

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: P331363-830

Luminaire Tested: **SA2XXDIP-C675D925U830-4F0-1E-UDD-F**

Issue Date: 10/7/2019

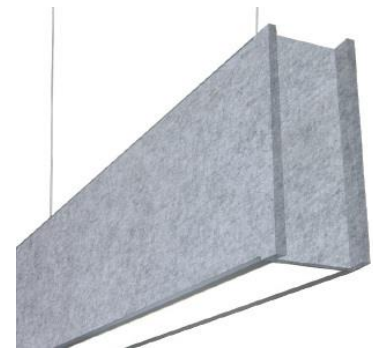
**Test Information**

Test Method: LM-79-08  
Report Number: P331363-830  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-2,  
Test Lab: INNOVATION CENTER  
Issue Date: 10/7/2019  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: SA2XXDIP-C675D925U830-4F0-1E-UDD-F  
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 675 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER  
UPLIGHT 925 LUMENS PER FOOT, NO LENS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6035.1 lumens  
Efficiency: N/A  
Efficacy: 116.1 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

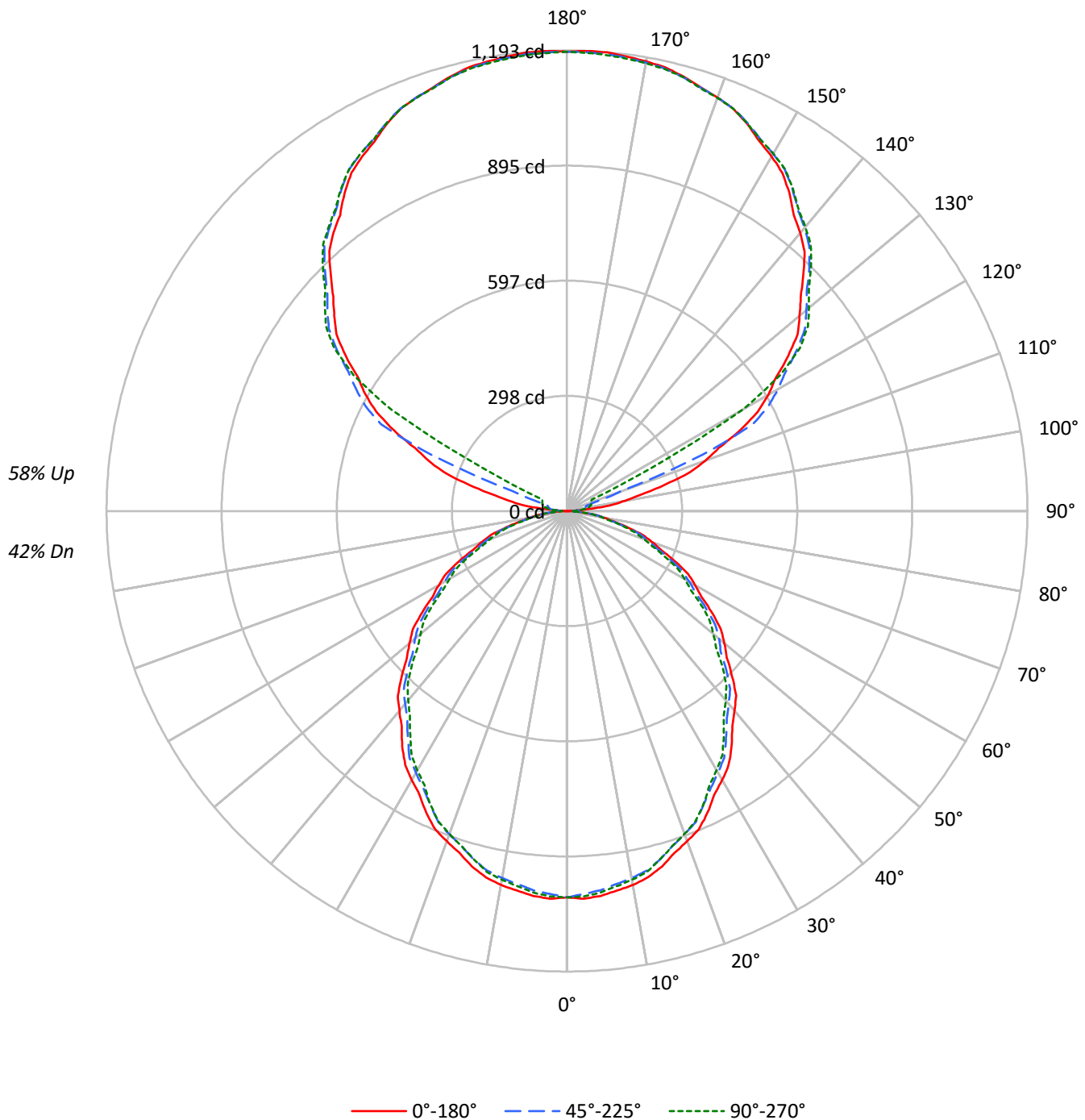
Input Watts (W): 52  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P331363-830

CATALOG NUMBER: SA2XXDIP-C675D925U830-4F0-1E-UDD-F

### Luminous Intensity Polar Plot





TEST NUMBER: P331363-830

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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

|     |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |
|-----|-----|-----|-----|-----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| RF  | 20  |     |     |     | 20 |    |    |    | 20 |    |    |    | 20 |    |    |    | 20 |
| RC  | 80  |     |     |     | 70 |    |    |    | 50 |    |    |    | 30 |    |    |    | 0  |
| RW  | 70  | 50  | 30  | 10  | 70 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 |
| RCR |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 0   | 105 | 105 | 105 | 105 | 96 | 96 | 96 | 96 | 79 | 79 | 79 | 63 | 63 | 63 | 49 | 49 | 49 |
| 1   | 96  | 92  | 88  | 84  | 88 | 84 | 81 | 78 | 69 | 67 | 65 | 56 | 54 | 53 | 43 | 42 | 41 |
| 2   | 87  | 80  | 74  | 69  | 80 | 73 | 68 | 64 | 61 | 57 | 54 | 49 | 46 | 44 | 38 | 36 | 35 |
| 3   | 80  | 70  | 63  | 57  | 73 | 65 | 58 | 53 | 53 | 49 | 45 | 43 | 40 | 37 | 34 | 32 | 30 |
| 4   | 73  | 62  | 54  | 48  | 66 | 57 | 50 | 45 | 47 | 42 | 38 | 39 | 35 | 32 | 30 | 28 | 26 |
| 5   | 67  | 55  | 47  | 41  | 61 | 51 | 44 | 39 | 42 | 37 | 33 | 35 | 31 | 28 | 27 | 24 | 22 |
| 6   | 62  | 50  | 42  | 36  | 56 | 46 | 39 | 34 | 38 | 33 | 29 | 31 | 27 | 24 | 25 | 22 | 20 |
| 7   | 57  | 45  | 37  | 31  | 52 | 41 | 34 | 29 | 35 | 29 | 25 | 28 | 24 | 21 | 22 | 20 | 17 |
| 8   | 53  | 41  | 33  | 28  | 48 | 37 | 31 | 26 | 32 | 26 | 22 | 26 | 22 | 19 | 21 | 18 | 16 |
| 9   | 49  | 37  | 30  | 25  | 45 | 34 | 28 | 23 | 29 | 24 | 20 | 24 | 20 | 17 | 19 | 16 | 14 |
| 10  | 46  | 34  | 27  | 22  | 42 | 31 | 25 | 21 | 27 | 22 | 18 | 22 | 18 | 15 | 18 | 15 | 13 |

**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   | 1.6       |
| 10°-20°   | 264.8  | 4.4       |
| 20°-30°   | 389.2  | 6.4       |
| 30°-40°   | 452.1  | 7.5       |
| 40°-50°   | 451.6  | 7.5       |
| 50°-60°   | 393.8  | 6.5       |
| 60°-70°   | 291.2  | 4.8       |
| 70°-80°   | 164.9  | 2.7       |
| 80°-90°   | 47.3   | 0.8       |
| 90°-100°  | 39.7   | 0.7       |
| 100°-110° | 145.5  | 2.4       |
| 110°-120° | 389.0  | 6.4       |
| 120°-130° | 642.1  | 10.6      |
| 130°-140° | 682.9  | 11.3      |
| 140°-150° | 634.7  | 10.5      |
| 150°-160° | 510.3  | 8.5       |
| 160°-170° | 328.8  | 5.4       |
| 170°-180° | 113.2  | 1.9       |
| 0°-30°    | 748.0  | 12.4      |
| 0°-40°    | 1200.1 | 19.9      |
| 0°-60°    | 2045.4 | 33.9      |
| 0°-90°    | 2548.8 | 42.2      |
| 90°-120°  | 574.2  | 9.5       |
| 90°-150°  | 2533.9 | 42.0      |
| 90°-180°  | 3486.0 | 57.8      |
| 0°-180°   | 6035.1 | 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    | 10    | 17   | 21    | 23   | 5    |
| 95°  | 56   | 29    | 34   | 38    | 37   | 68   |
| 105° | 262  | 273   | 52   | 62    | 65   | 280  |
| 115° | 495  | 510   | 531  | 151   | 71   | 487  |
| 125° | 700  | 711   | 727  | 733   | 736  | 624  |
| 135° | 866  | 879   | 888  | 896   | 894  | 669  |
| 145° | 1005 | 1005  | 1018 | 1024  | 1020 | 628  |
| 155° | 1106 | 1099  | 1109 | 1113  | 1107 | 509  |
| 165° | 1166 | 1161  | 1163 | 1168  | 1163 | 329  |
| 175° | 1192 | 1187  | 1188 | 1193  | 1185 | 113  |
| 180° | 1190 | 1190  | 1190 | 1190  | 1190 |      |



TEST NUMBER: P331363-830

CATALOG NUMBER: SA2XXDIP-C675D925U830-4F0-1E-UDD-F

**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°  | 14.0   | 14.1   | 14.1   | 14.2   | 14.3   | 14.3   | 14.3   | 14.3   | 14.2   | 14.2   | 13.9   |
| 90°    | 0.8    | 2.9    | 5.1    | 7.2    | 9.2    | 11.1   | 12.6   | 14.1   | 15.6   | 17.2   | 18.2   |
| 92.5°  | 17.3   | 17.2   | 17.0   | 16.8   | 16.6   | 16.9   | 17.7   | 18.5   | 19.2   | 20.0   | 20.5   |
| 95°    | 56.0   | 49.7   | 43.4   | 37.0   | 30.7   | 28.2   | 29.6   | 30.9   | 32.2   | 33.6   | 34.5   |
| 97.5°  | 111.0  | 93.2   | 75.5   | 57.7   | 39.9   | 32.5   | 35.6   | 38.7   | 41.8   | 45.0   | 45.7   |
| 100°   | 152.4  | 126.1  | 99.9   | 73.7   | 47.5   | 36.1   | 39.3   | 42.6   | 45.8   | 49.1   | 50.6   |
| 102.5° | 197.8  | 192.3  | 186.7  | 181.2  | 175.6  | 159.3  | 132.1  | 104.8  | 77.7   | 50.4   | 52.4   |
| 105°   | 261.6  | 267.4  | 273.1  | 278.9  | 284.6  | 261.4  | 209.2  | 156.9  | 104.7  | 52.5   | 54.6   |
| 107.5° | 334.5  | 339.1  | 343.7  | 348.4  | 353.1  | 324.0  | 261.4  | 198.8  | 136.1  | 73.5   | 71.4   |
| 110°   | 381.4  | 385.4  | 389.4  | 393.4  | 397.4  | 371.7  | 316.5  | 261.2  | 205.9  | 150.6  | 131.5  |

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**CANDELA DISTRIBUTION (continued):**

|        | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 425.4  | 429.0  | 432.5  | 436.1  | 439.6  | 434.6  | 420.9  | 407.3  | 393.6  | 379.9  | 310.2  |
| 115°   | 494.9  | 498.2  | 501.4  | 504.7  | 507.9  | 512.0  | 516.8  | 521.6  | 526.3  | 531.1  | 442.5  |
| 117.5° | 557.1  | 560.7  | 564.4  | 568.1  | 571.7  | 575.1  | 578.4  | 581.7  | 585.0  | 588.2  | 566.8  |
| 120°   | 602.6  | 605.4  | 608.3  | 611.1  | 614.1  | 617.2  | 620.7  | 624.1  | 627.5  | 630.9  | 633.3  |
| 122.5° | 641.1  | 644.1  | 647.1  | 650.2  | 653.2  | 656.6  | 660.3  | 664.1  | 667.9  | 671.7  | 673.0  |
| 125°   | 699.8  | 702.3  | 704.8  | 707.3  | 709.8  | 712.8  | 716.5  | 720.1  | 723.8  | 727.4  | 728.8  |
| 127.5° | 753.0  | 755.8  | 758.6  | 761.3  | 764.0  | 766.8  | 769.5  | 772.2  | 775.0  | 777.7  | 779.6  |
| 130°   | 786.8  | 789.9  | 792.9  | 796.0  | 799.0  | 801.6  | 803.7  | 805.8  | 807.9  | 810.0  | 812.1  |
| 132.5° | 821.2  | 823.8  | 826.4  | 829.1  | 831.6  | 834.0  | 836.1  | 838.2  | 840.3  | 842.4  | 844.2  |
| 135°   | 866.0  | 869.0  | 872.1  | 875.2  | 878.3  | 880.6  | 882.3  | 884.1  | 885.8  | 887.5  | 889.4  |
| 137.5° | 911.3  | 913.4  | 915.6  | 917.7  | 919.8  | 921.9  | 923.8  | 925.8  | 927.7  | 929.7  | 931.5  |
| 140°   | 940.8  | 942.4  | 944.0  | 945.5  | 947.0  | 948.9  | 950.9  | 953.0  | 955.2  | 957.2  | 958.9  |
| 142.5° | 965.6  | 967.0  | 968.5  | 969.8  | 971.2  | 973.1  | 975.4  | 977.9  | 980.3  | 982.7  | 984.3  |
| 145°   | 1004.6 | 1004.4 | 1004.2 | 1004.0 | 1003.8 | 1005.3 | 1008.6 | 1011.8 | 1015.1 | 1018.3 | 1019.6 |
| 147.5° | 1038.5 | 1037.7 | 1037.1 | 1036.3 | 1035.6 | 1036.8 | 1040.0 | 1043.3 | 1046.5 | 1049.7 | 1050.7 |
| 150°   | 1060.5 | 1059.2 | 1057.8 | 1056.5 | 1055.2 | 1056.0 | 1059.1 | 1062.2 | 1065.3 | 1068.3 | 1069.4 |
| 152.5° | 1079.1 | 1077.6 | 1076.1 | 1074.7 | 1073.2 | 1073.8 | 1076.8 | 1079.7 | 1082.6 | 1085.5 | 1086.7 |
| 155°   | 1106.2 | 1104.5 | 1102.7 | 1101.0 | 1099.3 | 1099.6 | 1101.8 | 1104.2 | 1106.5 | 1108.7 | 1109.8 |
| 157.5° | 1127.3 | 1125.9 | 1124.5 | 1122.9 | 1121.5 | 1121.6 | 1123.2 | 1124.8 | 1126.4 | 1128.0 | 1129.4 |
| 160°   | 1139.7 | 1138.6 | 1137.5 | 1136.2 | 1135.1 | 1135.1 | 1136.2 | 1137.5 | 1138.6 | 1139.7 | 1140.9 |
| 162.5° | 1150.8 | 1149.6 | 1148.5 | 1147.3 | 1146.1 | 1146.0 | 1147.1 | 1148.0 | 1149.1 | 1150.1 | 1151.3 |
| 165°   | 1165.5 | 1164.4 | 1163.3 | 1162.1 | 1160.9 | 1160.6 | 1161.2 | 1161.8 | 1162.4 | 1163.0 | 1164.3 |
| 167.5° | 1176.6 | 1175.4 | 1174.3 | 1173.1 | 1172.0 | 1171.7 | 1172.2 | 1172.7 | 1173.3 | 1173.8 | 1175.2 |
| 170°   | 1182.8 | 1181.6 | 1180.4 | 1179.3 | 1178.2 | 1177.8 | 1178.2 | 1178.6 | 1178.9 | 1179.3 | 1180.6 |
| 172.5° | 1186.8 | 1185.7 | 1184.6 | 1183.5 | 1182.3 | 1181.9 | 1182.3 | 1182.7 | 1183.1 | 1183.5 | 1184.8 |
| 175°   | 1192.2 | 1190.9 | 1189.6 | 1188.2 | 1186.8 | 1186.4 | 1186.8 | 1187.1 | 1187.5 | 1187.9 | 1189.3 |
| 177.5° | 1193.1 | 1192.0 | 1191.0 | 1189.9 | 1188.8 | 1188.4 | 1188.5 | 1188.6 | 1188.8 | 1188.9 | 1190.1 |
| 180°   | 1189.7 | 1189.7 | 1189.7 | 1189.7 | 1189.7 | 1189.7 | 1189.7 | 1189.7 | 1189.7 | 1189.7 | 1189.7 |

TEST NUMBER: P331363-830

CATALOG NUMBER: SA2XXDIP-C675D925U830-4F0-1E-UDD-F

**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°  | 13.6   | 13.3   | 12.9   | 12.7   | 12.6   | 12.5   | 12.4   | 12.3   |
| 90°    | 19.1   | 20.1   | 21.0   | 21.7   | 22.1   | 22.4   | 22.9   | 23.3   |
| 92.5°  | 20.9   | 21.5   | 22.0   | 22.3   | 22.5   | 22.8   | 23.0   | 23.3   |
| 95°    | 35.4   | 36.5   | 37.4   | 37.8   | 37.6   | 37.4   | 37.2   | 37.0   |
| 97.5°  | 46.5   | 47.2   | 48.0   | 48.4   | 48.7   | 48.9   | 49.2   | 49.4   |
| 100°   | 52.1   | 53.6   | 55.2   | 56.2   | 56.6   | 56.9   | 57.3   | 57.7   |
| 102.5° | 54.4   | 56.5   | 58.4   | 59.7   | 60.2   | 60.7   | 61.3   | 61.8   |
| 105°   | 56.7   | 58.8   | 60.9   | 62.4   | 63.2   | 63.9   | 64.7   | 65.4   |
| 107.5° | 69.2   | 67.1   | 64.9   | 64.3   | 65.0   | 65.8   | 66.5   | 67.3   |
| 110°   | 112.4  | 93.2   | 74.1   | 64.9   | 65.7   | 66.4   | 67.2   | 68.1   |



TEST NUMBER: P331363-830

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**CANDELA DISTRIBUTION (continued):**

|        | 55°    | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 240.4  | 170.6  | 100.9  | 66.3   | 66.8   | 67.5   | 68.1   | 68.7   |
| 115°   | 354.0  | 265.4  | 176.8  | 125.6  | 111.9  | 98.1   | 84.4   | 70.6   |
| 117.5° | 545.4  | 524.1  | 502.6  | 469.2  | 424.0  | 378.7  | 333.5  | 288.2  |
| 120°   | 635.6  | 637.9  | 640.2  | 628.4  | 602.6  | 576.7  | 550.9  | 525.1  |
| 122.5° | 674.4  | 675.7  | 677.1  | 675.3  | 670.3  | 665.2  | 660.3  | 655.3  |
| 125°   | 730.1  | 731.4  | 732.7  | 733.7  | 734.2  | 734.8  | 735.5  | 736.0  |
| 127.5° | 781.6  | 783.5  | 785.5  | 786.5  | 786.6  | 786.7  | 786.8  | 786.9  |
| 130°   | 814.3  | 816.3  | 818.4  | 819.4  | 819.3  | 819.0  | 818.8  | 818.6  |
| 132.5° | 846.0  | 847.8  | 849.6  | 850.4  | 850.2  | 850.0  | 849.8  | 849.6  |
| 135°   | 891.4  | 893.2  | 895.1  | 895.9  | 895.5  | 895.1  | 894.8  | 894.4  |
| 137.5° | 933.4  | 935.3  | 937.2  | 937.8  | 937.2  | 936.5  | 935.9  | 935.2  |
| 140°   | 960.6  | 962.4  | 964.1  | 964.5  | 963.6  | 962.6  | 961.7  | 960.6  |
| 142.5° | 985.8  | 987.4  | 989.0  | 989.3  | 988.4  | 987.4  | 986.5  | 985.4  |
| 145°   | 1021.1 | 1022.4 | 1023.7 | 1023.9 | 1022.9 | 1022.0 | 1021.1 | 1020.1 |
| 147.5° | 1051.7 | 1052.6 | 1053.7 | 1053.8 | 1052.9 | 1052.2 | 1051.3 | 1050.6 |
| 150°   | 1070.5 | 1071.8 | 1072.9 | 1073.0 | 1072.0 | 1071.0 | 1070.1 | 1069.1 |
| 152.5° | 1087.8 | 1088.9 | 1090.1 | 1090.1 | 1088.7 | 1087.5 | 1086.3 | 1085.0 |
| 155°   | 1111.1 | 1112.2 | 1113.3 | 1113.1 | 1111.6 | 1110.0 | 1108.5 | 1107.0 |
| 157.5° | 1130.6 | 1131.9 | 1133.2 | 1133.1 | 1131.6 | 1130.1 | 1128.6 | 1127.2 |
| 160°   | 1142.0 | 1143.2 | 1144.3 | 1144.2 | 1142.8 | 1141.5 | 1140.2 | 1138.9 |
| 162.5° | 1152.6 | 1154.0 | 1155.3 | 1155.1 | 1153.5 | 1151.8 | 1150.2 | 1148.5 |
| 165°   | 1165.6 | 1167.0 | 1168.3 | 1168.3 | 1167.0 | 1165.6 | 1164.3 | 1163.0 |
| 167.5° | 1176.5 | 1177.8 | 1179.2 | 1178.9 | 1177.2 | 1175.5 | 1173.8 | 1172.1 |
| 170°   | 1182.0 | 1183.4 | 1184.7 | 1184.5 | 1182.8 | 1181.0 | 1179.3 | 1177.6 |
| 172.5° | 1186.1 | 1187.5 | 1188.8 | 1188.6 | 1186.8 | 1185.2 | 1183.5 | 1181.8 |
| 175°   | 1190.6 | 1191.9 | 1193.3 | 1193.0 | 1191.1 | 1189.2 | 1187.2 | 1185.3 |
| 177.5° | 1191.1 | 1192.2 | 1193.3 | 1193.1 | 1191.8 | 1190.3 | 1188.9 | 1187.6 |
| 180°   | 1189.7 | 1189.7 | 1189.7 | 1189.7 | 1189.7 | 1189.7 | 1189.7 | 1189.7 |

(END OF REPORT)