

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: P245876

Luminaire Tested: **LSR8B20D010 EC8B209727 8LBSW0GPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P245876
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13958)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B20D010 EC8B209727 8LBSW0GPH
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
97 CRI 2700 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1414.0 lumens
Efficiency: N/A
Efficacy: 66.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.23 / 1.15
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

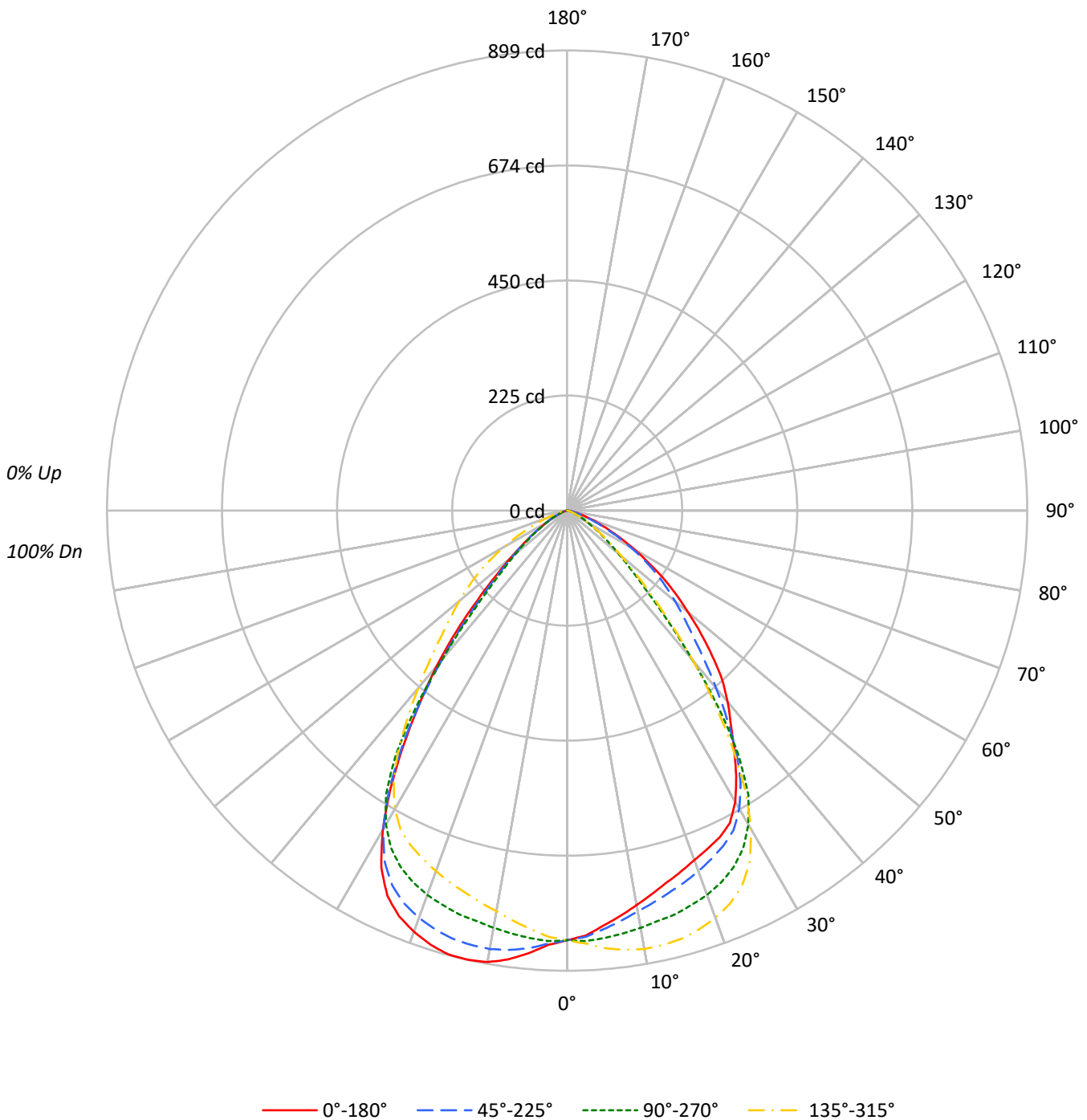
Input Watts (W): 21.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P245876

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Luminous Intensity Polar Plot





TEST NUMBER: P245876

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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 | 0 |
| RCR | | | | | | | | | | | | | | | | | | |
| 0 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |
| 1 | 112 | 109 | 106 | 103 | 109 | 106 | 104 | 101 | 102 | 100 | 98 | 99 | 97 | 95 | 95 | 94 | 92 | 90 |
| 2 | 105 | 99 | 94 | 89 | 102 | 97 | 92 | 88 | 93 | 90 | 86 | 90 | 87 | 84 | 87 | 85 | 83 | 81 |
| 3 | 98 | 90 | 83 | 78 | 95 | 88 | 82 | 78 | 85 | 80 | 76 | 83 | 79 | 75 | 80 | 77 | 74 | 72 |
| 4 | 91 | 82 | 75 | 70 | 89 | 80 | 74 | 69 | 78 | 73 | 68 | 76 | 71 | 67 | 74 | 70 | 67 | 65 |
| 5 | 85 | 75 | 68 | 62 | 83 | 74 | 67 | 62 | 72 | 66 | 61 | 70 | 65 | 61 | 68 | 64 | 60 | 58 |
| 6 | 80 | 69 | 61 | 56 | 78 | 68 | 61 | 56 | 66 | 60 | 55 | 65 | 59 | 55 | 63 | 58 | 55 | 53 |
| 7 | 75 | 63 | 56 | 51 | 73 | 63 | 56 | 51 | 61 | 55 | 50 | 60 | 54 | 50 | 59 | 54 | 50 | 48 |
| 8 | 70 | 59 | 51 | 46 | 69 | 58 | 51 | 46 | 57 | 50 | 46 | 56 | 50 | 46 | 55 | 49 | 46 | 44 |
| 9 | 66 | 54 | 47 | 42 | 65 | 54 | 47 | 42 | 53 | 47 | 42 | 52 | 46 | 42 | 51 | 46 | 42 | 40 |
| 10 | 62 | 51 | 44 | 39 | 61 | 50 | 44 | 39 | 49 | 43 | 39 | 48 | 43 | 39 | 48 | 42 | 39 | 37 |

AVERAGE LUMINANCE (cd/sqm):

| | | | | |
|-----|--|-----|------|------|
| | 0° | 90° | 180° | 270° |
| 0° | Luminaire represents a point source (luminous area is zero). | | | |
| 5° | No luminance values can be calculated. | | | |
| 10° | | | | |
| 15° | | | | |
| 20° | | | | |
| 25° | | | | |
| 30° | | | | |
| 35° | | | | |
| 40° | | | | |
| 45° | | | | |
| 50° | | | | |
| 55° | | | | |
| 60° | | | | |
| 65° | | | | |
| 70° | | | | |
| 75° | | | | |
| 80° | | | | |
| 85° | | | | |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 79.9 | 5.7 |
| 10°-20° | 231.4 | 16.4 |
| 20°-30° | 350.3 | 24.8 |
| 30°-40° | 351.1 | 24.8 |
| 40°-50° | 220.5 | 15.6 |
| 50°-60° | 117.5 | 8.3 |
| 60°-70° | 48.3 | 3.4 |
| 70°-80° | 12.8 | 0.9 |
| 80°-90° | 2.2 | 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° | 661.6 | 46.8 |
| 0°-40° | 1012.8 | 71.6 |
| 0°-60° | 1350.8 | 95.5 |
| 0°-90° | 1414.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 1414.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 90° | 180° | 270° | 360° | Flux |
|-----|-----|-----|------|------|------|------|
| 0° | 839 | 839 | 839 | 839 | 839 | |
| 5° | 814 | 838 | 868 | 838 | 814 | 77 |
| 15° | 752 | 816 | 898 | 816 | 752 | 213 |
| 25° | 705 | 769 | 831 | 769 | 705 | 323 |
| 35° | 568 | 584 | 554 | 584 | 568 | 356 |
| 45° | 400 | 214 | 248 | 214 | 400 | 308 |
| 55° | 228 | 79 | 84 | 79 | 228 | 203 |
| 65° | 91 | 24 | 22 | 24 | 91 | 94 |
| 75° | 25 | 5 | 4 | 5 | 25 | 29 |
| 85° | 5 | 0 | 0 | 0 | 5 | 6 |
| 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° | 839.4 | 839.4 | 839.4 | 839.4 | 839.4 | 839.4 | 839.4 | 839.4 | 839.4 | 839.4 | 839.4 |
| 2.5° | 830.8 | 830.0 | 829.6 | 830.4 | 830.8 | 832.5 | 832.1 | 832.9 | 832.9 | 833.3 | 834.1 |
| 5° | 814.0 | 813.6 | 814.0 | 814.0 | 815.7 | 817.3 | 816.9 | 818.1 | 818.9 | 821.0 | 821.8 |
| 7.5° | 798.5 | 798.5 | 798.0 | 799.7 | 800.5 | 803.0 | 802.5 | 804.6 | 805.8 | 807.9 | 810.7 |
| 10° | 782.5 | 782.5 | 782.9 | 784.1 | 784.5 | 788.2 | 788.2 | 791.1 | 792.7 | 794.8 | 798.5 |
| 12.5° | 766.9 | 766.9 | 769.4 | 768.5 | 770.2 | 773.0 | 774.3 | 777.1 | 779.6 | 783.7 | 787.4 |
| 15° | 752.1 | 752.1 | 753.0 | 755.0 | 756.2 | 759.9 | 762.0 | 765.3 | 768.1 | 772.2 | 777.6 |
| 17.5° | 739.4 | 739.0 | 739.4 | 741.9 | 744.4 | 747.6 | 749.3 | 753.4 | 756.2 | 761.6 | 766.5 |
| 20° | 726.7 | 727.6 | 727.6 | 729.6 | 731.2 | 735.3 | 737.0 | 741.5 | 744.8 | 749.7 | 755.4 |
| 22.5° | 715.7 | 715.3 | 715.3 | 718.1 | 719.4 | 723.0 | 724.7 | 728.8 | 732.5 | 736.6 | 741.9 |
| 25° | 704.6 | 703.8 | 705.4 | 705.8 | 706.6 | 710.7 | 712.0 | 714.8 | 718.5 | 722.2 | 727.6 |
| 27.5° | 688.2 | 687.4 | 687.8 | 689.4 | 690.7 | 693.9 | 694.8 | 697.6 | 700.5 | 703.8 | 708.3 |
| 30° | 656.6 | 655.8 | 655.4 | 658.3 | 659.5 | 662.0 | 663.2 | 668.1 | 668.9 | 672.6 | 675.9 |
| 32.5° | 614.8 | 614.4 | 615.2 | 617.7 | 618.9 | 622.2 | 623.8 | 626.7 | 628.8 | 630.8 | 634.1 |
| 35° | 568.1 | 567.3 | 568.1 | 570.6 | 570.6 | 573.4 | 574.7 | 575.9 | 575.5 | 575.9 | 575.1 |
| 37.5° | 524.7 | 524.2 | 524.7 | 525.9 | 524.7 | 525.9 | 524.7 | 522.2 | 517.7 | 512.8 | 507.8 |
| 40° | 487.8 | 488.2 | 485.7 | 487.4 | 482.8 | 482.0 | 477.5 | 471.4 | 462.4 | 452.5 | 438.6 |
| 42.5° | 448.4 | 447.2 | 445.6 | 446.4 | 442.7 | 439.8 | 432.4 | 424.6 | 413.2 | 396.8 | 380.0 |
| 45° | 400.1 | 399.6 | 398.8 | 398.4 | 396.0 | 393.1 | 386.9 | 377.9 | 365.2 | 348.4 | 328.3 |
| 47.5° | 352.9 | 351.7 | 351.7 | 352.1 | 349.2 | 348.8 | 343.9 | 336.1 | 325.0 | 308.6 | 287.7 |
| 50° | 307.8 | 307.4 | 308.2 | 309.9 | 307.8 | 307.0 | 303.7 | 298.4 | 288.6 | 274.6 | 254.9 |
| 52.5° | 267.2 | 266.8 | 267.7 | 269.7 | 268.9 | 269.7 | 266.4 | 262.3 | 255.8 | 242.2 | 225.0 |
| 55° | 227.5 | 227.5 | 227.5 | 229.9 | 229.9 | 229.9 | 228.3 | 225.9 | 219.7 | 209.9 | 193.9 |
| 57.5° | 186.1 | 186.5 | 189.0 | 189.4 | 189.0 | 189.8 | 189.4 | 186.9 | 182.8 | 175.8 | 163.6 |
| 60° | 151.3 | 151.3 | 152.5 | 153.7 | 153.3 | 153.7 | 153.7 | 152.5 | 148.4 | 142.6 | 132.8 |
| 62.5° | 119.7 | 120.9 | 120.1 | 120.9 | 122.6 | 120.9 | 120.1 | 119.3 | 116.4 | 112.7 | 104.5 |
| 65° | 90.6 | 91.4 | 91.4 | 91.8 | 91.0 | 91.4 | 89.8 | 88.5 | 86.9 | 82.8 | 77.5 |
| 67.5° | 68.9 | 68.9 | 68.9 | 68.9 | 68.4 | 68.0 | 67.6 | 66.4 | 63.5 | 61.9 | 56.1 |
| 70° | 52.9 | 50.4 | 50.4 | 50.4 | 50.4 | 50.8 | 49.6 | 48.0 | 47.1 | 44.3 | 40.2 |
| 72.5° | 35.2 | 36.1 | 35.2 | 35.2 | 34.4 | 34.8 | 33.2 | 32.4 | 31.6 | 29.9 | 27.5 |
| 75° | 25.4 | 23.4 | 24.2 | 24.6 | 23.4 | 24.2 | 22.5 | 20.9 | 20.9 | 19.7 | 18.4 |
| 77.5° | 16.4 | 16.0 | 16.4 | 16.8 | 16.4 | 16.0 | 15.2 | 14.3 | 14.3 | 13.9 | 12.7 |
| 80° | 11.9 | 11.5 | 11.5 | 11.5 | 11.1 | 11.5 | 10.7 | 10.7 | 9.8 | 9.4 | 8.6 |
| 82.5° | 7.8 | 7.8 | 7.4 | 7.8 | 7.4 | 7.8 | 6.6 | 6.6 | 6.6 | 6.1 | 5.3 |
| 85° | 5.3 | 4.5 | 4.5 | 4.9 | 4.1 | 4.9 | 4.5 | 4.1 | 3.7 | 3.7 | 3.3 |
| 87.5° | 2.5 | 2.9 | 2.5 | 2.9 | 2.5 | 2.5 | 2.9 | 2.5 | 2.5 | 1.6 | 1.6 |
| 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° | 839.4 | 839.4 | 839.4 | 839.4 | 839.4 | 839.4 | 839.4 | 839.4 | 839.4 | 839.4 | 839.4 |
| 2.5° | 835.3 | 835.8 | 835.8 | 837.4 | 838.2 | 838.6 | 838.6 | 841.9 | 840.7 | 841.5 | 842.3 |
| 5° | 823.5 | 825.9 | 826.7 | 826.7 | 831.2 | 832.9 | 834.5 | 838.2 | 838.6 | 841.1 | 844.0 |
| 7.5° | 812.0 | 814.8 | 816.5 | 820.2 | 823.0 | 825.9 | 830.8 | 833.3 | 835.8 | 839.0 | 842.7 |
| 10° | 800.9 | 804.2 | 807.5 | 810.3 | 814.8 | 818.5 | 821.8 | 827.6 | 830.4 | 834.9 | 839.9 |
| 12.5° | 790.3 | 794.8 | 797.6 | 802.5 | 807.5 | 810.7 | 815.7 | 821.0 | 825.5 | 830.0 | 835.8 |
| 15° | 780.8 | 786.2 | 789.4 | 794.8 | 800.1 | 804.6 | 809.9 | 816.5 | 819.8 | 825.1 | 830.4 |
| 17.5° | 770.6 | 776.3 | 780.4 | 785.3 | 791.9 | 796.8 | 801.3 | 807.9 | 812.0 | 817.7 | 823.9 |
| 20° | 759.9 | 765.7 | 770.6 | 775.5 | 782.1 | 787.0 | 792.3 | 798.9 | 803.4 | 809.1 | 814.0 |
| 22.5° | 747.2 | 752.6 | 757.9 | 763.6 | 770.2 | 774.3 | 780.4 | 786.2 | 791.1 | 796.4 | 801.3 |
| 25° | 730.8 | 737.4 | 741.5 | 746.8 | 752.1 | 756.6 | 763.2 | 768.9 | 773.0 | 778.0 | 782.5 |
| 27.5° | 711.6 | 716.5 | 719.8 | 724.3 | 729.6 | 733.7 | 738.6 | 744.4 | 748.5 | 753.0 | 756.2 |
| 30° | 678.8 | 683.3 | 686.2 | 689.4 | 694.8 | 698.5 | 702.6 | 707.9 | 710.7 | 714.0 | 716.9 |
| 32.5° | 635.7 | 639.4 | 641.1 | 643.5 | 647.2 | 650.9 | 654.2 | 658.7 | 659.9 | 662.0 | 662.0 |
| 35° | 573.4 | 574.2 | 573.8 | 574.7 | 576.3 | 578.3 | 581.2 | 584.1 | 585.7 | 585.7 | 584.5 |
| 37.5° | 500.5 | 495.6 | 490.2 | 486.1 | 484.9 | 484.1 | 485.7 | 486.9 | 488.6 | 489.4 | 487.4 |
| 40° | 424.6 | 413.6 | 401.7 | 391.0 | 383.7 | 380.4 | 379.1 | 380.0 | 380.0 | 382.8 | 382.8 |
| 42.5° | 359.5 | 342.3 | 324.6 | 308.6 | 298.0 | 289.8 | 286.1 | 286.1 | 286.5 | 288.6 | 289.8 |
| 45° | 305.4 | 283.6 | 263.1 | 245.5 | 230.8 | 220.1 | 215.2 | 214.0 | 213.6 | 214.4 | 217.2 |
| 47.5° | 264.0 | 241.4 | 220.1 | 198.4 | 182.8 | 172.2 | 167.6 | 166.0 | 164.4 | 166.0 | 166.4 |
| 50° | 231.6 | 208.2 | 185.7 | 164.0 | 147.6 | 138.1 | 132.4 | 129.9 | 129.5 | 129.5 | 130.3 |
| 52.5° | 202.1 | 180.4 | 157.8 | 135.7 | 118.5 | 109.4 | 104.1 | 102.9 | 101.2 | 102.9 | 102.9 |
| 55° | 174.2 | 152.5 | 130.3 | 109.4 | 95.1 | 85.7 | 80.7 | 79.1 | 78.3 | 79.5 | 79.5 |
| 57.5° | 143.9 | 125.4 | 104.9 | 86.1 | 71.7 | 65.2 | 61.5 | 59.4 | 59.0 | 59.8 | 59.0 |
| 60° | 118.0 | 102.5 | 84.8 | 67.6 | 56.6 | 49.6 | 46.7 | 45.9 | 45.1 | 45.9 | 45.9 |
| 62.5° | 93.4 | 80.3 | 66.0 | 52.9 | 43.4 | 38.5 | 35.2 | 35.2 | 34.8 | 34.8 | 35.2 |
| 65° | 69.3 | 59.0 | 48.8 | 37.7 | 30.3 | 26.6 | 24.2 | 24.2 | 23.8 | 24.2 | 23.8 |
| 67.5° | 50.4 | 43.4 | 35.2 | 27.5 | 21.7 | 19.7 | 18.0 | 16.8 | 17.6 | 16.8 | 16.4 |
| 70° | 36.9 | 31.1 | 25.4 | 20.9 | 16.8 | 14.8 | 13.5 | 13.1 | 12.3 | 12.3 | 12.3 |
| 72.5° | 24.6 | 20.9 | 17.2 | 13.5 | 11.1 | 9.0 | 8.6 | 7.8 | 7.0 | 7.4 | 8.2 |
| 75° | 16.4 | 13.9 | 12.3 | 9.8 | 7.4 | 7.4 | 4.9 | 4.9 | 4.1 | 4.9 | 3.7 |
| 77.5° | 11.5 | 9.4 | 7.4 | 6.1 | 4.9 | 4.5 | 3.3 | 3.3 | 2.9 | 2.9 | 2.9 |
| 80° | 8.2 | 7.0 | 5.3 | 4.5 | 3.3 | 3.3 | 2.9 | 2.5 | 2.0 | 2.0 | 2.5 |
| 82.5° | 4.9 | 3.7 | 3.7 | 3.3 | 2.0 | 1.6 | 1.2 | 1.6 | 0.8 | 0.8 | 0.8 |
| 85° | 2.9 | 2.5 | 2.0 | 1.2 | 0.8 | 0.8 | 0.4 | 0.0 | 0.4 | 0.4 | 0.0 |
| 87.5° | 1.6 | 0.8 | 0.8 | 0.4 | 0.0 | 0.4 | 0.4 | 0.0 | 0.0 | 0.0 | 0.8 |
| 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):

| | 110° | 115° | 120° | 125° | 130° | 135° | 140° | 145° | 150° | 155° | 160° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 839.4 | 839.4 | 839.4 | 839.4 | 839.4 | 839.4 | 839.4 | 839.4 | 839.4 | 839.4 | 839.4 |
| 2.5° | 844.4 | 844.0 | 844.8 | 844.8 | 847.2 | 846.8 | 848.1 | 848.1 | 847.2 | 847.6 | 849.3 |
| 5° | 847.2 | 848.5 | 850.9 | 853.0 | 856.7 | 858.3 | 860.4 | 862.4 | 862.8 | 864.0 | 865.3 |
| 7.5° | 847.2 | 851.3 | 854.2 | 857.9 | 862.8 | 865.7 | 870.2 | 873.9 | 875.5 | 877.6 | 880.0 |
| 10° | 845.6 | 849.7 | 855.0 | 859.1 | 865.3 | 869.8 | 874.3 | 880.0 | 882.5 | 885.8 | 889.0 |
| 12.5° | 842.3 | 846.8 | 852.6 | 857.9 | 864.9 | 869.0 | 874.7 | 880.0 | 883.7 | 888.2 | 891.9 |
| 15° | 837.4 | 842.7 | 848.1 | 853.4 | 860.8 | 865.7 | 871.0 | 877.2 | 880.8 | 885.8 | 889.0 |
| 17.5° | 829.6 | 835.3 | 840.3 | 845.2 | 852.2 | 857.9 | 862.8 | 868.5 | 872.2 | 876.3 | 880.8 |
| 20° | 820.2 | 825.5 | 830.8 | 834.9 | 841.9 | 846.8 | 852.2 | 857.5 | 860.4 | 861.2 | 868.1 |
| 22.5° | 808.3 | 812.0 | 816.1 | 822.6 | 826.7 | 831.2 | 836.2 | 841.1 | 844.0 | 848.5 | 850.9 |
| 25° | 788.6 | 792.3 | 796.8 | 799.7 | 804.6 | 808.3 | 813.2 | 818.5 | 820.2 | 823.5 | 825.9 |
| 27.5° | 761.2 | 763.2 | 765.3 | 767.7 | 770.6 | 772.6 | 775.5 | 778.0 | 779.6 | 781.2 | 782.9 |
| 30° | 717.7 | 717.7 | 717.7 | 716.1 | 717.3 | 718.5 | 718.9 | 718.5 | 718.5 | 718.1 | 718.1 |
| 32.5° | 660.3 | 657.1 | 653.4 | 650.1 | 648.9 | 647.2 | 646.4 | 645.2 | 643.1 | 641.9 | 642.3 |
| 35° | 582.9 | 575.5 | 571.0 | 566.9 | 563.6 | 561.1 | 559.9 | 558.7 | 558.3 | 556.6 | 555.0 |
| 37.5° | 486.1 | 480.8 | 477.5 | 475.1 | 472.2 | 469.7 | 470.1 | 470.6 | 471.8 | 471.0 | 471.4 |
| 40° | 383.7 | 382.4 | 383.7 | 380.8 | 380.0 | 380.8 | 382.8 | 385.7 | 387.3 | 389.0 | 391.9 |
| 42.5° | 291.8 | 293.9 | 296.8 | 296.8 | 298.0 | 299.6 | 302.1 | 306.6 | 309.0 | 311.9 | 315.2 |
| 45° | 219.7 | 222.2 | 225.9 | 227.1 | 227.9 | 229.9 | 232.8 | 236.5 | 238.1 | 240.6 | 243.5 |
| 47.5° | 169.3 | 170.9 | 173.0 | 175.0 | 177.1 | 177.9 | 180.8 | 180.8 | 182.8 | 184.5 | 185.3 |
| 50° | 132.0 | 133.6 | 135.3 | 136.5 | 137.3 | 138.5 | 139.4 | 140.6 | 141.0 | 141.8 | 142.2 |
| 52.5° | 103.3 | 105.3 | 105.3 | 106.2 | 107.4 | 108.6 | 108.2 | 108.6 | 109.0 | 109.0 | 110.3 |
| 55° | 80.7 | 80.7 | 82.0 | 82.0 | 82.8 | 82.4 | 82.8 | 82.8 | 82.8 | 82.8 | 83.2 |
| 57.5° | 60.2 | 60.7 | 61.9 | 61.1 | 60.7 | 61.5 | 60.7 | 61.5 | 61.1 | 61.9 | 60.7 |
| 60° | 46.3 | 46.3 | 46.7 | 46.7 | 47.1 | 47.1 | 47.1 | 46.7 | 46.7 | 46.3 | 46.3 |
| 62.5° | 34.8 | 35.2 | 35.7 | 35.2 | 35.2 | 35.2 | 34.8 | 34.8 | 34.4 | 34.0 | 34.0 |
| 65° | 23.4 | 23.0 | 23.8 | 23.0 | 23.4 | 23.4 | 23.0 | 23.4 | 22.1 | 22.5 | 22.1 |
| 67.5° | 16.8 | 16.4 | 16.0 | 16.4 | 16.0 | 15.6 | 15.6 | 16.0 | 16.4 | 15.2 | 15.2 |
| 70° | 11.1 | 11.5 | 11.1 | 11.5 | 11.9 | 11.9 | 11.5 | 11.1 | 11.5 | 10.7 | 11.1 |
| 72.5° | 7.0 | 7.0 | 7.0 | 7.0 | 7.0 | 7.4 | 7.4 | 7.4 | 6.6 | 6.6 | 6.1 |
| 75° | 3.3 | 4.5 | 3.7 | 3.3 | 4.5 | 4.5 | 4.1 | 4.1 | 3.7 | 3.7 | 3.7 |
| 77.5° | 3.3 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.0 | 2.5 | 2.0 |
| 80° | 1.6 | 1.6 | 1.6 | 1.2 | 1.6 | 1.6 | 2.0 | 1.6 | 1.6 | 1.2 | 2.0 |
| 82.5° | 0.8 | 0.8 | 0.8 | 0.0 | 0.4 | 0.8 | 0.8 | 0.4 | 0.8 | 0.8 | 0.4 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 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: P245876

CATALOG NUMBER: LSR8B20D010 EC8B209727 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

| | 165° | 170° | 175° | 180° | 185° | 190° | 195° | 200° | 205° | 210° | 215° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 839.4 | 839.4 | 839.4 | 839.4 | 839.4 | 839.4 | 839.4 | 839.4 | 839.4 | 839.4 | 839.4 |
| 2.5° | 848.9 | 848.5 | 848.9 | 849.3 | 848.9 | 848.5 | 848.9 | 849.3 | 847.6 | 847.2 | 848.1 |
| 5° | 866.9 | 866.9 | 867.7 | 868.1 | 867.7 | 866.9 | 866.9 | 865.3 | 864.0 | 862.8 | 862.4 |
| 7.5° | 882.5 | 883.3 | 884.1 | 884.5 | 884.1 | 883.3 | 882.5 | 880.0 | 877.6 | 875.5 | 873.9 |
| 10° | 891.9 | 893.1 | 894.8 | 895.6 | 894.8 | 893.1 | 891.9 | 889.0 | 885.8 | 882.5 | 880.0 |
| 12.5° | 896.0 | 897.2 | 899.3 | 898.9 | 899.3 | 897.2 | 896.0 | 891.9 | 888.2 | 883.7 | 880.0 |
| 15° | 893.1 | 894.8 | 896.8 | 897.7 | 896.8 | 894.8 | 893.1 | 889.0 | 885.8 | 880.8 | 877.2 |
| 17.5° | 884.1 | 886.6 | 887.8 | 889.0 | 887.8 | 886.6 | 884.1 | 880.8 | 876.3 | 872.2 | 868.5 |
| 20° | 871.8 | 873.5 | 875.1 | 875.5 | 875.1 | 873.5 | 871.8 | 868.1 | 861.2 | 860.4 | 857.5 |
| 22.5° | 854.2 | 855.4 | 859.1 | 857.9 | 859.1 | 855.4 | 854.2 | 850.9 | 848.5 | 844.0 | 841.1 |
| 25° | 828.8 | 830.0 | 830.4 | 830.8 | 830.4 | 830.0 | 828.8 | 825.9 | 823.5 | 820.2 | 818.5 |
| 27.5° | 784.9 | 784.9 | 785.7 | 786.2 | 785.7 | 784.9 | 784.9 | 782.9 | 781.2 | 779.6 | 778.0 |
| 30° | 718.5 | 718.5 | 718.5 | 720.6 | 718.5 | 718.5 | 718.5 | 718.1 | 718.1 | 718.5 | 718.5 |
| 32.5° | 641.9 | 641.1 | 640.2 | 641.1 | 640.2 | 641.1 | 641.9 | 642.3 | 641.9 | 643.1 | 645.2 |
| 35° | 555.0 | 554.6 | 555.8 | 554.2 | 555.8 | 554.6 | 555.0 | 555.0 | 556.6 | 558.3 | 558.7 |
| 37.5° | 471.8 | 471.0 | 472.6 | 471.0 | 472.6 | 471.0 | 471.8 | 471.4 | 471.0 | 471.8 | 470.6 |
| 40° | 392.7 | 393.5 | 393.5 | 396.8 | 393.5 | 393.5 | 392.7 | 391.9 | 389.0 | 387.3 | 385.7 |
| 42.5° | 316.8 | 319.3 | 318.5 | 320.9 | 318.5 | 319.3 | 316.8 | 315.2 | 311.9 | 309.0 | 306.6 |
| 45° | 245.1 | 246.8 | 246.8 | 247.6 | 246.8 | 246.8 | 245.1 | 243.5 | 240.6 | 238.1 | 236.5 |
| 47.5° | 188.1 | 188.1 | 188.1 | 188.6 | 188.1 | 188.1 | 188.1 | 185.3 | 184.5 | 182.8 | 180.8 |
| 50° | 143.1 | 143.5 | 143.9 | 144.3 | 143.9 | 143.5 | 143.1 | 142.2 | 141.8 | 141.0 | 140.6 |
| 52.5° | 109.8 | 110.3 | 109.4 | 110.3 | 109.4 | 110.3 | 109.8 | 110.3 | 109.0 | 109.0 | 108.6 |
| 55° | 83.2 | 82.8 | 83.2 | 83.6 | 83.2 | 82.8 | 83.2 | 83.2 | 82.8 | 82.8 | 82.8 |
| 57.5° | 61.1 | 60.2 | 60.2 | 60.2 | 60.2 | 60.2 | 61.1 | 60.7 | 61.9 | 61.1 | 61.5 |
| 60° | 45.5 | 45.9 | 45.9 | 46.3 | 45.9 | 45.9 | 45.5 | 46.3 | 46.3 | 46.7 | 46.7 |
| 62.5° | 33.6 | 34.8 | 34.0 | 34.8 | 34.0 | 34.8 | 33.6 | 34.0 | 34.0 | 34.4 | 34.8 |
| 65° | 21.7 | 21.7 | 21.7 | 22.1 | 21.7 | 21.7 | 21.7 | 22.1 | 22.5 | 22.1 | 23.4 |
| 67.5° | 14.8 | 15.2 | 16.0 | 15.6 | 16.0 | 15.2 | 14.8 | 15.2 | 15.2 | 16.4 | 16.0 |
| 70° | 11.9 | 10.7 | 10.7 | 11.9 | 10.7 | 10.7 | 11.9 | 11.1 | 10.7 | 11.5 | 11.1 |
| 72.5° | 7.0 | 6.1 | 7.0 | 7.0 | 7.0 | 6.1 | 7.0 | 6.1 | 6.6 | 6.6 | 7.4 |
| 75° | 3.7 | 3.3 | 2.9 | 4.1 | 2.9 | 3.3 | 3.7 | 3.7 | 3.7 | 3.7 | 4.1 |
| 77.5° | 2.5 | 2.0 | 2.9 | 2.9 | 2.9 | 2.0 | 2.5 | 2.0 | 2.5 | 2.0 | 2.5 |
| 80° | 1.2 | 1.6 | 1.2 | 2.0 | 1.2 | 1.6 | 1.2 | 2.0 | 1.2 | 1.6 | 1.6 |
| 82.5° | 0.4 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.4 | 0.4 | 0.8 | 0.8 | 0.4 |
| 85° | 0.0 | 0.8 | 0.4 | 0.4 | 0.4 | 0.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 0.4 | 0.0 | 0.0 | 0.4 | 0.0 | 0.0 | 0.4 | 0.0 | 0.0 | 0.0 | 0.0 |
| 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: P245876

CATALOG NUMBER: LSR8B20D010 EC8B209727 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

| | 220° | 225° | 230° | 235° | 240° | 245° | 250° | 255° | 260° | 265° | 270° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 839.4 | 839.4 | 839.4 | 839.4 | 839.4 | 839.4 | 839.4 | 839.4 | 839.4 | 839.4 | 839.4 |
| 2.5° | 848.1 | 846.8 | 847.2 | 844.8 | 844.8 | 844.0 | 844.4 | 842.3 | 841.5 | 840.7 | 841.9 |
| 5° | 860.4 | 858.3 | 856.7 | 853.0 | 850.9 | 848.5 | 847.2 | 844.0 | 841.1 | 838.6 | 838.2 |
| 7.5° | 870.2 | 865.7 | 862.8 | 857.9 | 854.2 | 851.3 | 847.2 | 842.7 | 839.0 | 835.8 | 833.3 |
| 10° | 874.3 | 869.8 | 865.3 | 859.1 | 855.0 | 849.7 | 845.6 | 839.9 | 834.9 | 830.4 | 827.6 |
| 12.5° | 874.7 | 869.0 | 864.9 | 857.9 | 852.6 | 846.8 | 842.3 | 835.8 | 830.0 | 825.5 | 821.0 |
| 15° | 871.0 | 865.7 | 860.8 | 853.4 | 848.1 | 842.7 | 837.4 | 830.4 | 825.1 | 819.8 | 816.5 |
| 17.5° | 862.8 | 857.9 | 852.2 | 845.2 | 840.3 | 835.3 | 829.6 | 823.9 | 817.7 | 812.0 | 807.9 |
| 20° | 852.2 | 846.8 | 841.9 | 834.9 | 830.8 | 825.5 | 820.2 | 814.0 | 809.1 | 803.4 | 798.9 |
| 22.5° | 836.2 | 831.2 | 826.7 | 822.6 | 816.1 | 812.0 | 808.3 | 801.3 | 796.4 | 791.1 | 786.2 |
| 25° | 813.2 | 808.3 | 804.6 | 799.7 | 796.8 | 792.3 | 788.6 | 782.5 | 778.0 | 773.0 | 768.9 |
| 27.5° | 775.5 | 772.6 | 770.6 | 767.7 | 765.3 | 763.2 | 761.2 | 756.2 | 753.0 | 748.5 | 744.4 |
| 30° | 718.9 | 718.5 | 717.3 | 716.1 | 717.7 | 717.7 | 717.7 | 716.9 | 714.0 | 710.7 | 707.9 |
| 32.5° | 646.4 | 647.2 | 648.9 | 650.1 | 653.4 | 657.1 | 660.3 | 662.0 | 662.0 | 659.9 | 658.7 |
| 35° | 559.9 | 561.1 | 563.6 | 566.9 | 571.0 | 575.5 | 582.9 | 584.5 | 585.7 | 585.7 | 584.1 |
| 37.5° | 470.1 | 469.7 | 472.2 | 475.1 | 477.5 | 480.8 | 486.1 | 487.4 | 489.4 | 488.6 | 486.9 |
| 40° | 382.8 | 380.8 | 380.0 | 380.8 | 383.7 | 382.4 | 383.7 | 382.8 | 382.8 | 380.0 | 380.0 |
| 42.5° | 302.1 | 299.6 | 298.0 | 296.8 | 296.8 | 293.9 | 291.8 | 289.8 | 288.6 | 286.5 | 286.1 |
| 45° | 232.8 | 229.9 | 227.9 | 227.1 | 225.9 | 222.2 | 219.7 | 217.2 | 214.4 | 213.6 | 214.0 |
| 47.5° | 180.8 | 177.9 | 177.1 | 175.0 | 173.0 | 170.9 | 169.3 | 166.4 | 166.0 | 164.4 | 166.0 |
| 50° | 139.4 | 138.5 | 137.3 | 136.5 | 135.3 | 133.6 | 132.0 | 130.3 | 129.5 | 129.5 | 129.9 |
| 52.5° | 108.2 | 108.6 | 107.4 | 106.2 | 105.3 | 105.3 | 103.3 | 102.9 | 102.9 | 101.2 | 102.9 |
| 55° | 82.8 | 82.4 | 82.8 | 82.0 | 82.0 | 80.7 | 80.7 | 79.5 | 79.5 | 78.3 | 79.1 |
| 57.5° | 60.7 | 61.5 | 60.7 | 61.1 | 61.9 | 60.7 | 60.2 | 59.0 | 59.8 | 59.0 | 59.4 |
| 60° | 47.1 | 47.1 | 47.1 | 46.7 | 46.7 | 46.3 | 46.3 | 45.9 | 45.9 | 45.1 | 45.9 |
| 62.5° | 34.8 | 35.2 | 35.2 | 35.2 | 35.7 | 35.2 | 34.8 | 35.2 | 34.8 | 34.8 | 35.2 |
| 65° | 23.0 | 23.4 | 23.4 | 23.0 | 23.8 | 23.0 | 23.4 | 23.8 | 24.2 | 23.8 | 24.2 |
| 67.5° | 15.6 | 15.6 | 16.0 | 16.4 | 16.0 | 16.4 | 16.8 | 16.4 | 16.8 | 17.6 | 16.8 |
| 70° | 11.5 | 11.9 | 11.9 | 11.5 | 11.1 | 11.5 | 11.1 | 12.3 | 12.3 | 12.3 | 13.1 |
| 72.5° | 7.4 | 7.4 | 7.0 | 7.0 | 7.0 | 7.0 | 7.0 | 8.2 | 7.4 | 7.0 | 7.8 |
| 75° | 4.1 | 4.5 | 4.5 | 3.3 | 3.7 | 4.5 | 3.3 | 3.7 | 4.9 | 4.1 | 4.9 |
| 77.5° | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 3.3 | 2.9 | 2.9 | 2.9 | 3.3 |
| 80° | 2.0 | 1.6 | 1.6 | 1.2 | 1.6 | 1.6 | 1.6 | 2.5 | 2.0 | 2.0 | 2.5 |
| 82.5° | 0.8 | 0.8 | 0.4 | 0.0 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 1.6 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.4 | 0.4 | 0.0 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.8 | 0.0 | 0.0 | 0.0 |
| 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: P245876

CATALOG NUMBER: LSR8B20D010 EC8B209727 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

| | 275° | 280° | 285° | 290° | 295° | 300° | 305° | 310° | 315° | 320° | 325° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 839.4 | 839.4 | 839.4 | 839.4 | 839.4 | 839.4 | 839.4 | 839.4 | 839.4 | 839.4 | 839.4 |
| 2.5° | 838.6 | 838.6 | 838.2 | 837.4 | 835.8 | 835.8 | 835.3 | 834.1 | 833.3 | 832.9 | 832.9 |
| 5° | 834.5 | 832.9 | 831.2 | 826.7 | 826.7 | 825.9 | 823.5 | 821.8 | 821.0 | 818.9 | 818.1 |
| 7.5° | 830.8 | 825.9 | 823.0 | 820.2 | 816.5 | 814.8 | 812.0 | 810.7 | 807.9 | 805.8 | 804.6 |
| 10° | 821.8 | 818.5 | 814.8 | 810.3 | 807.5 | 804.2 | 800.9 | 798.5 | 794.8 | 792.7 | 791.1 |
| 12.5° | 815.7 | 810.7 | 807.5 | 802.5 | 797.6 | 794.8 | 790.3 | 787.4 | 783.7 | 779.6 | 777.1 |
| 15° | 809.9 | 804.6 | 800.1 | 794.8 | 789.4 | 786.2 | 780.8 | 777.6 | 772.2 | 768.1 | 765.3 |
| 17.5° | 801.3 | 796.8 | 791.9 | 785.3 | 780.4 | 776.3 | 770.6 | 766.5 | 761.6 | 756.2 | 753.4 |
| 20° | 792.3 | 787.0 | 782.1 | 775.5 | 770.6 | 765.7 | 759.9 | 755.4 | 749.7 | 744.8 | 741.5 |
| 22.5° | 780.4 | 774.3 | 770.2 | 763.6 | 757.9 | 752.6 | 747.2 | 741.9 | 736.6 | 732.5 | 728.8 |
| 25° | 763.2 | 756.6 | 752.1 | 746.8 | 741.5 | 737.4 | 730.8 | 727.6 | 722.2 | 718.5 | 714.8 |
| 27.5° | 738.6 | 733.7 | 729.6 | 724.3 | 719.8 | 716.5 | 711.6 | 708.3 | 703.8 | 700.5 | 697.6 |
| 30° | 702.6 | 698.5 | 694.8 | 689.4 | 686.2 | 683.3 | 678.8 | 675.9 | 672.6 | 668.9 | 668.1 |
| 32.5° | 654.2 | 650.9 | 647.2 | 643.5 | 641.1 | 639.4 | 635.7 | 634.1 | 630.8 | 628.8 | 626.7 |
| 35° | 581.2 | 578.3 | 576.3 | 574.7 | 573.8 | 574.2 | 573.4 | 575.1 | 575.9 | 575.5 | 575.9 |
| 37.5° | 485.7 | 484.1 | 484.9 | 486.1 | 490.2 | 495.6 | 500.5 | 507.8 | 512.8 | 517.7 | 522.2 |
| 40° | 379.1 | 380.4 | 383.7 | 391.0 | 401.7 | 413.6 | 424.6 | 438.6 | 452.5 | 462.4 | 471.4 |
| 42.5° | 286.1 | 289.8 | 298.0 | 308.6 | 324.6 | 342.3 | 359.5 | 380.0 | 396.8 | 413.2 | 424.6 |
| 45° | 215.2 | 220.1 | 230.8 | 245.5 | 263.1 | 283.6 | 305.4 | 328.3 | 348.4 | 365.2 | 377.9 |
| 47.5° | 167.6 | 172.2 | 182.8 | 198.4 | 220.1 | 241.4 | 264.0 | 287.7 | 308.6 | 325.0 | 336.1 |
| 50° | 132.4 | 138.1 | 147.6 | 164.0 | 185.7 | 208.2 | 231.6 | 254.9 | 274.6 | 288.6 | 298.4 |
| 52.5° | 104.1 | 109.4 | 118.5 | 135.7 | 157.8 | 180.4 | 202.1 | 225.0 | 242.2 | 255.8 | 262.3 |
| 55° | 80.7 | 85.7 | 95.1 | 109.4 | 130.3 | 152.5 | 174.2 | 193.9 | 209.9 | 219.7 | 225.9 |
| 57.5° | 61.5 | 65.2 | 71.7 | 86.1 | 104.9 | 125.4 | 143.9 | 163.6 | 175.8 | 182.8 | 186.9 |
| 60° | 46.7 | 49.6 | 56.6 | 67.6 | 84.8 | 102.5 | 118.0 | 132.8 | 142.6 | 148.4 | 152.5 |
| 62.5° | 35.2 | 38.5 | 43.4 | 52.9 | 66.0 | 80.3 | 93.4 | 104.5 | 112.7 | 116.4 | 119.3 |
| 65° | 24.2 | 26.6 | 30.3 | 37.7 | 48.8 | 59.0 | 69.3 | 77.5 | 82.8 | 86.9 | 88.5 |
| 67.5° | 18.0 | 19.7 | 21.7 | 27.5 | 35.2 | 43.4 | 50.4 | 56.1 | 61.9 | 63.5 | 66.4 |
| 70° | 13.5 | 14.8 | 16.8 | 20.9 | 25.4 | 31.1 | 36.9 | 40.2 | 44.3 | 47.1 | 48.0 |
| 72.5° | 8.6 | 9.0 | 11.1 | 13.5 | 17.2 | 20.9 | 24.6 | 27.5 | 29.9 | 31.6 | 32.4 |
| 75° | 4.9 | 7.4 | 7.4 | 9.8 | 12.3 | 13.9 | 16.4 | 18.4 | 19.7 | 20.9 | 20.9 |
| 77.5° | 3.3 | 4.5 | 4.9 | 6.1 | 7.4 | 9.4 | 11.5 | 12.7 | 13.9 | 14.3 | 14.3 |
| 80° | 2.9 | 3.3 | 3.3 | 4.5 | 5.3 | 7.0 | 8.2 | 8.6 | 9.4 | 9.8 | 10.7 |
| 82.5° | 1.2 | 1.6 | 2.0 | 3.3 | 3.7 | 3.7 | 4.9 | 5.3 | 6.1 | 6.6 | 6.6 |
| 85° | 0.4 | 0.8 | 0.8 | 1.2 | 2.0 | 2.5 | 2.9 | 3.3 | 3.7 | 3.7 | 4.1 |
| 87.5° | 0.4 | 0.4 | 0.0 | 0.4 | 0.8 | 0.8 | 1.6 | 1.6 | 1.6 | 2.5 | 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 |



TEST NUMBER: P245876

CATALOG NUMBER: LSR8B20D010 EC8B209727 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

| | 330° | 335° | 340° | 345° | 350° | 355° | 360° |
|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 839.4 | 839.4 | 839.4 | 839.4 | 839.4 | 839.4 | 839.4 |
| 2.5° | 832.1 | 832.5 | 830.8 | 830.4 | 829.6 | 830.0 | 830.8 |
| 5° | 816.9 | 817.3 | 815.7 | 814.0 | 814.0 | 813.6 | 814.0 |
| 7.5° | 802.5 | 803.0 | 800.5 | 799.7 | 798.0 | 798.5 | 798.5 |
| 10° | 788.2 | 788.2 | 784.5 | 784.1 | 782.9 | 782.5 | 782.5 |
| 12.5° | 774.3 | 773.0 | 770.2 | 768.5 | 769.4 | 766.9 | 766.9 |
| 15° | 762.0 | 759.9 | 756.2 | 755.0 | 753.0 | 752.1 | 752.1 |
| 17.5° | 749.3 | 747.6 | 744.4 | 741.9 | 739.4 | 739.0 | 739.4 |
| 20° | 737.0 | 735.3 | 731.2 | 729.6 | 727.6 | 727.6 | 726.7 |
| 22.5° | 724.7 | 723.0 | 719.4 | 718.1 | 715.3 | 715.3 | 715.7 |
| 25° | 712.0 | 710.7 | 706.6 | 705.8 | 705.4 | 703.8 | 704.6 |
| 27.5° | 694.8 | 693.9 | 690.7 | 689.4 | 687.8 | 687.4 | 688.2 |
| 30° | 663.2 | 662.0 | 659.5 | 658.3 | 655.4 | 655.8 | 656.6 |
| 32.5° | 623.8 | 622.2 | 618.9 | 617.7 | 615.2 | 614.4 | 614.8 |
| 35° | 574.7 | 573.4 | 570.6 | 570.6 | 568.1 | 567.3 | 568.1 |
| 37.5° | 524.7 | 525.9 | 524.7 | 525.9 | 524.7 | 524.2 | 524.7 |
| 40° | 477.5 | 482.0 | 482.8 | 487.4 | 485.7 | 488.2 | 487.8 |
| 42.5° | 432.4 | 439.8 | 442.7 | 446.4 | 445.6 | 447.2 | 448.4 |
| 45° | 386.9 | 393.1 | 396.0 | 398.4 | 398.8 | 399.6 | 400.1 |
| 47.5° | 343.9 | 348.8 | 349.2 | 352.1 | 351.7 | 351.7 | 352.9 |
| 50° | 303.7 | 307.0 | 307.8 | 309.9 | 308.2 | 307.4 | 307.8 |
| 52.5° | 266.4 | 269.7 | 268.9 | 269.7 | 267.7 | 266.8 | 267.2 |
| 55° | 228.3 | 229.9 | 229.9 | 229.9 | 227.5 | 227.5 | 227.5 |
| 57.5° | 189.4 | 189.8 | 189.0 | 189.4 | 189.0 | 186.5 | 186.1 |
| 60° | 153.7 | 153.7 | 153.3 | 153.7 | 152.5 | 151.3 | 151.3 |
| 62.5° | 120.1 | 120.9 | 122.6 | 120.9 | 120.1 | 120.9 | 119.7 |
| 65° | 89.8 | 91.4 | 91.0 | 91.8 | 91.4 | 91.4 | 90.6 |
| 67.5° | 67.6 | 68.0 | 68.4 | 68.9 | 68.9 | 68.9 | 68.9 |
| 70° | 49.6 | 50.8 | 50.4 | 50.4 | 50.4 | 50.4 | 52.9 |
| 72.5° | 33.2 | 34.8 | 34.4 | 35.2 | 35.2 | 36.1 | 35.2 |
| 75° | 22.5 | 24.2 | 23.4 | 24.6 | 24.2 | 23.4 | 25.4 |
| 77.5° | 15.2 | 16.0 | 16.4 | 16.8 | 16.4 | 16.0 | 16.4 |
| 80° | 10.7 | 11.5 | 11.1 | 11.5 | 11.5 | 11.5 | 11.9 |
| 82.5° | 6.6 | 7.8 | 7.4 | 7.8 | 7.4 | 7.8 | 7.8 |
| 85° | 4.5 | 4.9 | 4.1 | 4.9 | 4.5 | 4.5 | 5.3 |
| 87.5° | 2.9 | 2.5 | 2.5 | 2.9 | 2.5 | 2.9 | 2.5 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)