

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: P1007748

Luminaire Tested: S124IP-B810UB2750-4F0-XX-W2A-4\_3000K

Issue Date: 5/5/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1007748  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-18)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/5/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S124IP-B810UB2750-4F0-XX-W2A-4\_3000K  
Description: Define 4 Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}  
Light Source: -  
Ballast/Driver: -

**Summary**

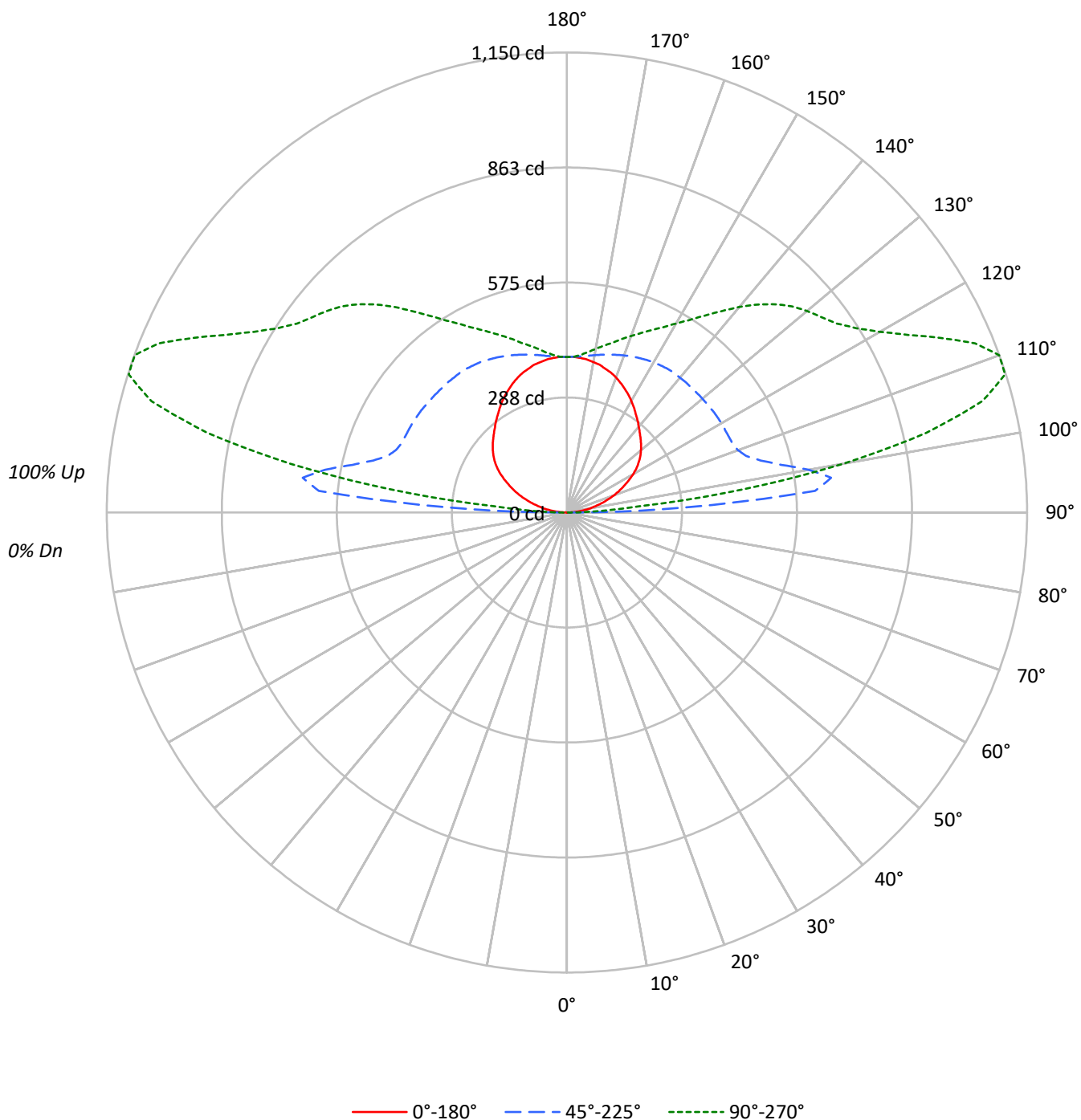
Lumens per Lamp: N/A  
Luminaire Lumens: 2833.0 lumens  
Efficiency: N/A  
Efficacy: 134.3 lumens/watt  
Spacing Criteria (0/90/45): - / - / -  
Luminous Opening: Rectangular (W 0.33' x L: 4' x H: 0')  
CIE Type: Indirect

Input Watts (W): 21.1  
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: P1007748

CATALOG NUMBER: S124IP-B810UB2750-4F0-XX-W2A-4\_3000K

### Luminous Intensity Polar Plot



TEST NUMBER: P1007748

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

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

**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

TEST NUMBER: P1007748

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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°   | 1.5    | 0.1       |
| 90°-100°  | 281.8  | 9.9       |
| 100°-110° | 588.2  | 20.8      |
| 110°-120° | 522.9  | 18.5      |
| 120°-130° | 440.2  | 15.5      |
| 130°-140° | 367.2  | 13.0      |
| 140°-150° | 280.4  | 9.9       |
| 150°-160° | 197.1  | 7.0       |
| 160°-170° | 115.9  | 4.1       |
| 170°-180° | 37.7   | 1.3       |
| 0°-30°    | 0.0    | 0.0       |
| 0°-40°    | 0.0    | 0.0       |
| 0°-60°    | 0.0    | 0.0       |
| 0°-90°    | 1.5    | 0.1       |
| 90°-120°  | 1392.9 | 49.2      |
| 90°-150°  | 2480.7 | 87.6      |
| 90°-180°  | 2831.0 | 99.9      |
| 0°-180°   | 2833.0 | 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°  | 1   | 6     | 14  | 15    | 16   | 2    |
| 95°  | 25  | 79    | 622 | 308   | 186  | 28   |
| 105° | 89  | 129   | 501 | 1079  | 1075 | 95   |
| 115° | 157 | 197   | 447 | 858   | 1032 | 156  |
| 125° | 219 | 260   | 444 | 731   | 823  | 195  |
| 135° | 260 | 310   | 441 | 648   | 736  | 201  |
| 145° | 300 | 344   | 438 | 547   | 601  | 188  |
| 155° | 341 | 369   | 426 | 483   | 503  | 157  |
| 165° | 372 | 383   | 409 | 433   | 439  | 105  |
| 175° | 388 | 389   | 392 | 397   | 396  | 37   |
| 180° | 389 | 389   | 389 | 389   | 389  |      |

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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°    | 0.8   | 2.3   | 4.6   | 5.3   | 6.1   | 6.1   | 10.7  | 10.7  | 12.2  | 13.7  | 13.0  |
| 92.5°  | 10.7  | 15.3  | 23.7  | 35.1  | 48.9  | 68.7  | 116.1 | 190.2 | 262.0 | 299.4 | 249.0 |
| 95°    | 25.2  | 27.5  | 35.1  | 45.1  | 63.4  | 95.5  | 161.9 | 287.2 | 469.7 | 622.5 | 640.0 |
| 97.5°  | 42.0  | 42.0  | 48.9  | 58.0  | 74.1  | 101.6 | 154.3 | 262.0 | 449.9 | 666.0 | 802.7 |
| 100°   | 58.0  | 58.0  | 63.4  | 72.6  | 87.1  | 111.5 | 156.6 | 242.9 | 398.7 | 614.1 | 809.6 |
| 102.5° | 73.3  | 74.9  | 79.4  | 87.8  | 101.6 | 124.5 | 164.2 | 237.5 | 364.3 | 549.2 | 752.3 |
| 105°   | 89.4  | 91.7  | 95.5  | 104.6 | 118.4 | 140.5 | 177.2 | 240.6 | 347.5 | 501.0 | 680.5 |
| 107.5° | 106.9 | 108.5 | 112.3 | 122.2 | 135.2 | 157.3 | 190.9 | 249.8 | 342.9 | 469.7 | 621.7 |
| 110°   | 124.5 | 126.0 | 129.8 | 139.0 | 152.8 | 173.4 | 207.0 | 260.4 | 344.5 | 455.2 | 579.7 |

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**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 5°    | 10°   | 15°   | 20°   | 25°   | 30°   | 35°   | 40°   | 45°   | 50°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 141.3 | 142.8 | 147.4 | 155.8 | 169.6 | 190.2 | 222.3 | 271.9 | 349.0 | 448.3 | 556.0 |
| 115°   | 157.3 | 159.6 | 165.0 | 172.6 | 187.1 | 207.7 | 238.3 | 284.1 | 355.2 | 446.8 | 543.0 |
| 117.5° | 174.1 | 176.4 | 181.0 | 189.4 | 203.2 | 224.6 | 253.6 | 296.3 | 361.3 | 446.0 | 536.2 |
| 120°   | 190.9 | 192.5 | 197.8 | 206.2 | 219.2 | 240.6 | 269.6 | 309.3 | 368.1 | 446.0 | 530.8 |
| 122.5° | 206.2 | 207.7 | 213.1 | 220.7 | 235.2 | 255.9 | 284.9 | 321.6 | 375.0 | 445.3 | 524.7 |
| 125°   | 219.2 | 222.3 | 226.8 | 235.2 | 249.8 | 271.1 | 298.6 | 333.8 | 381.9 | 444.5 | 517.8 |
| 127.5° | 231.4 | 233.7 | 239.1 | 248.2 | 263.5 | 284.9 | 311.6 | 344.5 | 387.2 | 443.0 | 508.7 |
| 130°   | 241.4 | 244.4 | 250.5 | 262.0 | 276.5 | 298.6 | 324.6 | 354.4 | 393.3 | 442.2 | 500.3 |
| 132.5° | 251.3 | 253.6 | 262.0 | 272.7 | 288.7 | 309.3 | 335.3 | 364.3 | 398.7 | 441.5 | 492.6 |
| 135°   | 260.4 | 263.5 | 271.1 | 284.1 | 300.2 | 320.0 | 345.2 | 372.7 | 404.0 | 440.7 | 485.0 |
| 137.5° | 269.6 | 272.7 | 281.1 | 293.3 | 310.1 | 329.2 | 352.9 | 378.8 | 407.1 | 440.7 | 478.1 |
| 140°   | 279.5 | 281.8 | 290.2 | 303.2 | 319.3 | 337.6 | 360.5 | 384.9 | 410.9 | 439.9 | 472.8 |
| 142.5° | 290.2 | 292.5 | 300.2 | 312.4 | 327.7 | 345.2 | 367.4 | 389.5 | 414.0 | 439.9 | 468.2 |
| 145°   | 300.2 | 302.5 | 310.1 | 320.8 | 335.3 | 352.1 | 372.0 | 392.6 | 414.7 | 438.4 | 462.9 |
| 147.5° | 311.6 | 312.4 | 319.3 | 330.7 | 342.9 | 358.2 | 377.3 | 395.6 | 415.5 | 436.1 | 458.3 |
| 150°   | 322.3 | 323.1 | 329.2 | 338.4 | 349.8 | 364.3 | 381.1 | 397.9 | 415.5 | 433.8 | 452.9 |
| 152.5° | 332.2 | 332.2 | 338.4 | 346.8 | 356.7 | 369.7 | 384.2 | 399.5 | 414.0 | 430.0 | 446.8 |
| 155°   | 341.4 | 342.2 | 346.8 | 354.4 | 362.8 | 374.3 | 387.2 | 400.2 | 412.4 | 426.2 | 440.7 |
| 157.5° | 350.6 | 350.6 | 355.2 | 361.3 | 368.9 | 378.1 | 389.5 | 400.2 | 410.9 | 422.4 | 434.6 |
| 160°   | 359.0 | 359.0 | 362.0 | 367.4 | 373.5 | 381.9 | 391.1 | 400.2 | 408.6 | 417.8 | 427.7 |
| 162.5° | 366.6 | 365.9 | 368.1 | 372.7 | 378.1 | 384.2 | 392.6 | 400.2 | 406.3 | 413.2 | 421.6 |
| 165°   | 372.0 | 372.0 | 373.5 | 377.3 | 381.1 | 385.7 | 392.6 | 398.7 | 403.3 | 408.6 | 414.7 |
| 167.5° | 378.1 | 377.3 | 378.1 | 381.1 | 383.4 | 387.2 | 392.6 | 397.2 | 400.2 | 404.0 | 408.6 |
| 170°   | 381.9 | 381.1 | 381.9 | 384.2 | 385.7 | 388.0 | 391.8 | 395.6 | 397.2 | 399.5 | 402.5 |
| 172.5° | 385.7 | 384.9 | 384.9 | 386.5 | 387.2 | 388.8 | 391.1 | 394.1 | 394.1 | 394.9 | 397.2 |
| 175°   | 388.0 | 387.2 | 387.2 | 388.0 | 388.8 | 388.8 | 390.3 | 392.6 | 391.8 | 391.8 | 393.3 |
| 177.5° | 389.5 | 388.8 | 388.0 | 388.8 | 388.8 | 388.8 | 389.5 | 391.1 | 389.5 | 389.5 | 390.3 |
| 180°   | 388.8 | 388.8 | 388.8 | 388.8 | 388.8 | 388.8 | 388.8 | 388.8 | 388.8 | 388.8 | 388.8 |

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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°    | 13.7  | 14.5   | 15.3   | 15.3   | 16.0   | 16.8   | 16.0   | 16.0   |
| 92.5°  | 184.1 | 137.5  | 108.5  | 89.4   | 77.9   | 72.6   | 69.5   | 69.5   |
| 95°    | 566.0 | 447.6  | 345.2  | 271.1  | 233.7  | 210.0  | 196.3  | 186.4  |
| 97.5°  | 815.0 | 756.1  | 672.1  | 586.6  | 534.6  | 488.8  | 465.9  | 447.6  |
| 100°   | 921.1 | 936.4  | 899.0  | 842.5  | 776.0  | 729.4  | 706.5  | 700.4  |
| 102.5° | 915.8 | 1006.7 | 1029.6 | 1014.3 | 979.9  | 949.4  | 924.9  | 920.4  |
| 105°   | 855.4 | 987.6  | 1063.2 | 1094.5 | 1096.0 | 1089.9 | 1079.2 | 1074.6 |
| 107.5° | 781.3 | 924.2  | 1029.6 | 1093.7 | 1127.3 | 1141.1 | 1147.2 | 1148.0 |
| 110°   | 715.7 | 847.8  | 958.5  | 1042.6 | 1096.8 | 1128.9 | 1142.6 | 1149.5 |

TEST NUMBER: P1007748

CATALOG NUMBER: S124IP-B810UB2750-4F0-XX-W2A-4\_3000K

**CANDELA DISTRIBUTION (continued):**

|        | 55°   | 60°   | 65°   | 70°   | 75°    | 80°    | 85°    | 90°    |
|--------|-------|-------|-------|-------|--------|--------|--------|--------|
| 112.5° | 667.5 | 780.6 | 883.7 | 967.7 | 1031.1 | 1071.6 | 1092.2 | 1104.4 |
| 115°   | 638.5 | 732.5 | 821.8 | 895.2 | 955.5  | 1001.3 | 1025.8 | 1031.9 |
| 117.5° | 621.7 | 701.2 | 773.7 | 837.9 | 891.3  | 931.0  | 957.0  | 960.8  |
| 120°   | 611.0 | 682.1 | 743.2 | 797.4 | 840.9  | 874.5  | 894.4  | 902.8  |
| 122.5° | 601.9 | 669.8 | 724.1 | 769.9 | 805.0  | 832.5  | 848.6  | 857.0  |
| 125°   | 591.2 | 656.9 | 709.6 | 751.6 | 782.1  | 804.3  | 818.8  | 823.4  |
| 127.5° | 578.9 | 642.3 | 695.0 | 734.8 | 765.3  | 785.2  | 797.4  | 802.0  |
| 130°   | 563.7 | 624.0 | 675.9 | 716.4 | 747.7  | 766.8  | 779.1  | 783.6  |
| 132.5° | 547.6 | 603.4 | 653.8 | 694.3 | 724.8  | 747.0  | 758.4  | 763.0  |
| 135°   | 533.1 | 582.8 | 629.4 | 667.5 | 698.1  | 719.5  | 731.7  | 736.3  |
| 137.5° | 519.4 | 562.9 | 603.4 | 638.5 | 667.5  | 689.7  | 699.6  | 705.0  |
| 140°   | 507.9 | 543.8 | 578.2 | 610.3 | 637.0  | 653.8  | 664.5  | 670.6  |
| 142.5° | 497.2 | 527.8 | 556.0 | 582.8 | 605.7  | 621.0  | 630.1  | 633.9  |
| 145°   | 487.3 | 513.3 | 536.2 | 557.6 | 576.7  | 589.6  | 597.3  | 601.1  |
| 147.5° | 478.9 | 500.3 | 519.4 | 536.9 | 551.4  | 562.9  | 569.0  | 570.5  |
| 150°   | 471.3 | 488.8 | 504.1 | 517.8 | 530.1  | 540.0  | 544.6  | 545.3  |
| 152.5° | 462.9 | 477.4 | 491.1 | 501.8 | 511.7  | 519.4  | 521.7  | 522.4  |
| 155°   | 454.4 | 466.7 | 478.1 | 487.3 | 494.9  | 501.0  | 503.3  | 503.3  |
| 157.5° | 445.3 | 456.0 | 465.9 | 473.5 | 479.7  | 484.2  | 485.8  | 485.8  |
| 160°   | 436.9 | 445.3 | 453.7 | 459.8 | 464.4  | 469.0  | 469.7  | 469.7  |
| 162.5° | 428.5 | 435.4 | 441.5 | 446.8 | 449.9  | 454.4  | 455.2  | 454.4  |
| 165°   | 420.8 | 425.4 | 430.8 | 434.6 | 437.6  | 440.7  | 439.9  | 439.2  |
| 167.5° | 413.2 | 417.0 | 421.6 | 423.9 | 425.4  | 427.7  | 427.7  | 427.0  |
| 170°   | 406.3 | 408.6 | 411.7 | 414.0 | 415.5  | 416.3  | 415.5  | 415.5  |
| 172.5° | 400.2 | 401.7 | 403.3 | 404.8 | 405.6  | 406.3  | 405.6  | 404.0  |
| 175°   | 394.9 | 395.6 | 397.2 | 397.2 | 397.2  | 398.7  | 397.2  | 395.6  |
| 177.5° | 391.1 | 391.8 | 391.8 | 392.6 | 391.8  | 392.6  | 391.1  | 389.5  |
| 180°   | 388.8 | 388.8 | 388.8 | 388.8 | 388.8  | 388.8  | 388.8  | 388.8  |

(END OF REPORT)