

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: P#

Luminaire Tested: **LD4C15D010 EX4C159035 4LBSQLWWH**

Issue Date: 2/18/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P#  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P219529)  
Test Lab: INNOVATION CENTER  
Issue Date: 2/18/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD4C15D010 EX4C159035 4LBSQLWWH  
Description: 4 INCH 1500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS  
AND 4LBSQLWW TRIM WITH H FINISH  
Light Source: -  
Ballast/Driver: -

**Summary**

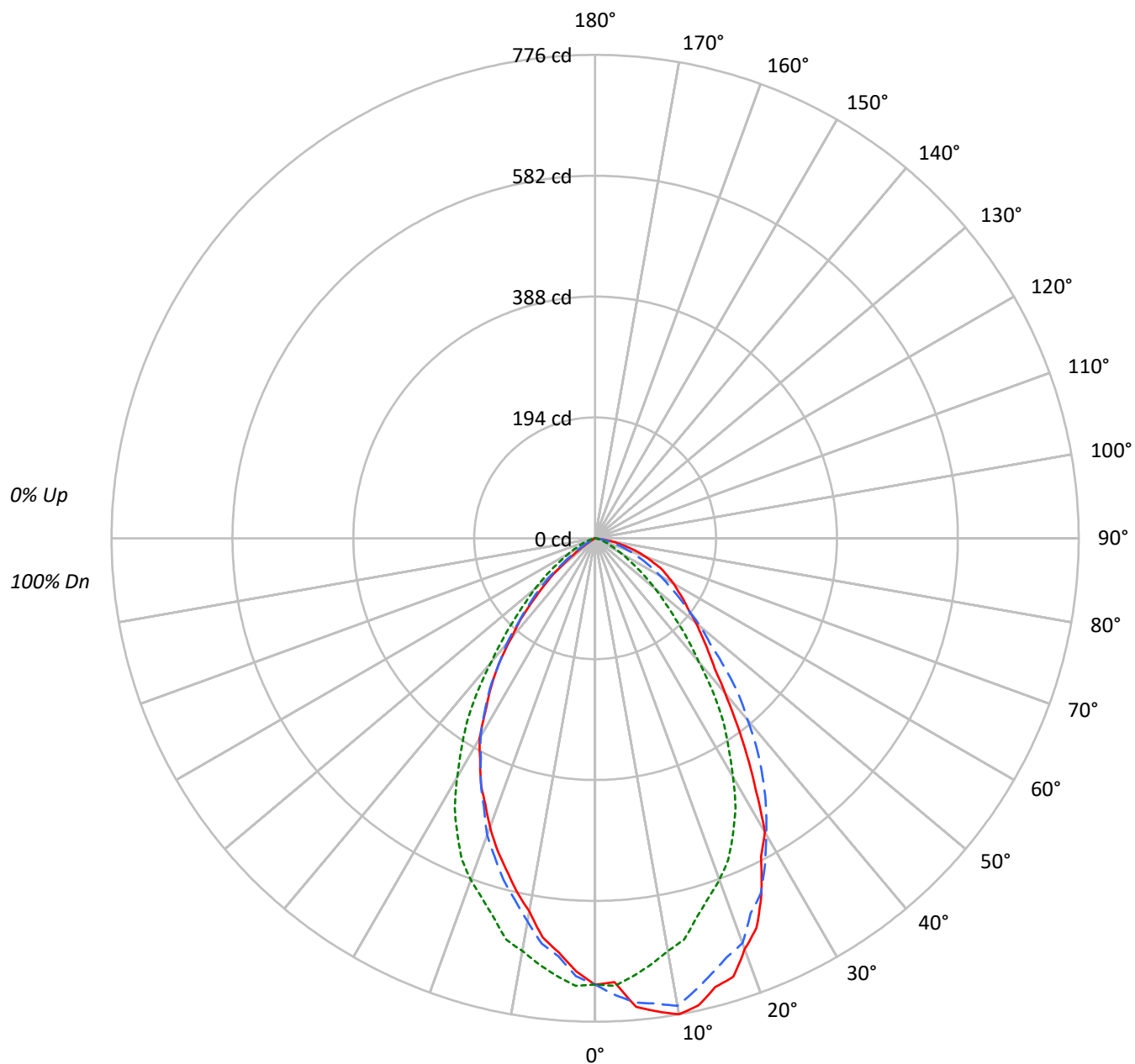
Lumens per Lamp: N/A  
Luminaire Lumens: 1027.0 lumens  
Efficiency: N/A  
Efficacy: 65.0 lumens/watt  
Spacing Criteria (0/90/45): 1.01 / 1 / 1.06  
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 15.8  
Input Voltage (V):  
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: P#

CATALOG NUMBER: LD4C15D010 EX4C159035 4LBSQLWWH

### Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: LD4C15D010 EX4C159035 4LBSQLWWH

**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| RF  | 20  |     |     |     | 20  |     |     |     | 20  |     |     |     | 20  |     |     |     | 20  |
| RC  | 80  |     |     |     | 70  |     |     |     | 50  |     |     |     | 30  |     |     |     | 10  |
| RW  | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 10  |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 |
| 1   | 112 | 108 | 105 | 102 | 109 | 106 | 103 | 101 | 102 | 100 | 98  | 98  | 96  | 95  | 95  | 93  | 92  |
| 2   | 104 | 98  | 93  | 89  | 102 | 96  | 92  | 88  | 93  | 89  | 86  | 90  | 87  | 84  | 87  | 84  | 82  |
| 3   | 97  | 89  | 83  | 78  | 95  | 88  | 82  | 77  | 85  | 80  | 76  | 82  | 78  | 75  | 80  | 77  | 74  |
| 4   | 91  | 81  | 74  | 69  | 89  | 80  | 74  | 69  | 78  | 72  | 68  | 76  | 71  | 67  | 74  | 70  | 66  |
| 5   | 85  | 75  | 67  | 62  | 83  | 74  | 67  | 62  | 72  | 66  | 61  | 70  | 65  | 60  | 68  | 64  | 60  |
| 6   | 80  | 69  | 61  | 56  | 78  | 68  | 61  | 56  | 66  | 60  | 55  | 65  | 59  | 55  | 63  | 58  | 54  |
| 7   | 75  | 63  | 56  | 51  | 73  | 63  | 56  | 51  | 61  | 55  | 50  | 60  | 54  | 50  | 59  | 54  | 50  |
| 8   | 70  | 59  | 52  | 47  | 69  | 58  | 51  | 46  | 57  | 51  | 46  | 56  | 50  | 46  | 55  | 50  | 46  |
| 9   | 66  | 55  | 48  | 43  | 65  | 54  | 47  | 43  | 53  | 47  | 43  | 52  | 46  | 42  | 51  | 46  | 42  |
| 10  | 62  | 51  | 44  | 40  | 61  | 51  | 44  | 40  | 50  | 44  | 39  | 49  | 43  | 39  | 48  | 43  | 39  |

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

|     | 0°    | 90°   | 180°  |
|-----|-------|-------|-------|
| 0°  | 69134 | 69134 | 69134 |
| 5°  | 73137 | 68314 | 64652 |
| 10° | 76011 | 65909 | 59590 |
| 15° | 74490 | 62902 | 55011 |
| 20° | 72072 | 59894 | 50632 |
| 25° | 67221 | 55702 | 46184 |
| 30° | 60688 | 49290 | 41346 |
| 35° | 49991 | 42193 | 34301 |
| 40° | 40798 | 32573 | 26401 |
| 45° | 35056 | 24739 | 18995 |
| 50° | 31718 | 18824 | 11994 |
| 55° | 29187 | 13576 | 4340  |
| 60° | 28020 | 9282  | 656   |
| 65° | 27055 | 6279  | 205   |
| 70° | 24234 | 4345  | 254   |
| 75° | 19870 | 2237  | 0     |
| 80° | 12391 | 945   | 0     |
| 85° | 0     | 0     | 0     |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 67.1   | 6.5       |
| 10°-20°   | 180.9  | 17.6      |
| 20°-30°   | 241.5  | 23.5      |
| 30°-40°   | 229.3  | 22.3      |
| 40°-50°   | 158.5  | 15.4      |
| 50°-60°   | 87.6   | 8.5       |
| 60°-70°   | 43.5   | 4.2       |
| 70°-80°   | 17.1   | 1.7       |
| 80°-90°   | 1.6    | 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°    | 489.5  | 47.7      |
| 0°-40°    | 718.7  | 70.0      |
| 0°-60°    | 964.8  | 93.9      |
| 0°-90°    | 1027.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1027.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0°  | 716 | 716 | 716 | 716  | 716  |      |
| 5°  | 755 | 748 | 705 | 674  | 668  | 72   |
| 15° | 746 | 723 | 630 | 568  | 551  | 211  |
| 25° | 631 | 629 | 523 | 434  | 434  | 288  |
| 35° | 424 | 469 | 358 | 295  | 291  | 266  |
| 45° | 257 | 295 | 181 | 149  | 139  | 200  |
| 55° | 174 | 163 | 81  | 41   | 26   | 156  |
| 65° | 118 | 86  | 28  | 1    | 1    | 115  |
| 75° | 53  | 33  | 6   | 0    | 0    | 57   |
| 85° | 0   | 1   | 0   | 0    | 0    | 5    |
| 90° | 0   | 0   | 0   | 0    | 0    |      |



TEST NUMBER: P#

CATALOG NUMBER: LD4C15D010 EX4C159035 4LBSQLWWH

**CANDELA DISTRIBUTION (FULL):**

|       | 0°    | 5°    | 10°   | 15°   | 20°   | 22.5° | 25°   | 30°   | 35°   | 40°   | 45°   |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 716.5 | 716.5 | 716.5 | 716.5 | 716.5 | 716.5 | 716.5 | 716.5 | 716.5 | 716.5 | 716.5 |
| 2.5°  | 713.0 | 732.8 | 734.5 | 732.8 | 735.4 | 734.5 | 738.8 | 734.5 | 739.7 | 731.9 | 733.7 |
| 5°    | 755.1 | 747.4 | 763.7 | 755.1 | 755.1 | 754.3 | 751.7 | 750.8 | 754.3 | 743.1 | 748.3 |
| 7.5°  | 766.3 | 777.5 | 792.1 | 774.0 | 774.9 | 774.9 | 769.7 | 768.0 | 768.0 | 747.4 | 753.4 |
| 10°   | 775.8 | 768.9 | 776.6 | 769.7 | 775.8 | 774.9 | 778.3 | 767.1 | 774.9 | 762.9 | 762.0 |
| 12.5° | 768.0 | 765.4 | 775.8 | 764.6 | 761.2 | 762.0 | 757.7 | 755.1 | 757.7 | 744.0 | 743.1 |
| 15°   | 745.7 | 748.3 | 763.7 | 751.7 | 750.0 | 748.3 | 743.1 | 734.5 | 741.4 | 722.5 | 723.4 |
| 17.5° | 738.0 | 733.7 | 736.2 | 725.9 | 728.5 | 726.8 | 725.9 | 718.2 | 716.5 | 704.4 | 704.4 |
| 20°   | 701.9 | 711.3 | 711.3 | 704.4 | 704.4 | 703.6 | 692.4 | 699.3 | 691.6 | 688.1 | 691.6 |
| 22.5° | 676.9 | 677.8 | 677.8 | 671.8 | 672.7 | 669.2 | 663.2 | 658.9 | 663.2 | 658.9 | 652.0 |
| 25°   | 631.4 | 633.2 | 643.5 | 632.3 | 630.6 | 634.0 | 628.8 | 626.3 | 625.4 | 615.1 | 628.8 |
| 27.5° | 576.4 | 593.6 | 592.8 | 588.5 | 593.6 | 586.7 | 584.2 | 585.0 | 587.6 | 586.7 | 590.2 |
| 30°   | 544.7 | 547.2 | 549.8 | 546.4 | 547.2 | 544.7 | 544.7 | 545.5 | 552.4 | 549.8 | 548.9 |
| 32.5° | 480.2 | 488.8 | 495.7 | 495.7 | 496.5 | 499.1 | 498.3 | 516.3 | 520.6 | 512.0 | 510.3 |
| 35°   | 424.4 | 430.4 | 436.4 | 437.3 | 448.4 | 449.3 | 450.2 | 455.3 | 467.3 | 469.9 | 469.0 |
| 37.5° | 371.1 | 377.1 | 378.8 | 386.6 | 392.6 | 398.6 | 405.5 | 412.4 | 422.7 | 431.2 | 427.0 |
| 40°   | 323.9 | 326.4 | 330.7 | 334.2 | 346.2 | 346.2 | 349.6 | 363.4 | 374.6 | 381.4 | 380.6 |
| 42.5° | 284.4 | 285.2 | 288.6 | 294.7 | 305.8 | 303.3 | 305.8 | 315.3 | 331.6 | 332.5 | 341.9 |
| 45°   | 256.9 | 256.0 | 258.6 | 259.4 | 266.3 | 269.8 | 271.5 | 278.3 | 292.1 | 293.8 | 294.7 |
| 47.5° | 232.0 | 231.1 | 235.4 | 237.1 | 239.7 | 243.1 | 243.1 | 244.0 | 249.1 | 253.4 | 250.0 |
| 50°   | 211.3 | 211.3 | 211.3 | 213.0 | 217.4 | 216.5 | 217.4 | 220.8 | 223.3 | 221.6 | 220.8 |
| 52.5° | 189.0 | 192.4 | 195.0 | 195.9 | 196.7 | 196.7 | 197.6 | 195.9 | 195.0 | 192.4 | 187.3 |
| 55°   | 173.5 | 177.0 | 177.0 | 177.0 | 177.0 | 180.4 | 176.1 | 177.0 | 177.0 | 170.1 | 163.2 |
| 57.5° | 158.1 | 161.5 | 164.1 | 160.6 | 164.1 | 160.6 | 158.9 | 158.1 | 156.3 | 149.5 | 139.2 |
| 60°   | 145.2 | 146.9 | 146.0 | 145.2 | 146.9 | 144.3 | 142.6 | 139.2 | 137.5 | 128.0 | 121.1 |
| 62.5° | 130.6 | 131.4 | 132.3 | 130.6 | 128.9 | 128.0 | 124.6 | 119.4 | 116.0 | 108.2 | 102.2 |
| 65°   | 118.5 | 116.0 | 115.1 | 114.3 | 112.5 | 110.0 | 107.4 | 101.4 | 98.8  | 91.9  | 85.9  |
| 67.5° | 100.5 | 99.7  | 101.4 | 98.8  | 94.5  | 94.5  | 91.9  | 86.8  | 80.7  | 76.5  | 70.4  |
| 70°   | 85.9  | 85.1  | 83.3  | 80.7  | 79.9  | 76.5  | 76.5  | 70.4  | 68.7  | 61.0  | 55.8  |
| 72.5° | 70.4  | 70.4  | 67.9  | 65.3  | 62.7  | 61.0  | 60.1  | 55.8  | 53.3  | 49.0  | 44.7  |
| 75°   | 53.3  | 53.3  | 52.4  | 49.8  | 48.1  | 46.4  | 45.5  | 42.1  | 39.5  | 35.2  | 32.6  |
| 77.5° | 37.8  | 37.8  | 34.4  | 32.6  | 33.5  | 31.8  | 30.1  | 29.2  | 28.3  | 25.8  | 22.3  |
| 80°   | 22.3  | 21.5  | 18.9  | 19.8  | 18.9  | 18.9  | 18.0  | 17.2  | 15.4  | 13.7  | 12.0  |
| 82.5° | 6.0   | 6.9   | 6.9   | 6.9   | 7.7   | 6.0   | 6.0   | 6.0   | 6.9   | 6.9   | 4.3   |
| 85°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.9   | 0.9   | 0.9   |
| 87.5° | 0.9   | 1.7   | 3.4   | 3.4   | 3.4   | 3.4   | 3.4   | 2.6   | 2.6   | 2.6   | 1.7   |
| 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: P#

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**CANDELA DISTRIBUTION (continued):**

|       | 50°   | 55°   | 60°   | 65°   | 67.5° | 70°   | 75°   | 80°   | 85°   | 90°   | 95°   |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 716.5 | 716.5 | 716.5 | 716.5 | 716.5 | 716.5 | 716.5 | 716.5 | 716.5 | 716.5 | 716.5 |
| 2.5°  | 725.1 | 724.2 | 725.1 | 719.1 | 732.8 | 722.5 | 720.8 | 719.1 | 725.1 | 719.1 | 710.5 |
| 5°    | 740.5 | 731.9 | 729.3 | 726.8 | 734.5 | 722.5 | 719.9 | 720.8 | 716.5 | 705.3 | 706.2 |
| 7.5°  | 745.7 | 738.0 | 730.2 | 713.9 | 720.8 | 718.2 | 711.3 | 706.2 | 699.3 | 689.8 | 688.1 |
| 10°   | 747.4 | 738.8 | 727.6 | 722.5 | 712.2 | 708.8 | 706.2 | 697.6 | 689.0 | 672.7 | 668.4 |
| 12.5° | 742.2 | 731.9 | 718.2 | 713.9 | 706.2 | 695.0 | 689.0 | 680.4 | 672.7 | 659.8 | 650.3 |
| 15°   | 719.9 | 711.3 | 707.0 | 692.4 | 689.0 | 682.1 | 670.1 | 658.1 | 646.9 | 629.7 | 624.5 |
| 17.5° | 694.1 | 690.7 | 686.4 | 675.2 | 674.4 | 667.5 | 656.3 | 646.0 | 631.4 | 604.8 | 596.2 |
| 20°   | 667.5 | 667.5 | 653.8 | 649.5 | 658.1 | 644.3 | 635.7 | 626.3 | 596.2 | 583.3 | 567.9 |
| 22.5° | 647.8 | 638.3 | 630.6 | 623.7 | 624.5 | 616.0 | 603.9 | 585.0 | 573.9 | 558.4 | 540.4 |
| 25°   | 609.1 | 612.5 | 595.4 | 592.8 | 595.4 | 575.6 | 569.6 | 554.1 | 537.8 | 523.2 | 509.4 |
| 27.5° | 585.0 | 575.6 | 564.4 | 555.0 | 555.0 | 547.2 | 530.1 | 526.6 | 501.7 | 488.0 | 470.8 |
| 30°   | 548.9 | 542.1 | 532.6 | 518.9 | 517.2 | 511.2 | 497.4 | 488.8 | 463.1 | 442.4 | 433.0 |
| 32.5° | 503.4 | 500.9 | 493.1 | 477.7 | 472.5 | 465.6 | 448.4 | 433.8 | 421.8 | 398.6 | 387.5 |
| 35°   | 470.8 | 461.3 | 445.0 | 432.1 | 427.8 | 415.8 | 402.0 | 391.7 | 378.8 | 358.2 | 343.6 |
| 37.5° | 421.8 | 412.4 | 396.9 | 381.4 | 381.4 | 369.4 | 350.5 | 340.2 | 322.2 | 310.1 | 298.1 |
| 40°   | 378.8 | 366.8 | 351.4 | 333.3 | 330.7 | 313.5 | 305.8 | 288.6 | 277.5 | 258.6 | 256.9 |
| 42.5° | 330.7 | 319.6 | 305.8 | 292.1 | 281.8 | 273.2 | 253.4 | 240.5 | 228.5 | 219.1 | 216.5 |
| 45°   | 286.9 | 272.3 | 260.3 | 243.1 | 232.8 | 222.5 | 209.6 | 201.0 | 191.6 | 181.3 | 175.3 |
| 47.5° | 249.1 | 237.1 | 219.9 | 204.5 | 194.2 | 189.0 | 174.4 | 165.0 | 157.2 | 150.3 | 146.0 |
| 50°   | 210.5 | 195.9 | 186.4 | 169.2 | 167.5 | 155.5 | 143.5 | 135.7 | 131.4 | 125.4 | 119.4 |
| 52.5° | 181.3 | 167.5 | 154.6 | 141.8 | 134.9 | 130.6 | 119.4 | 111.7 | 105.7 | 101.4 | 97.9  |
| 55°   | 152.9 | 140.9 | 130.6 | 117.7 | 113.4 | 107.4 | 94.5  | 92.8  | 86.8  | 80.7  | 76.5  |
| 57.5° | 131.4 | 120.3 | 108.2 | 99.7  | 91.9  | 87.6  | 77.3  | 70.4  | 67.0  | 61.9  | 57.6  |
| 60°   | 111.7 | 99.7  | 90.2  | 79.9  | 76.5  | 70.4  | 62.7  | 56.7  | 52.4  | 48.1  | 43.8  |
| 62.5° | 93.6  | 83.3  | 73.0  | 64.4  | 59.3  | 55.8  | 49.8  | 44.7  | 40.4  | 37.0  | 33.5  |
| 65°   | 77.3  | 67.9  | 59.3  | 50.7  | 48.1  | 43.8  | 39.5  | 35.2  | 31.8  | 27.5  | 24.1  |
| 67.5° | 63.6  | 55.0  | 46.4  | 40.4  | 37.8  | 36.1  | 30.9  | 26.6  | 24.1  | 21.5  | 18.0  |
| 70°   | 49.8  | 43.8  | 37.0  | 31.8  | 29.2  | 26.6  | 23.2  | 20.6  | 17.2  | 15.4  | 12.9  |
| 72.5° | 38.7  | 33.5  | 27.5  | 23.2  | 21.5  | 19.8  | 16.3  | 13.7  | 12.0  | 10.3  | 8.6   |
| 75°   | 27.5  | 23.2  | 19.8  | 15.4  | 14.6  | 13.7  | 11.2  | 9.5   | 7.7   | 6.0   | 5.1   |
| 77.5° | 18.9  | 15.4  | 12.0  | 10.3  | 9.5   | 7.7   | 6.9   | 5.1   | 4.3   | 3.4   | 2.6   |
| 80°   | 10.3  | 7.7   | 6.0   | 5.1   | 4.3   | 3.4   | 3.4   | 2.6   | 1.7   | 1.7   | 0.9   |
| 82.5° | 3.4   | 2.6   | 1.7   | 0.9   | 0.9   | 0.9   | 0.9   | 0.9   | 0.9   | 0.0   | 0.9   |
| 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° | 0.9   | 0.9   | 0.9   | 0.9   | 0.9   | 0.9   | 0.9   | 0.9   | 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: P#

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**CANDELA DISTRIBUTION (continued):**

|       | 100°  | 105°  | 110°  | 112.5° | 115°  | 120°  | 125°  | 130°  | 135°  | 140°  | 145°  |
|-------|-------|-------|-------|--------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 716.5 | 716.5 | 716.5 | 716.5  | 716.5 | 716.5 | 716.5 | 716.5 | 716.5 | 716.5 | 716.5 |
| 2.5°  | 715.6 | 706.2 | 708.8 | 708.8  | 707.0 | 707.0 | 705.3 | 702.7 | 703.6 | 698.4 | 687.3 |
| 5°    | 707.9 | 695.9 | 694.1 | 695.9  | 689.0 | 687.3 | 683.8 | 689.0 | 673.5 | 679.5 | 672.7 |
| 7.5°  | 685.6 | 674.4 | 671.8 | 677.8  | 669.2 | 664.1 | 663.2 | 670.1 | 656.3 | 649.5 | 641.7 |
| 10°   | 660.6 | 656.3 | 648.6 | 644.3  | 641.7 | 642.6 | 635.7 | 627.1 | 624.5 | 622.8 | 616.0 |
| 12.5° | 638.3 | 628.8 | 622.0 | 616.8  | 615.1 | 615.1 | 603.9 | 602.2 | 594.5 | 592.8 | 582.5 |
| 15°   | 611.7 | 600.5 | 596.2 | 589.3  | 583.3 | 586.7 | 573.9 | 570.4 | 567.9 | 556.7 | 558.4 |
| 17.5° | 588.5 | 576.4 | 566.1 | 561.8  | 556.7 | 551.5 | 539.5 | 542.1 | 536.1 | 536.1 | 520.6 |
| 20°   | 558.4 | 545.5 | 537.8 | 529.2  | 529.2 | 522.3 | 513.7 | 514.6 | 506.8 | 499.1 | 485.4 |
| 22.5° | 526.6 | 512.9 | 503.4 | 500.0  | 491.4 | 489.7 | 479.4 | 476.8 | 466.5 | 467.3 | 455.3 |
| 25°   | 493.1 | 479.4 | 466.5 | 467.3  | 459.6 | 456.2 | 450.2 | 438.1 | 433.8 | 428.7 | 425.3 |
| 27.5° | 453.6 | 444.1 | 433.0 | 432.1  | 417.5 | 418.4 | 410.7 | 407.2 | 396.9 | 399.5 | 391.7 |
| 30°   | 417.5 | 403.8 | 393.5 | 390.9  | 384.9 | 383.2 | 371.1 | 366.0 | 367.7 | 360.8 | 356.5 |
| 32.5° | 380.6 | 360.0 | 355.7 | 350.5  | 347.1 | 342.8 | 334.2 | 337.6 | 329.9 | 331.6 | 324.7 |
| 35°   | 331.6 | 323.0 | 311.8 | 311.8  | 308.4 | 305.0 | 299.0 | 302.4 | 294.7 | 291.2 | 284.4 |
| 37.5° | 290.4 | 282.7 | 271.5 | 274.9  | 268.9 | 263.7 | 258.6 | 259.4 | 252.6 | 251.7 | 244.8 |
| 40°   | 245.7 | 241.4 | 233.7 | 233.7  | 229.4 | 229.4 | 226.8 | 224.2 | 219.9 | 214.8 | 207.0 |
| 42.5° | 203.6 | 200.2 | 196.7 | 197.6  | 191.6 | 196.7 | 189.9 | 194.2 | 180.4 | 179.6 | 174.4 |
| 45°   | 172.7 | 165.0 | 165.8 | 162.4  | 158.9 | 160.6 | 154.6 | 156.3 | 148.6 | 146.9 | 141.8 |
| 47.5° | 140.0 | 137.5 | 132.3 | 130.6  | 130.6 | 128.0 | 125.4 | 124.6 | 121.1 | 116.8 | 110.0 |
| 50°   | 115.1 | 105.7 | 103.9 | 101.4  | 99.7  | 99.7  | 96.2  | 91.1  | 91.9  | 87.6  | 80.7  |
| 52.5° | 90.2  | 82.5  | 79.0  | 78.2   | 74.8  | 73.0  | 68.7  | 65.3  | 62.7  | 61.0  | 56.7  |
| 55°   | 69.6  | 62.7  | 58.4  | 58.4   | 53.3  | 53.3  | 47.3  | 44.7  | 41.2  | 37.8  | 35.2  |
| 57.5° | 52.4  | 49.0  | 44.7  | 41.2   | 39.5  | 35.2  | 31.8  | 27.5  | 24.9  | 19.8  | 16.3  |
| 60°   | 39.5  | 36.1  | 31.8  | 29.2   | 27.5  | 23.2  | 18.9  | 15.4  | 9.5   | 7.7   | 6.9   |
| 62.5° | 29.2  | 25.8  | 21.5  | 19.8   | 18.0  | 14.6  | 10.3  | 5.1   | 2.6   | 2.6   | 2.6   |
| 65°   | 21.5  | 17.2  | 13.7  | 12.0   | 10.3  | 7.7   | 3.4   | 1.7   | 0.9   | 0.9   | 0.9   |
| 67.5° | 14.6  | 11.2  | 7.7   | 6.9    | 5.1   | 2.6   | 0.9   | 0.9   | 0.9   | 0.9   | 0.9   |
| 70°   | 9.5   | 6.9   | 3.4   | 2.6    | 1.7   | 0.9   | 0.9   | 0.9   | 0.9   | 0.9   | 0.9   |
| 72.5° | 6.0   | 3.4   | 1.7   | 0.9    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 75°   | 3.4   | 1.7   | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 77.5° | 1.7   | 0.9   | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 80°   | 0.9   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 82.5° | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 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   | 0.9   | 0.9   | 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   |



TEST NUMBER: P#

CATALOG NUMBER: LD4C15D010 EX4C159035 4LBSQLWWH

**CANDELA DISTRIBUTION (continued):**

|       | 150°  | 155°  | 157.5° | 160°  | 165°  | 170°  | 175°  | 180°  |
|-------|-------|-------|--------|-------|-------|-------|-------|-------|
| 0°    | 716.5 | 716.5 | 716.5  | 716.5 | 716.5 | 716.5 | 716.5 | 716.5 |
| 2.5°  | 699.3 | 693.3 | 696.7  | 689.0 | 692.4 | 698.4 | 694.1 | 695.9 |
| 5°    | 675.2 | 671.8 | 667.5  | 656.3 | 664.9 | 671.8 | 668.4 | 667.5 |
| 7.5°  | 649.5 | 637.4 | 643.5  | 640.0 | 638.3 | 645.2 | 637.4 | 646.0 |
| 10°   | 622.8 | 614.2 | 613.4  | 607.4 | 607.4 | 612.5 | 613.4 | 608.2 |
| 12.5° | 583.3 | 579.0 | 579.0  | 578.2 | 577.3 | 582.5 | 583.3 | 580.8 |
| 15°   | 555.0 | 553.3 | 548.9  | 548.1 | 543.0 | 550.7 | 551.5 | 550.7 |
| 17.5° | 520.6 | 521.4 | 517.2  | 517.2 | 520.6 | 523.2 | 516.3 | 523.2 |
| 20°   | 497.4 | 493.1 | 491.4  | 483.7 | 488.0 | 492.3 | 492.3 | 493.1 |
| 22.5° | 463.9 | 457.0 | 459.6  | 455.3 | 452.7 | 458.7 | 458.7 | 461.3 |
| 25°   | 426.1 | 426.1 | 427.8  | 425.3 | 427.0 | 430.4 | 427.8 | 433.8 |
| 27.5° | 390.0 | 393.5 | 393.5  | 390.0 | 391.7 | 402.0 | 406.3 | 399.5 |
| 30°   | 356.5 | 357.4 | 360.0  | 358.2 | 363.4 | 366.8 | 366.0 | 371.1 |
| 32.5° | 318.7 | 323.0 | 324.7  | 322.2 | 323.9 | 331.6 | 327.3 | 326.4 |
| 35°   | 289.5 | 281.8 | 280.9  | 281.8 | 285.2 | 286.9 | 285.2 | 291.2 |
| 37.5° | 247.4 | 244.8 | 241.4  | 242.3 | 244.8 | 248.3 | 250.0 | 254.3 |
| 40°   | 207.0 | 203.6 | 203.6  | 202.8 | 200.2 | 209.6 | 209.6 | 209.6 |
| 42.5° | 171.8 | 170.9 | 166.7  | 166.7 | 170.1 | 172.7 | 170.9 | 177.0 |
| 45°   | 140.9 | 137.5 | 134.9  | 134.9 | 137.5 | 137.5 | 140.0 | 139.2 |
| 47.5° | 110.8 | 107.4 | 108.2  | 105.7 | 108.2 | 111.7 | 107.4 | 108.2 |
| 50°   | 83.3  | 83.3  | 81.6   | 83.3  | 82.5  | 83.3  | 81.6  | 79.9  |
| 52.5° | 56.7  | 64.4  | 65.3   | 61.9  | 54.1  | 47.3  | 42.9  | 46.4  |
| 55°   | 32.6  | 29.2  | 29.2   | 28.3  | 26.6  | 25.8  | 23.2  | 25.8  |
| 57.5° | 16.3  | 14.6  | 14.6   | 14.6  | 13.7  | 12.9  | 11.2  | 11.2  |
| 60°   | 6.9   | 6.0   | 6.0    | 5.1   | 4.3   | 3.4   | 2.6   | 3.4   |
| 62.5° | 2.6   | 1.7   | 1.7    | 1.7   | 1.7   | 1.7   | 1.7   | 1.7   |
| 65°   | 0.9   | 0.9   | 0.9    | 0.9   | 0.9   | 0.9   | 0.9   | 0.9   |
| 67.5° | 0.9   | 0.9   | 0.9    | 0.9   | 0.9   | 0.9   | 0.9   | 0.9   |
| 70°   | 0.9   | 0.9   | 0.9    | 0.9   | 0.9   | 0.9   | 0.9   | 0.9   |
| 72.5° | 0.0   | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 75°   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 77.5° | 0.0   | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 80°   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 82.5° | 0.0   | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 85°   | 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   |
| 90°   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |



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— 0°-180°    - - 45°-225°    - - - 90°-270°













(END OF REPORT)