

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: P334020

Luminaire Tested: **S123RDP-S340D830-4F0-1E-UDD-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P334020
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-S340D830-4F0-1E-UDD-A
Description: DEFINE 3 REGRESSED DIRECT LED LUMINAIRE, ASYMMETRIC DIFFUSER
PENDANT/SURFACE/WALL MOUNT, 340 LUMENS PER FOOT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

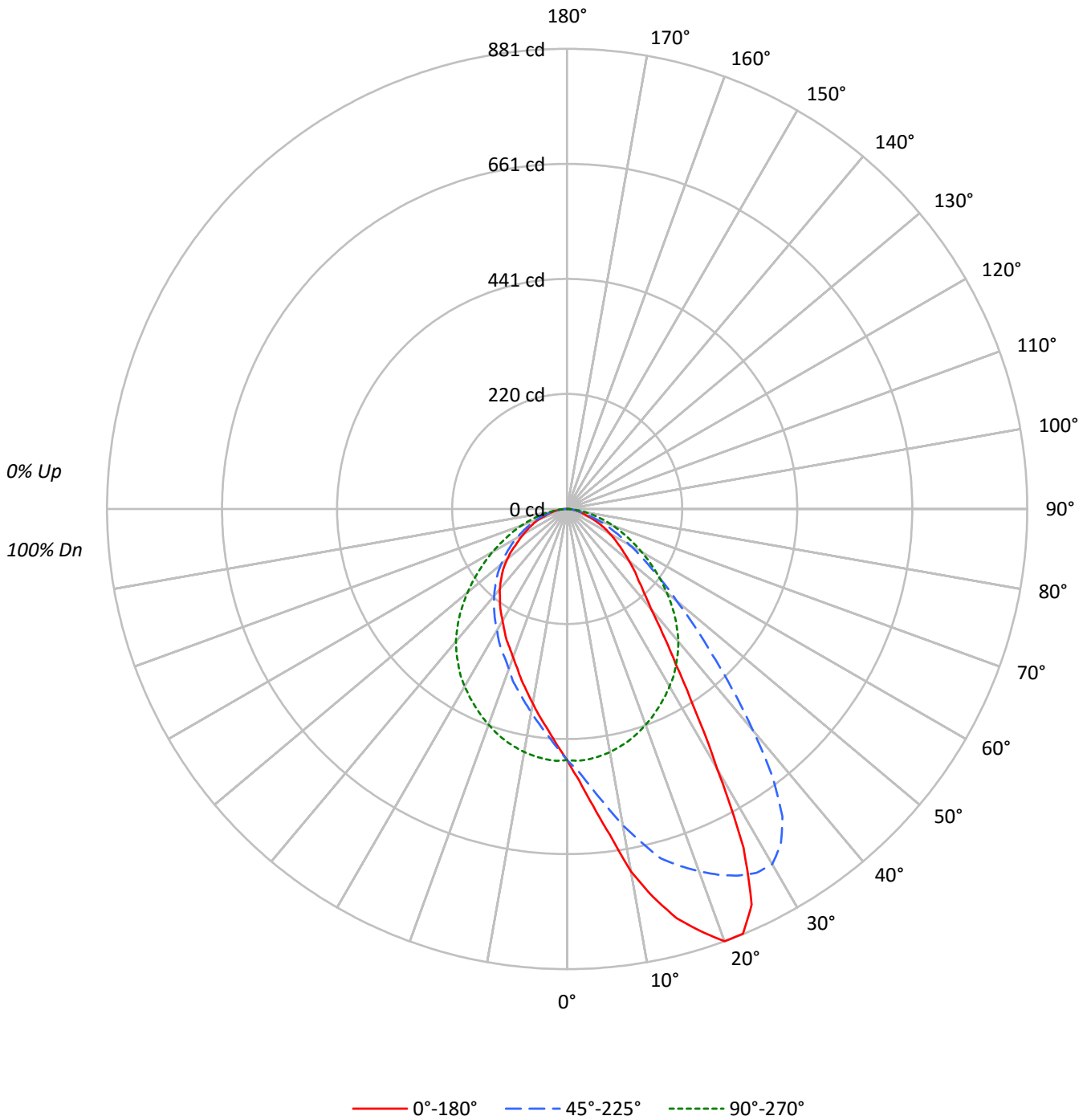
Lumens per Lamp: N/A
Luminaire Lumens: 1196.9 lumens
Efficiency: N/A
Efficacy: 103.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.22 / 1.35
Luminous Opening: Rectangular (W 4' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 11.6
Input Voltage (V): 120
Input Current (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: P334020
CATALOG NUMBER: S123RDP-S340D830-4F0-1E-UDD-A

Luminous Intensity Polar Plot





TEST NUMBER: P334020

CATALOG NUMBER: S123RDP-S340D830-4F0-1E-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 | | | |
| 1 | 110 | 106 | 102 | 99 | 108 | 104 | 100 | 97 | 100 | 97 | 94 | 96 | 93 | 91 | 92 | 90 | 89 | | | | | 87 | | | | |
| 2 | 101 | 94 | 88 | 83 | 99 | 92 | 87 | 82 | 89 | 84 | 80 | 86 | 82 | 78 | 83 | 79 | 77 | | | | | 74 | | | | |
| 3 | 93 | 84 | 76 | 71 | 91 | 82 | 75 | 70 | 79 | 74 | 69 | 77 | 72 | 68 | 74 | 70 | 66 | | | | | 64 | | | | |
| 4 | 86 | 75 | 67 | 61 | 84 | 74 | 66 | 61 | 71 | 65 | 60 | 69 | 64 | 59 | 67 | 62 | 58 | | | | | 56 | | | | |
| 5 | 80 | 68 | 60 | 53 | 78 | 67 | 59 | 53 | 65 | 58 | 53 | 63 | 57 | 52 | 61 | 56 | 52 | | | | | 50 | | | | |
| 6 | 74 | 62 | 53 | 47 | 72 | 61 | 53 | 47 | 59 | 52 | 47 | 57 | 51 | 46 | 56 | 50 | 46 | | | | | 44 | | | | |
| 7 | 69 | 56 | 48 | 42 | 67 | 55 | 48 | 42 | 54 | 47 | 42 | 53 | 46 | 42 | 51 | 46 | 41 | | | | | 39 | | | | |
| 8 | 64 | 52 | 44 | 38 | 63 | 51 | 43 | 38 | 50 | 43 | 38 | 48 | 42 | 38 | 47 | 42 | 37 | | | | | 36 | | | | |
| 9 | 60 | 48 | 40 | 35 | 59 | 47 | 40 | 35 | 46 | 39 | 34 | 45 | 39 | 34 | 44 | 38 | 34 | | | | | 32 | | | | |
| 10 | 57 | 44 | 37 | 32 | 55 | 44 | 36 | 32 | 43 | 36 | 31 | 42 | 36 | 31 | 41 | 35 | 31 | | | | | 29 | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° |
|-----|-------|------|------|
| 0° | 5174 | 5174 | 5174 |
| 5° | 6168 | 5196 | 4576 |
| 10° | 7701 | 5167 | 4134 |
| 15° | 9040 | 5114 | 3770 |
| 20° | 10088 | 5034 | 3460 |
| 25° | 9927 | 4951 | 3270 |
| 30° | 7136 | 4875 | 3074 |
| 35° | 4765 | 4775 | 2947 |
| 40° | 3510 | 4655 | 2816 |
| 45° | 2944 | 4445 | 2688 |
| 50° | 2599 | 4170 | 2509 |
| 55° | 2278 | 3855 | 2263 |
| 60° | 2028 | 3552 | 2073 |
| 65° | 1783 | 3230 | 1928 |
| 70° | 1397 | 2939 | 1762 |
| 75° | 1231 | 2566 | 1609 |
| 80° | 1072 | 2182 | 1581 |
| 85° | 865 | 1754 | 1680 |



TEST NUMBER: P334020

CATALOG NUMBER: S123RDP-S340D830-4F0-1E-UDD-A

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 47.2 | 3.9 |
| 10°-20° | 147.8 | 12.3 |
| 20°-30° | 232.7 | 19.4 |
| 30°-40° | 242.0 | 20.2 |
| 40°-50° | 207.1 | 17.3 |
| 50°-60° | 157.8 | 13.2 |
| 60°-70° | 101.1 | 8.4 |
| 70°-80° | 48.4 | 4.0 |
| 80°-90° | 12.7 | 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° | 427.7 | 35.7 |
| 0°-40° | 669.7 | 56.0 |
| 0°-60° | 1034.6 | 86.4 |
| 0°-90° | 1196.9 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 1196.9 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0° | 481 | 481 | 481 | 481 | 481 | |
| 5° | 571 | 535 | 481 | 434 | 424 | 58 |
| 15° | 811 | 693 | 459 | 361 | 338 | 230 |
| 25° | 836 | 774 | 417 | 298 | 275 | 363 |
| 35° | 363 | 719 | 363 | 243 | 224 | 236 |
| 45° | 193 | 390 | 292 | 192 | 177 | 152 |
| 55° | 121 | 195 | 205 | 139 | 121 | 110 |
| 65° | 70 | 96 | 127 | 87 | 76 | 69 |
| 75° | 30 | 35 | 62 | 44 | 39 | 32 |
| 85° | 7 | 8 | 14 | 13 | 14 | 8 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P334020

CATALOG NUMBER: S123RDP-S340D830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 480.7 | 480.7 | 480.7 | 480.7 | 480.7 | 480.7 | 480.7 | 480.7 | 480.7 | 480.7 | 480.7 |
| 2.5° | 519.8 | 520.6 | 517.9 | 517.5 | 514.4 | 513.6 | 513.6 | 509.3 | 506.6 | 503.1 | 501.1 |
| 5° | 570.8 | 574.1 | 572.5 | 568.8 | 562.6 | 561.1 | 557.2 | 551.1 | 544.1 | 535.4 | 531.3 |
| 7.5° | 629.3 | 636.0 | 634.8 | 629.0 | 622.5 | 618.3 | 607.4 | 598.6 | 585.2 | 573.1 | 563.6 |
| 10° | 704.6 | 699.8 | 696.1 | 690.6 | 684.6 | 674.9 | 663.4 | 647.6 | 629.3 | 614.8 | 598.8 |
| 12.5° | 760.9 | 761.2 | 756.2 | 750.5 | 741.4 | 732.3 | 717.5 | 697.4 | 675.3 | 652.9 | 634.0 |
| 15° | 811.2 | 812.4 | 809.3 | 803.3 | 791.4 | 775.1 | 753.7 | 745.7 | 715.3 | 692.6 | 670.0 |
| 17.5° | 847.0 | 847.2 | 846.5 | 838.5 | 825.6 | 814.4 | 794.5 | 775.8 | 747.0 | 716.3 | 686.0 |
| 20° | 880.7 | 878.6 | 879.1 | 869.8 | 860.7 | 847.4 | 828.0 | 797.4 | 774.7 | 737.9 | 706.4 |
| 22.5° | 879.9 | 879.9 | 881.7 | 880.1 | 874.1 | 864.7 | 850.5 | 825.8 | 795.3 | 758.1 | 721.6 |
| 25° | 835.8 | 834.2 | 843.9 | 846.5 | 857.0 | 858.9 | 854.4 | 840.2 | 812.8 | 774.5 | 730.7 |
| 27.5° | 730.9 | 724.9 | 745.1 | 765.1 | 791.6 | 808.5 | 825.8 | 829.7 | 816.7 | 785.4 | 739.5 |
| 30° | 574.1 | 593.4 | 602.5 | 635.0 | 671.2 | 714.4 | 752.3 | 788.3 | 797.2 | 785.2 | 749.2 |
| 32.5° | 452.3 | 468.5 | 475.7 | 502.5 | 535.6 | 588.1 | 649.6 | 704.4 | 747.2 | 761.6 | 743.5 |
| 35° | 362.6 | 362.8 | 380.1 | 392.4 | 423.7 | 475.7 | 530.9 | 599.2 | 667.1 | 718.6 | 723.9 |
| 37.5° | 299.2 | 300.0 | 311.1 | 323.5 | 348.6 | 377.8 | 429.0 | 486.7 | 568.3 | 645.1 | 685.0 |
| 40° | 249.8 | 251.7 | 259.5 | 271.6 | 288.5 | 309.3 | 347.1 | 400.6 | 466.1 | 553.9 | 625.8 |
| 42.5° | 218.1 | 221.4 | 224.5 | 233.1 | 242.0 | 261.1 | 289.9 | 328.2 | 386.2 | 468.1 | 553.7 |
| 45° | 193.4 | 195.1 | 198.2 | 202.5 | 211.9 | 225.5 | 246.1 | 273.9 | 323.3 | 390.1 | 473.1 |
| 47.5° | 174.5 | 173.5 | 177.0 | 180.7 | 187.0 | 196.9 | 211.3 | 235.4 | 272.4 | 328.4 | 400.2 |
| 50° | 155.2 | 154.9 | 157.2 | 159.9 | 165.9 | 172.6 | 184.0 | 201.0 | 229.0 | 273.5 | 337.9 |
| 52.5° | 137.0 | 138.1 | 139.5 | 143.0 | 146.9 | 152.1 | 161.9 | 173.1 | 196.1 | 232.9 | 284.0 |
| 55° | 121.4 | 122.0 | 124.3 | 126.1 | 129.2 | 134.8 | 141.2 | 151.4 | 167.9 | 194.7 | 238.9 |
| 57.5° | 107.8 | 107.6 | 109.9 | 110.1 | 114.0 | 118.7 | 123.9 | 131.9 | 144.5 | 165.6 | 196.5 |
| 60° | 94.2 | 93.6 | 95.5 | 96.9 | 98.8 | 102.5 | 106.6 | 114.4 | 123.9 | 138.5 | 164.0 |
| 62.5° | 81.9 | 81.7 | 82.9 | 84.4 | 85.8 | 89.1 | 92.4 | 97.9 | 104.9 | 116.7 | 135.6 |
| 65° | 70.0 | 70.6 | 71.2 | 71.8 | 72.6 | 74.7 | 78.0 | 82.1 | 87.2 | 95.9 | 110.5 |
| 67.5° | 57.6 | 58.4 | 58.6 | 60.1 | 61.7 | 62.8 | 64.6 | 68.5 | 72.4 | 80.3 | 88.9 |
| 70° | 44.4 | 44.2 | 44.4 | 45.1 | 47.3 | 49.6 | 52.3 | 54.9 | 57.2 | 62.3 | 69.3 |
| 72.5° | 36.6 | 36.2 | 36.8 | 36.8 | 37.7 | 37.9 | 39.3 | 41.8 | 44.9 | 47.9 | 52.5 |
| 75° | 29.6 | 29.6 | 29.6 | 29.6 | 30.5 | 30.9 | 31.5 | 32.1 | 33.1 | 34.8 | 38.5 |
| 77.5° | 23.0 | 23.0 | 23.5 | 23.7 | 23.9 | 24.1 | 24.5 | 25.1 | 25.5 | 26.3 | 28.2 |
| 80° | 17.3 | 17.5 | 17.3 | 17.5 | 17.5 | 17.9 | 18.1 | 18.7 | 18.9 | 20.0 | 20.6 |
| 82.5° | 11.9 | 11.7 | 11.9 | 12.1 | 12.1 | 12.6 | 12.6 | 13.0 | 13.0 | 13.4 | 14.0 |
| 85° | 7.0 | 6.6 | 7.0 | 6.8 | 7.2 | 6.8 | 7.0 | 7.4 | 7.4 | 7.6 | 8.4 |
| 87.5° | 2.1 | 2.5 | 2.1 | 2.3 | 2.3 | 2.5 | 2.5 | 2.5 | 2.9 | 2.7 | 2.9 |
| 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: P334020

CATALOG NUMBER: S123RDP-S340D830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° | 95° | 100° | 105° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 480.7 | 480.7 | 480.7 | 480.7 | 480.7 | 480.7 | 480.7 | 480.7 | 480.7 | 480.7 | 480.7 |
| 2.5° | 500.2 | 499.6 | 496.7 | 493.4 | 489.1 | 486.2 | 484.0 | 482.7 | 479.0 | 474.5 | 471.4 |
| 5° | 527.0 | 520.8 | 514.2 | 506.2 | 498.8 | 491.2 | 486.4 | 480.9 | 474.1 | 466.5 | 461.1 |
| 7.5° | 553.5 | 542.8 | 531.1 | 519.0 | 506.6 | 495.7 | 485.6 | 477.4 | 467.1 | 456.6 | 449.4 |
| 10° | 585.0 | 567.3 | 549.0 | 530.3 | 513.2 | 497.1 | 484.8 | 472.7 | 459.7 | 447.1 | 437.7 |
| 12.5° | 613.6 | 588.9 | 567.1 | 543.0 | 520.0 | 500.0 | 480.9 | 466.1 | 449.8 | 436.2 | 425.1 |
| 15° | 636.9 | 613.0 | 587.5 | 552.5 | 523.5 | 499.2 | 477.6 | 458.9 | 439.9 | 423.5 | 413.0 |
| 17.5° | 661.1 | 624.9 | 591.4 | 564.2 | 526.4 | 496.9 | 471.6 | 449.8 | 429.2 | 412.4 | 399.2 |
| 20° | 675.1 | 640.4 | 603.1 | 565.9 | 528.8 | 494.9 | 464.2 | 439.5 | 417.9 | 398.2 | 386.2 |
| 22.5° | 683.6 | 643.0 | 603.3 | 562.6 | 522.7 | 487.1 | 456.8 | 429.0 | 405.2 | 386.6 | 371.2 |
| 25° | 689.7 | 642.8 | 599.6 | 560.1 | 520.0 | 481.7 | 445.7 | 416.9 | 391.6 | 371.6 | 356.0 |
| 27.5° | 694.7 | 640.4 | 590.8 | 547.8 | 507.2 | 468.3 | 435.8 | 405.0 | 379.6 | 358.9 | 341.8 |
| 30° | 695.9 | 637.3 | 580.3 | 532.7 | 491.4 | 456.4 | 421.4 | 392.2 | 365.0 | 342.6 | 327.0 |
| 32.5° | 697.6 | 629.7 | 566.1 | 514.8 | 472.2 | 437.7 | 406.8 | 379.2 | 351.3 | 329.2 | 313.2 |
| 35° | 691.8 | 627.8 | 551.7 | 493.6 | 451.3 | 417.7 | 389.1 | 363.4 | 336.0 | 314.6 | 298.4 |
| 37.5° | 674.3 | 617.7 | 537.3 | 470.0 | 426.2 | 395.3 | 371.4 | 348.0 | 322.7 | 299.2 | 284.2 |
| 40° | 644.9 | 601.3 | 520.0 | 448.8 | 402.5 | 370.6 | 349.6 | 331.3 | 307.0 | 285.4 | 268.9 |
| 42.5° | 601.1 | 578.8 | 503.5 | 426.6 | 375.7 | 345.3 | 328.4 | 311.5 | 291.0 | 268.9 | 253.7 |
| 45° | 545.5 | 549.0 | 479.9 | 402.7 | 351.5 | 320.6 | 303.9 | 292.0 | 273.1 | 255.0 | 239.1 |
| 47.5° | 478.0 | 507.2 | 454.6 | 377.6 | 325.1 | 296.1 | 281.5 | 270.6 | 257.4 | 238.7 | 224.1 |
| 50° | 412.2 | 458.9 | 422.9 | 352.3 | 300.6 | 271.8 | 257.4 | 249.0 | 237.9 | 223.9 | 210.1 |
| 52.5° | 351.5 | 402.5 | 384.6 | 324.1 | 274.1 | 248.4 | 234.4 | 227.8 | 219.6 | 206.6 | 194.5 |
| 55° | 296.5 | 347.3 | 342.4 | 295.7 | 247.5 | 223.9 | 213.2 | 205.4 | 199.4 | 189.5 | 179.6 |
| 57.5° | 248.8 | 298.0 | 299.0 | 264.2 | 224.5 | 200.4 | 191.2 | 185.0 | 180.9 | 173.1 | 163.4 |
| 60° | 204.1 | 248.4 | 257.0 | 232.3 | 199.4 | 178.8 | 169.8 | 165.0 | 161.9 | 156.0 | 149.0 |
| 62.5° | 167.1 | 203.1 | 213.2 | 197.1 | 175.3 | 156.4 | 149.8 | 145.3 | 143.4 | 138.5 | 132.5 |
| 65° | 133.5 | 164.8 | 174.3 | 164.4 | 151.9 | 136.4 | 130.7 | 126.8 | 124.9 | 122.0 | 117.5 |
| 67.5° | 105.4 | 129.6 | 139.9 | 131.7 | 127.0 | 116.1 | 112.1 | 109.9 | 108.2 | 106.2 | 102.3 |
| 70° | 80.7 | 97.5 | 108.2 | 106.4 | 102.7 | 97.5 | 94.9 | 93.4 | 91.8 | 90.1 | 86.8 |
| 72.5° | 60.9 | 71.2 | 81.1 | 82.7 | 79.8 | 79.8 | 77.6 | 77.2 | 76.3 | 74.3 | 72.8 |
| 75° | 43.0 | 51.0 | 58.0 | 60.7 | 61.9 | 63.0 | 61.9 | 61.7 | 61.5 | 59.9 | 58.9 |
| 77.5° | 29.8 | 35.0 | 39.7 | 44.4 | 46.1 | 47.5 | 47.7 | 48.6 | 47.9 | 46.9 | 46.5 |
| 80° | 21.6 | 22.6 | 25.7 | 29.6 | 32.7 | 34.0 | 34.8 | 35.2 | 35.0 | 34.8 | 34.0 |
| 82.5° | 14.2 | 15.0 | 16.1 | 18.5 | 21.0 | 23.3 | 23.7 | 23.5 | 24.1 | 24.3 | 23.7 |
| 85° | 8.4 | 8.6 | 9.1 | 9.5 | 10.9 | 13.2 | 13.8 | 14.2 | 14.6 | 14.6 | 13.4 |
| 87.5° | 3.3 | 3.1 | 3.5 | 3.5 | 4.1 | 4.3 | 5.6 | 6.6 | 6.8 | 6.0 | 6.0 |
| 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: P334020

CATALOG NUMBER: S123RDP-S340D830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

| | 110° | 115° | 120° | 125° | 130° | 135° | 140° | 145° | 150° | 155° | 160° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 480.7 | 480.7 | 480.7 | 480.7 | 480.7 | 480.7 | 480.7 | 480.7 | 480.7 | 480.7 | 480.7 |
| 2.5° | 470.4 | 467.7 | 465.9 | 461.8 | 459.1 | 456.2 | 453.3 | 455.2 | 455.0 | 454.8 | 454.8 |
| 5° | 456.6 | 451.9 | 447.6 | 442.0 | 438.5 | 434.2 | 430.9 | 430.5 | 431.3 | 428.4 | 426.8 |
| 7.5° | 443.6 | 437.5 | 431.3 | 425.5 | 419.2 | 414.2 | 411.1 | 409.9 | 407.6 | 405.8 | 404.1 |
| 10° | 429.9 | 422.2 | 416.3 | 408.7 | 401.7 | 395.5 | 391.6 | 388.9 | 387.5 | 386.0 | 383.4 |
| 12.5° | 415.7 | 408.3 | 400.2 | 391.4 | 384.8 | 377.4 | 374.7 | 371.6 | 368.5 | 366.9 | 363.0 |
| 15° | 401.9 | 392.2 | 384.2 | 375.1 | 367.7 | 360.7 | 356.6 | 350.6 | 349.8 | 347.8 | 344.1 |
| 17.5° | 388.5 | 377.8 | 366.1 | 359.9 | 352.5 | 345.1 | 338.5 | 336.6 | 330.5 | 328.4 | 324.9 |
| 20° | 372.0 | 362.4 | 353.9 | 345.1 | 332.9 | 326.1 | 321.2 | 318.5 | 313.8 | 310.9 | 308.9 |
| 22.5° | 357.8 | 348.0 | 337.9 | 327.2 | 317.7 | 309.9 | 306.6 | 302.1 | 300.0 | 295.7 | 293.4 |
| 25° | 344.5 | 333.8 | 322.0 | 310.9 | 303.7 | 298.0 | 292.2 | 288.5 | 284.8 | 282.9 | 278.8 |
| 27.5° | 328.2 | 317.5 | 306.2 | 297.5 | 289.3 | 283.6 | 278.0 | 274.9 | 270.2 | 267.1 | 264.8 |
| 30° | 315.2 | 302.1 | 292.6 | 285.0 | 273.7 | 268.3 | 264.4 | 260.3 | 257.0 | 253.7 | 251.5 |
| 32.5° | 300.2 | 288.5 | 279.6 | 269.8 | 261.7 | 255.8 | 250.4 | 246.9 | 244.3 | 241.2 | 238.9 |
| 35° | 284.4 | 274.3 | 265.0 | 255.6 | 249.2 | 243.2 | 237.3 | 234.2 | 231.5 | 228.6 | 226.6 |
| 37.5° | 270.0 | 260.5 | 251.9 | 242.8 | 235.0 | 229.8 | 224.9 | 222.9 | 219.1 | 217.1 | 215.0 |
| 40° | 256.8 | 247.5 | 238.1 | 229.4 | 221.2 | 217.5 | 213.2 | 209.7 | 206.4 | 204.9 | 202.7 |
| 42.5° | 242.4 | 233.1 | 225.5 | 216.1 | 209.7 | 204.3 | 200.4 | 196.5 | 194.2 | 192.0 | 191.0 |
| 45° | 228.2 | 220.0 | 212.2 | 202.9 | 196.5 | 192.2 | 187.7 | 184.2 | 181.9 | 180.5 | 178.2 |
| 47.5° | 214.6 | 206.2 | 198.4 | 190.1 | 184.0 | 179.0 | 174.3 | 172.0 | 168.9 | 167.3 | 165.6 |
| 50° | 199.6 | 192.2 | 183.8 | 176.3 | 170.2 | 165.2 | 161.5 | 158.4 | 155.8 | 153.5 | 152.5 |
| 52.5° | 185.8 | 177.8 | 170.8 | 164.0 | 157.4 | 151.7 | 148.4 | 145.1 | 143.2 | 140.5 | 139.3 |
| 55° | 170.4 | 162.8 | 156.6 | 149.8 | 143.4 | 138.7 | 134.6 | 131.7 | 129.6 | 126.8 | 125.1 |
| 57.5° | 156.2 | 149.6 | 142.0 | 136.0 | 129.2 | 125.5 | 122.0 | 117.9 | 115.4 | 113.2 | 111.5 |
| 60° | 141.8 | 134.0 | 127.6 | 122.0 | 116.3 | 111.1 | 108.0 | 104.9 | 102.3 | 100.0 | 98.6 |
| 62.5° | 126.8 | 120.2 | 114.2 | 108.0 | 102.9 | 98.6 | 94.9 | 92.4 | 90.1 | 88.9 | 87.5 |
| 65° | 111.3 | 106.0 | 99.8 | 94.9 | 89.9 | 86.6 | 83.7 | 81.5 | 79.8 | 78.8 | 77.6 |
| 67.5° | 97.1 | 92.0 | 86.4 | 81.3 | 78.0 | 75.3 | 73.3 | 71.2 | 70.4 | 69.1 | 68.3 |
| 70° | 83.3 | 78.0 | 73.3 | 69.6 | 66.3 | 64.4 | 63.2 | 61.7 | 60.9 | 59.3 | 58.4 |
| 72.5° | 68.3 | 64.8 | 61.7 | 58.9 | 56.4 | 54.7 | 53.1 | 51.2 | 49.8 | 47.9 | 47.1 |
| 75° | 56.2 | 52.7 | 50.0 | 47.9 | 46.3 | 44.0 | 41.8 | 39.9 | 39.3 | 38.7 | 38.5 |
| 77.5° | 43.8 | 41.6 | 39.5 | 37.9 | 35.6 | 33.5 | 32.9 | 32.5 | 32.3 | 31.9 | 31.9 |
| 80° | 32.7 | 30.7 | 29.2 | 27.2 | 25.9 | 25.9 | 25.9 | 25.5 | 25.7 | 25.7 | 25.7 |
| 82.5° | 22.2 | 20.4 | 19.8 | 19.3 | 19.3 | 19.5 | 19.5 | 19.8 | 19.5 | 20.0 | 19.8 |
| 85° | 12.6 | 12.8 | 13.2 | 13.0 | 13.2 | 13.2 | 13.6 | 13.4 | 13.6 | 13.2 | 13.6 |
| 87.5° | 5.8 | 6.4 | 6.6 | 6.8 | 7.0 | 6.8 | 7.0 | 7.0 | 7.2 | 7.2 | 7.2 |
| 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: P334020

CATALOG NUMBER: S123RDP-S340D830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

| | 165° | 170° | 175° | 180° |
|-------|-------|-------|-------|-------|
| 0° | 480.7 | 480.7 | 480.7 | 480.7 |
| 2.5° | 452.3 | 452.1 | 452.3 | 451.5 |
| 5° | 426.2 | 425.9 | 425.3 | 423.5 |
| 7.5° | 402.5 | 402.1 | 400.4 | 400.8 |
| 10° | 381.9 | 382.1 | 379.6 | 378.2 |
| 12.5° | 362.0 | 360.7 | 358.9 | 357.2 |
| 15° | 344.9 | 342.8 | 337.9 | 338.3 |
| 17.5° | 323.7 | 322.0 | 321.8 | 318.9 |
| 20° | 305.6 | 304.5 | 305.0 | 302.1 |
| 22.5° | 291.4 | 290.3 | 288.1 | 287.7 |
| 25° | 277.6 | 275.9 | 274.3 | 275.3 |
| 27.5° | 263.6 | 262.4 | 260.5 | 260.5 |
| 30° | 250.4 | 249.2 | 248.4 | 247.3 |
| 32.5° | 237.0 | 237.0 | 235.4 | 235.4 |
| 35° | 225.7 | 224.5 | 224.1 | 224.3 |
| 37.5° | 214.8 | 213.2 | 212.4 | 211.5 |
| 40° | 202.9 | 201.2 | 200.8 | 200.4 |
| 42.5° | 189.5 | 189.1 | 188.9 | 188.1 |
| 45° | 177.6 | 177.4 | 176.1 | 176.6 |
| 47.5° | 164.8 | 163.8 | 163.2 | 163.8 |
| 50° | 151.7 | 151.2 | 149.4 | 149.8 |
| 52.5° | 138.5 | 136.6 | 136.2 | 135.8 |
| 55° | 123.7 | 121.8 | 121.0 | 120.6 |
| 57.5° | 109.1 | 108.4 | 107.6 | 108.2 |
| 60° | 96.5 | 96.5 | 96.5 | 96.3 |
| 62.5° | 86.8 | 86.2 | 86.0 | 86.4 |
| 65° | 77.0 | 76.8 | 75.9 | 75.7 |
| 67.5° | 67.9 | 67.1 | 67.1 | 66.7 |
| 70° | 57.4 | 57.0 | 55.8 | 56.0 |
| 72.5° | 46.1 | 45.7 | 45.7 | 45.3 |
| 75° | 38.3 | 38.1 | 37.9 | 38.7 |
| 77.5° | 31.9 | 31.9 | 32.1 | 31.7 |
| 80° | 25.7 | 25.7 | 25.5 | 25.5 |
| 82.5° | 19.3 | 19.5 | 19.8 | 19.3 |
| 85° | 13.6 | 13.4 | 13.8 | 13.6 |
| 87.5° | 7.6 | 7.2 | 7.2 | 7.4 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)