

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: P331272-935

Luminaire Tested: **S122DIP-S290D925U935-4F0-1E-UDD-D4**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P331272-935  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-16,  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: S122DIP-S290D925U935-4F0-1E-UDD-D4  
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 290 LUMENS PER FOOT, DROP SATIN WHITE DIFFUSER  
UPLIGHT 925 LUMENS PER FOOT, BATWING OPTIC  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4143.0 lumens  
Efficiency: N/A  
Efficacy: 111.1 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

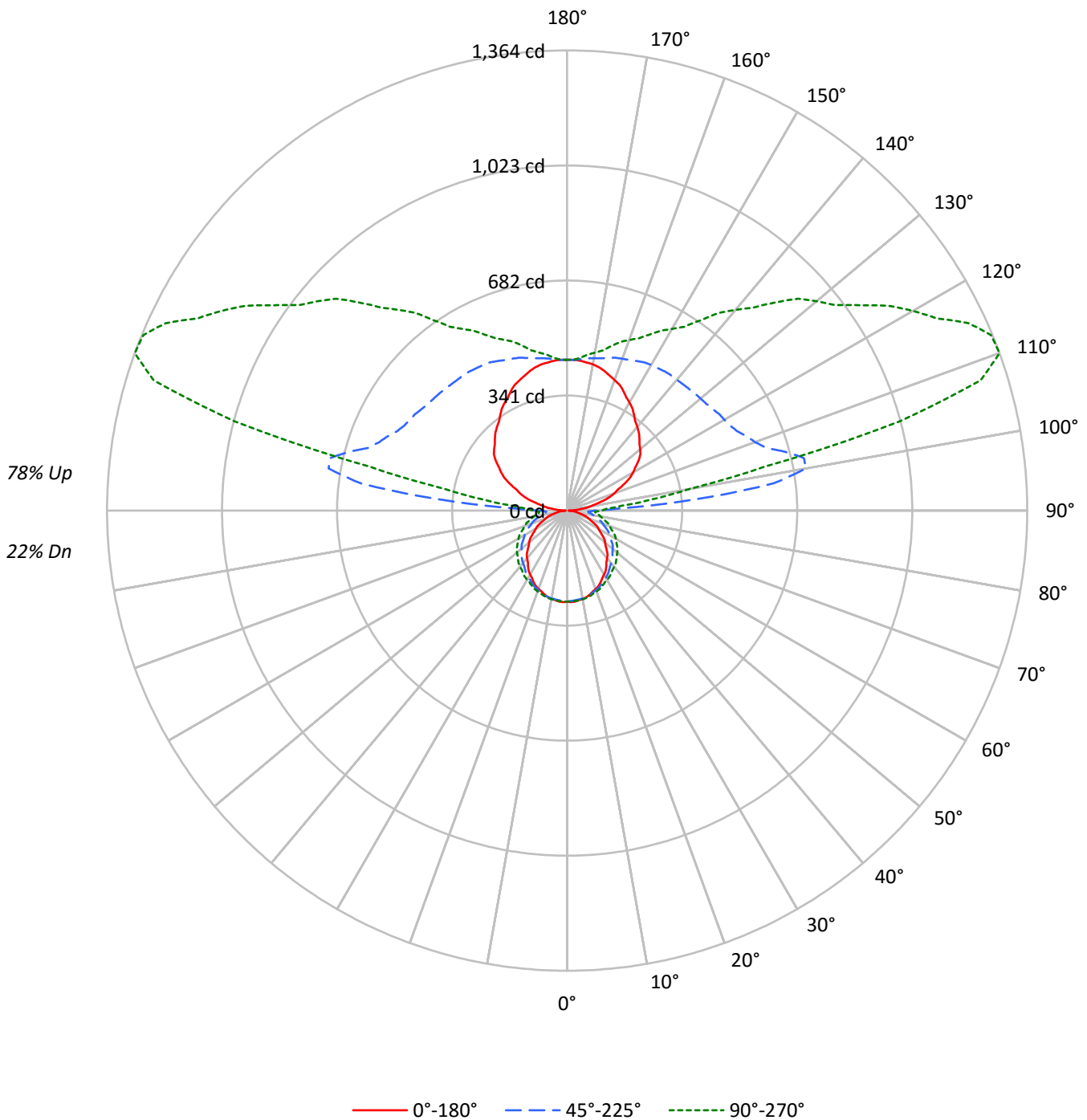
Input Watts (W): 37.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P331272-935

CATALOG NUMBER: S122DIP-S290D925U935-4F0-1E-UDD-D4

### Luminous Intensity Polar Plot





TEST NUMBER: P331272-935

CATALOG NUMBER: S122DIP-S290D925U935-4F0-1E-UDD-D4

**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   | 101 | 101 | 101 | 101 | 89 | 89 | 89 | 89 | 68 | 68 | 68 | 48 | 48 | 48 | 31 | 31 | 31 | 22 |
| 1   | 91  | 86  | 82  | 79  | 80 | 77 | 73 | 70 | 58 | 56 | 54 | 41 | 40 | 39 | 26 | 25 | 24 | 17 |
| 2   | 82  | 75  | 69  | 64  | 73 | 67 | 61 | 57 | 51 | 47 | 44 | 36 | 34 | 32 | 22 | 21 | 20 | 14 |
| 3   | 75  | 66  | 58  | 53  | 66 | 58 | 52 | 47 | 44 | 40 | 37 | 32 | 29 | 27 | 20 | 18 | 17 | 11 |
| 4   | 68  | 58  | 50  | 44  | 60 | 51 | 45 | 40 | 39 | 35 | 31 | 28 | 25 | 22 | 17 | 16 | 14 | 10 |
| 5   | 63  | 51  | 43  | 37  | 55 | 46 | 39 | 34 | 35 | 30 | 26 | 25 | 22 | 19 | 16 | 14 | 12 | 8  |
| 6   | 57  | 46  | 38  | 32  | 51 | 41 | 34 | 29 | 31 | 26 | 23 | 22 | 19 | 17 | 14 | 12 | 11 | 7  |
| 7   | 53  | 41  | 33  | 28  | 47 | 37 | 30 | 25 | 28 | 23 | 20 | 20 | 17 | 15 | 13 | 11 | 9  | 6  |
| 8   | 49  | 37  | 30  | 24  | 43 | 33 | 27 | 22 | 25 | 21 | 17 | 18 | 15 | 13 | 12 | 10 | 8  | 6  |
| 9   | 45  | 34  | 26  | 21  | 40 | 30 | 24 | 19 | 23 | 19 | 15 | 17 | 14 | 11 | 11 | 9  | 7  | 5  |
| 10  | 42  | 31  | 24  | 19  | 37 | 27 | 21 | 17 | 21 | 17 | 14 | 15 | 12 | 10 | 10 | 8  | 7  | 5  |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 4358 | 4358 | 4358 |
| 5°  | 4379 | 4195 | 4179 |
| 10° | 4352 | 4070 | 4026 |
| 15° | 4290 | 3939 | 3863 |
| 20° | 4215 | 3798 | 3707 |
| 25° | 4141 | 3663 | 3565 |
| 30° | 4034 | 3524 | 3423 |
| 35° | 3928 | 3389 | 3323 |
| 40° | 3818 | 3275 | 3223 |
| 45° | 3709 | 3172 | 3137 |
| 50° | 3596 | 3079 | 3053 |
| 55° | 3474 | 2979 | 2968 |
| 60° | 3329 | 2876 | 2878 |
| 65° | 3174 | 2756 | 2769 |
| 70° | 3001 | 2623 | 2653 |
| 75° | 2784 | 2499 | 2544 |
| 80° | 2445 | 2366 | 2436 |
| 85° | 2110 | 2255 | 2350 |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 25.6   | 0.6       |
| 10°-20°   | 73.3   | 1.8       |
| 20°-30°   | 111.1  | 2.7       |
| 30°-40°   | 135.3  | 3.3       |
| 40°-50°   | 145.6  | 3.5       |
| 50°-60°   | 141.4  | 3.4       |
| 60°-70°   | 123.5  | 3.0       |
| 70°-80°   | 95.1   | 2.3       |
| 80°-90°   | 67.8   | 1.6       |
| 90°-100°  | 222.6  | 5.4       |
| 100°-110° | 638.4  | 15.4      |
| 110°-120° | 665.3  | 16.1      |
| 120°-130° | 542.0  | 13.1      |
| 130°-140° | 430.7  | 10.4      |
| 140°-150° | 322.6  | 7.8       |
| 150°-160° | 226.1  | 5.5       |
| 160°-170° | 133.1  | 3.2       |
| 170°-180° | 43.3   | 1.0       |
| 0°-30°    | 210.0  | 5.1       |
| 0°-40°    | 345.4  | 8.3       |
| 0°-60°    | 632.4  | 15.3      |
| 0°-90°    | 918.7  | 22.2      |
| 90°-120°  | 1526.3 | 36.8      |
| 90°-150°  | 2821.7 | 68.1      |
| 90°-180°  | 3224.0 | 77.8      |
| 0°-180°   | 4143.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°  | 22.5° | 45° | 67.5° | 90°  | Flux |
|------|-----|-------|-----|-------|------|------|
| 0°   | 270 | 270   | 270 | 270   | 270  |      |
| 5°   | 271 | 269   | 267 | 269   | 269  | 26   |
| 15°  | 258 | 259   | 259 | 262   | 262  | 73   |
| 25°  | 235 | 237   | 241 | 245   | 247  | 108  |
| 35°  | 202 | 209   | 216 | 225   | 228  | 126  |
| 45°  | 166 | 177   | 190 | 202   | 206  | 128  |
| 55°  | 127 | 142   | 162 | 175   | 181  | 114  |
| 65°  | 87  | 106   | 129 | 145   | 150  | 86   |
| 75°  | 48  | 70    | 95  | 111   | 117  | 51   |
| 85°  | 14  | 38    | 63  | 79    | 85   | 15   |
| 90°  | 5   | 38    | 81  | 95    | 100  | 4    |
| 95°  | 33  | 96    | 382 | 186   | 162  | 34   |
| 105° | 107 | 172   | 670 | 1185  | 1020 | 114  |
| 115° | 186 | 240   | 556 | 1134  | 1314 | 185  |
| 125° | 259 | 307   | 526 | 914   | 1061 | 230  |
| 135° | 303 | 362   | 510 | 761   | 872  | 234  |
| 145° | 345 | 397   | 504 | 628   | 688  | 217  |
| 155° | 393 | 424   | 489 | 553   | 575  | 181  |
| 165° | 428 | 441   | 468 | 497   | 504  | 121  |
| 175° | 446 | 446   | 450 | 456   | 455  | 42   |
| 180° | 447 | 447   | 447 | 447   | 447  |      |



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**CANDELA DISTRIBUTION (FULL):**

|        | 0°    | 5°    | 10°   | 15°   | 20°   | 25°   | 30°   | 35°   | 40°   | 45°   | 50°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°     | 269.9 | 269.9 | 269.9 | 269.9 | 269.9 | 269.9 | 269.9 | 269.9 | 269.9 | 269.9 | 269.9 |
| 2.5°   | 271.5 | 271.2 | 271.0 | 270.8 | 270.6 | 270.3 | 269.8 | 269.3 | 268.8 | 268.3 | 268.6 |
| 5°     | 270.7 | 270.4 | 270.2 | 269.9 | 269.6 | 269.2 | 268.7 | 268.2 | 267.7 | 267.2 | 267.7 |
| 7.5°   | 268.2 | 268.0 | 267.9 | 267.7 | 267.5 | 267.3 | 266.8 | 266.5 | 266.0 | 265.6 | 266.3 |
| 10°    | 266.4 | 266.2 | 266.0 | 265.9 | 265.7 | 265.4 | 265.2 | 264.9 | 264.7 | 264.4 | 265.1 |
| 12.5°  | 263.2 | 263.3 | 263.3 | 263.4 | 263.4 | 263.3 | 263.1 | 262.9 | 262.7 | 262.5 | 263.2 |
| 15°    | 258.1 | 258.3 | 258.5 | 258.6 | 258.8 | 258.9 | 258.9 | 258.9 | 258.9 | 258.9 | 259.7 |
| 17.5°  | 251.6 | 251.9 | 252.3 | 252.7 | 253.0 | 253.4 | 253.7 | 253.9 | 254.2 | 254.5 | 255.3 |
| 20°    | 247.2 | 247.6 | 248.1 | 248.5 | 248.9 | 249.3 | 249.7 | 250.0 | 250.4 | 250.7 | 251.7 |
| 22.5°  | 242.5 | 243.0 | 243.5 | 244.0 | 244.5 | 245.0 | 245.5 | 246.0 | 246.5 | 246.9 | 247.9 |
| 25°    | 234.7 | 235.3 | 235.9 | 236.5 | 237.1 | 237.8 | 238.6 | 239.4 | 240.1 | 240.9 | 241.9 |
| 27.5°  | 225.3 | 226.3 | 227.3 | 228.3 | 229.3 | 230.2 | 231.1 | 232.0 | 233.0 | 233.9 | 235.2 |
| 30°    | 219.0 | 220.2 | 221.3 | 222.4 | 223.5 | 224.7 | 225.8 | 227.0 | 228.1 | 229.2 | 230.6 |
| 32.5°  | 212.2 | 213.4 | 214.6 | 215.9 | 217.2 | 218.5 | 219.9 | 221.2 | 222.6 | 223.9 | 225.5 |
| 35°    | 202.2 | 203.7 | 205.2 | 206.6 | 208.1 | 209.7 | 211.4 | 213.0 | 214.6 | 216.3 | 218.2 |
| 37.5°  | 191.4 | 193.1 | 194.8 | 196.6 | 198.2 | 200.2 | 202.3 | 204.4 | 206.6 | 208.7 | 210.9 |
| 40°    | 184.3 | 186.1 | 188.0 | 189.9 | 191.8 | 194.0 | 196.3 | 198.7 | 201.0 | 203.4 | 205.6 |
| 42.5°  | 177.4 | 179.3 | 181.2 | 183.0 | 185.0 | 187.3 | 190.0 | 192.7 | 195.4 | 198.0 | 200.5 |
| 45°    | 165.8 | 168.2 | 170.6 | 172.9 | 175.2 | 177.9 | 181.0 | 184.0 | 187.0 | 190.1 | 192.8 |
| 47.5°  | 154.5 | 157.0 | 159.6 | 162.1 | 164.7 | 167.8 | 171.3 | 174.9 | 178.5 | 182.0 | 184.9 |
| 50°    | 146.7 | 149.4 | 152.1 | 154.7 | 157.5 | 160.7 | 164.7 | 168.6 | 172.5 | 176.4 | 179.3 |
| 52.5°  | 139.1 | 142.0 | 144.8 | 147.7 | 150.5 | 153.9 | 158.1 | 162.2 | 166.3 | 170.5 | 173.5 |
| 55°    | 127.1 | 130.3 | 133.4 | 136.5 | 139.7 | 143.4 | 148.0 | 152.5 | 157.0 | 161.5 | 164.7 |
| 57.5°  | 115.2 | 118.7 | 122.3 | 125.8 | 129.3 | 133.4 | 138.0 | 142.6 | 147.2 | 151.9 | 155.2 |
| 60°    | 106.8 | 110.6 | 114.3 | 118.0 | 121.7 | 126.1 | 131.0 | 136.0 | 140.9 | 145.9 | 149.2 |
| 62.5°  | 99.3  | 103.1 | 107.0 | 110.9 | 114.8 | 119.2 | 124.2 | 129.1 | 134.1 | 139.1 | 142.5 |
| 65°    | 86.8  | 91.1  | 95.3  | 99.6  | 103.8 | 108.6 | 113.7 | 118.8 | 124.0 | 129.1 | 132.7 |
| 67.5°  | 75.4  | 79.9  | 84.3  | 88.8  | 93.2  | 98.1  | 103.3 | 108.6 | 113.8 | 119.1 | 122.7 |
| 70°    | 67.2  | 71.8  | 76.3  | 80.8  | 85.3  | 90.3  | 95.7  | 101.1 | 106.5 | 111.8 | 115.6 |
| 72.5°  | 59.8  | 64.4  | 69.1  | 73.7  | 78.4  | 83.4  | 88.9  | 94.4  | 99.9  | 105.3 | 109.0 |
| 75°    | 48.1  | 53.0  | 57.9  | 62.7  | 67.6  | 72.8  | 78.4  | 83.9  | 89.5  | 95.1  | 98.8  |
| 77.5°  | 36.9  | 41.9  | 47.0  | 52.1  | 57.3  | 62.6  | 68.3  | 73.9  | 79.6  | 85.2  | 88.9  |
| 80°    | 29.4  | 34.6  | 40.0  | 45.2  | 50.5  | 56.1  | 61.6  | 67.3  | 72.9  | 78.6  | 82.2  |
| 82.5°  | 23.1  | 28.3  | 33.6  | 38.7  | 44.0  | 49.5  | 55.2  | 61.0  | 66.6  | 72.3  | 76.0  |
| 85°    | 14.1  | 19.5  | 24.9  | 30.2  | 35.6  | 41.1  | 46.7  | 52.3  | 57.8  | 63.4  | 67.0  |
| 87.5°  | 7.8   | 13.5  | 19.4  | 24.9  | 30.5  | 36.3  | 42.8  | 49.5  | 56.1  | 61.8  | 65.3  |
| 90°    | 4.7   | 12.4  | 20.8  | 27.6  | 34.4  | 42.3  | 52.1  | 63.7  | 74.4  | 80.8  | 83.4  |
| 92.5°  | 14.1  | 23.4  | 34.3  | 42.8  | 53.3  | 66.4  | 91.2  | 123.9 | 153.6 | 160.5 | 146.5 |
| 95°    | 33.2  | 40.7  | 53.4  | 65.3  | 83.1  | 108.3 | 153.1 | 233.1 | 337.9 | 381.9 | 343.0 |
| 97.5°  | 51.7  | 60.0  | 72.8  | 88.1  | 107.5 | 135.2 | 189.9 | 299.0 | 469.7 | 616.6 | 648.1 |
| 100°   | 68.9  | 74.7  | 85.7  | 102.6 | 123.0 | 151.1 | 201.6 | 311.3 | 501.7 | 718.0 | 844.9 |
| 102.5° | 84.4  | 89.2  | 99.9  | 116.6 | 137.4 | 165.3 | 212.2 | 310.0 | 486.6 | 719.2 | 916.9 |
| 105°   | 106.8 | 112.8 | 121.3 | 136.7 | 158.1 | 185.7 | 230.6 | 311.6 | 457.9 | 670.4 | 902.0 |
| 107.5° | 131.5 | 136.2 | 144.0 | 158.0 | 178.7 | 206.1 | 249.6 | 320.6 | 442.2 | 618.4 | 823.2 |
| 110°   | 147.7 | 152.8 | 159.7 | 172.6 | 192.4 | 220.3 | 262.4 | 328.6 | 437.6 | 593.1 | 773.8 |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 5°    | 10°   | 15°   | 20°   | 25°   | 30°   | 35°   | 40°   | 45°   | 50°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 162.7 | 167.6 | 175.0 | 186.9 | 205.7 | 234.1 | 274.6 | 337.1 | 436.4 | 575.8 | 738.6 |
| 115°   | 186.3 | 191.6 | 197.7 | 209.0 | 227.1 | 252.7 | 293.6 | 349.9 | 437.2 | 556.2 | 694.7 |
| 117.5° | 210.3 | 214.4 | 220.2 | 229.9 | 247.0 | 273.2 | 311.0 | 363.8 | 440.5 | 544.9 | 665.6 |
| 120°   | 225.4 | 229.2 | 234.7 | 242.8 | 260.4 | 286.4 | 323.3 | 373.2 | 442.8 | 538.3 | 649.8 |
| 122.5° | 239.9 | 242.8 | 248.1 | 256.7 | 274.0 | 300.4 | 335.1 | 381.3 | 446.0 | 533.6 | 636.2 |
| 125°   | 258.6 | 261.1 | 266.3 | 276.6 | 293.8 | 319.3 | 353.0 | 394.4 | 450.5 | 525.5 | 616.3 |
| 127.5° | 273.7 | 277.1 | 284.2 | 295.4 | 311.9 | 337.7 | 370.0 | 406.9 | 455.6 | 519.7 | 597.8 |
| 130°   | 282.7 | 286.0 | 294.5 | 306.4 | 323.6 | 348.4 | 380.4 | 414.8 | 459.6 | 516.4 | 585.6 |
| 132.5° | 290.8 | 294.9 | 304.1 | 316.8 | 334.5 | 359.3 | 389.3 | 422.8 | 463.6 | 513.8 | 575.4 |
| 135°   | 302.9 | 306.3 | 316.6 | 329.5 | 349.3 | 373.8 | 402.1 | 433.1 | 468.3 | 510.4 | 561.2 |
| 137.5° | 314.5 | 318.7 | 329.0 | 342.7 | 362.2 | 384.8 | 412.3 | 440.7 | 472.3 | 508.0 | 550.7 |
| 140°   | 323.5 | 326.8 | 337.1 | 350.7 | 369.5 | 391.9 | 417.8 | 444.7 | 474.1 | 506.0 | 544.4 |
| 142.5° | 332.4 | 335.1 | 344.7 | 358.3 | 376.4 | 397.4 | 422.5 | 448.5 | 475.6 | 505.4 | 538.6 |
| 145°   | 345.4 | 348.9 | 357.5 | 370.4 | 387.5 | 406.5 | 429.6 | 453.7 | 477.8 | 503.5 | 531.6 |
| 147.5° | 359.9 | 362.5 | 370.7 | 382.5 | 396.8 | 413.7 | 435.5 | 456.7 | 478.5 | 500.5 | 524.6 |
| 150°   | 369.5 | 372.0 | 378.9 | 390.1 | 403.0 | 418.4 | 438.2 | 458.0 | 477.8 | 498.4 | 519.0 |
| 152.5° | 379.1 | 380.3 | 387.2 | 397.0 | 409.2 | 423.3 | 441.0 | 458.7 | 476.4 | 495.0 | 514.2 |
| 155°   | 392.7 | 393.6 | 398.7 | 408.2 | 417.6 | 430.5 | 445.1 | 459.7 | 474.3 | 489.0 | 505.2 |
| 157.5° | 404.1 | 404.9 | 409.1 | 417.2 | 424.8 | 435.7 | 448.1 | 459.7 | 470.4 | 482.8 | 496.9 |
| 160°   | 411.6 | 412.5 | 415.9 | 422.8 | 429.6 | 439.1 | 449.4 | 459.7 | 468.3 | 478.6 | 490.7 |
| 162.5° | 419.1 | 418.6 | 422.1 | 427.6 | 433.8 | 441.2 | 450.1 | 459.0 | 466.2 | 475.2 | 485.2 |
| 165°   | 427.9 | 427.1 | 428.8 | 433.9 | 438.2 | 443.4 | 451.2 | 457.2 | 462.3 | 468.3 | 476.0 |
| 167.5° | 435.1 | 434.1 | 435.7 | 438.9 | 442.0 | 445.3 | 451.0 | 456.0 | 458.3 | 462.3 | 467.1 |
| 170°   | 440.0 | 438.2 | 439.1 | 441.7 | 443.4 | 446.0 | 450.3 | 454.6 | 456.3 | 458.8 | 462.3 |
| 172.5° | 442.7 | 441.7 | 441.2 | 443.8 | 444.8 | 446.7 | 449.6 | 452.5 | 453.6 | 454.8 | 457.5 |
| 175°   | 446.0 | 445.1 | 444.3 | 446.0 | 446.0 | 446.9 | 448.6 | 450.3 | 449.4 | 450.3 | 451.2 |
| 177.5° | 447.5 | 446.2 | 445.5 | 446.9 | 446.9 | 446.9 | 447.5 | 448.9 | 447.5 | 446.9 | 447.5 |
| 180°   | 446.9 | 446.9 | 446.9 | 446.9 | 446.9 | 446.9 | 446.9 | 446.9 | 446.9 | 446.9 | 446.9 |



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**CANDELA DISTRIBUTION (continued):**

|        | 55°    | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 269.9  | 269.9  | 269.9  | 269.9  | 269.9  | 269.9  | 269.9  | 269.9  |
| 2.5°   | 269.0  | 269.3  | 269.7  | 269.8  | 269.7  | 269.5  | 269.4  | 269.2  |
| 5°     | 268.2  | 268.7  | 269.2  | 269.4  | 269.3  | 269.2  | 269.1  | 269.1  |
| 7.5°   | 266.9  | 267.5  | 268.2  | 268.5  | 268.4  | 268.3  | 268.2  | 268.1  |
| 10°    | 265.8  | 266.5  | 267.2  | 267.5  | 267.4  | 267.3  | 267.3  | 267.2  |
| 12.5°  | 263.9  | 264.6  | 265.3  | 265.6  | 265.5  | 265.4  | 265.4  | 265.3  |
| 15°    | 260.5  | 261.3  | 262.1  | 262.4  | 262.3  | 262.3  | 262.2  | 262.1  |
| 17.5°  | 256.1  | 256.9  | 257.7  | 258.1  | 258.1  | 258.1  | 258.1  | 258.1  |
| 20°    | 252.6  | 253.6  | 254.5  | 255.0  | 255.0  | 255.0  | 255.0  | 255.0  |
| 22.5°  | 248.9  | 249.9  | 250.8  | 251.3  | 251.5  | 251.6  | 251.8  | 251.9  |
| 25°    | 243.1  | 244.1  | 245.1  | 245.7  | 246.0  | 246.2  | 246.5  | 246.8  |
| 27.5°  | 236.5  | 237.9  | 239.2  | 240.0  | 240.1  | 240.3  | 240.5  | 240.7  |
| 30°    | 232.0  | 233.4  | 234.8  | 235.6  | 235.8  | 236.1  | 236.3  | 236.6  |
| 32.5°  | 227.0  | 228.7  | 230.3  | 231.4  | 231.8  | 232.3  | 232.7  | 233.2  |
| 35°    | 220.2  | 222.1  | 223.9  | 225.2  | 225.8  | 226.4  | 227.0  | 227.6  |
| 37.5°  | 212.9  | 215.1  | 217.2  | 218.6  | 219.2  | 219.9  | 220.5  | 221.1  |
| 40°    | 207.9  | 210.2  | 212.4  | 214.0  | 214.7  | 215.5  | 216.3  | 217.1  |
| 42.5°  | 203.0  | 205.4  | 207.9  | 209.6  | 210.3  | 211.1  | 211.9  | 212.7  |
| 45°    | 195.4  | 198.2  | 200.9  | 202.7  | 203.5  | 204.4  | 205.3  | 206.1  |
| 47.5°  | 187.7  | 190.5  | 193.3  | 195.2  | 196.1  | 197.1  | 198.0  | 199.0  |
| 50°    | 182.3  | 185.3  | 188.2  | 190.2  | 191.1  | 192.1  | 193.0  | 194.0  |
| 52.5°  | 176.5  | 179.5  | 182.5  | 184.6  | 185.6  | 186.7  | 187.7  | 188.6  |
| 55°    | 167.8  | 170.9  | 174.1  | 176.2  | 177.3  | 178.5  | 179.6  | 180.7  |
| 57.5°  | 158.6  | 162.0  | 165.3  | 167.6  | 168.8  | 169.9  | 171.0  | 172.2  |
| 60°    | 152.5  | 155.8  | 159.1  | 161.4  | 162.6  | 163.8  | 165.1  | 166.3  |
| 62.5°  | 146.0  | 149.6  | 153.1  | 155.4  | 156.5  | 157.6  | 158.9  | 160.0  |
| 65°    | 136.2  | 139.7  | 143.4  | 145.7  | 146.8  | 147.9  | 149.0  | 150.2  |
| 67.5°  | 126.2  | 129.8  | 133.5  | 135.9  | 137.0  | 138.2  | 139.4  | 140.6  |
| 70°    | 119.3  | 123.0  | 126.8  | 129.2  | 130.3  | 131.3  | 132.3  | 133.4  |
| 72.5°  | 112.6  | 116.3  | 119.9  | 122.4  | 123.6  | 124.9  | 126.2  | 127.4  |
| 75°    | 102.5  | 106.2  | 110.0  | 112.4  | 113.6  | 114.7  | 115.8  | 116.9  |
| 77.5°  | 92.6   | 96.3   | 100.0  | 102.5  | 103.8  | 105.0  | 106.2  | 107.4  |
| 80°    | 85.9   | 89.5   | 93.2   | 95.7   | 96.9   | 98.1   | 99.3   | 100.5  |
| 82.5°  | 79.6   | 83.3   | 87.0   | 89.4   | 90.5   | 91.7   | 92.8   | 93.9   |
| 85°    | 70.7   | 74.3   | 78.0   | 80.4   | 81.6   | 82.8   | 84.0   | 85.2   |
| 87.5°  | 68.6   | 71.8   | 75.7   | 78.2   | 79.3   | 80.4   | 81.5   | 82.7   |
| 90°    | 86.1   | 87.8   | 93.1   | 96.2   | 97.2   | 98.2   | 99.3   | 100.3  |
| 92.5°  | 130.5  | 123.3  | 119.5  | 116.4  | 116.8  | 115.0  | 116.8  | 116.4  |
| 95°    | 276.7  | 227.6  | 194.8  | 178.1  | 168.0  | 162.1  | 160.6  | 162.5  |
| 97.5°  | 573.4  | 481.1  | 391.3  | 331.4  | 291.4  | 271.2  | 259.8  | 253.6  |
| 100°   | 830.1  | 726.8  | 612.3  | 510.3  | 440.0  | 404.0  | 380.0  | 365.5  |
| 102.5° | 997.6  | 976.6  | 893.7  | 785.6  | 709.0  | 646.9  | 616.7  | 596.8  |
| 105°   | 1083.7 | 1183.9 | 1198.2 | 1171.7 | 1119.5 | 1067.1 | 1031.1 | 1020.0 |
| 107.5° | 1015.7 | 1164.8 | 1257.1 | 1300.7 | 1308.4 | 1306.4 | 1299.9 | 1285.0 |
| 110°   | 957.9  | 1114.5 | 1227.3 | 1299.6 | 1337.5 | 1354.8 | 1363.5 | 1363.6 |





TEST NUMBER: P331272-935

CATALOG NUMBER: S122DIP-S290D925U935-4F0-1E-UDD-D4

**CANDELA DISTRIBUTION (continued):**

|        | 55°   | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    |
|--------|-------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 904.8 | 1055.2 | 1175.5 | 1258.2 | 1310.5 | 1338.9 | 1354.4 | 1359.9 |
| 115°   | 839.0 | 974.0  | 1089.1 | 1179.4 | 1241.4 | 1281.9 | 1305.2 | 1313.9 |
| 117.5° | 788.7 | 907.4  | 1012.0 | 1096.8 | 1159.9 | 1202.6 | 1226.9 | 1234.4 |
| 120°   | 763.1 | 872.1  | 965.6  | 1045.5 | 1106.6 | 1148.0 | 1173.8 | 1183.4 |
| 122.5° | 742.5 | 842.5  | 931.2  | 1003.4 | 1058.2 | 1098.6 | 1121.6 | 1129.7 |
| 125°   | 712.3 | 803.1  | 881.1  | 947.1  | 997.7  | 1031.2 | 1053.4 | 1061.1 |
| 127.5° | 682.4 | 764.7  | 838.2  | 899.1  | 943.4  | 974.7  | 994.0  | 1000.3 |
| 130°   | 663.2 | 739.3  | 809.3  | 867.4  | 910.2  | 940.0  | 957.9  | 965.5  |
| 132.5° | 644.7 | 715.1  | 779.5  | 834.2  | 876.3  | 906.2  | 922.7  | 929.6  |
| 135°   | 618.9 | 677.4  | 736.0  | 785.4  | 823.0  | 852.0  | 868.2  | 872.4  |
| 137.5° | 597.8 | 646.9  | 693.4  | 736.5  | 770.8  | 795.7  | 809.9  | 815.7  |
| 140°   | 584.4 | 627.1  | 668.0  | 706.8  | 734.8  | 757.7  | 771.0  | 776.7  |
| 142.5° | 573.7 | 609.8  | 645.0  | 677.3  | 704.0  | 724.7  | 736.7  | 738.1  |
| 145°   | 558.7 | 587.6  | 614.8  | 640.2  | 661.2  | 676.2  | 685.3  | 688.3  |
| 147.5° | 547.3 | 569.7  | 590.6  | 609.0  | 626.2  | 638.1  | 644.1  | 645.9  |
| 150°   | 539.7 | 558.5  | 576.6  | 592.0  | 604.9  | 615.3  | 620.4  | 621.3  |
| 152.5° | 532.1 | 549.6  | 564.9  | 578.3  | 588.4  | 597.4  | 601.2  | 601.3  |
| 155°   | 521.6 | 535.4  | 548.2  | 557.7  | 567.1  | 573.2  | 576.6  | 574.9  |
| 157.5° | 509.4 | 520.9  | 531.8  | 539.2  | 545.8  | 550.8  | 552.3  | 552.3  |
| 160°   | 501.8 | 511.3  | 520.7  | 526.8  | 532.8  | 537.1  | 538.0  | 538.0  |
| 162.5° | 494.3 | 502.3  | 510.4  | 515.1  | 521.1  | 524.0  | 524.9  | 524.2  |
| 165°   | 482.9 | 489.0  | 495.0  | 498.4  | 501.8  | 505.2  | 505.2  | 504.4  |
| 167.5° | 472.1 | 476.7  | 480.9  | 484.0  | 485.5  | 487.4  | 487.2  | 486.2  |
| 170°   | 466.6 | 469.2  | 472.6  | 474.3  | 475.2  | 477.8  | 476.9  | 475.2  |
| 172.5° | 460.4 | 462.3  | 465.0  | 466.1  | 466.9  | 468.1  | 467.3  | 466.2  |
| 175°   | 453.7 | 454.6  | 455.5  | 456.3  | 456.3  | 457.2  | 456.3  | 454.6  |
| 177.5° | 448.9 | 448.9  | 449.6  | 449.6  | 449.6  | 449.6  | 448.9  | 447.5  |
| 180°   | 446.9 | 446.9  | 446.9  | 446.9  | 446.9  | 446.9  | 446.9  | 446.9  |

(END OF REPORT)