

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: P332274-940

Luminaire Tested: **S123RDIP-S560D365U940-4F0-1E-UDD-F1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332274-940
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-9,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S123RDIP-S560D365U940-4F0-1E-UDD-F1
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 560 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER, REGRESSED
HOUSING
UPLIGHT 365 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3015.3 lumens
Efficiency: N/A
Efficacy: 109.6 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-Direct

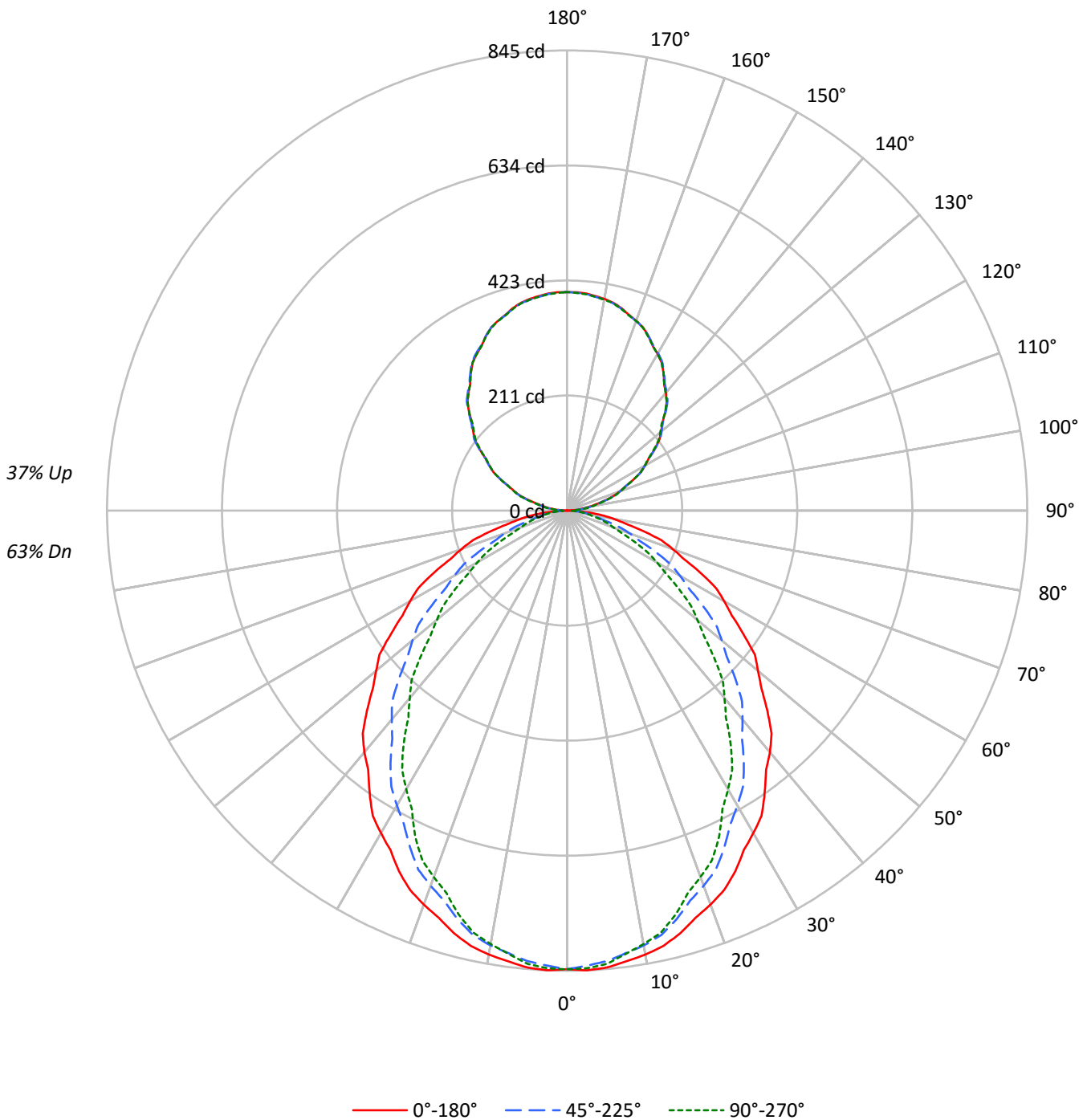
Input Watts (W): 27.5
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P332274-940

CATALOG NUMBER: S123RDIP-S560D365U940-4F0-1E-UDD-F1

Luminous Intensity Polar Plot





TEST NUMBER: P332274-940

CATALOG NUMBER: S123RDIP-S560D365U940-4F0-1E-UDD-F1

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 | 110 | 110 | 110 | 110 | 103 | 103 | 103 | 103 | 91 | 91 | 91 | 79 | 79 | 79 | 68 | 68 | 68 | 63 |
| 1 | 101 | 97 | 93 | 90 | 95 | 91 | 88 | 85 | 80 | 78 | 75 | 70 | 68 | 67 | 61 | 60 | 58 | 54 |
| 2 | 92 | 85 | 79 | 74 | 87 | 80 | 75 | 70 | 71 | 67 | 63 | 62 | 59 | 56 | 54 | 52 | 50 | 46 |
| 3 | 85 | 75 | 68 | 62 | 79 | 71 | 64 | 59 | 63 | 58 | 54 | 55 | 51 | 48 | 48 | 45 | 43 | 39 |
| 4 | 78 | 67 | 59 | 53 | 73 | 63 | 56 | 51 | 56 | 50 | 46 | 50 | 45 | 42 | 43 | 40 | 37 | 34 |
| 5 | 71 | 60 | 52 | 46 | 67 | 57 | 49 | 44 | 50 | 45 | 40 | 45 | 40 | 36 | 39 | 36 | 33 | 30 |
| 6 | 66 | 54 | 46 | 40 | 62 | 51 | 44 | 38 | 46 | 40 | 35 | 41 | 36 | 32 | 36 | 32 | 29 | 26 |
| 7 | 61 | 49 | 41 | 35 | 57 | 46 | 39 | 34 | 42 | 36 | 31 | 37 | 32 | 29 | 33 | 29 | 26 | 24 |
| 8 | 57 | 44 | 37 | 31 | 53 | 42 | 35 | 30 | 38 | 32 | 28 | 34 | 29 | 26 | 30 | 26 | 23 | 21 |
| 9 | 53 | 41 | 33 | 28 | 50 | 39 | 32 | 27 | 35 | 29 | 25 | 31 | 27 | 23 | 28 | 24 | 21 | 19 |
| 10 | 50 | 38 | 30 | 25 | 47 | 36 | 29 | 25 | 32 | 27 | 23 | 29 | 24 | 21 | 26 | 22 | 19 | 17 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 9065 | 9065 | 9065 |
| 5° | 9100 | 8975 | 9027 |
| 10° | 9049 | 8862 | 8833 |
| 15° | 8952 | 8655 | 8564 |
| 20° | 8818 | 8395 | 8200 |
| 25° | 8679 | 8105 | 7845 |
| 30° | 8499 | 7768 | 7343 |
| 35° | 8311 | 7432 | 6884 |
| 40° | 8140 | 7035 | 6315 |
| 45° | 7913 | 6645 | 5801 |
| 50° | 7663 | 6199 | 5228 |
| 55° | 7409 | 5692 | 4692 |
| 60° | 7175 | 5147 | 4103 |
| 65° | 6872 | 4559 | 3512 |
| 70° | 6493 | 3827 | 2839 |
| 75° | 5939 | 3011 | 2670 |
| 80° | 5294 | 2672 | 2455 |
| 85° | 4471 | 2359 | 2186 |



TEST NUMBER: P332274-940

CATALOG NUMBER: S123RDIP-S560D365U940-4F0-1E-UDD-F1

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 79.1 | 2.6 |
| 10°-20° | 220.1 | 7.3 |
| 20°-30° | 316.9 | 10.5 |
| 30°-40° | 356.9 | 11.8 |
| 40°-50° | 341.4 | 11.3 |
| 50°-60° | 279.6 | 9.3 |
| 60°-70° | 188.7 | 6.3 |
| 70°-80° | 94.9 | 3.1 |
| 80°-90° | 26.3 | 0.9 |
| 90°-100° | 26.1 | 0.9 |
| 100°-110° | 78.2 | 2.6 |
| 110°-120° | 133.0 | 4.4 |
| 120°-130° | 175.0 | 5.8 |
| 130°-140° | 196.7 | 6.5 |
| 140°-150° | 193.3 | 6.4 |
| 150°-160° | 162.8 | 5.4 |
| 160°-170° | 108.3 | 3.6 |
| 170°-180° | 37.9 | 1.3 |
| 0°-30° | 616.0 | 20.4 |
| 0°-40° | 972.9 | 32.3 |
| 0°-60° | 1594.0 | 52.9 |
| 0°-90° | 1903.8 | 63.1 |
| 90°-120° | 237.4 | 7.9 |
| 90°-150° | 802.4 | 26.6 |
| 90°-180° | 1111.0 | 36.8 |
| 0°-180° | 3015.3 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|-----|-------|-----|-------|-----|------|
| 0° | 842 | 842 | 842 | 842 | 842 | |
| 5° | 842 | 839 | 831 | 836 | 835 | 80 |
| 15° | 803 | 795 | 777 | 773 | 768 | 226 |
| 25° | 731 | 713 | 682 | 668 | 660 | 336 |
| 35° | 632 | 607 | 566 | 537 | 524 | 396 |
| 45° | 520 | 488 | 436 | 399 | 381 | 401 |
| 55° | 395 | 360 | 303 | 265 | 250 | 354 |
| 65° | 270 | 231 | 179 | 147 | 138 | 267 |
| 75° | 143 | 110 | 72 | 66 | 64 | 152 |
| 85° | 36 | 22 | 19 | 18 | 18 | 41 |
| 90° | 0 | 4 | 8 | 9 | 10 | 3 |
| 95° | 19 | 21 | 23 | 24 | 25 | 21 |
| 105° | 71 | 72 | 74 | 74 | 75 | 76 |
| 115° | 134 | 135 | 134 | 135 | 134 | 132 |
| 125° | 196 | 197 | 196 | 195 | 194 | 175 |
| 135° | 254 | 256 | 256 | 255 | 254 | 196 |
| 145° | 308 | 309 | 310 | 310 | 308 | 193 |
| 155° | 353 | 353 | 354 | 355 | 353 | 163 |
| 165° | 385 | 384 | 384 | 386 | 384 | 108 |
| 175° | 400 | 399 | 399 | 401 | 399 | 38 |
| 180° | 401 | 401 | 401 | 401 | 401 | |



TEST NUMBER: P332274-940

CATALOG NUMBER: S123RDIP-S560D365U940-4F0-1E-UDD-F1

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 842.2 | 842.2 | 842.2 | 842.2 | 842.2 | 842.2 | 842.2 | 842.2 | 842.2 | 842.2 | 842.2 |
| 2.5° | 845.0 | 844.5 | 844.0 | 843.5 | 843.0 | 842.0 | 840.6 | 839.1 | 837.7 | 836.2 | 837.6 |
| 5° | 842.2 | 841.5 | 840.7 | 840.0 | 839.2 | 837.9 | 836.1 | 834.3 | 832.4 | 830.6 | 832.0 |
| 7.5° | 834.5 | 833.7 | 832.8 | 832.0 | 831.2 | 829.6 | 827.2 | 824.8 | 822.4 | 820.1 | 820.8 |
| 10° | 827.9 | 826.8 | 825.7 | 824.7 | 823.7 | 821.7 | 819.0 | 816.3 | 813.5 | 810.8 | 810.9 |
| 12.5° | 818.6 | 817.4 | 816.2 | 815.0 | 813.9 | 811.6 | 808.2 | 804.9 | 801.6 | 798.3 | 798.2 |
| 15° | 803.3 | 801.6 | 800.0 | 798.3 | 796.7 | 793.6 | 789.4 | 785.2 | 780.9 | 776.7 | 775.9 |
| 17.5° | 784.0 | 782.1 | 780.2 | 778.2 | 776.2 | 772.6 | 767.1 | 761.8 | 756.3 | 751.0 | 749.4 |
| 20° | 769.8 | 767.4 | 765.0 | 762.5 | 760.1 | 756.0 | 750.2 | 744.5 | 738.7 | 732.9 | 730.9 |
| 22.5° | 753.9 | 751.2 | 748.4 | 745.6 | 742.8 | 738.3 | 732.2 | 726.0 | 720.0 | 713.8 | 711.3 |
| 25° | 730.8 | 727.1 | 723.3 | 719.5 | 715.7 | 710.3 | 703.3 | 696.3 | 689.4 | 682.4 | 679.2 |
| 27.5° | 702.8 | 698.7 | 694.5 | 690.3 | 686.1 | 680.1 | 672.3 | 664.6 | 656.8 | 649.1 | 644.6 |
| 30° | 683.8 | 679.2 | 674.7 | 670.1 | 665.6 | 659.0 | 650.5 | 642.0 | 633.5 | 625.0 | 619.8 |
| 32.5° | 664.6 | 659.5 | 654.3 | 649.2 | 644.0 | 636.9 | 627.9 | 618.9 | 609.9 | 600.9 | 595.3 |
| 35° | 632.5 | 627.1 | 621.6 | 616.2 | 610.6 | 603.2 | 593.8 | 584.4 | 575.0 | 565.6 | 559.0 |
| 37.5° | 600.0 | 594.0 | 587.9 | 581.8 | 575.7 | 567.7 | 557.6 | 547.6 | 537.5 | 527.4 | 520.0 |
| 40° | 579.3 | 572.6 | 565.9 | 559.2 | 552.5 | 543.8 | 533.1 | 522.3 | 511.5 | 500.7 | 492.8 |
| 42.5° | 555.7 | 549.0 | 542.4 | 535.7 | 529.1 | 520.1 | 509.0 | 497.8 | 486.7 | 475.5 | 466.9 |
| 45° | 519.8 | 513.0 | 506.1 | 499.4 | 492.5 | 483.2 | 471.5 | 459.9 | 448.2 | 436.5 | 427.8 |
| 47.5° | 483.8 | 476.4 | 468.9 | 461.4 | 453.9 | 444.3 | 432.6 | 420.9 | 409.2 | 397.5 | 388.2 |
| 50° | 457.6 | 450.5 | 443.4 | 436.2 | 429.1 | 419.4 | 407.1 | 394.8 | 382.5 | 370.2 | 360.8 |
| 52.5° | 434.2 | 426.4 | 418.7 | 410.9 | 403.2 | 393.2 | 381.0 | 368.9 | 356.7 | 344.6 | 334.7 |
| 55° | 394.8 | 387.4 | 380.0 | 372.5 | 365.1 | 354.9 | 342.0 | 329.1 | 316.2 | 303.3 | 294.4 |
| 57.5° | 358.5 | 350.4 | 342.2 | 334.1 | 326.0 | 315.5 | 302.6 | 289.6 | 276.6 | 263.7 | 255.4 |
| 60° | 333.3 | 325.0 | 316.6 | 308.3 | 300.0 | 289.4 | 276.9 | 264.3 | 251.6 | 239.1 | 230.9 |
| 62.5° | 308.2 | 299.9 | 291.5 | 283.1 | 274.8 | 264.3 | 251.7 | 239.2 | 226.5 | 213.9 | 206.3 |
| 65° | 269.8 | 261.4 | 253.2 | 244.8 | 236.4 | 226.3 | 214.5 | 202.7 | 190.8 | 179.0 | 171.6 |
| 67.5° | 231.4 | 223.0 | 214.5 | 206.1 | 197.7 | 187.8 | 176.4 | 165.1 | 153.7 | 142.3 | 136.8 |
| 70° | 206.3 | 198.0 | 189.9 | 181.7 | 173.5 | 164.1 | 153.5 | 142.9 | 132.2 | 121.6 | 116.3 |
| 72.5° | 181.1 | 173.1 | 165.0 | 156.9 | 148.8 | 140.0 | 130.4 | 120.6 | 111.0 | 101.4 | 97.0 |
| 75° | 142.8 | 135.5 | 128.2 | 120.9 | 113.6 | 105.8 | 97.5 | 89.1 | 80.8 | 72.4 | 70.9 |
| 77.5° | 107.8 | 101.2 | 94.6 | 88.0 | 81.4 | 75.4 | 70.1 | 64.7 | 59.3 | 53.9 | 53.1 |
| 80° | 85.4 | 79.2 | 72.9 | 66.7 | 60.5 | 55.8 | 52.6 | 49.4 | 46.2 | 43.1 | 42.5 |
| 82.5° | 64.1 | 58.7 | 53.3 | 48.0 | 42.5 | 39.1 | 37.6 | 36.2 | 34.7 | 33.2 | 32.7 |
| 85° | 36.2 | 32.9 | 29.5 | 26.2 | 22.8 | 21.0 | 20.5 | 20.1 | 19.6 | 19.1 | 18.8 |
| 87.5° | 13.2 | 11.9 | 10.8 | 9.6 | 8.4 | 7.8 | 8.1 | 8.3 | 8.5 | 8.6 | 8.6 |
| 90° | 0.4 | 1.0 | 1.7 | 2.4 | 3.1 | 3.9 | 4.8 | 5.7 | 6.7 | 7.6 | 7.8 |
| 92.5° | 7.7 | 8.1 | 8.6 | 9.1 | 9.5 | 10.0 | 10.5 | 11.1 | 11.6 | 12.1 | 12.3 |
| 95° | 18.6 | 19.1 | 19.5 | 20.1 | 20.5 | 21.0 | 21.7 | 22.2 | 22.7 | 23.4 | 23.6 |
| 97.5° | 33.0 | 33.3 | 33.8 | 34.2 | 34.5 | 34.9 | 35.3 | 35.7 | 36.1 | 36.5 | 36.8 |
| 100° | 42.9 | 43.2 | 43.7 | 44.1 | 44.5 | 44.9 | 45.3 | 45.7 | 46.0 | 46.3 | 46.5 |
| 102.5° | 54.2 | 54.5 | 54.7 | 54.9 | 55.2 | 55.6 | 56.0 | 56.5 | 57.0 | 57.4 | 57.6 |
| 105° | 70.9 | 71.1 | 71.2 | 71.3 | 71.4 | 71.9 | 72.5 | 73.1 | 73.7 | 74.4 | 74.4 |
| 107.5° | 90.3 | 90.4 | 90.5 | 90.6 | 90.7 | 90.8 | 91.0 | 91.3 | 91.6 | 91.8 | 92.0 |
| 110° | 102.5 | 102.5 | 102.7 | 102.8 | 103.0 | 103.1 | 103.3 | 103.4 | 103.5 | 103.7 | 104.0 |



TEST NUMBER: P332274-940

CATALOG NUMBER: S123RDIP-S560D365U940-4F0-1E-UDD-F1

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 115.0 | 115.1 | 115.2 | 115.3 | 115.4 | 115.4 | 115.5 | 115.5 | 115.5 | 115.6 | 115.8 |
| 115° | 133.9 | 134.1 | 134.4 | 134.6 | 134.7 | 134.8 | 134.6 | 134.6 | 134.4 | 134.2 | 134.3 |
| 117.5° | 152.9 | 153.1 | 153.3 | 153.4 | 153.6 | 153.5 | 153.3 | 153.1 | 152.9 | 152.8 | 152.8 |
| 120° | 164.8 | 165.2 | 165.7 | 166.0 | 166.5 | 166.5 | 166.2 | 165.9 | 165.5 | 165.1 | 165.1 |
| 122.5° | 177.2 | 177.5 | 177.8 | 178.1 | 178.4 | 178.4 | 178.3 | 178.1 | 177.9 | 177.7 | 177.5 |
| 125° | 196.0 | 196.2 | 196.4 | 196.6 | 196.9 | 196.9 | 196.7 | 196.6 | 196.4 | 196.4 | 196.0 |
| 127.5° | 213.4 | 213.8 | 214.3 | 214.7 | 215.2 | 215.3 | 215.2 | 215.0 | 214.9 | 214.7 | 214.4 |
| 130° | 225.0 | 225.5 | 226.1 | 226.7 | 227.2 | 227.4 | 227.2 | 227.0 | 226.8 | 226.6 | 226.3 |
| 132.5° | 236.6 | 237.2 | 237.7 | 238.3 | 238.8 | 239.1 | 238.9 | 238.7 | 238.5 | 238.4 | 238.1 |
| 135° | 254.3 | 254.8 | 255.1 | 255.6 | 256.0 | 256.2 | 256.1 | 256.0 | 255.9 | 255.9 | 255.6 |
| 137.5° | 270.7 | 271.1 | 271.3 | 271.7 | 272.1 | 272.3 | 272.5 | 272.7 | 272.9 | 273.0 | 272.8 |
| 140° | 282.0 | 282.4 | 282.8 | 283.1 | 283.5 | 283.7 | 283.7 | 283.7 | 283.8 | 283.9 | 283.8 |
| 142.5° | 292.4 | 292.7 | 293.1 | 293.5 | 293.7 | 294.0 | 294.2 | 294.3 | 294.4 | 294.5 | 294.4 |
| 145° | 308.5 | 308.6 | 308.8 | 308.9 | 309.1 | 309.2 | 309.4 | 309.7 | 309.9 | 310.0 | 310.0 |
| 147.5° | 322.6 | 322.9 | 323.2 | 323.4 | 323.6 | 323.9 | 324.0 | 324.2 | 324.4 | 324.7 | 324.7 |
| 150° | 332.4 | 332.6 | 332.7 | 332.9 | 333.1 | 333.1 | 333.3 | 333.4 | 333.6 | 333.7 | 333.7 |
| 152.5° | 340.5 | 340.7 | 340.9 | 341.1 | 341.3 | 341.4 | 341.5 | 341.6 | 341.7 | 341.8 | 341.9 |
| 155° | 353.3 | 353.3 | 353.3 | 353.3 | 353.3 | 353.3 | 353.4 | 353.4 | 353.5 | 353.6 | 353.8 |
| 157.5° | 364.1 | 364.0 | 363.9 | 363.8 | 363.7 | 363.7 | 363.8 | 363.8 | 363.9 | 364.0 | 364.3 |
| 160° | 370.9 | 370.8 | 370.6 | 370.5 | 370.3 | 370.2 | 370.2 | 370.2 | 370.2 | 370.2 | 370.6 |
| 162.5° | 376.9 | 376.7 | 376.6 | 376.4 | 376.1 | 376.1 | 376.1 | 376.2 | 376.3 | 376.3 | 376.7 |
| 165° | 384.8 | 384.6 | 384.3 | 384.1 | 383.9 | 383.8 | 383.8 | 383.8 | 383.8 | 383.8 | 384.2 |
| 167.5° | 391.0 | 390.7 | 390.5 | 390.1 | 389.9 | 389.8 | 389.9 | 389.9 | 389.9 | 390.0 | 390.4 |
| 170° | 394.5 | 394.2 | 394.0 | 393.7 | 393.4 | 393.2 | 393.2 | 393.2 | 393.2 | 393.2 | 393.8 |
| 172.5° | 397.3 | 397.0 | 396.7 | 396.5 | 396.2 | 396.0 | 396.0 | 396.0 | 396.0 | 396.0 | 396.5 |
| 175° | 400.2 | 399.9 | 399.7 | 399.4 | 399.1 | 399.0 | 399.0 | 399.0 | 399.0 | 399.0 | 399.4 |
| 177.5° | 401.4 | 401.2 | 400.9 | 400.7 | 400.5 | 400.4 | 400.4 | 400.4 | 400.4 | 400.4 | 400.7 |
| 180° | 401.2 | 401.2 | 401.2 | 401.2 | 401.2 | 401.2 | 401.2 | 401.2 | 401.2 | 401.2 | 401.2 |



TEST NUMBER: P332274-940

CATALOG NUMBER: S123RDIP-S560D365U940-4F0-1E-UDD-F1

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 842.2 | 842.2 | 842.2 | 842.2 | 842.2 | 842.2 | 842.2 | 842.2 |
| 2.5° | 838.9 | 840.3 | 841.6 | 842.1 | 841.9 | 841.6 | 841.4 | 841.2 |
| 5° | 833.3 | 834.7 | 836.1 | 836.6 | 836.3 | 836.0 | 835.7 | 835.4 |
| 7.5° | 821.6 | 822.3 | 823.1 | 823.2 | 822.7 | 822.2 | 821.7 | 821.2 |
| 10° | 811.1 | 811.3 | 811.4 | 811.1 | 810.4 | 809.6 | 808.9 | 808.1 |
| 12.5° | 798.1 | 798.0 | 797.9 | 797.4 | 796.5 | 795.6 | 794.8 | 793.9 |
| 15° | 775.2 | 774.4 | 773.6 | 772.7 | 771.6 | 770.6 | 769.5 | 768.5 |
| 17.5° | 747.8 | 746.2 | 744.5 | 743.0 | 741.4 | 739.8 | 738.2 | 736.6 |
| 20° | 729.0 | 727.0 | 725.1 | 723.2 | 721.3 | 719.5 | 717.6 | 715.9 |
| 22.5° | 708.9 | 706.4 | 704.0 | 701.9 | 700.2 | 698.5 | 696.8 | 695.1 |
| 25° | 676.0 | 672.8 | 669.7 | 667.2 | 665.6 | 663.9 | 662.2 | 660.5 |
| 27.5° | 640.2 | 635.8 | 631.3 | 627.9 | 625.3 | 622.8 | 620.2 | 617.6 |
| 30° | 614.7 | 609.5 | 604.4 | 600.6 | 598.2 | 595.8 | 593.3 | 590.8 |
| 32.5° | 589.7 | 584.0 | 578.4 | 574.3 | 571.8 | 569.2 | 566.6 | 564.1 |
| 35° | 552.5 | 546.0 | 539.5 | 534.8 | 532.1 | 529.4 | 526.6 | 523.9 |
| 37.5° | 512.6 | 505.2 | 497.8 | 492.5 | 489.1 | 485.7 | 482.3 | 478.9 |
| 40° | 484.9 | 477.0 | 469.1 | 463.4 | 459.9 | 456.5 | 453.0 | 449.4 |
| 42.5° | 458.3 | 449.7 | 441.0 | 435.2 | 432.0 | 428.9 | 425.8 | 422.7 |
| 45° | 419.2 | 410.5 | 401.9 | 395.7 | 392.1 | 388.4 | 384.8 | 381.1 |
| 47.5° | 378.7 | 369.3 | 359.9 | 353.6 | 350.4 | 347.1 | 343.8 | 340.5 |
| 50° | 351.4 | 342.0 | 332.6 | 326.1 | 322.6 | 319.1 | 315.7 | 312.2 |
| 52.5° | 325.0 | 315.2 | 305.4 | 299.0 | 295.9 | 292.7 | 289.6 | 286.5 |
| 55° | 285.7 | 276.9 | 268.0 | 262.2 | 259.1 | 256.1 | 253.1 | 250.0 |
| 57.5° | 247.0 | 238.7 | 230.4 | 225.0 | 222.4 | 219.8 | 217.2 | 214.6 |
| 60° | 222.7 | 214.5 | 206.3 | 200.9 | 198.3 | 195.7 | 193.1 | 190.6 |
| 62.5° | 198.5 | 190.8 | 183.1 | 177.9 | 175.2 | 172.5 | 169.8 | 167.1 |
| 65° | 164.1 | 156.7 | 149.2 | 144.6 | 143.0 | 141.3 | 139.6 | 137.9 |
| 67.5° | 131.3 | 125.6 | 120.1 | 116.5 | 114.7 | 112.9 | 111.1 | 109.3 |
| 70° | 110.9 | 105.7 | 100.3 | 96.8 | 95.1 | 93.5 | 91.8 | 90.2 |
| 72.5° | 92.6 | 88.4 | 84.0 | 81.5 | 80.8 | 80.1 | 79.4 | 78.6 |
| 75° | 69.4 | 67.9 | 66.3 | 65.5 | 65.1 | 64.8 | 64.5 | 64.2 |
| 77.5° | 52.3 | 51.5 | 50.6 | 50.1 | 49.8 | 49.5 | 49.2 | 48.9 |
| 80° | 42.1 | 41.6 | 41.2 | 40.8 | 40.6 | 40.2 | 39.9 | 39.6 |
| 82.5° | 32.3 | 31.8 | 31.4 | 31.1 | 31.0 | 31.0 | 30.9 | 30.9 |
| 85° | 18.5 | 18.2 | 17.9 | 17.7 | 17.7 | 17.7 | 17.7 | 17.7 |
| 87.5° | 8.5 | 8.4 | 8.4 | 8.3 | 8.2 | 8.1 | 8.0 | 7.9 |
| 90° | 8.1 | 8.4 | 8.6 | 8.9 | 9.0 | 9.2 | 9.3 | 9.5 |
| 92.5° | 12.6 | 12.8 | 13.0 | 13.1 | 13.0 | 12.9 | 12.8 | 12.8 |
| 95° | 23.9 | 24.2 | 24.4 | 24.6 | 24.6 | 24.6 | 24.6 | 24.6 |
| 97.5° | 37.1 | 37.5 | 37.8 | 37.9 | 37.9 | 37.9 | 37.8 | 37.8 |
| 100° | 46.7 | 47.0 | 47.2 | 47.3 | 47.4 | 47.6 | 47.8 | 47.9 |
| 102.5° | 57.9 | 58.1 | 58.2 | 58.3 | 58.3 | 58.3 | 58.2 | 58.2 |
| 105° | 74.4 | 74.4 | 74.4 | 74.5 | 74.5 | 74.7 | 74.9 | 75.0 |
| 107.5° | 92.3 | 92.5 | 92.7 | 92.8 | 92.7 | 92.6 | 92.6 | 92.5 |
| 110° | 104.2 | 104.5 | 104.8 | 104.9 | 104.7 | 104.6 | 104.4 | 104.3 |



TEST NUMBER: P332274-940

CATALOG NUMBER: S123RDIP-S560D365U940-4F0-1E-UDD-F1

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 116.2 | 116.5 | 116.9 | 117.0 | 117.0 | 117.0 | 116.9 | 116.9 |
| 115° | 134.4 | 134.5 | 134.6 | 134.6 | 134.5 | 134.4 | 134.3 | 134.2 |
| 117.5° | 152.8 | 152.8 | 152.8 | 152.6 | 152.4 | 152.2 | 152.0 | 151.9 |
| 120° | 165.0 | 164.9 | 164.9 | 164.7 | 164.6 | 164.4 | 164.3 | 164.2 |
| 122.5° | 177.4 | 177.2 | 177.0 | 176.8 | 176.6 | 176.4 | 176.2 | 176.0 |
| 125° | 195.7 | 195.5 | 195.2 | 194.9 | 194.7 | 194.4 | 194.0 | 193.8 |
| 127.5° | 213.9 | 213.6 | 213.1 | 212.8 | 212.5 | 212.1 | 211.9 | 211.5 |
| 130° | 226.0 | 225.7 | 225.4 | 225.1 | 224.6 | 224.1 | 223.6 | 223.1 |
| 132.5° | 237.7 | 237.4 | 237.1 | 236.7 | 236.3 | 235.9 | 235.6 | 235.2 |
| 135° | 255.3 | 255.0 | 254.8 | 254.6 | 254.4 | 254.2 | 254.1 | 254.0 |
| 137.5° | 272.5 | 272.2 | 271.9 | 271.6 | 271.3 | 271.1 | 270.8 | 270.5 |
| 140° | 283.7 | 283.7 | 283.7 | 283.4 | 282.9 | 282.4 | 281.9 | 281.4 |
| 142.5° | 294.4 | 294.3 | 294.3 | 294.0 | 293.6 | 293.3 | 292.8 | 292.5 |
| 145° | 310.0 | 309.9 | 309.8 | 309.6 | 309.3 | 309.1 | 308.8 | 308.5 |
| 147.5° | 324.7 | 324.7 | 324.7 | 324.4 | 324.0 | 323.6 | 323.2 | 322.7 |
| 150° | 333.7 | 333.7 | 333.7 | 333.5 | 333.1 | 332.7 | 332.3 | 331.8 |
| 152.5° | 342.0 | 342.1 | 342.2 | 342.1 | 341.7 | 341.3 | 341.0 | 340.6 |
| 155° | 354.1 | 354.4 | 354.7 | 354.5 | 354.1 | 353.6 | 353.1 | 352.6 |
| 157.5° | 364.5 | 364.9 | 365.2 | 365.1 | 364.7 | 364.4 | 363.9 | 363.6 |
| 160° | 371.0 | 371.3 | 371.7 | 371.7 | 371.4 | 371.1 | 370.9 | 370.6 |
| 162.5° | 377.0 | 377.4 | 377.7 | 377.6 | 377.2 | 376.7 | 376.3 | 375.9 |
| 165° | 384.7 | 385.0 | 385.5 | 385.5 | 385.0 | 384.5 | 384.0 | 383.5 |
| 167.5° | 390.8 | 391.3 | 391.7 | 391.7 | 391.3 | 390.8 | 390.4 | 390.0 |
| 170° | 394.2 | 394.8 | 395.2 | 395.2 | 394.8 | 394.2 | 393.8 | 393.2 |
| 172.5° | 396.9 | 397.3 | 397.8 | 397.8 | 397.3 | 396.8 | 396.3 | 395.8 |
| 175° | 399.8 | 400.2 | 400.6 | 400.6 | 400.1 | 399.6 | 399.1 | 398.6 |
| 177.5° | 401.1 | 401.4 | 401.7 | 401.7 | 401.4 | 400.9 | 400.6 | 400.1 |
| 180° | 401.2 | 401.2 | 401.2 | 401.2 | 401.2 | 401.2 | 401.2 | 401.2 |

(END OF REPORT)