

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: P333915

Luminaire Tested: **S123DS-S340D830-4F0-1E-UDD-A**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P333915  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-20)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: S123DS-S340D830-4F0-1E-UDD-A  
Description: DEFINE 3 DIRECT LED LUMINAIRE, ASYMMETRIC DIFFUSER  
PENDANT/SURFACE/WALL MOUNT, 340 LUMENS PER FOOT  
Light Source: 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1281.8 lumens  
Efficiency: N/A  
Efficacy: 110.5 lumens/watt  
Spacing Criteria (0/90/45): 1.37 / 1.23 / 1.5  
Luminous Opening: Rectangular (W 4' x L: 0.5' x H: 0')  
CIE Type: Direct

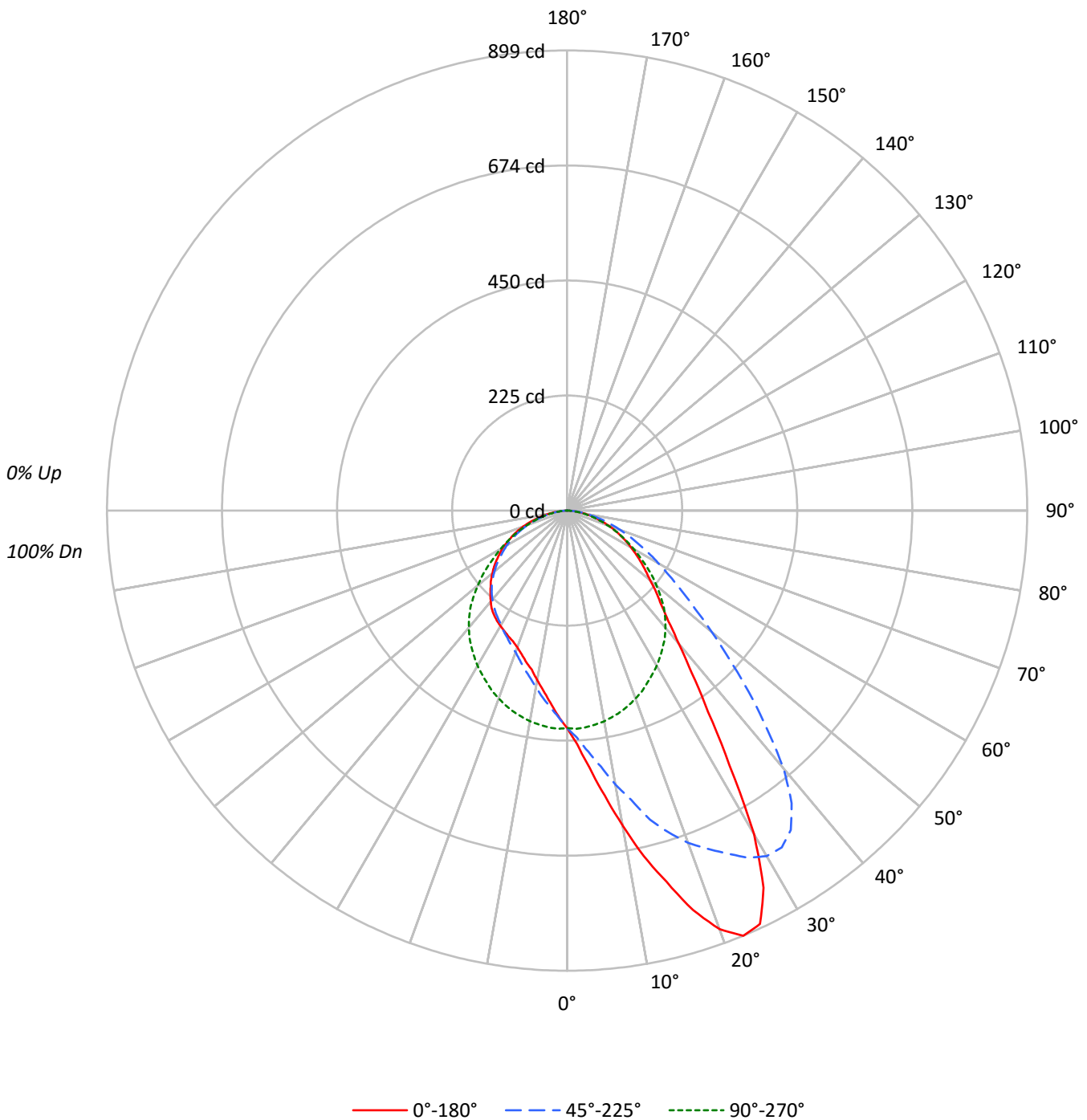
Input Watts (W): 11.6  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P333915

CATALOG NUMBER: S123DS-S340D830-4F0-1E-UDD-A

### Luminous Intensity Polar Plot





TEST NUMBER: P333915

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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   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 |  | 106 | 106 | 106 |  | 102 | 102 | 102 | 100 |
| 1   | 110 | 105 | 101 | 98  | 107 | 103 | 99  | 96  | 99  | 96  | 93  |  | 95  | 92  | 90  |  | 91  | 89  | 87  | 85  |
| 2   | 100 | 93  | 86  | 81  | 98  | 91  | 85  | 80  | 87  | 82  | 78  |  | 84  | 80  | 76  |  | 81  | 78  | 74  | 72  |
| 3   | 92  | 82  | 74  | 68  | 89  | 80  | 73  | 67  | 77  | 71  | 66  |  | 75  | 69  | 65  |  | 72  | 68  | 64  | 62  |
| 4   | 84  | 73  | 65  | 58  | 82  | 72  | 64  | 58  | 69  | 62  | 57  |  | 67  | 61  | 56  |  | 65  | 60  | 56  | 53  |
| 5   | 78  | 66  | 57  | 51  | 76  | 64  | 56  | 50  | 62  | 55  | 50  |  | 60  | 54  | 49  |  | 59  | 53  | 49  | 47  |
| 6   | 72  | 59  | 51  | 44  | 70  | 58  | 50  | 44  | 56  | 49  | 44  |  | 55  | 48  | 43  |  | 53  | 48  | 43  | 41  |
| 7   | 67  | 54  | 45  | 39  | 65  | 53  | 45  | 39  | 52  | 44  | 39  |  | 50  | 44  | 39  |  | 49  | 43  | 38  | 36  |
| 8   | 62  | 49  | 41  | 35  | 61  | 49  | 41  | 35  | 47  | 40  | 35  |  | 46  | 39  | 35  |  | 45  | 39  | 35  | 33  |
| 9   | 58  | 45  | 37  | 32  | 57  | 45  | 37  | 32  | 43  | 36  | 32  |  | 42  | 36  | 31  |  | 41  | 36  | 31  | 29  |
| 10  | 55  | 42  | 34  | 29  | 53  | 41  | 34  | 29  | 40  | 33  | 29  |  | 39  | 33  | 29  |  | 38  | 33  | 28  | 27  |

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

|     | 0°   | 90°  | 180° |
|-----|------|------|------|
| 0°  | 2286 | 2286 | 2286 |
| 5°  | 2726 | 2296 | 2034 |
| 10° | 3412 | 2284 | 1837 |
| 15° | 4184 | 2265 | 1711 |
| 20° | 4985 | 2237 | 1629 |
| 25° | 5293 | 2202 | 1610 |
| 30° | 4537 | 2176 | 1619 |
| 35° | 3155 | 2140 | 1636 |
| 40° | 2377 | 2098 | 1631 |
| 45° | 1974 | 2034 | 1610 |
| 50° | 1768 | 1906 | 1595 |
| 55° | 1652 | 1767 | 1575 |
| 60° | 1550 | 1621 | 1560 |
| 65° | 1457 | 1477 | 1509 |
| 70° | 1366 | 1314 | 1438 |
| 75° | 1223 | 1150 | 1318 |
| 80° | 1072 | 945  | 1134 |
| 85° | 840  | 685  | 760  |



TEST NUMBER: P333915

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 41.8   | 3.3       |
| 10°-20°   | 134.2  | 10.5      |
| 20°-30°   | 225.7  | 17.6      |
| 30°-40°   | 255.1  | 19.9      |
| 40°-50°   | 228.5  | 17.8      |
| 50°-60°   | 184.4  | 14.4      |
| 60°-70°   | 128.5  | 10.0      |
| 70°-80°   | 67.5   | 5.3       |
| 80°-90°   | 16.2   | 1.3       |
| 90°-100°  | 0.0    | 0.0       |
| 100°-110° | 0.0    | 0.0       |
| 110°-120° | 0.0    | 0.0       |
| 120°-130° | 0.0    | 0.0       |
| 130°-140° | 0.0    | 0.0       |
| 140°-150° | 0.0    | 0.0       |
| 150°-160° | 0.0    | 0.0       |
| 160°-170° | 0.0    | 0.0       |
| 170°-180° | 0.0    | 0.0       |
| 0°-30°    | 401.6  | 31.3      |
| 0°-40°    | 656.8  | 51.2      |
| 0°-60°    | 1069.7 | 83.5      |
| 0°-90°    | 1281.8 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1281.8 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0°  | 425 | 425 | 425 | 425  | 425  |      |
| 5°  | 504 | 473 | 425 | 385  | 376  | 52   |
| 15° | 751 | 625 | 407 | 321  | 307  | 217  |
| 25° | 891 | 739 | 371 | 276  | 271  | 394  |
| 35° | 480 | 762 | 326 | 243  | 249  | 310  |
| 45° | 259 | 502 | 267 | 208  | 212  | 204  |
| 55° | 176 | 273 | 188 | 161  | 168  | 158  |
| 65° | 114 | 153 | 116 | 109  | 118  | 114  |
| 75° | 59  | 72  | 55  | 55   | 63   | 63   |
| 85° | 14  | 16  | 11  | 11   | 12   | 16   |
| 90° | 0   | 0   | 0   | 0    | 0    |      |



TEST NUMBER: P333915

CATALOG NUMBER: S123DS-S340D830-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (FULL):**

|       | 0°    | 5°    | 10°   | 15°   | 20°   | 25°   | 30°   | 35°   | 40°   | 45°   | 50°   |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 424.7 | 424.7 | 424.7 | 424.7 | 424.7 | 424.7 | 424.7 | 424.7 | 424.7 | 424.7 | 424.7 |
| 2.5°  | 457.2 | 456.8 | 455.8 | 456.6 | 454.9 | 452.7 | 452.5 | 450.4 | 444.4 | 444.0 | 442.4 |
| 5°    | 504.5 | 502.9 | 502.7 | 502.5 | 499.6 | 495.7 | 488.3 | 487.7 | 477.8 | 472.8 | 466.9 |
| 7.5°  | 561.7 | 561.1 | 559.5 | 557.6 | 547.9 | 543.2 | 536.2 | 527.2 | 515.6 | 504.5 | 497.5 |
| 10°   | 624.3 | 631.1 | 622.6 | 616.9 | 611.5 | 601.4 | 589.7 | 575.1 | 560.5 | 543.4 | 530.4 |
| 12.5° | 691.4 | 693.8 | 693.8 | 688.5 | 679.4 | 662.8 | 639.7 | 623.2 | 610.1 | 578.8 | 567.7 |
| 15°   | 751.0 | 763.6 | 755.5 | 737.0 | 737.4 | 722.8 | 695.7 | 665.8 | 650.0 | 625.1 | 591.1 |
| 17.5° | 818.5 | 820.8 | 818.3 | 801.0 | 792.6 | 771.4 | 746.9 | 719.1 | 689.3 | 659.0 | 623.9 |
| 20°   | 870.4 | 869.1 | 861.9 | 853.9 | 836.2 | 820.6 | 793.2 | 761.3 | 720.2 | 690.5 | 651.2 |
| 22.5° | 899.2 | 896.9 | 894.4 | 888.1 | 874.1 | 857.0 | 833.1 | 797.5 | 758.8 | 715.2 | 668.3 |
| 25°   | 891.4 | 894.0 | 894.4 | 892.6 | 887.4 | 877.4 | 858.0 | 830.2 | 791.1 | 738.7 | 691.4 |
| 27.5° | 830.9 | 837.6 | 846.3 | 852.1 | 861.3 | 867.5 | 861.3 | 843.8 | 811.7 | 764.8 | 706.6 |
| 30°   | 730.0 | 721.8 | 742.2 | 767.9 | 785.4 | 816.2 | 833.5 | 834.6 | 818.3 | 779.4 | 723.0 |
| 32.5° | 590.1 | 603.5 | 609.7 | 642.8 | 686.2 | 721.8 | 760.5 | 794.8 | 802.9 | 780.2 | 732.7 |
| 35°   | 480.2 | 491.6 | 508.0 | 524.5 | 565.6 | 601.0 | 661.5 | 714.2 | 756.2 | 761.7 | 731.5 |
| 37.5° | 399.2 | 405.8 | 415.8 | 433.3 | 461.5 | 505.3 | 553.3 | 621.8 | 679.6 | 720.4 | 716.2 |
| 40°   | 338.3 | 339.9 | 351.6 | 364.2 | 386.0 | 420.6 | 462.8 | 521.6 | 594.4 | 657.6 | 683.9 |
| 42.5° | 292.6 | 296.7 | 300.0 | 311.9 | 328.2 | 352.1 | 390.5 | 436.6 | 501.8 | 577.0 | 634.8 |
| 45°   | 259.3 | 263.4 | 266.5 | 274.5 | 286.8 | 304.3 | 331.7 | 376.1 | 427.0 | 502.1 | 571.4 |
| 47.5° | 236.2 | 235.8 | 238.5 | 244.9 | 253.7 | 267.7 | 287.9 | 317.5 | 366.3 | 429.0 | 501.6 |
| 50°   | 211.1 | 214.4 | 215.2 | 220.0 | 226.5 | 236.2 | 252.3 | 276.5 | 314.8 | 368.3 | 433.7 |
| 52.5° | 193.4 | 193.8 | 196.5 | 199.6 | 205.1 | 212.1 | 225.5 | 243.2 | 271.2 | 314.8 | 373.7 |
| 55°   | 176.1 | 176.1 | 178.4 | 181.1 | 184.4 | 191.2 | 200.4 | 214.4 | 237.2 | 272.6 | 322.4 |
| 57.5° | 160.1 | 160.9 | 163.0 | 163.6 | 166.5 | 171.2 | 179.2 | 190.3 | 207.8 | 236.4 | 277.6 |
| 60°   | 144.0 | 145.9 | 145.7 | 147.3 | 149.8 | 153.3 | 159.9 | 168.5 | 183.7 | 205.6 | 238.9 |
| 62.5° | 130.0 | 129.4 | 129.4 | 131.5 | 133.9 | 137.2 | 140.9 | 148.1 | 160.5 | 179.2 | 206.4 |
| 65°   | 114.4 | 114.0 | 115.4 | 116.7 | 117.5 | 120.0 | 123.3 | 129.8 | 138.5 | 152.9 | 174.9 |
| 67.5° | 100.8 | 99.6  | 100.6 | 101.0 | 102.5 | 104.5 | 107.8 | 111.9 | 118.9 | 131.1 | 148.8 |
| 70°   | 86.8  | 85.8  | 85.6  | 86.0  | 87.2  | 88.7  | 90.9  | 94.9  | 101.2 | 110.5 | 122.6 |
| 72.5° | 72.4  | 71.8  | 71.8  | 72.8  | 73.3  | 74.1  | 75.5  | 79.0  | 83.7  | 90.1  | 101.2 |
| 75°   | 58.8  | 58.8  | 58.8  | 59.1  | 59.7  | 60.5  | 61.7  | 63.6  | 67.5  | 72.4  | 80.0  |
| 77.5° | 46.5  | 46.7  | 46.3  | 46.1  | 47.1  | 47.5  | 47.7  | 49.8  | 52.1  | 55.8  | 61.7  |
| 80°   | 34.6  | 33.5  | 34.0  | 34.6  | 35.0  | 35.2  | 35.8  | 36.2  | 38.1  | 39.9  | 43.8  |
| 82.5° | 23.5  | 22.6  | 22.6  | 23.7  | 23.7  | 23.9  | 24.5  | 25.1  | 25.5  | 27.2  | 28.8  |
| 85°   | 13.6  | 13.6  | 13.8  | 13.8  | 14.0  | 13.8  | 14.4  | 14.6  | 14.6  | 15.6  | 16.9  |
| 87.5° | 6.2   | 5.8   | 6.0   | 6.2   | 6.0   | 6.2   | 6.4   | 6.6   | 6.8   | 7.0   | 7.2   |
| 90°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |



TEST NUMBER: P333915

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**CANDELA DISTRIBUTION (continued):**

|       | 55°   | 60°   | 65°   | 70°   | 75°   | 80°   | 85°   | 90°   | 95°   | 100°  | 105°  |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 424.7 | 424.7 | 424.7 | 424.7 | 424.7 | 424.7 | 424.7 | 424.7 | 424.7 | 424.7 | 424.7 |
| 2.5°  | 441.1 | 439.5 | 437.9 | 435.0 | 432.5 | 429.0 | 428.0 | 426.7 | 423.0 | 419.7 | 417.3 |
| 5°    | 464.6 | 459.7 | 452.5 | 445.9 | 440.5 | 433.3 | 429.2 | 424.9 | 418.7 | 413.2 | 408.6 |
| 7.5°  | 487.0 | 478.4 | 468.3 | 457.4 | 446.9 | 436.8 | 428.8 | 421.6 | 413.6 | 405.8 | 399.8 |
| 10°   | 514.8 | 500.8 | 485.2 | 468.3 | 453.9 | 439.9 | 428.2 | 417.9 | 406.8 | 397.1 | 389.1 |
| 12.5° | 546.5 | 524.1 | 501.0 | 479.6 | 461.9 | 441.1 | 426.3 | 412.5 | 399.6 | 387.4 | 378.2 |
| 15°   | 570.2 | 543.8 | 518.3 | 490.1 | 464.2 | 439.9 | 423.0 | 406.6 | 392.0 | 380.0 | 368.5 |
| 17.5° | 593.6 | 564.8 | 532.3 | 498.4 | 467.9 | 439.9 | 416.9 | 399.2 | 381.3 | 366.9 | 355.8 |
| 20°   | 613.0 | 579.0 | 540.9 | 505.3 | 470.8 | 438.7 | 412.8 | 390.5 | 370.8 | 355.3 | 342.4 |
| 22.5° | 629.6 | 588.5 | 548.8 | 510.1 | 470.6 | 435.4 | 405.1 | 382.1 | 360.3 | 345.3 | 331.3 |
| 25°   | 640.1 | 592.6 | 553.1 | 508.4 | 465.4 | 429.6 | 396.7 | 370.8 | 349.4 | 331.7 | 317.5 |
| 27.5° | 650.0 | 592.0 | 547.3 | 499.2 | 459.3 | 423.7 | 388.3 | 360.5 | 338.1 | 318.9 | 304.3 |
| 30°   | 659.9 | 593.0 | 537.2 | 489.7 | 449.4 | 412.3 | 378.2 | 350.2 | 326.3 | 306.8 | 293.2 |
| 32.5° | 666.0 | 592.4 | 528.0 | 476.5 | 433.7 | 402.1 | 367.3 | 338.1 | 313.4 | 294.2 | 281.3 |
| 35°   | 667.7 | 588.9 | 517.1 | 457.4 | 416.7 | 384.8 | 355.8 | 325.7 | 300.0 | 282.1 | 267.3 |
| 37.5° | 664.2 | 582.5 | 505.1 | 440.1 | 396.1 | 364.4 | 339.1 | 313.4 | 288.7 | 268.7 | 255.8 |
| 40°   | 652.9 | 576.3 | 490.7 | 421.6 | 374.7 | 344.4 | 323.7 | 298.6 | 274.3 | 255.6 | 243.6 |
| 42.5° | 631.3 | 563.8 | 474.9 | 401.0 | 352.5 | 322.2 | 303.5 | 283.5 | 260.9 | 243.6 | 231.7 |
| 45°   | 593.4 | 544.4 | 459.0 | 380.4 | 330.7 | 299.4 | 282.5 | 267.3 | 246.5 | 229.4 | 219.1 |
| 47.5° | 545.1 | 518.3 | 436.2 | 358.8 | 307.8 | 277.6 | 259.9 | 247.3 | 231.1 | 217.3 | 207.2 |
| 50°   | 494.2 | 484.6 | 413.0 | 336.6 | 285.0 | 255.6 | 238.7 | 227.6 | 216.7 | 202.9 | 193.8 |
| 52.5° | 435.6 | 445.5 | 385.8 | 313.6 | 261.7 | 232.9 | 217.3 | 209.1 | 199.4 | 188.7 | 181.1 |
| 55°   | 381.3 | 402.9 | 353.7 | 287.2 | 238.7 | 211.1 | 196.1 | 188.3 | 182.5 | 174.1 | 167.3 |
| 57.5° | 328.6 | 356.2 | 320.4 | 260.7 | 216.0 | 192.0 | 177.2 | 168.3 | 164.6 | 159.9 | 154.3 |
| 60°   | 282.7 | 309.9 | 284.2 | 233.9 | 193.2 | 170.6 | 157.8 | 150.6 | 146.9 | 143.8 | 139.3 |
| 62.5° | 241.8 | 269.3 | 248.8 | 206.8 | 170.8 | 150.2 | 139.5 | 132.5 | 129.8 | 128.6 | 124.9 |
| 65°   | 204.9 | 228.6 | 214.2 | 178.4 | 149.6 | 131.1 | 121.0 | 116.0 | 113.4 | 112.8 | 110.3 |
| 67.5° | 173.0 | 191.4 | 180.2 | 153.3 | 129.8 | 113.0 | 104.1 | 99.8  | 97.5  | 97.3  | 95.3  |
| 70°   | 141.8 | 158.6 | 150.6 | 126.7 | 107.2 | 94.6  | 87.2  | 83.5  | 82.3  | 82.1  | 81.1  |
| 72.5° | 117.5 | 128.0 | 122.0 | 103.1 | 89.1  | 78.0  | 73.0  | 69.1  | 67.7  | 68.1  | 67.5  |
| 75°   | 90.5  | 99.4  | 95.7  | 81.9  | 69.8  | 62.3  | 57.8  | 55.3  | 54.1  | 54.7  | 53.9  |
| 77.5° | 69.1  | 75.3  | 71.6  | 61.1  | 53.3  | 47.7  | 44.2  | 42.6  | 41.4  | 41.4  | 40.9  |
| 80°   | 49.2  | 52.5  | 50.6  | 44.9  | 38.7  | 34.2  | 31.5  | 30.5  | 29.8  | 29.6  | 29.4  |
| 82.5° | 31.5  | 34.2  | 31.9  | 28.4  | 24.7  | 22.4  | 21.2  | 19.8  | 19.3  | 19.5  | 19.3  |
| 85°   | 17.7  | 18.7  | 17.9  | 15.4  | 13.8  | 12.6  | 11.7  | 11.1  | 10.7  | 10.9  | 10.5  |
| 87.5° | 7.6   | 7.8   | 7.2   | 6.4   | 6.0   | 5.3   | 5.3   | 4.9   | 4.5   | 4.5   | 4.3   |
| 90°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |



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**CANDELA DISTRIBUTION (continued):**

|       | 110°  | 115°  | 120°  | 125°  | 130°  | 135°  | 140°  | 145°  | 150°  | 155°  | 160°  |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 424.7 | 424.7 | 424.7 | 424.7 | 424.7 | 424.7 | 424.7 | 424.7 | 424.7 | 424.7 | 424.7 |
| 2.5°  | 415.8 | 414.4 | 412.3 | 409.3 | 406.8 | 402.9 | 402.9 | 403.5 | 403.5 | 403.3 | 402.9 |
| 5°    | 404.9 | 401.8 | 398.1 | 393.8 | 389.3 | 384.8 | 383.9 | 382.3 | 381.1 | 380.2 | 379.2 |
| 7.5°  | 393.8 | 388.7 | 383.5 | 377.6 | 372.4 | 368.1 | 365.0 | 362.3 | 360.7 | 358.8 | 357.4 |
| 10°   | 382.5 | 375.7 | 369.3 | 363.0 | 356.0 | 350.4 | 346.9 | 344.4 | 342.6 | 340.9 | 340.1 |
| 12.5° | 369.1 | 361.1 | 353.9 | 347.9 | 340.1 | 334.4 | 331.1 | 330.2 | 328.0 | 324.1 | 322.0 |
| 15°   | 356.2 | 349.0 | 340.5 | 331.3 | 327.6 | 320.6 | 316.7 | 314.8 | 313.6 | 310.9 | 310.1 |
| 17.5° | 345.5 | 335.8 | 326.1 | 319.3 | 312.5 | 307.0 | 304.7 | 302.3 | 300.6 | 298.1 | 297.5 |
| 20°   | 332.1 | 323.7 | 315.0 | 307.6 | 300.4 | 294.2 | 292.4 | 290.7 | 289.1 | 288.1 | 287.2 |
| 22.5° | 318.5 | 310.1 | 303.3 | 296.5 | 288.7 | 285.2 | 283.1 | 281.3 | 280.2 | 279.6 | 278.8 |
| 25°   | 306.0 | 298.6 | 290.5 | 284.4 | 278.2 | 275.5 | 274.3 | 273.2 | 272.4 | 271.4 | 271.2 |
| 27.5° | 294.9 | 286.6 | 279.8 | 273.9 | 269.3 | 267.1 | 265.6 | 265.0 | 265.0 | 265.4 | 265.6 |
| 30°   | 282.1 | 274.7 | 269.3 | 264.4 | 260.3 | 258.2 | 258.0 | 258.0 | 258.8 | 259.1 | 259.5 |
| 32.5° | 270.4 | 264.6 | 259.3 | 254.5 | 251.6 | 250.4 | 251.4 | 251.4 | 252.1 | 252.7 | 253.5 |
| 35°   | 259.1 | 253.7 | 249.6 | 245.5 | 242.8 | 243.4 | 243.8 | 244.2 | 245.3 | 246.5 | 247.3 |
| 37.5° | 248.4 | 243.4 | 239.1 | 235.8 | 234.2 | 235.4 | 236.4 | 237.2 | 238.5 | 239.5 | 240.3 |
| 40°   | 236.6 | 233.1 | 229.0 | 226.1 | 226.5 | 227.2 | 228.0 | 229.0 | 230.0 | 230.7 | 231.5 |
| 42.5° | 225.7 | 222.0 | 219.1 | 216.9 | 217.5 | 218.3 | 218.7 | 219.1 | 220.4 | 221.6 | 222.0 |
| 45°   | 214.6 | 211.7 | 208.8 | 207.4 | 207.8 | 208.2 | 208.6 | 209.3 | 210.3 | 211.1 | 211.3 |
| 47.5° | 202.1 | 200.0 | 198.1 | 196.5 | 197.3 | 197.1 | 197.7 | 199.0 | 199.4 | 199.8 | 201.0 |
| 50°   | 190.1 | 188.3 | 186.0 | 185.6 | 185.6 | 185.6 | 185.8 | 187.4 | 187.4 | 188.3 | 189.1 |
| 52.5° | 177.0 | 175.9 | 174.7 | 173.9 | 173.5 | 173.5 | 174.5 | 175.1 | 175.5 | 176.7 | 177.6 |
| 55°   | 164.0 | 162.8 | 161.5 | 160.9 | 160.5 | 160.9 | 162.6 | 163.0 | 164.0 | 164.6 | 165.2 |
| 57.5° | 150.4 | 149.6 | 148.6 | 148.1 | 148.1 | 148.4 | 149.6 | 150.6 | 150.8 | 152.9 | 153.7 |
| 60°   | 137.0 | 135.6 | 134.8 | 134.8 | 134.4 | 136.2 | 135.8 | 137.9 | 138.3 | 139.5 | 140.9 |
| 62.5° | 123.3 | 121.2 | 121.0 | 121.0 | 121.8 | 122.0 | 122.8 | 123.5 | 124.7 | 126.3 | 127.4 |
| 65°   | 108.2 | 107.2 | 108.6 | 108.4 | 108.0 | 109.3 | 109.3 | 110.3 | 111.5 | 113.0 | 115.2 |
| 67.5° | 94.2  | 93.4  | 93.8  | 93.6  | 94.2  | 95.1  | 95.7  | 96.5  | 97.9  | 99.6  | 101.0 |
| 70°   | 80.0  | 80.7  | 79.6  | 80.5  | 81.1  | 81.3  | 81.7  | 82.9  | 84.6  | 85.6  | 87.2  |
| 72.5° | 66.3  | 66.0  | 66.5  | 66.7  | 67.3  | 67.7  | 68.1  | 69.5  | 71.4  | 72.2  | 73.5  |
| 75°   | 53.1  | 52.9  | 53.5  | 53.5  | 54.5  | 54.9  | 55.3  | 56.0  | 57.6  | 58.8  | 59.9  |
| 77.5° | 41.2  | 41.4  | 41.2  | 42.0  | 41.6  | 41.8  | 43.0  | 43.6  | 43.8  | 46.5  | 46.9  |
| 80°   | 29.2  | 29.6  | 29.8  | 30.0  | 30.2  | 29.8  | 31.3  | 31.9  | 31.9  | 33.3  | 34.4  |
| 82.5° | 18.9  | 19.1  | 19.8  | 20.0  | 20.0  | 20.6  | 20.4  | 20.8  | 21.4  | 21.8  | 23.3  |
| 85°   | 10.5  | 11.1  | 11.3  | 11.1  | 11.3  | 10.9  | 11.5  | 11.7  | 11.9  | 11.9  | 11.9  |
| 87.5° | 4.1   | 4.3   | 4.1   | 4.3   | 4.1   | 4.3   | 4.3   | 3.9   | 3.9   | 4.5   | 3.7   |
| 90°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |





TEST NUMBER: P333915

CATALOG NUMBER: S123DS-S340D830-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

|       | 165°  | 170°  | 175°  | 180°  |
|-------|-------|-------|-------|-------|
| 0°    | 424.7 | 424.7 | 424.7 | 424.7 |
| 2.5°  | 401.4 | 401.2 | 402.7 | 401.6 |
| 5°    | 378.0 | 378.6 | 376.5 | 376.5 |
| 7.5°  | 356.8 | 356.0 | 356.2 | 354.7 |
| 10°   | 337.7 | 336.4 | 336.0 | 336.2 |
| 12.5° | 321.8 | 321.8 | 318.5 | 318.5 |
| 15°   | 310.1 | 306.2 | 305.8 | 307.0 |
| 17.5° | 297.1 | 294.9 | 295.1 | 294.6 |
| 20°   | 287.2 | 286.0 | 285.8 | 284.4 |
| 22.5° | 278.2 | 278.0 | 278.2 | 276.5 |
| 25°   | 271.0 | 272.0 | 271.2 | 271.2 |
| 27.5° | 266.0 | 266.0 | 265.4 | 265.4 |
| 30°   | 260.3 | 260.1 | 260.5 | 260.5 |
| 32.5° | 254.5 | 254.9 | 254.9 | 255.1 |
| 35°   | 248.6 | 248.8 | 249.4 | 249.0 |
| 37.5° | 240.7 | 241.8 | 241.6 | 242.0 |
| 40°   | 231.7 | 232.3 | 232.1 | 232.1 |
| 42.5° | 222.4 | 222.8 | 222.2 | 221.8 |
| 45°   | 212.1 | 211.7 | 212.3 | 211.5 |
| 47.5° | 200.8 | 201.0 | 201.2 | 202.1 |
| 50°   | 189.5 | 190.7 | 190.7 | 190.5 |
| 52.5° | 178.4 | 178.8 | 179.8 | 179.8 |
| 55°   | 166.9 | 167.3 | 167.7 | 167.9 |
| 57.5° | 155.1 | 154.9 | 155.8 | 156.0 |
| 60°   | 142.6 | 142.6 | 144.2 | 144.9 |
| 62.5° | 129.2 | 130.0 | 131.7 | 130.5 |
| 65°   | 116.3 | 117.9 | 117.7 | 118.5 |
| 67.5° | 102.7 | 103.7 | 105.3 | 105.3 |
| 70°   | 88.9  | 89.9  | 90.7  | 91.4  |
| 72.5° | 75.5  | 75.9  | 78.2  | 77.0  |
| 75°   | 61.3  | 62.8  | 64.0  | 63.4  |
| 77.5° | 47.7  | 49.6  | 50.0  | 49.4  |
| 80°   | 35.8  | 35.6  | 36.8  | 36.6  |
| 82.5° | 23.9  | 23.7  | 24.1  | 24.3  |
| 85°   | 12.8  | 13.4  | 12.6  | 12.3  |
| 87.5° | 3.7   | 3.7   | 3.5   | 3.3   |
| 90°   | 0.0   | 0.0   | 0.0   | 0.0   |

(END OF REPORT)