

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: P332269-840

Luminaire Tested: **S123RDIP-S340D1195U840-4F0-1E-UDD-F4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332269-840
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-S340D1195U840-4F0-1E-UDD-F4
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 340 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER, REGRESSED
HOUSING
UPLIGHT 1195 LUMENS PER FOOT, BATWING OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5675.9 lumens
Efficiency: N/A
Efficacy: 134.5 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

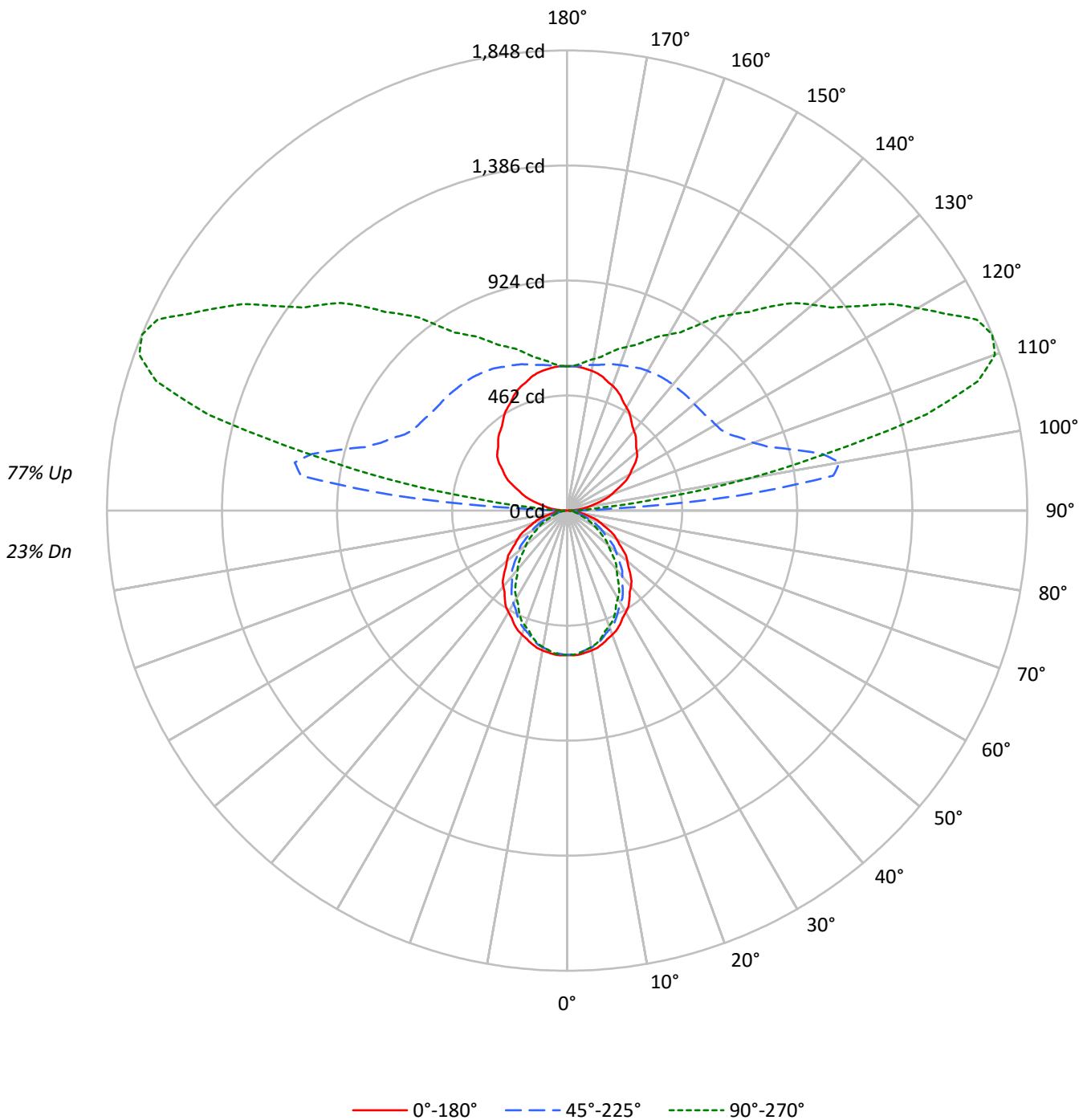
Input Watts (W): 42.2
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P332269-840

CATALOG NUMBER: S123RDIP-S340D1195U840-4F0-1E-UDD-F4

Luminous Intensity Polar Plot





TEST NUMBER: P332269-840

CATALOG NUMBER: S123RDIP-S340D1195U840-4F0-1E-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 | 89 | 89 | 89 | 89 | 68 | 68 | 68 | 49 | 49 | 49 | 31 | 31 | 31 | 23 |
| 1 | 92 | 88 | 84 | 81 | 81 | 78 | 75 | 72 | 60 | 58 | 56 | 43 | 42 | 41 | 28 | 27 | 27 | 20 |
| 2 | 84 | 77 | 71 | 66 | 74 | 68 | 64 | 60 | 53 | 49 | 47 | 38 | 36 | 34 | 25 | 24 | 23 | 17 |
| 3 | 76 | 68 | 61 | 55 | 68 | 60 | 54 | 50 | 47 | 43 | 39 | 34 | 31 | 29 | 22 | 21 | 19 | 14 |
| 4 | 70 | 60 | 52 | 47 | 62 | 53 | 47 | 42 | 41 | 37 | 33 | 30 | 27 | 25 | 20 | 18 | 17 | 12 |
| 5 | 64 | 53 | 45 | 40 | 57 | 47 | 41 | 36 | 37 | 32 | 29 | 27 | 24 | 22 | 18 | 16 | 15 | 11 |
| 6 | 59 | 47 | 40 | 34 | 52 | 43 | 36 | 31 | 33 | 28 | 25 | 24 | 21 | 19 | 16 | 14 | 13 | 10 |
| 7 | 54 | 43 | 35 | 30 | 48 | 38 | 32 | 27 | 30 | 25 | 22 | 22 | 19 | 17 | 15 | 13 | 12 | 9 |
| 8 | 50 | 39 | 31 | 26 | 45 | 35 | 28 | 24 | 27 | 23 | 19 | 20 | 17 | 15 | 14 | 12 | 10 | 8 |
| 9 | 47 | 35 | 28 | 23 | 41 | 32 | 25 | 21 | 25 | 20 | 17 | 19 | 15 | 13 | 13 | 11 | 9 | 7 |
| 10 | 44 | 32 | 25 | 21 | 39 | 29 | 23 | 19 | 23 | 18 | 15 | 17 | 14 | 12 | 12 | 10 | 8 | 6 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 6245 | 6245 | 6245 |
| 5° | 6269 | 6183 | 6218 |
| 10° | 6233 | 6105 | 6084 |
| 15° | 6167 | 5962 | 5899 |
| 20° | 6074 | 5783 | 5648 |
| 25° | 5980 | 5583 | 5404 |
| 30° | 5854 | 5351 | 5059 |
| 35° | 5727 | 5119 | 4742 |
| 40° | 5606 | 4846 | 4350 |
| 45° | 5451 | 4576 | 3997 |
| 50° | 5280 | 4270 | 3600 |
| 55° | 5104 | 3920 | 3232 |
| 60° | 4943 | 3546 | 2827 |
| 65° | 4735 | 3140 | 2420 |
| 70° | 4472 | 2634 | 1954 |
| 75° | 4092 | 2075 | 1838 |
| 80° | 3645 | 1841 | 1692 |
| 85° | 3075 | 1618 | 1507 |



TEST NUMBER: P332269-840

CATALOG NUMBER: S123RDIP-S340D1195U840-4F0-1E-UDD-F4

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 54.5 | 1.0 |
| 10°-20° | 151.6 | 2.7 |
| 20°-30° | 218.3 | 3.8 |
| 30°-40° | 245.9 | 4.3 |
| 40°-50° | 235.2 | 4.1 |
| 50°-60° | 192.6 | 3.4 |
| 60°-70° | 130.0 | 2.3 |
| 70°-80° | 65.4 | 1.2 |
| 80°-90° | 21.8 | 0.4 |
| 90°-100° | 322.6 | 5.7 |
| 100°-110° | 913.4 | 16.1 |
| 110°-120° | 898.5 | 15.8 |
| 120°-130° | 716.7 | 12.6 |
| 130°-140° | 565.1 | 10.0 |
| 140°-150° | 421.7 | 7.4 |
| 150°-160° | 294.0 | 5.2 |
| 160°-170° | 172.7 | 3.0 |
| 170°-180° | 56.2 | 1.0 |
| 0°-30° | 424.3 | 7.5 |
| 0°-40° | 670.2 | 11.8 |
| 0°-60° | 1098.1 | 19.3 |
| 0°-90° | 1315.2 | 23.2 |
| 90°-120° | 2134.4 | 37.6 |
| 90°-150° | 3837.9 | 67.6 |
| 90°-180° | 4361.0 | 76.8 |
| 0°-180° | 5675.9 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|-----|-------|-----|-------|------|------|
| 0° | 580 | 580 | 580 | 580 | 580 | |
| 5° | 580 | 578 | 572 | 576 | 576 | 55 |
| 15° | 553 | 548 | 535 | 533 | 529 | 156 |
| 25° | 504 | 491 | 470 | 460 | 455 | 231 |
| 35° | 436 | 418 | 390 | 370 | 361 | 273 |
| 45° | 358 | 336 | 301 | 275 | 263 | 276 |
| 55° | 272 | 248 | 209 | 183 | 172 | 244 |
| 65° | 186 | 159 | 123 | 101 | 95 | 184 |
| 75° | 98 | 76 | 50 | 45 | 44 | 105 |
| 85° | 25 | 15 | 13 | 12 | 12 | 28 |
| 90° | 2 | 14 | 29 | 33 | 34 | 4 |
| 95° | 40 | 130 | 696 | 203 | 136 | 43 |
| 105° | 136 | 201 | 943 | 1650 | 1492 | 145 |
| 115° | 240 | 300 | 722 | 1582 | 1815 | 238 |
| 125° | 334 | 395 | 674 | 1220 | 1432 | 297 |
| 135° | 392 | 468 | 664 | 1005 | 1160 | 303 |
| 145° | 447 | 512 | 656 | 824 | 907 | 280 |
| 155° | 508 | 548 | 635 | 722 | 752 | 234 |
| 165° | 555 | 571 | 608 | 645 | 656 | 156 |
| 175° | 578 | 579 | 583 | 591 | 590 | 55 |
| 180° | 580 | 580 | 580 | 580 | 580 | |



TEST NUMBER: P332269-840

CATALOG NUMBER: S123RDIP-S340D1195U840-4F0-1E-UDD-F4

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|
| 0° | 580.2 | 580.2 | 580.2 | 580.2 | 580.2 | 580.2 | 580.2 | 580.2 | 580.2 | 580.2 | 580.2 |
| 2.5° | 582.1 | 581.7 | 581.4 | 581.1 | 580.8 | 580.1 | 579.1 | 578.0 | 577.0 | 576.0 | 576.9 |
| 5° | 580.2 | 579.7 | 579.2 | 578.7 | 578.0 | 577.2 | 575.9 | 574.7 | 573.4 | 572.2 | 573.1 |
| 7.5° | 574.8 | 574.2 | 573.7 | 573.1 | 572.6 | 571.5 | 569.9 | 568.3 | 566.5 | 564.9 | 565.4 |
| 10° | 570.3 | 569.6 | 568.9 | 568.2 | 567.3 | 566.0 | 564.2 | 562.3 | 560.4 | 558.6 | 558.7 |
| 12.5° | 563.9 | 563.1 | 562.3 | 561.5 | 560.7 | 559.1 | 556.7 | 554.5 | 552.2 | 549.9 | 549.8 |
| 15° | 553.4 | 552.2 | 551.1 | 549.9 | 548.8 | 546.7 | 543.8 | 540.9 | 538.0 | 535.0 | 534.5 |
| 17.5° | 540.1 | 538.8 | 537.5 | 536.0 | 534.7 | 532.2 | 528.5 | 524.7 | 521.1 | 517.4 | 516.2 |
| 20° | 530.3 | 528.7 | 526.9 | 525.3 | 523.6 | 520.8 | 516.8 | 512.8 | 508.9 | 504.9 | 503.5 |
| 22.5° | 519.4 | 517.5 | 515.5 | 513.6 | 511.7 | 508.7 | 504.4 | 500.2 | 495.9 | 491.7 | 490.0 |
| 25° | 503.5 | 500.9 | 498.3 | 495.6 | 493.0 | 489.3 | 484.5 | 479.7 | 474.8 | 470.1 | 467.9 |
| 27.5° | 484.2 | 481.3 | 478.4 | 475.5 | 472.6 | 468.6 | 463.2 | 457.8 | 452.4 | 447.1 | 444.0 |
| 30° | 471.0 | 467.9 | 464.7 | 461.6 | 458.5 | 453.9 | 448.1 | 442.2 | 436.4 | 430.5 | 427.0 |
| 32.5° | 457.9 | 454.2 | 450.7 | 447.2 | 443.6 | 438.8 | 432.5 | 426.4 | 420.2 | 413.9 | 410.1 |
| 35° | 435.8 | 431.9 | 428.2 | 424.4 | 420.7 | 415.6 | 409.1 | 402.5 | 396.1 | 389.6 | 385.2 |
| 37.5° | 413.3 | 409.1 | 405.0 | 400.8 | 396.6 | 391.0 | 384.2 | 377.2 | 370.3 | 363.3 | 358.3 |
| 40° | 399.0 | 394.5 | 389.8 | 385.3 | 380.6 | 374.6 | 367.2 | 359.7 | 352.3 | 344.9 | 339.5 |
| 42.5° | 382.8 | 378.2 | 373.7 | 369.0 | 364.5 | 358.3 | 350.6 | 343.0 | 335.3 | 327.6 | 321.6 |
| 45° | 358.1 | 353.4 | 348.7 | 344.0 | 339.2 | 332.9 | 324.9 | 316.8 | 308.7 | 300.6 | 294.7 |
| 47.5° | 333.4 | 328.2 | 323.0 | 317.8 | 312.7 | 306.1 | 298.0 | 289.9 | 282.0 | 273.9 | 267.4 |
| 50° | 315.3 | 310.3 | 305.5 | 300.5 | 295.6 | 288.9 | 280.4 | 272.0 | 263.5 | 255.0 | 248.5 |
| 52.5° | 299.1 | 293.8 | 288.4 | 283.1 | 277.7 | 270.8 | 262.5 | 254.1 | 245.7 | 237.3 | 230.7 |
| 55° | 272.0 | 266.8 | 261.8 | 256.6 | 251.5 | 244.5 | 235.6 | 226.7 | 217.8 | 208.9 | 202.9 |
| 57.5° | 246.9 | 241.4 | 235.8 | 230.1 | 224.6 | 217.3 | 208.4 | 199.4 | 190.6 | 181.7 | 175.9 |
| 60° | 229.6 | 223.9 | 218.1 | 212.4 | 206.6 | 199.4 | 190.8 | 182.1 | 173.4 | 164.7 | 159.1 |
| 62.5° | 212.3 | 206.5 | 200.8 | 195.1 | 189.3 | 182.1 | 173.4 | 164.7 | 156.0 | 147.3 | 142.1 |
| 65° | 185.9 | 180.2 | 174.4 | 168.6 | 162.9 | 155.9 | 147.7 | 139.6 | 131.5 | 123.3 | 118.2 |
| 67.5° | 159.5 | 153.6 | 147.7 | 142.0 | 136.1 | 129.4 | 121.5 | 113.7 | 105.8 | 98.1 | 94.2 |
| 70° | 142.1 | 136.4 | 130.8 | 125.1 | 119.6 | 113.0 | 105.7 | 98.4 | 91.1 | 83.7 | 80.1 |
| 72.5° | 124.8 | 119.3 | 113.7 | 108.1 | 102.5 | 96.4 | 89.8 | 83.1 | 76.4 | 69.8 | 66.9 |
| 75° | 98.4 | 93.3 | 88.3 | 83.3 | 78.3 | 72.9 | 67.2 | 61.4 | 55.6 | 49.9 | 48.9 |
| 77.5° | 74.2 | 69.7 | 65.1 | 60.6 | 56.1 | 52.0 | 48.3 | 44.5 | 40.9 | 37.2 | 36.7 |
| 80° | 58.8 | 54.5 | 50.3 | 45.9 | 41.7 | 38.5 | 36.3 | 34.0 | 31.8 | 29.7 | 29.3 |
| 82.5° | 44.1 | 40.4 | 36.8 | 33.0 | 29.3 | 27.0 | 26.0 | 24.9 | 23.9 | 22.8 | 22.5 |
| 85° | 24.9 | 22.6 | 20.3 | 18.1 | 15.8 | 14.4 | 14.1 | 13.8 | 13.5 | 13.1 | 12.9 |
| 87.5° | 9.5 | 9.1 | 8.6 | 8.4 | 8.0 | 8.0 | 8.7 | 9.4 | 10.1 | 10.8 | 10.4 |
| 90° | 2.3 | 4.6 | 7.1 | 10.6 | 12.9 | 15.2 | 18.8 | 22.3 | 25.9 | 29.3 | 28.2 |
| 92.5° | 14.5 | 21.6 | 31.4 | 40.6 | 50.5 | 67.9 | 98.6 | 149.1 | 198.5 | 180.5 | 136.1 |
| 95° | 39.9 | 43.4 | 56.4 | 76.2 | 106.7 | 152.5 | 252.3 | 427.1 | 619.6 | 695.8 | 564.3 |
| 97.5° | 68.1 | 69.2 | 79.3 | 96.6 | 126.7 | 176.2 | 271.6 | 468.6 | 789.4 | 1078.2 | 1153.6 |
| 100° | 86.8 | 88.0 | 96.2 | 112.6 | 140.8 | 186.5 | 268.7 | 442.3 | 750.9 | 1111.2 | 1342.3 |
| 102.5° | 106.5 | 108.7 | 115.9 | 131.4 | 156.7 | 198.7 | 272.5 | 419.8 | 694.6 | 1050.2 | 1351.6 |
| 105° | 136.1 | 139.7 | 146.6 | 160.8 | 183.0 | 219.4 | 282.8 | 403.6 | 625.4 | 943.3 | 1280.1 |
| 107.5° | 167.5 | 171.1 | 177.8 | 191.7 | 212.6 | 246.4 | 302.1 | 402.4 | 581.3 | 849.0 | 1154.8 |
| 110° | 190.1 | 193.6 | 199.4 | 212.4 | 232.3 | 265.2 | 318.0 | 407.2 | 564.3 | 795.5 | 1075.9 |



TEST NUMBER: P332269-840

CATALOG NUMBER: S123RDIP-S340D1195U840-4F0-1E-UDD-F4

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| 112.5° | 210.8 | 214.3 | 220.2 | 233.0 | 253.0 | 284.9 | 334.0 | 416.6 | 555.0 | 759.8 | 1007.4 |
| 115° | 240.5 | 245.2 | 252.3 | 264.0 | 284.0 | 315.6 | 360.2 | 431.8 | 551.5 | 721.5 | 924.5 |
| 117.5° | 270.3 | 275.7 | 281.6 | 292.4 | 314.7 | 344.1 | 388.1 | 451.9 | 553.6 | 699.0 | 874.5 |
| 120° | 290.9 | 294.5 | 300.3 | 312.1 | 334.4 | 363.8 | 406.0 | 467.0 | 557.3 | 688.7 | 848.3 |
| 122.5° | 308.8 | 312.4 | 318.2 | 330.8 | 352.2 | 383.4 | 424.7 | 481.1 | 563.9 | 682.2 | 826.7 |
| 125° | 334.4 | 336.8 | 343.8 | 356.7 | 379.0 | 410.6 | 451.7 | 503.3 | 573.7 | 673.5 | 799.0 |
| 127.5° | 353.9 | 357.4 | 366.1 | 379.2 | 403.8 | 435.6 | 475.1 | 521.7 | 585.0 | 669.2 | 774.7 |
| 130° | 366.1 | 369.6 | 380.1 | 394.3 | 418.9 | 450.5 | 489.3 | 533.8 | 592.5 | 666.4 | 761.4 |
| 132.5° | 375.5 | 379.9 | 391.4 | 408.3 | 432.9 | 463.7 | 501.5 | 545.1 | 598.1 | 665.5 | 749.3 |
| 135° | 391.9 | 396.6 | 409.5 | 427.1 | 451.7 | 483.4 | 519.8 | 559.7 | 606.6 | 664.1 | 733.4 |
| 137.5° | 407.4 | 412.3 | 425.0 | 443.7 | 468.2 | 497.5 | 532.4 | 570.5 | 612.3 | 661.5 | 719.4 |
| 140° | 417.7 | 423.5 | 435.3 | 454.0 | 477.6 | 506.9 | 540.9 | 576.1 | 616.0 | 660.6 | 711.0 |
| 142.5° | 429.0 | 433.9 | 446.6 | 463.4 | 487.0 | 514.4 | 547.4 | 581.7 | 618.8 | 658.7 | 703.5 |
| 145° | 447.1 | 450.5 | 461.1 | 478.7 | 498.7 | 525.6 | 556.1 | 587.8 | 620.7 | 655.9 | 693.5 |
| 147.5° | 465.3 | 467.5 | 477.8 | 493.0 | 512.3 | 535.2 | 563.2 | 591.6 | 620.7 | 651.5 | 683.6 |
| 150° | 477.6 | 478.7 | 488.1 | 503.3 | 519.8 | 540.9 | 567.8 | 592.5 | 620.7 | 647.6 | 677.0 |
| 152.5° | 489.8 | 490.0 | 499.4 | 512.7 | 527.3 | 547.4 | 570.7 | 594.4 | 617.8 | 643.0 | 669.5 |
| 155° | 508.1 | 508.1 | 515.1 | 526.8 | 539.7 | 556.1 | 576.1 | 594.9 | 614.8 | 634.8 | 658.2 |
| 157.5° | 522.6 | 523.5 | 529.2 | 539.5 | 550.5 | 563.2 | 579.2 | 596.0 | 610.9 | 627.5 | 645.5 |
| 160° | 533.8 | 533.8 | 538.6 | 548.0 | 556.1 | 567.8 | 582.0 | 596.0 | 608.9 | 621.9 | 637.1 |
| 162.5° | 542.3 | 542.3 | 546.0 | 553.6 | 560.9 | 570.7 | 582.9 | 595.1 | 605.2 | 616.2 | 628.6 |
| 165° | 555.0 | 553.8 | 556.1 | 562.0 | 566.7 | 574.9 | 584.3 | 592.5 | 599.6 | 607.7 | 617.1 |
| 167.5° | 564.6 | 563.2 | 564.3 | 568.9 | 572.1 | 577.2 | 584.1 | 590.7 | 593.9 | 599.4 | 606.1 |
| 170° | 570.3 | 567.8 | 569.1 | 572.6 | 574.9 | 577.2 | 583.1 | 587.8 | 590.2 | 593.7 | 599.6 |
| 172.5° | 574.0 | 572.6 | 572.8 | 575.4 | 576.8 | 578.2 | 583.1 | 586.9 | 587.3 | 589.0 | 593.0 |
| 175° | 578.5 | 577.2 | 576.1 | 578.5 | 578.5 | 579.7 | 582.0 | 584.3 | 583.1 | 583.1 | 585.5 |
| 177.5° | 580.6 | 579.7 | 578.7 | 579.7 | 579.7 | 579.7 | 580.6 | 582.4 | 580.6 | 579.7 | 580.6 |
| 180° | 579.7 | 579.7 | 579.7 | 579.7 | 579.7 | 579.7 | 579.7 | 579.7 | 579.7 | 579.7 | 579.7 |



TEST NUMBER: P332269-840

CATALOG NUMBER: S123RDIP-S340D1195U840-4F0-1E-UDD-F4

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 580.2 | 580.2 | 580.2 | 580.2 | 580.2 | 580.2 | 580.2 | 580.2 |
| 2.5° | 577.8 | 578.8 | 579.8 | 580.1 | 580.0 | 579.8 | 579.6 | 579.5 |
| 5° | 574.1 | 575.0 | 575.9 | 576.3 | 576.1 | 575.9 | 575.7 | 575.5 |
| 7.5° | 566.0 | 566.5 | 567.0 | 567.1 | 566.7 | 566.4 | 566.0 | 565.7 |
| 10° | 558.8 | 558.9 | 559.0 | 558.8 | 558.3 | 557.7 | 557.1 | 556.6 |
| 12.5° | 549.8 | 549.7 | 549.7 | 549.3 | 548.7 | 548.1 | 547.4 | 546.8 |
| 15° | 533.9 | 533.4 | 532.9 | 532.3 | 531.6 | 530.8 | 530.1 | 529.4 |
| 17.5° | 515.1 | 514.0 | 512.9 | 511.8 | 510.7 | 509.6 | 508.6 | 507.5 |
| 20° | 502.2 | 500.8 | 499.5 | 498.2 | 496.9 | 495.6 | 494.4 | 493.1 |
| 22.5° | 488.4 | 486.7 | 484.9 | 483.5 | 482.3 | 481.2 | 480.0 | 478.9 |
| 25° | 465.6 | 463.5 | 461.3 | 459.6 | 458.5 | 457.4 | 456.2 | 455.0 |
| 27.5° | 441.0 | 438.0 | 434.9 | 432.5 | 430.7 | 429.0 | 427.3 | 425.5 |
| 30° | 423.4 | 419.9 | 416.4 | 413.7 | 412.0 | 410.4 | 408.7 | 407.0 |
| 32.5° | 406.2 | 402.3 | 398.4 | 395.6 | 393.8 | 392.1 | 390.3 | 388.6 |
| 35° | 380.6 | 376.1 | 371.6 | 368.4 | 366.6 | 364.7 | 362.7 | 360.9 |
| 37.5° | 353.1 | 348.0 | 343.0 | 339.2 | 336.9 | 334.6 | 332.2 | 329.9 |
| 40° | 334.1 | 328.6 | 323.2 | 319.2 | 316.8 | 314.5 | 312.0 | 309.6 |
| 42.5° | 315.7 | 309.8 | 303.9 | 299.8 | 297.6 | 295.5 | 293.4 | 291.1 |
| 45° | 288.7 | 282.8 | 276.8 | 272.6 | 270.1 | 267.6 | 265.1 | 262.6 |
| 47.5° | 260.8 | 254.4 | 247.9 | 243.6 | 241.4 | 239.1 | 236.8 | 234.6 |
| 50° | 242.1 | 235.6 | 229.1 | 224.7 | 222.3 | 219.8 | 217.4 | 215.0 |
| 52.5° | 223.9 | 217.1 | 210.5 | 206.0 | 203.8 | 201.7 | 199.5 | 197.3 |
| 55° | 196.8 | 190.8 | 184.7 | 180.6 | 178.5 | 176.4 | 174.3 | 172.2 |
| 57.5° | 170.2 | 164.4 | 158.8 | 154.9 | 153.2 | 151.4 | 149.7 | 147.8 |
| 60° | 153.4 | 147.7 | 142.1 | 138.4 | 136.6 | 134.8 | 133.1 | 131.3 |
| 62.5° | 136.7 | 131.5 | 126.1 | 122.5 | 120.7 | 118.9 | 116.9 | 115.1 |
| 65° | 113.0 | 108.0 | 102.8 | 99.7 | 98.5 | 97.4 | 96.2 | 95.0 |
| 67.5° | 90.4 | 86.5 | 82.7 | 80.2 | 79.0 | 77.8 | 76.5 | 75.3 |
| 70° | 76.4 | 72.8 | 69.1 | 66.8 | 65.5 | 64.4 | 63.2 | 62.1 |
| 72.5° | 63.8 | 60.9 | 57.9 | 56.1 | 55.6 | 55.1 | 54.7 | 54.2 |
| 75° | 47.8 | 46.8 | 45.6 | 45.0 | 44.8 | 44.6 | 44.4 | 44.2 |
| 77.5° | 36.1 | 35.4 | 34.9 | 34.5 | 34.3 | 34.1 | 33.9 | 33.7 |
| 80° | 29.0 | 28.7 | 28.4 | 28.2 | 27.9 | 27.7 | 27.5 | 27.3 |
| 82.5° | 22.2 | 21.9 | 21.6 | 21.4 | 21.4 | 21.3 | 21.3 | 21.3 |
| 85° | 12.7 | 12.5 | 12.3 | 12.2 | 12.2 | 12.2 | 12.2 | 12.2 |
| 87.5° | 10.6 | 10.7 | 10.9 | 11.3 | 11.0 | 11.1 | 11.3 | 10.9 |
| 90° | 29.3 | 30.5 | 31.7 | 34.0 | 32.8 | 34.0 | 35.2 | 34.0 |
| 92.5° | 98.8 | 78.4 | 69.2 | 63.1 | 61.0 | 57.5 | 58.7 | 56.6 |
| 95° | 422.4 | 286.3 | 224.1 | 181.9 | 159.6 | 149.1 | 140.8 | 136.1 |
| 97.5° | 1052.9 | 843.3 | 692.1 | 551.7 | 465.1 | 412.3 | 380.6 | 370.5 |
| 100° | 1383.3 | 1288.3 | 1151.0 | 984.4 | 865.9 | 780.2 | 734.5 | 735.7 |
| 102.5° | 1493.2 | 1490.1 | 1410.1 | 1304.4 | 1212.2 | 1144.5 | 1106.2 | 1079.2 |
| 105° | 1525.3 | 1642.6 | 1665.0 | 1634.5 | 1580.4 | 1535.9 | 1498.3 | 1492.5 |
| 107.5° | 1432.8 | 1623.4 | 1726.2 | 1768.0 | 1768.9 | 1753.8 | 1741.2 | 1730.4 |
| 110° | 1344.6 | 1560.5 | 1708.4 | 1790.5 | 1823.3 | 1832.7 | 1830.4 | 1828.1 |



TEST NUMBER: P332269-840

CATALOG NUMBER: S123RDIP-S340D1195U840-4F0-1E-UDD-F4

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 1257.3 | 1477.9 | 1643.6 | 1749.2 | 1809.3 | 1838.4 | 1847.2 | 1847.8 |
| 115° | 1141.7 | 1345.7 | 1518.2 | 1646.2 | 1734.1 | 1785.7 | 1809.3 | 1815.1 |
| 117.5° | 1057.8 | 1234.1 | 1389.0 | 1518.7 | 1610.5 | 1669.6 | 1703.4 | 1711.4 |
| 120° | 1013.7 | 1172.2 | 1312.9 | 1431.5 | 1524.1 | 1589.8 | 1618.0 | 1625.1 |
| 122.5° | 979.0 | 1122.4 | 1252.8 | 1362.9 | 1445.3 | 1504.4 | 1535.4 | 1544.3 |
| 125° | 932.8 | 1060.7 | 1173.3 | 1267.2 | 1342.3 | 1393.9 | 1423.2 | 1431.5 |
| 127.5° | 892.4 | 1006.4 | 1108.0 | 1193.5 | 1260.4 | 1304.4 | 1331.0 | 1338.5 |
| 130° | 867.1 | 972.7 | 1067.7 | 1147.5 | 1209.7 | 1251.9 | 1276.6 | 1286.0 |
| 132.5° | 843.6 | 940.8 | 1029.3 | 1105.3 | 1163.7 | 1205.9 | 1227.8 | 1234.4 |
| 135° | 811.9 | 895.2 | 971.5 | 1038.3 | 1095.9 | 1131.0 | 1152.2 | 1160.4 |
| 137.5° | 783.0 | 851.3 | 917.1 | 975.0 | 1023.4 | 1059.0 | 1076.8 | 1082.3 |
| 140° | 766.2 | 826.0 | 882.3 | 932.8 | 977.3 | 1010.3 | 1029.0 | 1027.8 |
| 142.5° | 750.2 | 801.6 | 850.4 | 894.3 | 932.3 | 961.4 | 978.3 | 977.1 |
| 145° | 730.9 | 769.7 | 807.3 | 841.2 | 870.6 | 895.2 | 904.6 | 907.0 |
| 147.5° | 715.3 | 746.0 | 776.3 | 800.4 | 822.7 | 839.4 | 848.3 | 849.2 |
| 150° | 704.0 | 730.9 | 755.6 | 777.9 | 795.5 | 808.4 | 815.5 | 815.5 |
| 152.5° | 693.7 | 716.9 | 738.7 | 757.3 | 771.1 | 783.0 | 787.3 | 787.3 |
| 155° | 678.1 | 696.9 | 714.6 | 728.6 | 739.2 | 748.6 | 750.9 | 752.0 |
| 157.5° | 661.8 | 677.5 | 691.1 | 702.1 | 711.2 | 718.3 | 720.1 | 719.9 |
| 160° | 652.4 | 665.3 | 677.0 | 685.2 | 693.5 | 700.4 | 700.4 | 699.3 |
| 162.5° | 641.1 | 652.2 | 662.9 | 670.1 | 675.6 | 681.7 | 681.7 | 680.5 |
| 165° | 626.5 | 633.6 | 641.8 | 647.6 | 652.4 | 657.0 | 655.9 | 655.9 |
| 167.5° | 613.9 | 619.2 | 624.0 | 628.2 | 630.3 | 633.6 | 632.4 | 632.4 |
| 170° | 605.4 | 608.9 | 613.6 | 616.0 | 617.1 | 619.6 | 618.3 | 618.3 |
| 172.5° | 597.9 | 600.5 | 604.3 | 605.6 | 605.9 | 608.2 | 606.1 | 605.2 |
| 175° | 587.8 | 589.0 | 591.4 | 591.4 | 591.4 | 592.5 | 591.4 | 590.2 |
| 177.5° | 581.5 | 582.4 | 583.4 | 583.4 | 582.4 | 583.4 | 581.5 | 581.5 |
| 180° | 579.7 | 579.7 | 579.7 | 579.7 | 579.7 | 579.7 | 579.7 | 579.7 |

(END OF REPORT)