

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: P332630-935

Luminaire Tested: **S124DIP-S1020D365U935-4F0-1E-UDD-D4**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P332630-935  
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-S1020D365U935-4F0-1E-UDD-D4  
Description: DEFINE 4 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 1020 LUMENS PER FOOT, DROP SATIN WHITE DIFFUSER  
UPLIGHT 365 LUMENS PER FOOT, BATWING OPTIC  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4751.1 lumens  
Efficiency: N/A  
Efficacy: 109.2 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: Semi-Direct

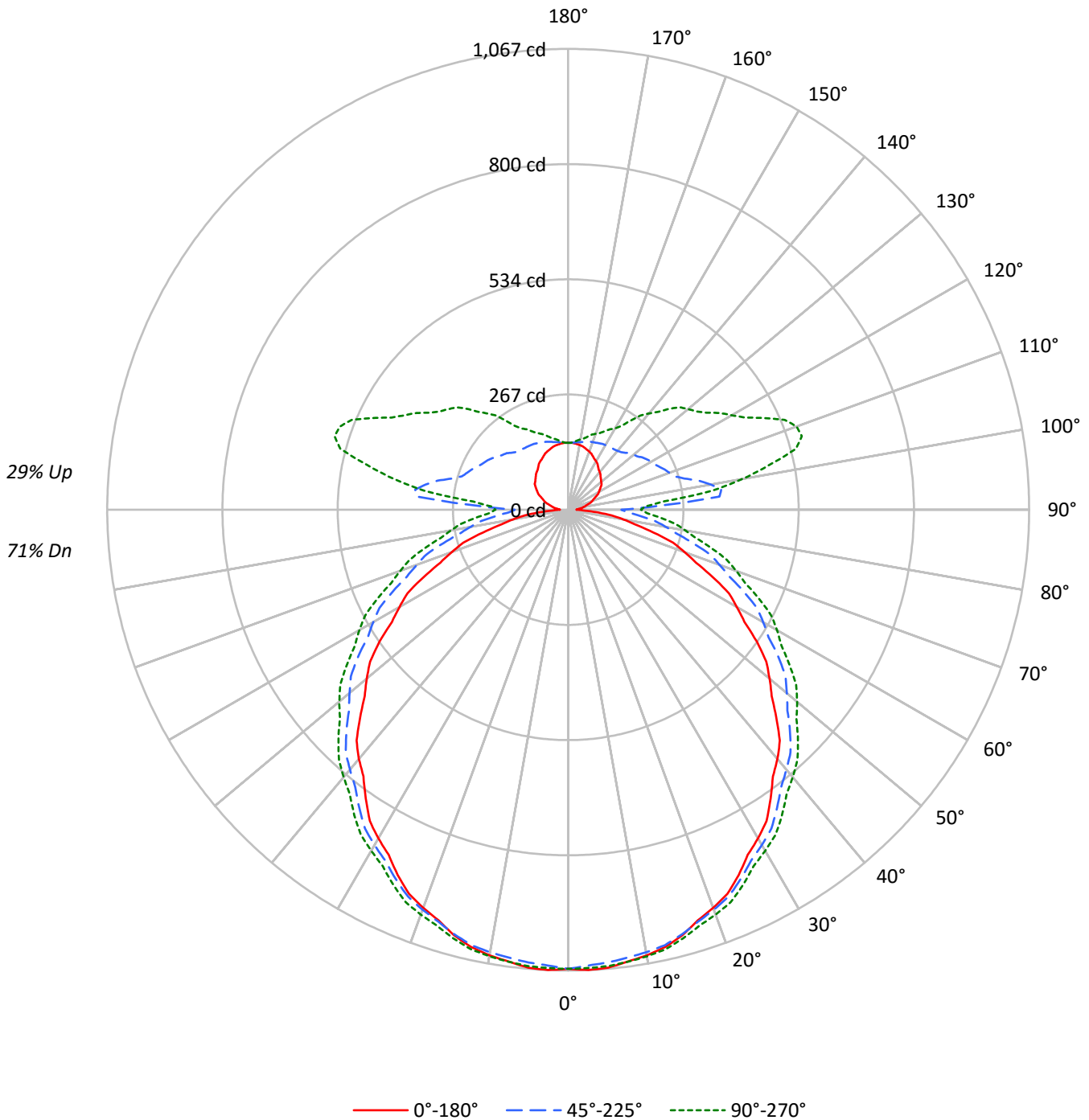
Input Watts (W): 43.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P332630-935

CATALOG NUMBER: S124DIP-S1020D365U935-4F0-1E-UDD-D4

### Luminous Intensity Polar Plot





TEST NUMBER: P332630-935

CATALOG NUMBER: S124DIP-S1020D365U935-4F0-1E-UDD-D4

**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   | 112 | 112 | 112 | 112 | 106 | 106 | 106 | 106 | 95 | 95 | 95 | 84 | 84 | 84 | 75 | 75 | 75 | 71 |
| 1   | 101 | 96  | 91  | 87  | 95  | 91  | 87  | 83  | 81 | 78 | 75 | 72 | 70 | 68 | 64 | 62 | 61 | 56 |
| 2   | 91  | 83  | 76  | 70  | 86  | 79  | 72  | 67  | 70 | 65 | 61 | 63 | 59 | 55 | 56 | 53 | 50 | 46 |
| 3   | 83  | 72  | 64  | 58  | 78  | 69  | 61  | 55  | 61 | 56 | 51 | 55 | 50 | 46 | 49 | 45 | 42 | 38 |
| 4   | 76  | 64  | 55  | 49  | 71  | 61  | 53  | 47  | 54 | 48 | 43 | 49 | 43 | 39 | 43 | 39 | 36 | 32 |
| 5   | 69  | 57  | 48  | 41  | 65  | 54  | 46  | 40  | 49 | 42 | 37 | 43 | 38 | 34 | 39 | 34 | 31 | 28 |
| 6   | 64  | 51  | 42  | 36  | 60  | 48  | 40  | 35  | 44 | 37 | 32 | 39 | 34 | 29 | 35 | 31 | 27 | 24 |
| 7   | 59  | 46  | 37  | 31  | 56  | 44  | 36  | 30  | 40 | 33 | 28 | 36 | 30 | 26 | 32 | 27 | 24 | 21 |
| 8   | 55  | 42  | 33  | 28  | 52  | 40  | 32  | 27  | 36 | 30 | 25 | 33 | 27 | 23 | 29 | 25 | 21 | 19 |
| 9   | 51  | 38  | 30  | 25  | 48  | 36  | 29  | 24  | 33 | 27 | 22 | 30 | 25 | 21 | 27 | 22 | 19 | 17 |
| 10  | 48  | 35  | 27  | 22  | 45  | 34  | 26  | 22  | 31 | 24 | 20 | 28 | 22 | 19 | 25 | 21 | 17 | 15 |

**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 |



TEST NUMBER: P332630-935

CATALOG NUMBER: S124DIP-S1020D365U935-4F0-1E-UDD-D4

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 100.7  | 2.1       |
| 10°-20°   | 288.4  | 6.1       |
| 20°-30°   | 436.1  | 9.2       |
| 30°-40°   | 527.7  | 11.1      |
| 40°-50°   | 557.9  | 11.7      |
| 50°-60°   | 525.0  | 11.1      |
| 60°-70°   | 435.6  | 9.2       |
| 70°-80°   | 306.0  | 6.4       |
| 80°-90°   | 173.8  | 3.7       |
| 90°-100°  | 214.6  | 4.5       |
| 100°-110° | 308.9  | 6.5       |
| 110°-120° | 259.6  | 5.5       |
| 120°-130° | 204.2  | 4.3       |
| 130°-140° | 158.7  | 3.3       |
| 140°-150° | 114.3  | 2.4       |
| 150°-160° | 78.6   | 1.7       |
| 160°-170° | 46.2   | 1.0       |
| 170°-180° | 15.0   | 0.3       |
| 0°-30°    | 825.2  | 17.4      |
| 0°-40°    | 1352.9 | 28.5      |
| 0°-60°    | 2435.8 | 51.3      |
| 0°-90°    | 3351.1 | 70.5      |
| 90°-120°  | 783.0  | 16.5      |
| 90°-150°  | 1260.2 | 26.5      |
| 90°-180°  | 1400.0 | 29.5      |
| 0°-180°   | 4751.1 | 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°  | 19   | 69    | 123  | 157   | 168  | 13   |
| 95°  | 26   | 87    | 352  | 257   | 221  | 24   |
| 105° | 46   | 87    | 278  | 537   | 546  | 50   |
| 115° | 70   | 98    | 234  | 423   | 502  | 70   |
| 125° | 92   | 109   | 210  | 346   | 391  | 82   |
| 135° | 106  | 126   | 186  | 287   | 330  | 82   |
| 145° | 121  | 137   | 175  | 225   | 251  | 76   |
| 155° | 136  | 147   | 170  | 192   | 200  | 63   |
| 165° | 148  | 153   | 163  | 172   | 175  | 42   |
| 175° | 154  | 155   | 156  | 158   | 158  | 15   |
| 180° | 155  | 155   | 155  | 155   | 155  |      |



TEST NUMBER: P332630-935

CATALOG NUMBER: S124DIP-S1020D365U935-4F0-1E-UDD-D4

**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°  | 35.3   | 46.2   | 57.2   | 68.0   | 78.9   | 90.1   | 102.0  | 113.7  | 125.4  | 137.1  | 144.6  |
| 90°    | 19.4   | 30.6   | 42.0   | 53.0   | 63.8   | 74.8   | 88.0   | 99.4   | 111.3  | 123.3  | 130.7  |
| 92.5°  | 21.5   | 32.6   | 45.0   | 58.3   | 72.2   | 89.0   | 115.9  | 150.8  | 185.2  | 208.6  | 200.0  |
| 95°    | 25.5   | 35.1   | 46.9   | 59.6   | 75.7   | 98.2   | 135.5  | 196.3  | 279.8  | 351.5  | 365.8  |
| 97.5°  | 32.0   | 39.6   | 49.7   | 60.9   | 74.6   | 94.5   | 125.6  | 177.5  | 260.6  | 357.4  | 423.5  |
| 100°   | 36.2   | 43.1   | 52.1   | 62.6   | 75.3   | 93.6   | 121.9  | 166.6  | 239.0  | 335.1  | 420.2  |
| 102.5° | 41.1   | 47.6   | 55.5   | 65.0   | 76.5   | 93.8   | 120.2  | 160.6  | 223.5  | 309.7  | 396.9  |
| 105°   | 46.3   | 52.5   | 59.3   | 68.3   | 79.0   | 95.4   | 119.8  | 154.8  | 207.2  | 278.2  | 356.3  |
| 107.5° | 54.5   | 59.4   | 65.3   | 73.5   | 83.1   | 98.6   | 121.2  | 153.5  | 199.1  | 257.6  | 322.5  |
| 110°   | 59.2   | 63.5   | 68.6   | 76.0   | 85.2   | 99.9   | 122.5  | 153.1  | 195.9  | 249.3  | 304.9  |



TEST NUMBER: P332630-935

CATALOG NUMBER: S124DIP-S1020D365U935-4F0-1E-UDD-D4

**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 5°    | 10°   | 15°   | 20°   | 25°   | 30°   | 35°   | 40°   | 45°   | 50°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 63.5  | 67.4  | 72.5  | 79.1  | 87.9  | 102.2 | 123.9 | 152.8 | 193.0 | 242.3 | 292.4 |
| 115°   | 69.8  | 73.1  | 77.7  | 83.1  | 91.2  | 104.9 | 125.5 | 152.2 | 189.0 | 233.9 | 278.1 |
| 117.5° | 77.7  | 79.9  | 83.3  | 88.0  | 94.9  | 108.1 | 127.4 | 152.1 | 185.4 | 226.5 | 267.5 |
| 120°   | 82.1  | 83.4  | 86.4  | 90.5  | 96.4  | 109.2 | 128.5 | 152.0 | 183.0 | 221.8 | 260.8 |
| 122.5° | 86.9  | 87.6  | 90.0  | 93.2  | 99.0  | 111.0 | 129.8 | 152.0 | 180.9 | 216.7 | 254.1 |
| 125°   | 92.1  | 93.1  | 94.6  | 97.7  | 103.2 | 114.9 | 132.5 | 153.1 | 178.8 | 210.4 | 244.7 |
| 127.5° | 97.6  | 98.2  | 100.1 | 103.8 | 109.5 | 120.5 | 136.1 | 154.0 | 175.9 | 202.6 | 233.0 |
| 130°   | 99.7  | 100.7 | 102.9 | 107.2 | 112.7 | 123.5 | 138.0 | 154.1 | 173.9 | 197.6 | 225.5 |
| 132.5° | 102.9 | 103.6 | 106.5 | 110.6 | 116.6 | 126.5 | 140.2 | 155.2 | 172.6 | 193.6 | 219.0 |
| 135°   | 106.2 | 107.4 | 110.4 | 115.5 | 122.0 | 130.8 | 142.7 | 155.5 | 169.9 | 186.3 | 208.2 |
| 137.5° | 110.6 | 111.5 | 114.6 | 119.2 | 125.6 | 133.5 | 143.7 | 154.9 | 166.9 | 180.7 | 199.1 |
| 140°   | 113.7 | 114.4 | 117.5 | 122.4 | 128.5 | 135.9 | 145.3 | 155.2 | 165.8 | 177.6 | 194.2 |
| 142.5° | 116.2 | 117.1 | 120.1 | 125.0 | 131.1 | 138.0 | 146.8 | 155.6 | 165.3 | 175.7 | 190.4 |
| 145°   | 120.8 | 121.4 | 124.2 | 128.2 | 133.7 | 140.3 | 148.2 | 156.4 | 165.2 | 174.7 | 186.0 |
| 147.5° | 126.2 | 126.2 | 128.6 | 132.8 | 137.3 | 143.2 | 150.6 | 157.8 | 165.6 | 173.6 | 182.4 |
| 150°   | 129.6 | 129.7 | 131.8 | 135.2 | 139.5 | 145.2 | 151.9 | 158.5 | 165.6 | 172.8 | 180.5 |
| 152.5° | 131.8 | 131.8 | 134.2 | 137.6 | 141.5 | 146.9 | 152.8 | 159.0 | 165.1 | 171.6 | 178.5 |
| 155°   | 136.0 | 136.3 | 138.2 | 141.2 | 144.6 | 149.1 | 154.3 | 159.5 | 164.4 | 169.8 | 175.6 |
| 157.5° | 140.3 | 140.3 | 142.1 | 144.4 | 147.3 | 150.9 | 155.3 | 159.5 | 163.5 | 167.9 | 172.6 |
| 160°   | 143.0 | 143.0 | 144.2 | 146.4 | 148.8 | 152.1 | 155.8 | 159.5 | 162.8 | 166.4 | 170.4 |
| 162.5° | 145.4 | 145.3 | 146.2 | 148.1 | 150.2 | 152.9 | 156.3 | 159.5 | 162.0 | 165.0 | 168.5 |
| 165°   | 148.2 | 148.2 | 148.8 | 150.3 | 151.9 | 153.7 | 156.4 | 158.9 | 160.7 | 162.8 | 165.2 |
| 167.5° | 150.9 | 150.6 | 150.9 | 152.1 | 152.9 | 154.4 | 156.4 | 158.1 | 159.2 | 160.6 | 162.3 |
| 170°   | 152.1 | 151.9 | 152.1 | 153.1 | 153.7 | 154.5 | 156.1 | 157.6 | 158.3 | 159.1 | 160.4 |
| 172.5° | 153.3 | 153.1 | 153.1 | 153.8 | 154.1 | 154.8 | 155.8 | 157.1 | 157.3 | 157.6 | 158.7 |
| 175°   | 154.5 | 154.3 | 154.3 | 154.5 | 154.9 | 154.9 | 155.5 | 156.4 | 156.1 | 156.1 | 156.7 |
| 177.5° | 155.2 | 154.9 | 154.6 | 154.9 | 154.9 | 154.9 | 155.2 | 155.6 | 155.2 | 155.2 | 155.4 |
| 180°   | 154.9 | 154.9 | 154.9 | 154.9 | 154.9 | 154.9 | 154.9 | 154.9 | 154.9 | 154.9 | 154.9 |



TEST NUMBER: P332630-935

CATALOG NUMBER: S124DIP-S1020D365U935-4F0-1E-UDD-D4

**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°  | 152.4  | 160.1  | 167.8  | 172.9  | 175.2  | 177.6  | 179.9  | 182.2  |
| 90°    | 138.7  | 146.6  | 154.6  | 159.5  | 162.0  | 164.4  | 166.2  | 168.3  |
| 92.5°  | 186.8  | 179.5  | 177.8  | 176.5  | 175.0  | 175.5  | 176.5  | 178.7  |
| 95°    | 343.4  | 303.3  | 269.7  | 245.0  | 232.4  | 225.3  | 222.2  | 220.7  |
| 97.5°  | 443.2  | 432.6  | 409.7  | 382.6  | 363.0  | 347.0  | 340.1  | 336.0  |
| 100°   | 471.7  | 485.0  | 477.2  | 459.2  | 434.5  | 417.8  | 410.6  | 410.0  |
| 102.5° | 464.9  | 502.0  | 513.2  | 508.3  | 494.1  | 482.8  | 475.2  | 475.4  |
| 105°   | 432.7  | 491.9  | 528.6  | 545.4  | 548.2  | 547.9  | 545.7  | 546.0  |
| 107.5° | 390.7  | 453.3  | 502.2  | 533.6  | 550.5  | 559.4  | 564.3  | 567.0  |
| 110°   | 365.2  | 423.9  | 474.1  | 511.7  | 535.4  | 550.3  | 557.8  | 562.7  |





TEST NUMBER: P332630-935

CATALOG NUMBER: S124DIP-S1020D365U935-4F0-1E-UDD-D4

**CANDELA DISTRIBUTION (continued):**

|        | 55°   | 60°   | 65°   | 70°   | 75°   | 80°   | 85°   | 90°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 344.7 | 397.1 | 444.6 | 482.1 | 508.8 | 526.3 | 536.1 | 542.7 |
| 115°   | 322.0 | 365.2 | 406.7 | 439.7 | 465.6 | 485.7 | 497.3 | 501.6 |
| 117.5° | 306.7 | 343.1 | 376.6 | 405.2 | 427.8 | 445.3 | 457.3 | 461.2 |
| 120°   | 298.1 | 331.7 | 361.3 | 386.6 | 406.0 | 421.5 | 431.6 | 437.0 |
| 122.5° | 290.4 | 323.0 | 350.4 | 373.0 | 389.5 | 402.9 | 411.5 | 416.7 |
| 125°   | 278.9 | 310.1 | 336.1 | 356.2 | 370.0 | 380.3 | 387.7 | 391.2 |
| 127.5° | 265.2 | 294.9 | 320.6 | 339.8 | 353.8 | 363.5 | 370.1 | 373.8 |
| 130°   | 255.5 | 284.3 | 309.8 | 329.1 | 343.1 | 352.3 | 358.8 | 362.2 |
| 132.5° | 246.2 | 273.3 | 298.1 | 317.3 | 331.1 | 341.2 | 347.5 | 350.9 |
| 135°   | 231.6 | 255.6 | 278.4 | 296.5 | 310.3 | 320.4 | 326.8 | 330.3 |
| 137.5° | 219.0 | 239.5 | 259.1 | 275.4 | 288.1 | 297.8 | 303.2 | 306.7 |
| 140°   | 211.6 | 229.4 | 246.5 | 261.7 | 273.6 | 281.6 | 287.2 | 291.0 |
| 142.5° | 205.4 | 221.1 | 235.8 | 249.0 | 259.5 | 266.8 | 271.7 | 274.6 |
| 145°   | 197.3 | 209.2 | 220.0 | 229.8 | 238.5 | 244.7 | 248.8 | 251.4 |
| 147.5° | 190.6 | 199.1 | 206.6 | 213.8 | 220.2 | 225.5 | 228.7 | 230.1 |
| 150°   | 187.8 | 194.8 | 200.9 | 206.3 | 211.2 | 215.2 | 217.0 | 217.2 |
| 152.5° | 185.1 | 191.1 | 196.7 | 201.2 | 205.3 | 208.5 | 209.7 | 210.0 |
| 155°   | 181.1 | 185.9 | 190.5 | 194.2 | 197.2 | 199.6 | 200.5 | 200.5 |
| 157.5° | 176.8 | 180.8 | 184.7 | 187.6 | 189.9 | 191.7 | 192.3 | 192.3 |
| 160°   | 174.1 | 177.4 | 180.7 | 183.2 | 185.0 | 186.8 | 187.2 | 187.2 |
| 162.5° | 171.4 | 174.3 | 176.8 | 179.1 | 180.4 | 182.2 | 182.5 | 182.3 |
| 165°   | 167.6 | 169.5 | 171.6 | 173.1 | 174.4 | 175.6 | 175.3 | 175.0 |
| 167.5° | 164.1 | 165.5 | 167.2 | 168.1 | 168.7 | 169.5 | 169.4 | 169.2 |
| 170°   | 161.9 | 162.8 | 164.0 | 165.0 | 165.6 | 165.8 | 165.6 | 165.6 |
| 172.5° | 160.0 | 160.6 | 161.4 | 162.0 | 162.4 | 162.6 | 162.4 | 161.9 |
| 175°   | 157.3 | 157.6 | 158.3 | 158.3 | 158.3 | 158.9 | 158.3 | 157.6 |
| 177.5° | 155.6 | 155.8 | 155.8 | 156.1 | 155.8 | 156.1 | 155.6 | 155.2 |
| 180°   | 154.9 | 154.9 | 154.9 | 154.9 | 154.9 | 154.9 | 154.9 | 154.9 |

(END OF REPORT)