

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: P332513-840

Luminaire Tested: **S124DIP-S350D810U840-4F0-1E-UDD-D4**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P332513-840  
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-S350D810U840-4F0-1E-UDD-D4  
Description: DEFINE 4 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 350 LUMENS PER FOOT, DROP SATIN WHITE DIFFUSER  
UPLIGHT 810 LUMENS PER FOOT, BATWING OPTIC  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4380.5 lumens  
Efficiency: N/A  
Efficacy: 140.4 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.39  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.08')  
CIE Type: Semi-Indirect

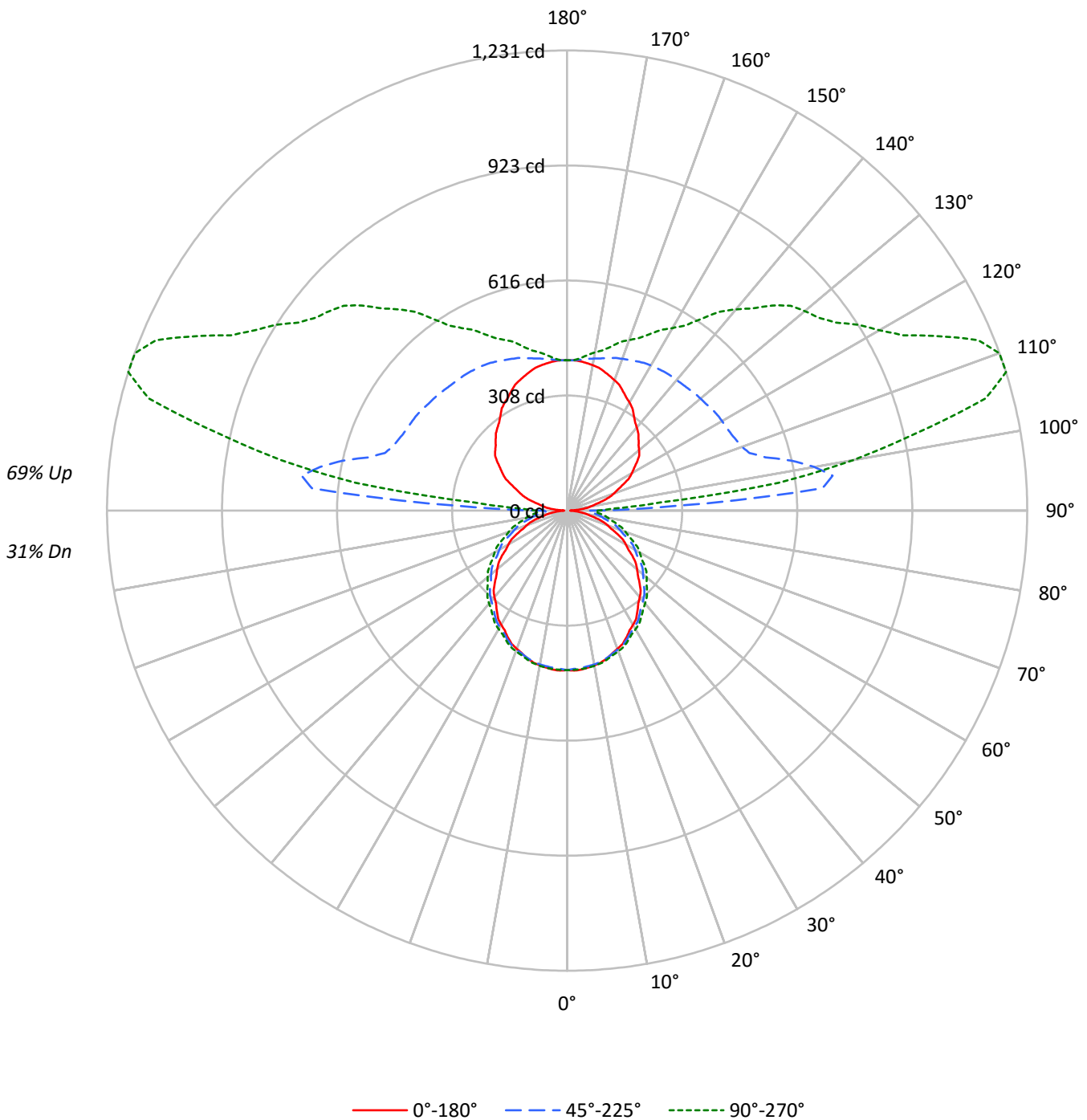
Input Watts (W): 31.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P332513-840

CATALOG NUMBER: S124DIP-S350D810U840-4F0-1E-UDD-D4

### Luminous Intensity Polar Plot





TEST NUMBER: P332513-840

CATALOG NUMBER: S124DIP-S350D810U840-4F0-1E-UDD-D4

**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 | 38 | 38 | 38 | 31 |
| 1   | 93  | 88  | 84  | 81  | 83 | 79 | 76 | 73 | 63 | 60 | 58 | 47 | 46 | 44 | 33 | 32 | 31 | 25 |
| 2   | 84  | 77  | 71  | 65  | 75 | 69 | 64 | 59 | 54 | 51 | 48 | 41 | 39 | 36 | 29 | 27 | 26 | 20 |
| 3   | 77  | 67  | 60  | 54  | 68 | 60 | 54 | 49 | 48 | 43 | 40 | 36 | 33 | 30 | 25 | 23 | 22 | 17 |
| 4   | 70  | 59  | 51  | 45  | 62 | 53 | 47 | 41 | 42 | 37 | 33 | 32 | 29 | 26 | 22 | 20 | 18 | 14 |
| 5   | 64  | 53  | 44  | 39  | 57 | 47 | 40 | 35 | 38 | 32 | 29 | 28 | 25 | 22 | 20 | 18 | 16 | 12 |
| 6   | 59  | 47  | 39  | 33  | 53 | 42 | 35 | 30 | 34 | 29 | 25 | 26 | 22 | 19 | 18 | 16 | 14 | 11 |
| 7   | 54  | 42  | 34  | 29  | 48 | 38 | 31 | 26 | 30 | 25 | 22 | 23 | 20 | 17 | 16 | 14 | 12 | 9  |
| 8   | 50  | 38  | 30  | 25  | 45 | 34 | 28 | 23 | 28 | 23 | 19 | 21 | 18 | 15 | 15 | 13 | 11 | 8  |
| 9   | 47  | 35  | 27  | 22  | 42 | 31 | 25 | 20 | 25 | 20 | 17 | 19 | 16 | 13 | 14 | 11 | 10 | 7  |
| 10  | 43  | 32  | 25  | 20  | 39 | 29 | 22 | 18 | 23 | 18 | 15 | 18 | 14 | 12 | 13 | 10 | 9  | 7  |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 3446 | 3446 | 3446 |
| 5°  | 3457 | 3367 | 3378 |
| 10° | 3435 | 3313 | 3310 |
| 15° | 3404 | 3249 | 3231 |
| 20° | 3358 | 3179 | 3155 |
| 25° | 3306 | 3100 | 3070 |
| 30° | 3249 | 3021 | 2983 |
| 35° | 3185 | 2941 | 2907 |
| 40° | 3134 | 2865 | 2828 |
| 45° | 3058 | 2793 | 2759 |
| 50° | 2994 | 2713 | 2687 |
| 55° | 2928 | 2636 | 2603 |
| 60° | 2824 | 2538 | 2526 |
| 65° | 2708 | 2435 | 2431 |
| 70° | 2572 | 2315 | 2320 |
| 75° | 2379 | 2183 | 2220 |
| 80° | 2166 | 2057 | 2123 |
| 85° | 1893 | 1946 | 2065 |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 40.4   | 0.9       |
| 10°-20°   | 115.8  | 2.6       |
| 20°-30°   | 175.1  | 4.0       |
| 30°-40°   | 211.9  | 4.8       |
| 40°-50°   | 224.0  | 5.1       |
| 50°-60°   | 210.8  | 4.8       |
| 60°-70°   | 174.9  | 4.0       |
| 70°-80°   | 122.9  | 2.8       |
| 80°-90°   | 71.7   | 1.6       |
| 90°-100°  | 331.5  | 7.6       |
| 100°-110° | 634.7  | 14.5      |
| 110°-120° | 561.7  | 12.8      |
| 120°-130° | 466.8  | 10.7      |
| 130°-140° | 384.6  | 8.8       |
| 140°-150° | 291.0  | 6.6       |
| 150°-160° | 203.8  | 4.7       |
| 160°-170° | 119.9  | 2.7       |
| 170°-180° | 39.0   | 0.9       |
| 0°-30°    | 331.4  | 7.6       |
| 0°-40°    | 543.2  | 12.4      |
| 0°-60°    | 978.1  | 22.3      |
| 0°-90°    | 1347.5 | 30.8      |
| 90°-120°  | 1527.9 | 34.9      |
| 90°-150°  | 2670.3 | 61.0      |
| 90°-180°  | 3033.0 | 69.2      |
| 0°-180°   | 4380.5 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°  | 22.5° | 45° | 67.5° | 90°  | Flux |
|------|-----|-------|-----|-------|------|------|
| 0°   | 427 | 427   | 427 | 427   | 427  |      |
| 5°   | 427 | 426   | 422 | 426   | 426  | 41   |
| 15°  | 410 | 410   | 409 | 413   | 412  | 115  |
| 25°  | 375 | 378   | 379 | 384   | 385  | 173  |
| 35°  | 328 | 334   | 338 | 345   | 347  | 205  |
| 45°  | 273 | 282   | 292 | 299   | 302  | 211  |
| 55°  | 214 | 224   | 238 | 248   | 251  | 191  |
| 65°  | 148 | 164   | 180 | 191   | 196  | 147  |
| 75°  | 82  | 100   | 120 | 133   | 138  | 87   |
| 85°  | 25  | 46    | 67  | 81    | 86   | 27   |
| 90°  | 8   | 33    | 62  | 76    | 82   | 7    |
| 95°  | 32  | 104   | 685 | 373   | 252  | 34   |
| 105° | 97  | 148   | 550 | 1158  | 1158 | 103  |
| 115° | 166 | 212   | 484 | 920   | 1103 | 164  |
| 125° | 228 | 271   | 473 | 777   | 877  | 204  |
| 135° | 270 | 322   | 460 | 682   | 776  | 209  |
| 145° | 311 | 355   | 453 | 568   | 626  | 195  |
| 155° | 353 | 381   | 441 | 499   | 520  | 163  |
| 165° | 385 | 396   | 422 | 447   | 454  | 109  |
| 175° | 401 | 402   | 405 | 411   | 409  | 38   |
| 180° | 402 | 402   | 402 | 402   | 402  |      |



TEST NUMBER: P332513-840

CATALOG NUMBER: S124DIP-S350D810U840-4F0-1E-UDD-D4

**CANDELA DISTRIBUTION (FULL):**

|        | 0°    | 5°    | 10°   | 15°   | 20°   | 25°   | 30°   | 35°   | 40°   | 45°   | 50°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°     | 426.9 | 426.9 | 426.9 | 426.9 | 426.9 | 426.9 | 426.9 | 426.9 | 426.9 | 426.9 | 426.9 |
| 2.5°   | 428.4 | 428.1 | 427.9 | 427.6 | 427.4 | 426.9 | 426.3 | 425.6 | 424.9 | 424.1 | 424.7 |
| 5°     | 427.4 | 427.0 | 426.7 | 426.4 | 426.1 | 425.6 | 424.7 | 424.0 | 423.3 | 422.5 | 423.4 |
| 7.5°   | 423.7 | 423.5 | 423.3 | 423.1 | 422.9 | 422.5 | 421.9 | 421.3 | 420.7 | 420.1 | 421.0 |
| 10°    | 420.6 | 420.5 | 420.4 | 420.3 | 420.2 | 419.9 | 419.4 | 418.8 | 418.3 | 417.8 | 418.7 |
| 12.5°  | 416.5 | 416.4 | 416.4 | 416.4 | 416.4 | 416.2 | 415.8 | 415.5 | 415.1 | 414.8 | 415.6 |
| 15°    | 409.6 | 409.8 | 409.9 | 410.0 | 410.1 | 410.0 | 409.6 | 409.3 | 409.0 | 408.7 | 409.6 |
| 17.5°  | 400.4 | 400.7 | 401.0 | 401.3 | 401.6 | 401.8 | 401.7 | 401.6 | 401.6 | 401.5 | 402.5 |
| 20°    | 393.8 | 394.2 | 394.6 | 394.9 | 395.2 | 395.4 | 395.5 | 395.6 | 395.7 | 395.8 | 396.9 |
| 22.5°  | 386.6 | 387.0 | 387.4 | 387.8 | 388.2 | 388.5 | 388.7 | 388.9 | 389.1 | 389.3 | 390.3 |
| 25°    | 374.8 | 375.4 | 376.1 | 376.7 | 377.3 | 377.8 | 378.1 | 378.4 | 378.7 | 379.1 | 380.2 |
| 27.5°  | 361.5 | 362.5 | 363.5 | 364.4 | 365.3 | 366.0 | 366.5 | 367.0 | 367.5 | 368.0 | 369.0 |
| 30°    | 352.7 | 353.7 | 354.5 | 355.3 | 356.2 | 357.0 | 357.7 | 358.4 | 359.2 | 359.9 | 361.1 |
| 32.5°  | 343.3 | 344.3 | 345.3 | 346.3 | 347.3 | 348.2 | 349.0 | 349.8 | 350.7 | 351.5 | 352.8 |
| 35°    | 327.9 | 329.2 | 330.4 | 331.7 | 333.1 | 334.2 | 335.3 | 336.3 | 337.4 | 338.4 | 339.9 |
| 37.5°  | 312.6 | 314.0 | 315.5 | 316.9 | 318.4 | 319.7 | 321.1 | 322.4 | 323.8 | 325.1 | 326.6 |
| 40°    | 302.6 | 304.0 | 305.4 | 306.7 | 308.1 | 309.5 | 311.0 | 312.6 | 314.0 | 315.5 | 317.1 |
| 42.5°  | 291.1 | 292.7 | 294.2 | 295.8 | 297.3 | 298.9 | 300.7 | 302.5 | 304.2 | 305.9 | 307.7 |
| 45°    | 273.4 | 275.4 | 277.4 | 279.4 | 281.4 | 283.5 | 285.5 | 287.5 | 289.5 | 291.5 | 293.4 |
| 47.5°  | 256.5 | 258.6 | 260.6 | 262.8 | 264.8 | 267.0 | 269.3 | 271.8 | 274.1 | 276.4 | 278.2 |
| 50°    | 244.3 | 246.6 | 248.9 | 251.3 | 253.6 | 255.9 | 258.3 | 260.6 | 263.0 | 265.3 | 267.4 |
| 52.5°  | 232.1 | 234.4 | 236.7 | 239.0 | 241.4 | 243.9 | 246.5 | 249.2 | 251.9 | 254.6 | 256.7 |
| 55°    | 214.2 | 216.4 | 218.6 | 220.9 | 223.1 | 225.8 | 228.9 | 232.2 | 235.3 | 238.5 | 240.7 |
| 57.5°  | 194.2 | 196.9 | 199.7 | 202.5 | 205.2 | 208.1 | 211.4 | 214.5 | 217.6 | 220.9 | 223.4 |
| 60°    | 181.2 | 183.9 | 186.7 | 189.5 | 192.2 | 195.3 | 198.8 | 202.4 | 205.8 | 209.3 | 211.8 |
| 62.5°  | 168.5 | 171.6 | 174.6 | 177.6 | 180.6 | 183.9 | 187.3 | 190.9 | 194.4 | 197.9 | 200.4 |
| 65°    | 148.1 | 151.6 | 155.0 | 158.3 | 161.8 | 165.3 | 168.8 | 172.5 | 176.1 | 179.8 | 182.4 |
| 67.5°  | 128.6 | 132.2 | 135.8 | 139.5 | 143.0 | 146.7 | 150.7 | 154.5 | 158.3 | 162.2 | 164.9 |
| 70°    | 115.2 | 118.8 | 122.4 | 126.0 | 129.7 | 133.5 | 137.5 | 141.6 | 145.6 | 149.7 | 152.5 |
| 72.5°  | 102.2 | 105.9 | 109.6 | 113.3 | 116.9 | 121.0 | 125.2 | 129.6 | 133.8 | 138.1 | 140.9 |
| 75°    | 82.2  | 86.1  | 90.1  | 94.0  | 98.0  | 102.1 | 106.6 | 111.1 | 115.5 | 120.0 | 123.0 |
| 77.5°  | 63.6  | 67.8  | 71.9  | 76.0  | 80.2  | 84.6  | 89.3  | 94.0  | 98.7  | 103.3 | 106.3 |
| 80°    | 52.1  | 56.4  | 60.6  | 64.8  | 69.1  | 73.5  | 78.3  | 82.9  | 87.6  | 92.3  | 95.4  |
| 82.5°  | 40.6  | 45.0  | 49.5  | 53.9  | 58.3  | 62.8  | 67.6  | 72.2  | 76.9  | 81.6  | 84.8  |
| 85°    | 25.3  | 29.8  | 34.2  | 38.7  | 43.2  | 47.8  | 52.6  | 57.4  | 62.1  | 67.0  | 70.1  |
| 87.5°  | 14.3  | 19.0  | 23.7  | 28.3  | 32.7  | 37.3  | 42.8  | 47.5  | 52.4  | 57.5  | 60.4  |
| 90°    | 8.5   | 14.2  | 20.9  | 26.0  | 31.0  | 35.3  | 44.6  | 49.3  | 55.3  | 61.5  | 63.8  |
| 92.5°  | 16.3  | 24.2  | 35.4  | 48.9  | 64.2  | 84.8  | 129.6 | 195.4 | 259.6 | 295.5 | 256.6 |
| 95°    | 32.3  | 38.2  | 49.6  | 63.3  | 85.7  | 122.9 | 195.9 | 329.8 | 522.8 | 685.1 | 706.2 |
| 97.5°  | 52.4  | 55.4  | 65.2  | 77.7  | 96.9  | 128.5 | 185.7 | 296.9 | 488.8 | 716.4 | 872.7 |
| 100°   | 65.2  | 68.1  | 76.3  | 88.6  | 106.3 | 135.0 | 185.8 | 279.1 | 444.3 | 671.2 | 876.3 |
| 102.5° | 77.9  | 81.6  | 88.9  | 100.2 | 116.9 | 144.2 | 190.5 | 273.0 | 414.1 | 615.6 | 826.9 |
| 105°   | 96.6  | 101.2 | 107.2 | 118.9 | 135.2 | 161.1 | 203.0 | 272.5 | 386.9 | 549.6 | 737.8 |
| 107.5° | 118.4 | 121.7 | 127.4 | 139.3 | 154.6 | 179.9 | 218.3 | 281.8 | 379.9 | 511.4 | 665.5 |
| 110°   | 132.5 | 135.6 | 141.1 | 152.0 | 167.7 | 191.7 | 230.0 | 289.1 | 379.6 | 497.9 | 629.0 |



TEST NUMBER: P332513-840

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**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 5°    | 10°   | 15°   | 20°   | 25°   | 30°   | 35°   | 40°   | 45°   | 50°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 146.0 | 149.0 | 154.8 | 165.0 | 180.6 | 204.3 | 241.4 | 297.0 | 381.7 | 490.3 | 607.4 |
| 115°   | 165.5 | 168.8 | 175.3 | 184.2 | 200.2 | 223.7 | 258.6 | 309.4 | 386.3 | 484.4 | 586.2 |
| 117.5° | 186.3 | 189.0 | 194.5 | 203.8 | 218.4 | 242.4 | 275.6 | 322.3 | 391.3 | 480.7 | 575.0 |
| 120°   | 199.8 | 201.7 | 207.5 | 216.5 | 230.2 | 254.1 | 287.2 | 331.3 | 395.2 | 478.9 | 568.7 |
| 122.5° | 212.5 | 214.1 | 219.6 | 227.8 | 242.6 | 265.5 | 298.4 | 339.8 | 399.2 | 476.3 | 561.7 |
| 125°   | 228.5 | 231.6 | 236.2 | 244.8 | 259.7 | 283.1 | 314.2 | 353.1 | 405.6 | 472.9 | 550.8 |
| 127.5° | 243.2 | 245.6 | 251.2 | 260.9 | 276.5 | 299.7 | 329.2 | 364.7 | 410.1 | 468.4 | 536.5 |
| 130°   | 251.0 | 254.0 | 260.2 | 272.0 | 286.9 | 310.5 | 339.1 | 371.6 | 413.5 | 465.9 | 527.8 |
| 132.5° | 259.1 | 261.6 | 269.7 | 280.8 | 297.0 | 319.2 | 347.4 | 379.0 | 416.8 | 463.6 | 519.8 |
| 135°   | 270.2 | 273.4 | 281.2 | 294.7 | 311.2 | 332.1 | 359.0 | 388.2 | 421.3 | 459.9 | 507.5 |
| 137.5° | 281.8 | 284.7 | 293.3 | 305.9 | 323.1 | 342.7 | 367.4 | 394.4 | 423.4 | 457.6 | 496.9 |
| 140°   | 289.9 | 292.3 | 300.8 | 314.2 | 330.6 | 349.5 | 373.3 | 398.7 | 425.7 | 455.8 | 491.1 |
| 142.5° | 298.4 | 300.7 | 308.8 | 321.5 | 337.5 | 355.8 | 378.8 | 402.1 | 427.6 | 455.0 | 486.4 |
| 145°   | 310.8 | 313.1 | 320.8 | 331.8 | 346.7 | 364.1 | 384.6 | 405.9 | 428.8 | 453.2 | 479.2 |
| 147.5° | 324.9 | 325.6 | 332.3 | 343.7 | 356.0 | 371.6 | 390.9 | 409.5 | 429.6 | 450.4 | 472.7 |
| 150°   | 333.7 | 334.4 | 340.6 | 349.9 | 361.7 | 376.7 | 394.0 | 411.4 | 429.6 | 448.5 | 468.3 |
| 152.5° | 341.5 | 341.6 | 348.0 | 356.8 | 367.4 | 381.1 | 396.6 | 412.6 | 428.3 | 445.4 | 463.2 |
| 155°   | 352.9 | 353.8 | 358.5 | 366.4 | 375.1 | 386.9 | 400.3 | 413.7 | 426.4 | 440.6 | 455.7 |
| 157.5° | 364.2 | 364.2 | 368.6 | 374.8 | 382.3 | 391.6 | 403.0 | 413.7 | 424.3 | 435.8 | 447.9 |
| 160°   | 371.1 | 371.1 | 374.3 | 379.8 | 386.2 | 394.9 | 404.2 | 413.7 | 422.4 | 431.9 | 442.2 |
| 162.5° | 377.5 | 376.8 | 379.3 | 384.3 | 389.9 | 396.7 | 405.6 | 413.7 | 420.6 | 428.2 | 437.2 |
| 165°   | 384.6 | 384.6 | 386.2 | 390.1 | 394.0 | 398.8 | 405.9 | 412.2 | 417.0 | 422.4 | 428.8 |
| 167.5° | 391.6 | 390.9 | 391.6 | 394.7 | 396.9 | 400.5 | 405.8 | 410.3 | 413.1 | 416.8 | 421.2 |
| 170°   | 394.9 | 394.0 | 394.9 | 397.2 | 398.8 | 401.1 | 405.1 | 409.0 | 410.6 | 412.9 | 416.2 |
| 172.5° | 398.0 | 397.2 | 397.4 | 399.1 | 400.0 | 401.7 | 404.5 | 407.8 | 408.1 | 409.2 | 411.7 |
| 175°   | 401.1 | 400.3 | 400.3 | 401.1 | 401.9 | 401.9 | 403.5 | 405.9 | 405.1 | 405.1 | 406.7 |
| 177.5° | 402.5 | 401.9 | 401.3 | 401.9 | 401.9 | 401.9 | 402.5 | 403.8 | 402.5 | 402.5 | 403.1 |
| 180°   | 401.9 | 401.9 | 401.9 | 401.9 | 401.9 | 401.9 | 401.9 | 401.9 | 401.9 | 401.9 | 401.9 |



TEST NUMBER: P332513-840

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**CANDELA DISTRIBUTION (continued):**

|        | 55°   | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    |
|--------|-------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 426.9 | 426.9  | 426.9  | 426.9  | 426.9  | 426.9  | 426.9  | 426.9  |
| 2.5°   | 425.4 | 426.0  | 426.6  | 426.8  | 426.8  | 426.7  | 426.6  | 426.5  |
| 5°     | 424.2 | 425.1  | 426.0  | 426.4  | 426.3  | 426.1  | 426.0  | 425.9  |
| 7.5°   | 422.0 | 422.9  | 423.9  | 424.3  | 424.2  | 424.1  | 424.0  | 423.9  |
| 10°    | 419.7 | 420.6  | 421.6  | 422.0  | 421.9  | 421.8  | 421.7  | 421.6  |
| 12.5°  | 416.5 | 417.4  | 418.2  | 418.6  | 418.6  | 418.6  | 418.6  | 418.5  |
| 15°    | 410.6 | 411.5  | 412.5  | 412.9  | 412.8  | 412.7  | 412.6  | 412.5  |
| 17.5°  | 403.4 | 404.5  | 405.5  | 405.9  | 405.8  | 405.7  | 405.7  | 405.6  |
| 20°    | 397.9 | 399.0  | 400.0  | 400.6  | 400.6  | 400.6  | 400.6  | 400.6  |
| 22.5°  | 391.4 | 392.4  | 393.5  | 394.2  | 394.4  | 394.5  | 394.7  | 394.9  |
| 25°    | 381.4 | 382.5  | 383.7  | 384.4  | 384.5  | 384.6  | 384.7  | 384.8  |
| 27.5°  | 370.1 | 371.2  | 372.3  | 372.9  | 373.0  | 373.1  | 373.2  | 373.4  |
| 30°    | 362.2 | 363.5  | 364.6  | 365.3  | 365.5  | 365.8  | 366.0  | 366.2  |
| 32.5°  | 354.2 | 355.6  | 356.9  | 357.7  | 357.9  | 358.1  | 358.3  | 358.5  |
| 35°    | 341.4 | 342.8  | 344.4  | 345.3  | 345.6  | 345.9  | 346.3  | 346.6  |
| 37.5°  | 328.1 | 329.5  | 331.0  | 332.0  | 332.3  | 332.6  | 333.1  | 333.4  |
| 40°    | 318.7 | 320.2  | 321.8  | 322.9  | 323.3  | 323.8  | 324.2  | 324.6  |
| 42.5°  | 309.4 | 311.2  | 313.0  | 314.1  | 314.4  | 314.7  | 315.1  | 315.4  |
| 45°    | 295.2 | 297.0  | 298.8  | 299.9  | 300.5  | 301.0  | 301.5  | 302.1  |
| 47.5°  | 280.1 | 282.0  | 283.9  | 285.1  | 285.8  | 286.4  | 287.0  | 287.7  |
| 50°    | 269.5 | 271.7  | 273.8  | 275.2  | 275.8  | 276.4  | 277.1  | 277.7  |
| 52.5°  | 258.8 | 260.9  | 263.1  | 264.5  | 265.1  | 265.7  | 266.4  | 267.0  |
| 55°    | 242.8 | 244.9  | 247.0  | 248.4  | 249.0  | 249.6  | 250.3  | 251.0  |
| 57.5°  | 225.9 | 228.4  | 231.0  | 232.5  | 233.1  | 233.7  | 234.3  | 234.9  |
| 60°    | 214.3 | 216.7  | 219.1  | 220.8  | 221.7  | 222.5  | 223.4  | 224.2  |
| 62.5°  | 202.8 | 205.2  | 207.6  | 209.3  | 210.2  | 211.0  | 211.9  | 212.7  |
| 65°    | 185.0 | 187.7  | 190.4  | 192.1  | 193.0  | 193.8  | 194.7  | 195.5  |
| 67.5°  | 167.6 | 170.4  | 173.0  | 174.8  | 175.6  | 176.4  | 177.2  | 178.1  |
| 70°    | 155.3 | 158.2  | 161.1  | 162.9  | 163.6  | 164.4  | 165.1  | 165.8  |
| 72.5°  | 143.7 | 146.5  | 149.3  | 151.1  | 151.9  | 152.7  | 153.6  | 154.4  |
| 75°    | 125.9 | 128.9  | 131.9  | 133.8  | 134.8  | 135.7  | 136.7  | 137.6  |
| 77.5°  | 109.4 | 112.4  | 115.4  | 117.4  | 118.5  | 119.5  | 120.5  | 121.5  |
| 80°    | 98.7  | 101.8  | 105.0  | 107.0  | 107.9  | 108.8  | 109.6  | 110.4  |
| 82.5°  | 88.1  | 91.4   | 94.6   | 96.7   | 97.7   | 98.6   | 99.6   | 100.5  |
| 85°    | 73.3  | 76.4   | 79.7   | 81.8   | 82.8   | 83.9   | 84.9   | 86.0   |
| 87.5°  | 63.6  | 66.9   | 70.1   | 72.1   | 73.2   | 74.2   | 75.0   | 75.9   |
| 90°    | 67.7  | 71.6   | 75.4   | 77.4   | 79.1   | 80.7   | 80.8   | 81.6   |
| 92.5°  | 206.1 | 170.8  | 149.9  | 136.0  | 127.5  | 124.1  | 122.3  | 123.1  |
| 95°    | 632.5 | 512.9  | 410.0  | 335.3  | 297.5  | 274.1  | 260.7  | 251.5  |
| 97.5°  | 908.7 | 866.0  | 791.5  | 710.9  | 655.2  | 608.5  | 585.7  | 570.3  |
| 100°   | 994.4 | 1013.0 | 977.2  | 920.6  | 852.6  | 805.2  | 782.2  | 776.7  |
| 102.5° | 987.8 | 1068.9 | 1083.0 | 1060.5 | 1019.2 | 985.0  | 960.9  | 956.7  |
| 105°   | 921.3 | 1060.6 | 1141.3 | 1175.5 | 1177.9 | 1172.5 | 1162.3 | 1158.3 |
| 107.5° | 828.2 | 976.2  | 1088.9 | 1161.1 | 1200.8 | 1219.6 | 1228.3 | 1231.1 |
| 110°   | 772.0 | 911.1  | 1028.0 | 1116.5 | 1173.5 | 1207.5 | 1222.5 | 1230.4 |





TEST NUMBER: P332513-840

CATALOG NUMBER: S124DIP-S350D810U840-4F0-1E-UDD-D4

**CANDELA DISTRIBUTION (continued):**

|        | 55°   | 60°   | 65°   | 70°    | 75°    | 80°    | 85°    | 90°    |
|--------|-------|-------|-------|--------|--------|--------|--------|--------|
| 112.5° | 730.1 | 853.3 | 963.8 | 1052.3 | 1116.8 | 1157.8 | 1178.5 | 1190.9 |
| 115°   | 687.3 | 786.8 | 881.5 | 958.8  | 1021.9 | 1070.1 | 1096.1 | 1103.2 |
| 117.5° | 664.6 | 747.2 | 822.0 | 887.9  | 941.9  | 982.5  | 1009.0 | 1014.7 |
| 120°   | 653.7 | 729.2 | 794.5 | 852.0  | 897.9  | 933.5  | 954.9  | 964.4  |
| 122.5° | 644.2 | 717.2 | 776.8 | 827.4  | 866.2  | 896.7  | 914.7  | 924.2  |
| 125°   | 628.6 | 698.5 | 755.1 | 799.8  | 832.0  | 855.6  | 871.2  | 876.6  |
| 127.5° | 609.8 | 676.5 | 732.8 | 775.3  | 807.8  | 828.9  | 842.2  | 847.7  |
| 130°   | 595.2 | 659.4 | 715.1 | 758.2  | 791.2  | 811.6  | 824.9  | 830.2  |
| 132.5° | 580.2 | 640.7 | 694.9 | 738.0  | 770.3  | 793.2  | 805.9  | 811.2  |
| 135°   | 558.9 | 611.9 | 661.8 | 702.4  | 734.7  | 757.4  | 770.6  | 776.0  |
| 137.5° | 539.8 | 584.8 | 626.9 | 663.7  | 693.7  | 716.0  | 727.0  | 733.2  |
| 140°   | 528.9 | 567.3 | 604.2 | 638.3  | 666.5  | 684.4  | 696.0  | 702.9  |
| 142.5° | 518.9 | 552.8 | 584.5 | 614.0  | 638.9  | 655.5  | 665.8  | 670.7  |
| 145°   | 505.0 | 532.5 | 556.8 | 579.6  | 599.7  | 613.5  | 621.9  | 626.2  |
| 147.5° | 493.7 | 515.1 | 534.1 | 551.7  | 566.6  | 578.5  | 584.8  | 586.5  |
| 150°   | 487.2 | 505.3 | 521.2 | 535.3  | 548.1  | 558.3  | 563.0  | 563.8  |
| 152.5° | 480.3 | 495.8 | 510.4 | 522.1  | 532.8  | 541.2  | 544.0  | 544.8  |
| 155°   | 469.8 | 482.5 | 494.3 | 503.8  | 511.7  | 518.0  | 520.4  | 520.4  |
| 157.5° | 458.6 | 469.2 | 479.2 | 486.8  | 492.7  | 497.5  | 498.9  | 498.9  |
| 160°   | 451.7 | 460.4 | 469.1 | 475.3  | 480.1  | 484.8  | 485.6  | 485.6  |
| 162.5° | 444.7 | 452.1 | 459.0 | 464.6  | 468.1  | 472.8  | 473.6  | 473.0  |
| 165°   | 435.0 | 439.8 | 445.4 | 449.3  | 452.4  | 455.7  | 454.8  | 454.0  |
| 167.5° | 425.8 | 429.4 | 433.8 | 436.2  | 437.8  | 439.8  | 439.7  | 439.0  |
| 170°   | 420.1 | 422.4 | 425.7 | 428.0  | 429.6  | 430.3  | 429.6  | 429.6  |
| 172.5° | 415.1 | 416.8 | 418.7 | 420.4  | 421.3  | 422.1  | 421.3  | 420.1  |
| 175°   | 408.3 | 409.0 | 410.6 | 410.6  | 410.6  | 412.2  | 410.6  | 409.0  |
| 177.5° | 403.8 | 404.5 | 404.5 | 405.1  | 404.5  | 405.1  | 403.8  | 402.5  |
| 180°   | 401.9 | 401.9 | 401.9 | 401.9  | 401.9  | 401.9  | 401.9  | 401.9  |

(END OF REPORT)