

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: P332759-830

Luminaire Tested: **S124DIW-S575D1050U830-4F0-1E-UDD-D**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P332759-830  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-6,  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: S124DIW-S575D1050U830-4F0-1E-UDD-D  
Description: DEFINE 4 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE  
DOWNLIGHT 575 LUMENS PER FOOT, DROP SATIN WHITE DIFFUSER  
UPLIGHT 1050 LUMENS PER FOOT, NO LENS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6185.8 lumens  
Efficiency: N/A  
Efficacy: 136.9 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-Indirect

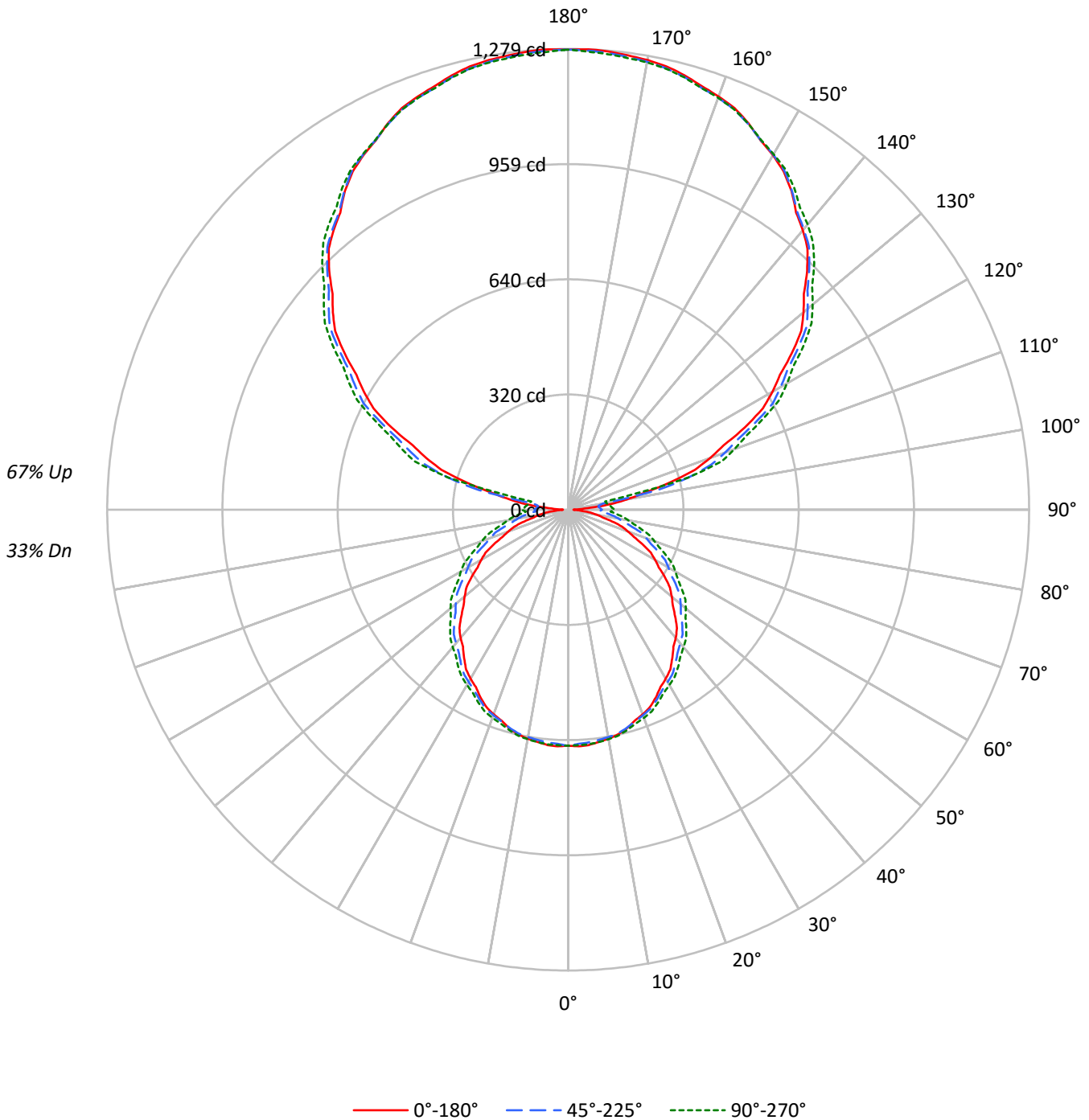
Input Watts (W): 45.2  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P332759-830

CATALOG NUMBER: S124DIW-S575D1050U830-4F0-1E-UDD-D

### Luminous Intensity Polar Plot





TEST NUMBER: P332759-830

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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   | 103 | 103 | 103 | 103 | 93 | 93 | 93 | 93 | 74 | 74 | 74 | 57 | 57 | 57 | 41 | 41 | 41 | 33 |
| 1   | 93  | 89  | 85  | 81  | 84 | 80 | 77 | 74 | 64 | 61 | 59 | 49 | 47 | 46 | 35 | 34 | 33 | 27 |
| 2   | 85  | 77  | 71  | 66  | 76 | 70 | 64 | 60 | 55 | 52 | 48 | 42 | 40 | 38 | 30 | 29 | 27 | 22 |
| 3   | 77  | 68  | 60  | 54  | 69 | 61 | 55 | 50 | 49 | 44 | 40 | 37 | 34 | 31 | 27 | 25 | 23 | 18 |
| 4   | 70  | 60  | 52  | 46  | 63 | 54 | 47 | 42 | 43 | 38 | 34 | 33 | 30 | 27 | 24 | 21 | 20 | 15 |
| 5   | 64  | 53  | 45  | 39  | 58 | 48 | 41 | 36 | 38 | 33 | 29 | 29 | 26 | 23 | 21 | 19 | 17 | 13 |
| 6   | 59  | 47  | 39  | 33  | 53 | 43 | 36 | 31 | 34 | 29 | 25 | 27 | 23 | 20 | 19 | 17 | 15 | 11 |
| 7   | 55  | 42  | 35  | 29  | 49 | 38 | 32 | 27 | 31 | 26 | 22 | 24 | 20 | 17 | 17 | 15 | 13 | 10 |
| 8   | 51  | 38  | 31  | 25  | 45 | 35 | 28 | 23 | 28 | 23 | 19 | 22 | 18 | 15 | 16 | 13 | 12 | 9  |
| 9   | 47  | 35  | 27  | 22  | 42 | 32 | 25 | 21 | 26 | 21 | 17 | 20 | 16 | 14 | 15 | 12 | 10 | 8  |
| 10  | 44  | 32  | 25  | 20  | 39 | 29 | 23 | 18 | 24 | 19 | 15 | 18 | 15 | 12 | 14 | 11 | 9  | 7  |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 5288 | 5288 | 5288 |
| 5°  | 5304 | 5168 | 5182 |
| 10° | 5272 | 5083 | 5079 |
| 15° | 5225 | 4985 | 4958 |
| 20° | 5153 | 4877 | 4840 |
| 25° | 5073 | 4756 | 4710 |
| 30° | 4986 | 4636 | 4576 |
| 35° | 4887 | 4512 | 4460 |
| 40° | 4809 | 4395 | 4338 |
| 45° | 4692 | 4287 | 4233 |
| 50° | 4593 | 4163 | 4123 |
| 55° | 4491 | 4045 | 3993 |
| 60° | 4332 | 3894 | 3876 |
| 65° | 4156 | 3735 | 3731 |
| 70° | 3945 | 3551 | 3561 |
| 75° | 3649 | 3349 | 3408 |
| 80° | 3322 | 3156 | 3259 |
| 85° | 2903 | 2980 | 3172 |



TEST NUMBER: P332759-830

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 62.0   | 1.0       |
| 10°-20°   | 177.7  | 2.9       |
| 20°-30°   | 268.7  | 4.3       |
| 30°-40°   | 325.1  | 5.3       |
| 40°-50°   | 343.7  | 5.6       |
| 50°-60°   | 323.5  | 5.2       |
| 60°-70°   | 268.4  | 4.3       |
| 70°-80°   | 188.5  | 3.0       |
| 80°-90°   | 110.3  | 1.8       |
| 90°-100°  | 106.9  | 1.7       |
| 100°-110° | 325.3  | 5.3       |
| 110°-120° | 564.1  | 9.1       |
| 120°-130° | 693.9  | 11.2      |
| 130°-140° | 731.1  | 11.8      |
| 140°-150° | 678.0  | 11.0      |
| 150°-160° | 545.6  | 8.8       |
| 160°-170° | 351.9  | 5.7       |
| 170°-180° | 121.3  | 2.0       |
| 0°-30°    | 508.4  | 8.2       |
| 0°-40°    | 833.5  | 13.5      |
| 0°-60°    | 1500.7 | 24.3      |
| 0°-90°    | 2067.8 | 33.4      |
| 90°-120°  | 996.3  | 16.1      |
| 90°-150°  | 3099.3 | 50.1      |
| 90°-180°  | 4118.0 | 66.6      |
| 0°-180°   | 6185.8 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 655  | 655   | 655  | 655   | 655  |      |
| 5°   | 656  | 653   | 648  | 654   | 654  | 62   |
| 15°  | 629  | 629   | 627  | 633   | 633  | 177  |
| 25°  | 575  | 579   | 582  | 589   | 590  | 265  |
| 35°  | 503  | 512   | 519  | 529   | 532  | 315  |
| 45°  | 420  | 433   | 447  | 459   | 464  | 324  |
| 55°  | 329  | 344   | 366  | 380   | 385  | 293  |
| 65°  | 227  | 251   | 276  | 293   | 300  | 225  |
| 75°  | 126  | 153   | 184  | 204   | 211  | 134  |
| 85°  | 39   | 70    | 103  | 124   | 132  | 41   |
| 90°  | 15   | 54    | 94   | 120   | 128  | 10   |
| 95°  | 62   | 56    | 85   | 109   | 118  | 75   |
| 105° | 294  | 315   | 346  | 370   | 345  | 308  |
| 115° | 541  | 551   | 573  | 590   | 596  | 533  |
| 125° | 757  | 761   | 777  | 793   | 799  | 676  |
| 135° | 937  | 937   | 945  | 959   | 965  | 722  |
| 145° | 1080 | 1082  | 1082 | 1087  | 1092 | 675  |
| 155° | 1183 | 1184  | 1181 | 1185  | 1182 | 545  |
| 165° | 1248 | 1244  | 1243 | 1250  | 1242 | 353  |
| 175° | 1277 | 1271  | 1272 | 1280  | 1269 | 122  |
| 180° | 1277 | 1277  | 1277 | 1277  | 1277 |      |



TEST NUMBER: P332759-830

CATALOG NUMBER: S124DIW-S575D1050U830-4F0-1E-UDD-D

**CANDELA DISTRIBUTION (FULL):**

|        | 0°    | 5°    | 10°   | 15°   | 20°   | 25°   | 30°   | 35°   | 40°   | 45°   | 50°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°     | 655.0 | 655.0 | 655.0 | 655.0 | 655.0 | 655.0 | 655.0 | 655.0 | 655.0 | 655.0 | 655.0 |
| 2.5°   | 657.3 | 657.0 | 656.6 | 656.1 | 655.7 | 655.1 | 654.0 | 653.0 | 651.9 | 650.8 | 651.8 |
| 5°     | 655.7 | 655.3 | 654.7 | 654.2 | 653.7 | 652.9 | 651.8 | 650.6 | 649.5 | 648.4 | 649.7 |
| 7.5°   | 650.2 | 649.8 | 649.5 | 649.2 | 648.9 | 648.4 | 647.4 | 646.5 | 645.5 | 644.5 | 646.0 |
| 10°    | 645.5 | 645.3 | 645.1 | 645.0 | 644.8 | 644.3 | 643.5 | 642.6 | 641.9 | 641.0 | 642.5 |
| 12.5°  | 638.9 | 638.9 | 638.9 | 638.9 | 638.9 | 638.6 | 638.0 | 637.4 | 636.9 | 636.3 | 637.6 |
| 15°    | 628.6 | 628.8 | 628.9 | 629.1 | 629.2 | 629.1 | 628.6 | 628.1 | 627.5 | 627.1 | 628.6 |
| 17.5°  | 614.3 | 614.8 | 615.3 | 615.8 | 616.3 | 616.5 | 616.4 | 616.3 | 616.2 | 616.1 | 617.6 |
| 20°    | 604.4 | 604.8 | 605.3 | 605.9 | 606.3 | 606.6 | 606.8 | 607.0 | 607.1 | 607.3 | 608.9 |
| 22.5°  | 593.2 | 593.8 | 594.5 | 595.0 | 595.7 | 596.2 | 596.4 | 596.7 | 597.0 | 597.3 | 599.0 |
| 25°    | 575.0 | 576.0 | 577.0 | 578.0 | 578.9 | 579.7 | 580.1 | 580.6 | 581.2 | 581.6 | 583.4 |
| 27.5°  | 554.8 | 556.2 | 557.6 | 559.1 | 560.5 | 561.6 | 562.3 | 563.1 | 563.8 | 564.6 | 566.3 |
| 30°    | 541.3 | 542.6 | 543.8 | 545.2 | 546.5 | 547.7 | 548.8 | 550.0 | 551.1 | 552.3 | 554.1 |
| 32.5°  | 526.6 | 528.2 | 529.7 | 531.3 | 532.9 | 534.3 | 535.6 | 536.9 | 538.1 | 539.4 | 541.4 |
| 35°    | 503.1 | 505.1 | 507.1 | 509.0 | 511.0 | 512.7 | 514.3 | 516.0 | 517.6 | 519.2 | 521.6 |
| 37.5°  | 479.6 | 481.7 | 484.0 | 486.3 | 488.5 | 490.7 | 492.7 | 494.7 | 496.7 | 498.7 | 501.1 |
| 40°    | 464.3 | 466.4 | 468.5 | 470.6 | 472.8 | 474.9 | 477.2 | 479.5 | 481.8 | 484.1 | 486.5 |
| 42.5°  | 446.7 | 449.0 | 451.4 | 453.8 | 456.2 | 458.7 | 461.4 | 464.0 | 466.7 | 469.4 | 472.1 |
| 45°    | 419.5 | 422.6 | 425.7 | 428.9 | 431.9 | 435.0 | 438.1 | 441.2 | 444.3 | 447.4 | 450.2 |
| 47.5°  | 393.6 | 396.7 | 399.9 | 403.1 | 406.3 | 409.7 | 413.3 | 416.9 | 420.5 | 424.0 | 427.0 |
| 50°    | 374.8 | 378.3 | 381.9 | 385.6 | 389.2 | 392.8 | 396.3 | 399.9 | 403.5 | 407.1 | 410.3 |
| 52.5°  | 356.0 | 359.6 | 363.2 | 366.7 | 370.3 | 374.2 | 378.3 | 382.4 | 386.5 | 390.6 | 393.9 |
| 55°    | 328.6 | 332.0 | 335.5 | 338.8 | 342.2 | 346.4 | 351.3 | 356.2 | 361.1 | 366.0 | 369.3 |
| 57.5°  | 297.9 | 302.2 | 306.4 | 310.7 | 314.9 | 319.4 | 324.2 | 329.1 | 334.0 | 338.8 | 342.7 |
| 60°    | 278.0 | 282.2 | 286.4 | 290.7 | 294.9 | 299.7 | 305.1 | 310.5 | 315.8 | 321.2 | 325.0 |
| 62.5°  | 258.6 | 263.3 | 267.9 | 272.5 | 277.1 | 282.1 | 287.5 | 292.8 | 298.3 | 303.7 | 307.4 |
| 65°    | 227.3 | 232.6 | 237.8 | 243.0 | 248.3 | 253.6 | 259.1 | 264.7 | 270.2 | 275.8 | 279.8 |
| 67.5°  | 197.3 | 202.8 | 208.4 | 214.0 | 219.4 | 225.2 | 231.1 | 237.0 | 243.0 | 248.9 | 253.1 |
| 70°    | 176.7 | 182.3 | 187.8 | 193.4 | 199.0 | 204.8 | 210.9 | 217.2 | 223.4 | 229.6 | 233.9 |
| 72.5°  | 156.8 | 162.5 | 168.1 | 173.8 | 179.5 | 185.6 | 192.2 | 198.8 | 205.4 | 212.0 | 216.2 |
| 75°    | 126.1 | 132.1 | 138.2 | 144.2 | 150.2 | 156.7 | 163.5 | 170.4 | 177.3 | 184.1 | 188.7 |
| 77.5°  | 97.6  | 104.0 | 110.4 | 116.7 | 123.1 | 129.9 | 137.0 | 144.2 | 151.4 | 158.5 | 163.2 |
| 80°    | 79.9  | 86.4  | 93.0  | 99.5  | 106.0 | 112.8 | 120.1 | 127.2 | 134.4 | 141.6 | 146.5 |
| 82.5°  | 62.3  | 69.1  | 75.9  | 82.7  | 89.4  | 96.4  | 103.6 | 110.7 | 117.9 | 125.2 | 130.2 |
| 85°    | 38.8  | 45.7  | 52.6  | 59.4  | 66.3  | 73.3  | 80.7  | 88.0  | 95.4  | 102.6 | 107.5 |
| 87.5°  | 22.2  | 29.4  | 36.5  | 43.6  | 50.7  | 58.1  | 65.5  | 73.0  | 80.5  | 87.9  | 92.9  |
| 90°    | 14.6  | 23.5  | 32.3  | 41.2  | 50.0  | 58.8  | 67.5  | 76.3  | 84.9  | 93.6  | 99.6  |
| 92.5°  | 23.2  | 29.2  | 35.2  | 41.2  | 47.1  | 54.5  | 63.2  | 71.9  | 80.6  | 89.4  | 95.2  |
| 95°    | 62.0  | 60.2  | 58.3  | 56.6  | 54.7  | 57.2  | 64.1  | 71.1  | 77.9  | 84.8  | 90.5  |
| 97.5°  | 120.2 | 129.3 | 138.5 | 147.6 | 156.7 | 152.7 | 135.6 | 118.6 | 101.5 | 84.5  | 88.9  |
| 100°   | 164.7 | 172.8 | 180.8 | 188.9 | 196.9 | 189.5 | 166.5 | 143.6 | 120.6 | 97.7  | 98.6  |
| 102.5° | 215.1 | 221.6 | 228.1 | 234.7 | 241.2 | 245.6 | 248.1 | 250.4 | 252.9 | 255.2 | 220.6 |
| 105°   | 294.1 | 298.6 | 303.1 | 307.6 | 312.2 | 318.0 | 325.1 | 332.2 | 339.2 | 346.4 | 352.3 |
| 107.5° | 368.5 | 371.9 | 375.2 | 378.5 | 381.8 | 387.0 | 394.2 | 401.3 | 408.5 | 415.7 | 420.6 |
| 110°   | 418.4 | 421.3 | 424.2 | 427.2 | 430.1 | 435.1 | 442.1 | 449.0 | 456.0 | 463.0 | 467.1 |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 466.7  | 469.9  | 473.1  | 476.3  | 479.4  | 484.0  | 490.0  | 496.1  | 502.1  | 508.1  | 511.7  |
| 115°   | 541.1  | 543.2  | 545.3  | 547.4  | 549.5  | 553.1  | 558.1  | 563.1  | 568.1  | 573.1  | 577.1  |
| 117.5° | 608.8  | 610.5  | 612.2  | 614.0  | 615.7  | 619.2  | 624.5  | 629.8  | 635.2  | 640.5  | 643.8  |
| 120°   | 654.0  | 655.3  | 656.7  | 658.0  | 659.3  | 662.2  | 666.8  | 671.3  | 675.8  | 680.3  | 684.0  |
| 122.5° | 696.8  | 697.4  | 698.0  | 698.6  | 699.2  | 701.9  | 706.6  | 711.4  | 716.1  | 721.0  | 724.4  |
| 125°   | 757.3  | 758.1  | 758.7  | 759.4  | 760.1  | 762.2  | 765.9  | 769.6  | 773.3  | 776.8  | 780.6  |
| 127.5° | 815.3  | 815.3  | 815.4  | 815.4  | 815.5  | 817.6  | 821.6  | 825.8  | 829.8  | 834.0  | 836.8  |
| 130°   | 852.2  | 852.2  | 852.2  | 852.2  | 852.3  | 853.9  | 857.2  | 860.4  | 863.7  | 867.0  | 870.1  |
| 132.5° | 886.5  | 886.7  | 886.9  | 887.1  | 887.4  | 888.9  | 891.8  | 894.8  | 897.6  | 900.5  | 903.5  |
| 135°   | 937.4  | 937.1  | 936.9  | 936.7  | 936.5  | 937.4  | 939.3  | 941.3  | 943.3  | 945.4  | 948.4  |
| 137.5° | 983.0  | 982.9  | 982.8  | 982.8  | 982.7  | 983.4  | 984.9  | 986.4  | 987.9  | 989.3  | 992.2  |
| 140°   | 1012.8 | 1013.0 | 1013.3 | 1013.5 | 1013.8 | 1014.3 | 1014.8 | 1015.4 | 1016.0 | 1016.6 | 1019.4 |
| 142.5° | 1039.0 | 1039.6 | 1040.4 | 1041.1 | 1041.9 | 1042.3 | 1042.5 | 1042.6 | 1042.7 | 1042.9 | 1045.3 |
| 145°   | 1079.9 | 1080.3 | 1080.8 | 1081.3 | 1081.8 | 1081.9 | 1081.9 | 1081.9 | 1081.9 | 1081.9 | 1083.2 |
| 147.5° | 1112.5 | 1113.5 | 1114.6 | 1115.6 | 1116.6 | 1117.0 | 1116.8 | 1116.6 | 1116.3 | 1116.2 | 1116.4 |
| 150°   | 1136.1 | 1136.9 | 1137.6 | 1138.2 | 1139.0 | 1139.2 | 1139.0 | 1138.8 | 1138.5 | 1138.3 | 1138.3 |
| 152.5° | 1155.5 | 1156.1 | 1156.8 | 1157.4 | 1158.0 | 1158.2 | 1157.8 | 1157.4 | 1157.1 | 1156.7 | 1157.0 |
| 155°   | 1183.2 | 1183.5 | 1183.6 | 1183.8 | 1184.0 | 1183.8 | 1183.2 | 1182.6 | 1181.9 | 1181.3 | 1182.1 |
| 157.5° | 1206.7 | 1206.5 | 1206.5 | 1206.3 | 1206.2 | 1205.8 | 1205.0 | 1204.3 | 1203.6 | 1202.9 | 1204.0 |
| 160°   | 1220.4 | 1219.8 | 1219.2 | 1218.5 | 1217.9 | 1217.5 | 1217.3 | 1217.0 | 1216.8 | 1216.6 | 1217.9 |
| 162.5° | 1232.7 | 1231.9 | 1231.1 | 1230.2 | 1229.5 | 1228.9 | 1228.7 | 1228.5 | 1228.3 | 1228.0 | 1229.4 |
| 165°   | 1248.1 | 1247.1 | 1246.0 | 1244.9 | 1243.9 | 1243.4 | 1243.4 | 1243.4 | 1243.4 | 1243.4 | 1245.1 |
| 167.5° | 1260.4 | 1259.2 | 1258.2 | 1257.1 | 1255.9 | 1255.4 | 1255.2 | 1255.1 | 1255.0 | 1254.8 | 1256.7 |
| 170°   | 1267.2 | 1265.9 | 1264.7 | 1263.4 | 1262.2 | 1261.6 | 1261.8 | 1262.1 | 1262.3 | 1262.4 | 1264.1 |
| 172.5° | 1271.8 | 1270.5 | 1269.2 | 1268.0 | 1266.7 | 1266.2 | 1266.4 | 1266.6 | 1266.9 | 1267.1 | 1268.8 |
| 175°   | 1276.8 | 1275.5 | 1274.2 | 1273.0 | 1271.7 | 1271.2 | 1271.4 | 1271.6 | 1271.8 | 1272.1 | 1273.9 |
| 177.5° | 1279.0 | 1277.9 | 1276.7 | 1275.5 | 1274.3 | 1273.9 | 1274.2 | 1274.6 | 1274.9 | 1275.3 | 1276.6 |
| 180°   | 1276.8 | 1276.8 | 1276.8 | 1276.8 | 1276.8 | 1276.8 | 1276.8 | 1276.8 | 1276.8 | 1276.8 | 1276.8 |



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**CANDELA DISTRIBUTION (continued):**

|        | 55°   | 60°   | 65°   | 70°   | 75°   | 80°   | 85°   | 90°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°     | 655.0 | 655.0 | 655.0 | 655.0 | 655.0 | 655.0 | 655.0 | 655.0 |
| 2.5°   | 652.7 | 653.6 | 654.5 | 654.9 | 654.8 | 654.6 | 654.5 | 654.4 |
| 5°     | 651.0 | 652.2 | 653.6 | 654.1 | 654.0 | 653.8 | 653.7 | 653.5 |
| 7.5°   | 647.5 | 648.9 | 650.4 | 651.1 | 650.9 | 650.7 | 650.5 | 650.4 |
| 10°    | 643.9 | 645.5 | 646.9 | 647.5 | 647.4 | 647.2 | 647.1 | 646.9 |
| 12.5°  | 639.0 | 640.4 | 641.7 | 642.3 | 642.3 | 642.2 | 642.2 | 642.2 |
| 15°    | 630.0 | 631.5 | 632.9 | 633.6 | 633.5 | 633.3 | 633.1 | 632.9 |
| 17.5°  | 619.1 | 620.6 | 622.1 | 622.7 | 622.6 | 622.5 | 622.4 | 622.3 |
| 20°    | 610.6 | 612.2 | 613.8 | 614.6 | 614.6 | 614.6 | 614.6 | 614.6 |
| 22.5°  | 600.6 | 602.2 | 603.8 | 604.8 | 605.0 | 605.3 | 605.6 | 605.9 |
| 25°    | 585.2 | 587.0 | 588.8 | 589.7 | 589.9 | 590.1 | 590.2 | 590.4 |
| 27.5°  | 568.0 | 569.6 | 571.3 | 572.2 | 572.4 | 572.6 | 572.8 | 573.0 |
| 30°    | 555.9 | 557.7 | 559.5 | 560.5 | 560.8 | 561.2 | 561.5 | 561.8 |
| 32.5°  | 543.5 | 545.5 | 547.6 | 548.7 | 549.1 | 549.4 | 549.8 | 550.1 |
| 35°    | 523.9 | 526.1 | 528.4 | 529.8 | 530.3 | 530.7 | 531.2 | 531.8 |
| 37.5°  | 503.4 | 505.7 | 508.0 | 509.4 | 509.9 | 510.5 | 511.0 | 511.5 |
| 40°    | 489.0 | 491.4 | 493.9 | 495.4 | 496.1 | 496.7 | 497.4 | 498.0 |
| 42.5°  | 474.9 | 477.5 | 480.2 | 481.8 | 482.4 | 482.9 | 483.4 | 483.9 |
| 45°    | 453.0 | 455.7 | 458.5 | 460.2 | 461.1 | 461.9 | 462.7 | 463.5 |
| 47.5°  | 429.8 | 432.7 | 435.5 | 437.4 | 438.5 | 439.4 | 440.5 | 441.4 |
| 50°    | 413.6 | 416.9 | 420.1 | 422.3 | 423.2 | 424.1 | 425.2 | 426.1 |
| 52.5°  | 397.2 | 400.4 | 403.7 | 405.8 | 406.8 | 407.7 | 408.7 | 409.7 |
| 55°    | 372.5 | 375.8 | 379.0 | 381.2 | 382.1 | 383.1 | 384.1 | 385.0 |
| 57.5°  | 346.6 | 350.5 | 354.4 | 356.8 | 357.7 | 358.5 | 359.5 | 360.4 |
| 60°    | 328.8 | 332.5 | 336.2 | 338.7 | 340.1 | 341.4 | 342.7 | 344.0 |
| 62.5°  | 311.1 | 314.9 | 318.7 | 321.1 | 322.4 | 323.8 | 325.1 | 326.4 |
| 65°    | 283.9 | 288.0 | 292.1 | 294.7 | 296.1 | 297.4 | 298.7 | 300.0 |
| 67.5°  | 257.2 | 261.4 | 265.5 | 268.2 | 269.5 | 270.7 | 272.0 | 273.2 |
| 70°    | 238.4 | 242.8 | 247.1 | 250.0 | 251.1 | 252.2 | 253.4 | 254.5 |
| 72.5°  | 220.5 | 224.8 | 229.0 | 231.8 | 233.1 | 234.3 | 235.6 | 236.9 |
| 75°    | 193.2 | 197.7 | 202.4 | 205.4 | 206.8 | 208.3 | 209.8 | 211.2 |
| 77.5°  | 167.9 | 172.5 | 177.1 | 180.2 | 181.7 | 183.3 | 184.8 | 186.4 |
| 80°    | 151.4 | 156.2 | 161.1 | 164.2 | 165.5 | 166.8 | 168.1 | 169.5 |
| 82.5°  | 135.2 | 140.2 | 145.2 | 148.5 | 149.9 | 151.3 | 152.7 | 154.2 |
| 85°    | 112.4 | 117.3 | 122.2 | 125.5 | 127.1 | 128.8 | 130.4 | 132.1 |
| 87.5°  | 97.9  | 102.9 | 107.9 | 111.1 | 112.6 | 114.1 | 115.6 | 117.3 |
| 90°    | 105.7 | 111.6 | 117.6 | 121.5 | 123.2 | 125.0 | 126.7 | 128.4 |
| 92.5°  | 101.0 | 107.0 | 112.8 | 116.4 | 117.8 | 119.2 | 120.6 | 122.0 |
| 95°    | 96.1  | 101.8 | 107.5 | 111.2 | 112.9 | 114.5 | 116.2 | 117.9 |
| 97.5°  | 93.3  | 97.6  | 102.1 | 105.1 | 106.7 | 108.3 | 109.9 | 111.5 |
| 100°   | 99.3  | 100.1 | 100.9 | 102.0 | 103.4 | 104.7 | 106.0 | 107.4 |
| 102.5° | 186.0 | 151.3 | 116.7 | 100.0 | 101.3 | 102.6 | 104.0 | 105.3 |
| 105°   | 358.4 | 364.3 | 370.3 | 370.1 | 363.8 | 357.4 | 351.1 | 344.8 |
| 107.5° | 425.6 | 430.5 | 435.4 | 438.8 | 440.8 | 442.8 | 444.8 | 446.8 |
| 110°   | 471.3 | 475.4 | 479.7 | 482.7 | 484.7 | 486.5 | 488.5 | 490.5 |





TEST NUMBER: P332759-830

CATALOG NUMBER: S124DIW-S575D1050U830-4F0-1E-UDD-D

**CANDELA DISTRIBUTION (continued):**

|        | 55°    | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 515.2  | 518.8  | 522.3  | 525.1  | 527.2  | 529.3  | 531.4  | 533.6  |
| 115°   | 581.1  | 585.1  | 589.1  | 591.7  | 592.9  | 594.0  | 595.1  | 596.3  |
| 117.5° | 647.1  | 650.4  | 653.7  | 656.0  | 657.1  | 658.4  | 659.6  | 660.8  |
| 120°   | 687.7  | 691.4  | 695.0  | 697.4  | 698.2  | 699.1  | 700.0  | 700.9  |
| 122.5° | 728.0  | 731.5  | 735.0  | 737.2  | 737.9  | 738.7  | 739.4  | 740.1  |
| 125°   | 784.3  | 788.1  | 791.8  | 794.3  | 795.4  | 796.6  | 797.9  | 799.0  |
| 127.5° | 839.6  | 842.4  | 845.2  | 847.1  | 848.0  | 848.9  | 849.9  | 850.8  |
| 130°   | 873.3  | 876.4  | 879.5  | 881.6  | 882.6  | 883.5  | 884.5  | 885.5  |
| 132.5° | 906.5  | 909.6  | 912.6  | 914.5  | 915.3  | 916.1  | 916.9  | 917.7  |
| 135°   | 951.4  | 954.4  | 957.4  | 959.7  | 961.1  | 962.5  | 963.8  | 965.3  |
| 137.5° | 995.0  | 997.9  | 1000.7 | 1002.5 | 1003.1 | 1003.8 | 1004.6 | 1005.2 |
| 140°   | 1022.1 | 1024.8 | 1027.7 | 1029.5 | 1030.6 | 1031.5 | 1032.6 | 1033.6 |
| 142.5° | 1047.5 | 1049.9 | 1052.3 | 1053.8 | 1054.5 | 1055.2 | 1055.9 | 1056.7 |
| 145°   | 1084.4 | 1085.5 | 1086.8 | 1087.9 | 1088.9 | 1090.1 | 1091.1 | 1092.2 |
| 147.5° | 1116.7 | 1117.1 | 1117.4 | 1117.9 | 1118.6 | 1119.4 | 1120.1 | 1120.8 |
| 150°   | 1138.3 | 1138.3 | 1138.3 | 1138.4 | 1138.6 | 1138.9 | 1139.1 | 1139.3 |
| 152.5° | 1157.3 | 1157.6 | 1158.0 | 1158.1 | 1158.0 | 1157.8 | 1157.7 | 1157.6 |
| 155°   | 1183.0 | 1183.8 | 1184.7 | 1184.8 | 1184.1 | 1183.6 | 1182.9 | 1182.2 |
| 157.5° | 1205.0 | 1206.2 | 1207.3 | 1207.3 | 1206.2 | 1205.0 | 1204.0 | 1202.9 |
| 160°   | 1219.2 | 1220.4 | 1221.7 | 1221.7 | 1220.4 | 1219.2 | 1217.9 | 1216.6 |
| 162.5° | 1230.6 | 1231.9 | 1233.1 | 1233.1 | 1231.6 | 1230.2 | 1228.8 | 1227.3 |
| 165°   | 1246.8 | 1248.5 | 1250.2 | 1250.0 | 1248.1 | 1246.2 | 1244.3 | 1242.4 |
| 167.5° | 1258.6 | 1260.5 | 1262.3 | 1262.2 | 1260.1 | 1257.9 | 1255.8 | 1253.7 |
| 170°   | 1265.8 | 1267.5 | 1269.2 | 1269.0 | 1266.9 | 1264.8 | 1262.6 | 1260.6 |
| 172.5° | 1270.5 | 1272.1 | 1273.8 | 1273.6 | 1271.2 | 1268.9 | 1266.7 | 1264.3 |
| 175°   | 1275.8 | 1277.7 | 1279.7 | 1279.3 | 1276.8 | 1274.2 | 1271.7 | 1269.1 |
| 177.5° | 1278.0 | 1279.3 | 1280.7 | 1280.3 | 1278.3 | 1276.3 | 1274.2 | 1272.2 |
| 180°   | 1276.8 | 1276.8 | 1276.8 | 1276.8 | 1276.8 | 1276.8 | 1276.8 | 1276.8 |

(END OF REPORT)