

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: P243439

Luminaire Tested: **S123RDR-H340D930-X4F0-XX-UDD-A-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P243439
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-69)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S123RDR-H340D930-X4F0-XX-UDD-A-W
Description: DEFINE 3 REGRESSED DIRECT RECESSED WITH ASYMMETRIC FLUSH DIFFUSER.
HIGH PERFORMANCE LIGHT ENGINE
Light Source: (184) 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1029.8 lumens
Efficiency: N/A
Efficacy: 91.9 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.22 / 1.4
Luminous Opening: Rectangular (W 3.88' x L: 0.23' x H: 0')
CIE Type: Direct

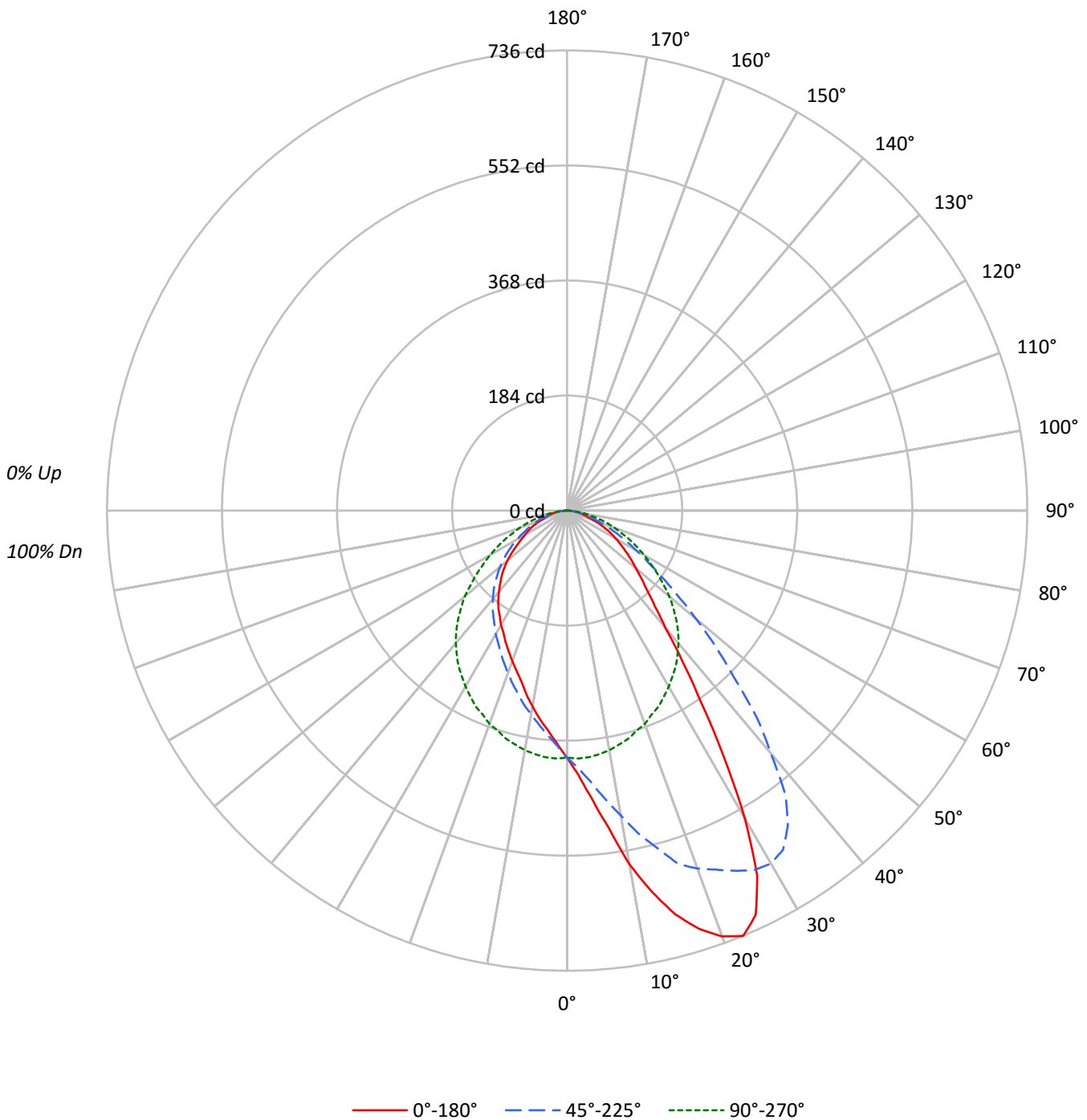
Input Watts (W): 11.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P243439

CATALOG NUMBER: S123RDR-H340D930-X4F0-XX-UDD-A-W

Luminous Intensity Polar Plot





TEST NUMBER: P243439

CATALOG NUMBER: S123RDR-H340D930-X4F0-XX-UDD-A-W

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 | 106 | 102 | 99 | 107 | 104 | 100 | 97 | 99 | 97 | 94 | 96 | 93 | 91 | 92 | 90 | 89 | 87 |
| 2 | 101 | 94 | 88 | 83 | 99 | 92 | 86 | 82 | 89 | 84 | 80 | 85 | 81 | 78 | 82 | 79 | 76 | 74 |
| 3 | 93 | 84 | 76 | 70 | 91 | 82 | 75 | 70 | 79 | 73 | 68 | 76 | 71 | 67 | 74 | 70 | 66 | 64 |
| 4 | 86 | 75 | 67 | 61 | 84 | 74 | 66 | 60 | 71 | 65 | 59 | 69 | 63 | 59 | 67 | 62 | 58 | 56 |
| 5 | 79 | 68 | 59 | 53 | 77 | 66 | 59 | 53 | 64 | 57 | 52 | 62 | 56 | 52 | 61 | 55 | 51 | 49 |
| 6 | 74 | 61 | 53 | 47 | 72 | 60 | 52 | 47 | 59 | 52 | 46 | 57 | 51 | 46 | 55 | 50 | 46 | 44 |
| 7 | 69 | 56 | 48 | 42 | 67 | 55 | 47 | 42 | 54 | 47 | 41 | 52 | 46 | 41 | 51 | 45 | 41 | 39 |
| 8 | 64 | 51 | 43 | 38 | 62 | 51 | 43 | 37 | 49 | 42 | 37 | 48 | 42 | 37 | 47 | 41 | 37 | 35 |
| 9 | 60 | 47 | 39 | 34 | 59 | 47 | 39 | 34 | 45 | 39 | 34 | 44 | 38 | 34 | 43 | 38 | 33 | 32 |
| 10 | 56 | 44 | 36 | 31 | 55 | 43 | 36 | 31 | 42 | 35 | 31 | 41 | 35 | 31 | 40 | 35 | 31 | 29 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° |
|-----|------|------|------|
| 0° | 4790 | 4790 | 4790 |
| 5° | 5648 | 4817 | 4290 |
| 10° | 7070 | 4789 | 3915 |
| 15° | 8390 | 4741 | 3546 |
| 20° | 9351 | 4684 | 3302 |
| 25° | 9545 | 4626 | 3108 |
| 30° | 7954 | 4547 | 2957 |
| 35° | 5494 | 4485 | 2834 |
| 40° | 3861 | 4383 | 2684 |
| 45° | 3101 | 4227 | 2539 |
| 50° | 2702 | 4026 | 2350 |
| 55° | 2424 | 3726 | 2092 |
| 60° | 2192 | 3442 | 1896 |
| 65° | 1919 | 3172 | 1773 |
| 70° | 1549 | 2853 | 1499 |
| 75° | 1344 | 2487 | 1471 |
| 80° | 1236 | 2122 | 1480 |
| 85° | 1085 | 1711 | 1279 |



TEST NUMBER: P243439

CATALOG NUMBER: S123RDR-H340D930-X4F0-XX-UDD-A-W

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 38.8 | 3.8 |
| 10°-20° | 122.1 | 11.9 |
| 20°-30° | 195.6 | 19.0 |
| 30°-40° | 212.3 | 20.6 |
| 40°-50° | 181.9 | 17.7 |
| 50°-60° | 137.9 | 13.4 |
| 60°-70° | 88.1 | 8.6 |
| 70°-80° | 42.1 | 4.1 |
| 80°-90° | 11.1 | 1.1 |
| 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° | 356.4 | 34.6 |
| 0°-40° | 568.7 | 55.2 |
| 0°-60° | 888.5 | 86.3 |
| 0°-90° | 1029.8 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 1029.8 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0° | 395 | 395 | 395 | 395 | 395 | |
| 5° | 464 | 436 | 396 | 360 | 353 | 48 |
| 15° | 669 | 559 | 378 | 303 | 283 | 190 |
| 25° | 714 | 636 | 346 | 251 | 232 | 317 |
| 35° | 371 | 616 | 303 | 206 | 192 | 239 |
| 45° | 181 | 377 | 247 | 163 | 148 | 143 |
| 55° | 115 | 185 | 176 | 117 | 99 | 103 |
| 65° | 67 | 89 | 111 | 70 | 62 | 66 |
| 75° | 29 | 35 | 53 | 33 | 31 | 31 |
| 85° | 8 | 8 | 12 | 10 | 9 | 9 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P243439

CATALOG NUMBER: S123RDR-H340D930-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 395.2 | 395.2 | 395.2 | 395.2 | 395.2 | 395.2 | 395.2 | 395.2 | 395.2 | 395.2 | 395.2 |
| 2.5° | 423.5 | 424.1 | 423.2 | 423.0 | 422.9 | 420.1 | 419.3 | 417.9 | 413.1 | 411.9 | 411.1 |
| 5° | 464.2 | 462.8 | 464.3 | 461.4 | 458.2 | 456.3 | 453.2 | 446.4 | 440.4 | 435.7 | 432.6 |
| 7.5° | 512.3 | 512.8 | 511.3 | 508.5 | 502.0 | 499.3 | 491.0 | 482.8 | 474.9 | 465.0 | 457.7 |
| 10° | 574.4 | 570.3 | 571.2 | 562.6 | 555.8 | 547.6 | 536.2 | 523.0 | 509.2 | 495.2 | 484.8 |
| 12.5° | 623.9 | 626.8 | 624.7 | 620.6 | 607.5 | 599.5 | 589.1 | 570.0 | 548.1 | 529.4 | 513.5 |
| 15° | 668.6 | 664.7 | 665.2 | 655.3 | 650.5 | 643.2 | 625.9 | 607.0 | 592.8 | 558.9 | 540.1 |
| 17.5° | 701.4 | 701.0 | 700.5 | 692.2 | 686.3 | 671.0 | 653.4 | 634.0 | 616.2 | 592.7 | 569.1 |
| 20° | 724.9 | 727.5 | 726.8 | 720.0 | 709.7 | 694.9 | 684.3 | 660.1 | 630.9 | 609.4 | 580.5 |
| 22.5° | 736.2 | 736.3 | 736.7 | 733.4 | 726.6 | 717.1 | 702.0 | 682.6 | 656.7 | 621.5 | 589.4 |
| 25° | 713.7 | 714.5 | 718.9 | 721.7 | 723.6 | 719.3 | 711.4 | 693.9 | 671.5 | 635.7 | 602.4 |
| 27.5° | 658.4 | 661.1 | 666.0 | 682.4 | 689.1 | 698.3 | 701.5 | 694.5 | 678.0 | 648.1 | 610.2 |
| 30° | 568.3 | 575.9 | 580.7 | 599.3 | 625.4 | 650.0 | 661.6 | 673.0 | 671.5 | 651.7 | 613.3 |
| 32.5° | 465.2 | 470.1 | 484.0 | 503.9 | 524.6 | 560.6 | 600.9 | 628.5 | 644.0 | 643.0 | 615.9 |
| 35° | 371.3 | 378.5 | 390.3 | 405.5 | 434.0 | 471.3 | 516.9 | 560.4 | 599.3 | 615.5 | 605.8 |
| 37.5° | 301.4 | 302.0 | 313.1 | 334.6 | 352.4 | 385.3 | 426.5 | 480.2 | 531.2 | 573.5 | 582.9 |
| 40° | 244.0 | 248.8 | 254.6 | 268.1 | 289.1 | 320.6 | 348.0 | 400.9 | 453.8 | 506.8 | 544.7 |
| 42.5° | 207.9 | 207.9 | 214.3 | 222.9 | 236.9 | 255.8 | 288.4 | 336.3 | 384.0 | 449.1 | 491.8 |
| 45° | 180.9 | 182.6 | 185.5 | 191.0 | 200.9 | 215.5 | 240.8 | 273.4 | 322.0 | 376.8 | 441.0 |
| 47.5° | 161.4 | 161.3 | 163.8 | 167.1 | 174.7 | 185.8 | 200.7 | 227.1 | 263.1 | 322.2 | 378.8 |
| 50° | 143.3 | 144.0 | 145.9 | 148.6 | 153.8 | 161.6 | 171.0 | 191.0 | 221.3 | 268.1 | 327.5 |
| 52.5° | 129.4 | 129.2 | 130.7 | 132.4 | 136.3 | 140.8 | 149.1 | 164.0 | 185.0 | 222.2 | 271.5 |
| 55° | 114.7 | 115.4 | 117.2 | 118.3 | 121.5 | 124.4 | 131.4 | 139.8 | 156.7 | 184.6 | 229.5 |
| 57.5° | 102.0 | 102.9 | 103.9 | 104.9 | 107.2 | 110.1 | 115.9 | 121.0 | 133.3 | 153.4 | 189.2 |
| 60° | 90.4 | 90.1 | 91.3 | 93.0 | 94.2 | 96.8 | 100.0 | 105.3 | 113.8 | 128.2 | 154.4 |
| 62.5° | 78.8 | 79.0 | 79.2 | 80.2 | 82.4 | 84.6 | 87.5 | 91.5 | 96.6 | 107.2 | 125.8 |
| 65° | 66.9 | 67.1 | 67.4 | 68.4 | 70.6 | 72.0 | 75.1 | 78.5 | 82.6 | 88.9 | 101.9 |
| 67.5° | 56.3 | 57.0 | 57.0 | 57.8 | 58.7 | 60.1 | 62.3 | 64.8 | 68.3 | 72.9 | 81.2 |
| 70° | 43.7 | 43.5 | 44.4 | 46.1 | 46.9 | 49.3 | 50.9 | 52.6 | 55.6 | 58.5 | 65.7 |
| 72.5° | 35.2 | 35.2 | 35.2 | 35.8 | 36.0 | 36.5 | 37.5 | 41.1 | 43.5 | 46.4 | 50.3 |
| 75° | 28.7 | 28.8 | 28.8 | 29.0 | 29.2 | 29.7 | 30.0 | 31.1 | 31.7 | 34.8 | 37.2 |
| 77.5° | 22.9 | 23.0 | 23.0 | 23.2 | 23.4 | 23.5 | 24.2 | 24.2 | 24.7 | 25.4 | 26.5 |
| 80° | 17.7 | 17.6 | 17.6 | 17.7 | 17.7 | 18.3 | 18.3 | 18.6 | 18.8 | 19.1 | 19.6 |
| 82.5° | 12.6 | 12.5 | 12.6 | 12.5 | 12.6 | 12.8 | 13.1 | 13.0 | 13.3 | 13.7 | 13.8 |
| 85° | 7.8 | 8.0 | 8.0 | 8.4 | 8.2 | 8.0 | 8.2 | 8.2 | 8.2 | 8.2 | 8.5 |
| 87.5° | 3.4 | 3.8 | 3.8 | 3.6 | 3.8 | 3.8 | 3.4 | 3.8 | 3.8 | 3.8 | 3.9 |
| 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: P243439

CATALOG NUMBER: S123RDR-H340D930-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° | 95° | 100° | 105° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 395.2 | 395.2 | 395.2 | 395.2 | 395.2 | 395.2 | 395.2 | 395.2 | 395.2 | 395.2 | 395.2 |
| 2.5° | 410.6 | 409.9 | 407.3 | 404.9 | 401.4 | 399.8 | 397.8 | 396.9 | 394.2 | 390.4 | 388.7 |
| 5° | 429.7 | 424.6 | 419.6 | 413.7 | 408.7 | 402.9 | 399.7 | 395.9 | 390.1 | 384.8 | 381.1 |
| 7.5° | 450.0 | 442.5 | 433.3 | 423.4 | 414.5 | 406.1 | 399.0 | 393.0 | 385.5 | 378.2 | 372.4 |
| 10° | 472.4 | 459.6 | 444.7 | 432.1 | 419.3 | 407.2 | 398.1 | 389.1 | 379.4 | 370.1 | 363.1 |
| 12.5° | 496.4 | 478.3 | 460.4 | 441.5 | 422.4 | 408.4 | 394.9 | 383.3 | 372.4 | 362.6 | 354.3 |
| 15° | 521.3 | 496.6 | 473.7 | 452.4 | 425.8 | 407.0 | 392.2 | 377.8 | 364.2 | 352.2 | 344.0 |
| 17.5° | 539.1 | 510.8 | 481.9 | 451.7 | 428.8 | 405.6 | 387.2 | 369.1 | 356.5 | 344.2 | 333.1 |
| 20° | 555.5 | 523.4 | 489.1 | 460.9 | 429.0 | 400.7 | 380.5 | 363.1 | 345.6 | 332.4 | 323.0 |
| 22.5° | 562.5 | 533.4 | 498.8 | 459.7 | 427.8 | 398.8 | 372.9 | 353.2 | 337.5 | 323.2 | 310.9 |
| 25° | 563.8 | 531.4 | 495.9 | 458.2 | 423.2 | 391.8 | 365.5 | 345.9 | 325.4 | 310.6 | 301.0 |
| 27.5° | 569.8 | 525.4 | 490.6 | 453.1 | 417.6 | 384.8 | 357.2 | 335.3 | 316.2 | 300.3 | 288.1 |
| 30° | 571.3 | 522.9 | 479.4 | 443.5 | 407.0 | 374.9 | 346.9 | 324.9 | 304.1 | 287.9 | 276.8 |
| 32.5° | 572.0 | 519.5 | 467.6 | 428.3 | 393.5 | 363.3 | 337.7 | 313.8 | 294.0 | 277.0 | 265.5 |
| 35° | 569.6 | 514.7 | 453.4 | 411.1 | 377.6 | 348.0 | 324.2 | 303.1 | 281.1 | 265.0 | 252.9 |
| 37.5° | 560.2 | 507.2 | 445.4 | 391.0 | 359.0 | 331.1 | 310.9 | 290.1 | 269.8 | 252.4 | 239.9 |
| 40° | 542.5 | 496.2 | 430.4 | 374.1 | 337.9 | 312.8 | 294.0 | 277.0 | 256.5 | 239.8 | 227.5 |
| 42.5° | 514.2 | 481.4 | 416.6 | 354.9 | 316.9 | 293.2 | 277.5 | 262.8 | 244.4 | 228.5 | 215.0 |
| 45° | 472.2 | 460.6 | 398.1 | 335.5 | 294.0 | 271.7 | 258.0 | 246.6 | 229.9 | 215.4 | 202.9 |
| 47.5° | 426.8 | 429.4 | 379.5 | 315.7 | 273.2 | 251.9 | 239.9 | 229.9 | 217.2 | 201.7 | 190.3 |
| 50° | 374.4 | 388.4 | 353.4 | 295.7 | 252.4 | 231.4 | 219.6 | 213.5 | 201.7 | 188.7 | 178.0 |
| 52.5° | 326.5 | 348.6 | 327.0 | 273.9 | 231.9 | 211.3 | 200.3 | 194.2 | 186.3 | 175.6 | 164.7 |
| 55° | 276.8 | 304.9 | 289.2 | 250.3 | 211.1 | 190.3 | 181.1 | 176.3 | 169.8 | 161.4 | 151.5 |
| 57.5° | 235.7 | 265.7 | 255.8 | 225.6 | 190.8 | 172.0 | 163.8 | 158.4 | 154.4 | 146.8 | 138.7 |
| 60° | 195.4 | 223.2 | 219.3 | 197.1 | 170.6 | 152.7 | 146.4 | 142.0 | 138.7 | 133.1 | 125.3 |
| 62.5° | 157.7 | 184.6 | 187.0 | 169.6 | 151.0 | 134.8 | 129.0 | 125.9 | 123.4 | 118.9 | 111.8 |
| 65° | 125.1 | 148.8 | 153.8 | 140.4 | 130.4 | 118.1 | 112.5 | 110.6 | 108.7 | 103.6 | 98.1 |
| 67.5° | 98.0 | 116.6 | 123.0 | 115.5 | 108.4 | 101.2 | 96.8 | 94.2 | 92.8 | 89.8 | 86.0 |
| 70° | 74.9 | 91.0 | 96.4 | 93.2 | 88.4 | 85.7 | 82.3 | 80.5 | 79.2 | 75.3 | 73.2 |
| 72.5° | 56.1 | 67.1 | 73.9 | 72.9 | 71.8 | 70.0 | 67.9 | 67.4 | 65.4 | 62.8 | 60.9 |
| 75° | 41.1 | 47.4 | 53.6 | 55.8 | 55.5 | 56.1 | 53.9 | 53.1 | 51.9 | 50.0 | 48.5 |
| 77.5° | 29.5 | 33.3 | 37.5 | 40.3 | 41.6 | 41.8 | 41.8 | 41.3 | 40.4 | 39.1 | 37.9 |
| 80° | 20.5 | 21.3 | 25.3 | 27.8 | 29.2 | 30.2 | 30.2 | 30.4 | 29.5 | 29.0 | 28.2 |
| 82.5° | 14.2 | 14.7 | 15.5 | 17.6 | 19.3 | 20.5 | 20.6 | 20.5 | 20.1 | 20.0 | 18.8 |
| 85° | 8.9 | 8.7 | 8.7 | 9.2 | 10.6 | 11.8 | 11.9 | 12.3 | 12.1 | 11.9 | 10.8 |
| 87.5° | 3.8 | 3.8 | 3.9 | 3.8 | 4.3 | 4.4 | 4.8 | 5.6 | 5.5 | 4.6 | 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 |



TEST NUMBER: P243439

CATALOG NUMBER: S123RDR-H340D930-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

| | 110° | 115° | 120° | 125° | 130° | 135° | 140° | 145° | 150° | 155° | 160° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 395.2 | 395.2 | 395.2 | 395.2 | 395.2 | 395.2 | 395.2 | 395.2 | 395.2 | 395.2 | 395.2 |
| 2.5° | 387.7 | 385.5 | 383.4 | 381.2 | 378.5 | 375.9 | 375.6 | 375.3 | 376.1 | 374.4 | 373.7 |
| 5° | 378.2 | 373.9 | 370.6 | 366.6 | 363.7 | 359.9 | 357.9 | 357.3 | 357.2 | 356.1 | 354.8 |
| 7.5° | 367.7 | 363.1 | 358.5 | 353.9 | 349.1 | 345.2 | 343.0 | 341.8 | 340.8 | 339.1 | 337.7 |
| 10° | 358.0 | 352.2 | 347.3 | 341.0 | 335.8 | 330.7 | 328.7 | 327.0 | 325.9 | 323.5 | 321.7 |
| 12.5° | 347.1 | 339.8 | 334.3 | 327.5 | 322.9 | 318.4 | 315.2 | 311.9 | 309.6 | 306.0 | 304.4 |
| 15° | 337.5 | 329.9 | 320.6 | 316.6 | 310.1 | 303.4 | 299.8 | 299.8 | 294.9 | 292.0 | 290.1 |
| 17.5° | 324.7 | 318.1 | 311.6 | 303.2 | 294.0 | 290.1 | 286.0 | 282.4 | 279.0 | 278.2 | 274.7 |
| 20° | 313.5 | 305.6 | 299.0 | 289.9 | 281.6 | 277.0 | 272.2 | 268.3 | 265.7 | 263.3 | 261.4 |
| 22.5° | 302.4 | 294.5 | 284.3 | 275.4 | 269.8 | 263.7 | 258.5 | 255.1 | 252.9 | 249.3 | 247.6 |
| 25° | 290.8 | 281.4 | 272.2 | 263.5 | 256.5 | 251.2 | 245.9 | 244.0 | 240.1 | 238.2 | 235.8 |
| 27.5° | 279.2 | 267.9 | 259.2 | 251.7 | 243.9 | 238.7 | 235.2 | 231.7 | 228.3 | 227.3 | 225.9 |
| 30° | 266.2 | 255.8 | 247.4 | 240.1 | 232.6 | 228.2 | 223.9 | 220.8 | 217.9 | 215.7 | 214.2 |
| 32.5° | 253.2 | 244.5 | 236.5 | 228.0 | 221.2 | 216.4 | 212.8 | 210.1 | 208.7 | 204.9 | 203.6 |
| 35° | 241.3 | 232.4 | 223.9 | 215.9 | 210.4 | 205.8 | 202.6 | 200.0 | 197.1 | 194.7 | 193.3 |
| 37.5° | 229.0 | 221.0 | 212.3 | 205.5 | 199.3 | 195.6 | 192.0 | 188.6 | 186.3 | 185.0 | 183.3 |
| 40° | 217.1 | 208.5 | 201.9 | 194.4 | 188.9 | 184.6 | 180.9 | 178.3 | 175.6 | 174.4 | 172.2 |
| 42.5° | 205.8 | 197.6 | 189.9 | 183.1 | 178.2 | 174.1 | 170.5 | 167.6 | 165.4 | 163.1 | 161.9 |
| 45° | 192.8 | 185.7 | 178.7 | 171.8 | 167.2 | 162.8 | 158.9 | 156.3 | 153.2 | 151.4 | 150.7 |
| 47.5° | 181.9 | 174.4 | 166.9 | 160.6 | 155.8 | 151.0 | 147.8 | 144.7 | 142.2 | 140.3 | 139.2 |
| 50° | 168.9 | 161.9 | 155.8 | 149.5 | 144.9 | 139.8 | 135.8 | 132.9 | 130.0 | 128.7 | 127.0 |
| 52.5° | 157.8 | 151.0 | 143.5 | 137.9 | 132.6 | 128.2 | 124.6 | 122.2 | 119.6 | 117.6 | 116.4 |
| 55° | 144.0 | 137.4 | 131.4 | 125.4 | 120.1 | 116.6 | 113.7 | 109.6 | 107.3 | 105.3 | 102.0 |
| 57.5° | 131.9 | 125.6 | 119.3 | 113.5 | 108.5 | 104.3 | 100.7 | 98.0 | 95.1 | 93.5 | 91.3 |
| 60° | 119.1 | 112.5 | 106.7 | 102.2 | 96.8 | 92.2 | 89.8 | 86.5 | 84.1 | 81.7 | 81.1 |
| 62.5° | 106.5 | 100.3 | 94.5 | 89.9 | 85.0 | 81.4 | 78.3 | 76.8 | 74.4 | 72.5 | 71.8 |
| 65° | 93.3 | 88.2 | 82.8 | 77.6 | 74.6 | 70.5 | 68.8 | 66.2 | 64.8 | 64.0 | 63.8 |
| 67.5° | 80.4 | 75.8 | 70.8 | 66.9 | 64.0 | 61.3 | 59.2 | 58.2 | 56.8 | 55.8 | 54.9 |
| 70° | 68.6 | 64.2 | 59.9 | 56.7 | 54.4 | 52.4 | 51.0 | 49.1 | 47.8 | 46.4 | 44.5 |
| 72.5° | 57.0 | 53.4 | 49.8 | 47.3 | 45.1 | 43.9 | 42.0 | 39.1 | 37.7 | 37.4 | 37.2 |
| 75° | 46.2 | 42.3 | 39.8 | 38.4 | 36.3 | 33.4 | 32.3 | 31.9 | 31.7 | 31.4 | 31.4 |
| 77.5° | 35.7 | 33.3 | 31.6 | 28.7 | 27.6 | 27.5 | 26.6 | 26.5 | 26.1 | 26.3 | 26.3 |
| 80° | 25.9 | 24.6 | 22.5 | 21.7 | 21.3 | 21.5 | 21.2 | 21.3 | 21.0 | 21.2 | 20.8 |
| 82.5° | 17.2 | 16.0 | 16.4 | 15.9 | 15.9 | 16.2 | 16.0 | 15.5 | 15.5 | 15.4 | 15.4 |
| 85° | 10.2 | 10.1 | 10.4 | 10.4 | 10.2 | 9.7 | 10.1 | 9.9 | 9.4 | 9.6 | 9.6 |
| 87.5° | 4.4 | 4.4 | 4.4 | 4.3 | 4.4 | 4.3 | 4.3 | 4.3 | 3.8 | 3.8 | 3.8 |
| 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: P243439

CATALOG NUMBER: S123RDR-H340D930-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

| | 165° | 170° | 175° | 180° |
|-------|-------|-------|-------|-------|
| 0° | 395.2 | 395.2 | 395.2 | 395.2 |
| 2.5° | 374.1 | 373.7 | 373.2 | 372.7 |
| 5° | 354.8 | 353.2 | 353.1 | 352.6 |
| 7.5° | 336.7 | 336.0 | 334.8 | 336.2 |
| 10° | 320.1 | 320.6 | 319.5 | 318.1 |
| 12.5° | 302.9 | 301.9 | 300.0 | 301.0 |
| 15° | 287.7 | 286.0 | 285.0 | 282.6 |
| 17.5° | 271.8 | 270.5 | 270.5 | 268.9 |
| 20° | 258.0 | 256.7 | 257.0 | 256.0 |
| 22.5° | 246.4 | 245.4 | 243.9 | 244.0 |
| 25° | 235.5 | 234.0 | 232.3 | 232.4 |
| 27.5° | 223.4 | 222.0 | 221.7 | 220.5 |
| 30° | 212.6 | 211.4 | 211.3 | 211.3 |
| 32.5° | 202.2 | 201.7 | 200.9 | 200.3 |
| 35° | 193.2 | 192.5 | 191.1 | 191.5 |
| 37.5° | 181.9 | 181.2 | 181.1 | 180.9 |
| 40° | 171.3 | 170.8 | 169.5 | 169.6 |
| 42.5° | 160.8 | 159.9 | 159.0 | 158.7 |
| 45° | 149.3 | 149.1 | 147.8 | 148.1 |
| 47.5° | 138.4 | 138.1 | 137.4 | 136.5 |
| 50° | 126.3 | 126.1 | 125.6 | 124.6 |
| 52.5° | 114.5 | 114.0 | 113.0 | 111.9 |
| 55° | 101.2 | 99.7 | 99.8 | 99.0 |
| 57.5° | 90.3 | 89.6 | 88.2 | 87.7 |
| 60° | 79.7 | 79.0 | 78.8 | 78.2 |
| 62.5° | 70.8 | 70.1 | 69.6 | 69.6 |
| 65° | 62.8 | 61.9 | 61.8 | 61.8 |
| 67.5° | 53.9 | 53.1 | 52.9 | 52.6 |
| 70° | 42.8 | 42.7 | 42.3 | 42.3 |
| 72.5° | 36.9 | 36.7 | 36.9 | 36.2 |
| 75° | 31.4 | 31.2 | 31.2 | 31.4 |
| 77.5° | 26.1 | 26.1 | 25.9 | 25.9 |
| 80° | 20.6 | 20.8 | 20.6 | 21.2 |
| 82.5° | 15.5 | 15.2 | 15.4 | 15.0 |
| 85° | 9.6 | 9.6 | 9.2 | 9.2 |
| 87.5° | 3.8 | 3.8 | 3.8 | 3.8 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)