

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: P331347-830

Luminaire Tested: **S122DIP-S675D530U830-4F0-1E-UDD-F4**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P331347-830  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-16,  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: S122DIP-S675D530U830-4F0-1E-UDD-F4  
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 675 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER  
UPLIGHT 530 LUMENS PER FOOT, BATWING OPTIC  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

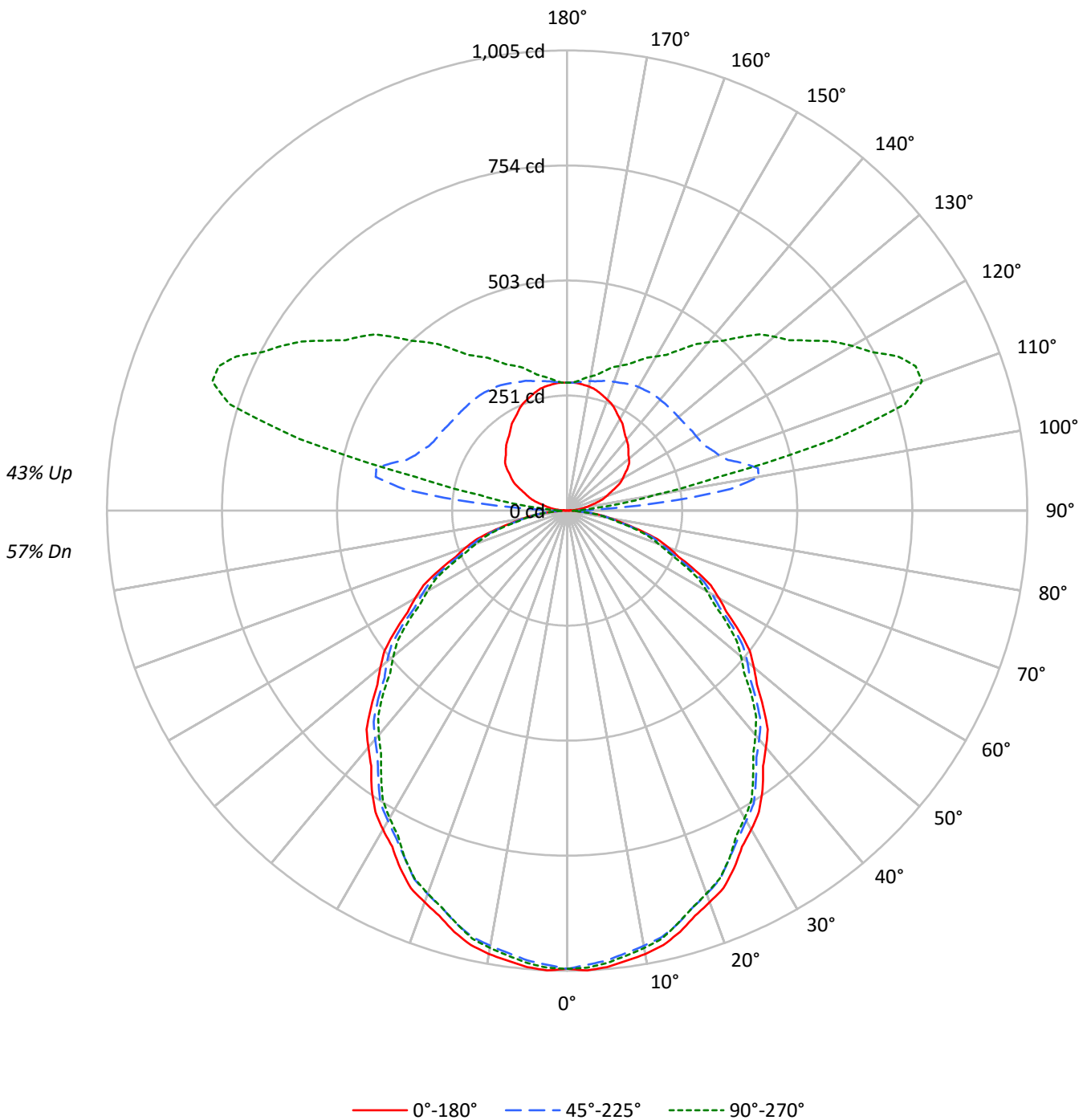
Lumens per Lamp: N/A  
Luminaire Lumens: 4493.4 lumens  
Efficiency: N/A  
Efficacy: 111.5 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.3  
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')  
CIE Type: General Diffuse  
  
Input Watts (W): 40.3  
Input Voltage (V): 120  
Input Current (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: P331347-830

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### Luminous Intensity Polar Plot





TEST NUMBER: P331347-830

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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 | 0  |
| RCR |     |     |     |     |     |     |     |     |    |    |    |    |    |    |    |    |    |    |
| 0   | 109 | 109 | 109 | 109 | 101 | 101 | 101 | 101 | 87 | 87 | 87 | 74 | 74 | 74 | 62 | 62 | 62 | 57 |
| 1   | 99  | 95  | 91  | 87  | 92  | 88  | 85  | 82  | 76 | 74 | 72 | 65 | 63 | 62 | 55 | 54 | 53 | 48 |
| 2   | 90  | 83  | 77  | 71  | 84  | 77  | 72  | 67  | 67 | 63 | 59 | 57 | 54 | 52 | 48 | 46 | 44 | 40 |
| 3   | 82  | 73  | 65  | 60  | 76  | 68  | 62  | 56  | 59 | 54 | 50 | 51 | 47 | 44 | 43 | 40 | 38 | 34 |
| 4   | 75  | 65  | 57  | 50  | 70  | 60  | 53  | 48  | 53 | 47 | 43 | 45 | 41 | 37 | 38 | 35 | 33 | 29 |
| 5   | 69  | 58  | 49  | 43  | 64  | 54  | 47  | 41  | 47 | 41 | 37 | 41 | 36 | 32 | 35 | 31 | 28 | 25 |
| 6   | 64  | 52  | 43  | 38  | 59  | 48  | 41  | 36  | 42 | 36 | 32 | 37 | 32 | 28 | 31 | 28 | 25 | 22 |
| 7   | 59  | 47  | 39  | 33  | 55  | 44  | 37  | 31  | 38 | 33 | 28 | 33 | 29 | 25 | 29 | 25 | 22 | 20 |
| 8   | 55  | 42  | 35  | 29  | 51  | 40  | 33  | 28  | 35 | 29 | 25 | 31 | 26 | 23 | 26 | 23 | 20 | 18 |
| 9   | 51  | 39  | 31  | 26  | 48  | 37  | 30  | 25  | 32 | 27 | 23 | 28 | 24 | 20 | 24 | 21 | 18 | 16 |
| 10  | 48  | 36  | 28  | 23  | 45  | 34  | 27  | 22  | 30 | 24 | 20 | 26 | 22 | 18 | 23 | 19 | 16 | 14 |

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

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 16157 | 16157 | 16157 |
| 5°  | 16219 | 15985 | 16078 |
| 10° | 16123 | 15823 | 15901 |
| 15° | 15921 | 15616 | 15600 |
| 20° | 15639 | 15309 | 15292 |
| 25° | 15358 | 14931 | 14931 |
| 30° | 14997 | 14585 | 14458 |
| 35° | 14661 | 14168 | 13957 |
| 40° | 14235 | 13748 | 13487 |
| 45° | 13819 | 13337 | 13006 |
| 50° | 13366 | 12906 | 12446 |
| 55° | 12892 | 12405 | 11944 |
| 60° | 12368 | 11806 | 11370 |
| 65° | 11801 | 11213 | 10697 |
| 70° | 11084 | 10494 | 9994  |
| 75° | 10081 | 9669  | 9426  |
| 80° | 8945  | 8675  | 8229  |
| 85° | 7317  | 6947  | 6224  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 94.1   | 2.1       |
| 10°-20°   | 264.8  | 5.9       |
| 20°-30°   | 389.2  | 8.7       |
| 30°-40°   | 452.1  | 10.1      |
| 40°-50°   | 451.6  | 10.0      |
| 50°-60°   | 393.8  | 8.8       |
| 60°-70°   | 291.2  | 6.5       |
| 70°-80°   | 164.9  | 3.7       |
| 80°-90°   | 46.9   | 1.0       |
| 90°-100°  | 111.8  | 2.5       |
| 100°-110° | 379.3  | 8.4       |
| 110°-120° | 402.9  | 9.0       |
| 120°-130° | 331.7  | 7.4       |
| 130°-140° | 266.3  | 5.9       |
| 140°-150° | 201.3  | 4.5       |
| 150°-160° | 141.4  | 3.1       |
| 160°-170° | 83.3   | 1.9       |
| 170°-180° | 27.1   | 0.6       |
| 0°-30°    | 748.0  | 16.6      |
| 0°-40°    | 1200.1 | 26.7      |
| 0°-60°    | 2045.4 | 45.5      |
| 0°-90°    | 2548.4 | 56.7      |
| 90°-120°  | 893.9  | 19.9      |
| 90°-150°  | 1693.2 | 37.7      |
| 90°-180°  | 1945.0 | 43.3      |
| 0°-180°   | 4493.4 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 1001 | 1001  | 1001 | 1001  | 1001 |      |
| 5°   | 1001 | 996   | 986  | 993   | 992  | 95   |
| 15°  | 952  | 946   | 934  | 938   | 933  | 268  |
| 25°  | 862  | 854   | 838  | 840   | 838  | 396  |
| 35°  | 744  | 734   | 719  | 713   | 708  | 464  |
| 45°  | 605  | 598   | 584  | 574   | 570  | 467  |
| 55°  | 458  | 452   | 441  | 430   | 424  | 409  |
| 65°  | 309  | 303   | 294  | 285   | 280  | 305  |
| 75°  | 162  | 160   | 155  | 150   | 151  | 173  |
| 85°  | 40   | 38    | 38   | 35    | 34   | 45   |
| 90°  | 1    | 7     | 18   | 17    | 18   | 3    |
| 95°  | 19   | 46    | 211  | 80    | 61   | 20   |
| 105° | 66   | 99    | 398  | 712   | 606  | 70   |
| 115° | 116  | 146   | 333  | 688   | 797  | 115  |
| 125° | 161  | 191   | 320  | 557   | 647  | 143  |
| 135° | 189  | 226   | 317  | 468   | 536  | 146  |
| 145° | 216  | 248   | 315  | 391   | 428  | 136  |
| 155° | 246  | 265   | 306  | 346   | 360  | 113  |
| 165° | 268  | 276   | 293  | 311   | 316  | 75   |
| 175° | 279  | 279   | 282  | 285   | 284  | 26   |
| 180° | 280  | 280   | 280  | 280   | 280  |      |



TEST NUMBER: P331347-830

CATALOG NUMBER: S122DIP-S675D530U830-4F0-1E-UDD-F4

**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1000.7 | 1000.7 | 1000.7 | 1000.7 | 1000.7 | 1000.7 | 1000.7 | 1000.7 | 1000.7 | 1000.7 | 1000.7 |
| 2.5°   | 1005.3 | 1004.5 | 1003.6 | 1002.8 | 1001.9 | 1000.5 | 998.6  | 996.7  | 994.9  | 993.0  | 994.7  |
| 5°     | 1000.7 | 999.8  | 999.0  | 998.2  | 997.3  | 995.7  | 993.3  | 991.0  | 988.6  | 986.3  | 988.0  |
| 7.5°   | 991.8  | 990.5  | 989.2  | 987.9  | 986.6  | 984.7  | 982.3  | 979.9  | 977.5  | 975.1  | 976.8  |
| 10°    | 983.4  | 981.8  | 980.3  | 978.8  | 977.4  | 975.3  | 972.8  | 970.3  | 967.6  | 965.1  | 966.8  |
| 12.5°  | 971.9  | 970.5  | 969.1  | 967.8  | 966.5  | 964.6  | 962.0  | 959.4  | 956.9  | 954.3  | 955.5  |
| 15°    | 952.5  | 951.3  | 950.0  | 948.8  | 947.4  | 945.4  | 942.6  | 939.8  | 937.1  | 934.2  | 935.2  |
| 17.5°  | 927.9  | 926.6  | 925.4  | 924.1  | 922.8  | 920.8  | 917.9  | 915.1  | 912.3  | 909.5  | 910.5  |
| 20°    | 910.2  | 909.0  | 907.7  | 906.3  | 905.1  | 903.0  | 899.9  | 897.0  | 894.0  | 891.0  | 891.6  |
| 22.5°  | 892.5  | 890.7  | 888.9  | 887.1  | 885.3  | 883.1  | 880.2  | 877.4  | 874.6  | 871.8  | 871.9  |
| 25°    | 862.1  | 860.4  | 858.8  | 857.0  | 855.3  | 852.6  | 848.9  | 845.4  | 841.7  | 838.1  | 838.5  |
| 27.5°  | 827.5  | 826.0  | 824.4  | 822.8  | 821.3  | 819.2  | 816.2  | 813.4  | 810.5  | 807.7  | 807.0  |
| 30°    | 804.4  | 802.7  | 801.0  | 799.3  | 797.6  | 795.1  | 791.9  | 788.7  | 785.5  | 782.3  | 781.7  |
| 32.5°  | 779.8  | 778.4  | 777.0  | 775.6  | 774.3  | 771.9  | 768.5  | 765.2  | 761.8  | 758.4  | 757.2  |
| 35°    | 743.8  | 741.7  | 739.5  | 737.4  | 735.2  | 732.4  | 729.1  | 725.6  | 722.2  | 718.8  | 717.5  |
| 37.5°  | 703.1  | 701.3  | 699.4  | 697.5  | 695.7  | 693.0  | 689.6  | 686.2  | 682.8  | 679.3  | 677.7  |
| 40°    | 675.4  | 673.7  | 672.0  | 670.3  | 668.6  | 666.1  | 662.6  | 659.2  | 655.8  | 652.3  | 650.4  |
| 42.5°  | 648.6  | 646.8  | 645.1  | 643.4  | 641.7  | 639.1  | 635.7  | 632.3  | 628.9  | 625.5  | 623.3  |
| 45°    | 605.2  | 603.7  | 602.2  | 600.8  | 599.3  | 596.9  | 593.7  | 590.5  | 587.3  | 584.1  | 581.7  |
| 47.5°  | 562.1  | 560.7  | 559.3  | 557.9  | 556.5  | 554.1  | 550.7  | 547.4  | 544.1  | 540.7  | 538.3  |
| 50°    | 532.1  | 531.0  | 530.0  | 528.9  | 527.8  | 525.8  | 522.8  | 519.8  | 516.8  | 513.8  | 510.9  |
| 52.5°  | 502.8  | 501.4  | 500.0  | 498.6  | 497.2  | 495.1  | 492.3  | 489.5  | 486.6  | 483.8  | 481.4  |
| 55°    | 458.0  | 456.8  | 455.4  | 454.1  | 452.9  | 450.9  | 448.4  | 445.8  | 443.3  | 440.7  | 438.1  |
| 57.5°  | 412.9  | 412.0  | 410.9  | 409.9  | 408.9  | 407.0  | 404.2  | 401.3  | 398.5  | 395.7  | 393.1  |
| 60°    | 383.0  | 382.1  | 381.3  | 380.4  | 379.6  | 377.6  | 374.7  | 371.6  | 368.6  | 365.6  | 363.3  |
| 62.5°  | 353.7  | 352.3  | 351.0  | 349.6  | 348.3  | 346.4  | 344.1  | 341.8  | 339.5  | 337.1  | 335.0  |
| 65°    | 308.9  | 307.6  | 306.3  | 305.0  | 303.7  | 302.0  | 299.9  | 297.7  | 295.6  | 293.5  | 291.5  |
| 67.5°  | 263.3  | 262.2  | 261.2  | 260.1  | 259.1  | 257.7  | 255.7  | 253.8  | 251.9  | 250.0  | 248.5  |
| 70°    | 234.8  | 233.9  | 233.1  | 232.2  | 231.4  | 230.0  | 228.0  | 226.1  | 224.2  | 222.3  | 220.7  |
| 72.5°  | 205.6  | 204.6  | 203.8  | 202.9  | 202.1  | 201.0  | 199.8  | 198.6  | 197.4  | 196.0  | 194.6  |
| 75°    | 161.6  | 161.2  | 160.8  | 160.3  | 159.9  | 159.2  | 158.2  | 157.0  | 156.0  | 155.0  | 153.6  |
| 77.5°  | 122.4  | 121.7  | 120.9  | 120.2  | 119.5  | 118.9  | 118.5  | 118.0  | 117.6  | 117.2  | 116.6  |
| 80°    | 96.2   | 96.0   | 95.8   | 95.6   | 95.4   | 95.0   | 94.6   | 94.2   | 93.8   | 93.3   | 92.7   |
| 82.5°  | 71.6   | 71.5   | 71.5   | 71.4   | 71.4   | 71.3   | 71.0   | 70.8   | 70.5   | 70.2   | 69.5   |
| 85°    | 39.5   | 39.2   | 39.0   | 38.8   | 38.5   | 38.4   | 38.2   | 38.0   | 37.7   | 37.5   | 36.9   |
| 87.5°  | 13.9   | 13.9   | 14.0   | 13.9   | 13.8   | 13.8   | 13.9   | 14.3   | 14.7   | 14.4   | 13.9   |
| 90°    | 0.6    | 2.2    | 4.3    | 5.4    | 6.4    | 8.1    | 10.7   | 14.5   | 17.7   | 18.3   | 17.7   |
| 92.5°  | 6.6    | 9.4    | 13.3   | 15.7   | 19.3   | 24.4   | 36.6   | 53.6   | 68.9   | 69.8   | 59.0   |
| 95°    | 18.9   | 20.9   | 26.3   | 31.2   | 39.8   | 52.7   | 77.4   | 124.1  | 186.5  | 210.8  | 184.4  |
| 97.5°  | 30.6   | 33.6   | 39.2   | 46.6   | 56.5   | 71.1   | 102.2  | 167.3  | 270.9  | 359.7  | 377.3  |
| 100°   | 41.4   | 43.0   | 47.9   | 56.5   | 67.2   | 82.3   | 110.7  | 176.3  | 292.4  | 424.6  | 502.0  |
| 102.5° | 51.3   | 52.5   | 57.3   | 65.9   | 77.1   | 92.1   | 118.5  | 176.7  | 284.3  | 426.8  | 548.5  |
| 105°   | 65.6   | 67.8   | 71.4   | 79.6   | 91.3   | 106.4  | 131.7  | 179.6  | 268.2  | 398.3  | 541.3  |
| 107.5° | 81.1   | 82.8   | 86.4   | 93.9   | 105.6  | 120.7  | 145.2  | 186.9  | 260.2  | 367.8  | 494.1  |
| 110°   | 91.3   | 93.5   | 96.8   | 103.8  | 115.0  | 130.6  | 154.3  | 192.9  | 258.5  | 353.2  | 464.4  |



TEST NUMBER: P331347-830

CATALOG NUMBER: S122DIP-S675D530U830-4F0-1E-UDD-F4

**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 5°    | 10°   | 15°   | 20°   | 25°   | 30°   | 35°   | 40°   | 45°   | 50°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 100.9 | 103.0 | 106.6 | 113.2 | 124.0 | 140.1 | 162.9 | 199.4 | 259.0 | 343.7 | 443.7 |
| 115°   | 115.6 | 118.3 | 121.5 | 127.9 | 138.6 | 153.2 | 176.3 | 209.1 | 261.3 | 333.3 | 418.2 |
| 117.5° | 130.8 | 133.0 | 136.2 | 141.9 | 152.2 | 167.3 | 188.7 | 219.4 | 265.1 | 328.2 | 402.1 |
| 120°   | 140.3 | 142.4 | 145.6 | 150.5 | 161.3 | 176.3 | 197.3 | 226.3 | 267.7 | 325.2 | 393.5 |
| 122.5° | 149.3 | 151.1 | 154.3 | 159.6 | 170.3 | 185.8 | 205.5 | 232.3 | 270.7 | 323.5 | 386.2 |
| 125°   | 161.3 | 162.9 | 166.1 | 172.6 | 183.3 | 198.3 | 217.7 | 241.9 | 275.2 | 320.4 | 375.7 |
| 127.5° | 170.7 | 172.9 | 177.4 | 184.5 | 194.8 | 210.3 | 229.1 | 250.8 | 279.8 | 318.6 | 366.1 |
| 130°   | 176.3 | 178.4 | 183.8 | 191.3 | 202.1 | 217.2 | 236.0 | 256.4 | 283.2 | 317.6 | 359.6 |
| 132.5° | 181.4 | 184.1 | 189.8 | 197.8 | 209.0 | 224.0 | 242.0 | 262.0 | 286.7 | 317.3 | 354.4 |
| 135°   | 189.2 | 191.3 | 197.8 | 205.9 | 218.2 | 233.3 | 250.5 | 269.3 | 290.8 | 316.6 | 347.2 |
| 137.5° | 196.5 | 199.1 | 205.6 | 214.1 | 226.4 | 240.3 | 257.4 | 274.8 | 294.5 | 316.5 | 342.1 |
| 140°   | 202.1 | 204.2 | 210.8 | 219.3 | 231.1 | 245.2 | 261.3 | 277.9 | 296.1 | 316.0 | 339.2 |
| 142.5° | 207.7 | 209.4 | 215.5 | 224.0 | 235.4 | 248.5 | 264.3 | 280.5 | 297.5 | 316.0 | 336.2 |
| 145°   | 216.1 | 218.2 | 223.6 | 231.7 | 242.4 | 254.2 | 268.7 | 283.8 | 298.9 | 315.0 | 332.2 |
| 147.5° | 225.1 | 226.7 | 231.9 | 239.3 | 248.3 | 258.7 | 272.4 | 285.7 | 299.3 | 313.0 | 328.1 |
| 150°   | 231.1 | 232.7 | 237.0 | 244.0 | 252.1 | 261.7 | 274.1 | 286.5 | 298.9 | 311.8 | 324.7 |
| 152.5° | 237.1 | 237.9 | 242.2 | 248.4 | 256.0 | 264.8 | 275.9 | 286.9 | 298.0 | 309.6 | 321.7 |
| 155°   | 245.6 | 246.2 | 249.4 | 255.3 | 261.3 | 269.3 | 278.4 | 287.6 | 296.7 | 305.9 | 316.0 |
| 157.5° | 252.7 | 253.3 | 255.9 | 261.0 | 265.8 | 272.5 | 280.2 | 287.6 | 294.3 | 302.0 | 310.8 |
| 160°   | 257.5 | 258.0 | 260.1 | 264.5 | 268.7 | 274.7 | 281.2 | 287.6 | 292.9 | 299.4 | 306.9 |
| 162.5° | 262.2 | 261.8 | 264.0 | 267.5 | 271.4 | 276.0 | 281.5 | 287.1 | 291.6 | 297.3 | 303.5 |
| 165°   | 267.7 | 267.1 | 268.2 | 271.5 | 274.1 | 277.4 | 282.2 | 286.0 | 289.2 | 292.9 | 297.7 |
| 167.5° | 272.2 | 271.5 | 272.5 | 274.6 | 276.5 | 278.5 | 282.1 | 285.2 | 286.7 | 289.2 | 292.2 |
| 170°   | 275.2 | 274.1 | 274.7 | 276.3 | 277.4 | 279.0 | 281.6 | 284.4 | 285.4 | 287.0 | 289.2 |
| 172.5° | 276.9 | 276.3 | 276.0 | 277.6 | 278.2 | 279.4 | 281.3 | 283.0 | 283.7 | 284.5 | 286.2 |
| 175°   | 279.0 | 278.4 | 277.9 | 279.0 | 279.0 | 279.5 | 280.6 | 281.6 | 281.2 | 281.6 | 282.2 |
| 177.5° | 279.9 | 279.1 | 278.6 | 279.5 | 279.5 | 279.5 | 279.9 | 280.8 | 279.9 | 279.5 | 279.9 |
| 180°   | 279.5 | 279.5 | 279.5 | 279.5 | 279.5 | 279.5 | 279.5 | 279.5 | 279.5 | 279.5 | 279.5 |



TEST NUMBER: P331347-830

CATALOG NUMBER: S122DIP-S675D530U830-4F0-1E-UDD-F4

**CANDELA DISTRIBUTION (continued):**

|        | 55°    | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1000.7 | 1000.7 | 1000.7 | 1000.7 | 1000.7 | 1000.7 | 1000.7 | 1000.7 |
| 2.5°   | 996.4  | 998.2  | 999.8  | 1000.5 | 1000.1 | 999.8  | 999.5  | 999.2  |
| 5°     | 989.7  | 991.4  | 993.1  | 993.7  | 993.3  | 992.9  | 992.5  | 992.0  |
| 7.5°   | 978.5  | 980.2  | 981.9  | 982.5  | 982.0  | 981.7  | 981.2  | 980.7  |
| 10°    | 968.5  | 970.3  | 971.9  | 972.4  | 971.9  | 971.2  | 970.5  | 969.9  |
| 12.5°  | 956.7  | 957.9  | 959.1  | 959.4  | 958.9  | 958.6  | 958.1  | 957.6  |
| 15°    | 936.0  | 936.9  | 937.7  | 937.6  | 936.5  | 935.5  | 934.4  | 933.3  |
| 17.5°  | 911.4  | 912.4  | 913.4  | 913.4  | 912.4  | 911.3  | 910.3  | 909.3  |
| 20°    | 892.3  | 893.0  | 893.5  | 893.4  | 892.6  | 891.7  | 890.9  | 890.0  |
| 22.5°  | 872.0  | 872.1  | 872.2  | 872.0  | 871.6  | 871.0  | 870.5  | 870.1  |
| 25°    | 839.0  | 839.3  | 839.8  | 839.8  | 839.3  | 839.0  | 838.5  | 838.1  |
| 27.5°  | 806.3  | 805.8  | 805.1  | 804.3  | 803.2  | 802.2  | 801.2  | 800.1  |
| 30°    | 781.0  | 780.3  | 779.7  | 778.9  | 778.1  | 777.2  | 776.4  | 775.5  |
| 32.5°  | 756.1  | 755.0  | 753.8  | 752.8  | 752.0  | 751.1  | 750.2  | 749.3  |
| 35°    | 716.2  | 714.9  | 713.6  | 712.5  | 711.4  | 710.3  | 709.3  | 708.1  |
| 37.5°  | 676.2  | 674.6  | 673.0  | 671.7  | 670.6  | 669.6  | 668.6  | 667.6  |
| 40°    | 648.6  | 646.6  | 644.7  | 643.3  | 642.4  | 641.6  | 640.7  | 639.9  |
| 42.5°  | 621.2  | 619.2  | 617.1  | 615.4  | 614.2  | 613.0  | 611.8  | 610.6  |
| 45°    | 579.4  | 577.0  | 574.7  | 573.1  | 572.2  | 571.4  | 570.5  | 569.6  |
| 47.5°  | 535.8  | 533.3  | 530.8  | 529.0  | 527.7  | 526.5  | 525.3  | 524.1  |
| 50°    | 507.8  | 504.8  | 501.8  | 499.8  | 498.7  | 497.7  | 496.6  | 495.5  |
| 52.5°  | 478.8  | 476.4  | 473.9  | 471.9  | 470.5  | 469.1  | 467.7  | 466.3  |
| 55°    | 435.5  | 433.0  | 430.5  | 428.6  | 427.5  | 426.5  | 425.4  | 424.3  |
| 57.5°  | 390.6  | 388.0  | 385.6  | 383.9  | 383.0  | 382.3  | 381.4  | 380.6  |
| 60°    | 360.9  | 358.5  | 356.2  | 354.8  | 354.1  | 353.5  | 352.8  | 352.1  |
| 62.5°  | 332.8  | 330.6  | 328.5  | 327.0  | 326.1  | 325.3  | 324.5  | 323.7  |
| 65°    | 289.6  | 287.7  | 285.8  | 284.3  | 283.2  | 282.1  | 281.1  | 280.0  |
| 67.5°  | 246.9  | 245.5  | 244.0  | 242.8  | 242.0  | 241.1  | 240.3  | 239.4  |
| 70°    | 219.2  | 217.8  | 216.3  | 215.1  | 214.2  | 213.4  | 212.5  | 211.7  |
| 72.5°  | 193.1  | 191.6  | 190.1  | 189.0  | 188.3  | 187.7  | 187.0  | 186.2  |
| 75°    | 152.3  | 151.1  | 149.8  | 149.4  | 149.8  | 150.2  | 150.6  | 151.1  |
| 77.5°  | 115.9  | 115.3  | 114.6  | 114.0  | 113.4  | 112.8  | 112.3  | 111.6  |
| 80°    | 92.1   | 91.4   | 90.8   | 90.2   | 89.8   | 89.4   | 89.0   | 88.5   |
| 82.5°  | 68.6   | 67.8   | 67.0   | 66.5   | 66.4   | 66.4   | 66.3   | 66.2   |
| 85°    | 36.3   | 35.6   | 35.0   | 34.5   | 34.3   | 34.1   | 33.9   | 33.6   |
| 87.5°  | 13.2   | 12.4   | 12.2   | 12.0   | 11.8   | 11.6   | 11.4   | 11.2   |
| 90°    | 17.2   | 16.1   | 17.2   | 17.7   | 17.7   | 17.7   | 17.7   | 17.7   |
| 92.5°  | 46.8   | 40.2   | 35.7   | 32.3   | 32.0   | 30.3   | 30.6   | 29.8   |
| 95°    | 140.8  | 108.0  | 85.5   | 73.6   | 66.6   | 62.4   | 60.7   | 61.3   |
| 97.5°  | 328.7  | 268.9  | 210.8  | 171.9  | 146.2  | 133.0  | 125.2  | 120.6  |
| 100°   | 490.8  | 424.1  | 350.4  | 285.4  | 240.8  | 217.7  | 202.1  | 192.5  |
| 102.5° | 597.0  | 581.9  | 528.1  | 459.1  | 410.7  | 371.2  | 351.8  | 338.7  |
| 105°   | 653.1  | 713.8  | 720.9  | 703.0  | 669.8  | 636.4  | 613.3  | 605.8  |
| 107.5° | 612.7  | 704.2  | 760.1  | 786.1  | 790.2  | 788.4  | 783.8  | 773.8  |
| 110°   | 577.9  | 674.0  | 742.8  | 786.9  | 810.0  | 820.3  | 825.1  | 824.5  |





TEST NUMBER: P331347-830

CATALOG NUMBER: S122DIP-S675D530U830-4F0-1E-UDD-F4

**CANDELA DISTRIBUTION (continued):**

|        | 55°   | 60°   | 65°   | 70°   | 75°   | 80°   | 85°   | 90°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 546.0 | 638.4 | 711.9 | 762.4 | 794.6 | 811.6 | 820.8 | 823.7 |
| 115°   | 506.9 | 589.7 | 660.1 | 715.5 | 753.6 | 778.4 | 792.3 | 797.1 |
| 117.5° | 477.4 | 550.1 | 614.0 | 665.9 | 704.8 | 730.9 | 745.6 | 749.7 |
| 120°   | 462.8 | 529.4 | 586.4 | 635.4 | 673.0 | 698.2 | 713.8 | 719.2 |
| 122.5° | 451.2 | 512.3 | 566.2 | 610.4 | 644.1 | 669.0 | 682.9 | 687.4 |
| 125°   | 434.3 | 489.7 | 537.0 | 577.3 | 608.5 | 628.9 | 642.3 | 646.7 |
| 127.5° | 417.6 | 467.8 | 512.4 | 549.6 | 576.7 | 595.9 | 607.5 | 611.0 |
| 130°   | 406.9 | 453.2 | 495.6 | 531.0 | 557.4 | 575.7 | 586.4 | 590.7 |
| 132.5° | 396.6 | 439.4 | 478.4 | 511.7 | 537.6 | 555.9 | 565.8 | 569.7 |
| 135°   | 382.2 | 417.6 | 453.2 | 483.2 | 506.3 | 524.1 | 533.8 | 535.9 |
| 137.5° | 370.7 | 400.4 | 428.5 | 454.8 | 475.8 | 491.1 | 499.5 | 502.8 |
| 140°   | 363.4 | 389.2 | 413.9 | 437.5 | 454.8 | 468.7 | 476.7 | 480.0 |
| 142.5° | 357.3 | 379.3 | 400.6 | 420.4 | 436.7 | 449.4 | 456.6 | 457.2 |
| 145°   | 348.8 | 366.6 | 383.2 | 398.9 | 411.7 | 420.8 | 426.2 | 427.8 |
| 147.5° | 342.3 | 356.3 | 369.3 | 380.7 | 391.3 | 398.6 | 402.3 | 403.2 |
| 150°   | 337.5 | 349.4 | 360.7 | 370.3 | 378.4 | 384.8 | 388.0 | 388.6 |
| 152.5° | 332.8 | 343.8 | 353.4 | 361.7 | 368.1 | 373.7 | 376.1 | 376.2 |
| 155°   | 326.3 | 334.9 | 342.9 | 348.8 | 354.8 | 358.5 | 360.7 | 359.6 |
| 157.5° | 318.7 | 325.8 | 332.6 | 337.2 | 341.4 | 344.6 | 345.5 | 345.5 |
| 160°   | 313.9 | 319.8 | 325.7 | 329.5 | 333.3 | 335.9 | 336.5 | 336.5 |
| 162.5° | 309.2 | 314.2 | 319.3 | 322.2 | 325.9 | 327.8 | 328.3 | 327.9 |
| 165°   | 302.1 | 305.9 | 309.6 | 311.8 | 313.9 | 316.0 | 316.0 | 315.6 |
| 167.5° | 295.3 | 298.2 | 300.8 | 302.7 | 303.7 | 304.9 | 304.8 | 304.2 |
| 170°   | 291.9 | 293.5 | 295.7 | 296.7 | 297.3 | 298.9 | 298.3 | 297.3 |
| 172.5° | 288.0 | 289.2 | 290.9 | 291.5 | 292.1 | 292.8 | 292.3 | 291.6 |
| 175°   | 283.8 | 284.4 | 284.9 | 285.4 | 285.4 | 286.0 | 285.4 | 284.4 |
| 177.5° | 280.8 | 280.8 | 281.3 | 281.3 | 281.3 | 281.3 | 280.8 | 279.9 |
| 180°   | 279.5 | 279.5 | 279.5 | 279.5 | 279.5 | 279.5 | 279.5 | 279.5 |

(END OF REPORT)