

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: P332498-840

Luminaire Tested: **S124DIP-S350D365U840-4F0-1E-UDD-F4**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P332498-840  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-18,  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: S124DIP-S350D365U840-4F0-1E-UDD-F4  
Description: DEFINE 4 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 350 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER  
UPLIGHT 365 LUMENS PER FOOT, BATWING OPTIC  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2853.1 lumens  
Efficiency: N/A  
Efficacy: 140.5 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.17 / 1.3  
Luminous Opening: Rectangular (W 0.33' x L: 4' x H: 0')  
CIE Type: General Diffuse

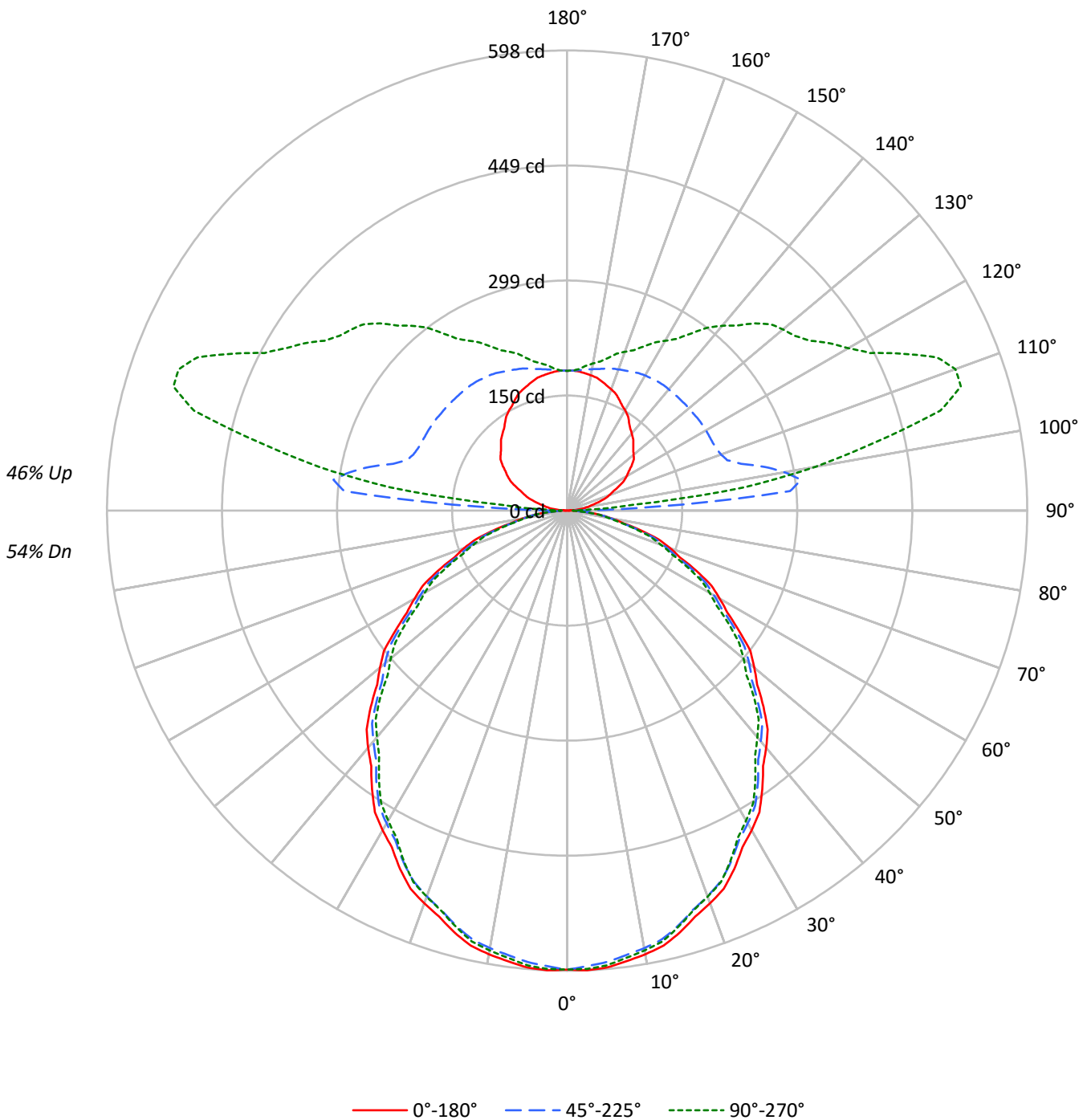
Input Watts (W): 20.3  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P332498-840

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### Luminous Intensity Polar Plot





TEST NUMBER: P332498-840

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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   | 108 | 108 | 108 | 108 | 100 | 100 | 100 | 100 | 85 | 85 | 85 | 72 | 72 | 72 | 60 | 60 | 60 | 54 |
| 1   | 99  | 94  | 90  | 87  | 91  | 87  | 84  | 81  | 75 | 72 | 70 | 63 | 61 | 60 | 53 | 51 | 50 | 45 |
| 2   | 90  | 82  | 76  | 71  | 83  | 76  | 71  | 66  | 66 | 61 | 58 | 56 | 53 | 50 | 46 | 44 | 42 | 38 |
| 3   | 82  | 72  | 65  | 59  | 76  | 67  | 61  | 56  | 58 | 53 | 49 | 49 | 45 | 42 | 41 | 38 | 36 | 32 |
| 4   | 75  | 64  | 56  | 50  | 69  | 60  | 53  | 47  | 51 | 46 | 42 | 44 | 40 | 36 | 37 | 34 | 31 | 27 |
| 5   | 69  | 57  | 49  | 43  | 63  | 53  | 46  | 40  | 46 | 40 | 36 | 39 | 35 | 31 | 33 | 30 | 27 | 24 |
| 6   | 63  | 51  | 43  | 37  | 59  | 48  | 41  | 35  | 41 | 36 | 31 | 36 | 31 | 28 | 30 | 26 | 24 | 21 |
| 7   | 59  | 46  | 38  | 33  | 54  | 43  | 36  | 31  | 38 | 32 | 28 | 32 | 28 | 24 | 27 | 24 | 21 | 19 |
| 8   | 54  | 42  | 34  | 29  | 50  | 39  | 32  | 27  | 34 | 29 | 25 | 30 | 25 | 22 | 25 | 22 | 19 | 17 |
| 9   | 51  | 38  | 31  | 26  | 47  | 36  | 29  | 24  | 31 | 26 | 22 | 27 | 23 | 20 | 23 | 20 | 17 | 15 |
| 10  | 47  | 35  | 28  | 23  | 44  | 33  | 26  | 22  | 29 | 24 | 20 | 25 | 21 | 18 | 22 | 18 | 16 | 14 |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 4816 | 4816 | 4816 |
| 5°  | 4830 | 4772 | 4807 |
| 10° | 4800 | 4733 | 4757 |
| 15° | 4741 | 4667 | 4679 |
| 20° | 4665 | 4582 | 4587 |
| 25° | 4577 | 4488 | 4475 |
| 30° | 4470 | 4376 | 4336 |
| 35° | 4357 | 4258 | 4202 |
| 40° | 4241 | 4126 | 4051 |
| 45° | 4120 | 3995 | 3919 |
| 50° | 3986 | 3878 | 3758 |
| 55° | 3842 | 3727 | 3606 |
| 60° | 3696 | 3559 | 3450 |
| 65° | 3534 | 3396 | 3261 |
| 70° | 3352 | 3182 | 3059 |
| 75° | 3072 | 2923 | 2848 |
| 80° | 2734 | 2627 | 2552 |
| 85° | 2399 | 2297 | 2251 |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 56.2   | 2.0       |
| 10°-20°   | 158.3  | 5.5       |
| 20°-30°   | 233.0  | 8.2       |
| 30°-40°   | 270.8  | 9.5       |
| 40°-50°   | 270.9  | 9.5       |
| 50°-60°   | 236.9  | 8.3       |
| 60°-70°   | 175.9  | 6.2       |
| 70°-80°   | 100.0  | 3.5       |
| 80°-90°   | 29.8   | 1.0       |
| 90°-100°  | 131.2  | 4.6       |
| 100°-110° | 273.1  | 9.6       |
| 110°-120° | 244.6  | 8.6       |
| 120°-130° | 205.8  | 7.2       |
| 130°-140° | 171.6  | 6.0       |
| 140°-150° | 131.1  | 4.6       |
| 150°-160° | 92.1   | 3.2       |
| 160°-170° | 54.2   | 1.9       |
| 170°-180° | 17.6   | 0.6       |
| 0°-30°    | 447.4  | 15.7      |
| 0°-40°    | 718.3  | 25.2      |
| 0°-60°    | 1226.1 | 43.0      |
| 0°-90°    | 1531.8 | 53.7      |
| 90°-120°  | 648.9  | 22.7      |
| 90°-150°  | 1157.3 | 40.6      |
| 90°-180°  | 1321.0 | 46.3      |
| 0°-180°   | 2853.1 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°  | 22.5° | 45° | 67.5° | 90° | Flux |
|------|-----|-------|-----|-------|-----|------|
| 0°   | 596 | 596   | 596 | 596   | 596 |      |
| 5°   | 596 | 594   | 589 | 594   | 593 | 57   |
| 15°  | 567 | 565   | 558 | 561   | 560 | 160  |
| 25°  | 514 | 510   | 504 | 504   | 502 | 236  |
| 35°  | 442 | 439   | 432 | 429   | 426 | 276  |
| 45°  | 361 | 357   | 350 | 345   | 343 | 278  |
| 55°  | 273 | 271   | 265 | 259   | 256 | 244  |
| 65°  | 185 | 182   | 178 | 173   | 171 | 183  |
| 75°  | 98  | 96    | 94  | 92    | 91  | 105  |
| 85°  | 26  | 26    | 25  | 25    | 24  | 28   |
| 90°  | 0   | 3     | 6   | 7     | 8   | 2    |
| 95°  | 12  | 37    | 291 | 144   | 87  | 13   |
| 105° | 42  | 60    | 234 | 504   | 502 | 45   |
| 115° | 74  | 92    | 209 | 401   | 482 | 73   |
| 125° | 102 | 122   | 208 | 341   | 385 | 91   |
| 135° | 122 | 145   | 206 | 303   | 344 | 94   |
| 145° | 140 | 161   | 205 | 256   | 281 | 88   |
| 155° | 160 | 172   | 199 | 226   | 235 | 74   |
| 165° | 174 | 179   | 191 | 202   | 205 | 49   |
| 175° | 181 | 182   | 183 | 186   | 185 | 17   |
| 180° | 182 | 182   | 182 | 182   | 182 |      |



TEST NUMBER: P332498-840

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**CANDELA DISTRIBUTION (FULL):**

|        | 0°    | 5°    | 10°   | 15°   | 20°   | 25°   | 30°   | 35°   | 40°   | 45°   | 50°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°     | 596.5 | 596.5 | 596.5 | 596.5 | 596.5 | 596.5 | 596.5 | 596.5 | 596.5 | 596.5 | 596.5 |
| 2.5°   | 598.0 | 597.8 | 597.5 | 597.3 | 597.0 | 596.4 | 595.5 | 594.6 | 593.7 | 592.7 | 593.6 |
| 5°     | 596.0 | 595.6 | 595.2 | 594.8 | 594.4 | 593.6 | 592.4 | 591.3 | 590.1 | 588.9 | 590.1 |
| 7.5°   | 590.6 | 590.1 | 589.7 | 589.3 | 588.9 | 587.9 | 586.6 | 585.4 | 584.1 | 582.8 | 583.7 |
| 10°    | 585.5 | 585.1 | 584.7 | 584.3 | 583.9 | 583.0 | 581.6 | 580.2 | 578.9 | 577.4 | 578.2 |
| 12.5°  | 579.1 | 578.7 | 578.2 | 577.7 | 577.3 | 576.4 | 574.9 | 573.5 | 572.0 | 570.6 | 571.5 |
| 15°    | 567.3 | 566.9 | 566.5 | 566.1 | 565.7 | 564.7 | 563.1 | 561.5 | 559.9 | 558.4 | 559.0 |
| 17.5°  | 553.3 | 552.8 | 552.3 | 551.8 | 551.2 | 550.2 | 548.7 | 547.1 | 545.6 | 544.1 | 544.5 |
| 20°    | 543.0 | 542.5 | 542.0 | 541.4 | 540.9 | 539.9 | 538.3 | 536.6 | 535.0 | 533.4 | 533.8 |
| 22.5°  | 531.9 | 531.2 | 530.5 | 529.8 | 529.1 | 528.0 | 526.3 | 524.8 | 523.2 | 521.6 | 522.2 |
| 25°    | 513.8 | 513.1 | 512.4 | 511.6 | 510.9 | 509.8 | 508.3 | 506.8 | 505.3 | 503.8 | 503.9 |
| 27.5°  | 493.2 | 492.4 | 491.7 | 490.9 | 490.2 | 489.1 | 487.7 | 486.4 | 484.9 | 483.5 | 483.3 |
| 30°    | 479.5 | 478.6 | 477.8 | 476.9 | 476.1 | 474.9 | 473.5 | 472.1 | 470.8 | 469.4 | 469.0 |
| 32.5°  | 464.9 | 464.1 | 463.3 | 462.6 | 461.8 | 460.7 | 459.3 | 457.8 | 456.4 | 454.8 | 454.3 |
| 35°    | 442.1 | 441.4 | 440.7 | 439.9 | 439.2 | 438.1 | 436.6 | 435.0 | 433.6 | 432.1 | 431.4 |
| 37.5°  | 418.2 | 417.5 | 416.8 | 416.2 | 415.5 | 414.3 | 412.7 | 411.1 | 409.5 | 407.9 | 407.1 |
| 40°    | 402.4 | 401.6 | 400.8 | 399.9 | 399.1 | 397.9 | 396.3 | 394.7 | 393.0 | 391.5 | 390.4 |
| 42.5°  | 385.7 | 385.2 | 384.7 | 384.2 | 383.6 | 382.4 | 380.7 | 378.9 | 377.2 | 375.5 | 374.2 |
| 45°    | 360.9 | 360.1 | 359.4 | 358.7 | 357.9 | 356.7 | 355.0 | 353.3 | 351.6 | 349.9 | 348.7 |
| 47.5°  | 335.0 | 334.5 | 334.0 | 333.5 | 333.0 | 331.9 | 330.3 | 328.7 | 327.2 | 325.6 | 324.3 |
| 50°    | 317.4 | 317.0 | 316.6 | 316.1 | 315.7 | 314.8 | 313.3 | 311.7 | 310.2 | 308.8 | 307.3 |
| 52.5°  | 300.2 | 299.6 | 299.1 | 298.6 | 298.1 | 297.1 | 295.5 | 294.0 | 292.4 | 290.8 | 289.5 |
| 55°    | 273.0 | 272.7 | 272.3 | 272.0 | 271.7 | 270.7 | 269.2 | 267.8 | 266.3 | 264.8 | 263.6 |
| 57.5°  | 246.9 | 246.6 | 246.2 | 245.9 | 245.5 | 244.6 | 243.1 | 241.7 | 240.1 | 238.7 | 237.5 |
| 60°    | 228.9 | 228.4 | 227.9 | 227.3 | 226.8 | 225.9 | 224.5 | 223.1 | 221.8 | 220.4 | 219.4 |
| 62.5°  | 211.4 | 211.0 | 210.5 | 210.1 | 209.5 | 208.6 | 207.1 | 205.7 | 204.2 | 202.8 | 201.9 |
| 65°    | 185.0 | 184.5 | 183.9 | 183.4 | 182.9 | 182.1 | 181.0 | 180.0 | 178.8 | 177.8 | 176.7 |
| 67.5°  | 158.4 | 157.9 | 157.4 | 156.9 | 156.4 | 155.7 | 154.7 | 153.7 | 152.7 | 151.6 | 150.6 |
| 70°    | 142.0 | 141.2 | 140.5 | 139.8 | 139.0 | 138.1 | 137.3 | 136.5 | 135.6 | 134.8 | 133.9 |
| 72.5°  | 124.4 | 123.6 | 122.9 | 122.2 | 121.4 | 120.7 | 120.0 | 119.4 | 118.7 | 118.0 | 117.2 |
| 75°    | 98.5  | 98.0  | 97.5  | 96.8  | 96.3  | 95.8  | 95.3  | 94.7  | 94.2  | 93.7  | 93.3  |
| 77.5°  | 73.7  | 73.5  | 73.2  | 73.0  | 72.8  | 72.4  | 72.0  | 71.5  | 71.0  | 70.6  | 70.4  |
| 80°    | 58.8  | 58.5  | 58.2  | 57.9  | 57.6  | 57.3  | 57.1  | 56.9  | 56.7  | 56.5  | 56.1  |
| 82.5°  | 44.2  | 44.1  | 43.9  | 43.8  | 43.6  | 43.5  | 43.5  | 43.5  | 43.4  | 43.4  | 43.3  |
| 85°    | 25.9  | 25.9  | 25.9  | 25.9  | 25.9  | 25.8  | 25.4  | 25.2  | 25.0  | 24.8  | 24.8  |
| 87.5°  | 10.0  | 10.1  | 10.2  | 10.2  | 10.2  | 10.1  | 10.4  | 10.3  | 10.4  | 10.5  | 10.4  |
| 90°    | 0.4   | 1.1   | 2.1   | 2.5   | 2.8   | 2.8   | 4.9   | 4.9   | 5.8   | 6.5   | 6.1   |
| 92.5°  | 4.0   | 6.0   | 9.3   | 13.6  | 18.9  | 26.3  | 44.4  | 72.1  | 99.1  | 113.2 | 94.3  |
| 95°    | 11.8  | 12.8  | 16.5  | 21.1  | 29.6  | 44.6  | 75.6  | 134.2 | 219.5 | 290.8 | 299.1 |
| 97.5°  | 21.1  | 21.1  | 24.2  | 28.5  | 35.9  | 48.4  | 72.3  | 120.7 | 205.4 | 306.4 | 375.8 |
| 100°   | 27.2  | 27.2  | 29.6  | 33.9  | 40.7  | 52.1  | 73.2  | 113.5 | 186.3 | 287.0 | 378.3 |
| 102.5° | 32.8  | 33.4  | 35.6  | 39.6  | 46.2  | 57.0  | 76.0  | 111.5 | 173.5 | 262.7 | 356.9 |
| 105°   | 41.8  | 42.8  | 44.6  | 48.9  | 55.3  | 65.6  | 82.8  | 112.4 | 162.4 | 234.1 | 318.0 |
| 107.5° | 51.6  | 52.3  | 54.1  | 58.7  | 64.8  | 75.0  | 90.7  | 117.8 | 160.4 | 218.1 | 286.6 |
| 110°   | 58.2  | 58.9  | 60.7  | 64.9  | 71.4  | 81.0  | 96.7  | 121.7 | 161.0 | 212.7 | 270.9 |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 5°    | 10°   | 15°   | 20°   | 25°   | 30°   | 35°   | 40°   | 45°   | 50°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 64.4  | 65.1  | 67.3  | 71.2  | 77.7  | 87.3  | 102.4 | 126.0 | 162.7 | 210.2 | 262.1 |
| 115°   | 73.5  | 74.6  | 77.1  | 80.7  | 87.5  | 97.0  | 111.4 | 132.8 | 165.9 | 208.8 | 253.8 |
| 117.5° | 82.9  | 83.9  | 86.1  | 90.1  | 96.4  | 106.4 | 120.0 | 139.7 | 169.5 | 208.4 | 250.0 |
| 120°   | 89.3  | 90.0  | 92.4  | 96.3  | 102.4 | 112.4 | 126.0 | 144.5 | 172.1 | 208.4 | 248.0 |
| 122.5° | 94.9  | 95.6  | 98.2  | 101.8 | 108.5 | 118.2 | 131.7 | 149.2 | 174.6 | 208.1 | 245.8 |
| 125°   | 102.4 | 103.8 | 106.0 | 110.0 | 116.7 | 126.7 | 139.6 | 155.9 | 178.4 | 207.7 | 242.0 |
| 127.5° | 109.1 | 110.2 | 112.8 | 117.2 | 124.3 | 134.4 | 146.8 | 161.9 | 181.6 | 206.9 | 236.9 |
| 130°   | 112.8 | 114.2 | 117.0 | 122.4 | 129.2 | 139.6 | 151.7 | 165.6 | 183.8 | 206.6 | 233.8 |
| 132.5° | 116.5 | 117.6 | 121.4 | 126.4 | 133.8 | 143.5 | 155.7 | 169.4 | 185.8 | 206.4 | 231.0 |
| 135°   | 121.7 | 123.1 | 126.7 | 132.8 | 140.3 | 149.6 | 161.3 | 174.2 | 188.8 | 205.9 | 226.6 |
| 137.5° | 126.9 | 128.3 | 132.2 | 137.9 | 145.7 | 154.6 | 165.6 | 177.6 | 190.6 | 205.9 | 223.0 |
| 140°   | 130.7 | 131.7 | 135.6 | 141.7 | 149.2 | 157.7 | 168.4 | 179.9 | 192.0 | 205.6 | 221.0 |
| 142.5° | 134.6 | 135.7 | 139.4 | 145.1 | 152.3 | 160.6 | 171.1 | 181.6 | 193.2 | 205.6 | 219.2 |
| 145°   | 140.3 | 141.4 | 144.9 | 149.9 | 156.7 | 164.5 | 173.8 | 183.5 | 193.8 | 204.9 | 216.3 |
| 147.5° | 146.6 | 146.9 | 150.2 | 155.2 | 160.9 | 167.9 | 176.6 | 185.1 | 194.2 | 203.6 | 213.7 |
| 150°   | 150.6 | 151.0 | 153.8 | 158.1 | 163.5 | 170.3 | 178.1 | 185.9 | 194.2 | 202.7 | 211.7 |
| 152.5° | 154.3 | 154.4 | 157.2 | 161.3 | 166.0 | 172.3 | 179.3 | 186.5 | 193.6 | 201.3 | 209.3 |
| 155°   | 159.6 | 159.9 | 162.1 | 165.6 | 169.6 | 174.9 | 181.0 | 187.0 | 192.8 | 199.1 | 205.9 |
| 157.5° | 164.6 | 164.6 | 166.6 | 169.4 | 172.8 | 177.0 | 182.2 | 187.0 | 191.8 | 196.9 | 202.5 |
| 160°   | 167.7 | 167.7 | 169.2 | 171.7 | 174.5 | 178.4 | 182.8 | 187.0 | 191.0 | 195.2 | 199.9 |
| 162.5° | 170.6 | 170.4 | 171.5 | 173.7 | 176.2 | 179.4 | 183.3 | 187.0 | 190.1 | 193.5 | 197.6 |
| 165°   | 173.8 | 173.8 | 174.5 | 176.3 | 178.1 | 180.3 | 183.5 | 186.3 | 188.4 | 191.0 | 193.8 |
| 167.5° | 177.0 | 176.6 | 177.0 | 178.3 | 179.4 | 181.1 | 183.4 | 185.4 | 186.7 | 188.3 | 190.4 |
| 170°   | 178.4 | 178.1 | 178.4 | 179.6 | 180.3 | 181.3 | 183.1 | 184.9 | 185.6 | 186.6 | 188.1 |
| 172.5° | 179.9 | 179.6 | 179.6 | 180.4 | 180.8 | 181.6 | 182.8 | 184.3 | 184.5 | 184.9 | 186.1 |
| 175°   | 181.3 | 181.0 | 181.0 | 181.3 | 181.7 | 181.7 | 182.4 | 183.5 | 183.1 | 183.1 | 183.8 |
| 177.5° | 182.0 | 181.7 | 181.4 | 181.7 | 181.7 | 181.7 | 182.0 | 182.5 | 182.0 | 182.0 | 182.3 |
| 180°   | 181.7 | 181.7 | 181.7 | 181.7 | 181.7 | 181.7 | 181.7 | 181.7 | 181.7 | 181.7 | 181.7 |



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**CANDELA DISTRIBUTION (continued):**

|        | 55°   | 60°   | 65°   | 70°   | 75°   | 80°   | 85°   | 90°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°     | 596.5 | 596.5 | 596.5 | 596.5 | 596.5 | 596.5 | 596.5 | 596.5 |
| 2.5°   | 594.4 | 595.3 | 596.1 | 596.5 | 596.4 | 596.3 | 596.2 | 596.1 |
| 5°     | 591.3 | 592.4 | 593.6 | 594.0 | 593.8 | 593.6 | 593.4 | 593.2 |
| 7.5°   | 584.6 | 585.6 | 586.5 | 586.9 | 586.8 | 586.6 | 586.5 | 586.4 |
| 10°    | 579.2 | 580.0 | 580.9 | 581.2 | 581.0 | 580.7 | 580.5 | 580.3 |
| 12.5°  | 572.4 | 573.3 | 574.3 | 574.6 | 574.3 | 574.0 | 573.7 | 573.4 |
| 15°    | 559.6 | 560.2 | 560.9 | 561.0 | 560.7 | 560.4 | 560.1 | 559.8 |
| 17.5°  | 544.9 | 545.3 | 545.7 | 545.8 | 545.6 | 545.4 | 545.2 | 545.0 |
| 20°    | 534.1 | 534.4 | 534.7 | 534.8 | 534.5 | 534.3 | 534.1 | 533.9 |
| 22.5°  | 522.7 | 523.3 | 523.9 | 524.0 | 523.6 | 523.2 | 522.8 | 522.5 |
| 25°    | 504.0 | 504.1 | 504.2 | 504.1 | 503.6 | 503.2 | 502.8 | 502.4 |
| 27.5°  | 483.0 | 482.8 | 482.5 | 482.1 | 481.6 | 481.1 | 480.5 | 480.0 |
| 30°    | 468.6 | 468.2 | 467.7 | 467.3 | 466.7 | 466.2 | 465.6 | 465.1 |
| 32.5°  | 453.8 | 453.3 | 452.8 | 452.3 | 451.8 | 451.2 | 450.7 | 450.2 |
| 35°    | 430.6 | 429.9 | 429.1 | 428.5 | 428.0 | 427.5 | 426.9 | 426.4 |
| 37.5°  | 406.3 | 405.5 | 404.7 | 403.9 | 403.2 | 402.5 | 401.8 | 401.1 |
| 40°    | 389.4 | 388.3 | 387.3 | 386.5 | 385.9 | 385.4 | 384.9 | 384.4 |
| 42.5°  | 372.9 | 371.7 | 370.5 | 369.7 | 369.3 | 369.0 | 368.6 | 368.3 |
| 45°    | 347.6 | 346.4 | 345.3 | 344.5 | 344.2 | 343.9 | 343.6 | 343.3 |
| 47.5°  | 323.0 | 321.6 | 320.3 | 319.3 | 318.5 | 317.7 | 316.9 | 316.1 |
| 50°    | 305.8 | 304.4 | 302.9 | 301.7 | 301.1 | 300.5 | 299.8 | 299.2 |
| 52.5°  | 288.2 | 286.9 | 285.6 | 284.5 | 283.7 | 282.9 | 282.1 | 281.2 |
| 55°    | 262.3 | 260.9 | 259.7 | 258.7 | 258.1 | 257.5 | 256.8 | 256.2 |
| 57.5°  | 236.3 | 235.1 | 233.9 | 233.0 | 232.4 | 231.8 | 231.2 | 230.5 |
| 60°    | 218.4 | 217.5 | 216.5 | 215.8 | 215.3 | 214.7 | 214.2 | 213.7 |
| 62.5°  | 201.1 | 200.2 | 199.2 | 198.5 | 198.0 | 197.5 | 197.0 | 196.4 |
| 65°    | 175.7 | 174.6 | 173.6 | 172.8 | 172.3 | 171.7 | 171.2 | 170.7 |
| 67.5°  | 149.6 | 148.6 | 147.5 | 146.9 | 146.8 | 146.6 | 146.5 | 146.3 |
| 70°    | 133.1 | 132.3 | 131.4 | 130.8 | 130.5 | 130.2 | 129.9 | 129.6 |
| 72.5°  | 116.6 | 115.9 | 115.2 | 114.7 | 114.4 | 114.1 | 113.8 | 113.5 |
| 75°    | 92.8  | 92.4  | 92.0  | 91.7  | 91.6  | 91.5  | 91.4  | 91.3  |
| 77.5°  | 70.3  | 70.2  | 70.1  | 69.9  | 69.6  | 69.3  | 69.0  | 68.8  |
| 80°    | 55.9  | 55.7  | 55.5  | 55.4  | 55.2  | 55.1  | 55.0  | 54.9  |
| 82.5°  | 43.1  | 43.0  | 42.9  | 42.8  | 42.7  | 42.5  | 42.4  | 42.3  |
| 85°    | 24.8  | 24.8  | 24.8  | 24.8  | 24.7  | 24.6  | 24.4  | 24.3  |
| 87.5°  | 10.5  | 10.5  | 10.6  | 10.6  | 10.7  | 10.7  | 10.7  | 10.7  |
| 90°    | 6.5   | 6.8   | 7.2   | 7.2   | 7.5   | 7.9   | 7.5   | 7.5   |
| 92.5°  | 70.1  | 52.7  | 42.0  | 34.8  | 30.6  | 28.7  | 27.5  | 27.5  |
| 95°    | 264.5 | 209.1 | 161.3 | 126.7 | 109.2 | 98.2  | 91.7  | 87.1  |
| 97.5°  | 390.7 | 370.2 | 335.3 | 298.0 | 272.4 | 251.0 | 240.2 | 232.8 |
| 100°   | 430.4 | 437.6 | 420.1 | 393.6 | 362.6 | 340.8 | 330.1 | 327.3 |
| 102.5° | 428.5 | 463.8 | 468.9 | 457.9 | 438.9 | 423.1 | 411.8 | 409.5 |
| 105°   | 399.7 | 461.5 | 496.9 | 511.5 | 512.2 | 509.3 | 504.3 | 502.2 |
| 107.5° | 359.0 | 424.7 | 474.4 | 506.3 | 523.9 | 532.1 | 535.6 | 536.5 |
| 110°   | 334.5 | 396.2 | 448.0 | 487.2 | 512.5 | 527.6 | 533.9 | 537.1 |





TEST NUMBER: P332498-840

CATALOG NUMBER: S124DIP-S350D365U840-4F0-1E-UDD-F4

**CANDELA DISTRIBUTION (continued):**

|        | 55°   | 60°   | 65°   | 70°   | 75°   | 80°   | 85°   | 90°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 316.4 | 371.0 | 419.9 | 459.2 | 488.0 | 506.1 | 515.1 | 520.3 |
| 115°   | 298.4 | 342.2 | 384.1 | 418.3 | 446.5 | 467.9 | 479.4 | 482.2 |
| 117.5° | 289.5 | 325.9 | 358.7 | 387.8 | 411.8 | 429.8 | 441.3 | 443.5 |
| 120°   | 285.5 | 318.7 | 347.3 | 372.6 | 392.9 | 408.7 | 418.0 | 421.9 |
| 122.5° | 282.1 | 314.2 | 340.1 | 362.3 | 379.5 | 392.9 | 400.8 | 404.8 |
| 125°   | 276.3 | 306.9 | 331.5 | 351.2 | 365.5 | 375.9 | 382.6 | 384.8 |
| 127.5° | 269.1 | 298.4 | 323.1 | 341.6 | 356.0 | 365.2 | 370.9 | 373.0 |
| 130°   | 263.4 | 291.6 | 315.9 | 334.8 | 349.4 | 358.3 | 364.1 | 366.2 |
| 132.5° | 257.4 | 283.9 | 307.6 | 326.5 | 340.8 | 350.9 | 356.4 | 358.5 |
| 135°   | 249.1 | 272.4 | 294.1 | 311.9 | 326.2 | 336.2 | 341.9 | 344.1 |
| 137.5° | 241.7 | 261.3 | 279.6 | 295.7 | 309.1 | 318.9 | 323.7 | 326.2 |
| 140°   | 237.3 | 254.1 | 270.1 | 285.2 | 297.7 | 305.5 | 310.5 | 313.4 |
| 142.5° | 233.4 | 248.1 | 261.9 | 274.9 | 286.0 | 293.3 | 297.7 | 299.6 |
| 145°   | 227.7 | 239.8 | 250.5 | 260.5 | 269.4 | 275.5 | 279.1 | 280.8 |
| 147.5° | 223.1 | 232.7 | 241.3 | 249.1 | 255.7 | 260.9 | 263.6 | 264.3 |
| 150°   | 220.3 | 228.4 | 235.6 | 242.0 | 247.7 | 252.4 | 254.5 | 254.8 |
| 152.5° | 217.1 | 224.2 | 230.8 | 236.0 | 240.9 | 244.6 | 245.9 | 246.3 |
| 155°   | 212.4 | 218.0 | 223.4 | 227.7 | 231.3 | 234.1 | 235.2 | 235.2 |
| 157.5° | 207.3 | 212.1 | 216.6 | 220.0 | 222.7 | 224.9 | 225.5 | 225.5 |
| 160°   | 204.2 | 208.0 | 212.0 | 214.9 | 217.0 | 219.1 | 219.5 | 219.5 |
| 162.5° | 201.1 | 204.4 | 207.4 | 210.1 | 211.6 | 213.7 | 214.1 | 213.8 |
| 165°   | 196.6 | 198.8 | 201.3 | 203.1 | 204.5 | 205.9 | 205.6 | 205.2 |
| 167.5° | 192.5 | 194.1 | 196.1 | 197.1 | 197.8 | 198.8 | 198.7 | 198.4 |
| 170°   | 189.9 | 191.0 | 192.4 | 193.5 | 194.2 | 194.5 | 194.2 | 194.2 |
| 172.5° | 187.6 | 188.3 | 189.2 | 190.1 | 190.5 | 190.8 | 190.5 | 189.9 |
| 175°   | 184.5 | 184.9 | 185.6 | 185.6 | 185.6 | 186.3 | 185.6 | 184.9 |
| 177.5° | 182.5 | 182.8 | 182.8 | 183.1 | 182.8 | 183.1 | 182.5 | 182.0 |
| 180°   | 181.7 | 181.7 | 181.7 | 181.7 | 181.7 | 181.7 | 181.7 | 181.7 |

(END OF REPORT)