

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: P244640

Luminaire Tested: **LD8B20D010 ER8B20940 8LBDW0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P244640
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 ER8B20940 8LBDW0H
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
90 CRI 4000 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1981.0 lumens
Efficiency: N/A
Efficacy: 93.0 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

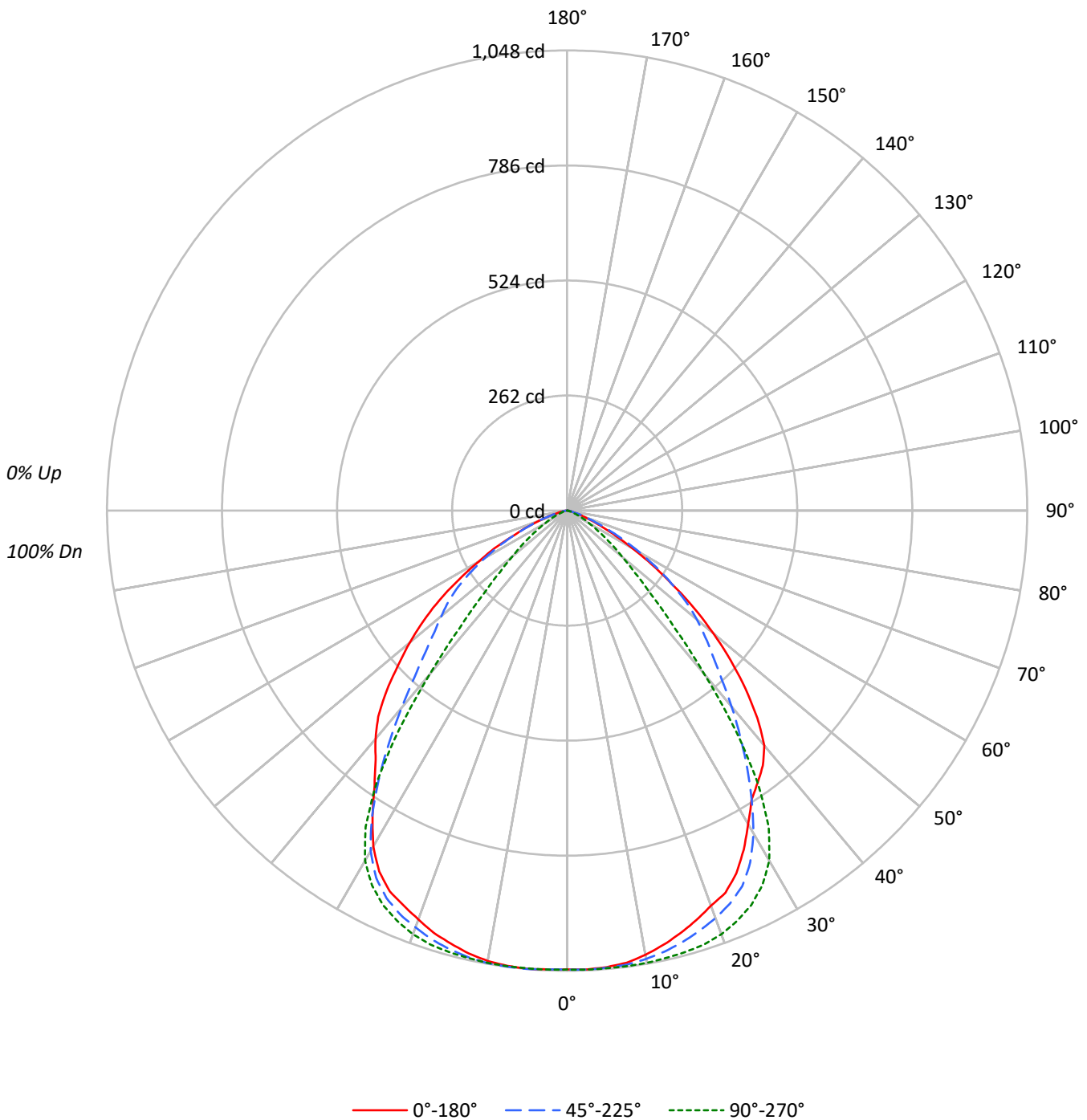
Input Watts (W): 21.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P244640

CATALOG NUMBER: LD8B20D010 ER8B20940 8LBDW0H

Luminous Intensity Polar Plot





TEST NUMBER: P244640

CATALOG NUMBER: LD8B20D010 ER8B20940 8LBDW0H

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° | 32230 | 32230 | 32230 |
| 5° | 32301 | 32387 | 32424 |
| 10° | 32167 | 32746 | 32605 |
| 15° | 31809 | 33223 | 32598 |
| 20° | 31427 | 33691 | 32513 |
| 25° | 31020 | 33732 | 32547 |
| 30° | 29347 | 32783 | 31444 |
| 35° | 28470 | 28489 | 28787 |
| 40° | 28117 | 19604 | 27328 |
| 45° | 25053 | 11770 | 25398 |
| 50° | 20830 | 7834 | 22446 |
| 55° | 15623 | 5398 | 19032 |
| 60° | 10589 | 3596 | 14357 |
| 65° | 6384 | 2335 | 9865 |
| 70° | 3543 | 1262 | 6068 |
| 75° | 1608 | 536 | 3145 |
| 80° | 1403 | 604 | 2184 |
| 85° | 1592 | 778 | 2194 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 99.8 | 5.0 |
| 10°-20° | 289.7 | 14.6 |
| 20°-30° | 439.7 | 22.2 |
| 30°-40° | 461.8 | 23.3 |
| 40°-50° | 346.2 | 17.5 |
| 50°-60° | 222.2 | 11.2 |
| 60°-70° | 95.0 | 4.8 |
| 70°-80° | 22.5 | 1.1 |
| 80°-90° | 4.2 | 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° | 829.1 | 41.9 |
| 0°-40° | 1291.0 | 65.2 |
| 0°-60° | 1859.3 | 93.9 |
| 0°-90° | 1981.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 1981.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0° | 1045 | 1045 | 1045 | 1045 | 1045 | |
| 5° | 1044 | 1045 | 1046 | 1048 | 1048 | 99 |
| 15° | 996 | 1017 | 1041 | 1034 | 1021 | 281 |
| 25° | 912 | 944 | 991 | 973 | 957 | 416 |
| 35° | 756 | 714 | 757 | 748 | 765 | 475 |
| 45° | 574 | 470 | 270 | 456 | 582 | 440 |
| 55° | 291 | 291 | 100 | 303 | 354 | 264 |
| 65° | 88 | 103 | 32 | 133 | 135 | 93 |
| 75° | 14 | 16 | 4 | 27 | 26 | 20 |
| 85° | 4 | 3 | 2 | 4 | 6 | 5 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P244640

CATALOG NUMBER: LD8B20D010 ER8B20940 8LBDW0H

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1045.2 | 1045.2 | 1045.2 | 1045.2 | 1045.2 | 1045.2 | 1045.2 | 1045.2 | 1045.2 | 1045.2 | 1045.2 |
| 2.5° | 1045.8 | 1046.9 | 1046.3 | 1046.3 | 1045.8 | 1046.3 | 1046.3 | 1047.5 | 1047.5 | 1046.3 | 1045.8 |
| 5° | 1043.5 | 1044.7 | 1044.7 | 1043.5 | 1043.5 | 1046.3 | 1044.7 | 1045.8 | 1045.8 | 1045.2 | 1045.2 |
| 7.5° | 1038.5 | 1038.5 | 1040.7 | 1039.1 | 1039.1 | 1040.7 | 1040.2 | 1041.3 | 1042.4 | 1043.0 | 1043.0 |
| 10° | 1027.3 | 1028.4 | 1028.9 | 1028.9 | 1029.5 | 1031.2 | 1032.3 | 1034.6 | 1035.7 | 1036.8 | 1037.4 |
| 12.5° | 1013.2 | 1014.9 | 1015.5 | 1014.9 | 1016.6 | 1018.8 | 1021.7 | 1024.5 | 1026.1 | 1028.4 | 1030.1 |
| 15° | 996.4 | 996.4 | 997.5 | 999.2 | 1000.3 | 1003.7 | 1006.5 | 1009.9 | 1014.4 | 1017.2 | 1020.0 |
| 17.5° | 977.9 | 979.0 | 980.7 | 980.7 | 982.9 | 988.5 | 990.2 | 995.3 | 1000.3 | 1003.1 | 1008.8 |
| 20° | 957.7 | 958.8 | 960.5 | 961.6 | 964.4 | 968.9 | 972.3 | 976.8 | 982.4 | 987.4 | 993.0 |
| 22.5° | 942.0 | 939.7 | 940.9 | 942.0 | 944.8 | 948.7 | 952.6 | 958.2 | 963.9 | 968.9 | 974.5 |
| 25° | 911.7 | 912.2 | 913.9 | 915.0 | 918.4 | 921.8 | 926.3 | 933.0 | 938.1 | 943.7 | 949.8 |
| 27.5° | 870.7 | 871.3 | 874.1 | 874.1 | 876.9 | 882.5 | 885.3 | 890.9 | 897.7 | 903.3 | 910.6 |
| 30° | 824.2 | 825.3 | 825.3 | 827.5 | 829.2 | 832.0 | 834.8 | 840.4 | 843.8 | 848.9 | 859.0 |
| 32.5° | 781.5 | 782.6 | 782.1 | 781.5 | 779.8 | 779.3 | 778.7 | 779.8 | 781.0 | 782.6 | 786.6 |
| 35° | 756.3 | 753.5 | 751.2 | 747.3 | 742.8 | 737.2 | 732.2 | 725.4 | 719.3 | 714.2 | 708.6 |
| 37.5° | 732.2 | 731.6 | 728.2 | 722.6 | 713.6 | 703.5 | 691.8 | 677.2 | 662.6 | 646.9 | 631.7 |
| 40° | 698.5 | 696.8 | 694.0 | 686.2 | 676.0 | 663.7 | 648.0 | 630.0 | 606.5 | 582.4 | 557.7 |
| 42.5° | 641.3 | 641.8 | 638.5 | 632.3 | 622.8 | 611.0 | 594.7 | 575.1 | 549.8 | 521.2 | 489.2 |
| 45° | 574.5 | 574.5 | 573.4 | 568.3 | 561.6 | 552.1 | 539.7 | 523.5 | 498.8 | 469.6 | 435.4 |
| 47.5° | 504.9 | 505.5 | 503.8 | 502.7 | 499.9 | 493.7 | 484.7 | 472.4 | 455.0 | 426.9 | 392.7 |
| 50° | 434.2 | 434.2 | 437.0 | 436.5 | 436.5 | 434.2 | 430.3 | 423.0 | 407.9 | 385.4 | 353.5 |
| 52.5° | 363.6 | 364.7 | 366.4 | 368.6 | 371.4 | 375.9 | 371.4 | 368.0 | 358.5 | 341.1 | 313.6 |
| 55° | 290.6 | 291.7 | 294.5 | 298.5 | 301.8 | 306.3 | 307.4 | 307.4 | 302.4 | 290.6 | 269.9 |
| 57.5° | 228.3 | 226.7 | 228.9 | 232.3 | 236.8 | 241.3 | 244.6 | 248.5 | 248.0 | 240.1 | 223.3 |
| 60° | 171.7 | 172.2 | 173.9 | 177.3 | 180.7 | 184.6 | 189.1 | 192.4 | 194.1 | 190.2 | 179.5 |
| 62.5° | 125.1 | 125.1 | 127.4 | 130.7 | 132.4 | 138.0 | 140.8 | 142.5 | 144.2 | 143.6 | 136.9 |
| 65° | 87.5 | 88.6 | 89.8 | 91.5 | 93.1 | 96.5 | 98.2 | 101.5 | 102.7 | 103.2 | 98.2 |
| 67.5° | 61.7 | 60.0 | 61.2 | 62.3 | 64.0 | 66.2 | 69.6 | 69.6 | 71.2 | 71.2 | 67.9 |
| 70° | 39.3 | 39.3 | 39.8 | 41.5 | 42.6 | 43.2 | 44.3 | 45.4 | 47.1 | 46.6 | 46.6 |
| 72.5° | 26.4 | 25.8 | 26.4 | 26.9 | 27.5 | 29.2 | 29.2 | 29.7 | 30.9 | 31.4 | 29.2 |
| 75° | 13.5 | 14.0 | 15.1 | 14.6 | 16.3 | 15.1 | 15.7 | 17.4 | 16.8 | 15.7 | 15.7 |
| 77.5° | 11.2 | 11.2 | 11.2 | 10.7 | 11.8 | 11.8 | 11.2 | 12.3 | 11.8 | 11.8 | 11.2 |
| 80° | 7.9 | 8.4 | 7.9 | 7.3 | 7.9 | 7.3 | 7.3 | 7.3 | 7.3 | 7.3 | 6.7 |
| 82.5° | 6.2 | 5.1 | 5.6 | 5.1 | 5.6 | 5.6 | 5.1 | 4.5 | 4.5 | 5.1 | 4.5 |
| 85° | 4.5 | 3.4 | 3.9 | 3.9 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 | 2.8 | 2.8 |
| 87.5° | 2.8 | 1.7 | 1.7 | 1.7 | 2.2 | 2.2 | 2.2 | 1.7 | 2.2 | 2.2 | 1.1 |
| 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: P244640

CATALOG NUMBER: LD8B20D010 ER8B20940 8LBDW0H

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° | 95° | 100° | 105° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1045.2 | 1045.2 | 1045.2 | 1045.2 | 1045.2 | 1045.2 | 1045.2 | 1045.2 | 1045.2 | 1045.2 | 1045.2 |
| 2.5° | 1046.9 | 1046.3 | 1047.5 | 1046.9 | 1046.9 | 1046.3 | 1046.9 | 1046.3 | 1047.5 | 1045.2 | 1045.8 |
| 5° | 1046.9 | 1045.8 | 1046.3 | 1046.9 | 1047.5 | 1046.3 | 1046.3 | 1046.3 | 1047.5 | 1046.3 | 1046.9 |
| 7.5° | 1044.7 | 1044.1 | 1045.8 | 1046.9 | 1046.3 | 1045.8 | 1046.9 | 1046.3 | 1047.5 | 1046.9 | 1048.0 |
| 10° | 1040.2 | 1040.7 | 1041.9 | 1043.5 | 1044.1 | 1044.7 | 1045.8 | 1045.8 | 1047.5 | 1045.2 | 1046.3 |
| 12.5° | 1033.4 | 1035.7 | 1038.5 | 1039.6 | 1041.9 | 1041.9 | 1043.0 | 1043.5 | 1044.7 | 1044.1 | 1045.8 |
| 15° | 1025.0 | 1027.8 | 1031.2 | 1034.0 | 1036.8 | 1038.5 | 1040.2 | 1040.7 | 1042.4 | 1040.7 | 1041.3 |
| 17.5° | 1014.9 | 1018.3 | 1023.3 | 1026.7 | 1031.2 | 1032.9 | 1035.1 | 1036.2 | 1037.9 | 1036.8 | 1037.4 |
| 20° | 1000.9 | 1004.8 | 1010.4 | 1015.5 | 1018.3 | 1022.2 | 1025.0 | 1026.7 | 1027.8 | 1026.7 | 1027.3 |
| 22.5° | 981.3 | 986.9 | 994.2 | 998.1 | 1003.7 | 1007.1 | 1007.6 | 1011.6 | 1014.4 | 1011.6 | 1012.7 |
| 25° | 958.2 | 963.9 | 969.5 | 977.9 | 982.9 | 986.9 | 990.8 | 991.4 | 994.2 | 993.6 | 993.0 |
| 27.5° | 920.1 | 927.4 | 936.9 | 943.7 | 950.4 | 956.6 | 961.1 | 962.2 | 965.0 | 963.9 | 964.4 |
| 30° | 867.9 | 875.8 | 884.8 | 895.4 | 905.0 | 911.1 | 916.7 | 920.7 | 923.5 | 921.8 | 921.2 |
| 32.5° | 793.9 | 801.7 | 811.3 | 821.9 | 833.1 | 842.1 | 848.9 | 853.9 | 857.3 | 856.1 | 853.3 |
| 35° | 709.2 | 711.4 | 717.6 | 726.0 | 735.5 | 745.1 | 751.2 | 756.8 | 760.8 | 761.9 | 761.9 |
| 37.5° | 622.2 | 614.9 | 610.4 | 610.4 | 616.0 | 619.9 | 625.6 | 628.9 | 635.1 | 637.3 | 639.0 |
| 40° | 538.0 | 521.2 | 505.5 | 493.7 | 485.9 | 485.3 | 485.3 | 487.0 | 492.6 | 499.9 | 506.6 |
| 42.5° | 462.9 | 435.9 | 411.8 | 389.9 | 374.2 | 365.2 | 361.3 | 361.9 | 366.4 | 373.1 | 384.3 |
| 45° | 402.8 | 369.2 | 338.9 | 312.5 | 291.2 | 277.1 | 270.4 | 269.9 | 273.2 | 281.1 | 293.4 |
| 47.5° | 356.3 | 320.4 | 286.1 | 255.8 | 232.8 | 217.7 | 209.8 | 207.6 | 209.8 | 217.1 | 231.7 |
| 50° | 317.5 | 280.5 | 245.2 | 213.8 | 189.1 | 173.4 | 166.1 | 163.3 | 166.1 | 172.2 | 186.8 |
| 52.5° | 281.6 | 243.5 | 210.4 | 180.1 | 153.7 | 140.3 | 132.4 | 130.7 | 132.4 | 139.7 | 151.5 |
| 55° | 240.1 | 207.6 | 175.0 | 144.7 | 121.8 | 108.3 | 102.1 | 100.4 | 102.1 | 108.8 | 121.2 |
| 57.5° | 199.2 | 171.1 | 142.5 | 115.0 | 95.4 | 83.6 | 78.0 | 75.7 | 79.7 | 84.2 | 98.7 |
| 60° | 161.0 | 138.6 | 114.4 | 90.3 | 74.1 | 63.4 | 58.9 | 58.3 | 59.5 | 65.1 | 75.2 |
| 62.5° | 126.2 | 107.7 | 88.6 | 69.0 | 55.5 | 51.1 | 45.4 | 44.9 | 46.0 | 49.4 | 57.2 |
| 65° | 90.9 | 79.1 | 64.5 | 50.5 | 39.8 | 33.7 | 31.4 | 32.0 | 33.1 | 35.3 | 42.6 |
| 67.5° | 63.4 | 55.0 | 44.9 | 35.3 | 27.5 | 24.7 | 22.4 | 21.9 | 22.4 | 26.4 | 30.3 |
| 70° | 42.6 | 37.6 | 30.3 | 26.9 | 19.1 | 15.1 | 15.7 | 14.0 | 16.3 | 16.3 | 19.6 |
| 72.5° | 28.0 | 24.7 | 20.2 | 15.7 | 13.5 | 10.7 | 10.7 | 10.1 | 11.2 | 11.8 | 14.6 |
| 75° | 14.6 | 11.2 | 11.2 | 7.9 | 5.6 | 2.8 | 5.1 | 4.5 | 3.9 | 4.5 | 5.6 |
| 77.5° | 10.1 | 8.4 | 7.9 | 6.2 | 5.6 | 4.5 | 4.5 | 4.5 | 4.5 | 5.1 | 5.6 |
| 80° | 6.2 | 6.2 | 4.5 | 3.9 | 3.4 | 2.8 | 3.4 | 3.4 | 3.4 | 3.4 | 3.9 |
| 82.5° | 3.9 | 3.4 | 3.4 | 2.8 | 2.8 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 3.4 |
| 85° | 3.4 | 2.2 | 2.2 | 1.7 | 2.2 | 3.9 | 1.7 | 2.2 | 2.2 | 2.2 | 1.7 |
| 87.5° | 1.1 | 1.7 | 1.7 | 1.7 | 1.1 | 0.6 | 1.1 | 1.7 | 1.7 | 2.8 | 2.2 |
| 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: P244640

CATALOG NUMBER: LD8B20D010 ER8B20940 8LBDW0H

CANDELA DISTRIBUTION (continued):

| | 110° | 115° | 120° | 125° | 130° | 135° | 140° | 145° | 150° | 155° | 160° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1045.2 | 1045.2 | 1045.2 | 1045.2 | 1045.2 | 1045.2 | 1045.2 | 1045.2 | 1045.2 | 1045.2 | 1045.2 |
| 2.5° | 1046.9 | 1047.5 | 1047.5 | 1046.9 | 1046.9 | 1045.8 | 1048.0 | 1046.3 | 1046.9 | 1049.1 | 1047.5 |
| 5° | 1048.0 | 1048.6 | 1048.6 | 1048.0 | 1048.0 | 1048.0 | 1048.6 | 1048.6 | 1048.0 | 1047.5 | 1048.6 |
| 7.5° | 1050.3 | 1049.7 | 1049.7 | 1048.6 | 1048.6 | 1047.5 | 1048.6 | 1046.9 | 1048.0 | 1046.9 | 1048.6 |
| 10° | 1047.5 | 1048.0 | 1047.5 | 1046.9 | 1046.9 | 1046.3 | 1046.3 | 1044.7 | 1045.2 | 1043.5 | 1044.7 |
| 12.5° | 1045.8 | 1045.2 | 1045.2 | 1044.1 | 1043.0 | 1041.9 | 1041.3 | 1039.6 | 1039.6 | 1035.7 | 1037.4 |
| 15° | 1041.3 | 1041.9 | 1040.2 | 1037.9 | 1036.8 | 1034.0 | 1032.9 | 1030.6 | 1028.4 | 1025.6 | 1026.1 |
| 17.5° | 1037.4 | 1035.7 | 1033.4 | 1031.2 | 1026.7 | 1024.5 | 1022.2 | 1018.8 | 1017.7 | 1014.4 | 1013.2 |
| 20° | 1025.6 | 1024.5 | 1021.7 | 1017.7 | 1014.9 | 1009.9 | 1007.6 | 1004.3 | 1001.5 | 998.1 | 996.4 |
| 22.5° | 1010.4 | 1009.3 | 1005.9 | 1002.0 | 997.5 | 995.3 | 993.0 | 986.9 | 984.1 | 980.7 | 980.1 |
| 25° | 991.4 | 989.7 | 986.3 | 981.8 | 979.6 | 973.4 | 971.2 | 966.7 | 965.6 | 962.2 | 961.6 |
| 27.5° | 962.2 | 959.9 | 956.0 | 950.4 | 946.5 | 942.5 | 940.3 | 936.9 | 935.8 | 932.4 | 931.9 |
| 30° | 918.4 | 915.6 | 907.8 | 905.5 | 898.8 | 894.9 | 894.9 | 890.4 | 890.9 | 888.7 | 888.7 |
| 32.5° | 849.4 | 844.9 | 838.7 | 834.3 | 829.8 | 827.5 | 827.5 | 825.8 | 827.0 | 827.0 | 828.1 |
| 35° | 758.0 | 751.8 | 748.4 | 745.6 | 745.6 | 747.9 | 754.6 | 756.3 | 759.7 | 762.5 | 764.7 |
| 37.5° | 640.7 | 640.2 | 644.1 | 647.4 | 655.9 | 665.4 | 677.2 | 687.3 | 696.8 | 703.5 | 710.3 |
| 40° | 513.9 | 527.9 | 539.2 | 554.9 | 567.8 | 586.3 | 607.6 | 625.0 | 641.3 | 653.1 | 665.4 |
| 42.5° | 401.1 | 419.1 | 442.7 | 465.7 | 488.7 | 513.9 | 542.0 | 566.1 | 587.4 | 603.7 | 616.6 |
| 45° | 312.5 | 337.2 | 365.8 | 395.0 | 424.7 | 456.1 | 485.3 | 510.0 | 532.4 | 549.3 | 562.2 |
| 47.5° | 251.9 | 278.8 | 311.4 | 343.4 | 377.0 | 410.1 | 442.7 | 464.0 | 482.5 | 496.0 | 507.7 |
| 50° | 208.1 | 236.8 | 271.0 | 307.4 | 341.1 | 374.2 | 402.3 | 423.0 | 438.2 | 450.0 | 457.2 |
| 52.5° | 173.9 | 204.2 | 240.7 | 277.1 | 310.8 | 341.1 | 366.4 | 382.1 | 394.4 | 402.8 | 409.6 |
| 55° | 143.6 | 172.8 | 207.0 | 241.3 | 274.3 | 303.0 | 323.7 | 335.5 | 345.0 | 350.1 | 354.0 |
| 57.5° | 117.3 | 144.2 | 175.6 | 207.0 | 235.6 | 259.2 | 275.5 | 287.3 | 291.7 | 295.7 | 295.1 |
| 60° | 92.0 | 117.3 | 145.9 | 172.8 | 197.5 | 216.6 | 228.3 | 235.1 | 238.4 | 240.1 | 239.0 |
| 62.5° | 72.4 | 95.4 | 117.3 | 140.8 | 158.8 | 175.0 | 186.3 | 186.3 | 187.9 | 188.5 | 190.2 |
| 65° | 53.9 | 71.2 | 90.3 | 107.7 | 122.3 | 133.0 | 139.1 | 140.8 | 143.1 | 142.5 | 141.4 |
| 67.5° | 39.8 | 52.7 | 66.8 | 79.7 | 89.8 | 96.5 | 101.0 | 104.9 | 104.4 | 103.2 | 102.7 |
| 70° | 27.5 | 35.9 | 48.3 | 56.1 | 63.4 | 70.1 | 71.2 | 71.8 | 72.4 | 72.9 | 71.8 |
| 72.5° | 19.1 | 25.2 | 32.0 | 38.7 | 43.2 | 46.0 | 48.8 | 49.4 | 49.4 | 49.4 | 48.8 |
| 75° | 9.5 | 12.9 | 19.1 | 21.9 | 25.8 | 26.9 | 29.2 | 29.2 | 30.9 | 28.6 | 28.0 |
| 77.5° | 8.4 | 10.1 | 13.5 | 15.7 | 17.4 | 19.1 | 19.6 | 21.3 | 20.8 | 19.6 | 20.2 |
| 80° | 5.1 | 6.2 | 8.4 | 9.5 | 11.8 | 12.3 | 12.9 | 13.5 | 12.9 | 13.5 | 13.5 |
| 82.5° | 3.9 | 4.5 | 5.6 | 5.6 | 7.3 | 7.3 | 7.9 | 7.9 | 8.4 | 8.4 | 8.4 |
| 85° | 2.2 | 3.9 | 3.4 | 6.7 | 4.5 | 4.5 | 5.6 | 6.7 | 5.6 | 5.6 | 6.7 |
| 87.5° | 2.2 | 2.2 | 1.7 | 2.2 | 2.2 | 2.2 | 2.8 | 3.4 | 3.4 | 3.9 | 3.4 |
| 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: P244640

CATALOG NUMBER: LD8B20D010 ER8B20940 8LBDW0H

CANDELA DISTRIBUTION (continued):

| | 165° | 170° | 175° | 180° |
|-------|--------|--------|--------|--------|
| 0° | 1045.2 | 1045.2 | 1045.2 | 1045.2 |
| 2.5° | 1046.9 | 1048.0 | 1046.3 | 1045.8 |
| 5° | 1048.6 | 1048.6 | 1047.5 | 1047.5 |
| 7.5° | 1048.6 | 1048.6 | 1046.9 | 1045.8 |
| 10° | 1044.1 | 1044.1 | 1042.4 | 1041.3 |
| 12.5° | 1035.7 | 1035.7 | 1035.1 | 1033.4 |
| 15° | 1025.0 | 1025.0 | 1022.8 | 1021.1 |
| 17.5° | 1010.4 | 1011.6 | 1008.8 | 1008.8 |
| 20° | 994.7 | 994.2 | 991.9 | 990.8 |
| 22.5° | 978.5 | 977.3 | 976.8 | 973.4 |
| 25° | 961.1 | 959.9 | 958.2 | 956.6 |
| 27.5° | 931.3 | 930.8 | 929.1 | 926.8 |
| 30° | 885.9 | 885.3 | 883.1 | 883.1 |
| 32.5° | 827.0 | 826.4 | 824.2 | 824.7 |
| 35° | 765.8 | 768.1 | 766.9 | 764.7 |
| 37.5° | 714.8 | 716.4 | 717.6 | 716.4 |
| 40° | 672.1 | 677.2 | 677.7 | 678.9 |
| 42.5° | 626.7 | 633.4 | 635.7 | 636.8 |
| 45° | 572.3 | 578.4 | 583.5 | 582.4 |
| 47.5° | 516.7 | 521.2 | 525.7 | 522.3 |
| 50° | 463.4 | 466.2 | 467.9 | 467.9 |
| 52.5° | 412.9 | 412.9 | 412.4 | 412.9 |
| 55° | 355.1 | 355.1 | 352.9 | 354.0 |
| 57.5° | 294.5 | 295.7 | 294.0 | 291.2 |
| 60° | 238.4 | 235.6 | 234.5 | 232.8 |
| 62.5° | 185.7 | 185.7 | 181.8 | 186.8 |
| 65° | 139.1 | 137.5 | 135.8 | 135.2 |
| 67.5° | 101.0 | 100.4 | 98.7 | 98.2 |
| 70° | 71.2 | 69.0 | 68.4 | 67.3 |
| 72.5° | 47.7 | 47.7 | 46.6 | 46.6 |
| 75° | 29.2 | 26.4 | 25.8 | 26.4 |
| 77.5° | 20.2 | 19.6 | 19.6 | 19.1 |
| 80° | 13.5 | 12.9 | 14.0 | 12.3 |
| 82.5° | 8.4 | 9.0 | 8.4 | 9.0 |
| 85° | 5.6 | 6.7 | 6.2 | 6.2 |
| 87.5° | 3.4 | 3.4 | 3.4 | 3.4 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)