

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: P332263

Luminaire Tested: **S123RDIP-S340D1025U835-4F0-1E-UDD-F4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332263
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-17,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S123RDIP-S340D1025U835-4F0-1E-UDD-F4
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 340 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER, REGRESSED
HOUSING
UPLIGHT 1025 LUMENS PER FOOT, BATWING OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5011.5 lumens
Efficiency: N/A
Efficacy: 134.4 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

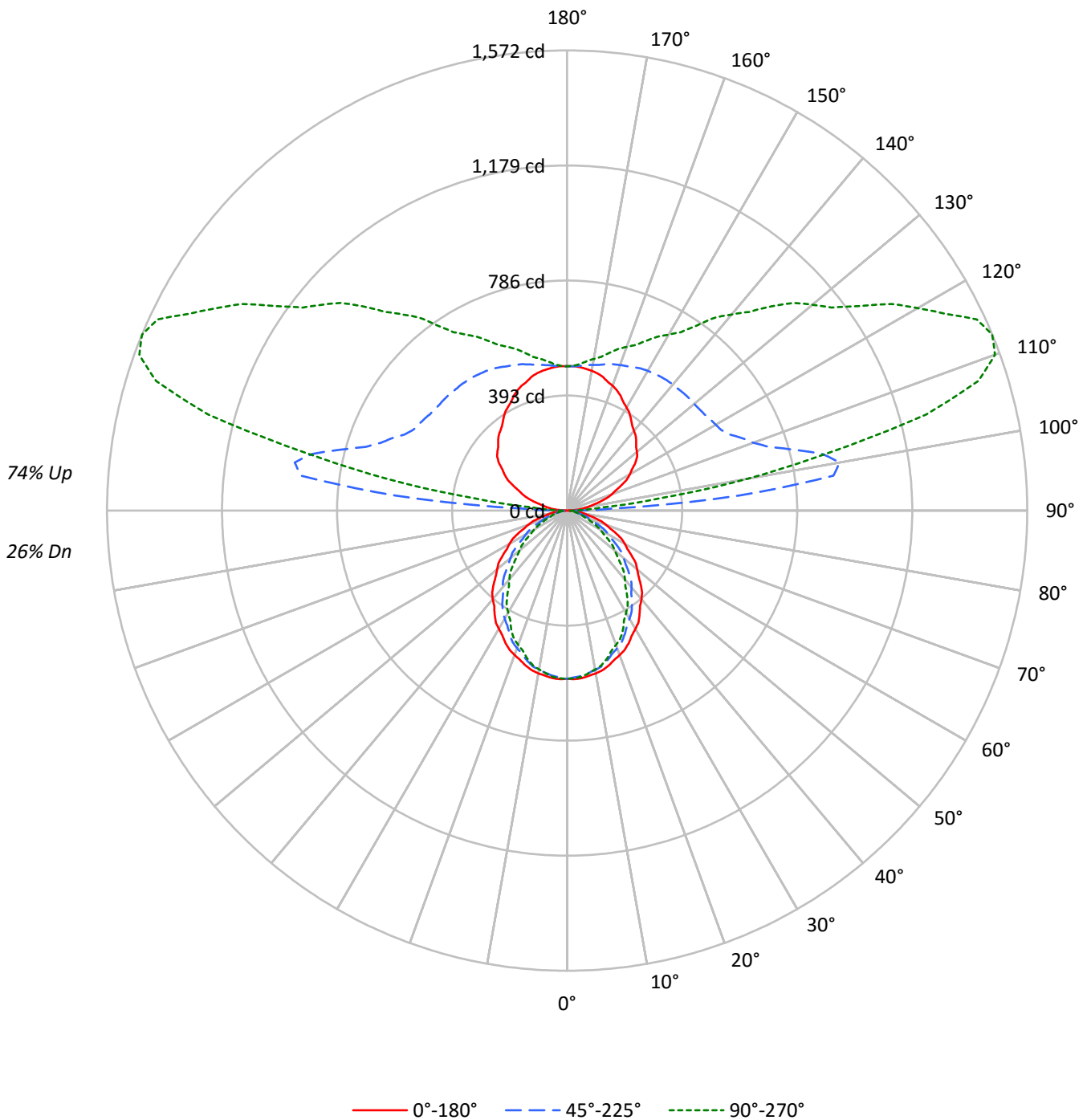
Input Watts (W): 37.3
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P332263

CATALOG NUMBER: S123RDIP-S340D1025U835-4F0-1E-UDD-F4

Luminous Intensity Polar Plot





TEST NUMBER: P332263

CATALOG NUMBER: S123RDIP-S340D1025U835-4F0-1E-UDD-F4

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 | 101 | 101 | 101 | 101 | 90 | 90 | 90 | 90 | 70 | 70 | 70 | 51 | 51 | 51 | 34 | 34 | 34 | 26 |
| 1 | 93 | 88 | 85 | 81 | 82 | 79 | 76 | 73 | 61 | 59 | 58 | 45 | 44 | 43 | 30 | 30 | 29 | 22 |
| 2 | 84 | 77 | 72 | 67 | 75 | 69 | 64 | 60 | 54 | 51 | 48 | 40 | 38 | 36 | 27 | 26 | 25 | 19 |
| 3 | 77 | 68 | 61 | 56 | 68 | 61 | 55 | 50 | 48 | 44 | 40 | 35 | 33 | 31 | 24 | 22 | 21 | 16 |
| 4 | 70 | 60 | 53 | 47 | 63 | 54 | 48 | 43 | 42 | 38 | 34 | 32 | 29 | 26 | 21 | 20 | 18 | 14 |
| 5 | 65 | 54 | 46 | 40 | 57 | 48 | 42 | 37 | 38 | 33 | 30 | 28 | 25 | 23 | 19 | 17 | 16 | 12 |
| 6 | 59 | 48 | 40 | 35 | 53 | 43 | 37 | 32 | 34 | 29 | 26 | 26 | 22 | 20 | 18 | 16 | 14 | 11 |
| 7 | 55 | 43 | 36 | 30 | 49 | 39 | 32 | 28 | 31 | 26 | 23 | 23 | 20 | 18 | 16 | 14 | 13 | 10 |
| 8 | 51 | 39 | 32 | 27 | 45 | 35 | 29 | 24 | 28 | 23 | 20 | 21 | 18 | 16 | 15 | 13 | 11 | 9 |
| 9 | 47 | 36 | 28 | 24 | 42 | 32 | 26 | 22 | 26 | 21 | 18 | 19 | 16 | 14 | 14 | 12 | 10 | 8 |
| 10 | 44 | 32 | 26 | 21 | 39 | 29 | 23 | 19 | 23 | 19 | 16 | 18 | 15 | 13 | 13 | 11 | 9 | 7 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 6184 | 6184 | 6184 |
| 5° | 6207 | 6122 | 6158 |
| 10° | 6172 | 6045 | 6025 |
| 15° | 6107 | 5904 | 5841 |
| 20° | 6015 | 5727 | 5593 |
| 25° | 5922 | 5529 | 5352 |
| 30° | 5797 | 5299 | 5009 |
| 35° | 5670 | 5070 | 4696 |
| 40° | 5552 | 4799 | 4308 |
| 45° | 5398 | 4532 | 3958 |
| 50° | 5228 | 4228 | 3565 |
| 55° | 5054 | 3883 | 3200 |
| 60° | 4895 | 3511 | 2799 |
| 65° | 4689 | 3110 | 2397 |
| 70° | 4428 | 2609 | 1936 |
| 75° | 4051 | 2054 | 1822 |
| 80° | 3608 | 1822 | 1674 |
| 85° | 3051 | 1606 | 1494 |



TEST NUMBER: P332263

CATALOG NUMBER: S123RDIP-S340D1025U835-4F0-1E-UDD-F4

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 54.0 | 1.1 |
| 10°-20° | 150.1 | 3.0 |
| 20°-30° | 216.1 | 4.3 |
| 30°-40° | 243.5 | 4.9 |
| 40°-50° | 232.9 | 4.6 |
| 50°-60° | 190.7 | 3.8 |
| 60°-70° | 128.7 | 2.6 |
| 70°-80° | 64.7 | 1.3 |
| 80°-90° | 20.9 | 0.4 |
| 90°-100° | 274.4 | 5.5 |
| 100°-110° | 777.0 | 15.5 |
| 110°-120° | 764.4 | 15.3 |
| 120°-130° | 609.7 | 12.2 |
| 130°-140° | 480.7 | 9.6 |
| 140°-150° | 358.8 | 7.2 |
| 150°-160° | 250.1 | 5.0 |
| 160°-170° | 146.9 | 2.9 |
| 170°-180° | 47.8 | 1.0 |
| 0°-30° | 420.2 | 8.4 |
| 0°-40° | 663.7 | 13.2 |
| 0°-60° | 1087.3 | 21.7 |
| 0°-90° | 1301.7 | 26.0 |
| 90°-120° | 1815.8 | 36.2 |
| 90°-150° | 3265.1 | 65.2 |
| 90°-180° | 3710.0 | 74.0 |
| 0°-180° | 5011.5 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|-----|-------|-----|-------|------|------|
| 0° | 574 | 574 | 574 | 574 | 574 | |
| 5° | 574 | 572 | 567 | 570 | 570 | 54 |
| 15° | 548 | 542 | 530 | 527 | 524 | 154 |
| 25° | 499 | 486 | 466 | 456 | 451 | 229 |
| 35° | 432 | 414 | 386 | 366 | 357 | 270 |
| 45° | 355 | 333 | 298 | 272 | 260 | 273 |
| 55° | 269 | 246 | 207 | 181 | 170 | 241 |
| 65° | 184 | 158 | 122 | 100 | 94 | 182 |
| 75° | 97 | 75 | 49 | 45 | 44 | 104 |
| 85° | 25 | 15 | 13 | 12 | 12 | 28 |
| 90° | 2 | 12 | 25 | 28 | 29 | 4 |
| 95° | 34 | 110 | 592 | 173 | 116 | 37 |
| 105° | 116 | 171 | 802 | 1403 | 1270 | 123 |
| 115° | 205 | 255 | 614 | 1346 | 1544 | 203 |
| 125° | 284 | 336 | 573 | 1038 | 1218 | 252 |
| 135° | 333 | 398 | 565 | 855 | 987 | 258 |
| 145° | 380 | 436 | 558 | 701 | 772 | 238 |
| 155° | 432 | 466 | 540 | 614 | 640 | 199 |
| 165° | 472 | 486 | 517 | 548 | 558 | 133 |
| 175° | 492 | 493 | 496 | 503 | 502 | 47 |
| 180° | 493 | 493 | 493 | 493 | 493 | |



TEST NUMBER: P332263

CATALOG NUMBER: S123RDIP-S340D1025U835-4F0-1E-UDD-F4

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| 0° | 574.5 | 574.5 | 574.5 | 574.5 | 574.5 | 574.5 | 574.5 | 574.5 | 574.5 | 574.5 | 574.5 |
| 2.5° | 576.4 | 576.0 | 575.7 | 575.4 | 575.1 | 574.4 | 573.4 | 572.4 | 571.4 | 570.4 | 571.3 |
| 5° | 574.5 | 574.0 | 573.5 | 573.0 | 572.4 | 571.6 | 570.3 | 569.1 | 567.8 | 566.6 | 567.5 |
| 7.5° | 569.2 | 568.6 | 568.1 | 567.5 | 567.0 | 565.9 | 564.3 | 562.7 | 561.0 | 559.4 | 559.9 |
| 10° | 564.7 | 564.0 | 563.3 | 562.6 | 561.8 | 560.5 | 558.7 | 556.8 | 554.9 | 553.1 | 553.2 |
| 12.5° | 558.4 | 557.6 | 556.8 | 556.0 | 555.2 | 553.6 | 551.3 | 549.1 | 546.8 | 544.5 | 544.4 |
| 15° | 548.0 | 546.8 | 545.7 | 544.5 | 543.4 | 541.4 | 538.5 | 535.6 | 532.7 | 529.8 | 529.3 |
| 17.5° | 534.8 | 533.5 | 532.2 | 530.8 | 529.5 | 527.0 | 523.3 | 519.6 | 516.0 | 512.3 | 511.2 |
| 20° | 525.1 | 523.5 | 521.8 | 520.2 | 518.5 | 515.7 | 511.8 | 507.8 | 503.9 | 500.0 | 498.6 |
| 22.5° | 514.3 | 512.4 | 510.5 | 508.6 | 506.7 | 503.7 | 499.5 | 495.3 | 491.1 | 486.9 | 485.2 |
| 25° | 498.6 | 496.0 | 493.4 | 490.8 | 488.2 | 484.5 | 479.8 | 475.0 | 470.2 | 465.5 | 463.3 |
| 27.5° | 479.5 | 476.6 | 473.7 | 470.9 | 468.0 | 464.0 | 458.7 | 453.3 | 448.0 | 442.7 | 439.7 |
| 30° | 466.4 | 463.3 | 460.2 | 457.1 | 454.0 | 449.5 | 443.7 | 437.9 | 432.1 | 426.3 | 422.8 |
| 32.5° | 453.4 | 449.8 | 446.3 | 442.8 | 439.3 | 434.5 | 428.3 | 422.2 | 416.1 | 409.9 | 406.1 |
| 35° | 431.5 | 427.7 | 424.0 | 420.3 | 416.6 | 411.5 | 405.1 | 398.6 | 392.2 | 385.8 | 381.4 |
| 37.5° | 409.3 | 405.1 | 401.0 | 396.9 | 392.7 | 387.2 | 380.4 | 373.5 | 366.7 | 359.8 | 354.8 |
| 40° | 395.1 | 390.6 | 386.0 | 381.5 | 376.9 | 370.9 | 363.6 | 356.2 | 348.9 | 341.5 | 336.2 |
| 42.5° | 379.1 | 374.5 | 370.0 | 365.4 | 360.9 | 354.8 | 347.2 | 339.6 | 332.0 | 324.4 | 318.5 |
| 45° | 354.6 | 349.9 | 345.3 | 340.6 | 335.9 | 329.6 | 321.7 | 313.7 | 305.7 | 297.7 | 291.8 |
| 47.5° | 330.1 | 325.0 | 319.8 | 314.7 | 309.6 | 303.1 | 295.1 | 287.1 | 279.2 | 271.2 | 264.8 |
| 50° | 312.2 | 307.3 | 302.5 | 297.6 | 292.7 | 286.1 | 277.7 | 269.3 | 260.9 | 252.5 | 246.1 |
| 52.5° | 296.2 | 290.9 | 285.6 | 280.3 | 275.0 | 268.2 | 259.9 | 251.6 | 243.3 | 235.0 | 228.4 |
| 55° | 269.3 | 264.2 | 259.2 | 254.1 | 249.0 | 242.1 | 233.3 | 224.5 | 215.7 | 206.9 | 200.9 |
| 57.5° | 244.5 | 239.0 | 233.5 | 227.9 | 222.4 | 215.2 | 206.4 | 197.5 | 188.7 | 179.9 | 174.2 |
| 60° | 227.4 | 221.7 | 216.0 | 210.3 | 204.6 | 197.5 | 188.9 | 180.3 | 171.7 | 163.1 | 157.5 |
| 62.5° | 210.2 | 204.5 | 198.8 | 193.2 | 187.5 | 180.3 | 171.7 | 163.1 | 154.5 | 145.9 | 140.7 |
| 65° | 184.1 | 178.4 | 172.7 | 167.0 | 161.3 | 154.4 | 146.3 | 138.2 | 130.2 | 122.1 | 117.0 |
| 67.5° | 157.9 | 152.1 | 146.3 | 140.6 | 134.8 | 128.1 | 120.3 | 112.6 | 104.8 | 97.1 | 93.3 |
| 70° | 140.7 | 135.1 | 129.5 | 123.9 | 118.4 | 111.9 | 104.7 | 97.4 | 90.2 | 82.9 | 79.3 |
| 72.5° | 123.6 | 118.1 | 112.6 | 107.0 | 101.5 | 95.5 | 88.9 | 82.3 | 75.7 | 69.1 | 66.2 |
| 75° | 97.4 | 92.4 | 87.4 | 82.5 | 77.5 | 72.2 | 66.5 | 60.8 | 55.1 | 49.4 | 48.4 |
| 77.5° | 73.5 | 69.0 | 64.5 | 60.0 | 55.6 | 51.5 | 47.8 | 44.1 | 40.5 | 36.8 | 36.3 |
| 80° | 58.2 | 54.0 | 49.8 | 45.5 | 41.3 | 38.1 | 35.9 | 33.7 | 31.5 | 29.4 | 29.0 |
| 82.5° | 43.7 | 40.0 | 36.4 | 32.7 | 29.0 | 26.7 | 25.7 | 24.7 | 23.7 | 22.6 | 22.3 |
| 85° | 24.7 | 22.4 | 20.1 | 17.9 | 15.6 | 14.3 | 14.0 | 13.7 | 13.4 | 13.0 | 12.8 |
| 87.5° | 9.3 | 8.8 | 8.3 | 8.0 | 7.5 | 7.4 | 8.0 | 8.6 | 9.2 | 9.8 | 9.6 |
| 90° | 2.0 | 4.0 | 6.0 | 9.0 | 11.0 | 13.0 | 16.0 | 19.0 | 22.0 | 25.0 | 24.0 |
| 92.5° | 12.4 | 18.4 | 26.8 | 34.5 | 42.9 | 57.7 | 83.8 | 126.8 | 168.9 | 153.5 | 115.8 |
| 95° | 33.9 | 36.9 | 47.9 | 64.9 | 90.8 | 129.8 | 214.6 | 363.3 | 527.0 | 591.9 | 480.1 |
| 97.5° | 57.9 | 58.9 | 67.5 | 82.2 | 107.8 | 149.9 | 231.0 | 398.7 | 671.6 | 917.3 | 981.4 |
| 100° | 73.9 | 74.9 | 81.9 | 95.8 | 119.8 | 158.7 | 228.6 | 376.3 | 638.8 | 945.3 | 1141.9 |
| 102.5° | 90.6 | 92.4 | 98.6 | 111.8 | 133.4 | 169.1 | 231.8 | 357.1 | 590.9 | 893.4 | 1149.9 |
| 105° | 115.8 | 118.8 | 124.8 | 136.8 | 155.7 | 186.7 | 240.6 | 343.4 | 532.0 | 802.5 | 1089.0 |
| 107.5° | 142.5 | 145.5 | 151.3 | 163.1 | 180.9 | 209.6 | 256.9 | 342.4 | 494.5 | 722.3 | 982.4 |
| 110° | 161.7 | 164.7 | 169.7 | 180.7 | 197.6 | 225.6 | 270.5 | 346.4 | 480.1 | 676.8 | 915.3 |



TEST NUMBER: P332263

CATALOG NUMBER: S123RDIP-S340D1025U835-4F0-1E-UDD-F4

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 179.3 | 182.3 | 187.3 | 198.2 | 215.2 | 242.4 | 284.1 | 354.4 | 472.1 | 646.4 | 857.0 |
| 115° | 204.6 | 208.6 | 214.6 | 224.6 | 241.6 | 268.5 | 306.4 | 367.3 | 469.1 | 613.9 | 786.6 |
| 117.5° | 230.0 | 234.6 | 239.6 | 248.7 | 267.7 | 292.7 | 330.2 | 384.5 | 470.9 | 594.7 | 744.0 |
| 120° | 247.5 | 250.5 | 255.5 | 265.5 | 284.5 | 309.4 | 345.4 | 397.3 | 474.1 | 585.9 | 721.7 |
| 122.5° | 262.7 | 265.7 | 270.7 | 281.5 | 299.7 | 326.2 | 361.3 | 409.3 | 479.7 | 580.3 | 703.3 |
| 125° | 284.5 | 286.5 | 292.5 | 303.4 | 322.4 | 349.4 | 384.3 | 428.2 | 488.1 | 573.0 | 679.8 |
| 127.5° | 301.1 | 304.0 | 311.4 | 322.6 | 343.6 | 370.5 | 404.3 | 443.8 | 497.7 | 569.4 | 659.0 |
| 130° | 311.4 | 314.4 | 323.4 | 335.4 | 356.3 | 383.3 | 416.2 | 454.2 | 504.1 | 567.0 | 647.8 |
| 132.5° | 319.4 | 323.2 | 333.0 | 347.4 | 368.3 | 394.5 | 426.6 | 463.8 | 508.9 | 566.2 | 637.4 |
| 135° | 333.4 | 337.4 | 348.4 | 363.3 | 384.3 | 411.2 | 442.2 | 476.1 | 516.1 | 565.0 | 623.9 |
| 137.5° | 346.6 | 350.8 | 361.5 | 377.5 | 398.3 | 423.2 | 453.0 | 485.3 | 520.8 | 562.8 | 612.1 |
| 140° | 355.4 | 360.3 | 370.3 | 386.3 | 406.3 | 431.2 | 460.2 | 490.1 | 524.0 | 562.0 | 604.9 |
| 142.5° | 364.9 | 369.1 | 379.9 | 394.3 | 414.2 | 437.6 | 465.8 | 494.9 | 526.4 | 560.4 | 598.5 |
| 145° | 380.3 | 383.3 | 392.3 | 407.3 | 424.2 | 447.2 | 473.1 | 500.1 | 528.0 | 558.0 | 589.9 |
| 147.5° | 395.9 | 397.7 | 406.5 | 419.4 | 435.8 | 455.4 | 479.1 | 503.3 | 528.0 | 554.2 | 581.5 |
| 150° | 406.3 | 407.3 | 415.2 | 428.2 | 442.2 | 460.2 | 483.1 | 504.1 | 528.0 | 551.0 | 575.9 |
| 152.5° | 416.6 | 416.8 | 424.8 | 436.2 | 448.6 | 465.8 | 485.5 | 505.7 | 525.6 | 547.0 | 569.6 |
| 155° | 432.2 | 432.2 | 438.2 | 448.2 | 459.2 | 473.1 | 490.1 | 506.1 | 523.0 | 540.0 | 560.0 |
| 157.5° | 444.6 | 445.4 | 450.2 | 459.0 | 468.3 | 479.1 | 492.7 | 507.1 | 519.7 | 533.8 | 549.2 |
| 160° | 454.2 | 454.2 | 458.2 | 466.1 | 473.1 | 483.1 | 495.1 | 507.1 | 518.1 | 529.0 | 542.0 |
| 162.5° | 461.4 | 461.4 | 464.6 | 470.9 | 477.1 | 485.5 | 495.9 | 506.3 | 514.9 | 524.2 | 534.8 |
| 165° | 472.1 | 471.1 | 473.1 | 478.1 | 482.1 | 489.1 | 497.1 | 504.1 | 510.1 | 517.1 | 525.0 |
| 167.5° | 480.3 | 479.1 | 480.1 | 483.9 | 486.7 | 491.1 | 496.9 | 502.5 | 505.3 | 509.9 | 515.7 |
| 170° | 485.1 | 483.1 | 484.1 | 487.1 | 489.1 | 491.1 | 496.1 | 500.1 | 502.1 | 505.1 | 510.1 |
| 172.5° | 488.3 | 487.1 | 487.3 | 489.5 | 490.7 | 491.9 | 496.1 | 499.3 | 499.7 | 501.1 | 504.5 |
| 175° | 492.1 | 491.1 | 490.1 | 492.1 | 492.1 | 493.1 | 495.1 | 497.1 | 496.1 | 496.1 | 498.1 |
| 177.5° | 493.9 | 493.1 | 492.3 | 493.1 | 493.1 | 493.1 | 493.9 | 495.5 | 493.9 | 493.1 | 493.9 |
| 180° | 493.1 | 493.1 | 493.1 | 493.1 | 493.1 | 493.1 | 493.1 | 493.1 | 493.1 | 493.1 | 493.1 |



TEST NUMBER: P332263

CATALOG NUMBER: S123RDIP-S340D1025U835-4F0-1E-UDD-F4

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 574.5 | 574.5 | 574.5 | 574.5 | 574.5 | 574.5 | 574.5 | 574.5 |
| 2.5° | 572.2 | 573.1 | 574.1 | 574.4 | 574.3 | 574.1 | 573.9 | 573.8 |
| 5° | 568.5 | 569.4 | 570.3 | 570.7 | 570.5 | 570.3 | 570.1 | 569.9 |
| 7.5° | 560.5 | 561.0 | 561.5 | 561.6 | 561.2 | 560.9 | 560.5 | 560.2 |
| 10° | 553.3 | 553.4 | 553.5 | 553.3 | 552.8 | 552.3 | 551.7 | 551.2 |
| 12.5° | 544.4 | 544.3 | 544.3 | 543.9 | 543.3 | 542.7 | 542.1 | 541.5 |
| 15° | 528.7 | 528.2 | 527.7 | 527.1 | 526.4 | 525.6 | 524.9 | 524.2 |
| 17.5° | 510.1 | 509.0 | 507.9 | 506.8 | 505.7 | 504.6 | 503.6 | 502.5 |
| 20° | 497.3 | 495.9 | 494.6 | 493.3 | 492.0 | 490.8 | 489.6 | 488.3 |
| 22.5° | 483.6 | 481.9 | 480.2 | 478.8 | 477.6 | 476.5 | 475.3 | 474.2 |
| 25° | 461.1 | 459.0 | 456.8 | 455.1 | 454.0 | 452.9 | 451.7 | 450.6 |
| 27.5° | 436.7 | 433.7 | 430.7 | 428.3 | 426.5 | 424.8 | 423.1 | 421.3 |
| 30° | 419.3 | 415.8 | 412.3 | 409.7 | 408.0 | 406.4 | 404.7 | 403.0 |
| 32.5° | 402.2 | 398.4 | 394.5 | 391.7 | 390.0 | 388.3 | 386.5 | 384.8 |
| 35° | 376.9 | 372.4 | 368.0 | 364.8 | 363.0 | 361.1 | 359.2 | 357.4 |
| 37.5° | 349.7 | 344.6 | 339.6 | 335.9 | 333.6 | 331.3 | 329.0 | 326.7 |
| 40° | 330.8 | 325.4 | 320.0 | 316.1 | 313.7 | 311.4 | 309.0 | 306.6 |
| 42.5° | 312.6 | 306.8 | 300.9 | 296.9 | 294.7 | 292.6 | 290.5 | 288.3 |
| 45° | 285.9 | 280.0 | 274.1 | 269.9 | 267.5 | 265.0 | 262.5 | 260.0 |
| 47.5° | 258.3 | 251.9 | 245.5 | 241.2 | 239.0 | 236.8 | 234.5 | 232.3 |
| 50° | 239.7 | 233.3 | 226.9 | 222.5 | 220.1 | 217.7 | 215.3 | 212.9 |
| 52.5° | 221.7 | 215.0 | 208.4 | 204.0 | 201.8 | 199.7 | 197.6 | 195.4 |
| 55° | 194.9 | 188.9 | 182.9 | 178.8 | 176.8 | 174.7 | 172.6 | 170.5 |
| 57.5° | 168.5 | 162.8 | 157.2 | 153.4 | 151.7 | 149.9 | 148.2 | 146.4 |
| 60° | 151.9 | 146.3 | 140.7 | 137.0 | 135.3 | 133.5 | 131.8 | 130.0 |
| 62.5° | 135.4 | 130.2 | 124.9 | 121.3 | 119.5 | 117.7 | 115.8 | 114.0 |
| 65° | 111.9 | 106.9 | 101.8 | 98.7 | 97.5 | 96.4 | 95.3 | 94.1 |
| 67.5° | 89.5 | 85.7 | 81.9 | 79.4 | 78.2 | 77.0 | 75.8 | 74.6 |
| 70° | 75.7 | 72.1 | 68.4 | 66.1 | 64.9 | 63.8 | 62.6 | 61.5 |
| 72.5° | 63.2 | 60.3 | 57.3 | 55.6 | 55.1 | 54.6 | 54.2 | 53.7 |
| 75° | 47.3 | 46.3 | 45.2 | 44.6 | 44.4 | 44.2 | 44.0 | 43.8 |
| 77.5° | 35.7 | 35.1 | 34.6 | 34.2 | 34.0 | 33.8 | 33.6 | 33.4 |
| 80° | 28.7 | 28.4 | 28.1 | 27.9 | 27.6 | 27.4 | 27.2 | 27.0 |
| 82.5° | 22.0 | 21.7 | 21.4 | 21.2 | 21.2 | 21.1 | 21.1 | 21.1 |
| 85° | 12.6 | 12.4 | 12.2 | 12.1 | 12.1 | 12.1 | 12.1 | 12.1 |
| 87.5° | 9.7 | 9.8 | 9.9 | 10.2 | 9.9 | 10.1 | 10.2 | 9.9 |
| 90° | 25.0 | 26.0 | 27.0 | 28.9 | 27.9 | 28.9 | 29.9 | 28.9 |
| 92.5° | 84.0 | 66.7 | 58.9 | 53.7 | 51.9 | 48.9 | 49.9 | 48.1 |
| 95° | 359.3 | 243.6 | 190.7 | 154.7 | 135.8 | 126.8 | 119.8 | 115.8 |
| 97.5° | 895.8 | 717.5 | 588.7 | 469.3 | 395.7 | 350.8 | 323.8 | 315.2 |
| 100° | 1176.9 | 1096.0 | 979.2 | 837.5 | 736.7 | 663.8 | 624.9 | 625.9 |
| 102.5° | 1270.3 | 1267.7 | 1199.6 | 1109.8 | 1031.3 | 973.6 | 941.1 | 918.1 |
| 105° | 1297.6 | 1397.5 | 1416.4 | 1390.5 | 1344.5 | 1306.6 | 1274.7 | 1269.7 |
| 107.5° | 1219.0 | 1381.1 | 1468.5 | 1504.1 | 1504.9 | 1492.1 | 1481.3 | 1472.1 |
| 110° | 1143.9 | 1327.6 | 1453.3 | 1523.2 | 1551.2 | 1559.2 | 1557.2 | 1555.2 |



TEST NUMBER: P332263

CATALOG NUMBER: S123RDIP-S340D1025U835-4F0-1E-UDD-F4

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 1069.6 | 1257.3 | 1398.2 | 1488.1 | 1539.2 | 1563.9 | 1571.5 | 1571.9 |
| 115° | 971.2 | 1144.9 | 1291.6 | 1400.4 | 1475.3 | 1519.2 | 1539.2 | 1544.2 |
| 117.5° | 900.0 | 1049.9 | 1181.6 | 1292.0 | 1370.1 | 1420.4 | 1449.2 | 1455.9 |
| 120° | 862.4 | 997.2 | 1117.0 | 1217.8 | 1296.6 | 1352.5 | 1376.5 | 1382.5 |
| 122.5° | 832.9 | 954.9 | 1065.9 | 1159.5 | 1229.6 | 1279.9 | 1306.2 | 1313.8 |
| 125° | 793.6 | 902.4 | 998.2 | 1078.0 | 1141.9 | 1185.8 | 1210.8 | 1217.8 |
| 127.5° | 759.2 | 856.2 | 942.7 | 1015.3 | 1072.2 | 1109.8 | 1132.3 | 1138.7 |
| 130° | 737.7 | 827.5 | 908.3 | 976.2 | 1029.1 | 1065.1 | 1086.0 | 1094.0 |
| 132.5° | 717.7 | 800.3 | 875.6 | 940.3 | 990.0 | 1025.9 | 1044.5 | 1050.1 |
| 135° | 690.7 | 761.6 | 826.5 | 883.4 | 932.3 | 962.2 | 980.2 | 987.2 |
| 137.5° | 666.2 | 724.3 | 780.2 | 829.5 | 870.6 | 901.0 | 916.1 | 920.7 |
| 140° | 651.8 | 702.7 | 750.6 | 793.6 | 831.5 | 859.4 | 875.4 | 874.4 |
| 142.5° | 638.2 | 682.0 | 723.5 | 760.8 | 793.2 | 817.9 | 832.3 | 831.3 |
| 145° | 621.9 | 654.8 | 686.7 | 715.7 | 740.6 | 761.6 | 769.6 | 771.6 |
| 147.5° | 608.5 | 634.6 | 660.4 | 681.0 | 699.9 | 714.1 | 721.7 | 722.5 |
| 150° | 598.9 | 621.9 | 642.8 | 661.8 | 676.8 | 687.7 | 693.7 | 693.7 |
| 152.5° | 590.1 | 609.9 | 628.5 | 644.2 | 656.0 | 666.2 | 669.8 | 669.8 |
| 155° | 576.9 | 592.9 | 607.9 | 619.9 | 628.9 | 636.8 | 638.8 | 639.8 |
| 157.5° | 563.0 | 576.3 | 587.9 | 597.3 | 605.1 | 611.1 | 612.7 | 612.5 |
| 160° | 555.0 | 566.0 | 575.9 | 582.9 | 589.9 | 595.9 | 595.9 | 594.9 |
| 162.5° | 545.4 | 554.8 | 564.0 | 570.2 | 574.8 | 579.9 | 579.9 | 578.9 |
| 165° | 533.0 | 539.0 | 546.0 | 551.0 | 555.0 | 559.0 | 558.0 | 558.0 |
| 167.5° | 522.2 | 526.8 | 530.8 | 534.4 | 536.2 | 539.0 | 538.0 | 538.0 |
| 170° | 515.1 | 518.1 | 522.0 | 524.0 | 525.0 | 527.0 | 526.0 | 526.0 |
| 172.5° | 508.7 | 510.9 | 514.1 | 515.3 | 515.5 | 517.5 | 515.7 | 514.9 |
| 175° | 500.1 | 501.1 | 503.1 | 503.1 | 503.1 | 504.1 | 503.1 | 502.1 |
| 177.5° | 494.7 | 495.5 | 496.3 | 496.3 | 495.5 | 496.3 | 494.7 | 494.7 |
| 180° | 493.1 | 493.1 | 493.1 | 493.1 | 493.1 | 493.1 | 493.1 | 493.1 |

(END OF REPORT)