

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: P334040

Luminaire Tested: **S123RDP-S340D930-4F0-1E-UDD-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P334040
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-30)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S123RDP-S340D930-4F0-1E-UDD-A
Description: DEFINE 3 REGRESSED DIRECT LED LUMINAIRE, ASYMMETRIC DIFFUSER
PENDANT/SURFACE/WALL MOUNT, 340 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

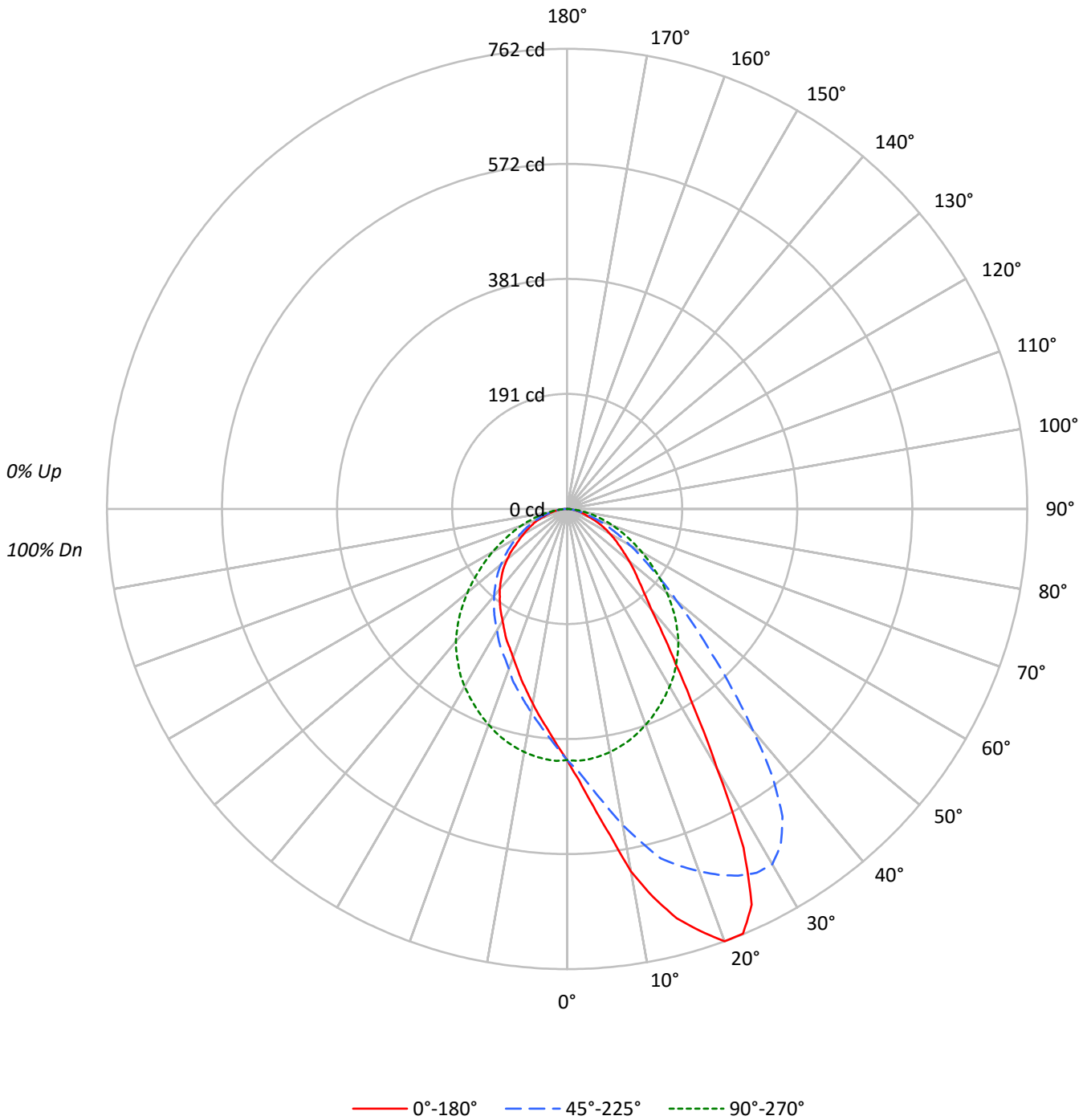
Lumens per Lamp: N/A
Luminaire Lumens: 1035.3 lumens
Efficiency: N/A
Efficacy: 89.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.22 / 1.35
Luminous Opening: Rectangular (W 4' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 11.6
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: P334040
CATALOG NUMBER: S123RDP-S340D930-4F0-1E-UDD-A

Luminous Intensity Polar Plot





TEST NUMBER: P334040

CATALOG NUMBER: S123RDP-S340D930-4F0-1E-UDD-A

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 | 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 | 100 | 100 | 100 | 100 | 100 | 100 | | |
| 1 | 110 | 106 | 102 | 99 | 108 | 104 | 100 | 97 | 100 | 97 | 94 | 96 | 93 | 91 | 92 | 90 | 89 | 87 | 87 | 87 | 87 | 87 | 87 | 87 | | |
| 2 | 101 | 94 | 88 | 83 | 99 | 92 | 87 | 82 | 89 | 84 | 80 | 86 | 82 | 78 | 83 | 79 | 77 | 74 | 74 | 74 | 74 | 74 | 74 | 74 | | |
| 3 | 93 | 84 | 76 | 71 | 91 | 82 | 75 | 70 | 79 | 74 | 69 | 77 | 72 | 68 | 74 | 70 | 66 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | | |
| 4 | 86 | 75 | 67 | 61 | 84 | 74 | 66 | 61 | 71 | 65 | 60 | 69 | 64 | 59 | 67 | 62 | 58 | 56 | 56 | 56 | 56 | 56 | 56 | 56 | | |
| 5 | 80 | 68 | 60 | 53 | 78 | 67 | 59 | 53 | 65 | 58 | 53 | 63 | 57 | 52 | 61 | 56 | 52 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | | |
| 6 | 74 | 62 | 53 | 47 | 72 | 61 | 53 | 47 | 59 | 52 | 47 | 57 | 51 | 46 | 56 | 50 | 46 | 44 | 44 | 44 | 44 | 44 | 44 | 44 | | |
| 7 | 69 | 56 | 48 | 42 | 67 | 55 | 48 | 42 | 54 | 47 | 42 | 53 | 46 | 42 | 51 | 46 | 41 | 39 | 39 | 39 | 39 | 39 | 39 | 39 | | |
| 8 | 64 | 52 | 44 | 38 | 63 | 51 | 43 | 38 | 50 | 43 | 38 | 48 | 42 | 38 | 47 | 42 | 37 | 36 | 36 | 36 | 36 | 36 | 36 | 36 | | |
| 9 | 60 | 48 | 40 | 35 | 59 | 47 | 40 | 35 | 46 | 39 | 34 | 45 | 39 | 34 | 44 | 38 | 34 | 32 | 32 | 32 | 32 | 32 | 32 | 32 | | |
| 10 | 57 | 44 | 37 | 32 | 55 | 44 | 36 | 32 | 43 | 36 | 31 | 42 | 36 | 31 | 41 | 35 | 31 | 29 | 29 | 29 | 29 | 29 | 29 | 29 | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° |
|-----|------|------|------|
| 0° | 4476 | 4476 | 4476 |
| 5° | 5336 | 4495 | 3958 |
| 10° | 6661 | 4468 | 3576 |
| 15° | 7818 | 4423 | 3261 |
| 20° | 8726 | 4355 | 2993 |
| 25° | 8587 | 4283 | 2829 |
| 30° | 6172 | 4217 | 2659 |
| 35° | 4121 | 4130 | 2549 |
| 40° | 3036 | 4027 | 2436 |
| 45° | 2547 | 3845 | 2324 |
| 50° | 2247 | 3607 | 2170 |
| 55° | 1970 | 3333 | 1957 |
| 60° | 1755 | 3074 | 1793 |
| 65° | 1541 | 2791 | 1668 |
| 70° | 1209 | 2543 | 1523 |
| 75° | 1065 | 2221 | 1393 |
| 80° | 930 | 1884 | 1370 |
| 85° | 753 | 1519 | 1445 |



TEST NUMBER: P334040

CATALOG NUMBER: S123RDP-S340D930-4F0-1E-UDD-A

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 40.8 | 3.9 |
| 10°-20° | 127.8 | 12.3 |
| 20°-30° | 201.3 | 19.4 |
| 30°-40° | 209.4 | 20.2 |
| 40°-50° | 179.1 | 17.3 |
| 50°-60° | 136.5 | 13.2 |
| 60°-70° | 87.5 | 8.4 |
| 70°-80° | 41.9 | 4.0 |
| 80°-90° | 11.0 | 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° | 370.0 | 35.7 |
| 0°-40° | 579.3 | 56.0 |
| 0°-60° | 894.9 | 86.4 |
| 0°-90° | 1035.3 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 1035.3 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0° | 416 | 416 | 416 | 416 | 416 | |
| 5° | 494 | 463 | 416 | 376 | 366 | 51 |
| 15° | 702 | 599 | 397 | 312 | 293 | 199 |
| 25° | 723 | 670 | 361 | 258 | 238 | 314 |
| 35° | 314 | 622 | 314 | 210 | 194 | 204 |
| 45° | 167 | 338 | 253 | 166 | 153 | 131 |
| 55° | 105 | 168 | 178 | 120 | 104 | 95 |
| 65° | 60 | 83 | 110 | 75 | 66 | 60 |
| 75° | 26 | 30 | 53 | 38 | 34 | 27 |
| 85° | 6 | 7 | 12 | 11 | 12 | 7 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P334040

CATALOG NUMBER: S123RDP-S340D930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 415.8 | 415.8 | 415.8 | 415.8 | 415.8 | 415.8 | 415.8 | 415.8 | 415.8 | 415.8 | 415.8 |
| 2.5° | 449.6 | 450.3 | 448.0 | 447.7 | 445.0 | 444.3 | 444.3 | 440.5 | 438.2 | 435.2 | 433.4 |
| 5° | 493.8 | 496.6 | 495.2 | 492.0 | 486.6 | 485.4 | 482.0 | 476.7 | 470.6 | 463.1 | 459.6 |
| 7.5° | 544.3 | 550.2 | 549.1 | 544.1 | 538.4 | 534.9 | 525.4 | 517.8 | 506.2 | 495.7 | 487.5 |
| 10° | 609.4 | 605.4 | 602.2 | 597.3 | 592.2 | 583.8 | 573.8 | 560.1 | 544.3 | 531.8 | 518.0 |
| 12.5° | 658.2 | 658.4 | 654.1 | 649.1 | 641.3 | 633.5 | 620.7 | 603.2 | 584.2 | 564.8 | 548.4 |
| 15° | 701.6 | 702.7 | 700.0 | 694.9 | 684.6 | 670.5 | 652.0 | 645.0 | 618.7 | 599.1 | 579.5 |
| 17.5° | 732.6 | 732.8 | 732.3 | 725.3 | 714.1 | 704.5 | 687.2 | 671.0 | 646.1 | 619.6 | 593.4 |
| 20° | 761.8 | 760.0 | 760.4 | 752.4 | 744.5 | 733.0 | 716.2 | 689.7 | 670.1 | 638.3 | 611.0 |
| 22.5° | 761.1 | 761.1 | 762.7 | 761.3 | 756.1 | 747.9 | 735.6 | 714.3 | 687.9 | 655.7 | 624.2 |
| 25° | 723.0 | 721.6 | 729.9 | 732.3 | 741.3 | 742.9 | 739.0 | 726.7 | 703.1 | 670.0 | 632.1 |
| 27.5° | 632.2 | 627.1 | 644.5 | 661.8 | 684.7 | 699.3 | 714.3 | 717.7 | 706.5 | 679.4 | 639.7 |
| 30° | 496.6 | 513.3 | 521.2 | 549.3 | 580.6 | 618.0 | 650.7 | 681.9 | 689.5 | 679.2 | 648.1 |
| 32.5° | 391.2 | 405.3 | 411.5 | 434.7 | 463.3 | 508.7 | 561.9 | 609.3 | 646.3 | 658.8 | 643.1 |
| 35° | 313.6 | 313.8 | 328.8 | 339.4 | 366.5 | 411.5 | 459.2 | 518.3 | 577.1 | 621.6 | 626.2 |
| 37.5° | 258.8 | 259.5 | 269.1 | 279.8 | 301.5 | 326.8 | 371.1 | 421.0 | 491.6 | 558.0 | 592.5 |
| 40° | 216.1 | 217.7 | 224.4 | 235.0 | 249.5 | 267.5 | 300.3 | 346.6 | 403.2 | 479.2 | 541.3 |
| 42.5° | 188.7 | 191.5 | 194.2 | 201.7 | 209.3 | 225.9 | 250.8 | 283.9 | 334.1 | 404.9 | 479.0 |
| 45° | 167.3 | 168.7 | 171.4 | 175.1 | 183.3 | 195.1 | 212.9 | 236.9 | 279.6 | 337.5 | 409.2 |
| 47.5° | 150.9 | 150.0 | 153.1 | 156.3 | 161.8 | 170.3 | 182.8 | 203.6 | 235.7 | 284.1 | 346.2 |
| 50° | 134.2 | 134.0 | 136.0 | 138.3 | 143.5 | 149.3 | 159.1 | 173.9 | 198.1 | 236.6 | 292.3 |
| 52.5° | 118.5 | 119.4 | 120.7 | 123.7 | 127.1 | 131.5 | 140.1 | 149.7 | 169.6 | 201.5 | 245.6 |
| 55° | 105.0 | 105.5 | 107.5 | 109.1 | 111.8 | 116.6 | 122.1 | 131.0 | 145.2 | 168.4 | 206.6 |
| 57.5° | 93.3 | 93.1 | 95.0 | 95.2 | 98.6 | 102.7 | 107.2 | 114.1 | 125.0 | 143.3 | 170.0 |
| 60° | 81.5 | 81.0 | 82.6 | 83.8 | 85.4 | 88.6 | 92.2 | 99.0 | 107.2 | 119.8 | 141.9 |
| 62.5° | 70.8 | 70.7 | 71.7 | 73.0 | 74.2 | 77.1 | 79.9 | 84.7 | 90.8 | 100.9 | 117.3 |
| 65° | 60.5 | 61.1 | 61.6 | 62.1 | 62.8 | 64.6 | 67.5 | 71.0 | 75.5 | 82.9 | 95.6 |
| 67.5° | 49.8 | 50.6 | 50.7 | 52.0 | 53.4 | 54.3 | 55.9 | 59.3 | 62.7 | 69.4 | 76.9 |
| 70° | 38.4 | 38.3 | 38.4 | 39.0 | 40.9 | 42.9 | 45.2 | 47.5 | 49.5 | 53.9 | 60.0 |
| 72.5° | 31.7 | 31.3 | 31.9 | 31.9 | 32.6 | 32.8 | 34.0 | 36.1 | 38.8 | 41.5 | 45.4 |
| 75° | 25.6 | 25.6 | 25.6 | 25.6 | 26.3 | 26.7 | 27.2 | 27.8 | 28.7 | 30.1 | 33.3 |
| 77.5° | 19.9 | 19.9 | 20.3 | 20.5 | 20.6 | 20.8 | 21.2 | 21.7 | 22.1 | 22.8 | 24.4 |
| 80° | 15.0 | 15.1 | 15.0 | 15.1 | 15.1 | 15.5 | 15.7 | 16.2 | 16.4 | 17.3 | 17.8 |
| 82.5° | 10.3 | 10.1 | 10.3 | 10.5 | 10.5 | 10.9 | 10.9 | 11.2 | 11.2 | 11.6 | 12.1 |
| 85° | 6.1 | 5.7 | 6.1 | 5.9 | 6.2 | 5.9 | 6.1 | 6.4 | 6.4 | 6.6 | 7.3 |
| 87.5° | 1.8 | 2.1 | 1.8 | 2.0 | 2.0 | 2.1 | 2.1 | 2.1 | 2.5 | 2.3 | 2.5 |
| 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: P334040

CATALOG NUMBER: S123RDP-S340D930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° | 95° | 100° | 105° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 415.8 | 415.8 | 415.8 | 415.8 | 415.8 | 415.8 | 415.8 | 415.8 | 415.8 | 415.8 | 415.8 |
| 2.5° | 432.7 | 432.2 | 429.7 | 426.8 | 423.1 | 420.6 | 418.6 | 417.6 | 414.4 | 410.5 | 407.8 |
| 5° | 455.8 | 450.5 | 444.8 | 437.9 | 431.5 | 424.9 | 420.8 | 416.0 | 410.1 | 403.5 | 398.9 |
| 7.5° | 478.8 | 469.5 | 459.4 | 448.9 | 438.2 | 428.8 | 420.1 | 412.9 | 404.0 | 395.0 | 388.7 |
| 10° | 506.0 | 490.7 | 474.9 | 458.7 | 443.9 | 430.0 | 419.4 | 408.8 | 397.6 | 386.8 | 378.6 |
| 12.5° | 530.8 | 509.4 | 490.5 | 469.7 | 449.8 | 432.5 | 416.0 | 403.2 | 389.1 | 377.3 | 367.7 |
| 15° | 550.9 | 530.2 | 508.2 | 477.9 | 452.8 | 431.8 | 413.1 | 396.9 | 380.5 | 366.3 | 357.2 |
| 17.5° | 571.9 | 540.6 | 511.6 | 488.1 | 455.3 | 429.9 | 408.0 | 389.1 | 371.3 | 356.7 | 345.3 |
| 20° | 584.0 | 553.9 | 521.7 | 489.5 | 457.4 | 428.1 | 401.6 | 380.2 | 361.5 | 344.4 | 334.1 |
| 22.5° | 591.3 | 556.2 | 521.9 | 486.6 | 452.1 | 421.3 | 395.1 | 371.1 | 350.5 | 334.4 | 321.1 |
| 25° | 596.6 | 556.1 | 518.7 | 484.5 | 449.8 | 416.7 | 385.5 | 360.6 | 338.7 | 321.5 | 307.9 |
| 27.5° | 600.9 | 553.9 | 511.0 | 473.8 | 438.8 | 405.1 | 377.0 | 350.3 | 328.4 | 310.4 | 295.6 |
| 30° | 602.0 | 551.2 | 501.9 | 460.8 | 425.0 | 394.8 | 364.5 | 339.3 | 315.8 | 296.4 | 282.8 |
| 32.5° | 603.4 | 544.7 | 489.7 | 445.3 | 408.5 | 378.6 | 351.9 | 328.0 | 303.8 | 284.8 | 270.9 |
| 35° | 598.4 | 543.1 | 477.2 | 427.0 | 390.3 | 361.3 | 336.6 | 314.3 | 290.7 | 272.2 | 258.1 |
| 37.5° | 583.3 | 534.3 | 464.7 | 406.5 | 368.6 | 341.9 | 321.3 | 301.0 | 279.1 | 258.8 | 245.8 |
| 40° | 557.8 | 520.1 | 449.8 | 388.2 | 348.2 | 320.6 | 302.4 | 286.6 | 265.6 | 246.9 | 232.6 |
| 42.5° | 519.9 | 500.7 | 435.5 | 369.0 | 325.0 | 298.7 | 284.1 | 269.5 | 251.7 | 232.6 | 219.5 |
| 45° | 471.9 | 474.9 | 415.1 | 348.3 | 304.0 | 277.3 | 262.9 | 252.6 | 236.2 | 220.5 | 206.8 |
| 47.5° | 413.5 | 438.8 | 393.2 | 326.6 | 281.2 | 256.1 | 243.5 | 234.1 | 222.7 | 206.5 | 193.8 |
| 50° | 356.5 | 396.9 | 365.8 | 304.7 | 260.0 | 235.1 | 222.7 | 215.4 | 205.8 | 193.7 | 181.7 |
| 52.5° | 304.0 | 348.2 | 332.7 | 280.3 | 237.1 | 214.8 | 202.7 | 197.0 | 189.9 | 178.7 | 168.2 |
| 55° | 256.5 | 300.5 | 296.2 | 255.8 | 214.1 | 193.7 | 184.4 | 177.6 | 172.5 | 163.9 | 155.4 |
| 57.5° | 215.2 | 257.7 | 258.6 | 228.5 | 194.2 | 173.4 | 165.4 | 160.0 | 156.5 | 149.7 | 141.3 |
| 60° | 176.6 | 214.8 | 222.3 | 201.0 | 172.5 | 154.7 | 146.8 | 142.8 | 140.1 | 134.9 | 128.9 |
| 62.5° | 144.5 | 175.7 | 184.4 | 170.5 | 151.7 | 135.3 | 129.6 | 125.7 | 124.1 | 119.8 | 114.6 |
| 65° | 115.5 | 142.6 | 150.8 | 142.2 | 131.4 | 118.0 | 113.0 | 109.6 | 108.0 | 105.5 | 101.6 |
| 67.5° | 91.1 | 112.1 | 121.0 | 113.9 | 109.8 | 100.4 | 97.0 | 95.0 | 93.6 | 91.8 | 88.5 |
| 70° | 69.8 | 84.4 | 93.6 | 92.0 | 88.8 | 84.4 | 82.1 | 80.8 | 79.4 | 78.0 | 75.1 |
| 72.5° | 52.7 | 61.6 | 70.1 | 71.6 | 69.1 | 69.1 | 67.1 | 66.7 | 66.0 | 64.3 | 63.0 |
| 75° | 37.2 | 44.1 | 50.2 | 52.5 | 53.6 | 54.5 | 53.6 | 53.4 | 53.2 | 51.8 | 50.9 |
| 77.5° | 25.8 | 30.3 | 34.4 | 38.4 | 39.9 | 41.1 | 41.3 | 42.0 | 41.5 | 40.6 | 40.2 |
| 80° | 18.7 | 19.6 | 22.2 | 25.6 | 28.3 | 29.4 | 30.1 | 30.4 | 30.3 | 30.1 | 29.4 |
| 82.5° | 12.3 | 13.0 | 13.9 | 16.0 | 18.2 | 20.1 | 20.5 | 20.3 | 20.8 | 21.0 | 20.5 |
| 85° | 7.3 | 7.5 | 7.8 | 8.2 | 9.4 | 11.4 | 11.9 | 12.3 | 12.6 | 12.6 | 11.6 |
| 87.5° | 2.8 | 2.7 | 3.0 | 3.0 | 3.6 | 3.7 | 4.8 | 5.7 | 5.9 | 5.2 | 5.2 |
| 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: P334040

CATALOG NUMBER: S123RDP-S340D930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

| | 110° | 115° | 120° | 125° | 130° | 135° | 140° | 145° | 150° | 155° | 160° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 415.8 | 415.8 | 415.8 | 415.8 | 415.8 | 415.8 | 415.8 | 415.8 | 415.8 | 415.8 | 415.8 |
| 2.5° | 406.9 | 404.6 | 403.0 | 399.4 | 397.1 | 394.6 | 392.1 | 393.7 | 393.5 | 393.4 | 393.4 |
| 5° | 395.0 | 390.9 | 387.1 | 382.3 | 379.3 | 375.6 | 372.7 | 372.4 | 373.1 | 370.6 | 369.2 |
| 7.5° | 383.8 | 378.4 | 373.1 | 368.1 | 362.6 | 358.3 | 355.6 | 354.6 | 352.6 | 351.0 | 349.6 |
| 10° | 371.8 | 365.2 | 360.1 | 353.5 | 347.4 | 342.1 | 338.7 | 336.4 | 335.2 | 333.9 | 331.6 |
| 12.5° | 359.5 | 353.1 | 346.2 | 338.5 | 332.8 | 326.4 | 324.1 | 321.5 | 318.8 | 317.4 | 314.0 |
| 15° | 347.6 | 339.3 | 332.3 | 324.5 | 318.1 | 312.0 | 308.5 | 303.3 | 302.6 | 300.8 | 297.6 |
| 17.5° | 336.1 | 326.8 | 316.6 | 311.3 | 304.9 | 298.5 | 292.8 | 291.2 | 285.9 | 284.1 | 281.1 |
| 20° | 321.8 | 313.4 | 306.1 | 298.5 | 288.0 | 282.1 | 277.8 | 275.5 | 271.4 | 268.9 | 267.2 |
| 22.5° | 309.5 | 301.0 | 292.3 | 283.0 | 274.8 | 268.1 | 265.2 | 261.3 | 259.5 | 255.8 | 253.8 |
| 25° | 298.0 | 288.7 | 278.6 | 268.9 | 262.7 | 257.7 | 252.8 | 249.5 | 246.3 | 244.7 | 241.2 |
| 27.5° | 283.9 | 274.6 | 264.9 | 257.4 | 250.3 | 245.3 | 240.5 | 237.8 | 233.7 | 231.0 | 229.1 |
| 30° | 272.7 | 261.3 | 253.1 | 246.5 | 236.7 | 232.1 | 228.7 | 225.2 | 222.3 | 219.5 | 217.5 |
| 32.5° | 259.7 | 249.5 | 241.9 | 233.3 | 226.4 | 221.2 | 216.6 | 213.6 | 211.3 | 208.6 | 206.6 |
| 35° | 246.0 | 237.3 | 229.3 | 221.1 | 215.5 | 210.4 | 205.2 | 202.6 | 200.2 | 197.8 | 196.0 |
| 37.5° | 233.5 | 225.3 | 217.9 | 210.0 | 203.3 | 198.8 | 194.5 | 192.8 | 189.6 | 187.8 | 186.0 |
| 40° | 222.1 | 214.1 | 205.9 | 198.5 | 191.3 | 188.1 | 184.4 | 181.4 | 178.5 | 177.3 | 175.3 |
| 42.5° | 209.7 | 201.7 | 195.1 | 186.9 | 181.4 | 176.7 | 173.4 | 170.0 | 168.0 | 166.1 | 165.2 |
| 45° | 197.4 | 190.3 | 183.5 | 175.5 | 170.0 | 166.2 | 162.3 | 159.3 | 157.3 | 156.1 | 154.1 |
| 47.5° | 185.6 | 178.3 | 171.6 | 164.5 | 159.1 | 154.9 | 150.8 | 148.8 | 146.1 | 144.7 | 143.3 |
| 50° | 172.7 | 166.2 | 158.9 | 152.5 | 147.2 | 142.9 | 139.7 | 137.1 | 134.7 | 132.8 | 131.9 |
| 52.5° | 160.7 | 153.8 | 147.7 | 141.9 | 136.2 | 131.2 | 128.3 | 125.5 | 123.9 | 121.6 | 120.5 |
| 55° | 147.4 | 140.8 | 135.5 | 129.6 | 124.1 | 120.0 | 116.4 | 113.9 | 112.1 | 109.6 | 108.2 |
| 57.5° | 135.1 | 129.4 | 122.8 | 117.7 | 111.8 | 108.6 | 105.5 | 102.0 | 99.9 | 97.9 | 96.5 |
| 60° | 122.6 | 115.9 | 110.4 | 105.5 | 100.6 | 96.1 | 93.4 | 90.8 | 88.5 | 86.5 | 85.3 |
| 62.5° | 109.6 | 103.9 | 98.8 | 93.4 | 89.0 | 85.3 | 82.1 | 79.9 | 78.0 | 76.9 | 75.6 |
| 65° | 96.3 | 91.7 | 86.3 | 82.1 | 77.8 | 74.9 | 72.4 | 70.5 | 69.1 | 68.2 | 67.1 |
| 67.5° | 84.0 | 79.6 | 74.8 | 70.3 | 67.5 | 65.1 | 63.4 | 61.6 | 60.9 | 59.8 | 59.1 |
| 70° | 72.1 | 67.5 | 63.4 | 60.2 | 57.3 | 55.7 | 54.6 | 53.4 | 52.7 | 51.3 | 50.6 |
| 72.5° | 59.1 | 56.1 | 53.4 | 50.9 | 48.8 | 47.3 | 45.9 | 44.3 | 43.1 | 41.5 | 40.8 |
| 75° | 48.6 | 45.6 | 43.3 | 41.5 | 40.0 | 38.1 | 36.1 | 34.5 | 34.0 | 33.5 | 33.3 |
| 77.5° | 37.9 | 36.0 | 34.2 | 32.8 | 30.8 | 29.0 | 28.5 | 28.1 | 27.9 | 27.6 | 27.6 |
| 80° | 28.3 | 26.5 | 25.3 | 23.5 | 22.4 | 22.4 | 22.4 | 22.1 | 22.2 | 22.2 | 22.2 |
| 82.5° | 19.2 | 17.6 | 17.1 | 16.7 | 16.7 | 16.9 | 16.9 | 17.1 | 16.9 | 17.3 | 17.1 |
| 85° | 10.9 | 11.0 | 11.4 | 11.2 | 11.4 | 11.4 | 11.7 | 11.6 | 11.7 | 11.4 | 11.7 |
| 87.5° | 5.0 | 5.5 | 5.7 | 5.9 | 6.1 | 5.9 | 6.1 | 6.1 | 6.2 | 6.2 | 6.2 |
| 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: P334040

CATALOG NUMBER: S123RDP-S340D930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

| | 165° | 170° | 175° | 180° |
|-------|-------|-------|-------|-------|
| 0° | 415.8 | 415.8 | 415.8 | 415.8 |
| 2.5° | 391.2 | 391.1 | 391.2 | 390.5 |
| 5° | 368.6 | 368.4 | 367.9 | 366.3 |
| 7.5° | 348.2 | 347.8 | 346.4 | 346.7 |
| 10° | 330.4 | 330.5 | 328.4 | 327.2 |
| 12.5° | 313.1 | 312.0 | 310.4 | 309.0 |
| 15° | 298.3 | 296.5 | 292.3 | 292.6 |
| 17.5° | 280.0 | 278.6 | 278.4 | 275.9 |
| 20° | 264.3 | 263.4 | 263.8 | 261.3 |
| 22.5° | 252.0 | 251.1 | 249.2 | 248.8 |
| 25° | 240.1 | 238.7 | 237.3 | 238.2 |
| 27.5° | 228.0 | 226.9 | 225.3 | 225.3 |
| 30° | 216.6 | 215.5 | 214.8 | 213.9 |
| 32.5° | 205.0 | 205.0 | 203.6 | 203.6 |
| 35° | 195.3 | 194.2 | 193.8 | 194.0 |
| 37.5° | 185.8 | 184.4 | 183.7 | 183.0 |
| 40° | 175.5 | 174.1 | 173.7 | 173.4 |
| 42.5° | 163.9 | 163.6 | 163.4 | 162.7 |
| 45° | 153.6 | 153.4 | 152.4 | 152.7 |
| 47.5° | 142.6 | 141.7 | 141.1 | 141.7 |
| 50° | 131.2 | 130.8 | 129.2 | 129.6 |
| 52.5° | 119.8 | 118.2 | 117.8 | 117.5 |
| 55° | 107.0 | 105.4 | 104.7 | 104.3 |
| 57.5° | 94.3 | 93.8 | 93.1 | 93.6 |
| 60° | 83.5 | 83.5 | 83.5 | 83.3 |
| 62.5° | 75.1 | 74.6 | 74.4 | 74.8 |
| 65° | 66.6 | 66.4 | 65.7 | 65.5 |
| 67.5° | 58.7 | 58.0 | 58.0 | 57.7 |
| 70° | 49.7 | 49.3 | 48.2 | 48.4 |
| 72.5° | 39.9 | 39.5 | 39.5 | 39.2 |
| 75° | 33.1 | 32.9 | 32.8 | 33.5 |
| 77.5° | 27.6 | 27.6 | 27.8 | 27.4 |
| 80° | 22.2 | 22.2 | 22.1 | 22.1 |
| 82.5° | 16.7 | 16.9 | 17.1 | 16.7 |
| 85° | 11.7 | 11.6 | 11.9 | 11.7 |
| 87.5° | 6.6 | 6.2 | 6.2 | 6.4 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)