

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: NEO-RAY

Report Number: P333396-840

Luminaire Tested: **S125DIW-S610D1560U840-4F0-1E-UDD-D**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P333396-840  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-7,  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: S125DIW-S610D1560U840-4F0-1E-UDD-D  
Description: DEFINE 5 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE  
DOWNLIGHT 610 LUMENS PER FOOT, DROP SATIN WHITE DIFFUSER  
UPLIGHT 1560 LUMENS PER FOOT, NO LENS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8725.8 lumens  
Efficiency: N/A  
Efficacy: 144.0 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34  
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.08')  
CIE Type: Semi-Indirect

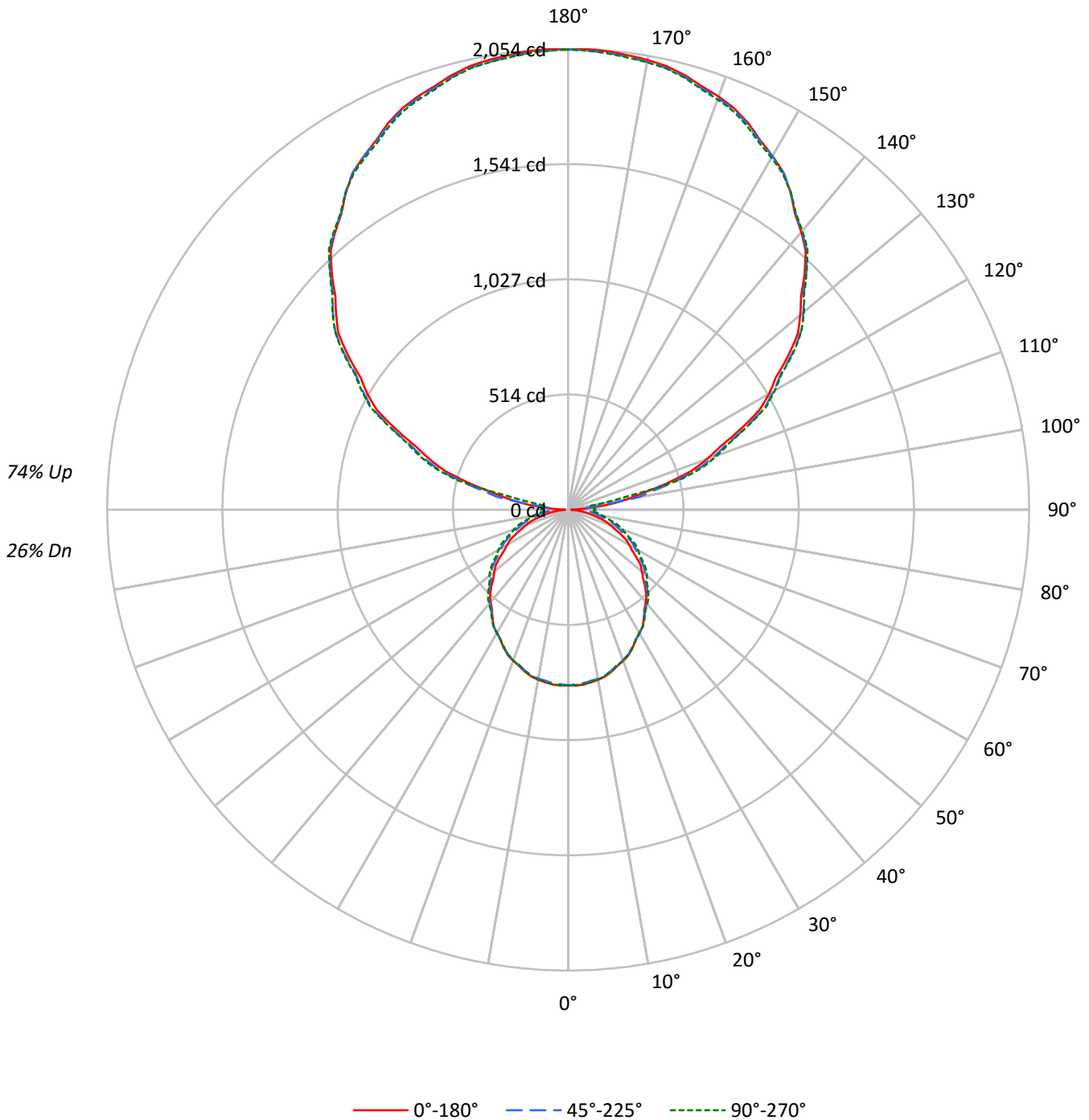
Input Watts (W): 60.6  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P333396-840

CATALOG NUMBER: S125DIW-S610D1560U840-4F0-1E-UDD-D

### Luminous Intensity Polar Plot





TEST NUMBER: P333396-840

CATALOG NUMBER: S125DIW-S610D1560U840-4F0-1E-UDD-D

**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   | 101 | 101 | 101 | 101 | 91 | 91 | 91 | 91 | 70 | 70 | 70 | 51 | 51 | 51 | 34 | 34 | 34 | 26 |
| 1   | 92  | 88  | 84  | 80  | 82 | 78 | 75 | 72 | 61 | 58 | 56 | 44 | 43 | 42 | 30 | 29 | 28 | 21 |
| 2   | 84  | 76  | 70  | 65  | 74 | 68 | 63 | 59 | 53 | 49 | 46 | 39 | 37 | 35 | 26 | 24 | 23 | 17 |
| 3   | 76  | 67  | 60  | 54  | 68 | 60 | 54 | 49 | 46 | 42 | 39 | 34 | 31 | 29 | 23 | 21 | 20 | 15 |
| 4   | 69  | 59  | 51  | 45  | 62 | 53 | 46 | 41 | 41 | 36 | 33 | 30 | 27 | 25 | 20 | 18 | 17 | 12 |
| 5   | 64  | 52  | 44  | 39  | 56 | 47 | 40 | 35 | 37 | 32 | 28 | 27 | 24 | 21 | 18 | 16 | 15 | 11 |
| 6   | 58  | 47  | 39  | 33  | 52 | 42 | 35 | 30 | 33 | 28 | 24 | 24 | 21 | 18 | 16 | 14 | 13 | 9  |
| 7   | 54  | 42  | 34  | 29  | 48 | 38 | 31 | 26 | 30 | 25 | 21 | 22 | 19 | 16 | 15 | 13 | 11 | 8  |
| 8   | 50  | 38  | 30  | 25  | 44 | 34 | 28 | 23 | 27 | 22 | 19 | 20 | 17 | 14 | 14 | 12 | 10 | 7  |
| 9   | 46  | 34  | 27  | 22  | 41 | 31 | 25 | 20 | 25 | 20 | 17 | 18 | 15 | 13 | 13 | 10 | 9  | 7  |
| 10  | 43  | 31  | 24  | 20  | 38 | 28 | 22 | 18 | 22 | 18 | 15 | 17 | 14 | 11 | 12 | 10 | 8  | 6  |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 5054 | 5054 | 5054 |
| 5°  | 5064 | 4961 | 4977 |
| 10° | 5029 | 4873 | 4865 |
| 15° | 4969 | 4767 | 4723 |
| 20° | 4888 | 4635 | 4581 |
| 25° | 4792 | 4495 | 4406 |
| 30° | 4676 | 4340 | 4247 |
| 35° | 4567 | 4199 | 4102 |
| 40° | 4457 | 4049 | 3955 |
| 45° | 4331 | 3922 | 3825 |
| 50° | 4213 | 3783 | 3710 |
| 55° | 4069 | 3652 | 3575 |
| 60° | 3913 | 3503 | 3437 |
| 65° | 3749 | 3347 | 3282 |
| 70° | 3561 | 3133 | 3123 |
| 75° | 3269 | 2928 | 2928 |
| 80° | 2884 | 2679 | 2713 |
| 85° | 2526 | 2512 | 2645 |



TEST NUMBER: P333396-840

CATALOG NUMBER: S125DIW-S610D1560U840-4F0-1E-UDD-D

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 74.0   | 0.8       |
| 10°-20°   | 210.1  | 2.4       |
| 20°-30°   | 312.4  | 3.6       |
| 30°-40°   | 370.1  | 4.2       |
| 40°-50°   | 382.6  | 4.4       |
| 50°-60°   | 352.5  | 4.0       |
| 60°-70°   | 284.9  | 3.3       |
| 70°-80°   | 190.8  | 2.2       |
| 80°-90°   | 103.2  | 1.2       |
| 90°-100°  | 130.1  | 1.5       |
| 100°-110° | 500.2  | 5.7       |
| 110°-120° | 860.4  | 9.9       |
| 120°-130° | 1084.6 | 12.4      |
| 130°-140° | 1156.7 | 13.3      |
| 140°-150° | 1080.7 | 12.4      |
| 150°-160° | 873.1  | 10.0      |
| 160°-170° | 564.7  | 6.5       |
| 170°-180° | 194.8  | 2.2       |
| 0°-30°    | 596.5  | 6.8       |
| 0°-40°    | 966.6  | 11.1      |
| 0°-60°    | 1701.7 | 19.5      |
| 0°-90°    | 2280.6 | 26.1      |
| 90°-120°  | 1490.7 | 17.1      |
| 90°-150°  | 4812.7 | 55.2      |
| 90°-180°  | 6445.0 | 73.9      |
| 0°-180°   | 8725.8 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 783  | 783   | 783  | 783   | 783  |      |
| 5°   | 783  | 781   | 776  | 781   | 781  | 74   |
| 15°  | 747  | 748   | 743  | 747   | 744  | 210  |
| 25°  | 679  | 681   | 677  | 679   | 676  | 312  |
| 35°  | 588  | 593   | 591  | 593   | 593  | 368  |
| 45°  | 484  | 492   | 496  | 502   | 503  | 373  |
| 55°  | 372  | 384   | 397  | 405   | 408  | 333  |
| 65°  | 256  | 274   | 292  | 303   | 307  | 254  |
| 75°  | 141  | 161   | 186  | 200   | 205  | 150  |
| 85°  | 42   | 68    | 94   | 111   | 117  | 45   |
| 90°  | 14   | 51    | 87   | 112   | 122  | 12   |
| 95°  | 97   | 109   | 80   | 104   | 110  | 118  |
| 105° | 454  | 472   | 495  | 510   | 514  | 481  |
| 115° | 844  | 857   | 878  | 885   | 881  | 836  |
| 125° | 1196 | 1207  | 1222 | 1228  | 1227 | 1068 |
| 135° | 1490 | 1498  | 1500 | 1507  | 1502 | 1148 |
| 145° | 1726 | 1728  | 1728 | 1733  | 1728 | 1079 |
| 155° | 1900 | 1892  | 1894 | 1898  | 1886 | 875  |
| 165° | 2005 | 1997  | 1998 | 2006  | 1994 | 566  |
| 175° | 2051 | 2042  | 2043 | 2054  | 2042 | 195  |
| 180° | 2051 | 2051  | 2051 | 2051  | 2051 |      |



TEST NUMBER: P333396-840

CATALOG NUMBER: S125DIW-S610D1560U840-4F0-1E-UDD-D

**CANDELA DISTRIBUTION (FULL):**

|        | 0°    | 5°    | 10°   | 15°   | 20°   | 25°   | 30°   | 35°   | 40°   | 45°   | 50°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°     | 782.6 | 782.6 | 782.6 | 782.6 | 782.6 | 782.6 | 782.6 | 782.6 | 782.6 | 782.6 | 782.6 |
| 2.5°   | 784.5 | 784.2 | 784.0 | 783.7 | 783.4 | 782.7 | 781.8 | 780.8 | 779.9 | 778.9 | 779.9 |
| 5°     | 782.6 | 782.2 | 781.9 | 781.6 | 781.2 | 780.5 | 779.3 | 778.1 | 776.9 | 775.7 | 777.1 |
| 7.5°   | 775.7 | 775.6 | 775.5 | 775.3 | 775.2 | 774.5 | 773.3 | 772.0 | 770.8 | 769.6 | 770.7 |
| 10°    | 769.6 | 769.6 | 769.6 | 769.6 | 769.6 | 768.9 | 767.5 | 766.2 | 764.8 | 763.5 | 764.7 |
| 12.5°  | 761.0 | 761.1 | 761.2 | 761.4 | 761.5 | 761.0 | 759.9 | 758.9 | 757.8 | 756.7 | 757.6 |
| 15°    | 747.3 | 747.5 | 747.7 | 747.8 | 748.0 | 747.5 | 746.3 | 745.1 | 744.0 | 742.8 | 743.8 |
| 17.5°  | 729.5 | 729.8 | 730.2 | 730.5 | 730.9 | 730.4 | 729.3 | 728.1 | 726.9 | 725.7 | 726.5 |
| 20°    | 716.6 | 717.0 | 717.3 | 717.7 | 718.0 | 717.6 | 716.4 | 715.2 | 714.0 | 712.8 | 713.3 |
| 22.5°  | 702.0 | 702.6 | 703.2 | 703.8 | 704.4 | 704.0 | 702.7 | 701.4 | 700.0 | 698.7 | 699.3 |
| 25°    | 679.0 | 679.5 | 680.0 | 680.5 | 681.1 | 680.9 | 679.8 | 678.8 | 677.7 | 676.7 | 677.4 |
| 27.5°  | 653.6 | 654.3 | 655.1 | 655.8 | 656.6 | 656.4 | 655.2 | 654.1 | 652.9 | 651.8 | 652.2 |
| 30°    | 634.5 | 635.6 | 636.6 | 637.6 | 638.6 | 638.6 | 637.6 | 636.6 | 635.6 | 634.5 | 634.9 |
| 32.5°  | 617.3 | 618.2 | 619.1 | 620.1 | 620.9 | 621.0 | 620.3 | 619.5 | 618.7 | 617.9 | 618.3 |
| 35°    | 587.7 | 589.0 | 590.2 | 591.3 | 592.5 | 592.9 | 592.4 | 591.8 | 591.3 | 590.8 | 591.3 |
| 37.5°  | 558.2 | 559.3 | 560.3 | 561.4 | 562.5 | 562.9 | 562.8 | 562.6 | 562.4 | 562.3 | 562.9 |
| 40°    | 537.9 | 539.3 | 540.6 | 542.0 | 543.3 | 543.9 | 543.7 | 543.6 | 543.4 | 543.2 | 543.9 |
| 42.5°  | 515.7 | 517.6 | 519.3 | 521.1 | 522.9 | 523.9 | 524.3 | 524.7 | 525.0 | 525.4 | 526.2 |
| 45°    | 484.1 | 486.0 | 487.9 | 489.8 | 491.7 | 493.0 | 493.9 | 494.7 | 495.5 | 496.4 | 497.7 |
| 47.5°  | 451.8 | 453.5 | 455.2 | 457.0 | 458.8 | 460.3 | 461.8 | 463.2 | 464.7 | 466.2 | 468.0 |
| 50°    | 429.7 | 431.5 | 433.4 | 435.4 | 437.2 | 439.1 | 440.9 | 442.8 | 444.6 | 446.6 | 448.5 |
| 52.5°  | 406.4 | 408.6 | 410.9 | 413.2 | 415.5 | 417.8 | 420.1 | 422.3 | 424.6 | 426.9 | 428.9 |
| 55°    | 372.1 | 374.9 | 377.6 | 380.3 | 383.0 | 385.8 | 388.5 | 391.2 | 393.9 | 396.7 | 398.6 |
| 57.5°  | 337.2 | 340.4 | 343.7 | 347.0 | 350.2 | 353.5 | 356.6 | 359.7 | 362.8 | 366.0 | 368.1 |
| 60°    | 313.9 | 317.2 | 320.6 | 324.1 | 327.5 | 330.8 | 334.3 | 337.7 | 341.1 | 344.5 | 347.1 |
| 62.5°  | 291.1 | 294.5 | 297.9 | 301.3 | 304.8 | 308.3 | 311.9 | 315.7 | 319.3 | 323.1 | 325.9 |
| 65°    | 256.3 | 260.2 | 264.1 | 268.0 | 272.0 | 276.0 | 280.0 | 284.2 | 288.2 | 292.4 | 294.9 |
| 67.5°  | 223.5 | 227.2 | 231.0 | 234.8 | 238.5 | 242.6 | 246.7 | 250.9 | 255.0 | 259.2 | 262.3 |
| 70°    | 199.4 | 203.4 | 207.3 | 211.3 | 215.2 | 219.3 | 223.8 | 228.2 | 232.7 | 237.1 | 240.3 |
| 72.5°  | 176.1 | 180.3 | 184.3 | 188.3 | 192.4 | 196.8 | 201.7 | 206.5 | 211.4 | 216.2 | 219.7 |
| 75°    | 141.2 | 145.6 | 150.1 | 154.5 | 159.0 | 163.9 | 169.4 | 174.8 | 180.3 | 185.7 | 189.0 |
| 77.5°  | 107.6 | 112.7 | 117.9 | 122.9 | 128.1 | 133.2 | 138.5 | 143.7 | 149.0 | 154.2 | 157.9 |
| 80°    | 86.7  | 91.8  | 96.9  | 102.1 | 107.1 | 112.6 | 118.5 | 124.2 | 130.0 | 135.8 | 139.6 |
| 82.5°  | 67.7  | 73.0  | 78.5  | 83.8  | 89.3  | 94.9  | 100.8 | 106.7 | 112.7 | 118.7 | 122.2 |
| 85°    | 42.2  | 47.9  | 53.4  | 59.1  | 64.7  | 70.5  | 76.4  | 82.4  | 88.4  | 94.4  | 98.2  |
| 87.5°  | 24.2  | 30.2  | 36.3  | 42.2  | 48.3  | 54.3  | 60.6  | 67.0  | 73.2  | 79.5  | 83.7  |
| 90°    | 13.8  | 21.9  | 30.1  | 38.3  | 46.5  | 54.6  | 62.7  | 70.9  | 79.1  | 87.3  | 92.8  |
| 92.5°  | 34.4  | 37.6  | 40.8  | 43.9  | 47.1  | 52.7  | 60.7  | 68.8  | 76.7  | 84.8  | 90.3  |
| 95°    | 96.6  | 100.1 | 103.5 | 106.8 | 110.3 | 108.5 | 101.5 | 94.4  | 87.4  | 80.4  | 85.7  |
| 97.5°  | 190.0 | 195.8 | 201.6 | 207.4 | 213.2 | 206.2 | 186.4 | 166.6 | 146.7 | 126.9 | 121.0 |
| 100°   | 262.4 | 266.9 | 271.6 | 276.1 | 280.6 | 286.4 | 293.2 | 300.0 | 306.8 | 313.7 | 266.9 |
| 102.5° | 335.9 | 340.5 | 345.1 | 349.6 | 354.3 | 359.6 | 365.8 | 371.8 | 378.0 | 384.2 | 378.1 |
| 105°   | 453.8 | 458.0 | 462.0 | 466.1 | 470.2 | 474.7 | 479.9 | 485.0 | 490.1 | 495.2 | 498.7 |
| 107.5° | 576.3 | 578.7 | 581.0 | 583.3 | 585.6 | 589.6 | 595.2 | 600.8 | 606.3 | 612.0 | 615.4 |
| 110°   | 656.0 | 658.0 | 660.1 | 662.2 | 664.2 | 667.9 | 673.4 | 678.8 | 684.3 | 689.7 | 692.0 |



TEST NUMBER: P333396-840

CATALOG NUMBER: S125DIW-S610D1560U840-4F0-1E-UDD-D

**CANDELA DISTRIBUTION (continued):**

|        | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 731.4  | 733.9  | 736.3  | 738.7  | 741.2  | 745.0  | 750.0  | 755.1  | 760.1  | 765.2  | 767.0  |
| 115°   | 843.7  | 846.7  | 849.5  | 852.4  | 855.3  | 859.1  | 863.8  | 868.7  | 873.4  | 878.2  | 879.9  |
| 117.5° | 960.1  | 960.8  | 961.5  | 962.2  | 962.9  | 966.0  | 971.5  | 976.9  | 982.4  | 988.0  | 989.1  |
| 120°   | 1033.0 | 1033.2 | 1033.4 | 1033.5 | 1033.7 | 1036.2 | 1041.2 | 1046.1 | 1051.1 | 1056.0 | 1058.2 |
| 122.5° | 1096.8 | 1098.3 | 1099.9 | 1101.5 | 1103.0 | 1105.8 | 1110.1 | 1114.4 | 1118.6 | 1122.9 | 1125.0 |
| 125°   | 1196.4 | 1198.6 | 1200.8 | 1203.1 | 1205.2 | 1208.0 | 1211.4 | 1214.9 | 1218.2 | 1221.6 | 1223.0 |
| 127.5° | 1290.8 | 1292.3 | 1293.8 | 1295.4 | 1296.9 | 1299.0 | 1301.5 | 1304.1 | 1306.8 | 1309.3 | 1311.1 |
| 130°   | 1349.2 | 1350.7 | 1352.2 | 1353.7 | 1355.2 | 1357.4 | 1360.1 | 1362.8 | 1365.5 | 1368.3 | 1369.7 |
| 132.5° | 1406.9 | 1408.9 | 1410.8 | 1412.7 | 1414.6 | 1416.1 | 1417.2 | 1418.4 | 1419.5 | 1420.6 | 1422.8 |
| 135°   | 1489.9 | 1491.7 | 1493.5 | 1495.4 | 1497.2 | 1498.4 | 1498.9 | 1499.4 | 1500.0 | 1500.5 | 1502.1 |
| 137.5° | 1566.0 | 1567.6 | 1569.2 | 1570.8 | 1572.5 | 1573.3 | 1573.3 | 1573.2 | 1573.2 | 1573.2 | 1575.3 |
| 140°   | 1615.2 | 1615.9 | 1616.6 | 1617.3 | 1617.9 | 1618.2 | 1618.0 | 1617.8 | 1617.7 | 1617.5 | 1620.0 |
| 142.5° | 1660.2 | 1660.5 | 1660.7 | 1661.0 | 1661.3 | 1661.7 | 1662.2 | 1662.7 | 1663.2 | 1663.8 | 1665.5 |
| 145°   | 1726.2 | 1726.7 | 1727.2 | 1727.7 | 1728.2 | 1728.5 | 1728.5 | 1728.5 | 1728.5 | 1728.5 | 1729.7 |
| 147.5° | 1783.2 | 1783.0 | 1782.9 | 1782.8 | 1782.6 | 1782.8 | 1783.2 | 1783.6 | 1784.0 | 1784.4 | 1785.1 |
| 150°   | 1819.7 | 1819.0 | 1818.4 | 1817.7 | 1816.9 | 1816.9 | 1817.7 | 1818.4 | 1819.0 | 1819.7 | 1820.4 |
| 152.5° | 1854.9 | 1853.5 | 1852.0 | 1850.5 | 1849.0 | 1848.6 | 1849.3 | 1850.0 | 1850.7 | 1851.3 | 1852.0 |
| 155°   | 1900.3 | 1898.2 | 1896.2 | 1894.2 | 1892.2 | 1891.5 | 1892.2 | 1892.8 | 1893.5 | 1894.2 | 1895.2 |
| 157.5° | 1935.2 | 1934.0 | 1932.8 | 1931.6 | 1930.4 | 1929.8 | 1929.9 | 1930.0 | 1930.0 | 1930.1 | 1931.2 |
| 160°   | 1959.5 | 1957.5 | 1955.5 | 1953.5 | 1951.5 | 1950.6 | 1951.0 | 1951.3 | 1951.6 | 1952.0 | 1953.3 |
| 162.5° | 1979.0 | 1977.0 | 1975.0 | 1972.9 | 1970.9 | 1970.0 | 1970.3 | 1970.8 | 1971.1 | 1971.4 | 1973.3 |
| 165°   | 2005.2 | 2003.2 | 2001.0 | 1999.0 | 1997.0 | 1996.2 | 1996.5 | 1996.9 | 1997.2 | 1997.5 | 1999.5 |
| 167.5° | 2024.6 | 2022.6 | 2020.4 | 2018.3 | 2016.2 | 2015.4 | 2015.7 | 2016.0 | 2016.4 | 2016.7 | 2019.1 |
| 170°   | 2035.6 | 2033.2 | 2030.8 | 2028.4 | 2026.1 | 2025.1 | 2025.4 | 2025.8 | 2026.1 | 2026.4 | 2029.1 |
| 172.5° | 2042.9 | 2040.5 | 2038.1 | 2035.8 | 2033.4 | 2032.6 | 2033.2 | 2033.8 | 2034.4 | 2035.0 | 2037.4 |
| 175°   | 2050.7 | 2048.7 | 2046.7 | 2044.7 | 2042.7 | 2041.8 | 2042.1 | 2042.5 | 2042.9 | 2043.2 | 2045.9 |
| 177.5° | 2054.4 | 2052.8 | 2051.1 | 2049.5 | 2047.9 | 2047.2 | 2047.5 | 2047.8 | 2048.0 | 2048.3 | 2050.2 |
| 180°   | 2050.7 | 2050.7 | 2050.7 | 2050.7 | 2050.7 | 2050.7 | 2050.7 | 2050.7 | 2050.7 | 2050.7 | 2050.7 |



TEST NUMBER: P333396-840

CATALOG NUMBER: S125DIW-S610D1560U840-4F0-1E-UDD-D

**CANDELA DISTRIBUTION (continued):**

|        | 55°   | 60°   | 65°   | 70°   | 75°   | 80°   | 85°   | 90°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°     | 782.6 | 782.6 | 782.6 | 782.6 | 782.6 | 782.6 | 782.6 | 782.6 |
| 2.5°   | 780.8 | 781.8 | 782.7 | 783.2 | 783.0 | 782.9 | 782.7 | 782.6 |
| 5°     | 778.4 | 779.8 | 781.1 | 781.7 | 781.6 | 781.4 | 781.2 | 781.1 |
| 7.5°   | 771.9 | 773.2 | 774.4 | 774.9 | 774.7 | 774.6 | 774.4 | 774.2 |
| 10°    | 765.9 | 767.0 | 768.2 | 768.7 | 768.6 | 768.4 | 768.2 | 768.0 |
| 12.5°  | 758.5 | 759.4 | 760.4 | 760.6 | 760.1 | 759.7 | 759.3 | 758.8 |
| 15°    | 744.8 | 745.8 | 746.8 | 747.0 | 746.3 | 745.6 | 745.0 | 744.3 |
| 17.5°  | 727.3 | 728.0 | 728.8 | 729.0 | 728.6 | 728.2 | 727.8 | 727.4 |
| 20°    | 713.9 | 714.4 | 714.9 | 715.1 | 715.1 | 715.1 | 715.1 | 715.1 |
| 22.5°  | 699.9 | 700.6 | 701.3 | 701.4 | 700.9 | 700.5 | 700.1 | 699.7 |
| 25°    | 678.1 | 678.8 | 679.4 | 679.4 | 678.5 | 677.7 | 676.8 | 676.0 |
| 27.5°  | 652.7 | 653.2 | 653.7 | 653.7 | 653.4 | 653.1 | 652.8 | 652.5 |
| 30°    | 635.2 | 635.6 | 635.9 | 636.0 | 635.8 | 635.6 | 635.5 | 635.3 |
| 32.5°  | 618.6 | 618.9 | 619.4 | 619.5 | 619.2 | 619.0 | 618.9 | 618.7 |
| 35°    | 591.8 | 592.4 | 592.9 | 593.1 | 593.1 | 593.1 | 593.1 | 593.1 |
| 37.5°  | 563.6 | 564.3 | 565.0 | 565.3 | 565.2 | 565.1 | 565.1 | 565.0 |
| 40°    | 544.6 | 545.3 | 545.9 | 546.4 | 546.8 | 547.1 | 547.5 | 547.9 |
| 42.5°  | 527.0 | 527.9 | 528.7 | 529.2 | 529.3 | 529.3 | 529.4 | 529.5 |
| 45°    | 498.8 | 500.0 | 501.2 | 501.9 | 502.1 | 502.2 | 502.4 | 502.6 |
| 47.5°  | 469.7 | 471.4 | 473.1 | 474.2 | 474.6 | 474.9 | 475.3 | 475.7 |
| 50°    | 450.3 | 452.2 | 454.0 | 455.2 | 455.8 | 456.3 | 456.8 | 457.3 |
| 52.5°  | 430.9 | 432.9 | 434.9 | 436.2 | 436.6 | 436.9 | 437.3 | 437.7 |
| 55°    | 400.4 | 402.3 | 404.1 | 405.5 | 406.2 | 406.9 | 407.5 | 408.2 |
| 57.5°  | 370.3 | 372.4 | 374.6 | 375.9 | 376.5 | 377.0 | 377.5 | 378.0 |
| 60°    | 349.6 | 352.1 | 354.8 | 356.3 | 356.8 | 357.3 | 357.8 | 358.3 |
| 62.5°  | 328.7 | 331.5 | 334.4 | 336.1 | 336.7 | 337.4 | 338.0 | 338.7 |
| 65°    | 297.4 | 300.0 | 302.6 | 304.2 | 304.9 | 305.6 | 306.2 | 306.9 |
| 67.5°  | 265.4 | 268.5 | 271.6 | 273.6 | 274.5 | 275.4 | 276.3 | 277.1 |
| 70°    | 243.6 | 246.8 | 250.0 | 252.2 | 253.2 | 254.2 | 255.3 | 256.3 |
| 72.5°  | 223.3 | 226.7 | 230.2 | 232.4 | 233.2 | 233.9 | 234.7 | 235.4 |
| 75°    | 192.5 | 195.9 | 199.3 | 201.5 | 202.3 | 203.2 | 204.0 | 204.9 |
| 77.5°  | 161.7 | 165.5 | 169.3 | 171.5 | 172.1 | 172.8 | 173.5 | 174.2 |
| 80°    | 143.3 | 147.0 | 150.8 | 153.0 | 153.7 | 154.4 | 155.1 | 155.7 |
| 82.5°  | 125.8 | 129.5 | 133.1 | 135.5 | 136.7 | 137.9 | 139.2 | 140.4 |
| 85°    | 101.9 | 105.6 | 109.4 | 111.9 | 113.3 | 114.6 | 116.0 | 117.3 |
| 87.5°  | 88.0  | 92.2  | 96.4  | 99.3  | 100.7 | 102.1 | 103.5 | 104.9 |
| 90°    | 98.5  | 104.1 | 109.7 | 113.6 | 115.8 | 118.1 | 120.2 | 122.4 |
| 92.5°  | 95.7  | 101.2 | 106.6 | 110.3 | 111.9 | 113.6 | 115.2 | 116.9 |
| 95°    | 91.2  | 96.6  | 102.1 | 105.4 | 106.6 | 107.8 | 109.0 | 110.2 |
| 97.5°  | 115.1 | 109.2 | 103.2 | 100.8 | 102.0 | 103.1 | 104.3 | 105.4 |
| 100°   | 220.2 | 173.4 | 126.6 | 103.1 | 102.7 | 102.4 | 102.1 | 101.8 |
| 102.5° | 371.9 | 365.9 | 359.8 | 345.8 | 323.9 | 301.8 | 279.9 | 258.0 |
| 105°   | 502.0 | 505.4 | 508.9 | 511.0 | 511.9 | 512.7 | 513.5 | 514.4 |
| 107.5° | 618.8 | 622.3 | 625.7 | 627.4 | 627.5 | 627.5 | 627.6 | 627.6 |
| 110°   | 694.2 | 696.4 | 698.6 | 700.5 | 702.1 | 703.6 | 705.1 | 706.7 |





TEST NUMBER: P333396-840

CATALOG NUMBER: S125DIW-S610D1560U840-4F0-1E-UDD-D

**CANDELA DISTRIBUTION (continued):**

|        | 55°    | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 768.8  | 770.6  | 772.4  | 773.7  | 774.4  | 775.1  | 775.9  | 776.6  |
| 115°   | 881.6  | 883.3  | 885.0  | 885.4  | 884.4  | 883.4  | 882.4  | 881.4  |
| 117.5° | 990.2  | 991.4  | 992.5  | 993.2  | 993.5  | 993.8  | 994.0  | 994.3  |
| 120°   | 1060.5 | 1062.7 | 1064.9 | 1065.7 | 1065.0 | 1064.3 | 1063.7 | 1063.0 |
| 122.5° | 1127.0 | 1129.1 | 1131.3 | 1131.8 | 1130.8 | 1129.9 | 1129.0 | 1128.0 |
| 125°   | 1224.4 | 1225.8 | 1227.2 | 1227.8 | 1227.6 | 1227.5 | 1227.3 | 1227.1 |
| 127.5° | 1312.9 | 1314.6 | 1316.5 | 1316.6 | 1315.0 | 1313.5 | 1312.0 | 1310.5 |
| 130°   | 1371.1 | 1372.4 | 1373.8 | 1374.0 | 1373.2 | 1372.4 | 1371.6 | 1370.7 |
| 132.5° | 1424.9 | 1427.1 | 1429.3 | 1429.9 | 1429.0 | 1427.9 | 1427.0 | 1426.0 |
| 135°   | 1503.6 | 1505.1 | 1506.6 | 1506.8 | 1505.7 | 1504.5 | 1503.3 | 1502.2 |
| 137.5° | 1577.4 | 1579.5 | 1581.8 | 1582.3 | 1581.1 | 1580.1 | 1579.0 | 1577.9 |
| 140°   | 1622.7 | 1625.2 | 1627.7 | 1628.3 | 1627.0 | 1625.6 | 1624.3 | 1623.0 |
| 142.5° | 1667.2 | 1668.9 | 1670.6 | 1670.8 | 1669.5 | 1668.2 | 1666.8 | 1665.5 |
| 145°   | 1730.8 | 1732.0 | 1733.2 | 1733.1 | 1731.8 | 1730.5 | 1729.1 | 1727.8 |
| 147.5° | 1785.7 | 1786.5 | 1787.2 | 1786.5 | 1784.2 | 1782.1 | 1780.0 | 1777.9 |
| 150°   | 1821.0 | 1821.7 | 1822.4 | 1821.5 | 1819.0 | 1816.4 | 1813.8 | 1811.3 |
| 152.5° | 1852.7 | 1853.3 | 1854.0 | 1853.1 | 1850.8 | 1848.4 | 1845.9 | 1843.5 |
| 155°   | 1896.2 | 1897.2 | 1898.2 | 1897.3 | 1894.7 | 1892.0 | 1889.3 | 1886.5 |
| 157.5° | 1932.2 | 1933.3 | 1934.4 | 1933.6 | 1930.9 | 1928.1 | 1925.4 | 1922.8 |
| 160°   | 1954.6 | 1956.0 | 1957.3 | 1956.7 | 1954.0 | 1951.3 | 1948.5 | 1945.9 |
| 162.5° | 1975.2 | 1977.1 | 1978.9 | 1978.4 | 1975.5 | 1972.5 | 1969.5 | 1966.5 |
| 165°   | 2001.6 | 2003.7 | 2005.7 | 2005.3 | 2002.7 | 1999.9 | 1997.2 | 1994.5 |
| 167.5° | 2021.5 | 2024.0 | 2026.4 | 2026.1 | 2023.1 | 2020.0 | 2017.0 | 2014.0 |
| 170°   | 2031.8 | 2034.6 | 2037.2 | 2037.1 | 2034.1 | 2031.0 | 2027.9 | 2024.9 |
| 172.5° | 2039.8 | 2042.3 | 2044.7 | 2044.4 | 2041.3 | 2038.3 | 2035.3 | 2032.3 |
| 175°   | 2048.5 | 2051.2 | 2054.0 | 2053.8 | 2050.7 | 2047.7 | 2044.7 | 2041.6 |
| 177.5° | 2052.1 | 2054.0 | 2055.9 | 2055.8 | 2053.6 | 2051.4 | 2049.2 | 2047.1 |
| 180°   | 2050.7 | 2050.7 | 2050.7 | 2050.7 | 2050.7 | 2050.7 | 2050.7 | 2050.7 |

(END OF REPORT)