

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: P334449

Luminaire Tested: **S122IP-S1080U835-4F0-1E-UDD-4**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P334449  
TEST 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: S122IP-S1080U835-4F0-1E-UDD-4  
Description: DEFINE 2 INDIRECT LED LUMINAIRE, BATWING OPTIC  
PENDANT MOUNT, 1080 LUMENS PER FOOT  
Light Source: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

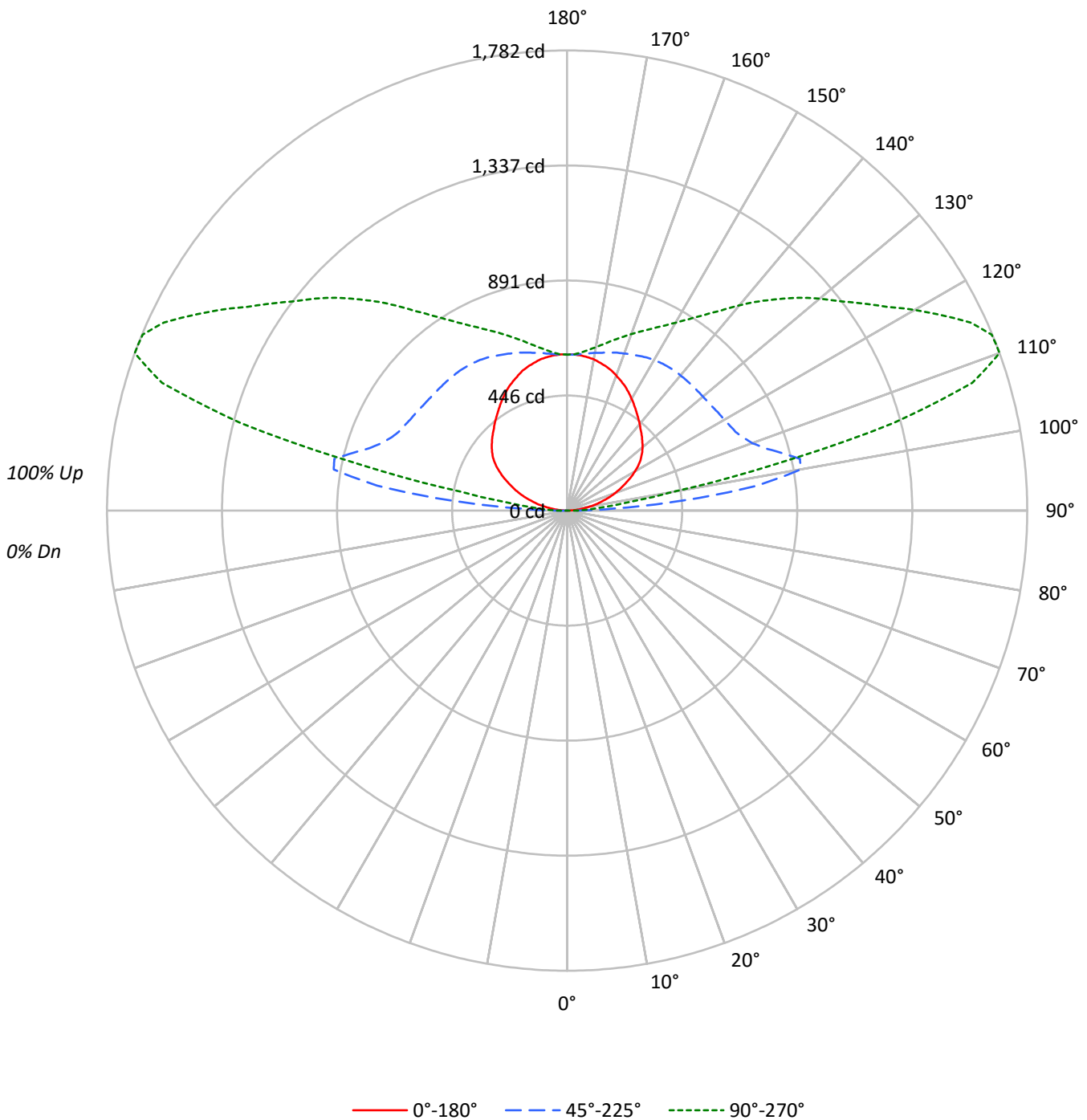
Lumens per Lamp: N/A  
Luminaire Lumens: 4210.6 lumens  
Efficiency: N/A  
Efficacy: 100.5 lumens/watt  
Spacing Criteria (0/90/45): - / - / -  
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')  
CIE Type: Indirect

Input Watts (W): 41.9  
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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CATALOG NUMBER: S122IP-S1080U835-4F0-1E-UDD-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 | 0 |
| RW  | 70 | 50 | 30 | 10 | 70 | 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 | 0 |
| 1   | 87 | 83 | 79 | 76 | 74 | 71 | 68 | 65 | 48 | 47 | 45 | 28 | 27 | 26 | 9  | 9  | 8  | 0 |
| 2   | 79 | 72 | 66 | 62 | 67 | 62 | 57 | 53 | 42 | 40 | 37 | 24 | 23 | 22 | 8  | 7  | 7  | 0 |
| 3   | 72 | 63 | 56 | 51 | 61 | 54 | 49 | 44 | 37 | 34 | 31 | 21 | 20 | 18 | 7  | 6  | 6  | 0 |
| 4   | 65 | 56 | 48 | 43 | 56 | 48 | 42 | 37 | 33 | 29 | 26 | 19 | 17 | 16 | 6  | 6  | 5  | 0 |
| 5   | 60 | 49 | 42 | 36 | 51 | 42 | 36 | 32 | 29 | 25 | 22 | 17 | 15 | 13 | 5  | 5  | 4  | 0 |
| 6   | 55 | 44 | 36 | 31 | 47 | 38 | 32 | 27 | 26 | 22 | 19 | 15 | 13 | 11 | 5  | 4  | 4  | 0 |
| 7   | 50 | 39 | 32 | 27 | 43 | 34 | 28 | 23 | 23 | 19 | 17 | 14 | 11 | 10 | 4  | 4  | 3  | 0 |
| 8   | 47 | 35 | 28 | 23 | 40 | 30 | 24 | 20 | 21 | 17 | 14 | 12 | 10 | 9  | 4  | 3  | 3  | 0 |
| 9   | 43 | 32 | 25 | 20 | 37 | 27 | 22 | 18 | 19 | 15 | 13 | 11 | 9  | 8  | 4  | 3  | 3  | 0 |
| 10  | 40 | 29 | 22 | 18 | 34 | 25 | 19 | 16 | 17 | 14 | 11 | 10 | 8  | 7  | 3  | 3  | 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   |



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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°   | 3.9    | 0.1       |
| 90°-100°  | 235.5  | 5.6       |
| 100°-110° | 829.3  | 19.7      |
| 110°-120° | 870.9  | 20.7      |
| 120°-130° | 716.5  | 17.0      |
| 130°-140° | 575.6  | 13.7      |
| 140°-150° | 434.8  | 10.3      |
| 150°-160° | 305.7  | 7.3       |
| 160°-170° | 179.9  | 4.3       |
| 170°-180° | 58.5   | 1.4       |
| 0°-30°    | 0.0    | 0.0       |
| 0°-40°    | 0.0    | 0.0       |
| 0°-60°    | 0.0    | 0.0       |
| 0°-90°    | 3.9    | 0.1       |
| 90°-120°  | 1935.7 | 46.0      |
| 90°-150°  | 3662.6 | 87.0      |
| 90°-180°  | 4207.0 | 99.9      |
| 0°-180°   | 4210.6 | 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   | 16    | 40  | 38    | 38   | 3    |
| 95°  | 41  | 100   | 455 | 172   | 132  | 42   |
| 105° | 142 | 214   | 861 | 1539  | 1309 | 151  |
| 115° | 250 | 315   | 720 | 1486  | 1723 | 248  |
| 125° | 348 | 412   | 692 | 1204  | 1398 | 310  |
| 135° | 409 | 488   | 684 | 1012  | 1158 | 316  |
| 145° | 467 | 537   | 681 | 845   | 925  | 293  |
| 155° | 531 | 573   | 661 | 748   | 777  | 244  |
| 165° | 578 | 596   | 633 | 671   | 682  | 163  |
| 175° | 603 | 604   | 609 | 616   | 614  | 57   |
| 180° | 604 | 604   | 604 | 604   | 604  |      |



TEST NUMBER: P334449

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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°    | 1.2   | 4.6   | 9.3   | 11.6  | 13.9  | 17.4  | 23.2  | 31.4  | 38.3  | 39.5  | 38.3   |
| 92.5°  | 17.4  | 24.4  | 33.7  | 39.5  | 48.8  | 61.6  | 92.9  | 137.1 | 176.6 | 178.9 | 149.9  |
| 95°    | 40.7  | 45.3  | 56.9  | 67.4  | 86.0  | 113.8 | 167.3 | 268.3 | 403.1 | 455.4 | 398.5  |
| 97.5°  | 60.4  | 67.4  | 80.2  | 95.3  | 116.2 | 147.5 | 216.1 | 356.6 | 573.9 | 742.3 | 748.1  |
| 100°   | 89.4  | 92.9  | 103.4 | 122.0 | 145.2 | 177.7 | 239.3 | 381.0 | 631.9 | 917.7 | 1085.0 |
| 102.5° | 116.2 | 118.5 | 128.9 | 147.5 | 171.9 | 204.5 | 260.2 | 382.2 | 609.9 | 923.5 | 1210.5 |
| 105°   | 141.7 | 146.4 | 154.5 | 171.9 | 197.5 | 230.0 | 284.6 | 388.0 | 579.7 | 860.8 | 1169.8 |
| 107.5° | 169.6 | 173.1 | 181.2 | 197.5 | 223.0 | 255.6 | 309.0 | 400.8 | 563.4 | 802.7 | 1083.8 |
| 110°   | 197.5 | 202.1 | 209.1 | 224.2 | 248.6 | 282.3 | 333.4 | 417.0 | 558.8 | 763.2 | 1003.7 |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 5°    | 10°   | 15°   | 20°   | 25°   | 30°   | 35°   | 40°   | 45°   | 50°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 223.0 | 227.7 | 235.8 | 249.8 | 273.0 | 307.8 | 356.6 | 434.5 | 559.9 | 737.7 | 947.9 |
| 115°   | 249.8 | 255.6 | 262.5 | 276.5 | 299.7 | 331.1 | 381.0 | 451.9 | 564.6 | 720.2 | 903.8 |
| 117.5° | 277.6 | 282.3 | 289.3 | 302.0 | 324.1 | 356.6 | 403.1 | 470.5 | 571.5 | 710.9 | 873.6 |
| 120°   | 303.2 | 307.8 | 314.8 | 325.3 | 348.5 | 381.0 | 426.3 | 489.1 | 578.5 | 702.8 | 850.3 |
| 122.5° | 327.6 | 331.1 | 338.0 | 349.7 | 372.9 | 406.6 | 448.4 | 505.3 | 586.6 | 698.2 | 830.6 |
| 125°   | 348.5 | 352.0 | 359.0 | 372.9 | 396.1 | 428.7 | 470.5 | 522.8 | 594.8 | 692.4 | 812.0 |
| 127.5° | 365.9 | 370.6 | 379.9 | 395.0 | 417.0 | 450.7 | 491.4 | 539.0 | 602.9 | 688.9 | 794.6 |
| 130°   | 381.0 | 385.7 | 397.3 | 413.6 | 436.8 | 469.3 | 510.0 | 554.1 | 612.2 | 686.5 | 777.2 |
| 132.5° | 395.0 | 400.8 | 413.6 | 431.0 | 455.4 | 487.9 | 526.2 | 569.2 | 621.5 | 685.4 | 763.2 |
| 135°   | 408.9 | 413.6 | 427.5 | 444.9 | 471.6 | 504.2 | 541.3 | 582.0 | 628.5 | 684.2 | 750.4 |
| 137.5° | 421.7 | 427.5 | 441.4 | 460.0 | 486.7 | 516.9 | 554.1 | 592.5 | 635.4 | 684.2 | 741.1 |
| 140°   | 436.8 | 441.4 | 455.4 | 474.0 | 499.5 | 529.7 | 564.6 | 600.6 | 640.1 | 683.1 | 733.0 |
| 142.5° | 451.9 | 455.4 | 468.2 | 486.7 | 511.1 | 539.0 | 572.7 | 607.6 | 643.6 | 683.1 | 724.9 |
| 145°   | 467.0 | 471.6 | 483.3 | 500.7 | 523.9 | 549.5 | 580.8 | 613.4 | 645.9 | 680.7 | 717.9 |
| 147.5° | 483.3 | 486.7 | 498.4 | 514.6 | 534.4 | 557.6 | 587.8 | 616.8 | 647.1 | 677.3 | 710.9 |
| 150°   | 499.5 | 503.0 | 512.3 | 527.4 | 544.8 | 565.7 | 592.5 | 619.2 | 645.9 | 673.8 | 701.6 |
| 152.5° | 515.8 | 516.9 | 526.2 | 539.0 | 555.3 | 573.9 | 597.1 | 620.3 | 643.6 | 668.0 | 693.5 |
| 155°   | 530.9 | 532.0 | 539.0 | 551.8 | 564.6 | 582.0 | 601.7 | 621.5 | 641.2 | 661.0 | 683.1 |
| 157.5° | 543.7 | 544.8 | 550.6 | 562.2 | 572.7 | 587.8 | 605.2 | 621.5 | 636.6 | 654.0 | 673.8 |
| 160°   | 556.4 | 557.6 | 562.2 | 571.5 | 580.8 | 593.6 | 607.6 | 621.5 | 633.1 | 647.1 | 663.3 |
| 162.5° | 569.2 | 568.1 | 572.7 | 579.7 | 587.8 | 597.1 | 608.7 | 620.3 | 629.6 | 641.2 | 654.0 |
| 165°   | 578.5 | 577.4 | 579.7 | 586.6 | 592.5 | 599.4 | 609.9 | 618.0 | 625.0 | 633.1 | 643.6 |
| 167.5° | 586.6 | 585.5 | 587.8 | 592.5 | 597.1 | 601.7 | 609.9 | 616.8 | 620.3 | 626.1 | 633.1 |
| 170°   | 594.8 | 592.5 | 593.6 | 597.1 | 599.4 | 602.9 | 608.7 | 614.5 | 616.8 | 620.3 | 625.0 |
| 172.5° | 599.4 | 598.3 | 597.1 | 600.6 | 601.7 | 604.1 | 607.6 | 611.0 | 612.2 | 613.4 | 616.8 |
| 175°   | 602.9 | 601.7 | 600.6 | 602.9 | 602.9 | 604.1 | 606.4 | 608.7 | 607.6 | 608.7 | 609.9 |
| 177.5° | 605.2 | 602.9 | 601.7 | 604.1 | 604.1 | 604.1 | 605.2 | 607.6 | 605.2 | 604.1 | 605.2 |
| 180°   | 604.1 | 604.1 | 604.1 | 604.1 | 604.1 | 604.1 | 604.1 | 604.1 | 604.1 | 604.1 | 604.1 |



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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°    | 37.2   | 34.9   | 37.2   | 38.3   | 38.3   | 38.3   | 38.3   | 38.3   |
| 92.5°  | 117.3  | 99.9   | 87.1   | 77.8   | 76.7   | 72.0   | 73.2   | 70.9   |
| 95°    | 304.4  | 233.5  | 184.7  | 159.1  | 144.0  | 134.8  | 131.3  | 132.4  |
| 97.5°  | 622.7  | 497.2  | 379.9  | 310.2  | 264.9  | 241.6  | 228.8  | 221.9  |
| 100°   | 1060.6 | 916.6  | 757.4  | 616.8  | 520.4  | 470.5  | 436.8  | 415.9  |
| 102.5° | 1347.5 | 1342.9 | 1237.2 | 1086.2 | 979.3  | 885.2  | 841.1  | 810.8  |
| 105°   | 1411.4 | 1542.7 | 1557.8 | 1519.5 | 1447.4 | 1375.4 | 1325.5 | 1309.2 |
| 107.5° | 1342.9 | 1538.1 | 1651.9 | 1698.4 | 1697.2 | 1686.7 | 1671.6 | 1644.9 |
| 110°   | 1248.8 | 1456.7 | 1605.4 | 1700.7 | 1750.6 | 1772.7 | 1783.2 | 1782.0 |





TEST NUMBER: P334449

CATALOG NUMBER: S122IP-S1080U835-4F0-1E-UDD-4

**CANDELA DISTRIBUTION (continued):**

|        | 55°    | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 1162.8 | 1360.3 | 1521.8 | 1634.5 | 1708.8 | 1749.5 | 1771.5 | 1779.7 |
| 115°   | 1095.5 | 1274.4 | 1426.5 | 1546.2 | 1628.7 | 1682.1 | 1712.3 | 1722.8 |
| 117.5° | 1039.7 | 1200.0 | 1341.7 | 1455.6 | 1540.4 | 1597.3 | 1628.7 | 1636.8 |
| 120°   | 1000.2 | 1144.2 | 1267.4 | 1373.1 | 1454.4 | 1509.0 | 1542.7 | 1554.3 |
| 122.5° | 968.8  | 1097.8 | 1212.8 | 1305.7 | 1376.6 | 1430.0 | 1459.1 | 1468.4 |
| 125°   | 938.6  | 1058.3 | 1160.5 | 1247.6 | 1315.0 | 1359.2 | 1388.2 | 1397.5 |
| 127.5° | 908.4  | 1018.8 | 1116.4 | 1197.7 | 1256.9 | 1298.7 | 1324.3 | 1331.3 |
| 130°   | 879.4  | 979.3  | 1071.1 | 1147.7 | 1204.7 | 1244.2 | 1267.4 | 1276.7 |
| 132.5° | 851.5  | 942.1  | 1024.6 | 1095.5 | 1151.2 | 1190.7 | 1211.6 | 1219.8 |
| 135°   | 825.9  | 902.6  | 979.3  | 1044.3 | 1094.3 | 1132.6 | 1153.5 | 1158.2 |
| 137.5° | 805.0  | 871.3  | 934.0  | 992.1  | 1039.7 | 1073.4 | 1092.0 | 1098.9 |
| 140°   | 785.3  | 841.1  | 894.5  | 945.6  | 982.8  | 1013.0 | 1030.4 | 1037.4 |
| 142.5° | 769.0  | 814.3  | 858.5  | 899.1  | 934.0  | 960.7  | 975.8  | 975.8  |
| 145°   | 753.9  | 792.3  | 828.3  | 862.0  | 889.8  | 909.6  | 921.2  | 924.7  |
| 147.5° | 742.3  | 773.7  | 802.7  | 828.3  | 852.7  | 868.9  | 877.1  | 879.4  |
| 150°   | 729.5  | 755.1  | 779.5  | 800.4  | 817.8  | 831.8  | 838.7  | 839.9  |
| 152.5° | 716.8  | 740.0  | 759.7  | 777.2  | 789.9  | 801.6  | 806.2  | 806.2  |
| 155°   | 705.1  | 723.7  | 741.1  | 753.9  | 766.7  | 774.8  | 779.5  | 777.2  |
| 157.5° | 691.2  | 707.5  | 722.6  | 733.0  | 742.3  | 749.3  | 751.6  | 751.6  |
| 160°   | 678.4  | 691.2  | 704.0  | 712.1  | 720.2  | 726.0  | 727.2  | 727.2  |
| 162.5° | 665.6  | 676.1  | 686.5  | 692.4  | 700.5  | 704.0  | 705.1  | 704.0  |
| 165°   | 652.9  | 661.0  | 669.1  | 673.8  | 678.4  | 683.1  | 683.1  | 681.9  |
| 167.5° | 640.1  | 647.1  | 652.9  | 657.5  | 659.8  | 662.2  | 662.2  | 661.0  |
| 170°   | 630.8  | 634.3  | 638.9  | 641.2  | 642.4  | 645.9  | 644.7  | 642.4  |
| 172.5° | 620.3  | 622.7  | 626.1  | 627.3  | 628.5  | 629.6  | 628.5  | 627.3  |
| 175°   | 613.4  | 614.5  | 615.7  | 616.8  | 616.8  | 618.0  | 616.8  | 614.5  |
| 177.5° | 607.6  | 607.6  | 608.7  | 608.7  | 608.7  | 608.7  | 607.6  | 605.2  |
| 180°   | 604.1  | 604.1  | 604.1  | 604.1  | 604.1  | 604.1  | 604.1  | 604.1  |

(END OF REPORT)