

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: P333053-840

Luminaire Tested: **S124RDIW-S575D1560U840-4F0-1E-UDD-F**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P333053-840  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-6,  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: S124RDIW-S575D1560U840-4F0-1E-UDD-F  
Description: DEFINE 4 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE  
DOWNLIGHT 575 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER, REGRESSED  
HOUSING  
UPLIGHT 1560 LUMENS PER FOOT, NO LENS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8675.5 lumens  
Efficiency: N/A  
Efficacy: 143.2 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.09 / 1.24  
Luminous Opening: Rectangular (W 0.33' x L: 4' x H: 0')  
CIE Type: Semi-Indirect

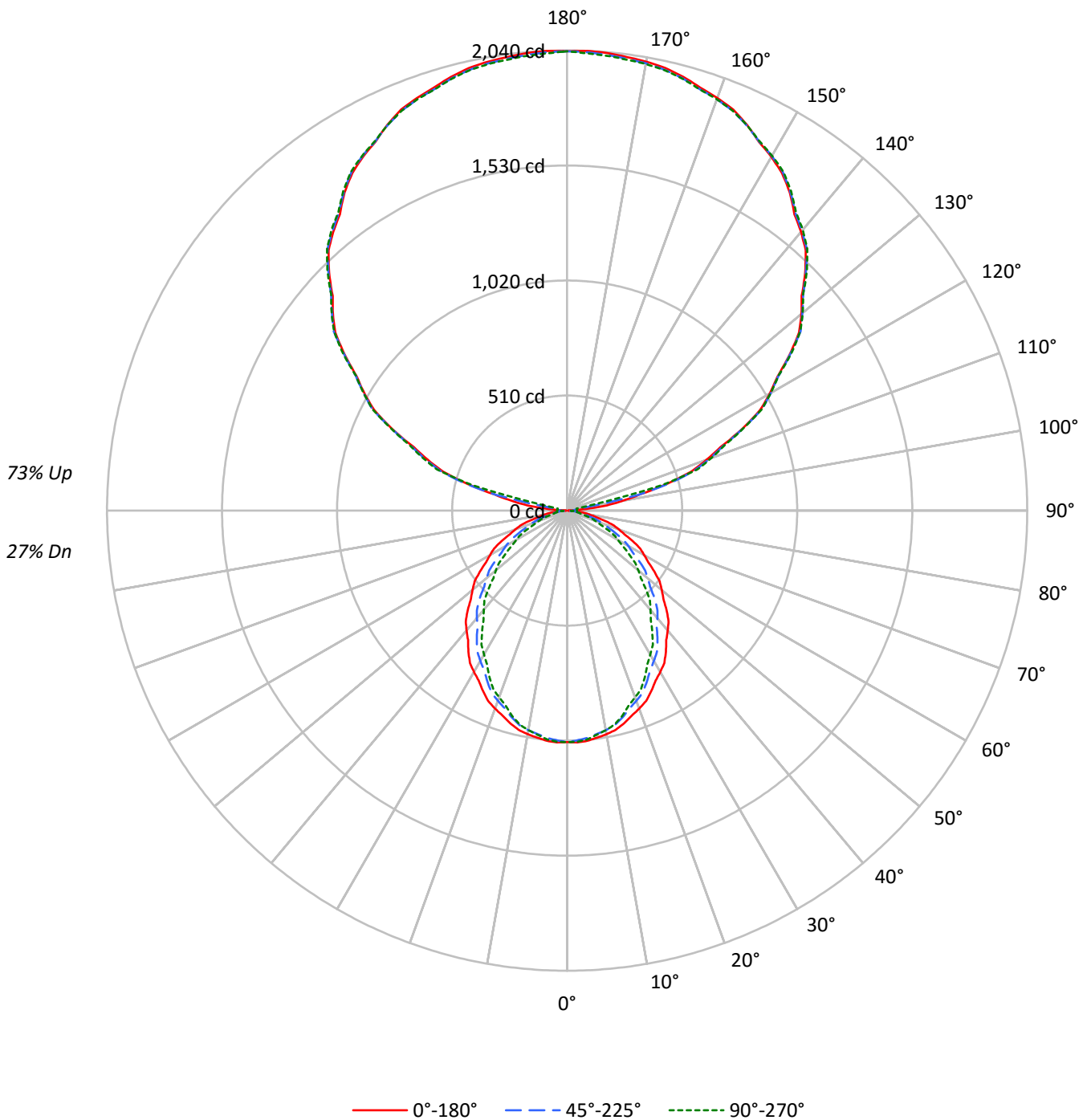
Input Watts (W): 60.6  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P333053-840

CATALOG NUMBER: S124RDIW-S575D1560U840-4F0-1E-UDD-F

### Luminous Intensity Polar Plot





TEST NUMBER: P333053-840

CATALOG NUMBER: S124RDIW-S575D1560U840-4F0-1E-UDD-F

**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   | 102 | 102 | 102 | 102 | 91 | 91 | 91 | 91 | 71 | 71 | 71 | 52 | 52 | 52 | 35 | 35 | 35 | 27 |
| 1   | 93  | 89  | 85  | 82  | 83 | 79 | 76 | 74 | 62 | 60 | 58 | 46 | 45 | 44 | 31 | 31 | 30 | 23 |
| 2   | 85  | 78  | 72  | 67  | 75 | 70 | 65 | 61 | 55 | 51 | 48 | 41 | 39 | 37 | 28 | 27 | 26 | 20 |
| 3   | 77  | 68  | 61  | 56  | 69 | 61 | 55 | 51 | 48 | 44 | 41 | 36 | 33 | 31 | 25 | 23 | 22 | 17 |
| 4   | 71  | 60  | 53  | 47  | 63 | 54 | 48 | 43 | 43 | 38 | 35 | 32 | 29 | 27 | 22 | 20 | 19 | 15 |
| 5   | 65  | 54  | 46  | 40  | 58 | 48 | 42 | 37 | 38 | 33 | 30 | 29 | 26 | 23 | 20 | 18 | 17 | 13 |
| 6   | 60  | 48  | 40  | 35  | 53 | 43 | 37 | 32 | 34 | 30 | 26 | 26 | 23 | 20 | 18 | 16 | 15 | 11 |
| 7   | 55  | 43  | 36  | 30  | 49 | 39 | 32 | 28 | 31 | 26 | 23 | 24 | 20 | 18 | 17 | 15 | 13 | 10 |
| 8   | 51  | 39  | 32  | 27  | 45 | 35 | 29 | 24 | 28 | 24 | 20 | 22 | 18 | 16 | 15 | 13 | 12 | 9  |
| 9   | 47  | 36  | 28  | 24  | 42 | 32 | 26 | 22 | 26 | 21 | 18 | 20 | 17 | 14 | 14 | 12 | 10 | 8  |
| 10  | 44  | 33  | 26  | 21  | 39 | 30 | 23 | 19 | 24 | 19 | 16 | 18 | 15 | 13 | 13 | 11 | 10 | 7  |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 8285 | 8285 | 8285 |
| 5°  | 8304 | 8203 | 8253 |
| 10° | 8252 | 8104 | 8104 |
| 15° | 8157 | 7934 | 7875 |
| 20° | 8027 | 7710 | 7568 |
| 25° | 7861 | 7448 | 7259 |
| 30° | 7699 | 7171 | 6871 |
| 35° | 7521 | 6885 | 6482 |
| 40° | 7304 | 6559 | 6062 |
| 45° | 7106 | 6235 | 5634 |
| 50° | 6880 | 5863 | 5181 |
| 55° | 6636 | 5475 | 4690 |
| 60° | 6370 | 5050 | 4187 |
| 65° | 6124 | 4518 | 3692 |
| 70° | 5769 | 3932 | 3135 |
| 75° | 5321 | 3260 | 2548 |
| 80° | 4640 | 2483 | 2338 |
| 85° | 3927 | 2251 | 2112 |



TEST NUMBER: P333053-840

CATALOG NUMBER: S124RDIW-S575D1560U840-4F0-1E-UDD-F

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 96.4   | 1.1       |
| 10°-20°   | 268.8  | 3.1       |
| 20°-30°   | 388.2  | 4.5       |
| 30°-40°   | 440.0  | 5.1       |
| 40°-50°   | 424.9  | 4.9       |
| 50°-60°   | 353.4  | 4.1       |
| 60°-70°   | 244.0  | 2.8       |
| 70°-80°   | 123.7  | 1.4       |
| 80°-90°   | 37.6   | 0.4       |
| 90°-100°  | 69.6   | 0.8       |
| 100°-110° | 444.0  | 5.1       |
| 110°-120° | 849.4  | 9.8       |
| 120°-130° | 1078.3 | 12.4      |
| 130°-140° | 1153.7 | 13.3      |
| 140°-150° | 1078.8 | 12.4      |
| 150°-160° | 870.0  | 10.0      |
| 160°-170° | 561.1  | 6.5       |
| 170°-180° | 193.4  | 2.2       |
| 0°-30°    | 753.5  | 8.7       |
| 0°-40°    | 1193.5 | 13.8      |
| 0°-60°    | 1971.8 | 22.7      |
| 0°-90°    | 2377.1 | 27.4      |
| 90°-120°  | 1363.1 | 15.7      |
| 90°-150°  | 4673.9 | 53.9      |
| 90°-180°  | 6298.0 | 72.6      |
| 0°-180°   | 8675.5 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 1026 | 1026  | 1026 | 1026  | 1026 |      |
| 5°   | 1025 | 1021  | 1012 | 1020  | 1018 | 97   |
| 15°  | 976  | 968   | 949  | 948   | 942  | 275  |
| 25°  | 882  | 867   | 836  | 823   | 815  | 406  |
| 35°  | 763  | 737   | 699  | 673   | 658  | 477  |
| 45°  | 622  | 592   | 546  | 509   | 494  | 480  |
| 55°  | 472  | 439   | 389  | 350   | 333  | 422  |
| 65°  | 321  | 286   | 236  | 204   | 193  | 317  |
| 75°  | 171  | 141   | 104  | 87    | 82   | 180  |
| 85°  | 42   | 28    | 24   | 23    | 23   | 48   |
| 90°  | 4    | 21    | 34   | 42    | 46   | 6    |
| 95°  | 84   | 35    | 34   | 42    | 44   | 108  |
| 105° | 458  | 468   | 475  | 485   | 434  | 480  |
| 115° | 856  | 860   | 859  | 862   | 862  | 842  |
| 125° | 1203 | 1209  | 1206 | 1211  | 1212 | 1074 |
| 135° | 1492 | 1491  | 1497 | 1500  | 1503 | 1149 |
| 145° | 1721 | 1725  | 1726 | 1727  | 1730 | 1075 |
| 155° | 1887 | 1888  | 1884 | 1889  | 1885 | 870  |
| 165° | 1990 | 1983  | 1983 | 1994  | 1981 | 562  |
| 175° | 2036 | 2028  | 2028 | 2040  | 2024 | 194  |
| 180° | 2036 | 2036  | 2036 | 2036  | 2036 |      |



TEST NUMBER: P333053-840

CATALOG NUMBER: S124RDIW-S575D1560U840-4F0-1E-UDD-F

**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1026.3 | 1026.3 | 1026.3 | 1026.3 | 1026.3 | 1026.3 | 1026.3 | 1026.3 | 1026.3 | 1026.3 | 1026.3 |
| 2.5°   | 1028.9 | 1028.2 | 1027.7 | 1027.1 | 1026.6 | 1025.5 | 1024.0 | 1022.5 | 1020.9 | 1019.4 | 1020.9 |
| 5°     | 1024.7 | 1024.0 | 1023.3 | 1022.6 | 1022.0 | 1020.6 | 1018.4 | 1016.3 | 1014.2 | 1012.2 | 1013.9 |
| 7.5°   | 1015.4 | 1014.7 | 1014.0 | 1013.3 | 1012.5 | 1010.8 | 1008.0 | 1005.3 | 1002.6 | 999.9  | 1001.0 |
| 10°    | 1006.6 | 1005.8 | 1004.9 | 1004.0 | 1003.2 | 1001.2 | 998.0  | 994.8  | 991.7  | 988.6  | 989.3  |
| 12.5°  | 995.3  | 994.3  | 993.3  | 992.3  | 991.3  | 989.0  | 985.2  | 981.5  | 977.9  | 974.1  | 974.5  |
| 15°    | 976.0  | 974.4  | 972.9  | 971.3  | 969.7  | 966.7  | 962.4  | 958.1  | 953.6  | 949.3  | 949.0  |
| 17.5°  | 952.6  | 950.3  | 948.1  | 945.7  | 943.5  | 939.8  | 934.5  | 929.3  | 924.0  | 918.8  | 917.9  |
| 20°    | 934.3  | 932.1  | 929.8  | 927.6  | 925.2  | 921.2  | 915.2  | 909.3  | 903.3  | 897.5  | 896.1  |
| 22.5°  | 914.2  | 911.7  | 909.2  | 906.6  | 904.0  | 899.6  | 893.2  | 886.9  | 880.5  | 874.1  | 872.0  |
| 25°    | 882.5  | 879.4  | 876.2  | 873.0  | 869.9  | 864.7  | 857.6  | 850.4  | 843.2  | 836.2  | 833.1  |
| 27.5°  | 849.2  | 845.3  | 841.3  | 837.4  | 833.3  | 827.6  | 819.9  | 812.3  | 804.7  | 797.0  | 793.3  |
| 30°    | 825.9  | 821.5  | 817.2  | 812.8  | 808.5  | 802.1  | 794.0  | 785.8  | 777.5  | 769.3  | 765.0  |
| 32.5°  | 801.4  | 796.5  | 791.5  | 786.6  | 781.7  | 775.0  | 766.5  | 758.0  | 749.5  | 741.0  | 736.0  |
| 35°    | 763.1  | 757.5  | 751.8  | 746.3  | 740.7  | 733.6  | 724.8  | 716.1  | 707.3  | 698.6  | 692.7  |
| 37.5°  | 722.1  | 716.3  | 710.5  | 704.8  | 698.9  | 691.3  | 681.6  | 671.9  | 662.3  | 652.6  | 645.9  |
| 40°    | 693.1  | 687.3  | 681.6  | 675.8  | 670.0  | 662.2  | 652.3  | 642.3  | 632.4  | 622.4  | 615.0  |
| 42.5°  | 665.4  | 659.4  | 653.4  | 647.3  | 641.3  | 633.1  | 622.7  | 612.3  | 602.0  | 591.6  | 584.1  |
| 45°    | 622.4  | 615.9  | 609.5  | 603.0  | 596.5  | 588.0  | 577.5  | 567.1  | 556.6  | 546.1  | 537.6  |
| 47.5°  | 577.9  | 571.3  | 564.5  | 557.8  | 551.2  | 542.4  | 531.5  | 520.7  | 509.8  | 498.9  | 490.0  |
| 50°    | 547.8  | 540.9  | 534.1  | 527.3  | 520.5  | 511.5  | 500.3  | 489.2  | 478.0  | 466.8  | 458.1  |
| 52.5°  | 516.9  | 510.3  | 503.6  | 497.0  | 490.2  | 481.2  | 469.7  | 458.3  | 446.8  | 435.4  | 426.5  |
| 55°    | 471.5  | 464.5  | 457.6  | 450.5  | 443.5  | 434.3  | 423.0  | 411.7  | 400.3  | 389.0  | 379.9  |
| 57.5°  | 426.6  | 419.3  | 412.0  | 404.8  | 397.5  | 388.3  | 377.1  | 365.9  | 354.8  | 343.6  | 334.4  |
| 60°    | 394.5  | 387.5  | 380.5  | 373.5  | 366.6  | 357.5  | 346.3  | 335.1  | 324.0  | 312.8  | 303.7  |
| 62.5°  | 365.6  | 358.3  | 351.0  | 343.8  | 336.5  | 327.2  | 315.7  | 304.3  | 292.8  | 281.3  | 273.0  |
| 65°    | 320.6  | 313.2  | 305.6  | 298.1  | 290.5  | 281.2  | 270.0  | 258.9  | 247.7  | 236.5  | 229.0  |
| 67.5°  | 274.0  | 266.7  | 259.5  | 252.4  | 245.2  | 236.4  | 226.0  | 215.6  | 205.3  | 194.9  | 188.4  |
| 70°    | 244.4  | 237.0  | 229.7  | 222.4  | 215.1  | 206.4  | 196.4  | 186.5  | 176.5  | 166.6  | 160.9  |
| 72.5°  | 213.0  | 206.3  | 199.7  | 193.1  | 186.4  | 178.4  | 169.1  | 159.7  | 150.2  | 140.8  | 135.9  |
| 75°    | 170.6  | 164.1  | 157.6  | 151.2  | 144.7  | 137.3  | 129.2  | 120.9  | 112.7  | 104.5  | 100.5  |
| 77.5°  | 127.4  | 122.0  | 116.5  | 111.0  | 105.5  | 99.5   | 92.8   | 86.2   | 79.6   | 72.9   | 70.6   |
| 80°    | 99.8   | 94.7   | 89.7   | 84.6   | 79.6   | 74.4   | 69.2   | 63.9   | 58.7   | 53.4   | 52.9   |
| 82.5°  | 75.9   | 71.3   | 66.7   | 62.0   | 57.4   | 53.5   | 50.5   | 47.5   | 44.5   | 41.5   | 41.1   |
| 85°    | 42.4   | 39.0   | 35.4   | 31.9   | 28.5   | 26.5   | 26.0   | 25.4   | 24.8   | 24.3   | 24.0   |
| 87.5°  | 15.3   | 15.0   | 14.6   | 14.2   | 13.8   | 13.9   | 14.3   | 14.7   | 15.1   | 15.6   | 15.8   |
| 90°    | 4.5    | 8.3    | 12.0   | 15.8   | 19.5   | 22.7   | 25.3   | 28.1   | 30.8   | 33.5   | 35.5   |
| 92.5°  | 19.2   | 19.4   | 19.6   | 19.8   | 20.0   | 21.4   | 24.1   | 26.9   | 29.6   | 32.3   | 34.3   |
| 95°    | 83.7   | 72.2   | 60.8   | 49.3   | 37.8   | 32.1   | 32.5   | 32.8   | 33.1   | 33.5   | 35.5   |
| 97.5°  | 177.8  | 185.0  | 192.2  | 199.4  | 206.6  | 191.3  | 153.5  | 115.7  | 78.0   | 40.2   | 40.4   |
| 100°   | 249.7  | 255.9  | 262.0  | 268.0  | 274.1  | 253.8  | 207.1  | 160.4  | 113.7  | 67.1   | 61.3   |
| 102.5° | 330.1  | 334.7  | 339.1  | 343.6  | 348.0  | 347.2  | 341.1  | 335.1  | 328.9  | 322.9  | 260.7  |
| 105°   | 458.4  | 460.4  | 462.4  | 464.5  | 466.6  | 468.4  | 470.1  | 471.8  | 473.4  | 475.1  | 478.2  |
| 107.5° | 577.4  | 578.6  | 579.6  | 580.6  | 581.6  | 583.2  | 585.5  | 587.8  | 590.1  | 592.4  | 593.9  |
| 110°   | 657.9  | 658.9  | 659.9  | 661.0  | 662.0  | 663.5  | 665.5  | 667.5  | 669.5  | 671.6  | 672.3  |



TEST NUMBER: P333053-840

CATALOG NUMBER: S124RDIW-S575D1560U840-4F0-1E-UDD-F

**CANDELA DISTRIBUTION (continued):**

|        | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 735.9  | 737.7  | 739.5  | 741.3  | 743.2  | 744.6  | 745.5  | 746.5  | 747.4  | 748.4  | 748.2  |
| 115°   | 855.9  | 856.9  | 857.9  | 858.9  | 859.9  | 860.3  | 859.9  | 859.6  | 859.3  | 858.9  | 859.6  |
| 117.5° | 964.0  | 965.3  | 966.7  | 968.1  | 969.5  | 970.5  | 971.2  | 972.0  | 972.7  | 973.4  | 973.3  |
| 120°   | 1037.1 | 1038.4 | 1039.9 | 1041.2 | 1042.5 | 1043.0 | 1042.7 | 1042.4 | 1042.0 | 1041.7 | 1042.4 |
| 122.5° | 1105.3 | 1106.1 | 1106.9 | 1107.7 | 1108.6 | 1109.2 | 1109.7 | 1110.1 | 1110.6 | 1111.2 | 1111.6 |
| 125°   | 1203.2 | 1204.5 | 1205.8 | 1207.2 | 1208.5 | 1208.8 | 1208.2 | 1207.5 | 1206.8 | 1206.2 | 1207.2 |
| 127.5° | 1295.7 | 1296.1 | 1296.4 | 1296.7 | 1297.1 | 1298.0 | 1299.6 | 1301.1 | 1302.6 | 1304.2 | 1304.0 |
| 130°   | 1355.4 | 1355.7 | 1356.0 | 1356.5 | 1356.8 | 1357.5 | 1358.5 | 1359.5 | 1360.5 | 1361.5 | 1361.8 |
| 132.5° | 1410.2 | 1410.8 | 1411.5 | 1412.1 | 1412.7 | 1413.6 | 1414.9 | 1416.1 | 1417.4 | 1418.8 | 1419.1 |
| 135°   | 1492.5 | 1492.1 | 1491.8 | 1491.5 | 1491.1 | 1491.6 | 1493.0 | 1494.3 | 1495.7 | 1497.0 | 1497.7 |
| 137.5° | 1565.3 | 1565.4 | 1565.5 | 1565.7 | 1565.8 | 1566.6 | 1568.1 | 1569.6 | 1571.0 | 1572.6 | 1573.3 |
| 140°   | 1612.8 | 1613.5 | 1614.2 | 1614.8 | 1615.5 | 1616.2 | 1616.8 | 1617.5 | 1618.2 | 1618.8 | 1619.9 |
| 142.5° | 1655.4 | 1656.6 | 1657.9 | 1659.1 | 1660.3 | 1661.1 | 1661.5 | 1661.9 | 1662.3 | 1662.7 | 1663.4 |
| 145°   | 1720.9 | 1721.9 | 1722.9 | 1723.9 | 1725.0 | 1725.5 | 1725.5 | 1725.5 | 1725.5 | 1725.5 | 1725.8 |
| 147.5° | 1773.0 | 1774.8 | 1776.8 | 1778.7 | 1780.6 | 1781.3 | 1781.0 | 1780.7 | 1780.3 | 1780.0 | 1780.3 |
| 150°   | 1810.8 | 1812.1 | 1813.4 | 1814.8 | 1816.1 | 1816.6 | 1816.3 | 1816.0 | 1815.6 | 1815.3 | 1815.3 |
| 152.5° | 1842.4 | 1843.5 | 1844.6 | 1845.6 | 1846.7 | 1847.0 | 1846.3 | 1845.7 | 1845.1 | 1844.5 | 1845.1 |
| 155°   | 1886.9 | 1887.2 | 1887.5 | 1887.9 | 1888.2 | 1887.9 | 1886.9 | 1885.9 | 1884.9 | 1883.8 | 1885.2 |
| 157.5° | 1924.4 | 1924.2 | 1924.0 | 1923.8 | 1923.6 | 1922.9 | 1921.7 | 1920.6 | 1919.5 | 1918.2 | 1920.1 |
| 160°   | 1946.3 | 1945.3 | 1944.3 | 1943.3 | 1942.3 | 1941.6 | 1941.2 | 1940.9 | 1940.6 | 1940.2 | 1942.3 |
| 162.5° | 1965.8 | 1964.5 | 1963.2 | 1962.0 | 1960.7 | 1959.8 | 1959.4 | 1959.1 | 1958.8 | 1958.4 | 1960.5 |
| 165°   | 1990.4 | 1988.7 | 1987.1 | 1985.4 | 1983.7 | 1982.9 | 1982.9 | 1982.9 | 1982.9 | 1982.9 | 1985.5 |
| 167.5° | 2009.9 | 2008.2 | 2006.4 | 2004.7 | 2002.9 | 2002.0 | 2001.8 | 2001.6 | 2001.4 | 2001.1 | 2004.1 |
| 170°   | 2020.9 | 2018.9 | 2016.8 | 2014.8 | 2012.8 | 2012.0 | 2012.3 | 2012.7 | 2013.0 | 2013.3 | 2016.0 |
| 172.5° | 2028.2 | 2026.2 | 2024.2 | 2022.2 | 2020.1 | 2019.2 | 2019.6 | 2019.9 | 2020.2 | 2020.6 | 2023.3 |
| 175°   | 2036.1 | 2034.1 | 2032.1 | 2030.0 | 2028.0 | 2027.2 | 2027.5 | 2027.8 | 2028.2 | 2028.5 | 2031.5 |
| 177.5° | 2039.8 | 2037.9 | 2036.0 | 2034.1 | 2032.3 | 2031.5 | 2032.1 | 2032.7 | 2033.2 | 2033.7 | 2035.9 |
| 180°   | 2036.1 | 2036.1 | 2036.1 | 2036.1 | 2036.1 | 2036.1 | 2036.1 | 2036.1 | 2036.1 | 2036.1 | 2036.1 |



TEST NUMBER: P333053-840

CATALOG NUMBER: S124RDIW-S575D1560U840-4F0-1E-UDD-F

**CANDELA DISTRIBUTION (continued):**

|        | 55°    | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1026.3 | 1026.3 | 1026.3 | 1026.3 | 1026.3 | 1026.3 | 1026.3 | 1026.3 |
| 2.5°   | 1022.5 | 1024.0 | 1025.5 | 1026.2 | 1026.1 | 1025.9 | 1025.8 | 1025.7 |
| 5°     | 1015.6 | 1017.4 | 1019.2 | 1019.9 | 1019.5 | 1019.2 | 1018.8 | 1018.4 |
| 7.5°   | 1002.1 | 1003.2 | 1004.4 | 1004.6 | 1004.1 | 1003.5 | 1003.0 | 1002.4 |
| 10°    | 990.0  | 990.7  | 991.4  | 991.4  | 990.7  | 990.0  | 989.3  | 988.6  |
| 12.5°  | 974.9  | 975.3  | 975.8  | 975.5  | 974.5  | 973.6  | 972.6  | 971.6  |
| 15°    | 948.6  | 948.3  | 947.9  | 947.2  | 945.8  | 944.6  | 943.4  | 942.2  |
| 17.5°  | 916.9  | 915.8  | 914.8  | 913.4  | 911.6  | 909.8  | 907.9  | 906.1  |
| 20°    | 894.6  | 893.2  | 891.8  | 890.0  | 887.8  | 885.4  | 883.2  | 880.9  |
| 22.5°  | 870.0  | 867.9  | 865.8  | 863.8  | 861.9  | 860.1  | 858.3  | 856.4  |
| 25°    | 830.2  | 827.2  | 824.3  | 821.9  | 820.1  | 818.4  | 816.7  | 814.9  |
| 27.5°  | 789.6  | 786.0  | 782.3  | 779.2  | 776.7  | 774.2  | 771.7  | 769.2  |
| 30°    | 760.6  | 756.2  | 751.8  | 748.3  | 745.5  | 742.7  | 739.9  | 737.1  |
| 32.5°  | 730.9  | 725.9  | 720.7  | 716.9  | 714.3  | 711.7  | 708.9  | 706.3  |
| 35°    | 686.7  | 680.8  | 674.9  | 670.3  | 667.2  | 664.0  | 660.9  | 657.7  |
| 37.5°  | 639.2  | 632.7  | 626.0  | 621.2  | 617.9  | 614.8  | 611.7  | 608.5  |
| 40°    | 607.7  | 600.4  | 593.0  | 587.8  | 584.6  | 581.5  | 578.3  | 575.2  |
| 42.5°  | 576.6  | 569.2  | 561.7  | 556.3  | 553.0  | 549.8  | 546.4  | 543.2  |
| 45°    | 529.1  | 520.5  | 511.9  | 506.0  | 502.9  | 499.8  | 496.7  | 493.5  |
| 47.5°  | 481.1  | 472.2  | 463.3  | 457.2  | 453.7  | 450.3  | 446.9  | 443.3  |
| 50°    | 449.3  | 440.6  | 431.8  | 425.9  | 422.5  | 419.2  | 415.9  | 412.5  |
| 52.5°  | 417.6  | 408.7  | 399.9  | 393.7  | 390.2  | 386.8  | 383.3  | 379.9  |
| 55°    | 370.8  | 361.7  | 352.6  | 346.5  | 343.2  | 339.8  | 336.5  | 333.2  |
| 57.5°  | 325.1  | 315.9  | 306.7  | 300.8  | 298.3  | 295.8  | 293.3  | 290.7  |
| 60°    | 294.6  | 285.5  | 276.4  | 270.5  | 267.7  | 264.9  | 262.2  | 259.3  |
| 62.5°  | 264.6  | 256.2  | 247.8  | 242.5  | 240.2  | 238.0  | 235.8  | 233.6  |
| 65°    | 221.6  | 214.0  | 206.5  | 201.7  | 199.7  | 197.5  | 195.4  | 193.3  |
| 67.5°  | 182.0  | 175.5  | 169.1  | 164.7  | 162.4  | 160.1  | 157.7  | 155.4  |
| 70°    | 155.1  | 149.4  | 143.5  | 139.8  | 138.0  | 136.3  | 134.5  | 132.8  |
| 72.5°  | 131.0  | 126.0  | 121.1  | 117.9  | 116.2  | 114.6  | 113.0  | 111.4  |
| 75°    | 96.4   | 92.5   | 88.5   | 85.9   | 84.8   | 83.8   | 82.8   | 81.7   |
| 77.5°  | 68.3   | 65.9   | 63.5   | 62.2   | 61.9   | 61.6   | 61.3   | 61.0   |
| 80°    | 52.4   | 51.9   | 51.3   | 51.0   | 50.8   | 50.6   | 50.5   | 50.3   |
| 82.5°  | 40.7   | 40.3   | 40.0   | 39.7   | 39.5   | 39.3   | 39.2   | 39.0   |
| 85°    | 23.6   | 23.3   | 22.9   | 22.8   | 22.8   | 22.8   | 22.8   | 22.8   |
| 87.5°  | 16.1   | 16.3   | 16.6   | 16.9   | 17.1   | 17.4   | 17.7   | 18.0   |
| 90°    | 37.6   | 39.6   | 41.6   | 43.0   | 43.6   | 44.3   | 45.0   | 45.6   |
| 92.5°  | 36.4   | 38.4   | 40.4   | 41.5   | 41.6   | 41.8   | 41.9   | 42.0   |
| 95°    | 37.6   | 39.6   | 41.6   | 42.8   | 43.1   | 43.5   | 43.8   | 44.1   |
| 97.5°  | 40.6   | 40.8   | 41.0   | 41.3   | 41.6   | 42.0   | 42.3   | 42.6   |
| 100°   | 55.5   | 49.8   | 44.0   | 41.3   | 41.6   | 42.0   | 42.3   | 42.6   |
| 102.5° | 198.7  | 136.6  | 74.6   | 43.6   | 43.6   | 43.7   | 43.8   | 43.8   |
| 105°   | 481.2  | 484.3  | 487.4  | 482.7  | 470.6  | 458.4  | 446.3  | 434.0  |
| 107.5° | 595.4  | 596.9  | 598.3  | 599.8  | 601.1  | 602.3  | 603.6  | 604.9  |
| 110°   | 673.0  | 673.7  | 674.3  | 675.2  | 676.2  | 677.2  | 678.2  | 679.2  |





TEST NUMBER: P333053-840

CATALOG NUMBER: S124RDIW-S575D1560U840-4F0-1E-UDD-F

**CANDELA DISTRIBUTION (continued):**

|        | 55°    | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 748.1  | 747.9  | 747.8  | 748.4  | 749.7  | 750.9  | 752.2  | 753.6  |
| 115°   | 860.3  | 860.9  | 861.6  | 862.0  | 862.0  | 862.0  | 862.0  | 862.0  |
| 117.5° | 973.2  | 973.0  | 972.9  | 972.8  | 972.6  | 972.5  | 972.4  | 972.2  |
| 120°   | 1043.0 | 1043.7 | 1044.4 | 1044.4 | 1043.7 | 1043.0 | 1042.4 | 1041.7 |
| 122.5° | 1112.0 | 1112.4 | 1112.8 | 1112.6 | 1112.0 | 1111.3 | 1110.5 | 1109.9 |
| 125°   | 1208.2 | 1209.2 | 1210.2 | 1210.9 | 1211.2 | 1211.5 | 1211.9 | 1212.2 |
| 127.5° | 1303.8 | 1303.6 | 1303.4 | 1303.1 | 1302.9 | 1302.6 | 1302.3 | 1302.1 |
| 130°   | 1362.2 | 1362.5 | 1362.8 | 1363.0 | 1363.0 | 1363.0 | 1363.0 | 1363.0 |
| 132.5° | 1419.5 | 1419.8 | 1420.1 | 1420.2 | 1419.9 | 1419.6 | 1419.4 | 1419.1 |
| 135°   | 1498.3 | 1499.0 | 1499.8 | 1500.5 | 1501.1 | 1501.8 | 1502.5 | 1503.1 |
| 137.5° | 1574.1 | 1574.8 | 1575.6 | 1575.8 | 1575.6 | 1575.4 | 1575.2 | 1575.0 |
| 140°   | 1620.9 | 1621.9 | 1623.0 | 1623.6 | 1624.0 | 1624.3 | 1624.6 | 1625.0 |
| 142.5° | 1664.3 | 1665.0 | 1665.7 | 1666.1 | 1666.2 | 1666.3 | 1666.3 | 1666.4 |
| 145°   | 1726.2 | 1726.5 | 1726.8 | 1727.4 | 1728.0 | 1728.7 | 1729.4 | 1730.0 |
| 147.5° | 1780.5 | 1780.8 | 1781.1 | 1781.4 | 1781.7 | 1782.0 | 1782.4 | 1782.7 |
| 150°   | 1815.3 | 1815.3 | 1815.3 | 1815.5 | 1815.8 | 1816.1 | 1816.5 | 1816.8 |
| 152.5° | 1845.6 | 1846.1 | 1846.7 | 1846.8 | 1846.6 | 1846.4 | 1846.2 | 1846.0 |
| 155°   | 1886.5 | 1887.9 | 1889.3 | 1889.5 | 1888.4 | 1887.4 | 1886.4 | 1885.4 |
| 157.5° | 1921.8 | 1923.6 | 1925.3 | 1925.3 | 1923.6 | 1921.8 | 1920.1 | 1918.2 |
| 160°   | 1944.3 | 1946.3 | 1948.3 | 1948.3 | 1946.3 | 1944.3 | 1942.3 | 1940.2 |
| 162.5° | 1962.6 | 1964.6 | 1966.6 | 1966.4 | 1964.2 | 1961.9 | 1959.5 | 1957.2 |
| 165°   | 1988.2 | 1990.9 | 1993.7 | 1993.5 | 1990.4 | 1987.4 | 1984.4 | 1981.4 |
| 167.5° | 2007.1 | 2010.0 | 2013.1 | 2012.9 | 2009.4 | 2006.1 | 2002.7 | 1999.3 |
| 170°   | 2018.7 | 2021.4 | 2024.2 | 2023.8 | 2020.4 | 2017.0 | 2013.7 | 2010.2 |
| 172.5° | 2026.0 | 2028.7 | 2031.4 | 2030.9 | 2027.3 | 2023.7 | 2020.0 | 2016.3 |
| 175°   | 2034.6 | 2037.7 | 2040.7 | 2040.2 | 2036.1 | 2032.1 | 2028.0 | 2024.0 |
| 177.5° | 2038.0 | 2040.2 | 2042.4 | 2041.8 | 2038.6 | 2035.3 | 2032.1 | 2028.8 |
| 180°   | 2036.1 | 2036.1 | 2036.1 | 2036.1 | 2036.1 | 2036.1 | 2036.1 | 2036.1 |

(END OF REPORT)