

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: P333177-830

Luminaire Tested: **S125DIP-S610D590U830-4F0-1E-UDD-F4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P333177-830
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-19,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S125DIP-S610D590U830-4F0-1E-UDD-F4
Description: DEFINE 5 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 610 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
UPLIGHT 590 LUMENS PER FOOT, BATWING OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4356.8 lumens
Efficiency: N/A
Efficacy: 132.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.18 / 1.31
Luminous Opening: Rectangular (W 0.42' x L: 4' x H: 0')
CIE Type: General Diffuse

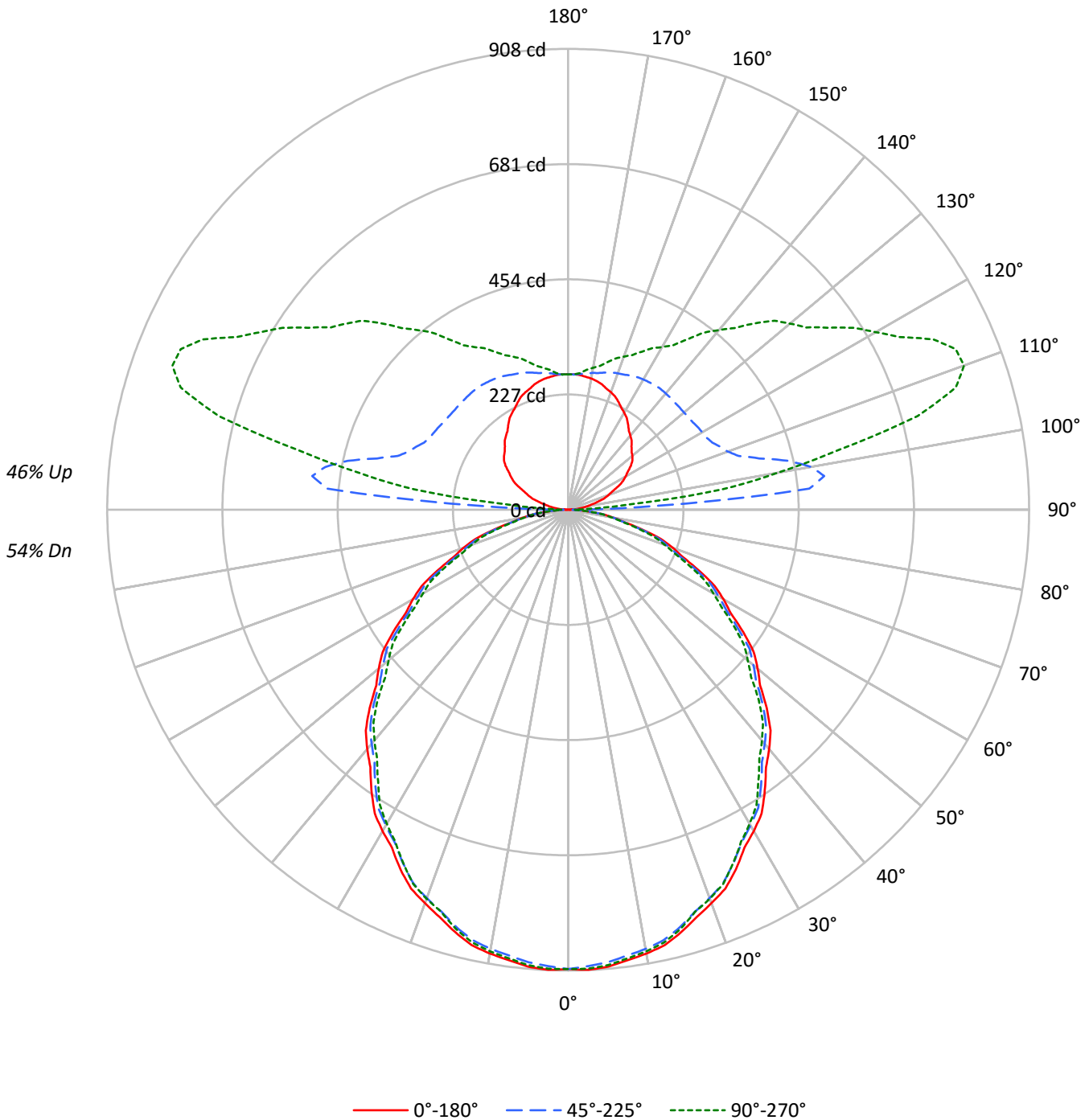
Input Watts (W): 32.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P333177-830

CATALOG NUMBER: S125DIP-S610D590U830-4F0-1E-UDD-F4

Luminous Intensity Polar Plot





TEST NUMBER: P333177-830

CATALOG NUMBER: S125DIP-S610D590U830-4F0-1E-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 | 108 | 108 | 108 | 108 | 100 | 100 | 100 | 100 | 86 | 86 | 86 | 72 | 72 | 72 | 60 | 60 | 60 | 54 |
| 1 | 99 | 94 | 90 | 87 | 91 | 88 | 84 | 81 | 75 | 72 | 70 | 63 | 62 | 60 | 53 | 52 | 50 | 45 |
| 2 | 90 | 82 | 76 | 71 | 83 | 76 | 71 | 66 | 66 | 62 | 58 | 56 | 53 | 50 | 46 | 44 | 42 | 38 |
| 3 | 82 | 72 | 65 | 59 | 76 | 67 | 61 | 56 | 58 | 53 | 49 | 49 | 45 | 42 | 41 | 38 | 36 | 32 |
| 4 | 75 | 64 | 56 | 50 | 69 | 60 | 53 | 47 | 51 | 46 | 42 | 44 | 40 | 36 | 37 | 34 | 31 | 28 |
| 5 | 69 | 57 | 49 | 43 | 64 | 53 | 46 | 40 | 46 | 40 | 36 | 39 | 35 | 31 | 33 | 30 | 27 | 24 |
| 6 | 63 | 51 | 43 | 37 | 59 | 48 | 40 | 35 | 41 | 36 | 31 | 36 | 31 | 28 | 30 | 27 | 24 | 21 |
| 7 | 59 | 46 | 38 | 33 | 54 | 43 | 36 | 31 | 38 | 32 | 28 | 32 | 28 | 24 | 27 | 24 | 21 | 19 |
| 8 | 54 | 42 | 34 | 29 | 50 | 39 | 32 | 27 | 34 | 29 | 25 | 30 | 25 | 22 | 25 | 22 | 19 | 17 |
| 9 | 51 | 38 | 31 | 26 | 47 | 36 | 29 | 24 | 31 | 26 | 22 | 27 | 23 | 20 | 23 | 20 | 17 | 15 |
| 10 | 47 | 35 | 28 | 23 | 44 | 33 | 26 | 22 | 29 | 24 | 20 | 25 | 21 | 18 | 22 | 18 | 16 | 14 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 5846 | 5846 | 5846 |
| 5° | 5859 | 5803 | 5841 |
| 10° | 5823 | 5762 | 5795 |
| 15° | 5760 | 5693 | 5717 |
| 20° | 5670 | 5597 | 5606 |
| 25° | 5573 | 5481 | 5476 |
| 30° | 5452 | 5357 | 5330 |
| 35° | 5324 | 5222 | 5149 |
| 40° | 5193 | 5078 | 5005 |
| 45° | 5050 | 4945 | 4847 |
| 50° | 4893 | 4786 | 4641 |
| 55° | 4741 | 4604 | 4476 |
| 60° | 4561 | 4421 | 4265 |
| 65° | 4345 | 4202 | 4060 |
| 70° | 4137 | 3950 | 3814 |
| 75° | 3770 | 3646 | 3521 |
| 80° | 3355 | 3303 | 3221 |
| 85° | 2920 | 2971 | 2816 |



TEST NUMBER: P333177-830

CATALOG NUMBER: S125DIP-S610D590U830-4F0-1E-UDD-F4

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 85.3 | 2.0 |
| 10°-20° | 241.1 | 5.5 |
| 20°-30° | 356.0 | 8.2 |
| 30°-40° | 415.4 | 9.5 |
| 40°-50° | 417.2 | 9.6 |
| 50°-60° | 366.2 | 8.4 |
| 60°-70° | 272.9 | 6.3 |
| 70°-80° | 156.0 | 3.6 |
| 80°-90° | 46.9 | 1.1 |
| 90°-100° | 193.3 | 4.4 |
| 100°-110° | 415.5 | 9.5 |
| 110°-120° | 390.0 | 9.0 |
| 120°-130° | 316.0 | 7.3 |
| 130°-140° | 253.6 | 5.8 |
| 140°-150° | 191.4 | 4.4 |
| 150°-160° | 134.7 | 3.1 |
| 160°-170° | 79.4 | 1.8 |
| 170°-180° | 25.8 | 0.6 |
| 0°-30° | 682.4 | 15.7 |
| 0°-40° | 1097.8 | 25.2 |
| 0°-60° | 1881.2 | 43.2 |
| 0°-90° | 2356.9 | 54.1 |
| 90°-120° | 998.8 | 22.9 |
| 90°-150° | 1759.9 | 40.4 |
| 90°-180° | 2000.0 | 45.9 |
| 0°-180° | 4356.8 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|-----|-------|-----|-------|-----|------|
| 0° | 905 | 905 | 905 | 905 | 905 | |
| 5° | 904 | 902 | 895 | 901 | 901 | 86 |
| 15° | 862 | 859 | 852 | 855 | 855 | 243 |
| 25° | 782 | 778 | 769 | 770 | 768 | 360 |
| 35° | 675 | 672 | 662 | 659 | 653 | 422 |
| 45° | 553 | 550 | 541 | 533 | 531 | 426 |
| 55° | 421 | 418 | 409 | 403 | 398 | 376 |
| 65° | 284 | 282 | 275 | 269 | 266 | 282 |
| 75° | 151 | 150 | 146 | 144 | 141 | 161 |
| 85° | 39 | 40 | 40 | 39 | 38 | 44 |
| 90° | 1 | 5 | 9 | 11 | 12 | 3 |
| 95° | 18 | 52 | 476 | 216 | 126 | 19 |
| 105° | 61 | 85 | 390 | 767 | 712 | 64 |
| 115° | 109 | 131 | 313 | 674 | 794 | 107 |
| 125° | 150 | 176 | 300 | 537 | 625 | 134 |
| 135° | 176 | 212 | 298 | 450 | 519 | 137 |
| 145° | 205 | 235 | 299 | 372 | 410 | 129 |
| 155° | 234 | 252 | 291 | 329 | 344 | 108 |
| 165° | 256 | 263 | 280 | 296 | 301 | 72 |
| 175° | 266 | 266 | 268 | 272 | 270 | 25 |
| 180° | 267 | 267 | 267 | 267 | 267 | |



TEST NUMBER: P333177-830

CATALOG NUMBER: S125DIP-S610D590U830-4F0-1E-UDD-F4

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 905.2 | 905.2 | 905.2 | 905.2 | 905.2 | 905.2 | 905.2 | 905.2 | 905.2 | 905.2 | 905.2 |
| 2.5° | 907.5 | 907.1 | 906.7 | 906.3 | 906.0 | 905.1 | 903.9 | 902.6 | 901.4 | 900.0 | 901.4 |
| 5° | 903.8 | 903.4 | 903.1 | 902.8 | 902.5 | 901.5 | 899.9 | 898.3 | 896.7 | 895.1 | 896.6 |
| 7.5° | 895.4 | 895.1 | 894.8 | 894.5 | 894.2 | 893.2 | 891.4 | 889.7 | 887.9 | 886.2 | 887.5 |
| 10° | 888.0 | 887.7 | 887.4 | 887.0 | 886.7 | 885.7 | 883.9 | 882.2 | 880.4 | 878.7 | 880.0 |
| 12.5° | 878.8 | 878.3 | 877.7 | 877.1 | 876.6 | 875.4 | 873.8 | 872.2 | 870.5 | 868.9 | 870.0 |
| 15° | 861.5 | 861.0 | 860.5 | 860.1 | 859.6 | 858.5 | 856.8 | 855.0 | 853.2 | 851.5 | 852.2 |
| 17.5° | 841.6 | 840.9 | 840.2 | 839.5 | 838.8 | 837.5 | 835.8 | 833.9 | 832.1 | 830.3 | 831.2 |
| 20° | 825.0 | 824.6 | 824.3 | 824.1 | 823.7 | 822.6 | 820.5 | 818.4 | 816.3 | 814.3 | 815.4 |
| 22.5° | 808.3 | 807.8 | 807.2 | 806.6 | 806.1 | 804.8 | 802.9 | 801.0 | 799.0 | 797.0 | 797.8 |
| 25° | 782.0 | 781.2 | 780.4 | 779.7 | 778.8 | 777.4 | 775.3 | 773.3 | 771.2 | 769.1 | 769.5 |
| 27.5° | 751.2 | 750.7 | 750.3 | 749.8 | 749.3 | 748.0 | 745.8 | 743.8 | 741.6 | 739.5 | 739.5 |
| 30° | 731.1 | 730.7 | 730.2 | 729.7 | 729.2 | 727.8 | 725.5 | 723.0 | 720.7 | 718.3 | 717.9 |
| 32.5° | 709.4 | 708.7 | 707.9 | 707.2 | 706.4 | 705.0 | 702.9 | 700.8 | 698.6 | 696.5 | 696.0 |
| 35° | 675.3 | 674.7 | 674.0 | 673.4 | 672.8 | 671.4 | 669.1 | 666.8 | 664.7 | 662.4 | 661.7 |
| 37.5° | 639.9 | 639.1 | 638.4 | 637.5 | 636.8 | 635.3 | 633.2 | 631.1 | 629.0 | 626.9 | 625.8 |
| 40° | 615.9 | 615.1 | 614.3 | 613.5 | 612.7 | 611.1 | 609.0 | 606.7 | 604.5 | 602.3 | 600.9 |
| 42.5° | 590.1 | 589.5 | 588.7 | 588.1 | 587.4 | 586.0 | 583.7 | 581.5 | 579.3 | 577.0 | 575.8 |
| 45° | 552.9 | 552.2 | 551.6 | 550.9 | 550.4 | 549.0 | 547.1 | 545.3 | 543.3 | 541.4 | 539.5 |
| 47.5° | 512.7 | 512.7 | 512.8 | 512.8 | 512.8 | 511.7 | 509.4 | 507.2 | 504.9 | 502.6 | 500.7 |
| 50° | 487.0 | 486.4 | 486.0 | 485.5 | 485.0 | 483.9 | 481.9 | 480.0 | 478.2 | 476.3 | 474.2 |
| 52.5° | 460.6 | 460.2 | 460.0 | 459.6 | 459.2 | 458.0 | 456.0 | 453.9 | 451.9 | 449.9 | 448.1 |
| 55° | 421.1 | 420.6 | 420.1 | 419.6 | 419.1 | 417.8 | 415.6 | 413.4 | 411.1 | 408.9 | 407.5 |
| 57.5° | 379.4 | 379.2 | 378.9 | 378.6 | 378.4 | 377.3 | 375.4 | 373.5 | 371.6 | 369.9 | 368.0 |
| 60° | 353.1 | 352.4 | 351.8 | 351.1 | 350.5 | 349.3 | 347.6 | 345.8 | 344.0 | 342.3 | 340.7 |
| 62.5° | 325.6 | 325.1 | 324.5 | 324.0 | 323.5 | 322.5 | 321.0 | 319.5 | 318.0 | 316.5 | 314.8 |
| 65° | 284.3 | 284.0 | 283.7 | 283.3 | 283.0 | 282.0 | 280.2 | 278.5 | 276.7 | 275.0 | 273.5 |
| 67.5° | 244.3 | 243.6 | 243.0 | 242.3 | 241.7 | 240.7 | 239.4 | 238.1 | 236.8 | 235.4 | 234.2 |
| 70° | 219.1 | 218.4 | 217.5 | 216.8 | 215.9 | 214.8 | 213.4 | 212.0 | 210.6 | 209.2 | 208.1 |
| 72.5° | 191.6 | 191.1 | 190.6 | 190.0 | 189.5 | 188.7 | 187.8 | 186.9 | 186.0 | 185.0 | 184.0 |
| 75° | 151.1 | 150.8 | 150.4 | 150.1 | 149.9 | 149.3 | 148.5 | 147.7 | 146.8 | 146.1 | 145.6 |
| 77.5° | 113.8 | 113.6 | 113.5 | 113.3 | 113.2 | 112.9 | 112.4 | 112.1 | 111.6 | 111.1 | 110.8 |
| 80° | 90.2 | 90.2 | 90.2 | 90.2 | 90.2 | 90.1 | 89.7 | 89.4 | 89.2 | 88.8 | 88.6 |
| 82.5° | 69.7 | 69.4 | 69.1 | 68.8 | 68.6 | 68.4 | 68.3 | 68.3 | 68.2 | 68.1 | 67.9 |
| 85° | 39.4 | 39.6 | 39.7 | 39.9 | 40.1 | 40.1 | 40.1 | 40.1 | 40.1 | 40.1 | 40.0 |
| 87.5° | 15.6 | 15.6 | 15.9 | 16.1 | 16.3 | 16.5 | 16.5 | 16.6 | 16.5 | 16.6 | 16.7 |
| 90° | 0.6 | 1.0 | 2.2 | 3.2 | 4.3 | 5.4 | 5.9 | 7.0 | 7.5 | 8.6 | 9.1 |
| 92.5° | 6.6 | 7.9 | 12.4 | 19.1 | 28.4 | 44.1 | 73.4 | 122.7 | 176.2 | 173.3 | 140.3 |
| 95° | 17.7 | 18.3 | 22.6 | 28.5 | 40.3 | 64.6 | 122.1 | 240.3 | 388.7 | 476.4 | 466.2 |
| 97.5° | 29.5 | 30.1 | 33.1 | 39.0 | 49.7 | 67.1 | 105.2 | 191.8 | 347.1 | 508.7 | 589.8 |
| 100° | 37.6 | 38.7 | 40.9 | 46.8 | 57.0 | 73.1 | 104.3 | 174.2 | 309.7 | 485.5 | 619.9 |
| 102.5° | 46.7 | 47.3 | 49.0 | 55.4 | 64.8 | 80.4 | 108.2 | 166.9 | 281.3 | 444.6 | 601.8 |
| 105° | 60.8 | 60.8 | 63.4 | 68.8 | 77.4 | 92.5 | 116.1 | 164.0 | 253.7 | 389.8 | 544.1 |
| 107.5° | 74.6 | 75.6 | 78.1 | 82.6 | 91.5 | 105.1 | 128.0 | 168.9 | 242.1 | 352.0 | 485.2 |
| 110° | 84.5 | 85.5 | 87.7 | 92.5 | 100.6 | 114.5 | 136.6 | 173.6 | 238.7 | 334.4 | 451.7 |



TEST NUMBER: P333177-830

CATALOG NUMBER: S125DIP-S610D590U830-4F0-1E-UDD-F4

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 94.3 | 95.4 | 97.1 | 102.0 | 110.0 | 123.6 | 144.8 | 179.6 | 238.7 | 324.1 | 426.7 |
| 115° | 108.6 | 109.7 | 111.3 | 116.1 | 124.2 | 137.6 | 157.5 | 188.7 | 240.3 | 312.9 | 399.4 |
| 117.5° | 121.5 | 123.1 | 124.9 | 129.7 | 138.8 | 151.8 | 170.7 | 199.1 | 243.8 | 307.5 | 383.2 |
| 120° | 130.1 | 131.8 | 133.8 | 138.7 | 147.9 | 161.3 | 180.1 | 205.9 | 247.3 | 304.8 | 374.2 |
| 122.5° | 139.1 | 140.3 | 142.0 | 146.8 | 156.9 | 170.3 | 189.2 | 213.7 | 250.3 | 302.7 | 366.5 |
| 125° | 150.5 | 151.7 | 154.3 | 159.1 | 169.4 | 183.3 | 201.0 | 224.2 | 255.4 | 300.0 | 355.9 |
| 127.5° | 159.5 | 161.1 | 164.6 | 170.7 | 181.5 | 195.5 | 212.5 | 233.8 | 261.1 | 298.7 | 346.3 |
| 130° | 165.0 | 166.6 | 171.0 | 178.0 | 189.3 | 203.2 | 219.9 | 240.3 | 264.6 | 297.8 | 339.8 |
| 132.5° | 169.4 | 171.4 | 176.5 | 184.5 | 196.1 | 210.1 | 226.8 | 245.9 | 268.4 | 297.8 | 334.6 |
| 135° | 176.3 | 178.5 | 184.9 | 193.6 | 204.8 | 219.3 | 236.0 | 253.7 | 273.6 | 297.8 | 328.5 |
| 137.5° | 185.2 | 186.8 | 192.8 | 201.4 | 212.4 | 227.4 | 242.6 | 259.6 | 278.5 | 298.5 | 323.0 |
| 140° | 190.3 | 191.9 | 198.4 | 207.0 | 217.3 | 231.8 | 247.3 | 263.4 | 280.7 | 299.0 | 320.5 |
| 142.5° | 196.3 | 197.6 | 203.6 | 212.2 | 222.0 | 235.6 | 250.3 | 265.6 | 281.9 | 299.4 | 318.3 |
| 145° | 205.4 | 206.4 | 211.8 | 219.3 | 229.0 | 241.4 | 255.4 | 268.8 | 283.3 | 299.0 | 315.1 |
| 147.5° | 214.8 | 215.5 | 220.1 | 227.1 | 235.4 | 246.4 | 258.6 | 270.8 | 283.9 | 297.6 | 311.7 |
| 150° | 220.5 | 221.5 | 225.3 | 232.2 | 239.8 | 248.9 | 260.8 | 272.0 | 283.9 | 296.2 | 309.2 |
| 152.5° | 226.5 | 227.1 | 230.5 | 236.6 | 243.6 | 251.9 | 262.9 | 272.9 | 283.4 | 294.5 | 306.1 |
| 155° | 234.4 | 234.4 | 237.6 | 243.0 | 248.4 | 255.9 | 265.0 | 273.6 | 282.3 | 291.4 | 301.0 |
| 157.5° | 241.5 | 241.4 | 244.0 | 248.6 | 253.4 | 259.0 | 266.9 | 274.2 | 280.9 | 288.1 | 296.3 |
| 160° | 246.3 | 245.7 | 247.9 | 251.7 | 255.9 | 260.8 | 267.8 | 274.2 | 279.6 | 286.1 | 292.5 |
| 162.5° | 250.2 | 249.6 | 251.8 | 255.1 | 258.5 | 262.5 | 268.6 | 273.8 | 278.3 | 283.4 | 289.1 |
| 165° | 255.9 | 254.9 | 256.5 | 259.1 | 261.3 | 264.6 | 268.8 | 273.1 | 276.4 | 279.6 | 283.9 |
| 167.5° | 259.8 | 259.3 | 260.2 | 261.7 | 263.3 | 265.2 | 268.8 | 271.8 | 273.3 | 275.8 | 278.8 |
| 170° | 262.4 | 261.8 | 262.4 | 263.4 | 264.6 | 266.2 | 268.8 | 271.0 | 272.0 | 273.6 | 275.8 |
| 172.5° | 264.1 | 263.2 | 263.6 | 264.8 | 265.4 | 266.2 | 268.4 | 270.1 | 270.3 | 271.1 | 272.8 |
| 175° | 266.2 | 265.0 | 265.6 | 266.2 | 266.2 | 266.2 | 267.8 | 268.8 | 268.2 | 268.2 | 268.8 |
| 177.5° | 267.1 | 266.3 | 266.3 | 266.6 | 266.3 | 266.3 | 267.1 | 267.5 | 266.6 | 266.6 | 267.1 |
| 180° | 266.6 | 266.6 | 266.6 | 266.6 | 266.6 | 266.6 | 266.6 | 266.6 | 266.6 | 266.6 | 266.6 |



TEST NUMBER: P333177-830

CATALOG NUMBER: S125DIP-S610D590U830-4F0-1E-UDD-F4

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 905.2 | 905.2 | 905.2 | 905.2 | 905.2 | 905.2 | 905.2 | 905.2 |
| 2.5° | 902.6 | 903.9 | 905.1 | 905.7 | 905.6 | 905.4 | 905.3 | 905.2 |
| 5° | 898.1 | 899.5 | 900.9 | 901.5 | 901.4 | 901.3 | 901.1 | 900.9 |
| 7.5° | 888.9 | 890.3 | 891.7 | 892.4 | 892.2 | 892.0 | 891.9 | 891.7 |
| 10° | 881.3 | 882.5 | 883.8 | 884.4 | 884.2 | 884.0 | 883.8 | 883.7 |
| 12.5° | 871.0 | 872.0 | 873.0 | 873.5 | 873.5 | 873.5 | 873.5 | 873.4 |
| 15° | 853.1 | 853.8 | 854.7 | 855.1 | 855.1 | 855.1 | 855.1 | 855.1 |
| 17.5° | 832.3 | 833.2 | 834.2 | 834.3 | 833.5 | 832.7 | 832.0 | 831.1 |
| 20° | 816.4 | 817.6 | 818.7 | 818.9 | 818.0 | 817.3 | 816.4 | 815.7 |
| 22.5° | 798.5 | 799.3 | 800.0 | 800.1 | 799.6 | 799.0 | 798.4 | 798.0 |
| 25° | 769.8 | 770.1 | 770.4 | 770.3 | 769.9 | 769.4 | 768.9 | 768.5 |
| 27.5° | 739.6 | 739.7 | 739.7 | 739.5 | 739.0 | 738.6 | 738.1 | 737.6 |
| 30° | 717.7 | 717.4 | 717.0 | 716.6 | 716.1 | 715.7 | 715.2 | 714.7 |
| 32.5° | 695.4 | 694.7 | 694.2 | 693.5 | 692.7 | 691.8 | 690.9 | 690.0 |
| 35° | 660.8 | 660.1 | 659.2 | 658.2 | 657.0 | 655.6 | 654.4 | 653.1 |
| 37.5° | 624.5 | 623.4 | 622.2 | 621.2 | 620.5 | 619.8 | 619.1 | 618.3 |
| 40° | 599.4 | 597.9 | 596.5 | 595.6 | 595.1 | 594.7 | 594.2 | 593.7 |
| 42.5° | 574.5 | 573.2 | 571.8 | 570.8 | 570.0 | 569.4 | 568.6 | 567.9 |
| 45° | 537.5 | 535.6 | 533.8 | 532.5 | 532.1 | 531.6 | 531.1 | 530.7 |
| 47.5° | 498.7 | 496.7 | 494.8 | 493.3 | 492.2 | 491.1 | 489.9 | 488.8 |
| 50° | 472.1 | 470.0 | 468.0 | 466.4 | 465.2 | 464.1 | 463.0 | 461.9 |
| 52.5° | 446.2 | 444.4 | 442.6 | 441.1 | 439.9 | 438.6 | 437.3 | 436.1 |
| 55° | 406.0 | 404.6 | 403.2 | 401.9 | 400.8 | 399.6 | 398.6 | 397.5 |
| 57.5° | 366.1 | 364.3 | 362.4 | 361.2 | 360.6 | 360.0 | 359.4 | 358.8 |
| 60° | 339.1 | 337.5 | 335.9 | 334.6 | 333.5 | 332.3 | 331.2 | 330.2 |
| 62.5° | 313.1 | 311.4 | 309.6 | 308.4 | 307.6 | 306.6 | 305.8 | 304.9 |
| 65° | 272.1 | 270.7 | 269.3 | 268.2 | 267.6 | 266.9 | 266.4 | 265.7 |
| 67.5° | 233.1 | 231.9 | 230.6 | 229.8 | 229.4 | 229.0 | 228.7 | 228.3 |
| 70° | 207.2 | 206.2 | 205.3 | 204.5 | 203.9 | 203.2 | 202.6 | 202.0 |
| 72.5° | 182.9 | 181.8 | 180.7 | 179.8 | 179.2 | 178.6 | 178.0 | 177.3 |
| 75° | 145.2 | 144.7 | 144.2 | 143.6 | 143.0 | 142.3 | 141.8 | 141.1 |
| 77.5° | 110.6 | 110.3 | 110.0 | 109.6 | 109.1 | 108.8 | 108.3 | 107.8 |
| 80° | 88.5 | 88.3 | 88.1 | 87.9 | 87.6 | 87.3 | 87.0 | 86.6 |
| 82.5° | 67.6 | 67.3 | 67.0 | 66.8 | 66.8 | 66.7 | 66.6 | 66.6 |
| 85° | 39.8 | 39.6 | 39.5 | 39.2 | 38.9 | 38.5 | 38.3 | 38.0 |
| 87.5° | 16.9 | 17.0 | 17.1 | 17.2 | 16.9 | 16.6 | 16.5 | 16.2 |
| 90° | 9.7 | 10.2 | 10.7 | 11.8 | 11.8 | 11.8 | 12.3 | 12.3 |
| 92.5° | 95.3 | 69.2 | 52.0 | 44.1 | 37.2 | 35.9 | 35.2 | 34.3 |
| 95° | 386.5 | 304.8 | 238.7 | 193.6 | 155.4 | 139.2 | 135.0 | 126.4 |
| 97.5° | 575.7 | 518.4 | 454.0 | 391.2 | 358.0 | 327.8 | 312.3 | 305.4 |
| 100° | 661.3 | 635.0 | 579.6 | 523.7 | 486.5 | 447.9 | 428.0 | 419.3 |
| 102.5° | 690.1 | 706.3 | 679.8 | 642.0 | 602.3 | 574.8 | 553.2 | 546.7 |
| 105° | 673.2 | 746.8 | 770.4 | 764.5 | 747.3 | 729.6 | 718.9 | 712.4 |
| 107.5° | 612.5 | 710.8 | 771.6 | 799.6 | 808.3 | 808.2 | 804.6 | 800.3 |
| 110° | 567.8 | 670.0 | 745.7 | 791.5 | 815.6 | 825.9 | 829.6 | 829.6 |



TEST NUMBER: P333177-830

CATALOG NUMBER: S125DIP-S610D590U830-4F0-1E-UDD-F4

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 532.5 | 629.5 | 706.2 | 760.1 | 795.4 | 812.9 | 822.3 | 826.1 |
| 115° | 488.1 | 571.6 | 645.2 | 703.8 | 745.7 | 771.6 | 786.6 | 793.6 |
| 117.5° | 459.6 | 531.4 | 594.8 | 648.7 | 690.6 | 717.3 | 732.2 | 736.5 |
| 120° | 444.1 | 508.6 | 567.8 | 615.1 | 654.9 | 680.7 | 695.2 | 699.5 |
| 122.5° | 432.5 | 492.3 | 545.0 | 589.3 | 624.7 | 648.4 | 662.9 | 666.8 |
| 125° | 415.6 | 470.4 | 517.3 | 555.9 | 586.1 | 608.1 | 619.9 | 625.3 |
| 127.5° | 398.4 | 449.6 | 493.2 | 529.5 | 556.8 | 576.3 | 587.4 | 589.8 |
| 130° | 387.7 | 435.0 | 476.9 | 511.8 | 538.8 | 556.5 | 567.2 | 570.4 |
| 132.5° | 376.9 | 421.2 | 459.3 | 492.9 | 519.8 | 537.5 | 547.4 | 551.1 |
| 135° | 362.9 | 400.0 | 434.4 | 465.1 | 488.7 | 506.4 | 516.1 | 519.3 |
| 137.5° | 351.1 | 381.1 | 409.7 | 435.7 | 456.9 | 473.1 | 481.9 | 485.5 |
| 140° | 344.6 | 369.9 | 394.6 | 417.3 | 437.2 | 451.1 | 459.1 | 461.8 |
| 142.5° | 339.0 | 360.4 | 381.7 | 401.3 | 418.2 | 430.0 | 437.6 | 439.9 |
| 145° | 331.8 | 348.4 | 365.0 | 379.6 | 392.5 | 401.6 | 407.6 | 409.7 |
| 147.5° | 324.9 | 338.4 | 351.2 | 362.1 | 372.4 | 379.7 | 383.1 | 384.1 |
| 150° | 320.9 | 332.8 | 343.0 | 352.7 | 360.8 | 367.2 | 369.4 | 369.9 |
| 152.5° | 316.7 | 327.3 | 336.6 | 344.1 | 350.9 | 356.0 | 358.2 | 358.7 |
| 155° | 310.2 | 318.9 | 326.3 | 332.2 | 337.6 | 341.4 | 343.0 | 343.6 |
| 157.5° | 303.8 | 310.9 | 316.7 | 321.3 | 325.5 | 328.6 | 330.1 | 330.0 |
| 160° | 299.4 | 304.8 | 310.2 | 314.0 | 317.7 | 320.5 | 321.5 | 320.9 |
| 162.5° | 294.7 | 299.7 | 304.2 | 307.6 | 310.5 | 312.7 | 312.9 | 312.8 |
| 165° | 288.1 | 291.9 | 295.2 | 297.8 | 300.0 | 301.0 | 301.0 | 301.0 |
| 167.5° | 281.9 | 284.5 | 286.9 | 288.8 | 289.9 | 290.9 | 290.4 | 290.3 |
| 170° | 278.5 | 280.1 | 281.7 | 282.8 | 283.9 | 284.5 | 284.5 | 283.9 |
| 172.5° | 274.7 | 276.3 | 277.4 | 278.1 | 278.3 | 279.3 | 278.4 | 277.9 |
| 175° | 270.4 | 270.4 | 271.5 | 271.5 | 271.5 | 272.0 | 271.0 | 270.4 |
| 177.5° | 267.5 | 268.0 | 268.0 | 268.0 | 267.5 | 268.0 | 266.6 | 266.6 |
| 180° | 266.6 | 266.6 | 266.6 | 266.6 | 266.6 | 266.6 | 266.6 | 266.6 |

(END OF REPORT)