

Scaled data based on original data using  
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions

Brand: NEO-RAY

Report Number: P1007497

Luminaire Tested: S123IP-B1025UB50-4F0-XX-W2A-4

Issue Date: 5/5/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1007497  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-17)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/5/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S123IP-B1025UB50-4F0-XX-W2A-4  
Description: Define 3 Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}  
Light Source: -  
Ballast/Driver: -

**Summary**

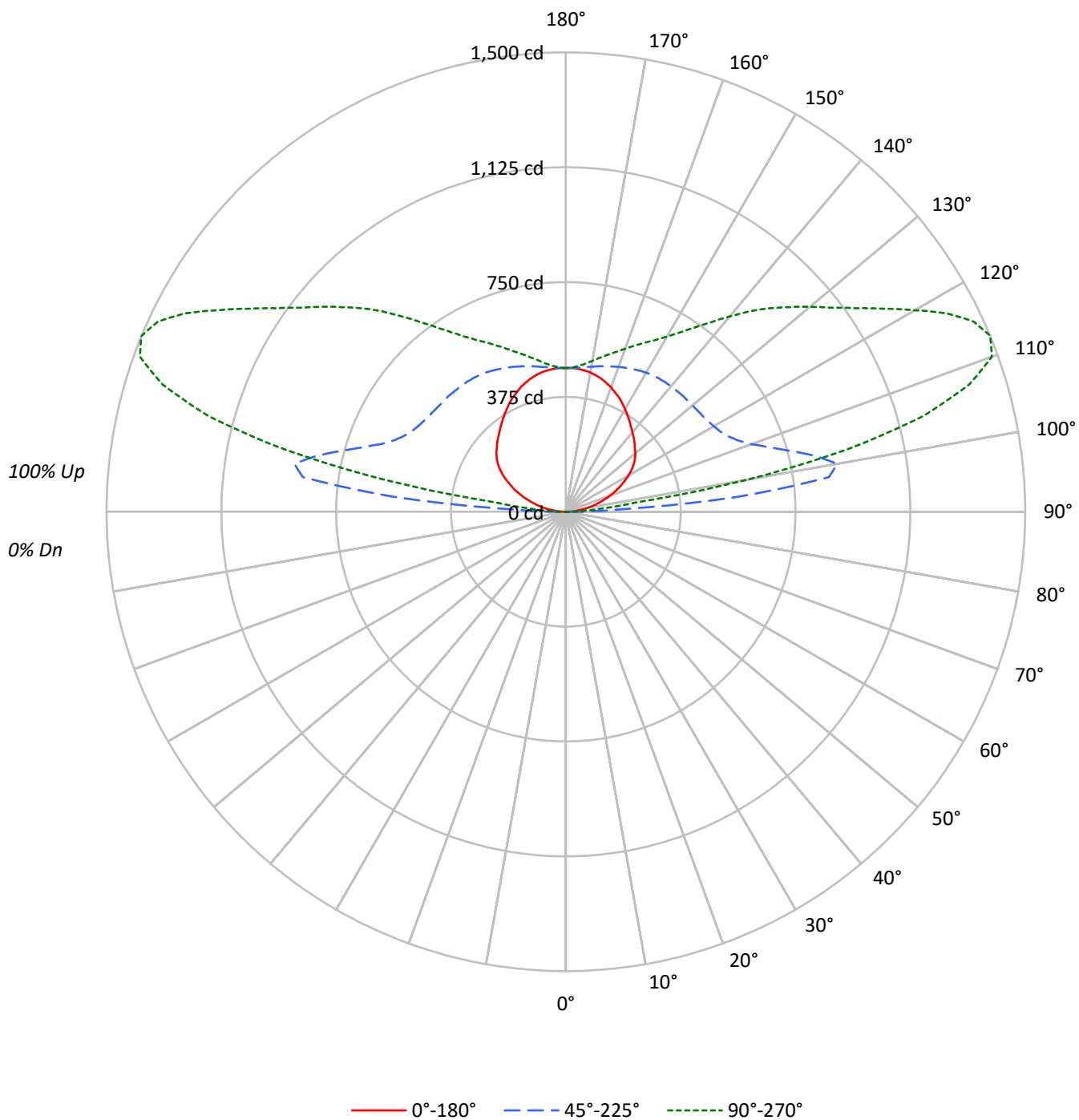
Lumens per Lamp: N/A  
Luminaire Lumens: 3533.0 lumens  
Efficiency: N/A  
Efficacy: 124.0 lumens/watt  
Spacing Criteria (0/90/45): - / - / -  
Luminous Opening: Rectangular (W 0.25' x L: 4' x H: 0')  
CIE Type: Indirect

Input Watts (W): 28.5  
Input Voltage (V):  
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: 24 FT

TEST NUMBER: P1007497

CATALOG NUMBER: S123IP-B1025UB50-4F0-XX-W2A-4

### Luminous Intensity Polar Plot



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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

|     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|-----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| RF  | 20 |    |    |    | 20 |    |    |    | 20 |    |    |    | 20 |    |    |    | 20 |
| RC  | 80 |    |    |    | 70 |    |    |    | 50 |    |    |    | 30 |    |    |    | 10 |
| RW  | 70 | 50 | 30 | 10 | 70 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 |
| RCR |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 0   | 95 | 95 | 95 | 95 | 81 | 81 | 81 | 81 | 56 | 56 | 56 | 32 | 32 | 32 | 10 | 10 | 10 |
| 1   | 87 | 83 | 79 | 76 | 74 | 71 | 68 | 65 | 48 | 47 | 45 | 28 | 27 | 26 | 9  | 9  | 8  |
| 2   | 79 | 72 | 66 | 62 | 67 | 62 | 57 | 53 | 42 | 40 | 37 | 24 | 23 | 22 | 8  | 7  | 7  |
| 3   | 72 | 63 | 56 | 51 | 61 | 54 | 49 | 44 | 37 | 34 | 31 | 21 | 20 | 18 | 7  | 6  | 6  |
| 4   | 65 | 56 | 48 | 43 | 56 | 48 | 42 | 37 | 33 | 29 | 26 | 19 | 17 | 16 | 6  | 6  | 5  |
| 5   | 60 | 49 | 42 | 36 | 51 | 42 | 36 | 32 | 29 | 25 | 22 | 17 | 15 | 13 | 5  | 5  | 4  |
| 6   | 55 | 44 | 36 | 31 | 47 | 38 | 32 | 27 | 26 | 22 | 19 | 15 | 13 | 11 | 5  | 4  | 4  |
| 7   | 50 | 39 | 32 | 27 | 43 | 34 | 28 | 23 | 23 | 19 | 17 | 14 | 11 | 10 | 4  | 4  | 3  |
| 8   | 47 | 35 | 28 | 23 | 40 | 30 | 24 | 20 | 21 | 17 | 14 | 12 | 10 | 9  | 4  | 3  | 3  |
| 9   | 43 | 32 | 25 | 20 | 37 | 27 | 22 | 18 | 19 | 15 | 13 | 11 | 9  | 8  | 4  | 3  | 3  |
| 10  | 40 | 29 | 22 | 18 | 34 | 25 | 19 | 16 | 17 | 14 | 11 | 10 | 8  | 7  | 3  | 3  | 2  |

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

|     | 0° | 45° | 90° |
|-----|----|-----|-----|
| 0°  | 0  | 0   | 0   |
| 5°  | 0  | 0   | 0   |
| 10° | 0  | 0   | 0   |
| 15° | 0  | 0   | 0   |
| 20° | 0  | 0   | 0   |
| 25° | 0  | 0   | 0   |
| 30° | 0  | 0   | 0   |
| 35° | 0  | 0   | 0   |
| 40° | 0  | 0   | 0   |
| 45° | 0  | 0   | 0   |
| 50° | 0  | 0   | 0   |
| 55° | 0  | 0   | 0   |
| 60° | 0  | 0   | 0   |
| 65° | 0  | 0   | 0   |
| 70° | 0  | 0   | 0   |
| 75° | 0  | 0   | 0   |
| 80° | 0  | 0   | 0   |
| 85° | 0  | 0   | 0   |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
Vertical Angle: 0°  
Luminance: 0 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 0.0    | 0.0       |
| 10°-20°   | 0.0    | 0.0       |
| 20°-30°   | 0.0    | 0.0       |
| 30°-40°   | 0.0    | 0.0       |
| 40°-50°   | 0.0    | 0.0       |
| 50°-60°   | 0.0    | 0.0       |
| 60°-70°   | 0.0    | 0.0       |
| 70°-80°   | 0.0    | 0.0       |
| 80°-90°   | 2.6    | 0.1       |
| 90°-100°  | 254.7  | 7.2       |
| 100°-110° | 745.6  | 21.1      |
| 110°-120° | 728.1  | 20.6      |
| 120°-130° | 579.9  | 16.4      |
| 130°-140° | 457.5  | 12.9      |
| 140°-150° | 341.3  | 9.7       |
| 150°-160° | 238.0  | 6.7       |
| 160°-170° | 139.8  | 4.0       |
| 170°-180° | 45.5   | 1.3       |
| 0°-30°    | 0.0    | 0.0       |
| 0°-40°    | 0.0    | 0.0       |
| 0°-60°    | 0.0    | 0.0       |
| 0°-90°    | 2.6    | 0.1       |
| 90°-120°  | 1728.5 | 48.9      |
| 90°-150°  | 3107.2 | 87.9      |
| 90°-180°  | 3530.0 | 99.9      |
| 0°-180°   | 3533.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°  | 22.5° | 45° | 67.5° | 90°  | Flux |
|------|-----|-------|-----|-------|------|------|
| 0°   | 0   | 0     | 0   | 0     | 0    |      |
| 5°   | 0   | 0     | 0   | 0     | 0    | 0    |
| 15°  | 0   | 0     | 0   | 0     | 0    | 0    |
| 25°  | 0   | 0     | 0   | 0     | 0    | 0    |
| 35°  | 0   | 0     | 0   | 0     | 0    | 0    |
| 45°  | 0   | 0     | 0   | 0     | 0    | 0    |
| 55°  | 0   | 0     | 0   | 0     | 0    | 0    |
| 65°  | 0   | 0     | 0   | 0     | 0    | 0    |
| 75°  | 0   | 0     | 0   | 0     | 0    | 0    |
| 85°  | 0   | 0     | 0   | 0     | 0    | 0    |
| 90°  | 2   | 11    | 24  | 27    | 28   | 2    |
| 95°  | 32  | 105   | 563 | 164   | 110  | 34   |
| 105° | 110 | 163   | 764 | 1336  | 1208 | 117  |
| 115° | 195 | 243   | 584 | 1281  | 1470 | 193  |
| 125° | 271 | 320   | 545 | 988   | 1159 | 241  |
| 135° | 317 | 379   | 538 | 814   | 940  | 245  |
| 145° | 362 | 415   | 531 | 667   | 734  | 227  |
| 155° | 411 | 444   | 514 | 584   | 609  | 189  |
| 165° | 449 | 462   | 492 | 522   | 531  | 127  |
| 175° | 468 | 469   | 472 | 479   | 478  | 44   |
| 180° | 469 | 469   | 469 | 469   | 469  |      |

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**CANDELA DISTRIBUTION (FULL):**

|        | 0°    | 5°    | 10°   | 15°   | 20°   | 25°   | 30°   | 35°   | 40°   | 45°   | 50°    |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| 0°     | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    |
| 2.5°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    |
| 5°     | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    |
| 7.5°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    |
| 10°    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    |
| 12.5°  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    |
| 15°    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    |
| 17.5°  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    |
| 20°    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    |
| 22.5°  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    |
| 25°    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    |
| 27.5°  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    |
| 30°    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    |
| 32.5°  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    |
| 35°    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    |
| 37.5°  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    |
| 40°    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    |
| 42.5°  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    |
| 45°    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    |
| 47.5°  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    |
| 50°    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    |
| 52.5°  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    |
| 55°    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    |
| 57.5°  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    |
| 60°    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    |
| 62.5°  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    |
| 65°    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    |
| 67.5°  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    |
| 70°    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    |
| 72.5°  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    |
| 75°    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    |
| 77.5°  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    |
| 80°    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    |
| 82.5°  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    |
| 85°    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    |
| 87.5°  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    |
| 90°    | 1.9   | 3.8   | 5.7   | 8.6   | 10.5  | 12.4  | 15.2  | 18.1  | 20.9  | 23.8  | 22.8   |
| 92.5°  | 14.3  | 20.9  | 30.4  | 39.0  | 48.5  | 65.6  | 96.0  | 146.3 | 195.7 | 176.7 | 132.1  |
| 95°    | 32.3  | 35.2  | 45.6  | 61.8  | 86.5  | 123.5 | 204.3 | 345.8 | 501.6 | 563.4 | 457.0  |
| 97.5°  | 51.3  | 52.3  | 60.8  | 75.1  | 99.8  | 140.6 | 220.4 | 384.8 | 647.0 | 866.5 | 895.9  |
| 100°   | 70.3  | 71.3  | 77.9  | 91.2  | 114.0 | 151.1 | 217.6 | 358.2 | 608.0 | 899.7 | 1086.9 |
| 102.5° | 90.3  | 92.2  | 97.9  | 110.2 | 130.2 | 163.4 | 221.4 | 335.4 | 551.0 | 838.0 | 1096.4 |
| 105°   | 110.2 | 113.1 | 118.8 | 130.2 | 148.2 | 177.7 | 229.0 | 326.8 | 506.4 | 763.9 | 1036.5 |
| 107.5° | 131.1 | 134.0 | 139.7 | 151.1 | 168.2 | 195.7 | 241.3 | 324.9 | 474.1 | 698.3 | 951.0  |
| 110°   | 153.9 | 156.8 | 161.5 | 172.0 | 188.1 | 214.7 | 257.5 | 329.7 | 457.0 | 644.2 | 871.2  |

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**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 5°    | 10°   | 15°   | 20°   | 25°   | 30°   | 35°   | 40°   | 45°   | 50°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 174.8 | 177.7 | 182.4 | 192.9 | 209.0 | 234.7 | 273.6 | 339.2 | 447.5 | 608.0 | 801.9 |
| 115°   | 194.8 | 198.6 | 204.3 | 213.8 | 229.9 | 255.6 | 291.7 | 349.6 | 446.5 | 584.3 | 748.7 |
| 117.5° | 214.7 | 219.5 | 224.2 | 232.8 | 250.8 | 274.6 | 310.7 | 362.9 | 447.5 | 568.1 | 713.5 |
| 120°   | 235.6 | 238.5 | 243.2 | 252.7 | 270.8 | 294.5 | 328.7 | 378.1 | 451.3 | 557.7 | 686.9 |
| 122.5° | 253.7 | 256.5 | 261.3 | 271.7 | 288.8 | 314.5 | 347.7 | 392.4 | 457.9 | 551.0 | 665.1 |
| 125°   | 270.8 | 272.7 | 278.4 | 288.8 | 306.9 | 332.5 | 365.8 | 407.6 | 464.6 | 545.3 | 647.0 |
| 127.5° | 284.1 | 286.9 | 293.6 | 304.0 | 324.0 | 349.6 | 381.9 | 419.9 | 472.2 | 542.5 | 629.9 |
| 130°   | 296.4 | 299.3 | 307.8 | 319.2 | 339.2 | 364.8 | 396.2 | 432.3 | 479.8 | 539.6 | 616.6 |
| 132.5° | 305.9 | 309.7 | 319.2 | 333.5 | 353.4 | 378.1 | 408.5 | 443.7 | 485.5 | 538.7 | 604.2 |
| 135°   | 317.3 | 321.1 | 331.6 | 345.8 | 365.8 | 391.4 | 420.9 | 453.2 | 491.2 | 537.7 | 593.8 |
| 137.5° | 327.8 | 331.6 | 342.0 | 357.2 | 377.2 | 400.9 | 429.4 | 460.8 | 495.0 | 535.8 | 584.3 |
| 140°   | 338.2 | 343.0 | 352.5 | 367.7 | 386.7 | 410.4 | 438.0 | 466.5 | 498.8 | 534.9 | 575.7 |
| 142.5° | 349.6 | 353.4 | 363.9 | 377.2 | 396.2 | 418.0 | 444.6 | 472.2 | 501.6 | 533.0 | 568.1 |
| 145°   | 362.0 | 364.8 | 373.4 | 387.6 | 403.8 | 425.6 | 450.3 | 476.0 | 502.6 | 531.1 | 561.5 |
| 147.5° | 374.3 | 376.2 | 384.8 | 397.1 | 413.3 | 432.3 | 455.1 | 478.8 | 502.6 | 528.2 | 554.8 |
| 150°   | 386.7 | 387.6 | 395.2 | 407.6 | 420.9 | 438.0 | 459.8 | 479.8 | 502.6 | 524.4 | 548.2 |
| 152.5° | 399.0 | 399.0 | 406.6 | 417.1 | 428.5 | 444.6 | 462.7 | 481.7 | 499.7 | 519.7 | 540.6 |
| 155°   | 411.4 | 411.4 | 417.1 | 426.6 | 437.0 | 450.3 | 466.5 | 481.7 | 497.8 | 514.0 | 533.0 |
| 157.5° | 420.9 | 421.8 | 426.6 | 435.1 | 444.6 | 455.1 | 468.4 | 482.6 | 495.0 | 509.2 | 524.4 |
| 160°   | 432.3 | 432.3 | 436.1 | 443.7 | 450.3 | 459.8 | 471.2 | 482.6 | 493.1 | 503.5 | 515.9 |
| 162.5° | 440.8 | 440.8 | 443.7 | 449.4 | 455.1 | 462.7 | 472.2 | 481.7 | 489.3 | 497.8 | 507.3 |
| 165°   | 449.4 | 448.4 | 450.3 | 455.1 | 458.9 | 465.5 | 473.1 | 479.8 | 485.5 | 492.1 | 499.7 |
| 167.5° | 456.0 | 455.1 | 456.0 | 459.8 | 462.7 | 467.4 | 473.1 | 478.8 | 481.7 | 486.4 | 492.1 |
| 170°   | 461.7 | 459.8 | 460.8 | 463.6 | 465.5 | 467.4 | 472.2 | 476.0 | 477.9 | 480.7 | 485.5 |
| 172.5° | 465.5 | 464.6 | 464.6 | 466.5 | 467.4 | 468.4 | 472.2 | 475.0 | 475.0 | 476.0 | 478.8 |
| 175°   | 468.4 | 467.4 | 466.5 | 468.4 | 468.4 | 469.3 | 471.2 | 473.1 | 472.2 | 472.2 | 474.1 |
| 177.5° | 470.3 | 469.3 | 468.4 | 469.3 | 469.3 | 469.3 | 470.3 | 472.2 | 470.3 | 469.3 | 470.3 |
| 180°   | 469.3 | 469.3 | 469.3 | 469.3 | 469.3 | 469.3 | 469.3 | 469.3 | 469.3 | 469.3 | 469.3 |

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**CANDELA DISTRIBUTION (continued):**

|        | 55°    | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 2.5°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 5°     | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 7.5°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 10°    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 12.5°  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 15°    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 17.5°  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 20°    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 22.5°  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 25°    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 27.5°  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 30°    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 32.5°  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 35°    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 37.5°  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 40°    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 42.5°  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 45°    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 47.5°  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 50°    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 52.5°  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 55°    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 57.5°  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 60°    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 62.5°  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 65°    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 67.5°  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 70°    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 72.5°  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 75°    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 77.5°  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 80°    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 82.5°  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5°  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 90°    | 23.8   | 24.7   | 25.7   | 27.6   | 26.6   | 27.6   | 28.5   | 27.6   |
| 92.5°  | 94.1   | 73.2   | 63.7   | 57.0   | 55.1   | 51.3   | 52.3   | 50.4   |
| 95°    | 342.0  | 231.8  | 181.5  | 147.3  | 129.2  | 120.7  | 114.0  | 110.2  |
| 97.5°  | 785.7  | 592.8  | 467.4  | 359.1  | 295.5  | 259.4  | 236.6  | 226.1  |
| 100°   | 1120.1 | 1043.2 | 932.0  | 797.1  | 701.2  | 631.8  | 594.7  | 595.7  |
| 102.5° | 1231.3 | 1247.4 | 1194.2 | 1121.1 | 1051.7 | 1000.4 | 971.0  | 943.4  |
| 105°   | 1235.1 | 1330.1 | 1348.2 | 1323.5 | 1279.8 | 1243.6 | 1213.2 | 1208.5 |
| 107.5° | 1178.1 | 1327.3 | 1401.4 | 1427.0 | 1421.3 | 1404.2 | 1391.9 | 1381.4 |
| 110°   | 1088.8 | 1263.6 | 1383.3 | 1449.8 | 1476.4 | 1484.0 | 1482.1 | 1480.2 |



TEST NUMBER: P1007497

CATALOG NUMBER: S123IP-B1025UB50-4F0-XX-W2A-4

**CANDELA DISTRIBUTION (continued):**

|        | 55°    | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 1000.4 | 1180.0 | 1317.8 | 1408.0 | 1462.2 | 1489.7 | 1499.2 | 1500.2 |
| 115°   | 924.4  | 1089.7 | 1229.4 | 1333.0 | 1404.2 | 1446.0 | 1465.0 | 1469.8 |
| 117.5° | 865.5  | 1011.8 | 1140.1 | 1247.4 | 1321.6 | 1368.1 | 1396.6 | 1403.3 |
| 120°   | 820.9  | 949.1  | 1063.1 | 1159.1 | 1234.1 | 1287.4 | 1310.2 | 1315.9 |
| 122.5° | 785.7  | 898.8  | 1002.3 | 1089.7 | 1154.3 | 1200.9 | 1226.5 | 1234.1 |
| 125°   | 755.3  | 858.9  | 950.1  | 1026.1 | 1086.9 | 1128.7 | 1152.4 | 1159.1 |
| 127.5° | 727.8  | 821.8  | 905.4  | 975.7  | 1030.8 | 1066.9 | 1088.8 | 1094.5 |
| 130°   | 702.1  | 787.6  | 864.6  | 929.2  | 979.5  | 1013.7 | 1033.7 | 1041.3 |
| 132.5° | 678.4  | 755.3  | 825.6  | 886.4  | 933.0  | 967.2  | 984.3  | 989.0  |
| 135°   | 657.5  | 724.9  | 786.7  | 840.8  | 887.4  | 915.9  | 933.0  | 939.6  |
| 137.5° | 637.5  | 694.5  | 749.6  | 798.1  | 838.0  | 867.4  | 881.7  | 887.4  |
| 140°   | 620.4  | 668.9  | 714.5  | 755.3  | 791.4  | 818.0  | 833.2  | 832.3  |
| 142.5° | 604.2  | 644.2  | 682.2  | 716.4  | 745.8  | 768.6  | 781.9  | 781.0  |
| 145°   | 591.9  | 623.2  | 653.7  | 681.2  | 705.0  | 724.9  | 732.5  | 734.4  |
| 147.5° | 581.4  | 607.1  | 632.8  | 652.7  | 671.7  | 686.0  | 693.6  | 694.5  |
| 150°   | 570.0  | 591.9  | 611.8  | 629.9  | 644.2  | 654.6  | 660.3  | 660.3  |
| 152.5° | 559.6  | 577.6  | 594.7  | 609.0  | 619.4  | 628.9  | 631.8  | 631.8  |
| 155°   | 549.1  | 564.3  | 578.6  | 590.0  | 598.5  | 606.1  | 608.0  | 609.0  |
| 157.5° | 537.7  | 551.0  | 562.4  | 571.9  | 579.5  | 585.2  | 587.1  | 587.1  |
| 160°   | 528.2  | 538.7  | 548.2  | 554.8  | 561.5  | 567.2  | 567.2  | 566.2  |
| 162.5° | 516.8  | 525.4  | 533.9  | 539.6  | 543.4  | 548.2  | 548.2  | 547.2  |
| 165°   | 507.3  | 513.0  | 519.7  | 524.4  | 528.2  | 532.0  | 531.1  | 531.1  |
| 167.5° | 498.8  | 503.5  | 507.3  | 511.1  | 513.0  | 515.9  | 514.9  | 514.9  |
| 170°   | 490.2  | 493.1  | 496.9  | 498.8  | 499.7  | 501.6  | 500.7  | 500.7  |
| 172.5° | 482.6  | 484.5  | 487.4  | 488.3  | 488.3  | 490.2  | 488.3  | 487.4  |
| 175°   | 476.0  | 476.9  | 478.8  | 478.8  | 478.8  | 479.8  | 478.8  | 477.9  |
| 177.5° | 471.2  | 472.2  | 473.1  | 473.1  | 472.2  | 473.1  | 471.2  | 471.2  |
| 180°   | 469.3  | 469.3  | 469.3  | 469.3  | 469.3  | 469.3  | 469.3  | 469.3  |

(END OF REPORT)