

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: P332281

Luminaire Tested: **S123RDIP-S560D585U835-4F0-1E-UDD-F4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332281
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-S560D585U835-4F0-1E-UDD-F4
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 560 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER, REGRESSED
HOUSING
UPLIGHT 585 LUMENS PER FOOT, BATWING OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4255.7 lumens
Efficiency: N/A
Efficacy: 129.7 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: General Diffuse

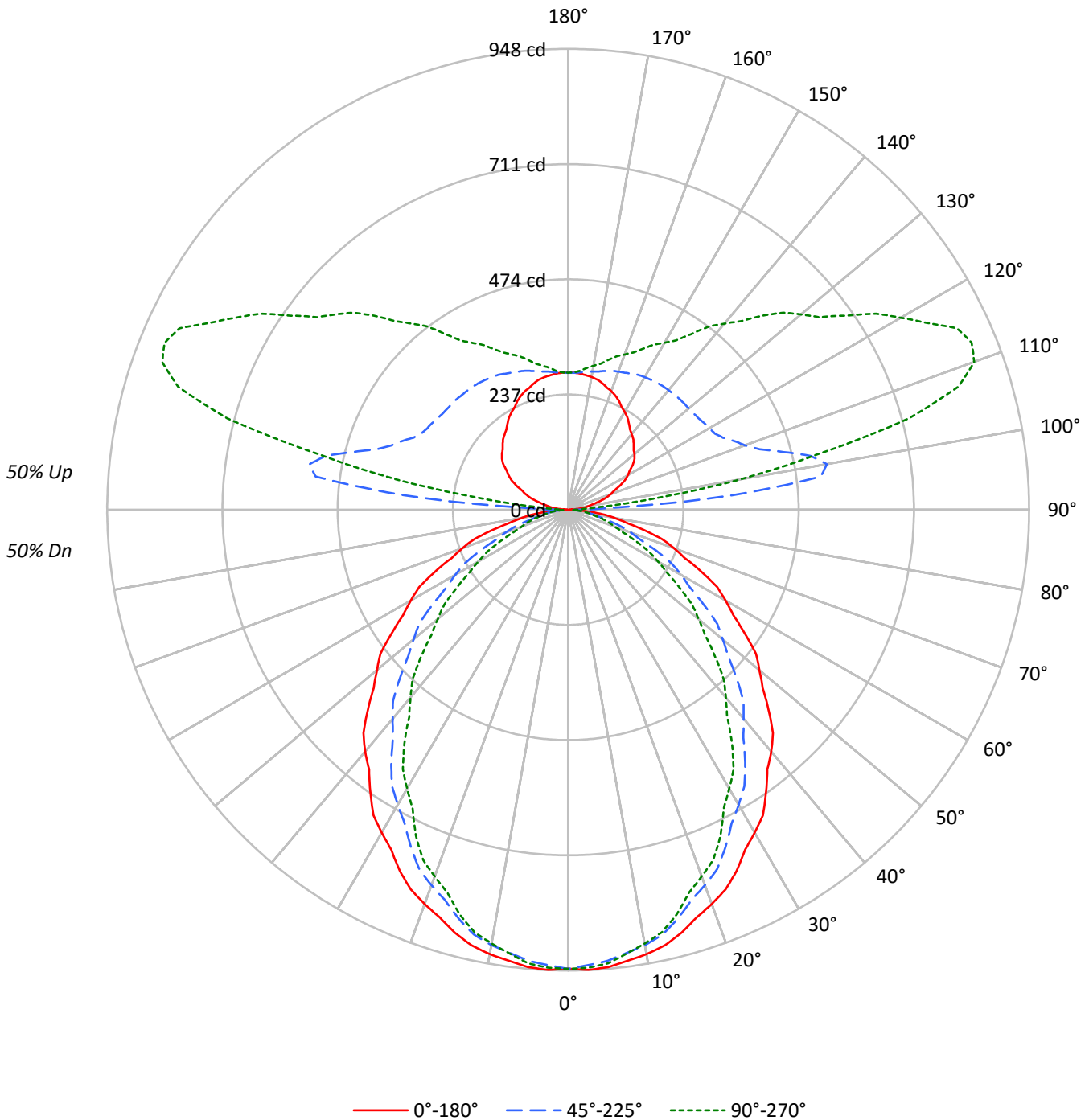
Input Watts (W): 32.8
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P332281

CATALOG NUMBER: S123RDIP-S560D585U835-4F0-1E-UDD-F4

Luminous Intensity Polar Plot





TEST NUMBER: P332281

CATALOG NUMBER: S123RDIP-S560D585U835-4F0-1E-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 | 107 | 107 | 107 | 107 | 99 | 99 | 99 | 99 | 83 | 83 | 83 | 69 | 69 | 69 | 56 | 56 | 56 | 50 |
| 1 | 98 | 94 | 90 | 87 | 90 | 87 | 84 | 81 | 74 | 71 | 69 | 61 | 60 | 58 | 50 | 49 | 48 | 43 |
| 2 | 90 | 82 | 76 | 71 | 83 | 76 | 71 | 67 | 65 | 61 | 58 | 54 | 52 | 49 | 45 | 43 | 41 | 36 |
| 3 | 82 | 73 | 66 | 60 | 75 | 67 | 61 | 56 | 58 | 53 | 49 | 48 | 45 | 42 | 40 | 37 | 35 | 31 |
| 4 | 75 | 65 | 57 | 51 | 69 | 60 | 53 | 48 | 51 | 46 | 42 | 43 | 39 | 36 | 36 | 33 | 31 | 27 |
| 5 | 69 | 58 | 50 | 44 | 64 | 54 | 47 | 41 | 46 | 41 | 36 | 39 | 35 | 32 | 32 | 29 | 27 | 24 |
| 6 | 64 | 52 | 44 | 38 | 59 | 48 | 41 | 36 | 42 | 36 | 32 | 35 | 31 | 28 | 29 | 26 | 24 | 21 |
| 7 | 59 | 47 | 39 | 34 | 54 | 44 | 37 | 32 | 38 | 32 | 28 | 32 | 28 | 25 | 27 | 24 | 21 | 19 |
| 8 | 55 | 43 | 35 | 30 | 51 | 40 | 33 | 28 | 34 | 29 | 25 | 30 | 25 | 22 | 25 | 22 | 19 | 17 |
| 9 | 51 | 39 | 32 | 27 | 47 | 36 | 30 | 25 | 32 | 26 | 23 | 27 | 23 | 20 | 23 | 20 | 17 | 15 |
| 10 | 48 | 36 | 29 | 24 | 44 | 34 | 27 | 23 | 29 | 24 | 20 | 25 | 21 | 18 | 21 | 18 | 16 | 14 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 10167 | 10167 | 10167 |
| 5° | 10205 | 10065 | 10122 |
| 10° | 10147 | 9939 | 9905 |
| 15° | 10038 | 9706 | 9604 |
| 20° | 9889 | 9415 | 9196 |
| 25° | 9734 | 9089 | 8797 |
| 30° | 9531 | 8712 | 8236 |
| 35° | 9320 | 8335 | 7720 |
| 40° | 9128 | 7890 | 7082 |
| 45° | 8873 | 7451 | 6506 |
| 50° | 8594 | 6953 | 5863 |
| 55° | 8310 | 6382 | 5262 |
| 60° | 8047 | 5772 | 4600 |
| 65° | 7707 | 5112 | 3940 |
| 70° | 7279 | 4293 | 3182 |
| 75° | 6658 | 3377 | 2994 |
| 80° | 5938 | 2994 | 2752 |
| 85° | 5014 | 2643 | 2458 |



TEST NUMBER: P332281

CATALOG NUMBER: S123RDIP-S560D585U835-4F0-1E-UDD-F4

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 88.7 | 2.1 |
| 10°-20° | 246.8 | 5.8 |
| 20°-30° | 355.3 | 8.3 |
| 30°-40° | 400.3 | 9.4 |
| 40°-50° | 382.9 | 9.0 |
| 50°-60° | 313.6 | 7.4 |
| 60°-70° | 211.6 | 5.0 |
| 70°-80° | 106.4 | 2.5 |
| 80°-90° | 30.3 | 0.7 |
| 90°-100° | 156.8 | 3.7 |
| 100°-110° | 444.0 | 10.4 |
| 110°-120° | 436.8 | 10.3 |
| 120°-130° | 348.4 | 8.2 |
| 130°-140° | 274.7 | 6.5 |
| 140°-150° | 205.0 | 4.8 |
| 150°-160° | 142.9 | 3.4 |
| 160°-170° | 83.9 | 2.0 |
| 170°-180° | 27.3 | 0.6 |
| 0°-30° | 690.8 | 16.2 |
| 0°-40° | 1091.1 | 25.6 |
| 0°-60° | 1787.6 | 42.0 |
| 0°-90° | 2135.9 | 50.2 |
| 90°-120° | 1037.6 | 24.4 |
| 90°-150° | 1865.7 | 43.8 |
| 90°-180° | 2120.0 | 49.8 |
| 0°-180° | 4255.7 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|-----|-------|-----|-------|-----|------|
| 0° | 944 | 944 | 944 | 944 | 944 | |
| 5° | 944 | 940 | 932 | 938 | 937 | 90 |
| 15° | 901 | 892 | 871 | 867 | 862 | 254 |
| 25° | 820 | 800 | 765 | 750 | 741 | 377 |
| 35° | 709 | 681 | 634 | 602 | 588 | 444 |
| 45° | 583 | 547 | 490 | 447 | 427 | 450 |
| 55° | 443 | 404 | 340 | 297 | 280 | 397 |
| 65° | 303 | 259 | 201 | 165 | 155 | 299 |
| 75° | 160 | 123 | 81 | 74 | 72 | 171 |
| 85° | 41 | 25 | 21 | 20 | 20 | 46 |
| 90° | 1 | 7 | 14 | 16 | 16 | 3 |
| 95° | 19 | 63 | 338 | 99 | 66 | 21 |
| 105° | 66 | 98 | 459 | 802 | 726 | 70 |
| 115° | 117 | 146 | 351 | 769 | 882 | 116 |
| 125° | 163 | 192 | 327 | 593 | 696 | 144 |
| 135° | 190 | 227 | 323 | 489 | 564 | 147 |
| 145° | 217 | 249 | 319 | 401 | 441 | 136 |
| 155° | 247 | 266 | 309 | 351 | 366 | 114 |
| 165° | 270 | 278 | 296 | 313 | 319 | 76 |
| 175° | 281 | 282 | 284 | 288 | 287 | 27 |
| 180° | 282 | 282 | 282 | 282 | 282 | |



TEST NUMBER: P332281

CATALOG NUMBER: S123RDIP-S560D585U835-4F0-1E-UDD-F4

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 944.5 | 944.5 | 944.5 | 944.5 | 944.5 | 944.5 | 944.5 | 944.5 | 944.5 | 944.5 | 944.5 |
| 2.5° | 947.6 | 947.0 | 946.5 | 945.9 | 945.4 | 944.3 | 942.7 | 941.0 | 939.4 | 937.8 | 939.3 |
| 5° | 944.5 | 943.7 | 942.8 | 942.0 | 941.1 | 939.7 | 937.6 | 935.6 | 933.5 | 931.5 | 933.0 |
| 7.5° | 935.8 | 934.9 | 933.9 | 933.0 | 932.1 | 930.3 | 927.7 | 925.0 | 922.3 | 919.7 | 920.5 |
| 10° | 928.4 | 927.2 | 926.0 | 924.8 | 923.7 | 921.5 | 918.5 | 915.4 | 912.3 | 909.3 | 909.4 |
| 12.5° | 918.0 | 916.7 | 915.3 | 914.0 | 912.7 | 910.2 | 906.4 | 902.7 | 898.9 | 895.2 | 895.1 |
| 15° | 900.8 | 899.0 | 897.1 | 895.2 | 893.4 | 890.0 | 885.3 | 880.5 | 875.7 | 871.0 | 870.1 |
| 17.5° | 879.2 | 877.1 | 874.9 | 872.7 | 870.5 | 866.4 | 860.3 | 854.3 | 848.2 | 842.2 | 840.4 |
| 20° | 863.3 | 860.6 | 857.9 | 855.1 | 852.4 | 847.8 | 841.3 | 834.9 | 828.4 | 821.9 | 819.7 |
| 22.5° | 845.5 | 842.4 | 839.3 | 836.1 | 833.0 | 828.0 | 821.1 | 814.2 | 807.4 | 800.5 | 797.7 |
| 25° | 819.6 | 815.4 | 811.1 | 806.9 | 802.6 | 796.6 | 788.7 | 780.9 | 773.1 | 765.3 | 761.7 |
| 27.5° | 788.2 | 783.5 | 778.8 | 774.1 | 769.4 | 762.7 | 754.0 | 745.3 | 736.6 | 727.9 | 722.9 |
| 30° | 766.8 | 761.7 | 756.6 | 751.5 | 746.4 | 739.0 | 729.5 | 720.0 | 710.4 | 700.9 | 695.1 |
| 32.5° | 745.3 | 739.6 | 733.8 | 728.0 | 722.2 | 714.3 | 704.2 | 694.1 | 684.0 | 673.9 | 667.6 |
| 35° | 709.3 | 703.2 | 697.1 | 691.0 | 684.8 | 676.5 | 665.9 | 655.4 | 644.8 | 634.3 | 626.9 |
| 37.5° | 672.9 | 666.1 | 659.3 | 652.4 | 645.6 | 636.6 | 625.3 | 614.1 | 602.8 | 591.5 | 583.2 |
| 40° | 649.6 | 642.1 | 634.6 | 627.1 | 619.6 | 609.8 | 597.8 | 585.7 | 573.6 | 561.5 | 552.6 |
| 42.5° | 623.2 | 615.7 | 608.3 | 600.8 | 593.3 | 583.3 | 570.8 | 558.3 | 545.8 | 533.3 | 523.6 |
| 45° | 582.9 | 575.3 | 567.6 | 560.0 | 552.3 | 541.9 | 528.8 | 515.7 | 502.6 | 489.5 | 479.8 |
| 47.5° | 542.6 | 534.2 | 525.8 | 517.4 | 509.0 | 498.3 | 485.1 | 472.0 | 458.9 | 445.8 | 435.3 |
| 50° | 513.2 | 505.2 | 497.2 | 489.2 | 481.2 | 470.3 | 456.5 | 442.8 | 429.0 | 415.2 | 404.6 |
| 52.5° | 486.9 | 478.2 | 469.5 | 460.8 | 452.2 | 441.0 | 427.3 | 413.7 | 400.0 | 386.4 | 375.4 |
| 55° | 442.8 | 434.4 | 426.1 | 417.7 | 409.4 | 398.0 | 383.5 | 369.1 | 354.6 | 340.1 | 330.2 |
| 57.5° | 402.0 | 392.9 | 383.8 | 374.7 | 365.6 | 353.8 | 339.3 | 324.8 | 310.2 | 295.7 | 286.4 |
| 60° | 373.8 | 364.5 | 355.1 | 345.7 | 336.4 | 324.6 | 310.5 | 296.4 | 282.2 | 268.1 | 258.9 |
| 62.5° | 345.6 | 336.3 | 326.9 | 317.5 | 308.2 | 296.4 | 282.3 | 268.2 | 254.0 | 239.9 | 231.3 |
| 65° | 302.6 | 293.2 | 283.9 | 274.5 | 265.1 | 253.8 | 240.5 | 227.3 | 214.0 | 200.7 | 192.4 |
| 67.5° | 259.5 | 250.1 | 240.6 | 231.1 | 221.7 | 210.6 | 197.8 | 185.1 | 172.4 | 159.6 | 153.4 |
| 70° | 231.3 | 222.1 | 213.0 | 203.8 | 194.6 | 184.0 | 172.1 | 160.2 | 148.3 | 136.4 | 130.4 |
| 72.5° | 203.1 | 194.1 | 185.0 | 176.0 | 166.9 | 157.0 | 146.2 | 135.3 | 124.5 | 113.7 | 108.8 |
| 75° | 160.1 | 151.9 | 143.8 | 135.6 | 127.4 | 118.6 | 109.3 | 99.9 | 90.6 | 81.2 | 79.5 |
| 77.5° | 120.9 | 113.5 | 106.1 | 98.7 | 91.3 | 84.6 | 78.6 | 72.6 | 66.5 | 60.5 | 59.6 |
| 80° | 95.8 | 88.8 | 81.8 | 74.8 | 67.8 | 62.6 | 59.0 | 55.4 | 51.8 | 48.3 | 47.7 |
| 82.5° | 71.9 | 65.8 | 59.8 | 53.8 | 47.7 | 43.9 | 42.2 | 40.6 | 38.9 | 37.2 | 36.7 |
| 85° | 40.6 | 36.9 | 33.1 | 29.4 | 25.6 | 23.5 | 23.0 | 22.5 | 22.0 | 21.4 | 21.1 |
| 87.5° | 14.9 | 13.7 | 12.4 | 11.2 | 10.0 | 9.4 | 9.8 | 10.1 | 10.5 | 10.8 | 10.6 |
| 90° | 1.1 | 2.3 | 3.4 | 5.1 | 6.3 | 7.4 | 9.1 | 10.8 | 12.5 | 14.3 | 13.7 |
| 92.5° | 7.1 | 10.5 | 15.3 | 19.7 | 24.5 | 33.0 | 47.9 | 72.4 | 96.5 | 87.7 | 66.2 |
| 95° | 19.4 | 21.1 | 27.4 | 37.1 | 51.9 | 74.1 | 122.6 | 207.6 | 301.2 | 338.2 | 274.3 |
| 97.5° | 33.1 | 33.7 | 38.6 | 47.0 | 61.6 | 85.7 | 132.0 | 227.8 | 383.7 | 524.2 | 560.8 |
| 100° | 42.2 | 42.8 | 46.8 | 54.8 | 68.4 | 90.7 | 130.6 | 215.0 | 365.0 | 540.1 | 652.5 |
| 102.5° | 51.8 | 52.8 | 56.4 | 63.9 | 76.2 | 96.6 | 132.4 | 204.1 | 337.7 | 510.5 | 657.1 |
| 105° | 66.2 | 67.9 | 71.3 | 78.1 | 89.0 | 106.7 | 137.5 | 196.2 | 304.0 | 458.6 | 622.3 |
| 107.5° | 81.4 | 83.2 | 86.5 | 93.2 | 103.4 | 119.8 | 146.8 | 195.6 | 282.6 | 412.7 | 561.4 |
| 110° | 92.4 | 94.1 | 97.0 | 103.2 | 112.9 | 128.9 | 154.6 | 197.9 | 274.3 | 386.7 | 523.0 |



TEST NUMBER: P332281

CATALOG NUMBER: S123RDIP-S560D585U835-4F0-1E-UDD-F4

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 102.4 | 104.2 | 107.0 | 113.3 | 123.0 | 138.5 | 162.3 | 202.5 | 269.8 | 369.4 | 489.7 |
| 115° | 116.9 | 119.2 | 122.6 | 128.3 | 138.0 | 153.4 | 175.1 | 209.9 | 268.1 | 350.8 | 449.5 |
| 117.5° | 131.4 | 134.0 | 136.9 | 142.1 | 153.0 | 167.2 | 188.7 | 219.7 | 269.1 | 339.8 | 425.2 |
| 120° | 141.5 | 143.2 | 146.0 | 151.7 | 162.6 | 176.8 | 197.3 | 227.0 | 270.9 | 334.8 | 412.4 |
| 122.5° | 150.1 | 151.8 | 154.7 | 160.8 | 171.2 | 186.4 | 206.5 | 233.9 | 274.1 | 331.6 | 401.9 |
| 125° | 162.6 | 163.7 | 167.1 | 173.4 | 184.2 | 199.6 | 219.6 | 244.7 | 278.9 | 327.4 | 388.4 |
| 127.5° | 172.0 | 173.7 | 178.0 | 184.3 | 196.3 | 211.7 | 231.0 | 253.6 | 284.4 | 325.3 | 376.6 |
| 130° | 178.0 | 179.7 | 184.8 | 191.6 | 203.6 | 219.0 | 237.8 | 259.5 | 288.0 | 324.0 | 370.2 |
| 132.5° | 182.5 | 184.7 | 190.3 | 198.5 | 210.5 | 225.4 | 243.8 | 265.0 | 290.8 | 323.5 | 364.2 |
| 135° | 190.5 | 192.8 | 199.1 | 207.6 | 219.6 | 235.0 | 252.7 | 272.1 | 294.9 | 322.8 | 356.5 |
| 137.5° | 198.0 | 200.4 | 206.6 | 215.7 | 227.6 | 241.8 | 258.8 | 277.3 | 297.6 | 321.6 | 349.8 |
| 140° | 203.1 | 205.9 | 211.6 | 220.7 | 232.1 | 246.4 | 262.9 | 280.1 | 299.4 | 321.1 | 345.6 |
| 142.5° | 208.5 | 210.9 | 217.1 | 225.3 | 236.7 | 250.1 | 266.1 | 282.8 | 300.8 | 320.2 | 342.0 |
| 145° | 217.3 | 219.0 | 224.2 | 232.7 | 242.4 | 255.5 | 270.4 | 285.8 | 301.7 | 318.8 | 337.1 |
| 147.5° | 226.2 | 227.2 | 232.3 | 239.7 | 249.0 | 260.2 | 273.8 | 287.6 | 301.7 | 316.7 | 332.3 |
| 150° | 232.1 | 232.7 | 237.3 | 244.7 | 252.7 | 262.9 | 276.1 | 288.0 | 301.7 | 314.8 | 329.1 |
| 152.5° | 238.1 | 238.2 | 242.8 | 249.3 | 256.3 | 266.1 | 277.4 | 289.0 | 300.4 | 312.6 | 325.5 |
| 155° | 247.0 | 247.0 | 250.4 | 256.1 | 262.4 | 270.4 | 280.1 | 289.2 | 298.9 | 308.6 | 320.0 |
| 157.5° | 254.0 | 254.5 | 257.2 | 262.3 | 267.6 | 273.8 | 281.5 | 289.8 | 296.9 | 305.0 | 313.8 |
| 160° | 259.5 | 259.5 | 261.8 | 266.4 | 270.4 | 276.1 | 282.9 | 289.8 | 296.0 | 302.3 | 309.7 |
| 162.5° | 263.6 | 263.6 | 265.5 | 269.1 | 272.6 | 277.4 | 283.4 | 289.3 | 294.2 | 299.6 | 305.6 |
| 165° | 269.8 | 269.2 | 270.4 | 273.2 | 275.5 | 279.5 | 284.0 | 288.0 | 291.5 | 295.5 | 300.0 |
| 167.5° | 274.5 | 273.8 | 274.3 | 276.5 | 278.1 | 280.6 | 283.9 | 287.1 | 288.7 | 291.3 | 294.7 |
| 170° | 277.2 | 276.1 | 276.6 | 278.3 | 279.5 | 280.6 | 283.5 | 285.8 | 286.9 | 288.6 | 291.5 |
| 172.5° | 279.0 | 278.3 | 278.5 | 279.7 | 280.4 | 281.1 | 283.5 | 285.3 | 285.5 | 286.3 | 288.3 |
| 175° | 281.2 | 280.6 | 280.1 | 281.2 | 281.2 | 281.8 | 282.9 | 284.0 | 283.5 | 283.5 | 284.6 |
| 177.5° | 282.2 | 281.8 | 281.3 | 281.8 | 281.8 | 281.8 | 282.2 | 283.1 | 282.2 | 281.8 | 282.2 |
| 180° | 281.8 | 281.8 | 281.8 | 281.8 | 281.8 | 281.8 | 281.8 | 281.8 | 281.8 | 281.8 | 281.8 |



TEST NUMBER: P332281

CATALOG NUMBER: S123RDIP-S560D585U835-4F0-1E-UDD-F4

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 944.5 | 944.5 | 944.5 | 944.5 | 944.5 | 944.5 | 944.5 | 944.5 |
| 2.5° | 940.8 | 942.3 | 943.8 | 944.4 | 944.1 | 943.8 | 943.6 | 943.3 |
| 5° | 934.5 | 936.1 | 937.6 | 938.2 | 937.9 | 937.5 | 937.2 | 936.8 |
| 7.5° | 921.4 | 922.2 | 923.1 | 923.2 | 922.6 | 922.1 | 921.5 | 920.9 |
| 10° | 909.6 | 909.8 | 909.9 | 909.6 | 908.8 | 907.9 | 907.1 | 906.2 |
| 12.5° | 895.0 | 894.9 | 894.8 | 894.2 | 893.2 | 892.2 | 891.3 | 890.3 |
| 15° | 869.3 | 868.4 | 867.6 | 866.5 | 865.3 | 864.2 | 863.0 | 861.8 |
| 17.5° | 838.6 | 836.8 | 834.9 | 833.2 | 831.4 | 829.6 | 827.8 | 826.1 |
| 20° | 817.5 | 815.3 | 813.1 | 811.0 | 808.9 | 806.9 | 804.8 | 802.8 |
| 22.5° | 795.0 | 792.2 | 789.5 | 787.1 | 785.2 | 783.3 | 781.4 | 779.5 |
| 25° | 758.1 | 754.5 | 751.0 | 748.2 | 746.4 | 744.5 | 742.6 | 740.7 |
| 27.5° | 717.9 | 713.0 | 708.0 | 704.1 | 701.2 | 698.4 | 695.5 | 692.6 |
| 30° | 689.3 | 683.5 | 677.8 | 673.5 | 670.8 | 668.1 | 665.3 | 662.6 |
| 32.5° | 661.3 | 654.9 | 648.6 | 644.0 | 641.2 | 638.3 | 635.4 | 632.6 |
| 35° | 619.6 | 612.3 | 605.0 | 599.8 | 596.7 | 593.7 | 590.6 | 587.5 |
| 37.5° | 574.9 | 566.6 | 558.3 | 552.3 | 548.5 | 544.7 | 540.9 | 537.1 |
| 40° | 543.8 | 534.9 | 526.1 | 519.7 | 515.8 | 511.9 | 508.0 | 504.0 |
| 42.5° | 514.0 | 504.3 | 494.6 | 488.0 | 484.5 | 481.0 | 477.5 | 474.0 |
| 45° | 470.1 | 460.4 | 450.7 | 443.8 | 439.7 | 435.6 | 431.5 | 427.4 |
| 47.5° | 424.7 | 414.2 | 403.6 | 396.5 | 392.9 | 389.2 | 385.6 | 381.9 |
| 50° | 394.1 | 383.5 | 373.0 | 365.7 | 361.8 | 357.9 | 354.0 | 350.1 |
| 52.5° | 364.5 | 353.5 | 342.5 | 335.3 | 331.8 | 328.3 | 324.8 | 321.3 |
| 55° | 320.4 | 310.5 | 300.6 | 294.0 | 290.6 | 287.2 | 283.8 | 280.4 |
| 57.5° | 277.0 | 267.7 | 258.4 | 252.3 | 249.4 | 246.5 | 243.6 | 240.7 |
| 60° | 249.7 | 240.5 | 231.3 | 225.3 | 222.4 | 219.5 | 216.6 | 213.7 |
| 62.5° | 222.6 | 214.0 | 205.3 | 199.5 | 196.5 | 193.4 | 190.4 | 187.4 |
| 65° | 184.0 | 175.7 | 167.3 | 162.2 | 160.4 | 158.5 | 156.6 | 154.7 |
| 67.5° | 147.2 | 140.9 | 134.7 | 130.6 | 128.6 | 126.6 | 124.6 | 122.6 |
| 70° | 124.4 | 118.5 | 112.5 | 108.6 | 106.7 | 104.9 | 103.0 | 101.1 |
| 72.5° | 103.9 | 99.1 | 94.2 | 91.4 | 90.6 | 89.8 | 89.0 | 88.2 |
| 75° | 77.8 | 76.1 | 74.4 | 73.4 | 73.0 | 72.7 | 72.3 | 72.0 |
| 77.5° | 58.7 | 57.8 | 56.8 | 56.2 | 55.9 | 55.5 | 55.2 | 54.8 |
| 80° | 47.2 | 46.7 | 46.2 | 45.8 | 45.5 | 45.1 | 44.8 | 44.4 |
| 82.5° | 36.2 | 35.7 | 35.2 | 34.9 | 34.8 | 34.8 | 34.7 | 34.6 |
| 85° | 20.8 | 20.4 | 20.1 | 19.9 | 19.9 | 19.9 | 19.9 | 19.9 |
| 87.5° | 10.5 | 10.5 | 10.5 | 10.6 | 10.3 | 10.3 | 10.3 | 10.0 |
| 90° | 14.3 | 14.8 | 15.4 | 16.5 | 16.0 | 16.5 | 17.1 | 16.5 |
| 92.5° | 48.0 | 38.1 | 33.7 | 30.7 | 29.7 | 27.9 | 28.5 | 27.5 |
| 95° | 205.3 | 139.2 | 108.9 | 88.4 | 77.6 | 72.4 | 68.4 | 66.2 |
| 97.5° | 511.9 | 410.0 | 336.4 | 268.2 | 226.1 | 200.4 | 185.0 | 180.1 |
| 100° | 672.5 | 626.3 | 559.5 | 478.5 | 420.9 | 379.3 | 357.1 | 357.6 |
| 102.5° | 725.9 | 724.4 | 685.5 | 634.1 | 589.3 | 556.3 | 537.7 | 524.6 |
| 105° | 741.5 | 798.5 | 809.4 | 794.5 | 768.3 | 746.6 | 728.4 | 725.5 |
| 107.5° | 696.5 | 789.2 | 839.1 | 859.4 | 859.9 | 852.6 | 846.4 | 841.2 |
| 110° | 653.6 | 758.6 | 830.5 | 870.4 | 886.4 | 890.9 | 889.8 | 888.6 |



TEST NUMBER: P332281

CATALOG NUMBER: S123RDIP-S560D585U835-4F0-1E-UDD-F4

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 611.2 | 718.4 | 799.0 | 850.3 | 879.5 | 893.7 | 898.0 | 898.2 |
| 115° | 555.0 | 654.2 | 738.1 | 800.2 | 843.0 | 868.1 | 879.5 | 882.4 |
| 117.5° | 514.2 | 599.9 | 675.2 | 738.3 | 782.9 | 811.6 | 828.1 | 831.9 |
| 120° | 492.8 | 569.8 | 638.2 | 695.9 | 740.9 | 772.9 | 786.5 | 790.0 |
| 122.5° | 475.9 | 545.6 | 609.0 | 662.5 | 702.6 | 731.3 | 746.4 | 750.7 |
| 125° | 453.4 | 515.6 | 570.4 | 616.0 | 652.5 | 677.6 | 691.9 | 695.9 |
| 127.5° | 433.8 | 489.3 | 538.7 | 580.2 | 612.7 | 634.1 | 647.0 | 650.7 |
| 130° | 421.5 | 472.8 | 519.0 | 557.8 | 588.1 | 608.6 | 620.6 | 625.1 |
| 132.5° | 410.1 | 457.3 | 500.3 | 537.3 | 565.7 | 586.2 | 596.8 | 600.0 |
| 135° | 394.7 | 435.2 | 472.3 | 504.8 | 532.7 | 549.8 | 560.1 | 564.1 |
| 137.5° | 380.7 | 413.9 | 445.8 | 474.0 | 497.5 | 514.8 | 523.5 | 526.1 |
| 140° | 372.5 | 401.5 | 428.9 | 453.4 | 475.1 | 491.1 | 500.2 | 499.6 |
| 142.5° | 364.7 | 389.7 | 413.4 | 434.7 | 453.2 | 467.4 | 475.6 | 475.0 |
| 145° | 355.3 | 374.2 | 392.4 | 409.0 | 423.2 | 435.2 | 439.8 | 440.9 |
| 147.5° | 347.7 | 362.6 | 377.4 | 389.1 | 399.9 | 408.0 | 412.4 | 412.8 |
| 150° | 342.2 | 355.3 | 367.3 | 378.2 | 386.7 | 393.0 | 396.4 | 396.4 |
| 152.5° | 337.2 | 348.5 | 359.1 | 368.1 | 374.8 | 380.7 | 382.7 | 382.7 |
| 155° | 329.7 | 338.8 | 347.4 | 354.2 | 359.3 | 363.9 | 365.0 | 365.6 |
| 157.5° | 321.7 | 329.3 | 336.0 | 341.3 | 345.8 | 349.2 | 350.1 | 350.0 |
| 160° | 317.1 | 323.4 | 329.1 | 333.1 | 337.1 | 340.5 | 340.5 | 339.9 |
| 162.5° | 311.7 | 317.0 | 322.3 | 325.8 | 328.4 | 331.4 | 331.4 | 330.8 |
| 165° | 304.6 | 308.0 | 312.0 | 314.8 | 317.1 | 319.4 | 318.8 | 318.8 |
| 167.5° | 298.4 | 301.0 | 303.3 | 305.4 | 306.4 | 308.0 | 307.4 | 307.4 |
| 170° | 294.3 | 296.0 | 298.3 | 299.4 | 300.0 | 301.2 | 300.6 | 300.6 |
| 172.5° | 290.7 | 291.9 | 293.7 | 294.4 | 294.5 | 295.7 | 294.7 | 294.2 |
| 175° | 285.8 | 286.3 | 287.5 | 287.5 | 287.5 | 288.0 | 287.5 | 286.9 |
| 177.5° | 282.7 | 283.1 | 283.6 | 283.6 | 283.1 | 283.6 | 282.7 | 282.7 |
| 180° | 281.8 | 281.8 | 281.8 | 281.8 | 281.8 | 281.8 | 281.8 | 281.8 |

(END OF REPORT)