

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: P331541-940

Luminaire Tested: **S122DIW-S675D970U940-4F0-1E-UDD-F**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P331541-940  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-2,  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: S122DIW-S675D970U940-4F0-1E-UDD-F  
Description: DEFINE 2 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE  
DOWNLIGHT 675 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER  
UPLIGHT 970 LUMENS PER FOOT, NO LENS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5862.3 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

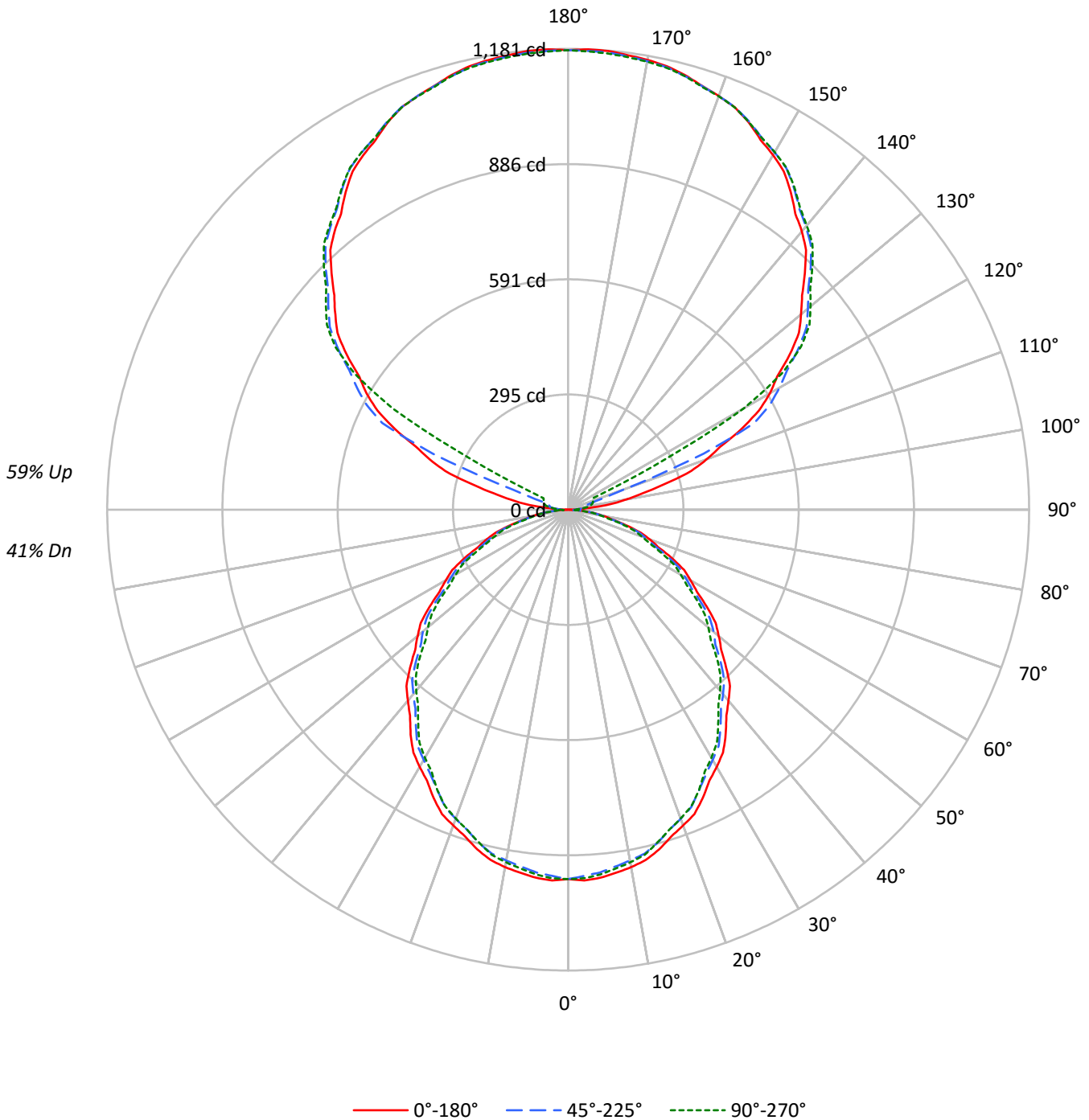
Input Watts (W): 52.6  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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 | 0  |
| RCR |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 0   | 105 | 105 | 105 | 105 | 96 | 96 | 96 | 96 | 78 | 78 | 78 | 63 | 63 | 63 | 48 | 48 | 48 | 41 |
| 1   | 96  | 92  | 88  | 84  | 87 | 84 | 80 | 77 | 69 | 66 | 64 | 55 | 53 | 52 | 42 | 41 | 40 | 35 |
| 2   | 87  | 80  | 74  | 69  | 79 | 73 | 68 | 63 | 60 | 56 | 53 | 48 | 46 | 43 | 37 | 36 | 34 | 29 |
| 3   | 80  | 70  | 63  | 57  | 72 | 64 | 58 | 53 | 53 | 48 | 45 | 43 | 39 | 37 | 33 | 31 | 29 | 25 |
| 4   | 73  | 62  | 54  | 48  | 66 | 57 | 50 | 45 | 47 | 42 | 38 | 38 | 34 | 31 | 30 | 27 | 25 | 21 |
| 5   | 67  | 55  | 47  | 41  | 61 | 51 | 44 | 38 | 42 | 37 | 33 | 34 | 30 | 27 | 27 | 24 | 22 | 18 |
| 6   | 61  | 50  | 42  | 36  | 56 | 45 | 38 | 33 | 38 | 33 | 29 | 31 | 27 | 24 | 24 | 21 | 19 | 16 |
| 7   | 57  | 45  | 37  | 31  | 52 | 41 | 34 | 29 | 34 | 29 | 25 | 28 | 24 | 21 | 22 | 19 | 17 | 14 |
| 8   | 53  | 40  | 33  | 28  | 48 | 37 | 31 | 26 | 31 | 26 | 22 | 26 | 22 | 19 | 20 | 17 | 15 | 13 |
| 9   | 49  | 37  | 30  | 25  | 45 | 34 | 27 | 23 | 29 | 23 | 20 | 23 | 20 | 17 | 19 | 16 | 14 | 12 |
| 10  | 46  | 34  | 27  | 22  | 42 | 31 | 25 | 21 | 26 | 21 | 18 | 22 | 18 | 15 | 17 | 15 | 12 | 10 |

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

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 15285 | 15285 | 15285 |
| 5°  | 15344 | 15123 | 15211 |
| 10° | 15252 | 14969 | 15044 |
| 15° | 15064 | 14775 | 14760 |
| 20° | 14795 | 14483 | 14467 |
| 25° | 14530 | 14125 | 14125 |
| 30° | 14188 | 13798 | 13679 |
| 35° | 13868 | 13403 | 13204 |
| 40° | 13468 | 13009 | 12760 |
| 45° | 13075 | 12618 | 12305 |
| 50° | 12645 | 12210 | 11776 |
| 55° | 12197 | 11738 | 11299 |
| 60° | 11699 | 11170 | 10756 |
| 65° | 11163 | 10609 | 10120 |
| 70° | 10485 | 9928  | 9456  |
| 75° | 9538  | 9145  | 8914  |
| 80° | 8461  | 8210  | 7782  |
| 85° | 6928  | 6576  | 5891  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 89.0   | 1.5       |
| 10°-20°   | 250.5  | 4.3       |
| 20°-30°   | 368.2  | 6.3       |
| 30°-40°   | 427.7  | 7.3       |
| 40°-50°   | 427.2  | 7.3       |
| 50°-60°   | 372.6  | 6.4       |
| 60°-70°   | 275.5  | 4.7       |
| 70°-80°   | 156.0  | 2.7       |
| 80°-90°   | 44.9   | 0.8       |
| 90°-100°  | 39.3   | 0.7       |
| 100°-110° | 144.0  | 2.5       |
| 110°-120° | 385.0  | 6.6       |
| 120°-130° | 635.6  | 10.8      |
| 130°-140° | 675.9  | 11.5      |
| 140°-150° | 628.3  | 10.7      |
| 150°-160° | 505.1  | 8.6       |
| 160°-170° | 325.5  | 5.6       |
| 170°-180° | 112.0  | 1.9       |
| 0°-30°    | 707.7  | 12.1      |
| 0°-40°    | 1135.4 | 19.4      |
| 0°-60°    | 1935.1 | 33.0      |
| 0°-90°    | 2411.5 | 41.1      |
| 90°-120°  | 568.4  | 9.7       |
| 90°-150°  | 2508.2 | 42.8      |
| 90°-180°  | 3451.0 | 58.9      |
| 0°-180°   | 5862.3 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 947  | 947   | 947  | 947   | 947  |      |
| 5°   | 947  | 943   | 933  | 940   | 938  | 90   |
| 15°  | 901  | 895   | 884  | 887   | 883  | 254  |
| 25°  | 816  | 808   | 793  | 794   | 793  | 375  |
| 35°  | 704  | 694   | 680  | 675   | 670  | 439  |
| 45°  | 573  | 566   | 553  | 543   | 539  | 442  |
| 55°  | 433  | 428   | 417  | 406   | 401  | 387  |
| 65°  | 292  | 286   | 278  | 270   | 265  | 289  |
| 75°  | 153  | 151   | 147  | 142   | 143  | 163  |
| 85°  | 37   | 36    | 36   | 33    | 32   | 43   |
| 90°  | 1    | 10    | 17   | 21    | 23   | 4    |
| 95°  | 55   | 29    | 33   | 37    | 37   | 68   |
| 105° | 259  | 270   | 52   | 61    | 65   | 277  |
| 115° | 490  | 505   | 526  | 150   | 70   | 482  |
| 125° | 693  | 704   | 720  | 726   | 728  | 617  |
| 135° | 857  | 870   | 878  | 886   | 885  | 662  |
| 145° | 994  | 994   | 1008 | 1013  | 1010 | 622  |
| 155° | 1095 | 1088  | 1097 | 1102  | 1096 | 504  |
| 165° | 1154 | 1149  | 1151 | 1156  | 1151 | 326  |
| 175° | 1180 | 1175  | 1176 | 1181  | 1173 | 112  |
| 180° | 1178 | 1178  | 1178 | 1178  | 1178 |      |



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**CANDELA DISTRIBUTION (FULL):**

|        | 0°    | 5°    | 10°   | 15°   | 20°   | 25°   | 30°   | 35°   | 40°   | 45°   | 50°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°     | 946.7 | 946.7 | 946.7 | 946.7 | 946.7 | 946.7 | 946.7 | 946.7 | 946.7 | 946.7 | 946.7 |
| 2.5°   | 951.1 | 950.3 | 949.5 | 948.7 | 947.9 | 946.6 | 944.8 | 943.0 | 941.2 | 939.4 | 941.0 |
| 5°     | 946.7 | 945.9 | 945.1 | 944.3 | 943.5 | 942.0 | 939.8 | 937.5 | 935.3 | 933.1 | 934.7 |
| 7.5°   | 938.3 | 937.1 | 935.9 | 934.6 | 933.4 | 931.6 | 929.3 | 927.0 | 924.8 | 922.5 | 924.1 |
| 10°    | 930.3 | 928.9 | 927.5 | 926.0 | 924.7 | 922.7 | 920.3 | 917.9 | 915.4 | 913.0 | 914.6 |
| 12.5°  | 919.4 | 918.2 | 916.9 | 915.6 | 914.4 | 912.6 | 910.1 | 907.7 | 905.3 | 902.9 | 904.0 |
| 15°    | 901.2 | 900.0 | 898.8 | 897.6 | 896.3 | 894.4 | 891.8 | 889.1 | 886.5 | 883.9 | 884.8 |
| 17.5°  | 877.9 | 876.6 | 875.5 | 874.2 | 873.1 | 871.1 | 868.4 | 865.8 | 863.1 | 860.4 | 861.4 |
| 20°    | 861.1 | 860.0 | 858.7 | 857.5 | 856.3 | 854.3 | 851.4 | 848.6 | 845.8 | 842.9 | 843.6 |
| 22.5°  | 844.4 | 842.7 | 841.0 | 839.3 | 837.6 | 835.4 | 832.8 | 830.1 | 827.4 | 824.7 | 824.8 |
| 25°    | 815.6 | 814.0 | 812.4 | 810.7 | 809.1 | 806.6 | 803.2 | 799.8 | 796.3 | 792.9 | 793.3 |
| 27.5°  | 782.8 | 781.4 | 780.0 | 778.5 | 777.0 | 775.0 | 772.2 | 769.5 | 766.8 | 764.1 | 763.5 |
| 30°    | 761.0 | 759.4 | 757.8 | 756.2 | 754.6 | 752.2 | 749.2 | 746.2 | 743.2 | 740.1 | 739.5 |
| 32.5°  | 737.7 | 736.4 | 735.1 | 733.8 | 732.5 | 730.3 | 727.1 | 723.9 | 720.7 | 717.5 | 716.4 |
| 35°    | 703.6 | 701.7 | 699.6 | 697.6 | 695.5 | 692.9 | 689.7 | 686.4 | 683.2 | 680.0 | 678.8 |
| 37.5°  | 665.2 | 663.4 | 661.6 | 659.9 | 658.2 | 655.6 | 652.4 | 649.2 | 646.0 | 642.7 | 641.1 |
| 40°    | 639.0 | 637.4 | 635.8 | 634.2 | 632.6 | 630.2 | 626.9 | 623.7 | 620.5 | 617.2 | 615.4 |
| 42.5°  | 613.6 | 611.9 | 610.3 | 608.7 | 607.1 | 604.7 | 601.4 | 598.2 | 594.9 | 591.7 | 589.7 |
| 45°    | 572.6 | 571.1 | 569.7 | 568.4 | 566.9 | 564.7 | 561.7 | 558.7 | 555.6 | 552.6 | 550.4 |
| 47.5°  | 531.8 | 530.5 | 529.1 | 527.8 | 526.5 | 524.2 | 521.0 | 517.9 | 514.8 | 511.6 | 509.3 |
| 50°    | 503.4 | 502.4 | 501.4 | 500.3 | 499.4 | 497.4 | 494.6 | 491.8 | 488.9 | 486.1 | 483.3 |
| 52.5°  | 475.7 | 474.4 | 473.1 | 471.7 | 470.4 | 468.4 | 465.7 | 463.1 | 460.4 | 457.7 | 455.4 |
| 55°    | 433.3 | 432.1 | 430.9 | 429.6 | 428.5 | 426.6 | 424.2 | 421.8 | 419.4 | 417.0 | 414.5 |
| 57.5°  | 390.7 | 389.8 | 388.8 | 387.8 | 386.8 | 385.0 | 382.4 | 379.7 | 377.0 | 374.3 | 371.9 |
| 60°    | 362.3 | 361.5 | 360.7 | 359.9 | 359.1 | 357.2 | 354.5 | 351.6 | 348.7 | 345.9 | 343.7 |
| 62.5°  | 334.7 | 333.3 | 332.1 | 330.7 | 329.5 | 327.7 | 325.6 | 323.3 | 321.2 | 319.0 | 316.9 |
| 65°    | 292.2 | 291.0 | 289.8 | 288.6 | 287.3 | 285.7 | 283.7 | 281.7 | 279.6 | 277.7 | 275.8 |
| 67.5°  | 249.1 | 248.1 | 247.1 | 246.1 | 245.1 | 243.8 | 241.9 | 240.1 | 238.4 | 236.5 | 235.1 |
| 70°    | 222.1 | 221.3 | 220.5 | 219.7 | 218.9 | 217.6 | 215.7 | 213.9 | 212.1 | 210.3 | 208.8 |
| 72.5°  | 194.5 | 193.6 | 192.8 | 192.0 | 191.2 | 190.2 | 189.0 | 187.9 | 186.7 | 185.5 | 184.1 |
| 75°    | 152.9 | 152.5 | 152.1 | 151.7 | 151.3 | 150.6 | 149.6 | 148.6 | 147.6 | 146.6 | 145.3 |
| 77.5°  | 115.8 | 115.1 | 114.4 | 113.7 | 113.1 | 112.5 | 112.1 | 111.6 | 111.3 | 110.8 | 110.3 |
| 80°    | 91.0  | 90.9  | 90.6  | 90.4  | 90.2  | 89.9  | 89.5  | 89.1  | 88.7  | 88.3  | 87.7  |
| 82.5°  | 67.8  | 67.7  | 67.7  | 67.6  | 67.6  | 67.4  | 67.1  | 67.0  | 66.7  | 66.4  | 65.7  |
| 85°    | 37.4  | 37.1  | 36.9  | 36.7  | 36.5  | 36.3  | 36.1  | 35.9  | 35.7  | 35.5  | 34.9  |
| 87.5°  | 13.3  | 13.4  | 13.5  | 13.6  | 13.6  | 13.6  | 13.6  | 13.6  | 13.6  | 13.6  | 13.3  |
| 90°    | 0.9   | 2.9   | 5.0   | 7.1   | 9.2   | 11.0  | 12.5  | 14.0  | 15.5  | 17.0  | 18.0  |
| 92.5°  | 17.2  | 17.0  | 16.9  | 16.7  | 16.5  | 16.8  | 17.5  | 18.3  | 19.0  | 19.8  | 20.2  |
| 95°    | 55.4  | 49.1  | 42.9  | 36.6  | 30.4  | 27.9  | 29.2  | 30.6  | 31.9  | 33.3  | 34.2  |
| 97.5°  | 109.9 | 92.3  | 74.7  | 57.1  | 39.5  | 32.2  | 35.3  | 38.3  | 41.4  | 44.5  | 45.2  |
| 100°   | 150.8 | 124.8 | 98.9  | 73.0  | 47.1  | 35.7  | 38.9  | 42.1  | 45.4  | 48.6  | 50.1  |
| 102.5° | 195.8 | 190.3 | 184.9 | 179.3 | 173.8 | 157.7 | 130.7 | 103.8 | 76.9  | 49.9  | 51.9  |
| 105°   | 259.0 | 264.7 | 270.4 | 276.1 | 281.8 | 258.8 | 207.1 | 155.3 | 103.7 | 52.0  | 54.0  |
| 107.5° | 331.1 | 335.7 | 340.3 | 344.8 | 349.5 | 320.7 | 258.8 | 196.7 | 134.7 | 72.8  | 70.6  |
| 110°   | 377.5 | 381.5 | 385.4 | 389.4 | 393.3 | 368.0 | 313.3 | 258.6 | 203.8 | 149.1 | 130.2 |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 421.1  | 424.6  | 428.1  | 431.7  | 435.2  | 430.2  | 416.7  | 403.1  | 389.6  | 376.1  | 307.0  |
| 115°   | 489.9  | 493.1  | 496.4  | 499.6  | 502.8  | 506.8  | 511.5  | 516.2  | 521.0  | 525.8  | 438.0  |
| 117.5° | 551.4  | 555.1  | 558.7  | 562.2  | 565.9  | 569.3  | 572.6  | 575.8  | 579.1  | 582.3  | 561.1  |
| 120°   | 596.5  | 599.3  | 602.1  | 604.9  | 607.8  | 610.9  | 614.3  | 617.8  | 621.2  | 624.6  | 626.9  |
| 122.5° | 634.6  | 637.6  | 640.6  | 643.5  | 646.6  | 650.0  | 653.6  | 657.4  | 661.0  | 664.8  | 666.1  |
| 125°   | 692.7  | 695.2  | 697.7  | 700.1  | 702.6  | 705.6  | 709.2  | 712.8  | 716.4  | 720.0  | 721.3  |
| 127.5° | 745.4  | 748.1  | 750.8  | 753.6  | 756.3  | 759.0  | 761.7  | 764.4  | 767.0  | 769.7  | 771.7  |
| 130°   | 778.8  | 781.9  | 784.9  | 787.8  | 790.9  | 793.4  | 795.5  | 797.6  | 799.7  | 801.8  | 803.9  |
| 132.5° | 812.9  | 815.5  | 818.1  | 820.6  | 823.1  | 825.5  | 827.6  | 829.6  | 831.7  | 833.8  | 835.6  |
| 135°   | 857.2  | 860.2  | 863.3  | 866.3  | 869.3  | 871.6  | 873.3  | 875.0  | 876.7  | 878.5  | 880.4  |
| 137.5° | 902.0  | 904.1  | 906.2  | 908.4  | 910.4  | 912.5  | 914.4  | 916.3  | 918.3  | 920.2  | 922.1  |
| 140°   | 931.3  | 932.8  | 934.3  | 935.9  | 937.4  | 939.1  | 941.2  | 943.3  | 945.4  | 947.5  | 949.2  |
| 142.5° | 955.8  | 957.2  | 958.6  | 959.9  | 961.3  | 963.1  | 965.5  | 968.0  | 970.4  | 972.7  | 974.3  |
| 145°   | 994.3  | 994.2  | 994.0  | 993.8  | 993.6  | 995.1  | 998.4  | 1001.6 | 1004.8 | 1008.0 | 1009.3 |
| 147.5° | 1028.0 | 1027.2 | 1026.4 | 1025.7 | 1025.0 | 1026.3 | 1029.5 | 1032.6 | 1035.8 | 1039.0 | 1040.0 |
| 150°   | 1049.7 | 1048.4 | 1047.0 | 1045.8 | 1044.5 | 1045.3 | 1048.3 | 1051.3 | 1054.4 | 1057.4 | 1058.5 |
| 152.5° | 1068.2 | 1066.7 | 1065.1 | 1063.7 | 1062.2 | 1062.9 | 1065.8 | 1068.7 | 1071.6 | 1074.4 | 1075.6 |
| 155°   | 1094.9 | 1093.1 | 1091.5 | 1089.8 | 1088.1 | 1088.3 | 1090.7 | 1092.9 | 1095.2 | 1097.4 | 1098.6 |
| 157.5° | 1115.9 | 1114.5 | 1112.9 | 1111.5 | 1110.1 | 1110.2 | 1111.8 | 1113.4 | 1114.9 | 1116.5 | 1117.8 |
| 160°   | 1128.1 | 1127.0 | 1125.9 | 1124.7 | 1123.6 | 1123.6 | 1124.7 | 1125.9 | 1127.0 | 1128.1 | 1129.3 |
| 162.5° | 1139.1 | 1137.9 | 1136.8 | 1135.6 | 1134.5 | 1134.4 | 1135.4 | 1136.4 | 1137.4 | 1138.4 | 1139.6 |
| 165°   | 1153.7 | 1152.5 | 1151.4 | 1150.3 | 1149.1 | 1148.9 | 1149.4 | 1150.0 | 1150.6 | 1151.1 | 1152.4 |
| 167.5° | 1164.6 | 1163.4 | 1162.3 | 1161.2 | 1160.0 | 1159.8 | 1160.3 | 1160.8 | 1161.4 | 1161.9 | 1163.1 |
| 170°   | 1170.7 | 1169.6 | 1168.5 | 1167.3 | 1166.2 | 1165.8 | 1166.2 | 1166.5 | 1167.0 | 1167.3 | 1168.7 |
| 172.5° | 1174.8 | 1173.7 | 1172.5 | 1171.4 | 1170.3 | 1169.9 | 1170.3 | 1170.6 | 1171.0 | 1171.4 | 1172.8 |
| 175°   | 1180.1 | 1178.8 | 1177.4 | 1176.2 | 1174.8 | 1174.3 | 1174.7 | 1175.1 | 1175.5 | 1175.8 | 1177.1 |
| 177.5° | 1181.0 | 1179.9 | 1178.8 | 1177.8 | 1176.7 | 1176.3 | 1176.4 | 1176.5 | 1176.7 | 1176.9 | 1177.9 |
| 180°   | 1177.5 | 1177.5 | 1177.5 | 1177.5 | 1177.5 | 1177.5 | 1177.5 | 1177.5 | 1177.5 | 1177.5 | 1177.5 |



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**CANDELA DISTRIBUTION (continued):**

|        | 55°   | 60°   | 65°   | 70°   | 75°   | 80°   | 85°   | 90°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°     | 946.7 | 946.7 | 946.7 | 946.7 | 946.7 | 946.7 | 946.7 | 946.7 |
| 2.5°   | 942.6 | 944.3 | 945.9 | 946.6 | 946.2 | 945.9 | 945.6 | 945.3 |
| 5°     | 936.3 | 937.9 | 939.5 | 940.1 | 939.8 | 939.3 | 939.0 | 938.5 |
| 7.5°   | 925.8 | 927.4 | 929.0 | 929.5 | 929.1 | 928.7 | 928.3 | 927.8 |
| 10°    | 916.2 | 917.9 | 919.5 | 920.0 | 919.4 | 918.8 | 918.2 | 917.6 |
| 12.5°  | 905.1 | 906.2 | 907.4 | 907.7 | 907.2 | 906.9 | 906.4 | 906.0 |
| 15°    | 885.6 | 886.4 | 887.2 | 887.1 | 886.0 | 885.0 | 884.0 | 883.0 |
| 17.5°  | 862.3 | 863.2 | 864.2 | 864.2 | 863.2 | 862.2 | 861.2 | 860.2 |
| 20°    | 844.2 | 844.8 | 845.3 | 845.3 | 844.5 | 843.6 | 842.8 | 842.0 |
| 22.5°  | 825.0 | 825.1 | 825.2 | 825.0 | 824.6 | 824.0 | 823.6 | 823.1 |
| 25°    | 793.7 | 794.1 | 794.5 | 794.5 | 794.1 | 793.7 | 793.3 | 792.9 |
| 27.5°  | 762.9 | 762.3 | 761.7 | 760.9 | 759.9 | 758.9 | 758.0 | 757.0 |
| 30°    | 738.9 | 738.2 | 737.6 | 736.9 | 736.1 | 735.3 | 734.5 | 733.7 |
| 32.5°  | 715.3 | 714.3 | 713.1 | 712.2 | 711.4 | 710.6 | 709.7 | 708.9 |
| 35°    | 677.6 | 676.4 | 675.1 | 674.0 | 673.1 | 672.0 | 671.0 | 669.9 |
| 37.5°  | 639.7 | 638.2 | 636.7 | 635.4 | 634.5 | 633.5 | 632.6 | 631.6 |
| 40°    | 613.6 | 611.7 | 609.9 | 608.6 | 607.8 | 607.0 | 606.2 | 605.4 |
| 42.5°  | 587.7 | 585.8 | 583.8 | 582.2 | 581.0 | 580.0 | 578.8 | 577.7 |
| 45°    | 548.1 | 545.9 | 543.7 | 542.2 | 541.4 | 540.6 | 539.8 | 538.9 |
| 47.5°  | 506.9 | 504.5 | 502.2 | 500.4 | 499.3 | 498.1 | 497.0 | 495.8 |
| 50°    | 480.5 | 477.6 | 474.7 | 472.9 | 471.8 | 470.8 | 469.8 | 468.8 |
| 52.5°  | 453.0 | 450.7 | 448.4 | 446.5 | 445.1 | 443.8 | 442.5 | 441.1 |
| 55°    | 412.1 | 409.7 | 407.2 | 405.5 | 404.5 | 403.5 | 402.4 | 401.4 |
| 57.5°  | 369.5 | 367.1 | 364.8 | 363.2 | 362.4 | 361.7 | 360.9 | 360.1 |
| 60°    | 341.4 | 339.2 | 337.0 | 335.6 | 335.0 | 334.4 | 333.8 | 333.1 |
| 62.5°  | 314.9 | 312.8 | 310.8 | 309.3 | 308.5 | 307.7 | 307.0 | 306.2 |
| 65°    | 274.0 | 272.2 | 270.4 | 268.9 | 268.0 | 266.9 | 265.9 | 264.9 |
| 67.5°  | 233.6 | 232.3 | 230.9 | 229.7 | 228.9 | 228.1 | 227.3 | 226.5 |
| 70°    | 207.4 | 206.1 | 204.6 | 203.5 | 202.7 | 201.9 | 201.1 | 200.3 |
| 72.5°  | 182.7 | 181.3 | 179.9 | 178.8 | 178.2 | 177.5 | 176.9 | 176.2 |
| 75°    | 144.1 | 142.9 | 141.7 | 141.3 | 141.7 | 142.1 | 142.5 | 142.9 |
| 77.5°  | 109.7 | 109.1 | 108.4 | 107.9 | 107.3 | 106.7 | 106.2 | 105.6 |
| 80°    | 87.1  | 86.5  | 85.9  | 85.3  | 85.0  | 84.5  | 84.2  | 83.7  |
| 82.5°  | 64.9  | 64.1  | 63.4  | 63.0  | 62.9  | 62.8  | 62.7  | 62.6  |
| 85°    | 34.3  | 33.7  | 33.1  | 32.6  | 32.5  | 32.3  | 32.1  | 31.8  |
| 87.5°  | 13.0  | 12.8  | 12.4  | 12.2  | 12.1  | 12.0  | 11.9  | 11.9  |
| 90°    | 18.9  | 19.9  | 20.9  | 21.5  | 21.8  | 22.2  | 22.6  | 23.0  |
| 92.5°  | 20.8  | 21.2  | 21.8  | 22.1  | 22.3  | 22.6  | 22.7  | 23.0  |
| 95°    | 35.1  | 36.1  | 37.0  | 37.4  | 37.2  | 37.0  | 36.8  | 36.6  |
| 97.5°  | 46.0  | 46.7  | 47.5  | 48.0  | 48.2  | 48.4  | 48.7  | 48.9  |
| 100°   | 51.6  | 53.1  | 54.7  | 55.6  | 55.9  | 56.4  | 56.7  | 57.1  |
| 102.5° | 53.9  | 55.8  | 57.8  | 59.0  | 59.6  | 60.1  | 60.6  | 61.2  |
| 105°   | 56.2  | 58.2  | 60.3  | 61.7  | 62.5  | 63.2  | 64.0  | 64.7  |
| 107.5° | 68.5  | 66.4  | 64.3  | 63.6  | 64.4  | 65.1  | 65.9  | 66.6  |
| 110°   | 111.2 | 92.3  | 73.4  | 64.3  | 65.0  | 65.8  | 66.5  | 67.3  |





TEST NUMBER: P331541-940

CATALOG NUMBER: S122DIW-S675D970U940-4F0-1E-UDD-F

**CANDELA DISTRIBUTION (continued):**

|        | 55°    | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 237.9  | 168.9  | 99.8   | 65.5   | 66.2   | 66.8   | 67.4   | 68.0   |
| 115°   | 350.4  | 262.7  | 175.0  | 124.4  | 110.8  | 97.1   | 83.5   | 69.9   |
| 117.5° | 539.8  | 518.7  | 497.5  | 464.5  | 419.6  | 374.9  | 330.1  | 285.3  |
| 120°   | 629.1  | 631.3  | 633.6  | 622.0  | 596.5  | 570.9  | 545.3  | 519.8  |
| 122.5° | 667.5  | 668.9  | 670.2  | 668.4  | 663.4  | 658.5  | 653.5  | 648.6  |
| 125°   | 722.6  | 724.0  | 725.3  | 726.2  | 726.8  | 727.4  | 727.9  | 728.5  |
| 127.5° | 773.6  | 775.5  | 777.5  | 778.5  | 778.6  | 778.7  | 778.8  | 778.9  |
| 130°   | 805.9  | 808.1  | 810.1  | 811.1  | 810.8  | 810.7  | 810.5  | 810.3  |
| 132.5° | 837.4  | 839.2  | 841.0  | 841.8  | 841.5  | 841.3  | 841.2  | 841.0  |
| 135°   | 882.3  | 884.1  | 886.0  | 886.8  | 886.4  | 886.0  | 885.6  | 885.3  |
| 137.5° | 923.9  | 925.8  | 927.6  | 928.3  | 927.6  | 926.9  | 926.3  | 925.7  |
| 140°   | 950.9  | 952.6  | 954.3  | 954.7  | 953.8  | 952.8  | 951.8  | 950.9  |
| 142.5° | 975.8  | 977.4  | 978.9  | 979.2  | 978.3  | 977.3  | 976.4  | 975.4  |
| 145°   | 1010.7 | 1012.0 | 1013.3 | 1013.5 | 1012.5 | 1011.6 | 1010.7 | 1009.7 |
| 147.5° | 1041.0 | 1042.0 | 1042.9 | 1043.0 | 1042.2 | 1041.4 | 1040.6 | 1039.8 |
| 150°   | 1059.7 | 1060.8 | 1061.9 | 1062.0 | 1061.1 | 1060.2 | 1059.2 | 1058.3 |
| 152.5° | 1076.7 | 1077.8 | 1079.0 | 1079.0 | 1077.7 | 1076.5 | 1075.2 | 1074.0 |
| 155°   | 1099.7 | 1100.8 | 1102.0 | 1101.8 | 1100.3 | 1098.8 | 1097.3 | 1095.7 |
| 157.5° | 1119.1 | 1120.4 | 1121.7 | 1121.6 | 1120.1 | 1118.7 | 1117.1 | 1115.7 |
| 160°   | 1130.4 | 1131.5 | 1132.7 | 1132.6 | 1131.2 | 1129.9 | 1128.6 | 1127.3 |
| 162.5° | 1140.9 | 1142.2 | 1143.5 | 1143.4 | 1141.7 | 1140.1 | 1138.4 | 1136.8 |
| 165°   | 1153.8 | 1155.1 | 1156.5 | 1156.5 | 1155.1 | 1153.8 | 1152.4 | 1151.1 |
| 167.5° | 1164.5 | 1165.8 | 1167.2 | 1167.0 | 1165.3 | 1163.6 | 1161.9 | 1160.2 |
| 170°   | 1170.0 | 1171.3 | 1172.6 | 1172.4 | 1170.7 | 1169.0 | 1167.3 | 1165.6 |
| 172.5° | 1174.0 | 1175.4 | 1176.7 | 1176.5 | 1174.8 | 1173.1 | 1171.4 | 1169.7 |
| 175°   | 1178.5 | 1179.8 | 1181.2 | 1180.9 | 1178.9 | 1177.1 | 1175.2 | 1173.3 |
| 177.5° | 1179.0 | 1180.0 | 1181.1 | 1181.0 | 1179.6 | 1178.2 | 1176.9 | 1175.5 |
| 180°   | 1177.5 | 1177.5 | 1177.5 | 1177.5 | 1177.5 | 1177.5 | 1177.5 | 1177.5 |

(END OF REPORT)