 | 60.3 | 68.1 | 75.3 | 76.5 | 77.1 | 77.7 | 78.3 | 77.1 |
| 72.5° | 20.5 | 27.1 | 34.4 | 41.6 | 46.4 | 49.4 | 52.4 | 53.0 | 53.0 | 53.0 | 52.4 |
| 75° | 10.2 | 13.9 | 20.5 | 23.5 | 27.7 | 28.9 | 31.3 | 31.3 | 33.1 | 30.7 | 30.1 |
| 77.5° | 9.0 | 10.9 | 14.5 | 16.9 | 18.7 | 20.5 | 21.1 | 22.9 | 22.3 | 21.1 | 21.7 |
| 80° | 5.4 | 6.6 | 9.0 | 10.2 | 12.7 | 13.3 | 13.9 | 14.5 | 13.9 | 14.5 | 14.5 |
| 82.5° | 4.2 | 4.8 | 6.0 | 6.0 | 7.8 | 7.8 | 8.4 | 8.4 | 9.0 | 9.0 | 9.0 |
| 85° | 2.4 | 4.2 | 3.6 | 7.2 | 4.8 | 4.8 | 6.0 | 7.2 | 6.0 | 6.0 | 7.2 |
| 87.5° | 2.4 | 2.4 | 1.8 | 2.4 | 2.4 | 2.4 | 3.0 | 3.6 | 3.6 | 4.2 | 3.6 |
| 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: P245030

CATALOG NUMBER: LSR8B20D010 EC8B20830 8LBDW0WMH

CANDELA DISTRIBUTION (continued):

| | 165° | 170° | 175° | 180° |
|-------|--------|--------|--------|--------|
| 0° | 1122.8 | 1122.8 | 1122.8 | 1122.8 |
| 2.5° | 1124.6 | 1125.8 | 1124.0 | 1123.4 |
| 5° | 1126.4 | 1126.4 | 1125.2 | 1125.2 |
| 7.5° | 1126.4 | 1126.4 | 1124.6 | 1123.4 |
| 10° | 1121.6 | 1121.6 | 1119.8 | 1118.6 |
| 12.5° | 1112.5 | 1112.5 | 1111.9 | 1110.1 |
| 15° | 1101.1 | 1101.1 | 1098.7 | 1096.9 |
| 17.5° | 1085.4 | 1086.6 | 1083.6 | 1083.6 |
| 20° | 1068.5 | 1067.9 | 1065.5 | 1064.3 |
| 22.5° | 1051.1 | 1049.9 | 1049.2 | 1045.6 |
| 25° | 1032.4 | 1031.2 | 1029.4 | 1027.6 |
| 27.5° | 1000.4 | 999.8 | 998.0 | 995.6 |
| 30° | 951.6 | 951.0 | 948.6 | 948.6 |
| 32.5° | 888.3 | 887.7 | 885.3 | 885.9 |
| 35° | 822.6 | 825.1 | 823.9 | 821.4 |
| 37.5° | 767.8 | 769.6 | 770.8 | 769.6 |
| 40° | 722.0 | 727.4 | 728.0 | 729.2 |
| 42.5° | 673.2 | 680.4 | 682.8 | 684.0 |
| 45° | 614.7 | 621.4 | 626.8 | 625.6 |
| 47.5° | 555.1 | 559.9 | 564.7 | 561.1 |
| 50° | 497.8 | 500.8 | 502.6 | 502.6 |
| 52.5° | 443.6 | 443.6 | 443.0 | 443.6 |
| 55° | 381.5 | 381.5 | 379.1 | 380.3 |
| 57.5° | 316.4 | 317.6 | 315.8 | 312.8 |
| 60° | 256.1 | 253.1 | 251.9 | 250.1 |
| 62.5° | 199.5 | 199.5 | 195.3 | 200.7 |
| 65° | 149.5 | 147.7 | 145.8 | 145.2 |
| 67.5° | 108.5 | 107.9 | 106.1 | 105.5 |
| 70° | 76.5 | 74.1 | 73.5 | 72.3 |
| 72.5° | 51.2 | 51.2 | 50.0 | 50.0 |
| 75° | 31.3 | 28.3 | 27.7 | 28.3 |
| 77.5° | 21.7 | 21.1 | 21.1 | 20.5 |
| 80° | 14.5 | 13.9 | 15.1 | 13.3 |
| 82.5° | 9.0 | 9.6 | 9.0 | 9.6 |
| 85° | 6.0 | 7.2 | 6.6 | 6.6 |
| 87.5° | 3.6 | 3.6 | 3.6 | 3.6 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)