

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: P244658

Luminaire Tested: **LSR8B20D010 EC8B209730 8LBDW0H**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P244658  
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 EC8B209730 8LBDW0H  
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT- CYLINDEC  
97 CRI 3000 CCT WITH SEMI-SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1639.0 lumens  
Efficiency: N/A  
Efficacy: 76.9 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.26 / 1.18  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

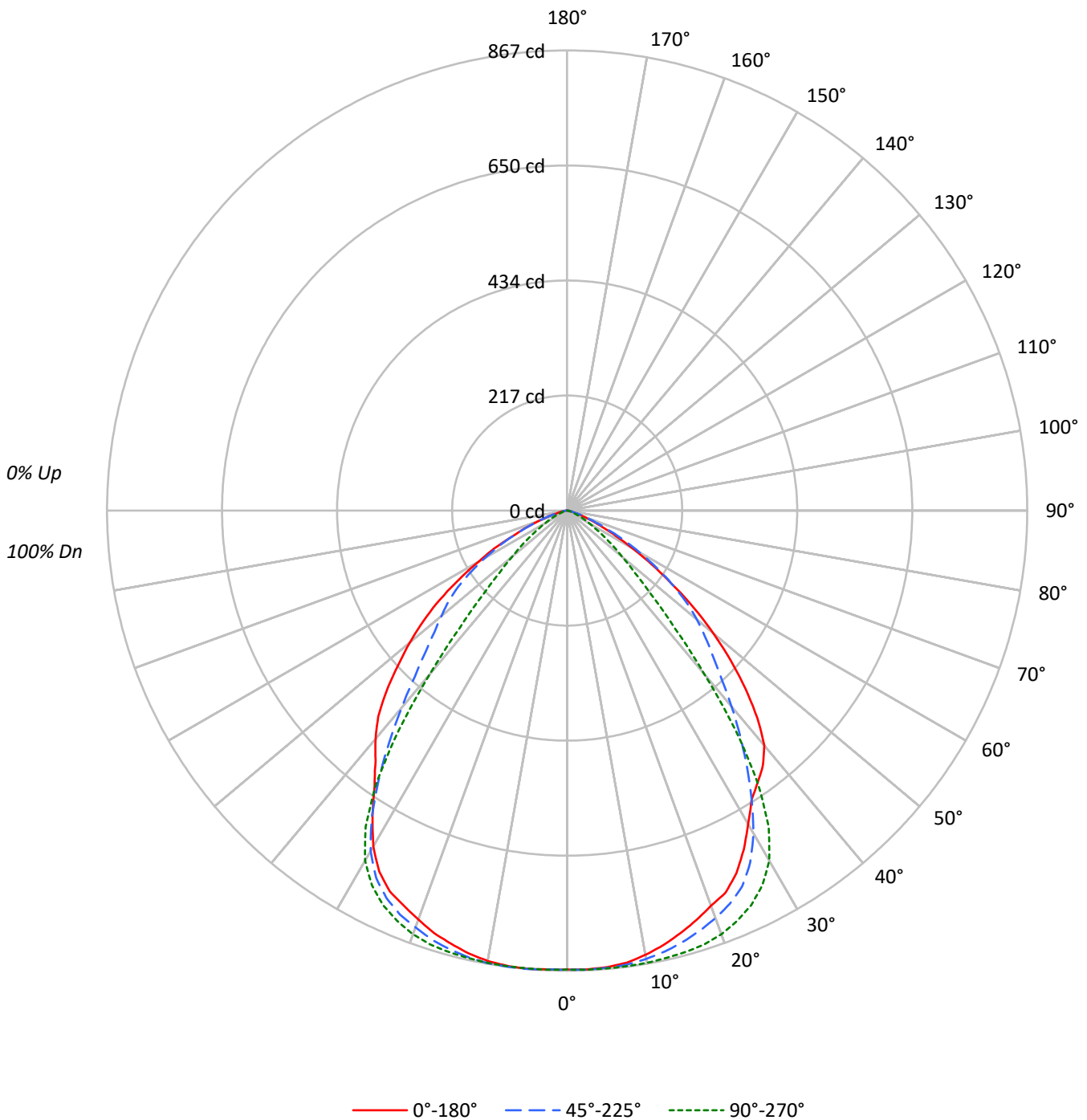
Input Watts (W): 21.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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 | 0 |  |  |  |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |   |  |  |  |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |    |    |   |  |  |  |
| 1   | 112 | 108 | 105 | 102 | 109 | 106 | 103 | 100 | 102 | 99  | 97  | 98  | 96  | 94  | 94  | 93  | 91  | 90  |    |    |   |  |  |  |
| 2   | 104 | 97  | 92  | 88  | 101 | 96  | 91  | 87  | 92  | 88  | 85  | 89  | 86  | 83  | 86  | 83  | 81  | 79  |    |    |   |  |  |  |
| 3   | 96  | 88  | 81  | 76  | 94  | 86  | 80  | 75  | 84  | 78  | 74  | 81  | 77  | 73  | 79  | 75  | 72  | 70  |    |    |   |  |  |  |
| 4   | 89  | 80  | 72  | 67  | 87  | 78  | 72  | 66  | 76  | 70  | 66  | 74  | 69  | 65  | 72  | 67  | 64  | 62  |    |    |   |  |  |  |
| 5   | 83  | 72  | 65  | 59  | 81  | 71  | 64  | 59  | 69  | 63  | 58  | 68  | 62  | 58  | 66  | 61  | 57  | 55  |    |    |   |  |  |  |
| 6   | 78  | 66  | 58  | 53  | 76  | 65  | 58  | 53  | 64  | 57  | 52  | 62  | 56  | 52  | 61  | 55  | 51  | 50  |    |    |   |  |  |  |
| 7   | 72  | 61  | 53  | 48  | 71  | 60  | 53  | 48  | 59  | 52  | 47  | 57  | 51  | 47  | 56  | 51  | 47  | 45  |    |    |   |  |  |  |
| 8   | 68  | 56  | 48  | 43  | 66  | 55  | 48  | 43  | 54  | 48  | 43  | 53  | 47  | 43  | 52  | 46  | 42  | 41  |    |    |   |  |  |  |
| 9   | 64  | 52  | 44  | 39  | 62  | 51  | 44  | 39  | 50  | 44  | 39  | 49  | 43  | 39  | 48  | 43  | 39  | 37  |    |    |   |  |  |  |
| 10  | 60  | 48  | 41  | 36  | 59  | 48  | 41  | 36  | 47  | 40  | 36  | 46  | 40  | 36  | 45  | 40  | 36  | 34  |    |    |   |  |  |  |

**AVERAGE LUMINANCE (cd/sqm):**

|     | 0°   | 90° | 180° |
|-----|--|-----|------|
| 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°    | 82.5   | 5.0       |
| 10°-20°   | 239.7  | 14.6      |
| 20°-30°   | 363.8  | 22.2      |
| 30°-40°   | 382.1  | 23.3      |
| 40°-50°   | 286.5  | 17.5      |
| 50°-60°   | 183.8  | 11.2      |
| 60°-70°   | 78.6   | 4.8       |
| 70°-80°   | 18.6   | 1.1       |
| 80°-90°   | 3.5    | 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°    | 686.0  | 41.9      |
| 0°-40°    | 1068.1 | 65.2      |
| 0°-60°    | 1538.3 | 93.9      |
| 0°-90°    | 1639.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1639.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0°  | 865 | 865 | 865 | 865  | 865  |      |
| 5°  | 863 | 865 | 866 | 867  | 867  | 82   |
| 15° | 824 | 842 | 861 | 856  | 845  | 233  |
| 25° | 754 | 781 | 820 | 805  | 791  | 345  |
| 35° | 626 | 591 | 626 | 619  | 633  | 393  |
| 45° | 475 | 388 | 223 | 377  | 482  | 364  |
| 55° | 240 | 240 | 83  | 251  | 293  | 218  |
| 65° | 72  | 85  | 26  | 110  | 112  | 77   |
| 75° | 11  | 13  | 4   | 22   | 22   | 16   |
| 85° | 4   | 2   | 2   | 4    | 5    | 4    |
| 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°    | 864.8 | 864.8 | 864.8 | 864.8 | 864.8 | 864.8 | 864.8 | 864.8 | 864.8 | 864.8 | 864.8 |
| 2.5°  | 865.2 | 866.2 | 865.7 | 865.7 | 865.2 | 865.7 | 865.7 | 866.6 | 866.6 | 865.7 | 865.2 |
| 5°    | 863.4 | 864.3 | 864.3 | 863.4 | 863.4 | 865.7 | 864.3 | 865.2 | 865.2 | 864.8 | 864.8 |
| 7.5°  | 859.2 | 859.2 | 861.1 | 859.7 | 859.7 | 861.1 | 860.6 | 861.5 | 862.5 | 862.9 | 862.9 |
| 10°   | 849.9 | 850.8 | 851.3 | 851.3 | 851.8 | 853.2 | 854.1 | 856.0 | 856.9 | 857.8 | 858.3 |
| 12.5° | 838.3 | 839.7 | 840.2 | 839.7 | 841.1 | 843.0 | 845.3 | 847.6 | 849.0 | 850.8 | 852.2 |
| 15°   | 824.4 | 824.4 | 825.3 | 826.7 | 827.6 | 830.4 | 832.7 | 835.5 | 839.2 | 841.6 | 843.9 |
| 17.5° | 809.1 | 810.0 | 811.4 | 811.4 | 813.2 | 817.9 | 819.3 | 823.5 | 827.6 | 830.0 | 834.6 |
| 20°   | 792.4 | 793.3 | 794.7 | 795.6 | 797.9 | 801.6 | 804.4 | 808.1 | 812.8 | 817.0 | 821.6 |
| 22.5° | 779.4 | 777.5 | 778.4 | 779.4 | 781.7 | 784.9 | 788.2 | 792.8 | 797.5 | 801.6 | 806.3 |
| 25°   | 754.3 | 754.8 | 756.2 | 757.1 | 759.9 | 762.7 | 766.4 | 771.9 | 776.1 | 780.8 | 785.9 |
| 27.5° | 720.4 | 720.9 | 723.2 | 723.2 | 725.5 | 730.2 | 732.5 | 737.1 | 742.7 | 747.3 | 753.4 |
| 30°   | 681.9 | 682.8 | 682.8 | 684.7 | 686.1 | 688.4 | 690.7 | 695.3 | 698.1 | 702.3 | 710.7 |
| 32.5° | 646.6 | 647.5 | 647.1 | 646.6 | 645.2 | 644.7 | 644.3 | 645.2 | 646.1 | 647.5 | 650.8 |
| 35°   | 625.7 | 623.4 | 621.5 | 618.3 | 614.6 | 609.9 | 605.8 | 600.2 | 595.1 | 590.9 | 586.3 |
| 37.5° | 605.8 | 605.3 | 602.5 | 597.9 | 590.4 | 582.1 | 572.3 | 560.3 | 548.2 | 535.2 | 522.7 |
| 40°   | 577.9 | 576.5 | 574.2 | 567.7 | 559.3 | 549.1 | 536.1 | 521.3 | 501.8 | 481.8 | 461.4 |
| 42.5° | 530.6 | 531.0 | 528.2 | 523.1 | 515.2 | 505.5 | 492.0 | 475.8 | 454.9 | 431.2 | 404.8 |
| 45°   | 475.3 | 475.3 | 474.4 | 470.2 | 464.6 | 456.8 | 446.5 | 433.1 | 412.7 | 388.5 | 360.2 |
| 47.5° | 417.8 | 418.2 | 416.8 | 415.9 | 413.6 | 408.5 | 401.1 | 390.8 | 376.5 | 353.2 | 324.9 |
| 50°   | 359.3 | 359.3 | 361.6 | 361.1 | 361.1 | 359.3 | 356.0 | 350.0 | 337.5 | 318.9 | 292.4 |
| 52.5° | 300.8 | 301.7 | 303.1 | 305.0 | 307.3 | 311.0 | 307.3 | 304.5 | 296.6 | 282.2 | 259.5 |
| 55°   | 240.4 | 241.4 | 243.7 | 246.9 | 249.7 | 253.4 | 254.4 | 254.4 | 250.2 | 240.4 | 223.3 |
| 57.5° | 188.9 | 187.5 | 189.4 | 192.2 | 195.9 | 199.6 | 202.4 | 205.6 | 205.2 | 198.7 | 184.7 |
| 60°   | 142.0 | 142.5 | 143.9 | 146.7 | 149.5 | 152.7 | 156.4 | 159.2 | 160.6 | 157.4 | 148.5 |
| 62.5° | 103.5 | 103.5 | 105.4 | 108.1 | 109.5 | 114.2 | 116.5 | 117.9 | 119.3 | 118.8 | 113.3 |
| 65°   | 72.4  | 73.3  | 74.3  | 75.7  | 77.1  | 79.8  | 81.2  | 84.0  | 84.9  | 85.4  | 81.2  |
| 67.5° | 51.1  | 49.7  | 50.6  | 51.5  | 52.9  | 54.8  | 57.6  | 57.6  | 58.9  | 58.9  | 56.2  |
| 70°   | 32.5  | 32.5  | 33.0  | 34.3  | 35.3  | 35.7  | 36.7  | 37.6  | 39.0  | 38.5  | 38.5  |
| 72.5° | 21.8  | 21.4  | 21.8  | 22.3  | 22.7  | 24.1  | 24.1  | 24.6  | 25.5  | 26.0  | 24.1  |
| 75°   | 11.1  | 11.6  | 12.5  | 12.1  | 13.5  | 12.5  | 13.0  | 14.4  | 13.9  | 13.0  | 13.0  |
| 77.5° | 9.3   | 9.3   | 9.3   | 8.8   | 9.7   | 9.7   | 9.3   | 10.2  | 9.7   | 9.7   | 9.3   |
| 80°   | 6.5   | 7.0   | 6.5   | 6.0   | 6.5   | 6.0   | 6.0   | 6.0   | 6.0   | 6.0   | 5.6   |
| 82.5° | 5.1   | 4.2   | 4.6   | 4.2   | 4.6   | 4.6   | 4.2   | 3.7   | 3.7   | 4.2   | 3.7   |
| 85°   | 3.7   | 2.8   | 3.2   | 3.2   | 2.8   | 2.8   | 2.8   | 2.8   | 2.8   | 2.3   | 2.3   |
| 87.5° | 2.3   | 1.4   | 1.4   | 1.4   | 1.9   | 1.9   | 1.9   | 1.4   | 1.9   | 1.9   | 0.9   |
| 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°    | 864.8 | 864.8 | 864.8 | 864.8 | 864.8 | 864.8 | 864.8 | 864.8 | 864.8 | 864.8 | 864.8 |
| 2.5°  | 866.2 | 865.7 | 866.6 | 866.2 | 866.2 | 865.7 | 866.2 | 865.7 | 866.6 | 864.8 | 865.2 |
| 5°    | 866.2 | 865.2 | 865.7 | 866.2 | 866.6 | 865.7 | 865.7 | 865.7 | 866.6 | 865.7 | 866.2 |
| 7.5°  | 864.3 | 863.8 | 865.2 | 866.2 | 865.7 | 865.2 | 866.2 | 865.7 | 866.6 | 866.2 | 867.1 |
| 10°   | 860.6 | 861.1 | 862.0 | 863.4 | 863.8 | 864.3 | 865.2 | 865.2 | 866.6 | 864.8 | 865.7 |
| 12.5° | 855.0 | 856.9 | 859.2 | 860.1 | 862.0 | 862.0 | 862.9 | 863.4 | 864.3 | 863.8 | 865.2 |
| 15°   | 848.1 | 850.4 | 853.2 | 855.5 | 857.8 | 859.2 | 860.6 | 861.1 | 862.5 | 861.1 | 861.5 |
| 17.5° | 839.7 | 842.5 | 846.7 | 849.4 | 853.2 | 854.6 | 856.4 | 857.3 | 858.7 | 857.8 | 858.3 |
| 20°   | 828.1 | 831.4 | 836.0 | 840.2 | 842.5 | 845.7 | 848.1 | 849.4 | 850.4 | 849.4 | 849.9 |
| 22.5° | 811.9 | 816.5 | 822.5 | 825.8 | 830.4 | 833.2 | 833.7 | 836.9 | 839.2 | 836.9 | 837.9 |
| 25°   | 792.8 | 797.5 | 802.1 | 809.1 | 813.2 | 816.5 | 819.7 | 820.2 | 822.5 | 822.1 | 821.6 |
| 27.5° | 761.3 | 767.3 | 775.2 | 780.8 | 786.3 | 791.4 | 795.1 | 796.1 | 798.4 | 797.5 | 797.9 |
| 30°   | 718.1 | 724.6 | 732.0 | 740.8 | 748.7 | 753.8 | 758.5 | 761.7 | 764.0 | 762.7 | 762.2 |
| 32.5° | 656.8 | 663.3 | 671.2 | 680.0 | 689.3 | 696.7 | 702.3 | 706.5 | 709.3 | 708.3 | 706.0 |
| 35°   | 586.7 | 588.6 | 593.7 | 600.7 | 608.5 | 616.4 | 621.5 | 626.2 | 629.4 | 630.4 | 630.4 |
| 37.5° | 514.8 | 508.7 | 505.0 | 505.0 | 509.7 | 512.9 | 517.6 | 520.3 | 525.5 | 527.3 | 528.7 |
| 40°   | 445.1 | 431.2 | 418.2 | 408.5 | 402.0 | 401.5 | 401.5 | 402.9 | 407.6 | 413.6 | 419.2 |
| 42.5° | 382.9 | 360.7 | 340.7 | 322.6 | 309.6 | 302.2 | 298.9 | 299.4 | 303.1 | 308.7 | 318.0 |
| 45°   | 333.3 | 305.4 | 280.4 | 258.5 | 240.9 | 229.3 | 223.7 | 223.3 | 226.1 | 232.6 | 242.8 |
| 47.5° | 294.8 | 265.0 | 236.7 | 211.7 | 192.6 | 180.1 | 173.6 | 171.8 | 173.6 | 179.6 | 191.7 |
| 50°   | 262.7 | 232.1 | 202.8 | 176.9 | 156.4 | 143.4 | 137.4 | 135.1 | 137.4 | 142.5 | 154.6 |
| 52.5° | 233.0 | 201.5 | 174.1 | 149.0 | 127.2 | 116.0 | 109.5 | 108.1 | 109.5 | 115.6 | 125.3 |
| 55°   | 198.7 | 171.8 | 144.8 | 119.8 | 100.7 | 89.6  | 84.5  | 83.1  | 84.5  | 90.1  | 100.3 |
| 57.5° | 164.8 | 141.6 | 117.9 | 95.2  | 78.9  | 69.2  | 64.5  | 62.7  | 65.9  | 69.6  | 81.7  |
| 60°   | 133.2 | 114.7 | 94.7  | 74.7  | 61.3  | 52.5  | 48.7  | 48.3  | 49.2  | 53.8  | 62.2  |
| 62.5° | 104.4 | 89.1  | 73.3  | 57.1  | 46.0  | 42.2  | 37.6  | 37.1  | 38.1  | 40.8  | 47.4  |
| 65°   | 75.2  | 65.5  | 53.4  | 41.8  | 33.0  | 27.8  | 26.0  | 26.5  | 27.4  | 29.2  | 35.3  |
| 67.5° | 52.5  | 45.5  | 37.1  | 29.2  | 22.7  | 20.4  | 18.6  | 18.1  | 18.6  | 21.8  | 25.1  |
| 70°   | 35.3  | 31.1  | 25.1  | 22.3  | 15.8  | 12.5  | 13.0  | 11.6  | 13.5  | 13.5  | 16.2  |
| 72.5° | 23.2  | 20.4  | 16.7  | 13.0  | 11.1  | 8.8   | 8.8   | 8.4   | 9.3   | 9.7   | 12.1  |
| 75°   | 12.1  | 9.3   | 9.3   | 6.5   | 4.6   | 2.3   | 4.2   | 3.7   | 3.2   | 3.7   | 4.6   |
| 77.5° | 8.4   | 7.0   | 6.5   | 5.1   | 4.6   | 3.7   | 3.7   | 3.7   | 3.7   | 4.2   | 4.6   |
| 80°   | 5.1   | 5.1   | 3.7   | 3.2   | 2.8   | 2.3   | 2.8   | 2.8   | 2.8   | 2.8   | 3.2   |
| 82.5° | 3.2   | 2.8   | 2.8   | 2.3   | 2.3   | 1.9   | 1.9   | 1.9   | 1.9   | 1.9   | 2.8   |
| 85°   | 2.8   | 1.9   | 1.9   | 1.4   | 1.9   | 3.2   | 1.4   | 1.9   | 1.9   | 1.9   | 1.4   |
| 87.5° | 0.9   | 1.4   | 1.4   | 1.4   | 0.9   | 0.5   | 0.9   | 1.4   | 1.4   | 2.3   | 1.9   |
| 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°    | 864.8 | 864.8 | 864.8 | 864.8 | 864.8 | 864.8 | 864.8 | 864.8 | 864.8 | 864.8 | 864.8 |
| 2.5°  | 866.2 | 866.6 | 866.6 | 866.2 | 866.2 | 865.2 | 867.1 | 865.7 | 866.2 | 868.0 | 866.6 |
| 5°    | 867.1 | 867.6 | 867.6 | 867.1 | 867.1 | 867.1 | 867.6 | 867.6 | 867.1 | 866.6 | 867.6 |
| 7.5°  | 868.9 | 868.5 | 868.5 | 867.6 | 867.6 | 866.6 | 867.6 | 866.2 | 867.1 | 866.2 | 867.6 |
| 10°   | 866.6 | 867.1 | 866.6 | 866.2 | 866.2 | 865.7 | 865.7 | 864.3 | 864.8 | 863.4 | 864.3 |
| 12.5° | 865.2 | 864.8 | 864.8 | 863.8 | 862.9 | 862.0 | 861.5 | 860.1 | 860.1 | 856.9 | 858.3 |
| 15°   | 861.5 | 862.0 | 860.6 | 858.7 | 857.8 | 855.5 | 854.6 | 852.7 | 850.8 | 848.5 | 849.0 |
| 17.5° | 858.3 | 856.9 | 855.0 | 853.2 | 849.4 | 847.6 | 845.7 | 843.0 | 842.0 | 839.2 | 838.3 |
| 20°   | 848.5 | 847.6 | 845.3 | 842.0 | 839.7 | 835.5 | 833.7 | 830.9 | 828.6 | 825.8 | 824.4 |
| 22.5° | 836.0 | 835.1 | 832.3 | 829.0 | 825.3 | 823.5 | 821.6 | 816.5 | 814.2 | 811.4 | 810.9 |
| 25°   | 820.2 | 818.8 | 816.0 | 812.3 | 810.5 | 805.4 | 803.5 | 799.8 | 798.9 | 796.1 | 795.6 |
| 27.5° | 796.1 | 794.2 | 791.0 | 786.3 | 783.1 | 779.8 | 778.0 | 775.2 | 774.3 | 771.5 | 771.0 |
| 30°   | 759.9 | 757.5 | 751.0 | 749.2 | 743.6 | 740.4 | 740.4 | 736.7 | 737.1 | 735.3 | 735.3 |
| 32.5° | 702.8 | 699.1 | 693.9 | 690.2 | 686.5 | 684.7 | 684.7 | 683.3 | 684.2 | 684.2 | 685.1 |
| 35°   | 627.1 | 622.0 | 619.2 | 616.9 | 616.9 | 618.7 | 624.3 | 625.7 | 628.5 | 630.8 | 632.7 |
| 37.5° | 530.1 | 529.6 | 532.9 | 535.7 | 542.6 | 550.5 | 560.3 | 568.6 | 576.5 | 582.1 | 587.7 |
| 40°   | 425.2 | 436.8 | 446.1 | 459.1 | 469.7 | 485.1 | 502.7 | 517.1 | 530.6 | 540.3 | 550.5 |
| 42.5° | 331.9 | 346.7 | 366.2 | 385.3 | 404.3 | 425.2 | 448.4 | 468.4 | 486.0 | 499.5 | 510.1 |
| 45°   | 258.5 | 279.0 | 302.7 | 326.8 | 351.4 | 377.4 | 401.5 | 421.9 | 440.5 | 454.4 | 465.1 |
| 47.5° | 208.4 | 230.7 | 257.6 | 284.1 | 311.9 | 339.3 | 366.2 | 383.9 | 399.2 | 410.3 | 420.1 |
| 50°   | 172.2 | 195.9 | 224.2 | 254.4 | 282.2 | 309.6 | 332.8 | 350.0 | 362.5 | 372.3 | 378.3 |
| 52.5° | 143.9 | 169.0 | 199.1 | 229.3 | 257.2 | 282.2 | 303.1 | 316.1 | 326.3 | 333.3 | 338.8 |
| 55°   | 118.8 | 143.0 | 171.3 | 199.6 | 227.0 | 250.7 | 267.8 | 277.6 | 285.5 | 289.6 | 292.9 |
| 57.5° | 97.0  | 119.3 | 145.3 | 171.3 | 195.0 | 214.5 | 227.9 | 237.7 | 241.4 | 244.6 | 244.2 |
| 60°   | 76.1  | 97.0  | 120.7 | 143.0 | 163.4 | 179.2 | 188.9 | 194.5 | 197.3 | 198.7 | 197.7 |
| 62.5° | 59.9  | 78.9  | 97.0  | 116.5 | 131.4 | 144.8 | 154.1 | 154.1 | 155.5 | 156.0 | 157.4 |
| 65°   | 44.6  | 58.9  | 74.7  | 89.1  | 101.2 | 110.0 | 115.1 | 116.5 | 118.4 | 117.9 | 117.0 |
| 67.5° | 33.0  | 43.6  | 55.2  | 65.9  | 74.3  | 79.8  | 83.5  | 86.8  | 86.3  | 85.4  | 84.9  |
| 70°   | 22.7  | 29.7  | 39.9  | 46.4  | 52.5  | 58.0  | 58.9  | 59.4  | 59.9  | 60.3  | 59.4  |
| 72.5° | 15.8  | 20.9  | 26.5  | 32.0  | 35.7  | 38.1  | 40.4  | 40.8  | 40.8  | 40.8  | 40.4  |
| 75°   | 7.9   | 10.7  | 15.8  | 18.1  | 21.4  | 22.3  | 24.1  | 24.1  | 25.5  | 23.7  | 23.2  |
| 77.5° | 7.0   | 8.4   | 11.1  | 13.0  | 14.4  | 15.8  | 16.2  | 17.6  | 17.2  | 16.2  | 16.7  |
| 80°   | 4.2   | 5.1   | 7.0   | 7.9   | 9.7   | 10.2  | 10.7  | 11.1  | 10.7  | 11.1  | 11.1  |
| 82.5° | 3.2   | 3.7   | 4.6   | 4.6   | 6.0   | 6.0   | 6.5   | 6.5   | 7.0   | 7.0   | 7.0   |
| 85°   | 1.9   | 3.2   | 2.8   | 5.6   | 3.7   | 3.7   | 4.6   | 5.6   | 4.6   | 4.6   | 5.6   |
| 87.5° | 1.9   | 1.9   | 1.4   | 1.9   | 1.9   | 1.9   | 2.3   | 2.8   | 2.8   | 3.2   | 2.8   |
| 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: P244658

CATALOG NUMBER: LSR8B20D010 EC8B209730 8LBDW0H

**CANDELA DISTRIBUTION (continued):**

|       | 165°  | 170°  | 175°  | 180°  |
|-------|-------|-------|-------|-------|
| 0°    | 864.8 | 864.8 | 864.8 | 864.8 |
| 2.5°  | 866.2 | 867.1 | 865.7 | 865.2 |
| 5°    | 867.6 | 867.6 | 866.6 | 866.6 |
| 7.5°  | 867.6 | 867.6 | 866.2 | 865.2 |
| 10°   | 863.8 | 863.8 | 862.5 | 861.5 |
| 12.5° | 856.9 | 856.9 | 856.4 | 855.0 |
| 15°   | 848.1 | 848.1 | 846.2 | 844.8 |
| 17.5° | 836.0 | 836.9 | 834.6 | 834.6 |
| 20°   | 823.0 | 822.5 | 820.7 | 819.7 |
| 22.5° | 809.5 | 808.6 | 808.1 | 805.4 |
| 25°   | 795.1 | 794.2 | 792.8 | 791.4 |
| 27.5° | 770.5 | 770.1 | 768.7 | 766.8 |
| 30°   | 732.9 | 732.5 | 730.6 | 730.6 |
| 32.5° | 684.2 | 683.7 | 681.9 | 682.4 |
| 35°   | 633.6 | 635.5 | 634.5 | 632.7 |
| 37.5° | 591.4 | 592.8 | 593.7 | 592.8 |
| 40°   | 556.1 | 560.3 | 560.7 | 561.7 |
| 42.5° | 518.5 | 524.1 | 525.9 | 526.8 |
| 45°   | 473.5 | 478.6 | 482.8 | 481.8 |
| 47.5° | 427.5 | 431.2 | 434.9 | 432.2 |
| 50°   | 383.4 | 385.7 | 387.1 | 387.1 |
| 52.5° | 341.6 | 341.6 | 341.2 | 341.6 |
| 55°   | 293.8 | 293.8 | 292.0 | 292.9 |
| 57.5° | 243.7 | 244.6 | 243.2 | 240.9 |
| 60°   | 197.3 | 195.0 | 194.0 | 192.6 |
| 62.5° | 153.6 | 153.6 | 150.4 | 154.6 |
| 65°   | 115.1 | 113.7 | 112.3 | 111.9 |
| 67.5° | 83.5  | 83.1  | 81.7  | 81.2  |
| 70°   | 58.9  | 57.1  | 56.6  | 55.7  |
| 72.5° | 39.5  | 39.5  | 38.5  | 38.5  |
| 75°   | 24.1  | 21.8  | 21.4  | 21.8  |
| 77.5° | 16.7  | 16.2  | 16.2  | 15.8  |
| 80°   | 11.1  | 10.7  | 11.6  | 10.2  |
| 82.5° | 7.0   | 7.4   | 7.0   | 7.4   |
| 85°   | 4.6   | 5.6   | 5.1   | 5.1   |
| 87.5° | 2.8   | 2.8   | 2.8   | 2.8   |
| 90°   | 0.0   | 0.0   | 0.0   | 0.0   |

(END OF REPORT)