

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: P332396-830

Luminaire Tested: **S123RDIW-S340D755U830-4F0-1E-UDD-F**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332396-830
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-5,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S123RDIW-S340D755U830-4F0-1E-UDD-F
Description: DEFINE 3 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 340 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER, REGRESSED
HOUSING
UPLIGHT 755 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4072.8 lumens
Efficiency: N/A
Efficacy: 134.0 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.06 / 1.22
Luminous Opening: Rectangular (W 0.25' x L: 4' x H: 0')
CIE Type: Semi-Indirect

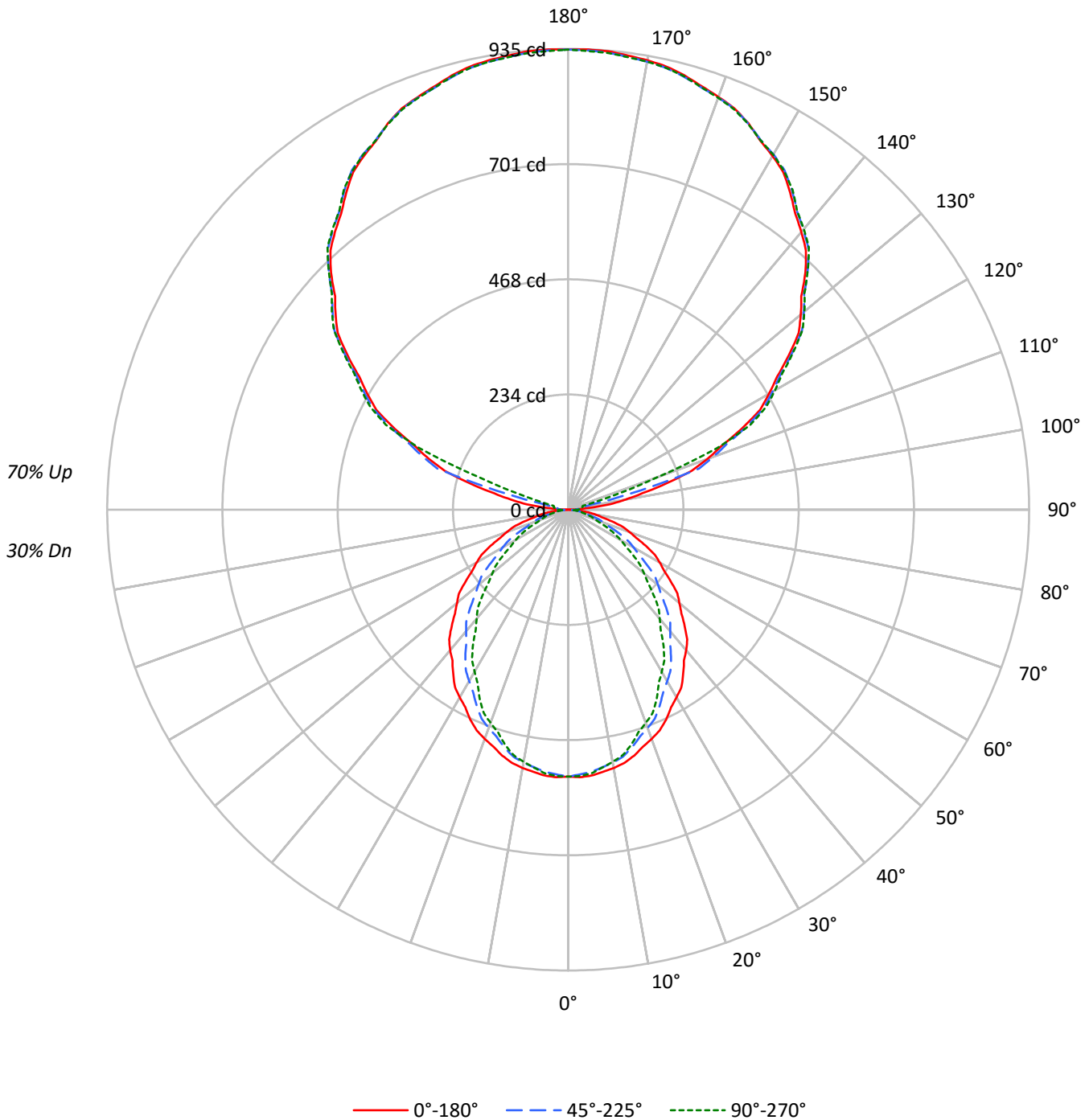
Input Watts (W): 30.4
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P332396-830

CATALOG NUMBER: S123RDIW-S340D755U830-4F0-1E-UDD-F

Luminous Intensity Polar Plot





TEST NUMBER: P332396-830

CATALOG NUMBER: S123RDIW-S340D755U830-4F0-1E-UDD-F

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|---|--|--|--|----|--|--|--|--|--|--|--|--|----|---|
| RF | 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 | 50 | 30 | 10 | 50 | 30 | 10 | 0 | | | | | | | | | | | | | | |
| RCR | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 102 | 102 | 102 | 102 | 92 | 92 | 92 | 92 | 72 | 72 | 72 | 54 | 54 | 54 | 38 | 38 | 38 | 30 | | | | | 30 | | | | | | | | | | | | | | | |
| 1 | 94 | 89 | 86 | 82 | 84 | 80 | 77 | 74 | 63 | 61 | 60 | 48 | 47 | 45 | 34 | 33 | 32 | 26 | | | | | 26 | | | | | | | | | | | | | | | |
| 2 | 85 | 78 | 72 | 68 | 76 | 70 | 66 | 61 | 56 | 52 | 50 | 42 | 40 | 38 | 30 | 29 | 27 | 22 | | | | | 22 | | | | | | | | | | | | | | | |
| 3 | 78 | 69 | 62 | 56 | 70 | 62 | 56 | 51 | 49 | 45 | 42 | 38 | 35 | 33 | 27 | 25 | 24 | 19 | | | | | 19 | | | | | | | | | | | | | | | |
| 4 | 71 | 61 | 53 | 48 | 64 | 55 | 49 | 44 | 44 | 39 | 36 | 34 | 30 | 28 | 24 | 22 | 20 | 16 | | | | | 16 | | | | | | | | | | | | | | | |
| 5 | 65 | 54 | 47 | 41 | 58 | 49 | 42 | 37 | 39 | 34 | 31 | 30 | 27 | 24 | 22 | 20 | 18 | 14 | | | | | 14 | | | | | | | | | | | | | | | |
| 6 | 60 | 49 | 41 | 35 | 54 | 44 | 37 | 32 | 35 | 30 | 27 | 27 | 24 | 21 | 20 | 17 | 16 | 13 | | | | | 13 | | | | | | | | | | | | | | | |
| 7 | 56 | 44 | 36 | 31 | 50 | 40 | 33 | 28 | 32 | 27 | 24 | 25 | 21 | 19 | 18 | 16 | 14 | 11 | | | | | 11 | | | | | | | | | | | | | | | |
| 8 | 51 | 40 | 32 | 27 | 46 | 36 | 30 | 25 | 29 | 24 | 21 | 23 | 19 | 17 | 16 | 14 | 13 | 10 | | | | | 10 | | | | | | | | | | | | | | | |
| 9 | 48 | 36 | 29 | 24 | 43 | 33 | 27 | 22 | 27 | 22 | 19 | 21 | 17 | 15 | 15 | 13 | 11 | 9 | | | | | 9 | | | | | | | | | | | | | | | |
| 10 | 45 | 33 | 26 | 21 | 40 | 30 | 24 | 20 | 24 | 20 | 17 | 19 | 16 | 13 | 14 | 12 | 10 | 8 | | | | | 8 | | | | | | | | | | | | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 5829 | 5829 | 5829 |
| 5° | 5851 | 5770 | 5804 |
| 10° | 5818 | 5698 | 5678 |
| 15° | 5756 | 5565 | 5506 |
| 20° | 5669 | 5399 | 5271 |
| 25° | 5582 | 5211 | 5044 |
| 30° | 5464 | 4994 | 4721 |
| 35° | 5344 | 4778 | 4427 |
| 40° | 5233 | 4523 | 4061 |
| 45° | 5087 | 4271 | 3731 |
| 50° | 4928 | 3985 | 3361 |
| 55° | 4763 | 3659 | 3016 |
| 60° | 4613 | 3309 | 2637 |
| 65° | 4419 | 2932 | 2259 |
| 70° | 4173 | 2458 | 1825 |
| 75° | 3818 | 1938 | 1718 |
| 80° | 3403 | 1717 | 1574 |
| 85° | 2878 | 1519 | 1408 |



TEST NUMBER: P332396-830

CATALOG NUMBER: S123RDIW-S340D755U830-4F0-1E-UDD-F

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 50.9 | 1.2 |
| 10°-20° | 141.5 | 3.5 |
| 20°-30° | 203.7 | 5.0 |
| 30°-40° | 229.5 | 5.6 |
| 40°-50° | 219.5 | 5.4 |
| 50°-60° | 179.8 | 4.4 |
| 60°-70° | 121.3 | 3.0 |
| 70°-80° | 61.0 | 1.5 |
| 80°-90° | 18.8 | 0.5 |
| 90°-100° | 33.9 | 0.8 |
| 100°-110° | 161.8 | 4.0 |
| 110°-120° | 388.6 | 9.5 |
| 120°-130° | 494.8 | 12.1 |
| 130°-140° | 528.7 | 13.0 |
| 140°-150° | 494.4 | 12.1 |
| 150°-160° | 398.8 | 9.8 |
| 160°-170° | 257.4 | 6.3 |
| 170°-180° | 88.7 | 2.2 |
| 0°-30° | 396.1 | 9.7 |
| 0°-40° | 625.5 | 15.4 |
| 0°-60° | 1024.8 | 25.2 |
| 0°-90° | 1225.9 | 30.1 |
| 90°-120° | 584.3 | 14.3 |
| 90°-150° | 2102.1 | 51.6 |
| 90°-180° | 2847.0 | 69.9 |
| 0°-180° | 4072.8 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|-----|-------|-----|-------|-----|------|
| 0° | 542 | 542 | 542 | 542 | 542 | |
| 5° | 542 | 539 | 534 | 538 | 537 | 51 |
| 15° | 516 | 511 | 499 | 497 | 494 | 145 |
| 25° | 470 | 458 | 439 | 430 | 425 | 216 |
| 35° | 407 | 390 | 364 | 345 | 337 | 254 |
| 45° | 334 | 314 | 281 | 256 | 245 | 258 |
| 55° | 254 | 231 | 195 | 170 | 161 | 228 |
| 65° | 174 | 149 | 115 | 94 | 89 | 172 |
| 75° | 92 | 71 | 47 | 42 | 41 | 98 |
| 85° | 23 | 14 | 12 | 11 | 11 | 26 |
| 90° | 1 | 8 | 17 | 19 | 21 | 3 |
| 95° | 42 | 16 | 22 | 26 | 26 | 52 |
| 105° | 207 | 210 | 152 | 36 | 30 | 219 |
| 115° | 388 | 392 | 398 | 405 | 408 | 383 |
| 125° | 547 | 552 | 555 | 556 | 558 | 488 |
| 135° | 680 | 684 | 687 | 689 | 687 | 524 |
| 145° | 785 | 790 | 791 | 793 | 793 | 491 |
| 155° | 865 | 864 | 864 | 867 | 864 | 398 |
| 165° | 912 | 910 | 909 | 914 | 910 | 258 |
| 175° | 934 | 930 | 931 | 935 | 930 | 89 |
| 180° | 934 | 934 | 934 | 934 | 934 | |



TEST NUMBER: P332396-830

CATALOG NUMBER: S123RDIW-S340D755U830-4F0-1E-UDD-F

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 541.5 | 541.5 | 541.5 | 541.5 | 541.5 | 541.5 | 541.5 | 541.5 | 541.5 | 541.5 | 541.5 |
| 2.5° | 543.3 | 542.9 | 542.6 | 542.3 | 542.1 | 541.4 | 540.5 | 539.5 | 538.6 | 537.6 | 538.5 |
| 5° | 541.5 | 541.0 | 540.5 | 540.1 | 539.5 | 538.8 | 537.5 | 536.4 | 535.2 | 534.0 | 534.9 |
| 7.5° | 536.5 | 535.9 | 535.5 | 534.9 | 534.4 | 533.4 | 531.9 | 530.4 | 528.8 | 527.3 | 527.7 |
| 10° | 532.3 | 531.6 | 530.9 | 530.3 | 529.5 | 528.3 | 526.6 | 524.8 | 523.0 | 521.3 | 521.4 |
| 12.5° | 526.3 | 525.6 | 524.8 | 524.1 | 523.3 | 521.8 | 519.6 | 517.6 | 515.4 | 513.2 | 513.1 |
| 15° | 516.5 | 515.4 | 514.3 | 513.2 | 512.2 | 510.3 | 507.6 | 504.8 | 502.1 | 499.4 | 498.9 |
| 17.5° | 504.1 | 502.8 | 501.6 | 500.3 | 499.1 | 496.7 | 493.2 | 489.7 | 486.4 | 482.9 | 481.8 |
| 20° | 494.9 | 493.4 | 491.8 | 490.3 | 488.7 | 486.1 | 482.4 | 478.6 | 474.9 | 471.3 | 470.0 |
| 22.5° | 484.7 | 483.0 | 481.2 | 479.4 | 477.6 | 474.8 | 470.8 | 466.8 | 462.9 | 458.9 | 457.3 |
| 25° | 470.0 | 467.5 | 465.1 | 462.6 | 460.1 | 456.7 | 452.2 | 447.7 | 443.2 | 438.8 | 436.7 |
| 27.5° | 451.9 | 449.2 | 446.5 | 443.8 | 441.1 | 437.3 | 432.3 | 427.3 | 422.3 | 417.3 | 414.4 |
| 30° | 439.6 | 436.7 | 433.8 | 430.8 | 427.9 | 423.7 | 418.2 | 412.7 | 407.3 | 401.8 | 398.5 |
| 32.5° | 427.3 | 424.0 | 420.7 | 417.4 | 414.1 | 409.5 | 403.7 | 397.9 | 392.2 | 386.3 | 382.8 |
| 35° | 406.7 | 403.1 | 399.6 | 396.2 | 392.7 | 387.9 | 381.8 | 375.7 | 369.7 | 363.6 | 359.5 |
| 37.5° | 385.8 | 381.8 | 378.0 | 374.1 | 370.1 | 365.0 | 358.5 | 352.0 | 345.6 | 339.1 | 334.4 |
| 40° | 372.4 | 368.2 | 363.8 | 359.6 | 355.2 | 349.6 | 342.7 | 335.7 | 328.9 | 321.9 | 316.9 |
| 42.5° | 357.3 | 353.0 | 348.7 | 344.4 | 340.2 | 334.4 | 327.3 | 320.1 | 312.9 | 305.8 | 300.2 |
| 45° | 334.2 | 329.8 | 325.5 | 321.0 | 316.6 | 310.7 | 303.2 | 295.7 | 288.1 | 280.6 | 275.0 |
| 47.5° | 311.1 | 306.3 | 301.4 | 296.6 | 291.8 | 285.7 | 278.1 | 270.6 | 263.2 | 255.6 | 249.6 |
| 50° | 294.3 | 289.6 | 285.1 | 280.5 | 275.9 | 269.7 | 261.7 | 253.8 | 245.9 | 238.0 | 232.0 |
| 52.5° | 279.2 | 274.2 | 269.2 | 264.2 | 259.2 | 252.8 | 245.0 | 237.1 | 229.3 | 221.5 | 215.3 |
| 55° | 253.8 | 249.0 | 244.3 | 239.5 | 234.7 | 228.2 | 219.9 | 211.6 | 203.3 | 195.0 | 189.4 |
| 57.5° | 230.5 | 225.3 | 220.1 | 214.8 | 209.6 | 202.8 | 194.5 | 186.2 | 177.9 | 169.6 | 164.2 |
| 60° | 214.3 | 209.0 | 203.6 | 198.2 | 192.8 | 186.2 | 178.0 | 169.9 | 161.8 | 153.7 | 148.5 |
| 62.5° | 198.1 | 192.7 | 187.4 | 182.1 | 176.7 | 169.9 | 161.8 | 153.7 | 145.6 | 137.5 | 132.6 |
| 65° | 173.5 | 168.1 | 162.8 | 157.4 | 152.0 | 145.5 | 137.9 | 130.3 | 122.7 | 115.1 | 110.3 |
| 67.5° | 148.8 | 143.4 | 137.9 | 132.5 | 127.1 | 120.7 | 113.4 | 106.1 | 98.8 | 91.5 | 87.9 |
| 70° | 132.6 | 127.3 | 122.1 | 116.8 | 111.6 | 105.5 | 98.7 | 91.8 | 85.0 | 78.1 | 74.7 |
| 72.5° | 116.5 | 111.3 | 106.1 | 100.9 | 95.7 | 90.0 | 83.8 | 77.6 | 71.4 | 65.1 | 62.4 |
| 75° | 91.8 | 87.1 | 82.4 | 77.8 | 73.0 | 68.1 | 62.7 | 57.3 | 51.9 | 46.6 | 45.6 |
| 77.5° | 69.3 | 65.0 | 60.8 | 56.6 | 52.4 | 48.5 | 45.1 | 41.6 | 38.2 | 34.7 | 34.2 |
| 80° | 54.9 | 50.9 | 46.9 | 42.9 | 38.9 | 35.9 | 33.8 | 31.8 | 29.7 | 27.7 | 27.3 |
| 82.5° | 41.2 | 37.7 | 34.3 | 30.8 | 27.3 | 25.2 | 24.2 | 23.3 | 22.3 | 21.3 | 21.0 |
| 85° | 23.3 | 21.1 | 18.9 | 16.9 | 14.7 | 13.5 | 13.2 | 12.9 | 12.6 | 12.3 | 12.1 |
| 87.5° | 8.6 | 8.0 | 7.4 | 6.9 | 6.4 | 6.3 | 6.7 | 7.1 | 7.5 | 7.9 | 7.9 |
| 90° | 0.7 | 2.3 | 3.8 | 5.3 | 6.9 | 8.7 | 10.7 | 12.6 | 14.6 | 16.7 | 17.2 |
| 92.5° | 12.9 | 12.4 | 12.1 | 11.6 | 11.2 | 11.7 | 13.2 | 14.7 | 16.2 | 17.7 | 18.8 |
| 95° | 42.3 | 36.0 | 29.7 | 23.4 | 17.1 | 14.7 | 16.4 | 18.1 | 19.8 | 21.5 | 22.6 |
| 97.5° | 85.0 | 82.2 | 79.4 | 76.5 | 73.7 | 66.7 | 55.6 | 44.5 | 33.5 | 22.3 | 23.6 |
| 100° | 117.3 | 120.3 | 123.4 | 126.5 | 129.5 | 119.0 | 95.0 | 71.0 | 46.9 | 22.9 | 24.1 |
| 102.5° | 153.8 | 156.1 | 158.3 | 160.5 | 162.7 | 150.7 | 124.4 | 98.1 | 71.9 | 45.6 | 41.8 |
| 105° | 206.7 | 208.4 | 210.1 | 211.8 | 213.5 | 207.4 | 193.5 | 179.6 | 165.8 | 151.9 | 124.6 |
| 107.5° | 262.4 | 263.8 | 265.1 | 266.6 | 267.9 | 269.7 | 271.8 | 274.0 | 276.3 | 278.4 | 258.4 |
| 110° | 299.6 | 300.9 | 302.1 | 303.3 | 304.5 | 306.0 | 307.7 | 309.4 | 311.1 | 312.8 | 307.7 |



TEST NUMBER: P332396-830

CATALOG NUMBER: S123RDIW-S340D755U830-4F0-1E-UDD-F

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 335.2 | 336.2 | 337.3 | 338.5 | 339.6 | 341.0 | 342.7 | 344.4 | 346.1 | 347.8 | 347.9 |
| 115° | 387.7 | 388.6 | 389.6 | 390.5 | 391.4 | 392.6 | 394.0 | 395.3 | 396.7 | 398.1 | 399.6 |
| 117.5° | 438.7 | 439.8 | 440.9 | 442.1 | 443.2 | 444.1 | 444.8 | 445.5 | 446.2 | 447.0 | 448.2 |
| 120° | 470.2 | 471.6 | 473.1 | 474.4 | 475.8 | 476.7 | 477.2 | 477.7 | 478.2 | 478.5 | 479.8 |
| 122.5° | 502.5 | 503.6 | 504.7 | 505.9 | 507.0 | 507.8 | 508.4 | 509.1 | 509.6 | 510.2 | 511.0 |
| 125° | 546.6 | 547.8 | 549.0 | 550.3 | 551.5 | 552.4 | 553.0 | 553.6 | 554.2 | 554.9 | 555.2 |
| 127.5° | 589.3 | 590.5 | 591.7 | 593.0 | 594.2 | 595.2 | 596.0 | 596.6 | 597.4 | 598.1 | 598.6 |
| 130° | 615.9 | 617.2 | 618.4 | 619.6 | 620.9 | 621.8 | 622.4 | 623.0 | 623.6 | 624.2 | 624.8 |
| 132.5° | 641.4 | 642.6 | 643.9 | 645.1 | 646.4 | 647.2 | 647.7 | 648.2 | 648.7 | 649.2 | 649.8 |
| 135° | 680.4 | 681.4 | 682.2 | 683.2 | 684.1 | 684.9 | 685.5 | 686.1 | 686.7 | 687.3 | 687.8 |
| 137.5° | 713.7 | 714.8 | 716.0 | 717.2 | 718.4 | 719.2 | 719.4 | 719.8 | 720.2 | 720.5 | 721.2 |
| 140° | 735.8 | 736.8 | 737.7 | 738.7 | 739.6 | 740.3 | 740.7 | 741.2 | 741.7 | 742.2 | 742.7 |
| 142.5° | 756.4 | 757.3 | 758.3 | 759.2 | 760.2 | 760.8 | 761.3 | 761.8 | 762.2 | 762.7 | 763.2 |
| 145° | 785.1 | 786.2 | 787.3 | 788.3 | 789.5 | 790.1 | 790.4 | 790.8 | 791.1 | 791.4 | 791.6 |
| 147.5° | 812.2 | 812.8 | 813.6 | 814.3 | 815.0 | 815.5 | 815.9 | 816.1 | 816.4 | 816.7 | 817.1 |
| 150° | 828.9 | 829.2 | 829.7 | 830.2 | 830.7 | 831.0 | 831.4 | 831.7 | 832.0 | 832.3 | 832.6 |
| 152.5° | 843.8 | 844.0 | 844.2 | 844.4 | 844.7 | 844.9 | 845.1 | 845.3 | 845.5 | 845.6 | 846.1 |
| 155° | 864.9 | 864.6 | 864.3 | 863.9 | 863.7 | 863.6 | 863.7 | 863.9 | 864.0 | 864.2 | 865.0 |
| 157.5° | 881.3 | 881.3 | 881.2 | 881.2 | 881.2 | 881.1 | 880.9 | 880.7 | 880.6 | 880.4 | 881.4 |
| 160° | 891.3 | 891.1 | 891.0 | 890.8 | 890.6 | 890.5 | 890.3 | 890.1 | 890.0 | 889.9 | 890.8 |
| 162.5° | 900.7 | 900.3 | 899.8 | 899.5 | 899.1 | 898.8 | 898.6 | 898.5 | 898.3 | 898.1 | 899.3 |
| 165° | 912.1 | 911.6 | 911.2 | 910.7 | 910.2 | 909.9 | 909.7 | 909.6 | 909.5 | 909.3 | 910.5 |
| 167.5° | 921.0 | 920.3 | 919.7 | 919.1 | 918.5 | 918.1 | 918.1 | 918.1 | 918.1 | 918.1 | 919.4 |
| 170° | 926.0 | 925.3 | 924.7 | 924.1 | 923.5 | 923.1 | 923.1 | 923.1 | 923.1 | 923.1 | 924.4 |
| 172.5° | 929.3 | 928.5 | 927.7 | 927.1 | 926.3 | 926.0 | 926.1 | 926.2 | 926.3 | 926.5 | 927.7 |
| 175° | 933.6 | 932.7 | 932.0 | 931.2 | 930.5 | 930.2 | 930.3 | 930.5 | 930.7 | 930.8 | 931.9 |
| 177.5° | 934.6 | 934.1 | 933.4 | 932.8 | 932.2 | 932.0 | 932.1 | 932.2 | 932.4 | 932.5 | 933.4 |
| 180° | 933.6 | 933.6 | 933.6 | 933.6 | 933.6 | 933.6 | 933.6 | 933.6 | 933.6 | 933.6 | 933.6 |



TEST NUMBER: P332396-830

CATALOG NUMBER: S123RDIW-S340D755U830-4F0-1E-UDD-F

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 541.5 | 541.5 | 541.5 | 541.5 | 541.5 | 541.5 | 541.5 | 541.5 |
| 2.5° | 539.3 | 540.2 | 541.1 | 541.4 | 541.3 | 541.1 | 540.9 | 540.8 |
| 5° | 535.8 | 536.7 | 537.5 | 537.9 | 537.7 | 537.5 | 537.3 | 537.2 |
| 7.5° | 528.3 | 528.8 | 529.2 | 529.3 | 529.0 | 528.7 | 528.3 | 528.0 |
| 10° | 521.5 | 521.6 | 521.7 | 521.5 | 521.0 | 520.6 | 520.0 | 519.5 |
| 12.5° | 513.1 | 513.0 | 513.0 | 512.6 | 512.1 | 511.5 | 511.0 | 510.4 |
| 15° | 498.3 | 497.9 | 497.4 | 496.8 | 496.2 | 495.4 | 494.7 | 494.1 |
| 17.5° | 480.8 | 479.8 | 478.7 | 477.7 | 476.6 | 475.6 | 474.7 | 473.6 |
| 20° | 468.7 | 467.4 | 466.2 | 465.0 | 463.7 | 462.6 | 461.5 | 460.2 |
| 22.5° | 455.8 | 454.2 | 452.6 | 451.3 | 450.2 | 449.1 | 448.0 | 447.0 |
| 25° | 434.6 | 432.6 | 430.6 | 429.0 | 427.9 | 426.9 | 425.7 | 424.7 |
| 27.5° | 411.6 | 408.8 | 406.0 | 403.7 | 402.0 | 400.4 | 398.8 | 397.1 |
| 30° | 395.2 | 391.9 | 388.6 | 386.2 | 384.6 | 383.0 | 381.4 | 379.8 |
| 32.5° | 379.1 | 375.5 | 371.8 | 369.2 | 367.6 | 366.0 | 364.3 | 362.7 |
| 35° | 355.2 | 351.0 | 346.9 | 343.8 | 342.1 | 340.4 | 338.6 | 336.9 |
| 37.5° | 329.6 | 324.8 | 320.1 | 316.6 | 314.4 | 312.3 | 310.1 | 307.9 |
| 40° | 311.8 | 306.7 | 301.6 | 297.9 | 295.7 | 293.5 | 291.2 | 289.0 |
| 42.5° | 294.6 | 289.2 | 283.6 | 279.8 | 277.8 | 275.8 | 273.8 | 271.7 |
| 45° | 269.5 | 263.9 | 258.4 | 254.4 | 252.1 | 249.8 | 247.4 | 245.1 |
| 47.5° | 243.5 | 237.4 | 231.4 | 227.3 | 225.3 | 223.2 | 221.0 | 219.0 |
| 50° | 225.9 | 219.9 | 213.9 | 209.7 | 207.5 | 205.2 | 202.9 | 200.7 |
| 52.5° | 209.0 | 202.6 | 196.4 | 192.3 | 190.2 | 188.2 | 186.2 | 184.2 |
| 55° | 183.7 | 178.0 | 172.4 | 168.5 | 166.6 | 164.7 | 162.7 | 160.7 |
| 57.5° | 158.8 | 153.4 | 148.2 | 144.6 | 143.0 | 141.3 | 139.7 | 138.0 |
| 60° | 143.2 | 137.9 | 132.6 | 129.1 | 127.5 | 125.8 | 124.2 | 122.5 |
| 62.5° | 127.6 | 122.7 | 117.7 | 114.3 | 112.6 | 110.9 | 109.1 | 107.4 |
| 65° | 105.5 | 100.8 | 96.0 | 93.0 | 91.9 | 90.9 | 89.8 | 88.7 |
| 67.5° | 84.4 | 80.8 | 77.2 | 74.8 | 73.7 | 72.6 | 71.4 | 70.3 |
| 70° | 71.4 | 68.0 | 64.5 | 62.3 | 61.2 | 60.1 | 59.0 | 58.0 |
| 72.5° | 59.6 | 56.8 | 54.0 | 52.4 | 51.9 | 51.5 | 51.1 | 50.6 |
| 75° | 44.6 | 43.6 | 42.6 | 42.0 | 41.8 | 41.7 | 41.5 | 41.3 |
| 77.5° | 33.6 | 33.1 | 32.6 | 32.2 | 32.0 | 31.9 | 31.7 | 31.5 |
| 80° | 27.1 | 26.8 | 26.5 | 26.3 | 26.0 | 25.8 | 25.6 | 25.4 |
| 82.5° | 20.7 | 20.5 | 20.2 | 20.0 | 20.0 | 19.9 | 19.9 | 19.9 |
| 85° | 11.9 | 11.7 | 11.5 | 11.4 | 11.4 | 11.4 | 11.4 | 11.4 |
| 87.5° | 8.0 | 8.0 | 8.1 | 8.1 | 8.1 | 8.1 | 8.0 | 8.0 |
| 90° | 17.9 | 18.5 | 19.1 | 19.6 | 19.9 | 20.2 | 20.5 | 20.8 |
| 92.5° | 19.7 | 20.7 | 21.7 | 22.2 | 22.4 | 22.6 | 22.8 | 23.0 |
| 95° | 23.7 | 24.7 | 25.8 | 26.4 | 26.4 | 26.4 | 26.4 | 26.4 |
| 97.5° | 24.8 | 26.0 | 27.2 | 28.0 | 28.1 | 28.3 | 28.5 | 28.6 |
| 100° | 25.4 | 26.6 | 27.8 | 28.6 | 28.7 | 28.8 | 28.9 | 29.1 |
| 102.5° | 38.0 | 34.2 | 30.3 | 28.6 | 28.8 | 29.1 | 29.4 | 29.7 |
| 105° | 97.4 | 70.0 | 42.8 | 29.3 | 29.6 | 29.9 | 30.3 | 30.5 |
| 107.5° | 238.4 | 218.4 | 198.4 | 178.1 | 157.5 | 137.0 | 116.4 | 95.9 |
| 110° | 302.7 | 297.6 | 292.5 | 278.9 | 256.8 | 234.8 | 212.7 | 190.8 |



TEST NUMBER: P332396-830

CATALOG NUMBER: S123RDIW-S340D755U830-4F0-1E-UDD-F

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 348.0 | 348.1 | 348.2 | 345.8 | 341.2 | 336.6 | 331.9 | 327.3 |
| 115° | 401.2 | 402.7 | 404.3 | 405.4 | 406.0 | 406.6 | 407.2 | 407.8 |
| 117.5° | 449.4 | 450.6 | 451.9 | 452.5 | 452.7 | 452.8 | 452.9 | 453.1 |
| 120° | 481.1 | 482.3 | 483.5 | 484.1 | 484.1 | 484.1 | 484.1 | 484.1 |
| 122.5° | 511.9 | 512.7 | 513.7 | 514.2 | 514.3 | 514.3 | 514.5 | 514.6 |
| 125° | 555.4 | 555.8 | 556.1 | 556.4 | 556.8 | 557.0 | 557.3 | 557.6 |
| 127.5° | 599.2 | 599.6 | 600.1 | 600.2 | 599.9 | 599.6 | 599.3 | 599.0 |
| 130° | 625.5 | 626.0 | 626.7 | 626.9 | 626.5 | 626.2 | 625.9 | 625.6 |
| 132.5° | 650.4 | 651.0 | 651.7 | 651.8 | 651.3 | 650.9 | 650.4 | 650.0 |
| 135° | 688.2 | 688.7 | 689.2 | 689.2 | 688.7 | 688.2 | 687.8 | 687.3 |
| 137.5° | 722.0 | 722.7 | 723.5 | 723.7 | 723.4 | 723.0 | 722.7 | 722.5 |
| 140° | 743.4 | 743.9 | 744.6 | 744.8 | 744.4 | 744.1 | 743.9 | 743.5 |
| 142.5° | 763.6 | 764.1 | 764.6 | 764.7 | 764.2 | 763.8 | 763.4 | 762.9 |
| 145° | 792.0 | 792.3 | 792.6 | 792.8 | 792.8 | 792.8 | 792.8 | 792.8 |
| 147.5° | 817.4 | 817.7 | 818.0 | 817.7 | 817.1 | 816.3 | 815.7 | 814.9 |
| 150° | 832.9 | 833.2 | 833.5 | 833.5 | 833.0 | 832.5 | 832.1 | 831.6 |
| 152.5° | 846.7 | 847.3 | 847.8 | 847.7 | 847.1 | 846.3 | 845.6 | 844.9 |
| 155° | 865.7 | 866.5 | 867.3 | 867.2 | 866.3 | 865.3 | 864.4 | 863.5 |
| 157.5° | 882.3 | 883.2 | 884.1 | 884.0 | 882.8 | 881.6 | 880.4 | 879.2 |
| 160° | 891.7 | 892.7 | 893.5 | 893.5 | 892.4 | 891.4 | 890.2 | 889.2 |
| 162.5° | 900.3 | 901.4 | 902.4 | 902.4 | 901.4 | 900.5 | 899.6 | 898.6 |
| 165° | 911.7 | 912.9 | 914.2 | 914.3 | 913.2 | 912.1 | 911.1 | 909.9 |
| 167.5° | 920.6 | 921.9 | 923.1 | 923.1 | 921.9 | 920.6 | 919.4 | 918.1 |
| 170° | 925.6 | 926.9 | 928.1 | 928.1 | 926.9 | 925.6 | 924.4 | 923.1 |
| 172.5° | 929.0 | 930.2 | 931.4 | 931.3 | 930.0 | 928.7 | 927.3 | 926.0 |
| 175° | 932.9 | 934.1 | 935.1 | 935.0 | 933.8 | 932.6 | 931.3 | 930.1 |
| 177.5° | 934.4 | 935.4 | 936.4 | 936.2 | 935.0 | 933.8 | 932.6 | 931.3 |
| 180° | 933.6 | 933.6 | 933.6 | 933.6 | 933.6 | 933.6 | 933.6 | 933.6 |

(END OF REPORT)