

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: P331361-830

Luminaire Tested: **S122DIP-S675D925U830-4F0-1E-UDD-D1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P331361-830  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-8,  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: S122DIP-S675D925U830-4F0-1E-UDD-D1  
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 675 LUMENS PER FOOT, DROP SATIN WHITE DIFFUSER  
UPLIGHT 925 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5654.0 lumens  
Efficiency: N/A  
Efficacy: 108.7 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.32 / 1.42  
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.08')  
CIE Type: Semi-Indirect

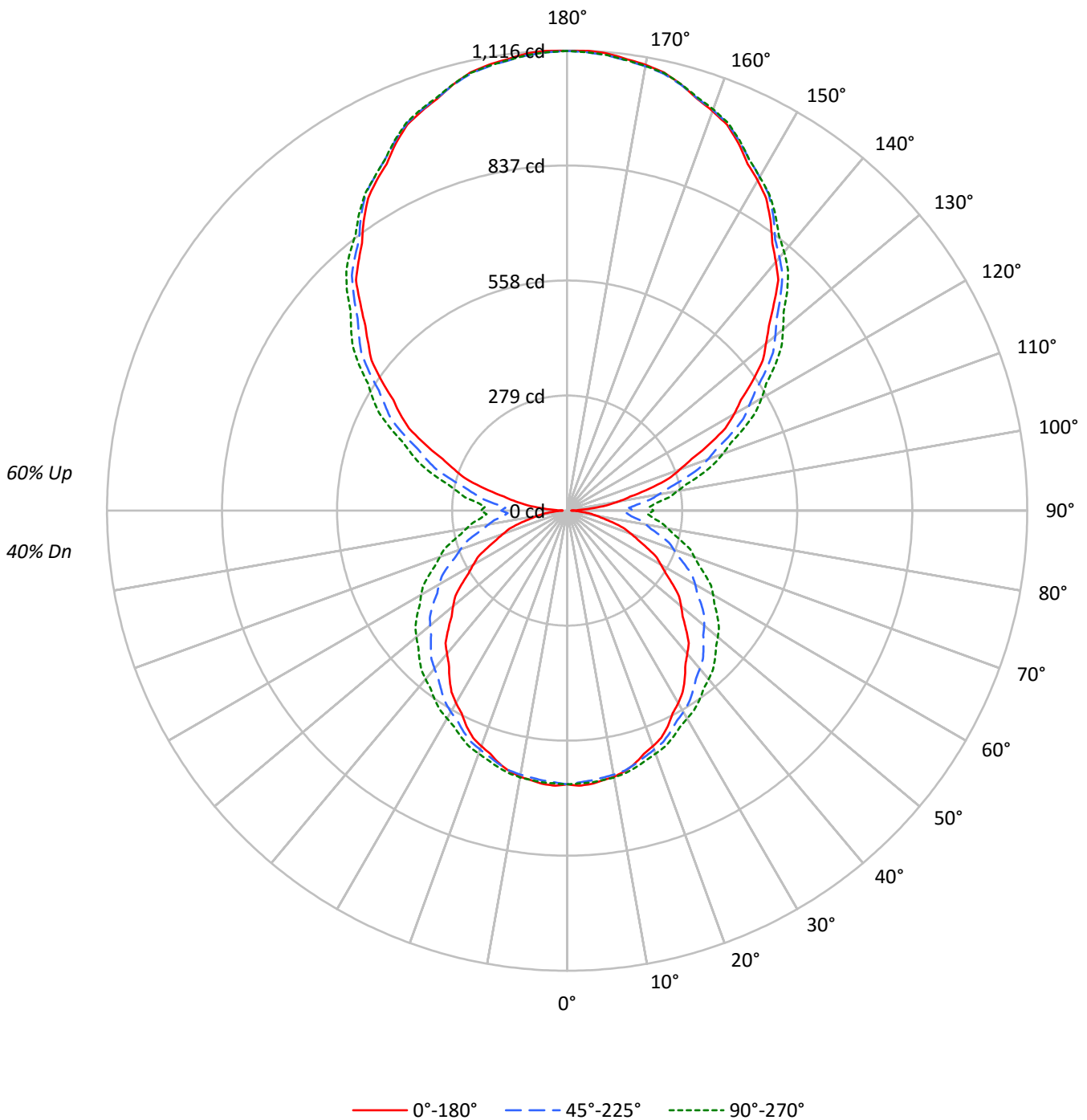
Input Watts (W): 52  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P331361-830

CATALOG NUMBER: S122DIP-S675D925U830-4F0-1E-UDD-D1

### Luminous Intensity Polar Plot





TEST NUMBER: P331361-830

CATALOG NUMBER: S122DIP-S675D925U830-4F0-1E-UDD-D1

**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 | 95 | 95 | 95 | 95 | 78 | 78 | 78 | 62 | 62 | 62 | 47 | 47 | 47 | 40 |
| 1   | 94  | 90  | 85  | 81  | 85 | 81 | 78 | 74 | 66 | 64 | 61 | 52 | 50 | 49 | 39 | 38 | 37 | 31 |
| 2   | 85  | 77  | 71  | 65  | 77 | 70 | 65 | 60 | 57 | 53 | 50 | 45 | 42 | 40 | 34 | 32 | 30 | 25 |
| 3   | 78  | 68  | 60  | 54  | 70 | 62 | 55 | 50 | 50 | 45 | 41 | 40 | 36 | 33 | 30 | 27 | 25 | 21 |
| 4   | 71  | 60  | 51  | 45  | 64 | 54 | 47 | 42 | 44 | 39 | 35 | 35 | 31 | 28 | 26 | 24 | 21 | 17 |
| 5   | 65  | 53  | 45  | 38  | 58 | 48 | 41 | 35 | 39 | 34 | 30 | 31 | 27 | 24 | 24 | 21 | 18 | 15 |
| 6   | 59  | 47  | 39  | 33  | 54 | 43 | 36 | 31 | 35 | 30 | 26 | 28 | 24 | 21 | 21 | 18 | 16 | 13 |
| 7   | 55  | 42  | 34  | 29  | 50 | 39 | 32 | 27 | 32 | 26 | 22 | 25 | 21 | 18 | 19 | 16 | 14 | 11 |
| 8   | 51  | 38  | 31  | 25  | 46 | 35 | 28 | 23 | 29 | 24 | 20 | 23 | 19 | 16 | 18 | 15 | 13 | 10 |
| 9   | 47  | 35  | 27  | 22  | 43 | 32 | 25 | 21 | 26 | 21 | 18 | 21 | 17 | 14 | 16 | 13 | 11 | 9  |
| 10  | 44  | 32  | 25  | 20  | 40 | 29 | 23 | 18 | 24 | 19 | 16 | 20 | 16 | 13 | 15 | 12 | 10 | 8  |

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

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 10719 | 10719 | 10719 |
| 5°  | 10771 | 10318 | 10278 |
| 10° | 10704 | 10013 | 9900  |
| 15° | 10557 | 9691  | 9503  |
| 20° | 10370 | 9345  | 9120  |
| 25° | 10186 | 9011  | 8772  |
| 30° | 9928  | 8668  | 8421  |
| 35° | 9665  | 8338  | 8176  |
| 40° | 9388  | 8055  | 7929  |
| 45° | 9124  | 7803  | 7719  |
| 50° | 8843  | 7574  | 7511  |
| 55° | 8548  | 7331  | 7300  |
| 60° | 8188  | 7076  | 7078  |
| 65° | 7811  | 6777  | 6812  |
| 70° | 7390  | 6457  | 6525  |
| 75° | 6853  | 6143  | 6262  |
| 80° | 6004  | 5822  | 5995  |
| 85° | 5192  | 5544  | 5785  |



TEST NUMBER: P331361-830

CATALOG NUMBER: S122DIP-S675D925U830-4F0-1E-UDD-D1

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 62.9   | 1.1       |
| 10°-20°   | 180.4  | 3.2       |
| 20°-30°   | 273.4  | 4.8       |
| 30°-40°   | 333.0  | 5.9       |
| 40°-50°   | 358.2  | 6.3       |
| 50°-60°   | 347.9  | 6.2       |
| 60°-70°   | 303.7  | 5.4       |
| 70°-80°   | 233.8  | 4.1       |
| 80°-90°   | 161.4  | 2.9       |
| 90°-100°  | 178.7  | 3.2       |
| 100°-110° | 298.3  | 5.3       |
| 110°-120° | 427.1  | 7.6       |
| 120°-130° | 522.2  | 9.2       |
| 130°-140° | 565.6  | 10.0      |
| 140°-150° | 544.8  | 9.6       |
| 150°-160° | 455.2  | 8.1       |
| 160°-170° | 301.9  | 5.3       |
| 170°-180° | 105.5  | 1.9       |
| 0°-30°    | 516.7  | 9.1       |
| 0°-40°    | 849.6  | 15.0      |
| 0°-60°    | 1555.7 | 27.5      |
| 0°-90°    | 2254.7 | 39.9      |
| 90°-120°  | 904.2  | 16.0      |
| 90°-150°  | 2536.8 | 44.9      |
| 90°-180°  | 3399.0 | 60.1      |
| 0°-180°   | 5654.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 664  | 664   | 664  | 664   | 664  |      |
| 5°   | 666  | 663   | 657  | 663   | 662  | 63   |
| 15°  | 635  | 637   | 637  | 645   | 645  | 179  |
| 25°  | 577  | 584   | 593  | 604   | 607  | 265  |
| 35°  | 498  | 514   | 532  | 552   | 560  | 311  |
| 45°  | 408  | 434   | 468  | 496   | 507  | 315  |
| 55°  | 313  | 348   | 397  | 431   | 444  | 279  |
| 65°  | 214  | 261   | 318  | 356   | 370  | 212  |
| 75°  | 118  | 173   | 234  | 274   | 288  | 125  |
| 85°  | 35   | 94    | 156  | 195   | 210  | 37   |
| 90°  | 11   | 78    | 160  | 195   | 209  | 9    |
| 95°  | 57   | 112   | 171  | 206   | 217  | 62   |
| 105° | 207  | 239   | 290  | 324   | 336  | 219  |
| 115° | 380  | 398   | 438  | 465   | 473  | 376  |
| 125° | 549  | 559   | 586  | 608   | 617  | 491  |
| 135° | 709  | 720   | 731  | 750   | 755  | 548  |
| 145° | 860  | 866   | 872  | 878   | 880  | 537  |
| 155° | 983  | 986   | 988  | 993   | 990  | 452  |
| 165° | 1070 | 1069  | 1069 | 1074  | 1070 | 301  |
| 175° | 1113 | 1110  | 1108 | 1114  | 1109 | 106  |
| 180° | 1115 | 1115  | 1115 | 1115  | 1115 |      |



TEST NUMBER: P331361-830

CATALOG NUMBER: S122DIP-S675D925U830-4F0-1E-UDD-D1

**CANDELA DISTRIBUTION (FULL):**

|        | 0°    | 5°    | 10°   | 15°   | 20°   | 25°   | 30°   | 35°   | 40°   | 45°   | 50°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°     | 663.9 | 663.9 | 663.9 | 663.9 | 663.9 | 663.9 | 663.9 | 663.9 | 663.9 | 663.9 | 663.9 |
| 2.5°   | 667.8 | 667.2 | 666.8 | 666.2 | 665.7 | 664.9 | 663.6 | 662.4 | 661.3 | 660.1 | 660.9 |
| 5°     | 665.8 | 665.2 | 664.6 | 663.9 | 663.3 | 662.3 | 661.0 | 659.8 | 658.5 | 657.1 | 658.5 |
| 7.5°   | 659.9 | 659.4 | 659.0 | 658.6 | 658.2 | 657.4 | 656.5 | 655.4 | 654.5 | 653.6 | 655.1 |
| 10°    | 655.3 | 654.8 | 654.4 | 653.9 | 653.6 | 653.0 | 652.3 | 651.8 | 651.1 | 650.4 | 652.1 |
| 12.5°  | 647.5 | 647.6 | 647.7 | 647.8 | 647.9 | 647.7 | 647.2 | 646.8 | 646.3 | 645.8 | 647.5 |
| 15°    | 635.1 | 635.5 | 635.9 | 636.3 | 636.8 | 637.0 | 637.0 | 637.0 | 637.0 | 637.0 | 638.9 |
| 17.5°  | 618.9 | 619.8 | 620.7 | 621.6 | 622.5 | 623.3 | 624.0 | 624.6 | 625.3 | 626.0 | 628.0 |
| 20°    | 608.1 | 609.2 | 610.2 | 611.3 | 612.4 | 613.3 | 614.2 | 615.1 | 616.0 | 616.8 | 619.2 |
| 22.5°  | 596.5 | 597.8 | 599.1 | 600.3 | 601.5 | 602.8 | 604.0 | 605.1 | 606.3 | 607.6 | 609.9 |
| 25°    | 577.3 | 578.8 | 580.3 | 581.8 | 583.3 | 585.0 | 586.9 | 588.9 | 590.8 | 592.7 | 595.3 |
| 27.5°  | 554.2 | 556.7 | 559.1 | 561.6 | 564.0 | 566.4 | 568.6 | 570.9 | 573.2 | 575.4 | 578.6 |
| 30°    | 538.9 | 541.6 | 544.4 | 547.1 | 550.0 | 552.7 | 555.5 | 558.3 | 561.1 | 563.8 | 567.2 |
| 32.5°  | 521.9 | 525.0 | 528.1 | 531.2 | 534.4 | 537.6 | 540.9 | 544.1 | 547.4 | 550.7 | 554.7 |
| 35°    | 497.5 | 501.1 | 504.7 | 508.3 | 512.0 | 515.9 | 519.9 | 524.0 | 528.0 | 532.1 | 536.8 |
| 37.5°  | 470.9 | 475.1 | 479.3 | 483.4 | 487.7 | 492.4 | 497.7 | 502.9 | 508.1 | 513.4 | 518.7 |
| 40°    | 453.2 | 457.9 | 462.6 | 467.3 | 472.0 | 477.2 | 483.1 | 488.8 | 494.6 | 500.3 | 505.9 |
| 42.5°  | 436.3 | 440.9 | 445.6 | 450.3 | 455.1 | 460.7 | 467.4 | 474.0 | 480.6 | 487.3 | 493.3 |
| 45°    | 407.9 | 413.8 | 419.5 | 425.3 | 431.0 | 437.7 | 445.2 | 452.7 | 460.1 | 467.6 | 474.3 |
| 47.5°  | 380.0 | 386.3 | 392.7 | 398.9 | 405.2 | 412.7 | 421.5 | 430.3 | 439.0 | 447.8 | 454.8 |
| 50°    | 360.8 | 367.5 | 374.1 | 380.7 | 387.3 | 395.5 | 405.1 | 414.7 | 424.3 | 433.9 | 441.2 |
| 52.5°  | 342.3 | 349.3 | 356.3 | 363.3 | 370.2 | 378.8 | 388.9 | 399.1 | 409.2 | 419.3 | 426.8 |
| 55°    | 312.7 | 320.4 | 328.1 | 335.8 | 343.5 | 352.9 | 364.0 | 375.1 | 386.3 | 397.4 | 405.1 |
| 57.5°  | 283.4 | 292.2 | 300.9 | 309.5 | 318.2 | 328.2 | 339.5 | 350.8 | 362.2 | 373.5 | 381.8 |
| 60°    | 262.7 | 271.8 | 281.1 | 290.3 | 299.4 | 310.2 | 322.3 | 334.5 | 346.7 | 358.9 | 367.0 |
| 62.5°  | 244.2 | 253.7 | 263.3 | 272.8 | 282.4 | 293.2 | 305.4 | 317.5 | 329.8 | 342.0 | 350.6 |
| 65°    | 213.6 | 224.0 | 234.6 | 245.1 | 255.5 | 267.0 | 279.7 | 292.3 | 304.9 | 317.5 | 326.3 |
| 67.5°  | 185.5 | 196.4 | 207.5 | 218.4 | 229.3 | 241.2 | 254.1 | 267.0 | 279.9 | 292.8 | 301.7 |
| 70°    | 165.5 | 176.6 | 187.8 | 198.9 | 210.0 | 222.2 | 235.4 | 248.6 | 261.9 | 275.2 | 284.4 |
| 72.5°  | 147.0 | 158.4 | 169.9 | 181.4 | 192.8 | 205.3 | 218.8 | 232.1 | 245.6 | 259.0 | 268.1 |
| 75°    | 118.4 | 130.4 | 142.3 | 154.3 | 166.3 | 179.1 | 192.7 | 206.4 | 220.1 | 233.8 | 243.0 |
| 77.5°  | 90.7  | 103.2 | 115.7 | 128.2 | 140.7 | 154.0 | 167.9 | 181.8 | 195.7 | 209.5 | 218.8 |
| 80°    | 72.2  | 85.2  | 98.2  | 111.3 | 124.3 | 137.8 | 151.7 | 165.6 | 179.5 | 193.4 | 202.4 |
| 82.5°  | 56.7  | 69.7  | 82.5  | 95.4  | 108.3 | 121.7 | 135.8 | 149.9 | 163.9 | 178.0 | 187.0 |
| 85°    | 34.7  | 47.9  | 61.2  | 74.4  | 87.7  | 101.1 | 114.8 | 128.5 | 142.2 | 155.9 | 164.9 |
| 87.5°  | 19.0  | 32.3  | 45.5  | 58.8  | 72.0  | 86.0  | 100.6 | 115.2 | 129.8 | 144.4 | 153.0 |
| 90°    | 10.6  | 25.4  | 40.3  | 55.3  | 70.2  | 86.8  | 105.1 | 123.4 | 141.7 | 159.9 | 168.1 |
| 92.5°  | 25.6  | 39.0  | 52.4  | 65.8  | 79.2  | 92.9  | 107.3 | 121.5 | 135.7 | 150.0 | 158.4 |
| 95°    | 56.6  | 68.7  | 80.9  | 93.0  | 105.2 | 117.8 | 131.1 | 144.4 | 157.6 | 170.9 | 179.0 |
| 97.5°  | 96.1  | 106.9 | 117.6 | 128.5 | 139.2 | 151.2 | 164.3 | 177.4 | 190.5 | 203.6 | 211.5 |
| 100°   | 126.2 | 135.8 | 145.3 | 155.0 | 164.6 | 175.6 | 188.2 | 200.9 | 213.4 | 226.0 | 233.9 |
| 102.5° | 157.0 | 165.6 | 174.2 | 182.8 | 191.2 | 201.8 | 214.2 | 226.7 | 239.0 | 251.5 | 259.4 |
| 105°   | 207.1 | 213.9 | 220.7 | 227.5 | 234.3 | 243.6 | 255.1 | 266.6 | 278.1 | 289.6 | 297.6 |
| 107.5° | 258.4 | 264.3 | 270.1 | 276.1 | 281.9 | 290.2 | 300.9 | 311.5 | 322.2 | 332.8 | 340.2 |
| 110°   | 290.8 | 296.2 | 301.8 | 307.4 | 312.8 | 320.8 | 331.3 | 341.9 | 352.3 | 362.8 | 369.6 |



TEST NUMBER: P331361-830

CATALOG NUMBER: S122DIP-S675D925U830-4F0-1E-UDD-D1

**CANDELA DISTRIBUTION (continued):**

|        | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 326.9  | 331.7  | 336.6  | 341.4  | 346.2  | 353.5  | 363.4  | 373.2  | 383.0  | 392.8  | 399.1  |
| 115°   | 380.1  | 383.7  | 387.3  | 390.9  | 394.5  | 401.0  | 410.1  | 419.3  | 428.6  | 437.7  | 443.9  |
| 117.5° | 432.2  | 435.4  | 438.6  | 441.9  | 445.1  | 450.5  | 458.3  | 466.0  | 473.6  | 481.4  | 487.2  |
| 120°   | 467.6  | 470.0  | 472.6  | 475.1  | 477.7  | 482.4  | 489.3  | 496.2  | 503.0  | 509.9  | 515.9  |
| 122.5° | 499.9  | 502.3  | 504.6  | 507.0  | 509.3  | 513.9  | 520.8  | 527.6  | 534.5  | 541.4  | 546.7  |
| 125°   | 549.3  | 551.2  | 553.1  | 555.0  | 556.9  | 560.9  | 567.1  | 573.3  | 579.6  | 585.8  | 591.0  |
| 127.5° | 598.4  | 600.6  | 602.8  | 604.9  | 607.1  | 610.6  | 615.4  | 620.1  | 624.9  | 629.6  | 634.2  |
| 130°   | 629.3  | 631.8  | 634.3  | 636.8  | 639.3  | 642.6  | 646.7  | 650.7  | 654.9  | 658.9  | 663.6  |
| 132.5° | 663.9  | 665.9  | 667.9  | 670.0  | 671.9  | 674.7  | 678.3  | 681.8  | 685.3  | 688.9  | 693.0  |
| 135°   | 709.3  | 711.5  | 713.9  | 716.1  | 718.4  | 720.9  | 723.4  | 725.9  | 728.5  | 731.1  | 735.4  |
| 137.5° | 758.0  | 759.8  | 761.7  | 763.5  | 765.3  | 766.9  | 768.5  | 770.0  | 771.5  | 772.9  | 776.7  |
| 140°   | 787.3  | 789.0  | 790.6  | 792.3  | 794.0  | 795.6  | 797.0  | 798.5  | 799.9  | 801.4  | 804.8  |
| 142.5° | 817.4  | 819.1  | 820.8  | 822.5  | 824.1  | 825.3  | 826.1  | 826.9  | 827.7  | 828.5  | 831.4  |
| 145°   | 859.7  | 861.2  | 862.6  | 864.1  | 865.5  | 867.0  | 868.2  | 869.4  | 870.7  | 871.9  | 873.5  |
| 147.5° | 898.2  | 900.0  | 901.8  | 903.5  | 905.3  | 906.6  | 907.5  | 908.2  | 909.1  | 909.9  | 910.6  |
| 150°   | 924.6  | 925.9  | 927.1  | 928.4  | 929.6  | 930.7  | 931.5  | 932.4  | 933.2  | 934.1  | 934.6  |
| 152.5° | 947.9  | 949.2  | 950.5  | 951.7  | 953.0  | 954.1  | 955.1  | 956.1  | 957.1  | 958.1  | 958.9  |
| 155°   | 983.0  | 983.5  | 984.2  | 984.9  | 985.4  | 986.1  | 986.7  | 987.3  | 988.0  | 988.5  | 989.7  |
| 157.5° | 1012.9 | 1013.2 | 1013.7 | 1014.1 | 1014.6 | 1014.9 | 1015.3 | 1015.7 | 1016.1 | 1016.4 | 1017.9 |
| 160°   | 1031.0 | 1031.3 | 1031.7 | 1032.2 | 1032.6 | 1032.9 | 1033.1 | 1033.3 | 1033.5 | 1033.7 | 1035.0 |
| 162.5° | 1047.4 | 1047.5 | 1047.6 | 1047.7 | 1047.8 | 1047.9 | 1048.2 | 1048.4 | 1048.6 | 1048.8 | 1050.2 |
| 165°   | 1069.5 | 1069.3 | 1069.0 | 1068.8 | 1068.7 | 1068.6 | 1068.6 | 1068.6 | 1068.6 | 1068.6 | 1070.0 |
| 167.5° | 1087.9 | 1087.3 | 1086.7 | 1086.0 | 1085.4 | 1085.1 | 1085.1 | 1085.0 | 1085.0 | 1084.9 | 1086.4 |
| 170°   | 1097.7 | 1097.0 | 1096.5 | 1095.8 | 1095.1 | 1094.8 | 1094.6 | 1094.4 | 1094.1 | 1093.9 | 1095.4 |
| 172.5° | 1104.5 | 1103.8 | 1103.2 | 1102.6 | 1101.9 | 1101.5 | 1101.4 | 1101.1 | 1100.9 | 1100.7 | 1102.2 |
| 175°   | 1112.8 | 1112.1 | 1111.4 | 1110.9 | 1110.2 | 1109.7 | 1109.3 | 1108.9 | 1108.4 | 1108.1 | 1109.5 |
| 177.5° | 1116.2 | 1115.6 | 1115.1 | 1114.7 | 1114.1 | 1113.7 | 1113.3 | 1113.0 | 1112.7 | 1112.4 | 1113.3 |
| 180°   | 1114.7 | 1114.7 | 1114.7 | 1114.7 | 1114.7 | 1114.7 | 1114.7 | 1114.7 | 1114.7 | 1114.7 | 1114.7 |



TEST NUMBER: P331361-830

CATALOG NUMBER: S122DIP-S675D925U830-4F0-1E-UDD-D1

**CANDELA DISTRIBUTION (continued):**

|        | 55°   | 60°   | 65°   | 70°   | 75°   | 80°   | 85°   | 90°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°     | 663.9 | 663.9 | 663.9 | 663.9 | 663.9 | 663.9 | 663.9 | 663.9 |
| 2.5°   | 661.8 | 662.6 | 663.5 | 663.7 | 663.4 | 663.1 | 662.7 | 662.4 |
| 5°     | 659.8 | 661.0 | 662.3 | 662.9 | 662.6 | 662.4 | 662.2 | 661.9 |
| 7.5°   | 656.6 | 658.2 | 659.7 | 660.3 | 660.2 | 659.9 | 659.7 | 659.5 |
| 10°    | 653.8 | 655.5 | 657.3 | 658.0 | 657.8 | 657.6 | 657.4 | 657.1 |
| 12.5°  | 649.2 | 650.9 | 652.7 | 653.4 | 653.2 | 653.0 | 652.8 | 652.5 |
| 15°    | 640.8 | 642.7 | 644.7 | 645.5 | 645.4 | 645.1 | 644.9 | 644.7 |
| 17.5°  | 630.0 | 632.1 | 634.0 | 635.1 | 635.1 | 635.1 | 635.1 | 635.1 |
| 20°    | 621.5 | 623.9 | 626.1 | 627.4 | 627.4 | 627.4 | 627.4 | 627.4 |
| 22.5°  | 612.3 | 614.6 | 616.9 | 618.3 | 618.6 | 619.0 | 619.3 | 619.6 |
| 25°    | 597.9 | 600.4 | 602.9 | 604.5 | 605.2 | 605.9 | 606.5 | 607.2 |
| 27.5°  | 581.9 | 585.1 | 588.4 | 590.2 | 590.7 | 591.2 | 591.6 | 592.1 |
| 30°    | 570.7 | 574.1 | 577.5 | 579.6 | 580.2 | 580.9 | 581.5 | 582.1 |
| 32.5°  | 558.6 | 562.6 | 566.5 | 569.0 | 570.2 | 571.4 | 572.5 | 573.6 |
| 35°    | 541.5 | 546.2 | 550.9 | 554.0 | 555.5 | 557.0 | 558.5 | 560.0 |
| 37.5°  | 523.9 | 529.0 | 534.3 | 537.7 | 539.3 | 540.8 | 542.4 | 544.0 |
| 40°    | 511.4 | 517.0 | 522.5 | 526.3 | 528.2 | 530.2 | 532.1 | 534.0 |
| 42.5°  | 499.4 | 505.5 | 511.5 | 515.6 | 517.5 | 519.4 | 521.3 | 523.2 |
| 45°    | 480.9 | 487.5 | 494.2 | 498.5 | 500.7 | 502.8 | 504.9 | 507.1 |
| 47.5°  | 461.7 | 468.6 | 475.5 | 480.1 | 482.5 | 484.8 | 487.2 | 489.6 |
| 50°    | 448.5 | 455.7 | 463.1 | 467.9 | 470.2 | 472.6 | 474.9 | 477.2 |
| 52.5°  | 434.2 | 441.7 | 449.1 | 454.1 | 456.6 | 459.1 | 461.7 | 464.2 |
| 55°    | 412.7 | 420.5 | 428.2 | 433.4 | 436.2 | 438.9 | 441.8 | 444.5 |
| 57.5°  | 390.1 | 398.4 | 406.7 | 412.3 | 415.1 | 417.9 | 420.8 | 423.6 |
| 60°    | 375.1 | 383.2 | 391.4 | 397.0 | 399.9 | 402.9 | 406.0 | 409.0 |
| 62.5°  | 359.2 | 367.9 | 376.5 | 382.3 | 385.0 | 387.9 | 390.7 | 393.5 |
| 65°    | 335.1 | 343.8 | 352.6 | 358.4 | 361.2 | 363.9 | 366.7 | 369.5 |
| 67.5°  | 310.6 | 319.4 | 328.3 | 334.2 | 337.1 | 340.0 | 342.9 | 345.8 |
| 70°    | 293.6 | 302.7 | 312.0 | 317.8 | 320.4 | 323.0 | 325.6 | 328.1 |
| 72.5°  | 277.1 | 286.1 | 295.1 | 301.1 | 304.3 | 307.4 | 310.4 | 313.5 |
| 75°    | 252.2 | 261.4 | 270.6 | 276.5 | 279.4 | 282.1 | 284.9 | 287.7 |
| 77.5°  | 227.9 | 237.0 | 246.2 | 252.2 | 255.2 | 258.3 | 261.2 | 264.2 |
| 80°    | 211.3 | 220.4 | 229.3 | 235.4 | 238.3 | 241.3 | 244.3 | 247.3 |
| 82.5°  | 196.0 | 204.9 | 214.0 | 219.8 | 222.6 | 225.5 | 228.3 | 231.1 |
| 85°    | 173.8 | 182.9 | 191.8 | 197.7 | 200.8 | 203.8 | 206.8 | 209.7 |
| 87.5°  | 161.6 | 170.3 | 178.9 | 184.6 | 187.4 | 190.2 | 192.9 | 195.8 |
| 90°    | 176.2 | 184.4 | 192.5 | 197.9 | 200.7 | 203.5 | 206.2 | 209.1 |
| 92.5°  | 166.9 | 175.4 | 183.9 | 189.4 | 192.0 | 194.6 | 197.2 | 199.8 |
| 95°    | 187.1 | 195.2 | 203.3 | 208.5 | 210.7 | 212.8 | 214.9 | 217.1 |
| 97.5°  | 219.4 | 227.3 | 235.3 | 240.4 | 242.9 | 245.4 | 247.9 | 250.3 |
| 100°   | 241.9 | 249.8 | 257.7 | 262.7 | 264.9 | 267.0 | 269.1 | 271.3 |
| 102.5° | 267.3 | 275.2 | 283.1 | 288.1 | 290.3 | 292.5 | 294.5 | 296.7 |
| 105°   | 305.5 | 313.4 | 321.3 | 326.4 | 328.8 | 331.1 | 333.5 | 335.8 |
| 107.5° | 347.5 | 354.9 | 362.2 | 366.6 | 368.0 | 369.3 | 370.7 | 372.1 |
| 110°   | 376.5 | 383.3 | 390.1 | 394.5 | 396.2 | 397.8 | 399.6 | 401.3 |





TEST NUMBER: P331361-830

CATALOG NUMBER: S122DIP-S675D925U830-4F0-1E-UDD-D1

**CANDELA DISTRIBUTION (continued):**

|        | 55°    | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 405.4  | 411.8  | 418.1  | 422.3  | 424.1  | 426.0  | 427.9  | 429.8  |
| 115°   | 450.2  | 456.4  | 462.6  | 466.6  | 468.3  | 470.0  | 471.7  | 473.4  |
| 117.5° | 493.0  | 498.9  | 504.7  | 508.4  | 509.9  | 511.5  | 513.0  | 514.6  |
| 120°   | 521.9  | 527.8  | 533.9  | 537.7  | 539.4  | 541.1  | 542.9  | 544.6  |
| 122.5° | 552.0  | 557.3  | 562.6  | 566.1  | 567.6  | 569.2  | 570.7  | 572.3  |
| 125°   | 596.1  | 601.2  | 606.3  | 609.8  | 611.5  | 613.2  | 614.9  | 616.7  |
| 127.5° | 638.8  | 643.3  | 647.9  | 650.7  | 652.0  | 653.2  | 654.4  | 655.6  |
| 130°   | 668.4  | 673.1  | 677.8  | 680.5  | 681.5  | 682.3  | 683.2  | 684.0  |
| 132.5° | 697.0  | 701.1  | 705.0  | 707.6  | 708.6  | 709.7  | 710.8  | 711.8  |
| 135°   | 739.6  | 743.9  | 748.2  | 750.9  | 752.0  | 753.1  | 754.1  | 755.3  |
| 137.5° | 780.4  | 784.2  | 788.0  | 790.1  | 790.8  | 791.5  | 792.0  | 792.7  |
| 140°   | 808.3  | 811.7  | 815.1  | 817.1  | 817.5  | 817.9  | 818.4  | 818.9  |
| 142.5° | 834.3  | 837.2  | 840.1  | 841.7  | 842.0  | 842.3  | 842.5  | 842.8  |
| 145°   | 875.0  | 876.5  | 877.9  | 878.7  | 879.0  | 879.2  | 879.5  | 879.7  |
| 147.5° | 911.3  | 911.8  | 912.5  | 912.7  | 912.4  | 912.1  | 911.8  | 911.5  |
| 150°   | 935.3  | 935.9  | 936.5  | 936.5  | 935.9  | 935.3  | 934.6  | 934.1  |
| 152.5° | 959.7  | 960.5  | 961.3  | 961.3  | 960.5  | 959.7  | 958.9  | 958.1  |
| 155°   | 990.7  | 991.7  | 992.8  | 993.0  | 992.3  | 991.7  | 991.1  | 990.4  |
| 157.5° | 1019.3 | 1020.7 | 1022.1 | 1022.3 | 1021.3 | 1020.3 | 1019.3 | 1018.3 |
| 160°   | 1036.2 | 1037.5 | 1038.8 | 1039.0 | 1038.1 | 1037.3 | 1036.4 | 1035.6 |
| 162.5° | 1051.6 | 1053.0 | 1054.4 | 1054.7 | 1053.7 | 1052.6 | 1051.7 | 1050.7 |
| 165°   | 1071.5 | 1072.9 | 1074.4 | 1074.6 | 1073.6 | 1072.5 | 1071.5 | 1070.4 |
| 167.5° | 1087.8 | 1089.3 | 1090.7 | 1090.9 | 1089.9 | 1088.7 | 1087.7 | 1086.6 |
| 170°   | 1096.8 | 1098.3 | 1099.8 | 1099.9 | 1098.6 | 1097.4 | 1096.1 | 1094.9 |
| 172.5° | 1103.6 | 1105.1 | 1106.5 | 1106.6 | 1105.4 | 1104.2 | 1102.9 | 1101.6 |
| 175°   | 1111.0 | 1112.4 | 1113.9 | 1114.0 | 1112.8 | 1111.4 | 1110.2 | 1109.0 |
| 177.5° | 1114.4 | 1115.4 | 1116.3 | 1116.3 | 1115.4 | 1114.4 | 1113.3 | 1112.4 |
| 180°   | 1114.7 | 1114.7 | 1114.7 | 1114.7 | 1114.7 | 1114.7 | 1114.7 | 1114.7 |

(END OF REPORT)