

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: P331959

Luminaire Tested: **S123DIP-S775D365U835-4F0-1E-UDD-D1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P331959  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-9,  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: S123DIP-S775D365U835-4F0-1E-UDD-D1  
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 775 LUMENS PER FOOT, DROP SATIN WHITE DIFFUSER  
UPLIGHT 365 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4477.9 lumens  
Efficiency: N/A  
Efficacy: 127.9 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.37  
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.08')  
CIE Type: Semi-Direct

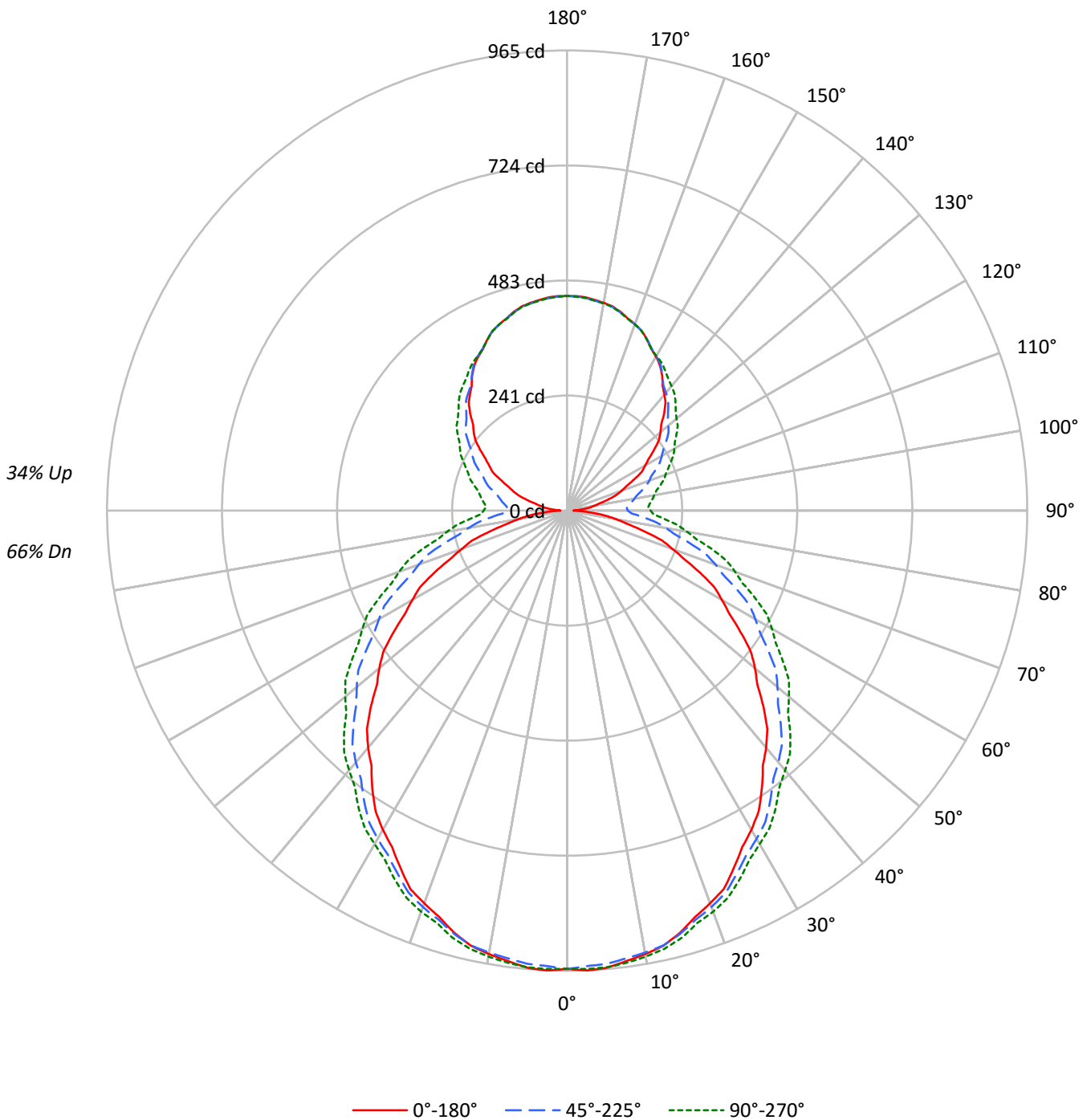
Input Watts (W): 35  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





TEST NUMBER: P331959

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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   | 111 | 111 | 111 | 111 | 104 | 104 | 104 | 104 | 92 | 92 | 92 | 81 | 81 | 81 | 71 | 71 | 71 | 66 |
| 1   | 100 | 95  | 90  | 86  | 94  | 89  | 85  | 82  | 79 | 76 | 73 | 69 | 67 | 65 | 61 | 59 | 57 | 53 |
| 2   | 91  | 82  | 75  | 69  | 85  | 77  | 71  | 66  | 68 | 64 | 59 | 60 | 56 | 53 | 52 | 50 | 47 | 43 |
| 3   | 82  | 72  | 64  | 57  | 77  | 68  | 60  | 55  | 60 | 54 | 49 | 53 | 48 | 44 | 46 | 43 | 39 | 36 |
| 4   | 75  | 63  | 55  | 48  | 70  | 60  | 52  | 46  | 53 | 47 | 42 | 47 | 42 | 38 | 41 | 37 | 34 | 30 |
| 5   | 69  | 56  | 48  | 41  | 64  | 53  | 45  | 39  | 47 | 41 | 36 | 42 | 37 | 32 | 37 | 33 | 29 | 26 |
| 6   | 63  | 51  | 42  | 36  | 59  | 48  | 40  | 34  | 43 | 36 | 31 | 38 | 32 | 28 | 33 | 29 | 26 | 23 |
| 7   | 59  | 46  | 37  | 31  | 55  | 43  | 35  | 30  | 39 | 32 | 27 | 34 | 29 | 25 | 30 | 26 | 23 | 20 |
| 8   | 55  | 41  | 33  | 28  | 51  | 39  | 32  | 27  | 35 | 29 | 24 | 31 | 26 | 22 | 28 | 23 | 20 | 18 |
| 9   | 51  | 38  | 30  | 25  | 48  | 36  | 29  | 24  | 32 | 26 | 22 | 29 | 24 | 20 | 26 | 21 | 18 | 16 |
| 10  | 47  | 35  | 27  | 22  | 45  | 33  | 26  | 21  | 30 | 24 | 20 | 27 | 22 | 18 | 24 | 20 | 17 | 15 |

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

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 10346 | 10346 | 10346 |
| 5°  | 10379 | 10086 | 10092 |
| 10° | 10286 | 9853  | 9804  |
| 15° | 10153 | 9590  | 9490  |
| 20° | 9963  | 9288  | 9146  |
| 25° | 9730  | 8942  | 8782  |
| 30° | 9490  | 8630  | 8415  |
| 35° | 9221  | 8300  | 8121  |
| 40° | 8965  | 8000  | 7807  |
| 45° | 8682  | 7712  | 7556  |
| 50° | 8400  | 7427  | 7278  |
| 55° | 8091  | 7135  | 7030  |
| 60° | 7790  | 6839  | 6774  |
| 65° | 7480  | 6524  | 6470  |
| 70° | 7013  | 6169  | 6159  |
| 75° | 6425  | 5763  | 5842  |
| 80° | 5749  | 5363  | 5479  |
| 85° | 5117  | 5090  | 5269  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 91.1   | 2.0       |
| 10°-20°   | 259.8  | 5.8       |
| 20°-30°   | 388.5  | 8.7       |
| 30°-40°   | 464.0  | 10.4      |
| 40°-50°   | 485.4  | 10.8      |
| 50°-60°   | 455.5  | 10.2      |
| 60°-70°   | 380.5  | 8.5       |
| 70°-80°   | 272.2  | 6.1       |
| 80°-90°   | 163.7  | 3.7       |
| 90°-100°  | 131.2  | 2.9       |
| 100°-110° | 162.6  | 3.6       |
| 110°-120° | 199.2  | 4.4       |
| 120°-130° | 224.8  | 5.0       |
| 130°-140° | 233.4  | 5.2       |
| 140°-150° | 219.6  | 4.9       |
| 150°-160° | 182.5  | 4.1       |
| 160°-170° | 121.5  | 2.7       |
| 170°-180° | 42.5   | 1.0       |
| 0°-30°    | 739.4  | 16.5      |
| 0°-40°    | 1203.3 | 26.9      |
| 0°-60°    | 2144.3 | 47.9      |
| 0°-90°    | 2960.6 | 66.1      |
| 90°-120°  | 492.9  | 11.0      |
| 90°-150°  | 1170.7 | 26.1      |
| 90°-180°  | 1517.0 | 33.9      |
| 0°-180°   | 4477.9 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°  | 22.5° | 45° | 67.5° | 90° | Flux |
|------|-----|-------|-----|-------|-----|------|
| 0°   | 961 | 961   | 961 | 961   | 961 |      |
| 5°   | 962 | 960   | 954 | 962   | 961 | 91   |
| 15°  | 916 | 919   | 918 | 928   | 928 | 258  |
| 25°  | 827 | 837   | 841 | 854   | 854 | 381  |
| 35°  | 712 | 729   | 742 | 757   | 762 | 445  |
| 45°  | 582 | 607   | 634 | 653   | 662 | 449  |
| 55°  | 444 | 479   | 516 | 543   | 553 | 397  |
| 65°  | 307 | 348   | 394 | 424   | 436 | 303  |
| 75°  | 166 | 216   | 268 | 301   | 315 | 178  |
| 85°  | 51  | 104   | 159 | 193   | 205 | 54   |
| 90°  | 14  | 69    | 127 | 162   | 175 | 11   |
| 95°  | 32  | 76    | 130 | 162   | 174 | 32   |
| 105° | 88  | 115   | 162 | 190   | 201 | 94   |
| 115° | 155 | 170   | 206 | 231   | 240 | 154  |
| 125° | 223 | 226   | 254 | 273   | 280 | 199  |
| 135° | 287 | 289   | 300 | 316   | 322 | 221  |
| 145° | 347 | 347   | 348 | 356   | 358 | 216  |
| 155° | 396 | 396   | 396 | 398   | 395 | 182  |
| 165° | 432 | 430   | 430 | 432   | 430 | 122  |
| 175° | 449 | 448   | 447 | 449   | 447 | 43   |
| 180° | 450 | 450   | 450 | 450   | 450 |      |



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**CANDELA DISTRIBUTION (FULL):**

|        | 0°    | 5°    | 10°   | 15°   | 20°   | 25°   | 30°   | 35°   | 40°   | 45°   | 50°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°     | 961.2 | 961.2 | 961.2 | 961.2 | 961.2 | 961.2 | 961.2 | 961.2 | 961.2 | 961.2 | 961.2 |
| 2.5°   | 965.4 | 964.8 | 964.3 | 963.7 | 963.2 | 962.1 | 960.7 | 959.2 | 957.7 | 956.2 | 957.7 |
| 5°     | 962.3 | 961.8 | 961.3 | 960.9 | 960.4 | 959.5 | 958.1 | 956.7 | 955.3 | 953.9 | 955.8 |
| 7.5°   | 952.8 | 952.9 | 953.0 | 953.1 | 953.2 | 952.6 | 951.2 | 949.9 | 948.5 | 947.2 | 949.5 |
| 10°    | 944.5 | 944.9 | 945.4 | 945.9 | 946.3 | 946.0 | 944.8 | 943.7 | 942.5 | 941.3 | 943.7 |
| 12.5°  | 934.4 | 935.1 | 935.7 | 936.4 | 937.0 | 937.0 | 936.2 | 935.4 | 934.6 | 933.8 | 935.9 |
| 15°    | 916.2 | 916.9 | 917.6 | 918.3 | 919.0 | 919.2 | 919.0 | 918.8 | 918.5 | 918.3 | 920.6 |
| 17.5°  | 893.2 | 894.6 | 896.0 | 897.3 | 898.7 | 899.4 | 899.3 | 899.2 | 899.1 | 899.0 | 901.1 |
| 20°    | 876.4 | 877.8 | 879.2 | 880.6 | 882.0 | 882.9 | 883.4 | 883.9 | 884.3 | 884.8 | 886.9 |
| 22.5°  | 858.8 | 860.2 | 861.6 | 863.0 | 864.4 | 865.4 | 866.1 | 866.7 | 867.4 | 868.0 | 870.7 |
| 25°    | 827.2 | 829.5 | 831.8 | 834.2 | 836.5 | 838.0 | 838.7 | 839.4 | 840.1 | 840.8 | 843.8 |
| 27.5°  | 795.4 | 798.0 | 800.7 | 803.3 | 806.0 | 808.0 | 809.5 | 811.0 | 812.5 | 814.0 | 816.6 |
| 30°    | 772.7 | 775.8 | 778.8 | 781.8 | 784.8 | 787.3 | 789.1 | 791.0 | 792.9 | 794.7 | 797.5 |
| 32.5°  | 747.6 | 751.0 | 754.4 | 757.8 | 761.2 | 764.1 | 766.5 | 769.0 | 771.4 | 773.8 | 776.8 |
| 35°    | 712.0 | 715.7 | 719.5 | 723.2 | 726.9 | 730.3 | 733.3 | 736.3 | 739.4 | 742.4 | 745.9 |
| 37.5°  | 674.3 | 678.5 | 682.7 | 686.9 | 691.1 | 695.0 | 698.8 | 702.5 | 706.2 | 709.9 | 713.9 |
| 40°    | 649.2 | 653.4 | 657.6 | 661.8 | 665.9 | 670.4 | 675.0 | 679.7 | 684.3 | 689.0 | 692.9 |
| 42.5°  | 621.5 | 626.7 | 631.8 | 636.9 | 642.0 | 647.0 | 651.8 | 656.7 | 661.5 | 666.4 | 670.7 |
| 45°    | 582.2 | 587.8 | 593.3 | 598.9 | 604.5 | 610.2 | 616.0 | 621.8 | 627.7 | 633.5 | 637.9 |
| 47.5°  | 540.9 | 547.3 | 553.6 | 559.9 | 566.2 | 572.7 | 579.4 | 586.0 | 592.7 | 599.3 | 604.3 |
| 50°    | 514.1 | 520.6 | 527.1 | 533.7 | 540.2 | 547.0 | 554.3 | 561.5 | 568.7 | 575.9 | 581.2 |
| 52.5°  | 485.6 | 492.5 | 499.4 | 506.3 | 513.2 | 520.6 | 528.6 | 536.5 | 544.5 | 552.4 | 558.0 |
| 55°    | 444.0 | 451.6 | 459.3 | 467.0 | 474.7 | 482.7 | 491.1 | 499.5 | 507.8 | 516.2 | 522.5 |
| 57.5°  | 403.3 | 411.3 | 419.3 | 427.3 | 435.4 | 443.9 | 453.1 | 462.3 | 471.4 | 480.6 | 486.9 |
| 60°    | 374.9 | 383.2 | 391.6 | 400.0 | 408.4 | 417.3 | 426.9 | 436.4 | 445.9 | 455.5 | 462.0 |
| 62.5°  | 348.0 | 356.6 | 365.2 | 373.7 | 382.3 | 391.6 | 401.7 | 411.8 | 421.9 | 432.0 | 438.5 |
| 65°    | 306.8 | 315.9 | 324.9 | 334.0 | 343.1 | 352.7 | 363.0 | 373.2 | 383.5 | 393.7 | 400.7 |
| 67.5°  | 264.9 | 274.5 | 284.2 | 293.8 | 303.4 | 313.5 | 323.9 | 334.3 | 344.7 | 355.2 | 362.8 |
| 70°    | 235.6 | 245.6 | 255.6 | 265.6 | 275.6 | 286.2 | 297.4 | 308.5 | 319.7 | 330.9 | 338.3 |
| 72.5°  | 208.8 | 218.8 | 228.8 | 238.8 | 248.8 | 259.6 | 271.1 | 282.7 | 294.2 | 305.7 | 313.4 |
| 75°    | 166.5 | 177.4 | 188.4 | 199.3 | 210.2 | 221.5 | 233.1 | 244.8 | 256.4 | 268.1 | 275.7 |
| 77.5°  | 129.6 | 140.7 | 151.7 | 162.7 | 173.7 | 185.1 | 196.9 | 208.6 | 220.3 | 232.0 | 240.1 |
| 80°    | 103.7 | 115.1 | 126.5 | 137.9 | 149.3 | 161.0 | 173.1 | 185.2 | 197.3 | 209.4 | 217.3 |
| 82.5°  | 81.0  | 92.6  | 104.2 | 115.8 | 127.4 | 139.3 | 151.6 | 163.9 | 176.2 | 188.5 | 196.4 |
| 85°    | 51.3  | 62.9  | 74.6  | 86.2  | 97.8  | 109.8 | 122.2 | 134.5 | 146.8 | 159.2 | 167.1 |
| 87.5°  | 27.9  | 39.7  | 51.4  | 63.2  | 74.9  | 86.8  | 98.9  | 111.0 | 123.0 | 135.1 | 143.1 |
| 90°    | 14.0  | 26.2  | 38.3  | 50.5  | 62.7  | 75.3  | 88.1  | 101.0 | 113.9 | 126.8 | 135.0 |
| 92.5°  | 21.3  | 32.1  | 43.0  | 53.8  | 64.6  | 76.1  | 88.4  | 100.7 | 112.9 | 125.2 | 133.2 |
| 95°    | 32.4  | 42.0  | 51.6  | 61.2  | 70.9  | 81.7  | 93.7  | 105.8 | 117.8 | 129.8 | 137.3 |
| 97.5°  | 47.3  | 55.9  | 64.5  | 73.1  | 81.7  | 91.7  | 103.0 | 114.4 | 125.7 | 137.0 | 144.3 |
| 100°   | 57.5  | 65.4  | 73.3  | 81.2  | 89.2  | 98.7  | 109.8 | 120.9 | 131.9 | 143.0 | 150.0 |
| 102.5° | 69.4  | 76.4  | 83.3  | 90.3  | 97.3  | 106.3 | 117.4 | 128.4 | 139.4 | 150.5 | 157.3 |
| 105°   | 87.9  | 93.6  | 99.4  | 105.1 | 110.9 | 119.1 | 129.8 | 140.5 | 151.2 | 161.9 | 168.4 |
| 107.5° | 108.4 | 113.2 | 118.1 | 122.9 | 127.8 | 135.1 | 144.9 | 154.6 | 164.4 | 174.2 | 180.7 |
| 110°   | 121.1 | 125.5 | 129.8 | 134.2 | 138.5 | 145.4 | 154.9 | 164.3 | 173.8 | 183.3 | 189.6 |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 5°    | 10°   | 15°   | 20°   | 25°   | 30°   | 35°   | 40°   | 45°   | 50°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 135.3 | 138.8 | 142.3 | 145.9 | 149.4 | 155.7 | 164.6 | 173.6 | 182.6 | 191.5 | 197.8 |
| 115°   | 155.4 | 158.5 | 161.5 | 164.5 | 167.5 | 173.2 | 181.4 | 189.6 | 197.8 | 206.0 | 211.7 |
| 117.5° | 176.6 | 178.4 | 180.3 | 182.2 | 184.1 | 188.8 | 196.5 | 204.2 | 211.8 | 219.5 | 225.0 |
| 120°   | 189.0 | 190.6 | 192.3 | 193.9 | 195.6 | 200.0 | 207.3 | 214.6 | 221.9 | 229.2 | 234.4 |
| 122.5° | 202.9 | 203.8 | 204.8 | 205.7 | 206.7 | 210.7 | 217.8 | 224.9 | 232.0 | 239.1 | 244.1 |
| 125°   | 223.0 | 223.2 | 223.4 | 223.7 | 223.9 | 227.3 | 233.9 | 240.5 | 247.1 | 253.7 | 258.2 |
| 127.5° | 242.5 | 242.7 | 243.0 | 243.3 | 243.5 | 246.4 | 251.8 | 257.2 | 262.6 | 268.0 | 272.2 |
| 130°   | 255.5 | 255.9 | 256.3 | 256.6 | 257.0 | 259.5 | 263.9 | 268.3 | 272.7 | 277.1 | 281.2 |
| 132.5° | 267.6 | 268.2 | 268.8 | 269.4 | 270.0 | 272.0 | 275.6 | 279.1 | 282.7 | 286.2 | 290.1 |
| 135°   | 287.3 | 287.5 | 287.8 | 288.0 | 288.2 | 289.6 | 292.1 | 294.6 | 297.0 | 299.5 | 303.4 |
| 137.5° | 305.4 | 305.7 | 305.9 | 306.1 | 306.3 | 307.2 | 308.8 | 310.5 | 312.1 | 313.8 | 317.1 |
| 140°   | 317.3 | 317.7 | 318.1 | 318.5 | 318.9 | 319.5 | 320.3 | 321.0 | 321.8 | 322.6 | 326.0 |
| 142.5° | 328.9 | 329.1 | 329.3 | 329.5 | 329.7 | 330.0 | 330.3 | 330.6 | 330.8 | 331.1 | 334.2 |
| 145°   | 347.0 | 346.9 | 346.9 | 346.8 | 346.7 | 346.8 | 347.0 | 347.3 | 347.5 | 347.7 | 349.5 |
| 147.5° | 361.8 | 362.1 | 362.4 | 362.7 | 362.9 | 363.2 | 363.4 | 363.6 | 363.8 | 364.1 | 364.6 |
| 150°   | 372.8 | 373.0 | 373.1 | 373.3 | 373.5 | 373.6 | 373.8 | 373.9 | 374.1 | 374.2 | 374.2 |
| 152.5° | 381.9 | 382.1 | 382.3 | 382.5 | 382.8 | 382.9 | 383.0 | 383.1 | 383.2 | 383.3 | 383.4 |
| 155°   | 396.2 | 396.2 | 396.2 | 396.2 | 396.2 | 396.2 | 396.3 | 396.3 | 396.4 | 396.5 | 396.8 |
| 157.5° | 408.3 | 408.2 | 408.1 | 408.0 | 407.9 | 407.9 | 408.0 | 408.0 | 408.1 | 408.2 | 408.5 |
| 160°   | 415.9 | 415.8 | 415.6 | 415.5 | 415.3 | 415.2 | 415.2 | 415.2 | 415.2 | 415.2 | 415.6 |
| 162.5° | 422.7 | 422.5 | 422.3 | 422.1 | 421.8 | 421.8 | 421.8 | 421.9 | 422.0 | 422.0 | 422.4 |
| 165°   | 431.5 | 431.3 | 431.0 | 430.8 | 430.5 | 430.4 | 430.4 | 430.4 | 430.4 | 430.4 | 430.9 |
| 167.5° | 438.5 | 438.2 | 437.9 | 437.5 | 437.2 | 437.1 | 437.2 | 437.2 | 437.3 | 437.4 | 437.8 |
| 170°   | 442.4 | 442.1 | 441.8 | 441.5 | 441.2 | 441.0 | 441.0 | 441.0 | 441.0 | 441.0 | 441.6 |
| 172.5° | 445.6 | 445.2 | 444.9 | 444.6 | 444.3 | 444.1 | 444.1 | 444.1 | 444.1 | 444.1 | 444.6 |
| 175°   | 448.8 | 448.5 | 448.2 | 447.9 | 447.6 | 447.4 | 447.4 | 447.4 | 447.4 | 447.4 | 447.9 |
| 177.5° | 450.1 | 449.9 | 449.6 | 449.4 | 449.1 | 449.0 | 449.0 | 449.0 | 449.0 | 449.0 | 449.4 |
| 180°   | 449.9 | 449.9 | 449.9 | 449.9 | 449.9 | 449.9 | 449.9 | 449.9 | 449.9 | 449.9 | 449.9 |



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**CANDELA DISTRIBUTION (continued):**

|        | 55°   | 60°   | 65°   | 70°   | 75°   | 80°   | 85°   | 90°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°     | 961.2 | 961.2 | 961.2 | 961.2 | 961.2 | 961.2 | 961.2 | 961.2 |
| 2.5°   | 959.2 | 960.7 | 962.1 | 962.8 | 962.6 | 962.4 | 962.2 | 962.1 |
| 5°     | 957.6 | 959.5 | 961.3 | 962.1 | 961.9 | 961.7 | 961.5 | 961.2 |
| 7.5°   | 951.8 | 954.2 | 956.5 | 957.5 | 957.2 | 957.0 | 956.7 | 956.4 |
| 10°    | 946.0 | 948.3 | 950.6 | 951.6 | 951.1 | 950.6 | 950.2 | 949.7 |
| 12.5°  | 938.1 | 940.2 | 942.3 | 943.2 | 942.7 | 942.3 | 941.8 | 941.3 |
| 15°    | 922.9 | 925.3 | 927.6 | 928.6 | 928.4 | 928.2 | 927.9 | 927.7 |
| 17.5°  | 903.2 | 905.3 | 907.4 | 908.3 | 908.0 | 907.6 | 907.3 | 907.0 |
| 20°    | 889.0 | 891.1 | 893.2 | 894.3 | 894.6 | 894.8 | 895.0 | 895.3 |
| 22.5°  | 873.3 | 876.0 | 878.6 | 879.9 | 879.8 | 879.6 | 879.5 | 879.3 |
| 25°    | 846.9 | 849.9 | 852.9 | 854.4 | 854.4 | 854.4 | 854.4 | 854.4 |
| 27.5°  | 819.2 | 821.8 | 824.4 | 825.8 | 826.0 | 826.2 | 826.4 | 826.6 |
| 30°    | 800.3 | 803.1 | 805.9 | 807.3 | 807.3 | 807.3 | 807.3 | 807.3 |
| 32.5°  | 779.7 | 782.7 | 785.7 | 787.5 | 788.0 | 788.6 | 789.1 | 789.7 |
| 35°    | 749.4 | 752.9 | 756.3 | 758.6 | 759.5 | 760.4 | 761.3 | 762.3 |
| 37.5°  | 717.8 | 721.8 | 725.7 | 728.1 | 728.8 | 729.6 | 730.3 | 731.1 |
| 40°    | 696.9 | 700.8 | 704.8 | 707.2 | 708.2 | 709.1 | 710.0 | 711.0 |
| 42.5°  | 675.0 | 679.3 | 683.7 | 686.5 | 687.8 | 689.1 | 690.4 | 691.7 |
| 45°    | 642.3 | 646.7 | 651.2 | 654.3 | 656.2 | 658.0 | 659.9 | 661.8 |
| 47.5°  | 609.3 | 614.3 | 619.3 | 622.5 | 623.9 | 625.4 | 626.8 | 628.2 |
| 50°    | 586.6 | 591.9 | 597.3 | 600.8 | 602.4 | 604.0 | 605.7 | 607.3 |
| 52.5°  | 563.5 | 569.1 | 574.6 | 578.4 | 580.4 | 582.4 | 584.4 | 586.4 |
| 55°    | 528.8 | 535.1 | 541.3 | 545.4 | 547.3 | 549.1 | 551.0 | 552.9 |
| 57.5°  | 493.3 | 499.6 | 505.9 | 510.2 | 512.4 | 514.6 | 516.7 | 518.9 |
| 60°    | 468.5 | 475.0 | 481.5 | 486.1 | 488.6 | 491.2 | 493.8 | 496.3 |
| 62.5°  | 445.1 | 451.6 | 458.1 | 462.5 | 464.9 | 467.3 | 469.7 | 472.0 |
| 65°    | 407.7 | 414.6 | 421.6 | 426.3 | 428.6 | 430.9 | 433.3 | 435.6 |
| 67.5°  | 370.4 | 378.1 | 385.7 | 390.5 | 392.4 | 394.4 | 396.4 | 398.3 |
| 70°    | 345.8 | 353.2 | 360.7 | 365.5 | 367.9 | 370.2 | 372.5 | 374.9 |
| 72.5°  | 321.0 | 328.6 | 336.3 | 341.3 | 343.6 | 345.9 | 348.2 | 350.6 |
| 75°    | 283.4 | 291.1 | 298.8 | 304.0 | 306.8 | 309.6 | 312.4 | 315.2 |
| 77.5°  | 248.2 | 256.3 | 264.4 | 269.5 | 271.7 | 273.8 | 276.0 | 278.1 |
| 80°    | 225.2 | 233.1 | 241.1 | 246.2 | 248.5 | 250.8 | 253.2 | 255.5 |
| 82.5°  | 204.3 | 212.2 | 220.1 | 225.2 | 227.6 | 229.9 | 232.2 | 234.5 |
| 85°    | 175.0 | 182.9 | 190.8 | 195.9 | 198.2 | 200.6 | 202.9 | 205.2 |
| 87.5°  | 151.0 | 159.0 | 167.0 | 172.2 | 174.5 | 176.9 | 179.2 | 181.6 |
| 90°    | 143.3 | 151.5 | 159.7 | 165.1 | 167.5 | 170.0 | 172.5 | 175.0 |
| 92.5°  | 141.1 | 149.1 | 157.1 | 162.1 | 164.2 | 166.2 | 168.2 | 170.3 |
| 95°    | 144.9 | 152.4 | 159.9 | 164.8 | 167.2 | 169.5 | 171.8 | 174.2 |
| 97.5°  | 151.6 | 158.9 | 166.2 | 171.0 | 173.3 | 175.6 | 177.9 | 180.2 |
| 100°   | 157.0 | 164.0 | 171.0 | 175.7 | 178.2 | 180.7 | 183.2 | 185.6 |
| 102.5° | 164.1 | 170.8 | 177.6 | 182.2 | 184.5 | 186.8 | 189.1 | 191.4 |
| 105°   | 175.0 | 181.5 | 188.0 | 192.4 | 194.6 | 196.9 | 199.1 | 201.4 |
| 107.5° | 187.2 | 193.6 | 200.1 | 204.3 | 206.3 | 208.3 | 210.2 | 212.2 |
| 110°   | 196.0 | 202.4 | 208.7 | 212.8 | 214.5 | 216.2 | 217.9 | 219.6 |





TEST NUMBER: P331959

CATALOG NUMBER: S123DIP-S775D365U835-4F0-1E-UDD-D1

**CANDELA DISTRIBUTION (continued):**

|        | 55°   | 60°   | 65°   | 70°   | 75°   | 80°   | 85°   | 90°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 204.0 | 210.3 | 216.5 | 220.6 | 222.6 | 224.7 | 226.7 | 228.7 |
| 115°   | 217.4 | 223.0 | 228.7 | 232.4 | 234.2 | 236.0 | 237.8 | 239.5 |
| 117.5° | 230.5 | 236.1 | 241.6 | 245.1 | 246.7 | 248.3 | 249.9 | 251.5 |
| 120°   | 239.7 | 245.0 | 250.2 | 253.6 | 255.1 | 256.6 | 258.0 | 259.5 |
| 122.5° | 249.0 | 254.0 | 258.9 | 262.1 | 263.5 | 265.0 | 266.4 | 267.8 |
| 125°   | 262.8 | 267.4 | 272.0 | 274.9 | 276.2 | 277.5 | 278.8 | 280.2 |
| 127.5° | 276.4 | 280.5 | 284.7 | 287.4 | 288.6 | 289.8 | 291.1 | 292.3 |
| 130°   | 285.3 | 289.4 | 293.6 | 296.0 | 296.9 | 297.7 | 298.6 | 299.4 |
| 132.5° | 293.9 | 297.8 | 301.7 | 304.2 | 305.3 | 306.5 | 307.6 | 308.8 |
| 135°   | 307.3 | 311.1 | 315.0 | 317.5 | 318.5 | 319.5 | 320.5 | 321.5 |
| 137.5° | 320.5 | 323.8 | 327.2 | 329.3 | 330.1 | 331.0 | 331.9 | 332.7 |
| 140°   | 329.4 | 332.8 | 336.2 | 338.3 | 338.9 | 339.5 | 340.1 | 340.7 |
| 142.5° | 337.2 | 340.2 | 343.3 | 345.2 | 345.9 | 346.6 | 347.4 | 348.1 |
| 145°   | 351.3 | 353.1 | 354.9 | 356.1 | 356.7 | 357.3 | 357.9 | 358.5 |
| 147.5° | 365.2 | 365.7 | 366.3 | 366.8 | 367.1 | 367.5 | 367.9 | 368.2 |
| 150°   | 374.2 | 374.2 | 374.2 | 374.2 | 374.2 | 374.2 | 374.2 | 374.2 |
| 152.5° | 383.5 | 383.7 | 383.8 | 383.7 | 383.4 | 383.1 | 382.7 | 382.4 |
| 155°   | 397.1 | 397.4 | 397.8 | 397.6 | 397.1 | 396.5 | 396.0 | 395.4 |
| 157.5° | 408.8 | 409.2 | 409.5 | 409.4 | 409.0 | 408.6 | 408.1 | 407.7 |
| 160°   | 416.0 | 416.4 | 416.8 | 416.8 | 416.5 | 416.2 | 415.9 | 415.6 |
| 162.5° | 422.8 | 423.2 | 423.6 | 423.5 | 423.0 | 422.5 | 422.0 | 421.5 |
| 165°   | 431.4 | 431.8 | 432.3 | 432.3 | 431.7 | 431.2 | 430.6 | 430.1 |
| 167.5° | 438.3 | 438.8 | 439.3 | 439.3 | 438.8 | 438.3 | 437.8 | 437.4 |
| 170°   | 442.1 | 442.7 | 443.2 | 443.2 | 442.7 | 442.1 | 441.6 | 441.0 |
| 172.5° | 445.1 | 445.6 | 446.1 | 446.1 | 445.5 | 445.0 | 444.4 | 443.9 |
| 175°   | 448.3 | 448.8 | 449.3 | 449.2 | 448.7 | 448.1 | 447.6 | 447.0 |
| 177.5° | 449.8 | 450.1 | 450.5 | 450.5 | 450.1 | 449.6 | 449.2 | 448.7 |
| 180°   | 449.9 | 449.9 | 449.9 | 449.9 | 449.9 | 449.9 | 449.9 | 449.9 |

(END OF REPORT)