

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: P331317-930

Luminaire Tested: **S122DIP-S485D925U930-4F0-1E-UDD-D4**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P331317-930  
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-S485D925U930-4F0-1E-UDD-D4  
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 485 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: 4551.0 lumens  
Efficiency: N/A  
Efficacy: 102.3 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

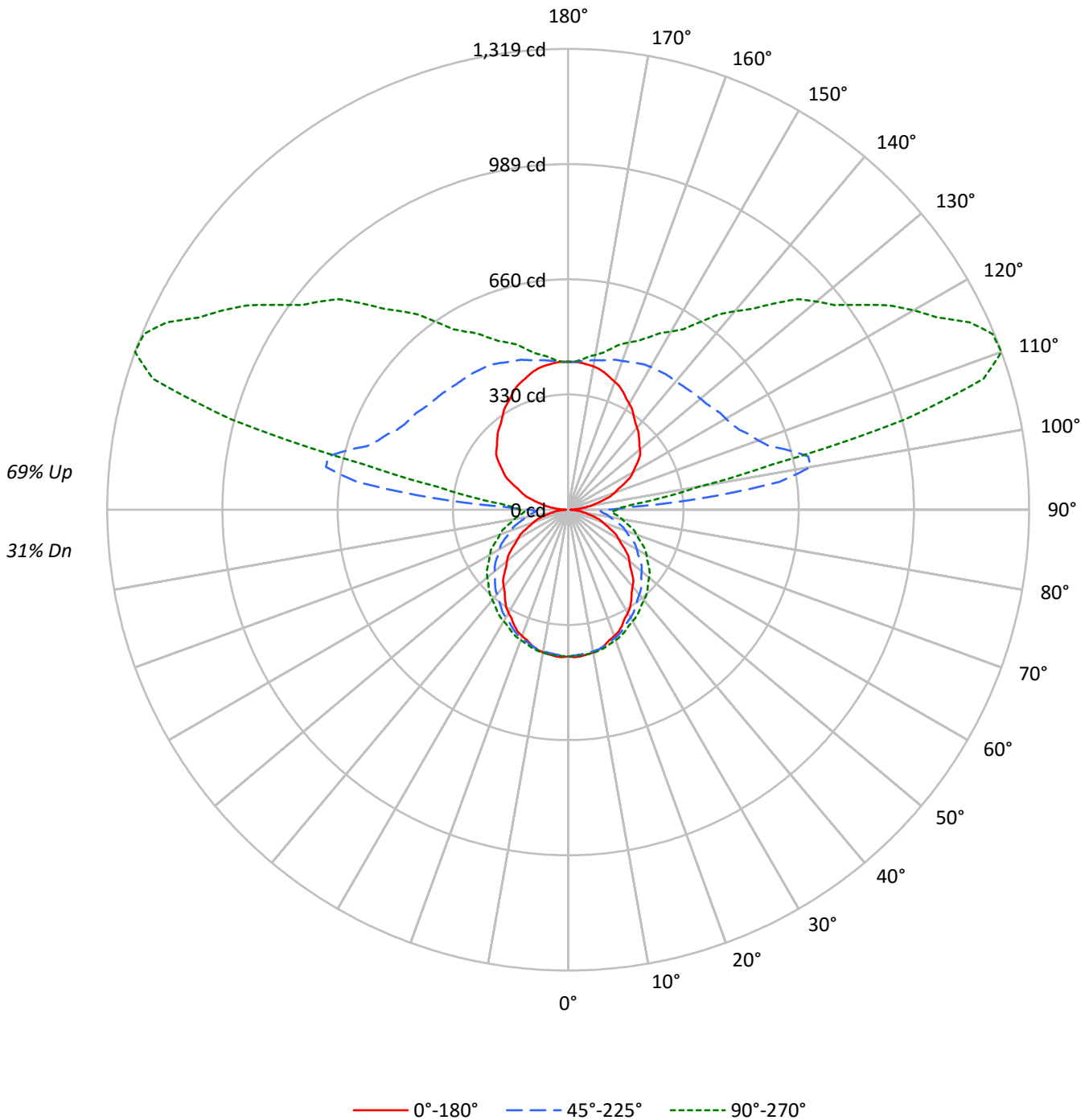
Input Watts (W): 44.5  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P331317-930

CATALOG NUMBER: S122DIP-S485D925U930-4F0-1E-UDD-D4

### Luminous Intensity Polar Plot





TEST NUMBER: P331317-930

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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 | 92 | 92 | 92 | 92 | 73 | 73 | 73 | 55 | 55 | 55 | 39 | 39 | 39 | 31 |
| 1   | 93  | 88  | 84  | 80  | 83 | 79 | 76 | 72 | 62 | 60 | 58 | 47 | 45 | 44 | 33 | 32 | 31 | 24 |
| 2   | 84  | 76  | 70  | 65  | 75 | 69 | 63 | 59 | 54 | 50 | 47 | 41 | 38 | 36 | 28 | 27 | 25 | 20 |
| 3   | 76  | 67  | 59  | 53  | 68 | 60 | 54 | 48 | 47 | 43 | 39 | 36 | 33 | 30 | 25 | 23 | 21 | 16 |
| 4   | 70  | 59  | 51  | 45  | 62 | 53 | 46 | 41 | 42 | 37 | 33 | 32 | 28 | 25 | 22 | 20 | 18 | 14 |
| 5   | 64  | 52  | 44  | 38  | 57 | 47 | 40 | 35 | 37 | 32 | 28 | 28 | 25 | 22 | 20 | 17 | 15 | 12 |
| 6   | 58  | 46  | 38  | 33  | 52 | 42 | 35 | 30 | 33 | 28 | 24 | 25 | 22 | 19 | 18 | 15 | 13 | 10 |
| 7   | 54  | 42  | 34  | 28  | 48 | 38 | 31 | 26 | 30 | 25 | 21 | 23 | 19 | 16 | 16 | 14 | 12 | 9  |
| 8   | 50  | 38  | 30  | 25  | 45 | 34 | 27 | 23 | 27 | 22 | 19 | 21 | 17 | 15 | 15 | 12 | 11 | 8  |
| 9   | 46  | 34  | 27  | 22  | 42 | 31 | 25 | 20 | 25 | 20 | 16 | 19 | 16 | 13 | 14 | 11 | 9  | 7  |
| 10  | 43  | 31  | 24  | 19  | 39 | 28 | 22 | 18 | 23 | 18 | 15 | 18 | 14 | 12 | 13 | 10 | 9  | 6  |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 6783 | 6783 | 6783 |
| 5°  | 6816 | 6530 | 6505 |
| 10° | 6774 | 6337 | 6266 |
| 15° | 6681 | 6133 | 6014 |
| 20° | 6562 | 5913 | 5771 |
| 25° | 6445 | 5701 | 5552 |
| 30° | 6282 | 5486 | 5330 |
| 35° | 6116 | 5276 | 5174 |
| 40° | 5941 | 5099 | 5017 |
| 45° | 5775 | 4940 | 4885 |
| 50° | 5598 | 4794 | 4753 |
| 55° | 5410 | 4638 | 4620 |
| 60° | 5180 | 4477 | 4479 |
| 65° | 4944 | 4290 | 4310 |
| 70° | 4679 | 4085 | 4131 |
| 75° | 4335 | 3888 | 3964 |
| 80° | 3800 | 3685 | 3794 |
| 85° | 3277 | 3510 | 3661 |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 39.8   | 0.9       |
| 10°-20°   | 114.2  | 2.5       |
| 20°-30°   | 173.0  | 3.8       |
| 30°-40°   | 210.7  | 4.6       |
| 40°-50°   | 226.7  | 5.0       |
| 50°-60°   | 220.1  | 4.8       |
| 60°-70°   | 192.2  | 4.2       |
| 70°-80°   | 148.0  | 3.3       |
| 80°-90°   | 103.1  | 2.3       |
| 90°-100°  | 237.6  | 5.2       |
| 100°-110° | 624.1  | 13.7      |
| 110°-120° | 642.9  | 14.1      |
| 120°-130° | 520.5  | 11.4      |
| 130°-140° | 410.9  | 9.0       |
| 140°-150° | 306.0  | 6.7       |
| 150°-160° | 214.1  | 4.7       |
| 160°-170° | 126.0  | 2.8       |
| 170°-180° | 41.0   | 0.9       |
| 0°-30°    | 327.0  | 7.2       |
| 0°-40°    | 537.7  | 11.8      |
| 0°-60°    | 984.5  | 21.6      |
| 0°-90°    | 1427.8 | 31.4      |
| 90°-120°  | 1504.6 | 33.1      |
| 90°-150°  | 2742.0 | 60.3      |
| 90°-180°  | 3123.0 | 68.6      |
| 0°-180°   | 4551.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°  | 22.5° | 45° | 67.5° | 90°  | Flux |
|------|-----|-------|-----|-------|------|------|
| 0°   | 420 | 420   | 420 | 420   | 420  |      |
| 5°   | 421 | 419   | 416 | 419   | 419  | 40   |
| 15°  | 402 | 403   | 403 | 408   | 408  | 113  |
| 25°  | 365 | 370   | 375 | 382   | 384  | 168  |
| 35°  | 315 | 325   | 337 | 350   | 354  | 197  |
| 45°  | 258 | 275   | 296 | 314   | 321  | 199  |
| 55°  | 198 | 220   | 251 | 273   | 281  | 177  |
| 65°  | 135 | 165   | 201 | 225   | 234  | 134  |
| 75°  | 75  | 109   | 148 | 173   | 182  | 79   |
| 85°  | 22  | 60    | 99  | 123   | 133  | 24   |
| 90°  | 7   | 53    | 108 | 130   | 139  | 6    |
| 95°  | 33  | 104   | 389 | 213   | 193  | 34   |
| 105° | 102 | 171   | 655 | 1151  | 997  | 109  |
| 115° | 177 | 231   | 541 | 1095  | 1268 | 176  |
| 125° | 245 | 291   | 506 | 880   | 1022 | 218  |
| 135° | 287 | 343   | 486 | 728   | 836  | 222  |
| 145° | 327 | 376   | 477 | 596   | 654  | 205  |
| 155° | 372 | 402   | 463 | 524   | 544  | 171  |
| 165° | 405 | 417   | 443 | 470   | 478  | 114  |
| 175° | 422 | 423   | 426 | 432   | 430  | 40   |
| 180° | 423 | 423   | 423 | 423   | 423  |      |



TEST NUMBER: P331317-930

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**CANDELA DISTRIBUTION (FULL):**

|        | 0°    | 5°    | 10°   | 15°   | 20°   | 25°   | 30°   | 35°   | 40°   | 45°   | 50°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°     | 420.1 | 420.1 | 420.1 | 420.1 | 420.1 | 420.1 | 420.1 | 420.1 | 420.1 | 420.1 | 420.1 |
| 2.5°   | 422.6 | 422.2 | 421.9 | 421.6 | 421.3 | 420.7 | 420.0 | 419.2 | 418.5 | 417.7 | 418.2 |
| 5°     | 421.3 | 420.9 | 420.5 | 420.1 | 419.7 | 419.1 | 418.3 | 417.5 | 416.7 | 415.9 | 416.7 |
| 7.5°   | 417.6 | 417.3 | 417.0 | 416.8 | 416.5 | 416.0 | 415.4 | 414.8 | 414.2 | 413.5 | 414.5 |
| 10°    | 414.7 | 414.4 | 414.1 | 413.8 | 413.6 | 413.3 | 412.9 | 412.5 | 412.1 | 411.6 | 412.7 |
| 12.5°  | 409.8 | 409.9 | 409.9 | 409.9 | 410.0 | 409.9 | 409.6 | 409.3 | 409.0 | 408.7 | 409.8 |
| 15°    | 401.9 | 402.1 | 402.4 | 402.7 | 402.9 | 403.1 | 403.1 | 403.1 | 403.1 | 403.1 | 404.3 |
| 17.5°  | 391.7 | 392.2 | 392.8 | 393.4 | 394.0 | 394.4 | 394.8 | 395.3 | 395.7 | 396.2 | 397.4 |
| 20°    | 384.8 | 385.5 | 386.2 | 386.9 | 387.5 | 388.2 | 388.7 | 389.2 | 389.8 | 390.3 | 391.8 |
| 22.5°  | 377.5 | 378.3 | 379.1 | 379.8 | 380.7 | 381.4 | 382.2 | 382.9 | 383.7 | 384.5 | 386.0 |
| 25°    | 365.3 | 366.3 | 367.2 | 368.2 | 369.1 | 370.2 | 371.5 | 372.7 | 373.9 | 375.0 | 376.7 |
| 27.5°  | 350.7 | 352.3 | 353.8 | 355.4 | 356.9 | 358.4 | 359.8 | 361.3 | 362.6 | 364.1 | 366.2 |
| 30°    | 341.0 | 342.8 | 344.5 | 346.3 | 348.1 | 349.8 | 351.6 | 353.3 | 355.1 | 356.8 | 359.0 |
| 32.5°  | 330.3 | 332.2 | 334.2 | 336.2 | 338.2 | 340.2 | 342.3 | 344.4 | 346.4 | 348.5 | 351.0 |
| 35°    | 314.8 | 317.1 | 319.4 | 321.7 | 324.0 | 326.4 | 329.0 | 331.6 | 334.1 | 336.7 | 339.7 |
| 37.5°  | 298.0 | 300.7 | 303.3 | 306.0 | 308.6 | 311.6 | 315.0 | 318.2 | 321.6 | 324.9 | 328.2 |
| 40°    | 286.8 | 289.8 | 292.8 | 295.7 | 298.7 | 302.0 | 305.7 | 309.3 | 313.0 | 316.7 | 320.2 |
| 42.5°  | 276.1 | 279.1 | 282.0 | 285.0 | 288.0 | 291.6 | 295.8 | 299.9 | 304.2 | 308.3 | 312.2 |
| 45°    | 258.2 | 261.8 | 265.5 | 269.1 | 272.8 | 277.0 | 281.7 | 286.4 | 291.2 | 296.0 | 300.1 |
| 47.5°  | 240.5 | 244.5 | 248.5 | 252.4 | 256.4 | 261.2 | 266.8 | 272.3 | 277.9 | 283.4 | 287.8 |
| 50°    | 228.4 | 232.5 | 236.8 | 240.9 | 245.1 | 250.2 | 256.3 | 262.4 | 268.6 | 274.6 | 279.2 |
| 52.5°  | 216.6 | 221.0 | 225.4 | 229.9 | 234.3 | 239.7 | 246.1 | 252.5 | 258.9 | 265.4 | 270.0 |
| 55°    | 197.9 | 202.8 | 207.7 | 212.5 | 217.4 | 223.3 | 230.4 | 237.4 | 244.4 | 251.4 | 256.3 |
| 57.5°  | 179.4 | 184.9 | 190.4 | 195.8 | 201.4 | 207.7 | 214.8 | 222.0 | 229.2 | 236.4 | 241.7 |
| 60°    | 166.2 | 172.0 | 177.9 | 183.7 | 189.5 | 196.2 | 204.0 | 211.7 | 219.4 | 227.1 | 232.3 |
| 62.5°  | 154.5 | 160.5 | 166.6 | 172.7 | 178.7 | 185.6 | 193.2 | 201.0 | 208.7 | 216.4 | 221.8 |
| 65°    | 135.2 | 141.8 | 148.5 | 155.1 | 161.7 | 169.0 | 177.0 | 185.0 | 193.0 | 201.0 | 206.5 |
| 67.5°  | 117.4 | 124.3 | 131.3 | 138.2 | 145.1 | 152.6 | 160.9 | 169.0 | 177.2 | 185.3 | 190.9 |
| 70°    | 104.8 | 111.8 | 118.8 | 125.8 | 132.9 | 140.6 | 149.0 | 157.4 | 165.8 | 174.1 | 179.9 |
| 72.5°  | 93.0  | 100.3 | 107.5 | 114.8 | 122.1 | 130.0 | 138.4 | 146.9 | 155.4 | 163.9 | 169.7 |
| 75°    | 74.9  | 82.5  | 90.0  | 97.6  | 105.2 | 113.3 | 122.0 | 130.6 | 139.3 | 148.0 | 153.8 |
| 77.5°  | 57.4  | 65.3  | 73.2  | 81.1  | 89.1  | 97.4  | 106.2 | 115.0 | 123.8 | 132.6 | 138.4 |
| 80°    | 45.7  | 53.9  | 62.2  | 70.4  | 78.7  | 87.2  | 96.0  | 104.8 | 113.6 | 122.4 | 128.1 |
| 82.5°  | 36.0  | 44.1  | 52.2  | 60.3  | 68.5  | 77.0  | 85.9  | 94.8  | 103.7 | 112.7 | 118.3 |
| 85°    | 21.9  | 30.3  | 38.7  | 47.1  | 55.4  | 64.0  | 72.6  | 81.3  | 90.0  | 98.7  | 104.4 |
| 87.5°  | 12.1  | 20.6  | 29.4  | 37.7  | 46.1  | 55.0  | 64.5  | 74.3  | 83.9  | 92.7  | 98.1  |
| 90°    | 6.9   | 17.2  | 28.3  | 37.7  | 47.2  | 58.0  | 70.7  | 85.0  | 98.6  | 108.0 | 112.7 |
| 92.5°  | 15.5  | 27.2  | 40.4  | 51.3  | 64.1  | 79.6  | 106.3 | 140.6 | 171.9 | 181.7 | 170.6 |
| 95°    | 33.3  | 43.0  | 57.5  | 71.2  | 90.5  | 117.3 | 162.8 | 241.7 | 344.2 | 389.0 | 354.2 |
| 97.5°  | 50.6  | 60.7  | 75.0  | 91.7  | 112.3 | 141.2 | 196.0 | 302.4 | 467.1 | 609.3 | 641.0 |
| 100°   | 66.9  | 74.4  | 86.7  | 104.7 | 126.0 | 155.1 | 205.8 | 312.6 | 495.9 | 703.7 | 825.9 |
| 102.5° | 81.4  | 87.7  | 99.6  | 117.2 | 138.8 | 167.5 | 214.7 | 310.3 | 480.4 | 703.5 | 892.7 |
| 105°   | 102.3 | 109.5 | 119.1 | 135.3 | 157.1 | 185.3 | 230.6 | 310.1 | 451.3 | 655.3 | 876.5 |
| 107.5° | 125.6 | 131.3 | 140.1 | 154.4 | 175.3 | 203.2 | 247.0 | 316.9 | 434.6 | 604.1 | 799.9 |
| 110°   | 140.8 | 146.8 | 154.3 | 167.6 | 187.4 | 215.6 | 258.1 | 323.3 | 429.2 | 579.0 | 751.8 |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 5°    | 10°   | 15°   | 20°   | 25°   | 30°   | 35°   | 40°   | 45°   | 50°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 155.1 | 160.6 | 168.4 | 180.6 | 199.3 | 227.9 | 268.6 | 330.3 | 426.8 | 561.3 | 717.1 |
| 115°   | 177.4 | 183.0 | 189.3 | 200.6 | 218.3 | 244.1 | 285.2 | 340.9 | 425.9 | 541.0 | 673.7 |
| 117.5° | 199.9 | 204.1 | 209.9 | 219.6 | 236.2 | 262.3 | 300.3 | 352.5 | 427.2 | 528.4 | 644.2 |
| 120°   | 214.2 | 218.0 | 223.4 | 231.3 | 248.1 | 273.9 | 311.0 | 360.4 | 428.4 | 520.9 | 628.0 |
| 122.5° | 227.9 | 230.7 | 235.8 | 244.0 | 260.5 | 286.6 | 321.4 | 367.2 | 430.4 | 515.4 | 613.9 |
| 125°   | 245.3 | 247.8 | 252.7 | 262.4 | 278.7 | 303.6 | 337.3 | 378.2 | 433.0 | 505.6 | 593.1 |
| 127.5° | 259.7 | 262.8 | 269.5 | 280.1 | 295.5 | 320.7 | 352.6 | 389.0 | 436.4 | 498.5 | 573.8 |
| 130°   | 268.1 | 271.3 | 279.2 | 290.5 | 306.6 | 330.8 | 362.1 | 395.8 | 439.4 | 494.3 | 561.0 |
| 132.5° | 275.9 | 279.7 | 288.4 | 300.3 | 317.1 | 340.9 | 370.2 | 402.7 | 442.3 | 490.7 | 550.2 |
| 135°   | 287.1 | 290.2 | 300.0 | 312.3 | 330.9 | 354.4 | 381.8 | 411.6 | 445.6 | 486.0 | 535.2 |
| 137.5° | 298.1 | 302.0 | 311.7 | 324.7 | 343.2 | 364.7 | 390.9 | 418.1 | 448.3 | 482.2 | 523.7 |
| 140°   | 306.6 | 309.7 | 319.3 | 332.2 | 349.9 | 371.2 | 395.8 | 421.3 | 449.3 | 479.6 | 516.8 |
| 142.5° | 315.0 | 317.5 | 326.4 | 339.3 | 356.4 | 376.3 | 400.1 | 424.7 | 450.5 | 478.7 | 510.9 |
| 145°   | 327.1 | 330.4 | 338.5 | 350.7 | 367.0 | 384.9 | 406.8 | 429.7 | 452.4 | 476.8 | 503.7 |
| 147.5° | 340.8 | 343.2 | 351.0 | 362.2 | 375.8 | 391.8 | 412.4 | 432.4 | 453.1 | 473.9 | 496.8 |
| 150°   | 349.9 | 352.3 | 358.8 | 369.4 | 381.6 | 396.2 | 415.0 | 433.7 | 452.4 | 472.0 | 491.5 |
| 152.5° | 359.0 | 360.1 | 366.6 | 375.9 | 387.5 | 400.8 | 417.6 | 434.3 | 451.1 | 468.7 | 486.9 |
| 155°   | 371.9 | 372.7 | 377.6 | 386.5 | 395.4 | 407.6 | 421.5 | 435.3 | 449.1 | 463.0 | 478.4 |
| 157.5° | 382.6 | 383.4 | 387.3 | 395.1 | 402.3 | 412.5 | 424.3 | 435.3 | 445.4 | 457.1 | 470.5 |
| 160°   | 389.8 | 390.6 | 393.8 | 400.3 | 406.8 | 415.8 | 425.6 | 435.3 | 443.4 | 453.2 | 464.6 |
| 162.5° | 396.9 | 396.4 | 399.7 | 404.9 | 410.7 | 417.8 | 426.2 | 434.6 | 441.5 | 450.0 | 459.4 |
| 165°   | 405.2 | 404.4 | 406.0 | 410.9 | 415.0 | 419.9 | 427.2 | 432.9 | 437.7 | 443.4 | 450.8 |
| 167.5° | 412.1 | 411.1 | 412.5 | 415.6 | 418.6 | 421.7 | 427.1 | 431.8 | 434.0 | 437.7 | 442.3 |
| 170°   | 416.6 | 415.0 | 415.8 | 418.2 | 419.9 | 422.3 | 426.4 | 430.5 | 432.1 | 434.5 | 437.7 |
| 172.5° | 419.2 | 418.2 | 417.8 | 420.2 | 421.2 | 423.0 | 425.7 | 428.5 | 429.5 | 430.6 | 433.3 |
| 175°   | 422.3 | 421.5 | 420.7 | 422.3 | 422.3 | 423.1 | 424.8 | 426.4 | 425.6 | 426.4 | 427.2 |
| 177.5° | 423.8 | 422.5 | 421.8 | 423.1 | 423.1 | 423.1 | 423.8 | 425.1 | 423.8 | 423.1 | 423.8 |
| 180°   | 423.1 | 423.1 | 423.1 | 423.1 | 423.1 | 423.1 | 423.1 | 423.1 | 423.1 | 423.1 | 423.1 |



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**CANDELA DISTRIBUTION (continued):**

|        | 55°    | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 420.1  | 420.1  | 420.1  | 420.1  | 420.1  | 420.1  | 420.1  | 420.1  |
| 2.5°   | 418.8  | 419.3  | 419.9  | 420.0  | 419.8  | 419.6  | 419.4  | 419.1  |
| 5°     | 417.5  | 418.3  | 419.1  | 419.5  | 419.3  | 419.2  | 419.1  | 418.9  |
| 7.5°   | 415.5  | 416.5  | 417.4  | 417.8  | 417.8  | 417.6  | 417.4  | 417.4  |
| 10°    | 413.8  | 414.8  | 416.0  | 416.5  | 416.3  | 416.1  | 416.0  | 415.9  |
| 12.5°  | 410.8  | 412.0  | 413.0  | 413.5  | 413.4  | 413.2  | 413.1  | 412.9  |
| 15°    | 405.5  | 406.8  | 408.0  | 408.5  | 408.4  | 408.2  | 408.1  | 408.0  |
| 17.5°  | 398.7  | 400.0  | 401.2  | 401.9  | 401.9  | 401.9  | 401.9  | 401.9  |
| 20°    | 393.3  | 394.8  | 396.2  | 397.0  | 397.0  | 397.0  | 397.0  | 397.0  |
| 22.5°  | 387.4  | 388.9  | 390.4  | 391.3  | 391.5  | 391.7  | 391.9  | 392.2  |
| 25°    | 378.3  | 379.9  | 381.6  | 382.6  | 383.0  | 383.4  | 383.8  | 384.3  |
| 27.5°  | 368.3  | 370.3  | 372.3  | 373.5  | 373.8  | 374.1  | 374.4  | 374.7  |
| 30°    | 361.2  | 363.3  | 365.5  | 366.7  | 367.1  | 367.5  | 367.9  | 368.4  |
| 32.5°  | 353.5  | 356.0  | 358.5  | 360.1  | 360.9  | 361.6  | 362.3  | 363.1  |
| 35°    | 342.7  | 345.7  | 348.6  | 350.6  | 351.6  | 352.5  | 353.4  | 354.4  |
| 37.5°  | 331.5  | 334.8  | 338.1  | 340.2  | 341.3  | 342.3  | 343.2  | 344.3  |
| 40°    | 323.7  | 327.2  | 330.7  | 333.0  | 334.3  | 335.5  | 336.7  | 337.9  |
| 42.5°  | 316.0  | 319.8  | 323.7  | 326.3  | 327.4  | 328.6  | 329.9  | 331.1  |
| 45°    | 304.4  | 308.5  | 312.7  | 315.4  | 316.8  | 318.2  | 319.5  | 320.9  |
| 47.5°  | 292.1  | 296.5  | 300.9  | 303.9  | 305.3  | 306.8  | 308.3  | 309.8  |
| 50°    | 283.8  | 288.4  | 293.0  | 296.0  | 297.6  | 299.1  | 300.5  | 302.0  |
| 52.5°  | 274.8  | 279.5  | 284.2  | 287.3  | 288.9  | 290.6  | 292.1  | 293.8  |
| 55°    | 261.2  | 266.1  | 270.9  | 274.3  | 276.1  | 277.8  | 279.6  | 281.3  |
| 57.5°  | 246.9  | 252.1  | 257.4  | 260.9  | 262.7  | 264.5  | 266.3  | 268.1  |
| 60°    | 237.4  | 242.6  | 247.7  | 251.2  | 253.1  | 255.0  | 256.9  | 258.8  |
| 62.5°  | 227.3  | 232.8  | 238.2  | 241.9  | 243.7  | 245.5  | 247.3  | 249.1  |
| 65°    | 212.1  | 217.6  | 223.1  | 226.8  | 228.5  | 230.3  | 232.0  | 233.8  |
| 67.5°  | 196.6  | 202.1  | 207.7  | 211.5  | 213.3  | 215.2  | 217.0  | 218.8  |
| 70°    | 185.8  | 191.6  | 197.4  | 201.1  | 202.8  | 204.4  | 206.0  | 207.7  |
| 72.5°  | 175.4  | 181.1  | 186.8  | 190.6  | 192.5  | 194.4  | 196.4  | 198.4  |
| 75°    | 159.6  | 165.4  | 171.2  | 175.0  | 176.8  | 178.6  | 180.3  | 182.1  |
| 77.5°  | 144.2  | 150.0  | 155.8  | 159.6  | 161.5  | 163.4  | 165.3  | 167.2  |
| 80°    | 133.8  | 139.4  | 145.1  | 148.9  | 150.8  | 152.7  | 154.6  | 156.5  |
| 82.5°  | 124.0  | 129.7  | 135.3  | 139.1  | 140.9  | 142.7  | 144.5  | 146.3  |
| 85°    | 110.0  | 115.7  | 121.4  | 125.1  | 127.0  | 129.0  | 130.9  | 132.7  |
| 87.5°  | 103.5  | 108.6  | 114.5  | 118.3  | 120.0  | 121.7  | 123.4  | 125.2  |
| 90°    | 117.2  | 121.0  | 128.1  | 132.4  | 134.0  | 135.7  | 137.3  | 138.9  |
| 92.5°  | 157.5  | 152.8  | 151.2  | 149.7  | 150.7  | 149.6  | 151.9  | 152.2  |
| 95°    | 293.5  | 249.0  | 220.0  | 205.5  | 196.5  | 191.6  | 190.8  | 193.2  |
| 97.5°  | 572.3  | 486.8  | 403.8  | 348.3  | 311.0  | 292.6  | 282.3  | 277.1  |
| 100°   | 813.8  | 717.9  | 611.5  | 516.2  | 450.2  | 416.7  | 394.6  | 381.4  |
| 102.5° | 970.9  | 953.1  | 876.4  | 775.3  | 703.4  | 645.1  | 617.2  | 598.8  |
| 105°   | 1050.4 | 1147.1 | 1162.5 | 1138.7 | 1089.7 | 1040.8 | 1007.3 | 997.4  |
| 107.5° | 983.9  | 1126.9 | 1216.1 | 1258.5 | 1266.3 | 1265.1 | 1259.6 | 1245.9 |
| 110°   | 927.8  | 1077.8 | 1186.3 | 1255.9 | 1292.4 | 1309.4 | 1318.2 | 1318.8 |





TEST NUMBER: P331317-930

CATALOG NUMBER: S122DIP-S485D925U930-4F0-1E-UDD-D4

**CANDELA DISTRIBUTION (continued):**

|        | 55°   | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    |
|--------|-------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 876.3 | 1020.3 | 1136.0 | 1215.4 | 1265.6 | 1292.9 | 1308.2 | 1314.1 |
| 115°   | 812.0 | 941.3  | 1052.0 | 1138.6 | 1197.8 | 1236.7 | 1259.4 | 1268.2 |
| 117.5° | 762.3 | 876.3  | 977.0  | 1058.3 | 1118.5 | 1159.4 | 1183.2 | 1190.7 |
| 120°   | 736.8 | 841.5  | 931.5  | 1008.2 | 1066.7 | 1106.4 | 1131.5 | 1141.1 |
| 122.5° | 716.1 | 812.2  | 897.6  | 966.9  | 1019.3 | 1058.2 | 1080.4 | 1088.5 |
| 125°   | 685.5 | 772.9  | 848.2  | 911.7  | 960.1  | 992.2  | 1013.7 | 1021.5 |
| 127.5° | 655.3 | 734.4  | 805.4  | 864.0  | 906.3  | 936.5  | 955.2  | 961.6  |
| 130°   | 635.9 | 709.1  | 776.6  | 832.5  | 873.4  | 902.2  | 919.5  | 927.2  |
| 132.5° | 617.1 | 685.0  | 747.2  | 799.8  | 840.1  | 868.9  | 884.8  | 891.9  |
| 135°   | 590.9 | 647.4  | 704.0  | 751.5  | 787.6  | 815.5  | 831.3  | 835.6  |
| 137.5° | 569.2 | 616.7  | 661.8  | 703.2  | 736.1  | 760.0  | 773.8  | 779.7  |
| 140°   | 555.6 | 596.8  | 636.4  | 673.7  | 700.6  | 722.5  | 735.6  | 741.3  |
| 142.5° | 544.6 | 579.6  | 613.5  | 644.7  | 670.2  | 690.1  | 701.6  | 703.4  |
| 145°   | 529.7 | 557.3  | 583.4  | 607.7  | 627.9  | 642.5  | 651.3  | 654.4  |
| 147.5° | 518.4 | 539.6  | 559.5  | 576.9  | 593.4  | 604.7  | 610.6  | 612.4  |
| 150°   | 511.0 | 528.9  | 546.0  | 560.6  | 572.8  | 582.6  | 587.5  | 588.3  |
| 152.5° | 503.9 | 520.4  | 534.9  | 547.6  | 557.2  | 565.7  | 569.2  | 569.4  |
| 155°   | 493.9 | 507.0  | 519.1  | 528.1  | 537.0  | 542.7  | 546.0  | 544.4  |
| 157.5° | 482.3 | 493.3  | 503.5  | 510.5  | 516.8  | 521.5  | 523.0  | 523.0  |
| 160°   | 475.2 | 484.1  | 493.1  | 498.8  | 504.5  | 508.6  | 509.4  | 509.4  |
| 162.5° | 468.1 | 475.6  | 483.3  | 487.7  | 493.4  | 496.2  | 497.0  | 496.4  |
| 165°   | 457.3 | 463.0  | 468.7  | 472.0  | 475.2  | 478.4  | 478.4  | 477.6  |
| 167.5° | 447.0 | 451.4  | 455.3  | 458.3  | 459.7  | 461.5  | 461.4  | 460.4  |
| 170°   | 441.8 | 444.3  | 447.5  | 449.1  | 450.0  | 452.4  | 451.6  | 450.0  |
| 172.5° | 435.9 | 437.7  | 440.3  | 441.3  | 442.1  | 443.3  | 442.5  | 441.5  |
| 175°   | 429.7 | 430.5  | 431.3  | 432.1  | 432.1  | 432.9  | 432.1  | 430.5  |
| 177.5° | 425.1 | 425.1  | 425.7  | 425.7  | 425.7  | 425.7  | 425.1  | 423.8  |
| 180°   | 423.1 | 423.1  | 423.1  | 423.1  | 423.1  | 423.1  | 423.1  | 423.1  |

(END OF REPORT)