

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: P332666-935

Luminaire Tested: **S124DIP-S1020D1205U935-4F0-1E-UDD-D4**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P332666-935  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-18,  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: S124DIP-S1020D1205U935-4F0-1E-UDD-D4  
Description: DEFINE 4 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 1020 LUMENS PER FOOT, DROP SATIN WHITE DIFFUSER  
UPLIGHT 1205 LUMENS PER FOOT, BATWING OPTIC  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7330.3 lumens  
Efficiency: N/A  
Efficacy: 112.1 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.39  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.08')  
CIE Type: General Diffuse

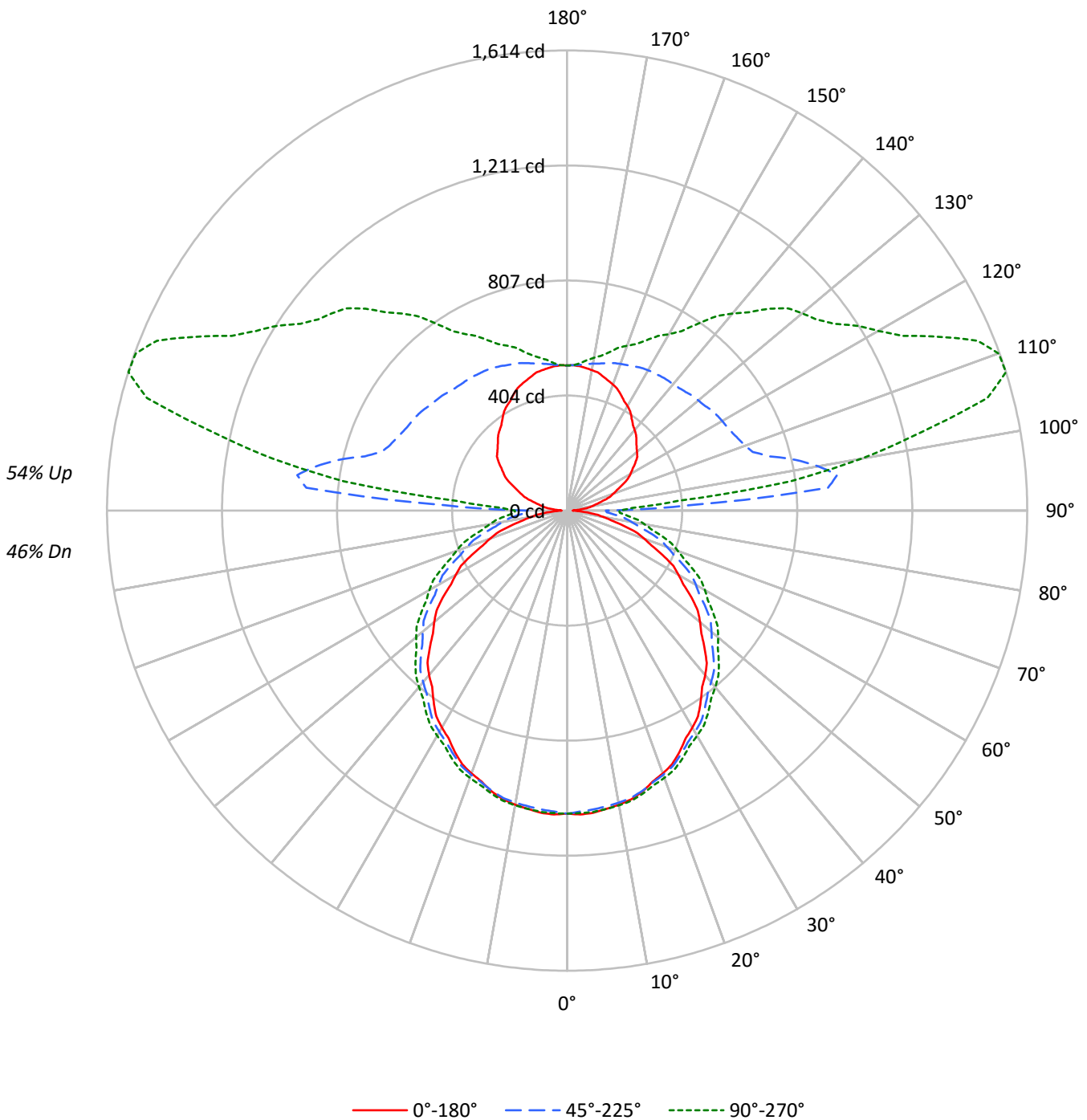
Input Watts (W): 65.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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   | 106 | 106 | 106 | 106 | 97 | 97 | 97 | 97 | 81 | 81 | 81 | 66 | 66 | 66 | 52 | 52 | 52 | 46 |    |    |    |   |
| 1   | 96  | 91  | 87  | 83  | 88 | 84 | 80 | 77 | 70 | 67 | 65 | 57 | 55 | 53 | 45 | 43 | 42 | 37 |    |    |    |   |
| 2   | 87  | 79  | 73  | 67  | 79 | 73 | 67 | 62 | 60 | 56 | 53 | 49 | 46 | 44 | 39 | 37 | 35 | 30 |    |    |    |   |
| 3   | 79  | 69  | 62  | 55  | 72 | 64 | 57 | 51 | 53 | 48 | 44 | 43 | 39 | 36 | 34 | 31 | 29 | 25 |    |    |    |   |
| 4   | 72  | 61  | 53  | 47  | 66 | 56 | 49 | 43 | 47 | 41 | 37 | 38 | 34 | 31 | 30 | 27 | 25 | 21 |    |    |    |   |
| 5   | 66  | 54  | 46  | 40  | 60 | 50 | 42 | 37 | 42 | 36 | 32 | 34 | 30 | 27 | 27 | 24 | 21 | 18 |    |    |    |   |
| 6   | 61  | 48  | 40  | 34  | 55 | 45 | 37 | 32 | 37 | 32 | 27 | 31 | 26 | 23 | 24 | 21 | 19 | 16 |    |    |    |   |
| 7   | 56  | 44  | 35  | 30  | 51 | 40 | 33 | 28 | 34 | 28 | 24 | 28 | 24 | 20 | 22 | 19 | 17 | 14 |    |    |    |   |
| 8   | 52  | 39  | 32  | 26  | 47 | 36 | 29 | 25 | 31 | 25 | 21 | 25 | 21 | 18 | 20 | 17 | 15 | 12 |    |    |    |   |
| 9   | 48  | 36  | 28  | 23  | 44 | 33 | 26 | 22 | 28 | 23 | 19 | 23 | 19 | 16 | 19 | 16 | 13 | 11 |    |    |    |   |
| 10  | 45  | 33  | 26  | 21  | 41 | 31 | 24 | 19 | 26 | 21 | 17 | 22 | 17 | 14 | 17 | 14 | 12 | 10 |    |    |    |   |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 8582 | 8582 | 8582 |
| 5°  | 8608 | 8387 | 8412 |
| 10° | 8556 | 8250 | 8244 |
| 15° | 8479 | 8091 | 8047 |
| 20° | 8364 | 7916 | 7856 |
| 25° | 8233 | 7719 | 7645 |
| 30° | 8093 | 7524 | 7428 |
| 35° | 7933 | 7324 | 7239 |
| 40° | 7804 | 7134 | 7041 |
| 45° | 7615 | 6958 | 6871 |
| 50° | 7455 | 6755 | 6692 |
| 55° | 7289 | 6565 | 6482 |
| 60° | 7031 | 6322 | 6290 |
| 65° | 6747 | 6061 | 6055 |
| 70° | 6405 | 5763 | 5780 |
| 75° | 5924 | 5435 | 5533 |
| 80° | 5397 | 5119 | 5288 |
| 85° | 4721 | 4842 | 5146 |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 100.7  | 1.4       |
| 10°-20°   | 288.4  | 3.9       |
| 20°-30°   | 436.1  | 5.9       |
| 30°-40°   | 527.7  | 7.2       |
| 40°-50°   | 557.9  | 7.6       |
| 50°-60°   | 525.0  | 7.2       |
| 60°-70°   | 435.6  | 5.9       |
| 70°-80°   | 306.0  | 4.2       |
| 80°-90°   | 175.8  | 2.4       |
| 90°-100°  | 470.5  | 6.4       |
| 100°-110° | 841.6  | 11.5      |
| 110°-120° | 736.7  | 10.1      |
| 120°-130° | 605.6  | 8.3       |
| 130°-140° | 493.3  | 6.7       |
| 140°-150° | 369.9  | 5.0       |
| 150°-160° | 258.3  | 3.5       |
| 160°-170° | 151.9  | 2.1       |
| 170°-180° | 49.4   | 0.7       |
| 0°-30°    | 825.2  | 11.3      |
| 0°-40°    | 1352.9 | 18.5      |
| 0°-60°    | 2435.8 | 33.2      |
| 0°-90°    | 3353.1 | 45.7      |
| 90°-120°  | 2048.8 | 27.9      |
| 90°-150°  | 3517.6 | 48.0      |
| 90°-180°  | 3977.0 | 54.3      |
| 0°-180°   | 7330.3 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 1063 | 1063  | 1063 | 1063  | 1063 |      |
| 5°   | 1064 | 1060  | 1052 | 1061  | 1061 | 101  |
| 15°  | 1020 | 1021  | 1018 | 1028  | 1027 | 287  |
| 25°  | 933  | 940   | 944  | 956   | 958  | 430  |
| 35°  | 817  | 831   | 843  | 859   | 863  | 511  |
| 45°  | 681  | 704   | 726  | 746   | 752  | 526  |
| 55°  | 533  | 559   | 594  | 617   | 625  | 475  |
| 65°  | 369  | 407   | 448  | 476   | 487  | 366  |
| 75°  | 205  | 249   | 299  | 331   | 343  | 218  |
| 85°  | 63   | 113   | 167  | 201   | 214  | 67   |
| 90°  | 20   | 75    | 136  | 171   | 183  | 14   |
| 95°  | 48   | 159   | 919  | 538   | 390  | 49   |
| 105° | 128  | 205   | 735  | 1520  | 1526 | 137  |
| 115° | 213  | 278   | 641  | 1206  | 1442 | 212  |
| 125° | 292  | 346   | 616  | 1012  | 1142 | 260  |
| 135° | 344  | 409   | 588  | 878   | 1001 | 266  |
| 145° | 394  | 450   | 574  | 723   | 799  | 248  |
| 155° | 447  | 483   | 558  | 632   | 659  | 206  |
| 165° | 487  | 502   | 535  | 567   | 575  | 138  |
| 175° | 508  | 509   | 513  | 520   | 518  | 48   |
| 180° | 509  | 509   | 509  | 509   | 509  |      |



TEST NUMBER: P332666-935

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**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1063.1 | 1063.1 | 1063.1 | 1063.1 | 1063.1 | 1063.1 | 1063.1 | 1063.1 | 1063.1 | 1063.1 | 1063.1 |
| 2.5°   | 1066.9 | 1066.3 | 1065.6 | 1065.0 | 1064.3 | 1063.2 | 1061.4 | 1059.8 | 1058.1 | 1056.4 | 1057.8 |
| 5°     | 1064.2 | 1063.4 | 1062.6 | 1061.9 | 1061.1 | 1059.7 | 1057.9 | 1056.0 | 1054.2 | 1052.3 | 1054.5 |
| 7.5°   | 1055.2 | 1054.7 | 1054.2 | 1053.8 | 1053.3 | 1052.3 | 1050.8 | 1049.2 | 1047.7 | 1046.1 | 1048.5 |
| 10°    | 1047.6 | 1047.3 | 1047.1 | 1046.8 | 1046.5 | 1045.7 | 1044.4 | 1043.1 | 1041.7 | 1040.4 | 1042.8 |
| 12.5°  | 1037.1 | 1037.1 | 1037.0 | 1036.9 | 1036.9 | 1036.4 | 1035.5 | 1034.6 | 1033.7 | 1032.8 | 1035.0 |
| 15°    | 1020.2 | 1020.5 | 1020.7 | 1021.0 | 1021.2 | 1021.0 | 1020.2 | 1019.4 | 1018.6 | 1017.8 | 1020.2 |
| 17.5°  | 997.1  | 997.9  | 998.7  | 999.4  | 1000.3 | 1000.6 | 1000.4 | 1000.3 | 1000.1 | 1000.0 | 1002.4 |
| 20°    | 980.9  | 981.7  | 982.5  | 983.3  | 984.1  | 984.6  | 984.9  | 985.2  | 985.4  | 985.7  | 988.3  |
| 22.5°  | 962.8  | 963.8  | 964.8  | 965.9  | 966.8  | 967.6  | 968.0  | 968.5  | 969.0  | 969.5  | 972.2  |
| 25°    | 933.3  | 934.9  | 936.4  | 938.1  | 939.6  | 940.8  | 941.6  | 942.5  | 943.2  | 944.0  | 946.9  |
| 27.5°  | 900.4  | 902.8  | 905.1  | 907.4  | 909.7  | 911.5  | 912.7  | 914.0  | 915.2  | 916.4  | 919.1  |
| 30°    | 878.6  | 880.6  | 882.8  | 884.8  | 887.0  | 889.0  | 890.8  | 892.7  | 894.5  | 896.4  | 899.3  |
| 32.5°  | 854.7  | 857.3  | 859.8  | 862.4  | 864.9  | 867.2  | 869.3  | 871.3  | 873.4  | 875.5  | 878.7  |
| 35°    | 816.7  | 819.8  | 822.9  | 826.1  | 829.3  | 832.2  | 834.9  | 837.5  | 840.2  | 842.8  | 846.5  |
| 37.5°  | 778.3  | 782.0  | 785.6  | 789.3  | 792.9  | 796.3  | 799.6  | 802.9  | 806.2  | 809.5  | 813.2  |
| 40°    | 753.5  | 757.0  | 760.4  | 763.9  | 767.3  | 770.9  | 774.6  | 778.3  | 782.0  | 785.7  | 789.6  |
| 42.5°  | 725.0  | 728.8  | 732.7  | 736.6  | 740.4  | 744.5  | 748.8  | 753.2  | 757.5  | 761.9  | 766.3  |
| 45°    | 680.9  | 686.0  | 691.0  | 696.0  | 701.0  | 706.0  | 711.1  | 716.1  | 721.1  | 726.2  | 730.6  |
| 47.5°  | 638.8  | 643.9  | 649.1  | 654.4  | 659.5  | 665.0  | 670.8  | 676.7  | 682.5  | 688.3  | 692.9  |
| 50°    | 608.3  | 614.2  | 619.9  | 625.8  | 631.5  | 637.4  | 643.3  | 649.0  | 654.9  | 660.6  | 666.0  |
| 52.5°  | 577.8  | 583.7  | 589.4  | 595.3  | 601.2  | 607.3  | 614.0  | 620.7  | 627.3  | 634.0  | 639.3  |
| 55°    | 533.3  | 538.9  | 544.4  | 550.0  | 555.5  | 562.2  | 570.2  | 578.2  | 586.1  | 594.0  | 599.3  |
| 57.5°  | 483.5  | 490.4  | 497.3  | 504.2  | 511.1  | 518.4  | 526.3  | 534.3  | 542.1  | 550.0  | 556.3  |
| 60°    | 451.2  | 458.1  | 464.9  | 471.8  | 478.7  | 486.5  | 495.2  | 503.9  | 512.6  | 521.4  | 527.4  |
| 62.5°  | 419.7  | 427.2  | 434.8  | 442.3  | 449.8  | 457.9  | 466.7  | 475.4  | 484.1  | 492.8  | 498.9  |
| 65°    | 369.0  | 377.5  | 386.0  | 394.4  | 402.9  | 411.6  | 420.6  | 429.6  | 438.6  | 447.6  | 454.2  |
| 67.5°  | 320.2  | 329.2  | 338.2  | 347.2  | 356.2  | 365.5  | 375.1  | 384.8  | 394.4  | 404.1  | 410.8  |
| 70°    | 286.9  | 295.9  | 304.9  | 313.8  | 322.9  | 332.4  | 342.4  | 352.5  | 362.6  | 372.6  | 379.8  |
| 72.5°  | 254.5  | 263.7  | 272.9  | 282.1  | 291.4  | 301.3  | 311.9  | 322.6  | 333.4  | 344.1  | 350.9  |
| 75°    | 204.7  | 214.6  | 224.3  | 234.1  | 243.9  | 254.3  | 265.4  | 276.6  | 287.7  | 298.8  | 306.2  |
| 77.5°  | 158.3  | 168.7  | 179.1  | 189.4  | 199.8  | 210.8  | 222.5  | 234.1  | 245.7  | 257.4  | 264.8  |
| 80°    | 129.8  | 140.3  | 150.9  | 161.5  | 172.1  | 183.2  | 194.8  | 206.5  | 218.1  | 229.7  | 237.7  |
| 82.5°  | 101.2  | 112.2  | 123.2  | 134.2  | 145.2  | 156.5  | 168.2  | 179.8  | 191.5  | 203.1  | 211.2  |
| 85°    | 63.1   | 74.2   | 85.3   | 96.4   | 107.5  | 119.1  | 131.0  | 142.8  | 154.7  | 166.7  | 174.6  |
| 87.5°  | 35.5   | 46.7   | 58.0   | 69.1   | 80.0   | 91.2   | 104.0  | 115.5  | 127.6  | 139.6  | 147.1  |
| 90°    | 20.1   | 32.6   | 46.2   | 57.8   | 69.4   | 80.3   | 97.7   | 109.1  | 122.5  | 135.9  | 142.5  |
| 92.5°  | 29.5   | 44.3   | 63.1   | 84.9   | 109.0  | 140.3  | 202.5  | 291.4  | 378.5  | 429.5  | 383.9  |
| 95°    | 48.5   | 60.2   | 79.0   | 100.7  | 133.5  | 185.2  | 283.1  | 458.1  | 708.0  | 918.9  | 949.1  |
| 97.5°  | 73.3   | 80.8   | 96.9   | 116.4  | 144.6  | 188.9  | 266.7  | 412.8  | 661.3  | 955.0  | 1156.4 |
| 100°   | 89.1   | 96.0   | 109.9  | 128.8  | 154.6  | 195.3  | 264.6  | 388.0  | 602.4  | 894.8  | 1158.1 |
| 102.5° | 105.1  | 112.8  | 125.0  | 142.2  | 166.5  | 205.0  | 268.5  | 378.1  | 561.8  | 822.1  | 1093.1 |
| 105°   | 127.8  | 136.0  | 146.4  | 163.7  | 186.9  | 223.5  | 281.3  | 374.1  | 524.0  | 734.9  | 976.6  |
| 107.5° | 155.2  | 161.5  | 170.8  | 188.0  | 209.5  | 245.0  | 298.3  | 383.1  | 512.0  | 683.1  | 881.6  |
| 110°   | 172.6  | 178.3  | 187.0  | 202.7  | 224.5  | 258.0  | 311.2  | 390.5  | 509.8  | 664.2  | 833.3  |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 5°    | 10°   | 15°   | 20°   | 25°   | 30°   | 35°   | 40°   | 45°   | 50°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 189.2 | 194.5 | 203.6 | 218.1 | 239.4 | 272.5 | 323.7 | 398.6 | 510.3 | 652.2 | 803.5 |
| 115°   | 213.3 | 218.6 | 228.0 | 240.4 | 261.7 | 294.2 | 342.7 | 411.2 | 512.7 | 641.3 | 773.1 |
| 117.5° | 239.4 | 243.7 | 251.2 | 263.7 | 282.9 | 315.6 | 361.5 | 424.6 | 515.9 | 633.1 | 755.3 |
| 120°   | 256.1 | 258.9 | 266.7 | 278.4 | 296.3 | 328.5 | 374.2 | 433.9 | 518.6 | 628.4 | 744.7 |
| 122.5° | 272.1 | 274.2 | 281.4 | 291.8 | 310.6 | 341.5 | 386.7 | 442.8 | 521.5 | 622.8 | 733.5 |
| 125°   | 291.9 | 295.7 | 301.4 | 312.1 | 330.9 | 362.1 | 404.7 | 457.3 | 526.9 | 615.6 | 716.7 |
| 127.5° | 310.3 | 313.2 | 320.1 | 332.5 | 352.1 | 382.6 | 422.6 | 469.8 | 529.9 | 606.2 | 695.1 |
| 130°   | 319.7 | 323.5 | 331.2 | 345.9 | 364.7 | 395.7 | 433.9 | 477.2 | 532.4 | 600.7 | 681.5 |
| 132.5° | 330.1 | 333.0 | 343.2 | 357.1 | 377.5 | 406.5 | 443.8 | 485.4 | 535.1 | 596.1 | 669.5 |
| 135°   | 343.5 | 347.6 | 357.6 | 374.5 | 395.5 | 422.5 | 457.4 | 495.2 | 538.1 | 588.0 | 650.2 |
| 137.5° | 358.2 | 361.7 | 372.5 | 388.4 | 409.9 | 435.1 | 466.7 | 501.3 | 538.6 | 582.3 | 634.0 |
| 140°   | 368.6 | 371.3 | 382.0 | 398.8 | 419.6 | 443.5 | 473.8 | 506.1 | 540.4 | 578.7 | 625.1 |
| 142.5° | 378.8 | 381.8 | 391.9 | 408.0 | 428.3 | 451.3 | 480.4 | 509.8 | 542.1 | 576.8 | 618.0 |
| 145°   | 394.3 | 397.1 | 406.8 | 420.6 | 439.4 | 461.2 | 487.2 | 514.3 | 543.3 | 574.3 | 607.9 |
| 147.5° | 412.2 | 412.9 | 421.5 | 435.6 | 451.2 | 470.8 | 495.2 | 518.8 | 544.2 | 570.7 | 599.1 |
| 150°   | 423.4 | 424.1 | 431.9 | 443.6 | 458.3 | 477.3 | 499.2 | 521.2 | 544.2 | 568.3 | 593.3 |
| 152.5° | 432.8 | 433.0 | 440.9 | 452.1 | 465.5 | 482.8 | 502.5 | 522.9 | 542.7 | 564.3 | 586.9 |
| 155°   | 447.2 | 448.2 | 454.2 | 464.3 | 475.3 | 490.3 | 507.2 | 524.3 | 540.3 | 558.3 | 577.3 |
| 157.5° | 461.4 | 461.4 | 467.0 | 474.8 | 484.4 | 496.3 | 510.7 | 524.3 | 537.7 | 552.1 | 567.5 |
| 160°   | 470.2 | 470.2 | 474.2 | 481.2 | 489.2 | 500.2 | 512.2 | 524.3 | 535.3 | 547.3 | 560.3 |
| 162.5° | 478.2 | 477.4 | 480.6 | 486.8 | 494.0 | 502.7 | 513.8 | 524.3 | 532.9 | 542.4 | 553.9 |
| 165°   | 487.2 | 487.2 | 489.2 | 494.2 | 499.2 | 505.2 | 514.3 | 522.3 | 528.2 | 535.3 | 543.3 |
| 167.5° | 496.3 | 495.2 | 496.3 | 500.1 | 502.8 | 507.5 | 514.0 | 519.9 | 523.5 | 528.1 | 533.6 |
| 170°   | 500.2 | 499.2 | 500.2 | 503.3 | 505.2 | 508.2 | 513.2 | 518.2 | 520.2 | 523.2 | 527.3 |
| 172.5° | 504.2 | 503.3 | 503.4 | 505.7 | 506.9 | 509.0 | 512.5 | 516.7 | 517.0 | 518.4 | 521.7 |
| 175°   | 508.2 | 507.2 | 507.2 | 508.2 | 509.3 | 509.3 | 511.3 | 514.3 | 513.2 | 513.2 | 515.2 |
| 177.5° | 510.1 | 509.3 | 508.4 | 509.3 | 509.3 | 509.3 | 510.1 | 511.6 | 510.1 | 510.1 | 510.8 |
| 180°   | 509.3 | 509.3 | 509.3 | 509.3 | 509.3 | 509.3 | 509.3 | 509.3 | 509.3 | 509.3 | 509.3 |



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**CANDELA DISTRIBUTION (continued):**

|        | 55°    | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1063.1 | 1063.1 | 1063.1 | 1063.1 | 1063.1 | 1063.1 | 1063.1 | 1063.1 |
| 2.5°   | 1059.4 | 1060.8 | 1062.3 | 1062.9 | 1062.7 | 1062.5 | 1062.3 | 1062.1 |
| 5°     | 1056.5 | 1058.7 | 1060.8 | 1061.7 | 1061.4 | 1061.2 | 1060.9 | 1060.7 |
| 7.5°   | 1050.9 | 1053.3 | 1055.7 | 1056.7 | 1056.4 | 1056.2 | 1055.9 | 1055.7 |
| 10°    | 1045.2 | 1047.6 | 1050.0 | 1051.0 | 1050.8 | 1050.5 | 1050.2 | 1050.0 |
| 12.5°  | 1037.2 | 1039.3 | 1041.5 | 1042.6 | 1042.5 | 1042.4 | 1042.4 | 1042.3 |
| 15°    | 1022.6 | 1024.9 | 1027.3 | 1028.4 | 1028.1 | 1027.9 | 1027.6 | 1027.3 |
| 17.5°  | 1004.8 | 1007.3 | 1009.7 | 1010.8 | 1010.6 | 1010.4 | 1010.1 | 1010.0 |
| 20°    | 990.9  | 993.6  | 996.3  | 997.6  | 997.6  | 997.6  | 997.6  | 997.6  |
| 22.5°  | 974.7  | 977.4  | 980.1  | 981.6  | 982.1  | 982.4  | 982.8  | 983.3  |
| 25°    | 949.9  | 952.7  | 955.6  | 957.3  | 957.5  | 957.8  | 958.0  | 958.3  |
| 27.5°  | 921.8  | 924.5  | 927.2  | 928.7  | 929.0  | 929.4  | 929.6  | 930.0  |
| 30°    | 902.2  | 905.1  | 908.0  | 909.7  | 910.2  | 910.8  | 911.4  | 911.9  |
| 32.5°  | 882.1  | 885.5  | 888.8  | 890.7  | 891.2  | 891.7  | 892.3  | 892.9  |
| 35°    | 850.2  | 853.9  | 857.6  | 859.9  | 860.7  | 861.4  | 862.3  | 863.1  |
| 37.5°  | 817.0  | 820.8  | 824.5  | 826.8  | 827.7  | 828.5  | 829.3  | 830.2  |
| 40°    | 793.6  | 797.5  | 801.6  | 804.1  | 805.1  | 806.2  | 807.3  | 808.3  |
| 42.5°  | 770.7  | 775.1  | 779.5  | 782.0  | 782.9  | 783.8  | 784.6  | 785.4  |
| 45°    | 735.1  | 739.7  | 744.2  | 747.1  | 748.4  | 749.7  | 751.1  | 752.3  |
| 47.5°  | 697.6  | 702.2  | 707.0  | 710.1  | 711.6  | 713.3  | 714.8  | 716.4  |
| 50°    | 671.2  | 676.6  | 681.8  | 685.3  | 686.9  | 688.5  | 690.0  | 691.6  |
| 52.5°  | 644.6  | 649.9  | 655.2  | 658.6  | 660.2  | 661.8  | 663.4  | 665.0  |
| 55°    | 604.6  | 609.9  | 615.2  | 618.6  | 620.2  | 621.8  | 623.4  | 625.0  |
| 57.5°  | 562.6  | 568.9  | 575.1  | 579.0  | 580.5  | 582.0  | 583.5  | 585.0  |
| 60°    | 533.6  | 539.7  | 545.7  | 549.8  | 552.0  | 554.1  | 556.2  | 558.3  |
| 62.5°  | 505.0  | 511.1  | 517.2  | 521.2  | 523.4  | 525.5  | 527.6  | 529.8  |
| 65°    | 460.8  | 467.4  | 474.1  | 478.5  | 480.5  | 482.7  | 484.7  | 486.9  |
| 67.5°  | 417.5  | 424.2  | 430.9  | 435.3  | 437.4  | 439.5  | 441.5  | 443.6  |
| 70°    | 386.8  | 394.0  | 401.1  | 405.7  | 407.5  | 409.4  | 411.2  | 413.1  |
| 72.5°  | 357.9  | 364.8  | 371.8  | 376.3  | 378.3  | 380.4  | 382.5  | 384.5  |
| 75°    | 313.6  | 321.0  | 328.4  | 333.3  | 335.7  | 338.1  | 340.4  | 342.9  |
| 77.5°  | 272.4  | 279.9  | 287.4  | 292.5  | 295.0  | 297.6  | 300.1  | 302.6  |
| 80°    | 245.6  | 253.6  | 261.5  | 266.5  | 268.6  | 270.8  | 272.9  | 275.0  |
| 82.5°  | 219.4  | 227.6  | 235.7  | 240.9  | 243.2  | 245.6  | 247.9  | 250.2  |
| 85°    | 182.5  | 190.5  | 198.4  | 203.7  | 206.4  | 209.0  | 211.6  | 214.3  |
| 87.5°  | 154.9  | 162.7  | 170.7  | 175.6  | 178.1  | 180.7  | 182.8  | 185.1  |
| 90°    | 151.2  | 159.9  | 168.6  | 173.4  | 176.6  | 179.7  | 180.8  | 182.9  |
| 92.5°  | 323.6  | 282.4  | 259.6  | 244.4  | 234.7  | 231.4  | 230.1  | 232.3  |
| 95°    | 859.2  | 711.3  | 584.4  | 492.1  | 445.4  | 416.8  | 401.1  | 390.5  |
| 97.5°  | 1205.4 | 1154.7 | 1063.8 | 963.9  | 894.3  | 836.4  | 808.7  | 790.1  |
| 100°   | 1311.3 | 1338.5 | 1296.6 | 1227.1 | 1141.9 | 1082.7 | 1054.6 | 1048.4 |
| 102.5° | 1300.5 | 1406.7 | 1427.9 | 1401.5 | 1350.2 | 1308.0 | 1278.5 | 1274.1 |
| 105°   | 1212.4 | 1392.1 | 1497.7 | 1543.1 | 1547.2 | 1541.3 | 1529.4 | 1525.5 |
| 107.5° | 1091.0 | 1281.8 | 1427.7 | 1521.2 | 1572.5 | 1597.2 | 1609.1 | 1613.7 |
| 110°   | 1017.4 | 1196.6 | 1347.8 | 1462.0 | 1535.1 | 1579.2 | 1599.4 | 1610.5 |





TEST NUMBER: P332666-935

CATALOG NUMBER: S124DIP-S1020D1205U935-4F0-1E-UDD-D4

**CANDELA DISTRIBUTION (continued):**

|        | 55°   | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    |
|--------|-------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 961.8 | 1120.8 | 1263.8 | 1377.8 | 1460.5 | 1513.5 | 1540.8 | 1557.5 |
| 115°   | 904.0 | 1032.9 | 1155.7 | 1255.6 | 1336.5 | 1398.4 | 1432.3 | 1442.1 |
| 117.5° | 871.4 | 978.8  | 1076.3 | 1161.6 | 1231.1 | 1283.7 | 1318.2 | 1326.5 |
| 120°   | 855.0 | 953.4  | 1038.7 | 1113.4 | 1172.6 | 1218.7 | 1246.8 | 1260.0 |
| 122.5° | 840.7 | 935.8  | 1013.9 | 1079.7 | 1129.9 | 1169.4 | 1193.3 | 1206.2 |
| 125°   | 817.8 | 908.8  | 982.9  | 1041.2 | 1082.8 | 1113.4 | 1134.0 | 1141.6 |
| 127.5° | 790.1 | 877.1  | 950.6  | 1006.2 | 1048.2 | 1075.8 | 1093.6 | 1101.4 |
| 130°   | 769.3 | 853.1  | 925.9  | 982.1  | 1024.7 | 1051.3 | 1068.9 | 1076.5 |
| 132.5° | 748.3 | 827.1  | 898.0  | 954.2  | 995.9  | 1025.7 | 1042.5 | 1050.2 |
| 135°   | 717.6 | 786.8  | 852.0  | 905.0  | 946.6  | 976.2  | 993.8  | 1001.3 |
| 137.5° | 690.3 | 749.2  | 804.4  | 852.3  | 891.0  | 920.0  | 934.4  | 943.1  |
| 140°   | 674.6 | 725.0  | 773.5  | 817.9  | 854.3  | 877.6  | 892.9  | 902.2  |
| 142.5° | 660.6 | 705.1  | 746.7  | 785.1  | 817.3  | 838.8  | 852.3  | 859.0  |
| 145°   | 641.4 | 677.1  | 708.7  | 738.0  | 764.1  | 782.1  | 793.2  | 799.3  |
| 147.5° | 625.7 | 653.0  | 677.2  | 699.7  | 718.9  | 734.4  | 742.9  | 745.5  |
| 150°   | 617.3 | 640.3  | 660.3  | 678.3  | 694.3  | 707.3  | 713.3  | 714.4  |
| 152.5° | 608.5 | 628.3  | 646.7  | 661.5  | 675.1  | 685.7  | 689.3  | 690.3  |
| 155°   | 595.3 | 611.3  | 626.3  | 638.3  | 648.3  | 656.3  | 659.4  | 659.4  |
| 157.5° | 581.1 | 594.5  | 607.1  | 616.7  | 624.3  | 630.3  | 632.1  | 632.1  |
| 160°   | 572.3 | 583.2  | 594.3  | 602.3  | 608.3  | 614.3  | 615.3  | 615.3  |
| 162.5° | 563.4 | 572.9  | 581.5  | 588.7  | 593.1  | 599.1  | 600.1  | 599.3  |
| 165°   | 551.3 | 557.2  | 564.3  | 569.3  | 573.3  | 577.3  | 576.3  | 575.3  |
| 167.5° | 539.5 | 544.1  | 549.7  | 552.7  | 554.7  | 557.2  | 557.1  | 556.3  |
| 170°   | 532.3 | 535.3  | 539.2  | 542.3  | 544.2  | 545.3  | 544.2  | 544.2  |
| 172.5° | 525.8 | 528.1  | 530.5  | 532.6  | 533.8  | 534.9  | 533.8  | 532.3  |
| 175°   | 517.3 | 518.2  | 520.2  | 520.2  | 520.2  | 522.3  | 520.2  | 518.2  |
| 177.5° | 511.6 | 512.5  | 512.5  | 513.2  | 512.5  | 513.2  | 511.6  | 510.1  |
| 180°   | 509.3 | 509.3  | 509.3  | 509.3  | 509.3  | 509.3  | 509.3  | 509.3  |

(END OF REPORT)