

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: P246050

Luminaire Tested: **LSR8B20D010 EC8B20840 8LBDW0GPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P246050
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 EC8B20840 8LBDW0GPH
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
80 CRI 4000 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2160.0 lumens
Efficiency: N/A
Efficacy: 101.4 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

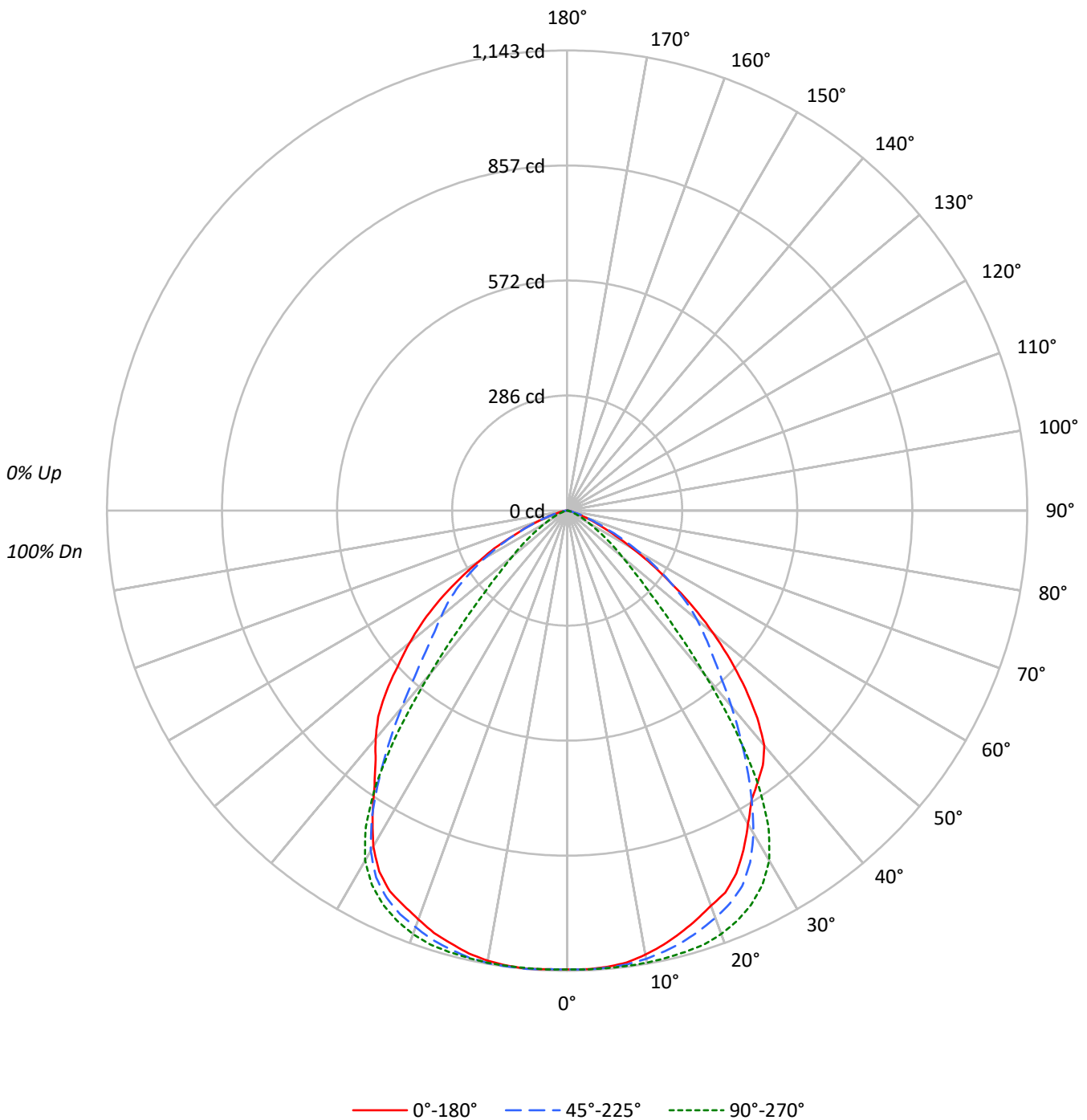
Input Watts (W): 21.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P246050

CATALOG NUMBER: LSR8B20D010 EC8B20840 8LBDW0GPH

Luminous Intensity Polar Plot





TEST NUMBER: P246050

CATALOG NUMBER: LSR8B20D010 EC8B20840 8LBDW0GPH

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° | 35144 | 35144 | 35144 |
| 5° | 35220 | 35316 | 35353 |
| 10° | 35073 | 35705 | 35552 |
| 15° | 34682 | 36227 | 35544 |
| 20° | 34266 | 36737 | 35450 |
| 25° | 33823 | 36777 | 35487 |
| 30° | 31996 | 35746 | 34286 |
| 35° | 31041 | 31064 | 31388 |
| 40° | 30657 | 21375 | 29796 |
| 45° | 27317 | 12830 | 27692 |
| 50° | 22715 | 8539 | 24476 |
| 55° | 17037 | 5887 | 20752 |
| 60° | 11545 | 3922 | 15659 |
| 65° | 6961 | 2546 | 10755 |
| 70° | 3859 | 1379 | 6618 |
| 75° | 1751 | 584 | 3431 |
| 80° | 1527 | 657 | 2397 |
| 85° | 1734 | 849 | 2371 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 108.8 | 5.0 |
| 10°-20° | 315.9 | 14.6 |
| 20°-30° | 479.4 | 22.2 |
| 30°-40° | 503.5 | 23.3 |
| 40°-50° | 377.5 | 17.5 |
| 50°-60° | 242.2 | 11.2 |
| 60°-70° | 103.6 | 4.8 |
| 70°-80° | 24.5 | 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° | 904.1 | 41.9 |
| 0°-40° | 1407.6 | 65.2 |
| 0°-60° | 2027.3 | 93.9 |
| 0°-90° | 2160.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 2160.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0° | 1140 | 1140 | 1140 | 1140 | 1140 | |
| 5° | 1138 | 1140 | 1141 | 1143 | 1142 | 108 |
| 15° | 1086 | 1109 | 1135 | 1127 | 1113 | 306 |
| 25° | 994 | 1029 | 1081 | 1061 | 1043 | 454 |
| 35° | 825 | 779 | 825 | 815 | 834 | 518 |
| 45° | 626 | 512 | 294 | 497 | 635 | 480 |
| 55° | 317 | 317 | 110 | 330 | 386 | 287 |
| 65° | 95 | 113 | 35 | 145 | 147 | 102 |
| 75° | 15 | 17 | 5 | 29 | 29 | 21 |
| 85° | 5 | 3 | 2 | 5 | 7 | 5 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P246050

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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1139.7 | 1139.7 | 1139.7 | 1139.7 | 1139.7 | 1139.7 | 1139.7 | 1139.7 | 1139.7 | 1139.7 | 1139.7 |
| 2.5° | 1140.3 | 1141.5 | 1140.9 | 1140.9 | 1140.3 | 1140.9 | 1140.9 | 1142.1 | 1142.1 | 1140.9 | 1140.3 |
| 5° | 1137.8 | 1139.0 | 1139.0 | 1137.8 | 1137.8 | 1140.9 | 1139.0 | 1140.3 | 1140.3 | 1139.7 | 1139.7 |
| 7.5° | 1132.3 | 1132.3 | 1134.8 | 1132.9 | 1132.9 | 1134.8 | 1134.2 | 1135.4 | 1136.6 | 1137.2 | 1137.2 |
| 10° | 1120.1 | 1121.3 | 1121.9 | 1121.9 | 1122.5 | 1124.4 | 1125.6 | 1128.0 | 1129.3 | 1130.5 | 1131.1 |
| 12.5° | 1104.8 | 1106.6 | 1107.2 | 1106.6 | 1108.5 | 1110.9 | 1114.0 | 1117.0 | 1118.9 | 1121.3 | 1123.1 |
| 15° | 1086.4 | 1086.4 | 1087.7 | 1089.5 | 1090.7 | 1094.4 | 1097.4 | 1101.1 | 1106.0 | 1109.1 | 1112.1 |
| 17.5° | 1066.3 | 1067.5 | 1069.3 | 1069.3 | 1071.8 | 1077.9 | 1079.7 | 1085.2 | 1090.7 | 1093.8 | 1099.9 |
| 20° | 1044.2 | 1045.4 | 1047.3 | 1048.5 | 1051.6 | 1056.5 | 1060.1 | 1065.0 | 1071.1 | 1076.7 | 1082.8 |
| 22.5° | 1027.1 | 1024.7 | 1025.9 | 1027.1 | 1030.2 | 1034.4 | 1038.7 | 1044.8 | 1051.0 | 1056.5 | 1062.6 |
| 25° | 994.1 | 994.7 | 996.5 | 997.7 | 1001.4 | 1005.1 | 1010.0 | 1017.3 | 1022.8 | 1028.9 | 1035.7 |
| 27.5° | 949.4 | 950.0 | 953.1 | 953.1 | 956.1 | 962.3 | 965.3 | 971.4 | 978.8 | 984.9 | 992.9 |
| 30° | 898.6 | 899.9 | 899.9 | 902.3 | 904.1 | 907.2 | 910.3 | 916.4 | 920.0 | 925.6 | 936.6 |
| 32.5° | 852.2 | 853.4 | 852.7 | 852.2 | 850.3 | 849.7 | 849.1 | 850.3 | 851.5 | 853.4 | 857.6 |
| 35° | 824.6 | 821.6 | 819.1 | 814.8 | 809.9 | 803.8 | 798.3 | 791.0 | 784.2 | 778.7 | 772.6 |
| 37.5° | 798.3 | 797.7 | 794.0 | 787.9 | 778.1 | 767.1 | 754.3 | 738.4 | 722.5 | 705.3 | 688.8 |
| 40° | 761.6 | 759.8 | 756.7 | 748.2 | 737.1 | 723.7 | 706.6 | 687.0 | 661.3 | 635.0 | 608.1 |
| 42.5° | 699.2 | 699.8 | 696.2 | 689.4 | 679.0 | 666.2 | 648.4 | 627.0 | 599.5 | 568.3 | 533.4 |
| 45° | 626.4 | 626.4 | 625.2 | 619.7 | 612.3 | 601.9 | 588.5 | 570.7 | 543.8 | 512.0 | 474.7 |
| 47.5° | 550.6 | 551.2 | 549.3 | 548.1 | 545.0 | 538.3 | 528.5 | 515.1 | 496.1 | 465.5 | 428.2 |
| 50° | 473.5 | 473.5 | 476.5 | 475.9 | 475.9 | 473.5 | 469.2 | 461.2 | 444.7 | 420.3 | 385.4 |
| 52.5° | 396.4 | 397.6 | 399.5 | 401.9 | 405.0 | 409.9 | 405.0 | 401.3 | 390.9 | 371.9 | 342.0 |
| 55° | 316.9 | 318.1 | 321.2 | 325.4 | 329.1 | 334.0 | 335.2 | 335.2 | 329.7 | 316.9 | 294.2 |
| 57.5° | 249.0 | 247.1 | 249.6 | 253.3 | 258.2 | 263.0 | 266.7 | 271.0 | 270.4 | 261.8 | 243.5 |
| 60° | 187.2 | 187.8 | 189.6 | 193.3 | 197.0 | 201.3 | 206.2 | 209.8 | 211.7 | 207.4 | 195.8 |
| 62.5° | 136.4 | 136.4 | 138.9 | 142.5 | 144.4 | 150.5 | 153.5 | 155.4 | 157.2 | 156.6 | 149.3 |
| 65° | 95.4 | 96.6 | 97.9 | 99.7 | 101.5 | 105.2 | 107.1 | 110.7 | 111.9 | 112.6 | 107.1 |
| 67.5° | 67.3 | 65.5 | 66.7 | 67.9 | 69.7 | 72.2 | 75.9 | 75.9 | 77.7 | 77.7 | 74.0 |
| 70° | 42.8 | 42.8 | 43.4 | 45.3 | 46.5 | 47.1 | 48.3 | 49.5 | 51.4 | 50.8 | 50.8 |
| 72.5° | 28.8 | 28.1 | 28.8 | 29.4 | 30.0 | 31.8 | 31.8 | 32.4 | 33.6 | 34.3 | 31.8 |
| 75° | 14.7 | 15.3 | 16.5 | 15.9 | 17.7 | 16.5 | 17.1 | 19.0 | 18.4 | 17.1 | 17.1 |
| 77.5° | 12.2 | 12.2 | 12.2 | 11.6 | 12.8 | 12.8 | 12.2 | 13.5 | 12.8 | 12.8 | 12.2 |
| 80° | 8.6 | 9.2 | 8.6 | 7.9 | 8.6 | 7.9 | 7.9 | 7.9 | 7.9 | 7.9 | 7.3 |
| 82.5° | 6.7 | 5.5 | 6.1 | 5.5 | 6.1 | 6.1 | 5.5 | 4.9 | 4.9 | 5.5 | 4.9 |
| 85° | 4.9 | 3.7 | 4.3 | 4.3 | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 | 3.1 | 3.1 |
| 87.5° | 3.1 | 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: P246050

CATALOG NUMBER: LSR8B20D010 EC8B20840 8LBDW0GPH

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° | 95° | 100° | 105° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1139.7 | 1139.7 | 1139.7 | 1139.7 | 1139.7 | 1139.7 | 1139.7 | 1139.7 | 1139.7 | 1139.7 | 1139.7 |
| 2.5° | 1141.5 | 1140.9 | 1142.1 | 1141.5 | 1141.5 | 1140.9 | 1141.5 | 1140.9 | 1142.1 | 1139.7 | 1140.3 |
| 5° | 1141.5 | 1140.3 | 1140.9 | 1141.5 | 1142.1 | 1140.9 | 1140.9 | 1140.9 | 1142.1 | 1140.9 | 1141.5 |
| 7.5° | 1139.0 | 1138.4 | 1140.3 | 1141.5 | 1140.9 | 1140.3 | 1141.5 | 1140.9 | 1142.1 | 1141.5 | 1142.7 |
| 10° | 1134.2 | 1134.8 | 1136.0 | 1137.8 | 1138.4 | 1139.0 | 1140.3 | 1140.3 | 1142.1 | 1139.7 | 1140.9 |
| 12.5° | 1126.8 | 1129.3 | 1132.3 | 1133.5 | 1136.0 | 1136.0 | 1137.2 | 1137.8 | 1139.0 | 1138.4 | 1140.3 |
| 15° | 1117.6 | 1120.7 | 1124.4 | 1127.4 | 1130.5 | 1132.3 | 1134.2 | 1134.8 | 1136.6 | 1134.8 | 1135.4 |
| 17.5° | 1106.6 | 1110.3 | 1115.8 | 1119.5 | 1124.4 | 1126.2 | 1128.6 | 1129.9 | 1131.7 | 1130.5 | 1131.1 |
| 20° | 1091.3 | 1095.6 | 1101.7 | 1107.2 | 1110.3 | 1114.6 | 1117.6 | 1119.5 | 1120.7 | 1119.5 | 1120.1 |
| 22.5° | 1069.9 | 1076.0 | 1084.0 | 1088.3 | 1094.4 | 1098.1 | 1098.7 | 1103.0 | 1106.0 | 1103.0 | 1104.2 |
| 25° | 1044.8 | 1051.0 | 1057.1 | 1066.3 | 1071.8 | 1076.0 | 1080.3 | 1080.9 | 1084.0 | 1083.4 | 1082.8 |
| 27.5° | 1003.2 | 1011.2 | 1021.6 | 1028.9 | 1036.3 | 1043.0 | 1047.9 | 1049.1 | 1052.2 | 1051.0 | 1051.6 |
| 30° | 946.3 | 954.9 | 964.7 | 976.3 | 986.7 | 993.5 | 999.6 | 1003.9 | 1006.9 | 1005.1 | 1004.5 |
| 32.5° | 865.6 | 874.2 | 884.6 | 896.2 | 908.4 | 918.2 | 925.6 | 931.1 | 934.7 | 933.5 | 930.4 |
| 35° | 773.2 | 775.7 | 782.4 | 791.6 | 802.0 | 812.4 | 819.1 | 825.2 | 829.5 | 830.7 | 830.7 |
| 37.5° | 678.4 | 670.5 | 665.6 | 665.6 | 671.7 | 676.0 | 682.1 | 685.8 | 692.5 | 694.9 | 696.8 |
| 40° | 586.6 | 568.3 | 551.2 | 538.3 | 529.8 | 529.2 | 529.2 | 531.0 | 537.1 | 545.0 | 552.4 |
| 42.5° | 504.7 | 475.3 | 449.0 | 425.2 | 408.0 | 398.2 | 394.0 | 394.6 | 399.5 | 406.8 | 419.0 |
| 45° | 439.2 | 402.5 | 369.5 | 340.7 | 317.5 | 302.2 | 294.9 | 294.2 | 297.9 | 306.5 | 319.9 |
| 47.5° | 388.5 | 349.3 | 312.0 | 278.9 | 253.9 | 237.3 | 228.8 | 226.3 | 228.8 | 236.7 | 252.6 |
| 50° | 346.2 | 305.9 | 267.3 | 233.1 | 206.2 | 189.0 | 181.1 | 178.0 | 181.1 | 187.8 | 203.7 |
| 52.5° | 307.1 | 265.5 | 229.4 | 196.4 | 167.6 | 152.9 | 144.4 | 142.5 | 144.4 | 152.3 | 165.2 |
| 55° | 261.8 | 226.3 | 190.9 | 157.8 | 132.8 | 118.1 | 111.3 | 109.5 | 111.3 | 118.7 | 132.1 |
| 57.5° | 217.2 | 186.6 | 155.4 | 125.4 | 104.0 | 91.1 | 85.0 | 82.6 | 86.9 | 91.8 | 107.7 |
| 60° | 175.6 | 151.1 | 124.8 | 98.5 | 80.8 | 69.1 | 64.2 | 63.6 | 64.8 | 71.0 | 82.0 |
| 62.5° | 137.6 | 117.5 | 96.6 | 75.2 | 60.6 | 55.7 | 49.5 | 48.9 | 50.2 | 53.8 | 62.4 |
| 65° | 99.1 | 86.3 | 70.4 | 55.1 | 43.4 | 36.7 | 34.3 | 34.9 | 36.1 | 38.5 | 46.5 |
| 67.5° | 69.1 | 59.9 | 48.9 | 38.5 | 30.0 | 26.9 | 24.5 | 23.9 | 24.5 | 28.8 | 33.0 |
| 70° | 46.5 | 41.0 | 33.0 | 29.4 | 20.8 | 16.5 | 17.1 | 15.3 | 17.7 | 17.7 | 21.4 |
| 72.5° | 30.6 | 26.9 | 22.0 | 17.1 | 14.7 | 11.6 | 11.6 | 11.0 | 12.2 | 12.8 | 15.9 |
| 75° | 15.9 | 12.2 | 12.2 | 8.6 | 6.1 | 3.1 | 5.5 | 4.9 | 4.3 | 4.9 | 6.1 |
| 77.5° | 11.0 | 9.2 | 8.6 | 6.7 | 6.1 | 4.9 | 4.9 | 4.9 | 4.9 | 5.5 | 6.1 |
| 80° | 6.7 | 6.7 | 4.9 | 4.3 | 3.7 | 3.1 | 3.7 | 3.7 | 3.7 | 3.7 | 4.3 |
| 82.5° | 4.3 | 3.7 | 3.7 | 3.1 | 3.1 | 2.4 | 2.4 | 2.4 | 2.4 | 2.4 | 3.7 |
| 85° | 3.7 | 2.4 | 2.4 | 1.8 | 2.4 | 4.3 | 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 | 3.1 | 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: P246050

CATALOG NUMBER: LSR8B20D010 EC8B20840 8LBDW0GPH

CANDELA DISTRIBUTION (continued):

| | 110° | 115° | 120° | 125° | 130° | 135° | 140° | 145° | 150° | 155° | 160° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1139.7 | 1139.7 | 1139.7 | 1139.7 | 1139.7 | 1139.7 | 1139.7 | 1139.7 | 1139.7 | 1139.7 | 1139.7 |
| 2.5° | 1141.5 | 1142.1 | 1142.1 | 1141.5 | 1141.5 | 1140.3 | 1142.7 | 1140.9 | 1141.5 | 1143.9 | 1142.1 |
| 5° | 1142.7 | 1143.3 | 1143.3 | 1142.7 | 1142.7 | 1142.7 | 1143.3 | 1143.3 | 1142.7 | 1142.1 | 1143.3 |
| 7.5° | 1145.2 | 1144.6 | 1144.6 | 1143.3 | 1143.3 | 1142.1 | 1143.3 | 1141.5 | 1142.7 | 1141.5 | 1143.3 |
| 10° | 1142.1 | 1142.7 | 1142.1 | 1141.5 | 1141.5 | 1140.9 | 1140.9 | 1139.0 | 1139.7 | 1137.8 | 1139.0 |
| 12.5° | 1140.3 | 1139.7 | 1139.7 | 1138.4 | 1137.2 | 1136.0 | 1135.4 | 1133.5 | 1133.5 | 1129.3 | 1131.1 |
| 15° | 1135.4 | 1136.0 | 1134.2 | 1131.7 | 1130.5 | 1127.4 | 1126.2 | 1123.7 | 1121.3 | 1118.3 | 1118.9 |
| 17.5° | 1131.1 | 1129.3 | 1126.8 | 1124.4 | 1119.5 | 1117.0 | 1114.6 | 1110.9 | 1109.7 | 1106.0 | 1104.8 |
| 20° | 1118.3 | 1117.0 | 1114.0 | 1109.7 | 1106.6 | 1101.1 | 1098.7 | 1095.0 | 1091.9 | 1088.3 | 1086.4 |
| 22.5° | 1101.7 | 1100.5 | 1096.8 | 1092.6 | 1087.7 | 1085.2 | 1082.8 | 1076.0 | 1073.0 | 1069.3 | 1068.7 |
| 25° | 1080.9 | 1079.1 | 1075.4 | 1070.5 | 1068.1 | 1061.4 | 1058.9 | 1054.0 | 1052.8 | 1049.1 | 1048.5 |
| 27.5° | 1049.1 | 1046.7 | 1042.4 | 1036.3 | 1032.0 | 1027.7 | 1025.3 | 1021.6 | 1020.4 | 1016.7 | 1016.1 |
| 30° | 1001.4 | 998.3 | 989.8 | 987.3 | 980.0 | 975.7 | 975.7 | 970.8 | 971.4 | 969.0 | 969.0 |
| 32.5° | 926.2 | 921.3 | 914.5 | 909.6 | 904.7 | 902.3 | 902.3 | 900.5 | 901.7 | 901.7 | 902.9 |
| 35° | 826.5 | 819.7 | 816.0 | 813.0 | 813.0 | 815.4 | 822.8 | 824.6 | 828.3 | 831.3 | 833.8 |
| 37.5° | 698.6 | 698.0 | 702.3 | 705.9 | 715.1 | 725.5 | 738.4 | 749.4 | 759.8 | 767.1 | 774.5 |
| 40° | 560.3 | 575.6 | 587.9 | 605.0 | 619.1 | 639.3 | 662.5 | 681.5 | 699.2 | 712.1 | 725.5 |
| 42.5° | 437.4 | 457.0 | 482.7 | 507.7 | 532.8 | 560.3 | 590.9 | 617.2 | 640.5 | 658.2 | 672.3 |
| 45° | 340.7 | 367.6 | 398.9 | 430.7 | 463.1 | 497.3 | 529.2 | 556.1 | 580.5 | 598.9 | 613.0 |
| 47.5° | 274.7 | 304.0 | 339.5 | 374.4 | 411.1 | 447.2 | 482.7 | 505.9 | 526.1 | 540.8 | 553.6 |
| 50° | 226.9 | 258.2 | 295.5 | 335.2 | 371.9 | 408.0 | 438.6 | 461.2 | 477.8 | 490.6 | 498.6 |
| 52.5° | 189.6 | 222.7 | 262.4 | 302.2 | 338.9 | 371.9 | 399.5 | 416.6 | 430.0 | 439.2 | 446.6 |
| 55° | 156.6 | 188.4 | 225.7 | 263.0 | 299.1 | 330.3 | 353.0 | 365.8 | 376.2 | 381.7 | 386.0 |
| 57.5° | 127.9 | 157.2 | 191.5 | 225.7 | 256.9 | 282.6 | 300.4 | 313.2 | 318.1 | 322.4 | 321.8 |
| 60° | 100.3 | 127.9 | 159.1 | 188.4 | 215.3 | 236.1 | 249.0 | 256.3 | 260.0 | 261.8 | 260.6 |
| 62.5° | 78.9 | 104.0 | 127.9 | 153.5 | 173.1 | 190.9 | 203.1 | 203.1 | 204.9 | 205.5 | 207.4 |
| 65° | 58.7 | 77.7 | 98.5 | 117.5 | 133.4 | 145.0 | 151.7 | 153.5 | 156.0 | 155.4 | 154.2 |
| 67.5° | 43.4 | 57.5 | 72.8 | 86.9 | 97.9 | 105.2 | 110.1 | 114.4 | 113.8 | 112.6 | 111.9 |
| 70° | 30.0 | 39.2 | 52.6 | 61.2 | 69.1 | 76.5 | 77.7 | 78.3 | 78.9 | 79.5 | 78.3 |
| 72.5° | 20.8 | 27.5 | 34.9 | 42.2 | 47.1 | 50.2 | 53.2 | 53.8 | 53.8 | 53.8 | 53.2 |
| 75° | 10.4 | 14.1 | 20.8 | 23.9 | 28.1 | 29.4 | 31.8 | 31.8 | 33.6 | 31.2 | 30.6 |
| 77.5° | 9.2 | 11.0 | 14.7 | 17.1 | 19.0 | 20.8 | 21.4 | 23.2 | 22.6 | 21.4 | 22.0 |
| 80° | 5.5 | 6.7 | 9.2 | 10.4 | 12.8 | 13.5 | 14.1 | 14.7 | 14.1 | 14.7 | 14.7 |
| 82.5° | 4.3 | 4.9 | 6.1 | 6.1 | 7.9 | 7.9 | 8.6 | 8.6 | 9.2 | 9.2 | 9.2 |
| 85° | 2.4 | 4.3 | 3.7 | 7.3 | 4.9 | 4.9 | 6.1 | 7.3 | 6.1 | 6.1 | 7.3 |
| 87.5° | 2.4 | 2.4 | 1.8 | 2.4 | 2.4 | 2.4 | 3.1 | 3.7 | 3.7 | 4.3 | 3.7 |
| 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: P246050

CATALOG NUMBER: LSR8B20D010 EC8B20840 8LBDW0GPH

CANDELA DISTRIBUTION (continued):

| | 165° | 170° | 175° | 180° |
|-------|--------|--------|--------|--------|
| 0° | 1139.7 | 1139.7 | 1139.7 | 1139.7 |
| 2.5° | 1141.5 | 1142.7 | 1140.9 | 1140.3 |
| 5° | 1143.3 | 1143.3 | 1142.1 | 1142.1 |
| 7.5° | 1143.3 | 1143.3 | 1141.5 | 1140.3 |
| 10° | 1138.4 | 1138.4 | 1136.6 | 1135.4 |
| 12.5° | 1129.3 | 1129.3 | 1128.6 | 1126.8 |
| 15° | 1117.6 | 1117.6 | 1115.2 | 1113.4 |
| 17.5° | 1101.7 | 1103.0 | 1099.9 | 1099.9 |
| 20° | 1084.6 | 1084.0 | 1081.6 | 1080.3 |
| 22.5° | 1066.9 | 1065.6 | 1065.0 | 1061.4 |
| 25° | 1047.9 | 1046.7 | 1044.8 | 1043.0 |
| 27.5° | 1015.5 | 1014.9 | 1013.0 | 1010.6 |
| 30° | 965.9 | 965.3 | 962.9 | 962.9 |
| 32.5° | 901.7 | 901.1 | 898.6 | 899.3 |
| 35° | 835.0 | 837.5 | 836.2 | 833.8 |
| 37.5° | 779.3 | 781.2 | 782.4 | 781.2 |
| 40° | 732.9 | 738.4 | 739.0 | 740.2 |
| 42.5° | 683.3 | 690.6 | 693.1 | 694.3 |
| 45° | 624.0 | 630.7 | 636.2 | 635.0 |
| 47.5° | 563.4 | 568.3 | 573.2 | 569.5 |
| 50° | 505.3 | 508.3 | 510.2 | 510.2 |
| 52.5° | 450.2 | 450.2 | 449.6 | 450.2 |
| 55° | 387.2 | 387.2 | 384.8 | 386.0 |
| 57.5° | 321.2 | 322.4 | 320.5 | 317.5 |
| 60° | 260.0 | 256.9 | 255.7 | 253.9 |
| 62.5° | 202.5 | 202.5 | 198.2 | 203.7 |
| 65° | 151.7 | 149.9 | 148.0 | 147.4 |
| 67.5° | 110.1 | 109.5 | 107.7 | 107.1 |
| 70° | 77.7 | 75.2 | 74.6 | 73.4 |
| 72.5° | 52.0 | 52.0 | 50.8 | 50.8 |
| 75° | 31.8 | 28.8 | 28.1 | 28.8 |
| 77.5° | 22.0 | 21.4 | 21.4 | 20.8 |
| 80° | 14.7 | 14.1 | 15.3 | 13.5 |
| 82.5° | 9.2 | 9.8 | 9.2 | 9.8 |
| 85° | 6.1 | 7.3 | 6.7 | 6.7 |
| 87.5° | 3.7 | 3.7 | 3.7 | 3.7 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)