

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: P333177-930

Luminaire Tested: **S125DIP-S610D590U930-4F0-1E-UDD-F4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P333177-930
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-S610D590U930-4F0-1E-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: 3768.6 lumens
Efficiency: N/A
Efficacy: 114.9 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

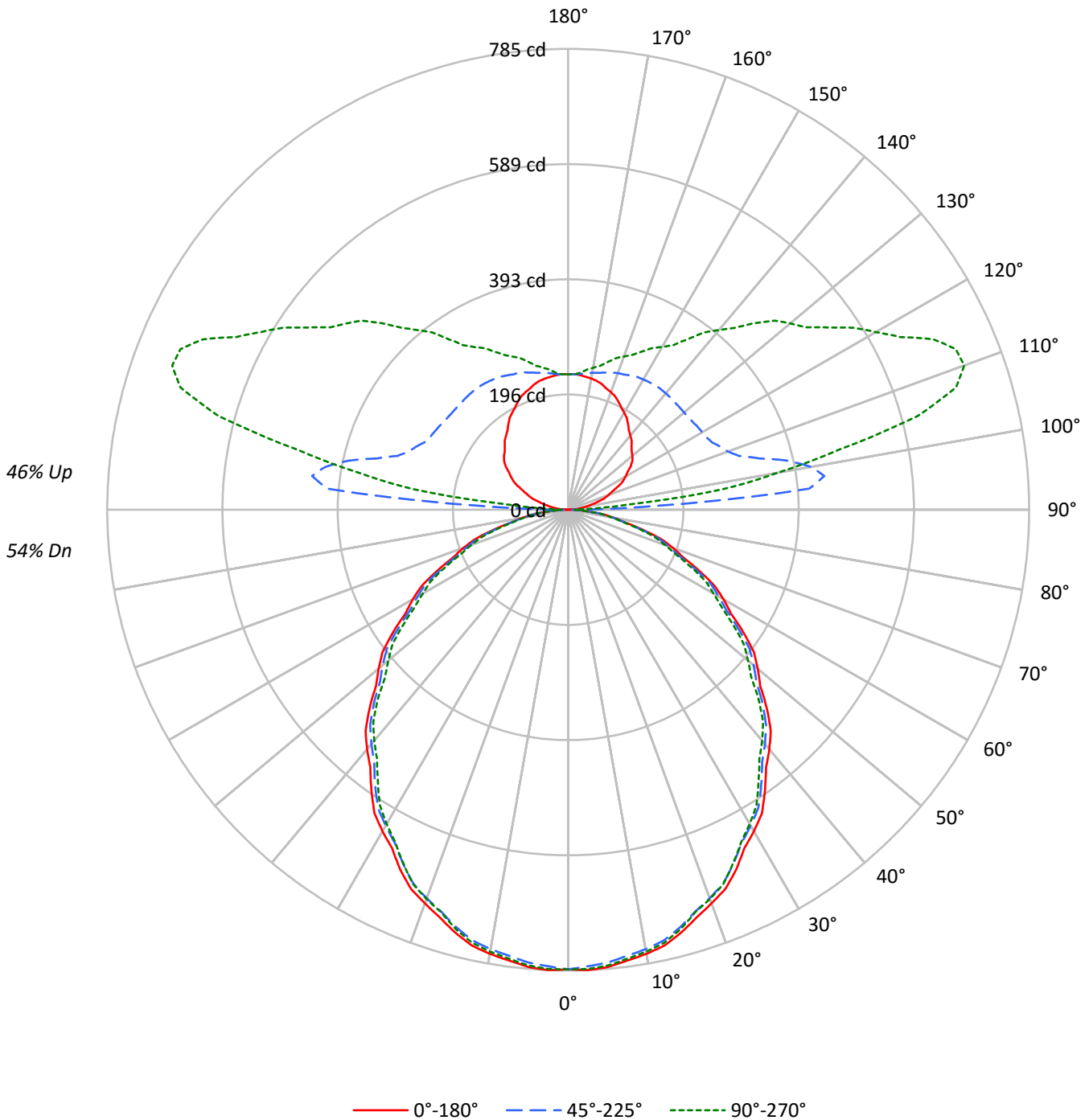
Input Watts (W): 32.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P333177-930

CATALOG NUMBER: S125DIP-S610D590U930-4F0-1E-UDD-F4

Luminous Intensity Polar Plot





TEST NUMBER: P333177-930

CATALOG NUMBER: S125DIP-S610D590U930-4F0-1E-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° | 5057 | 5057 | 5057 |
| 5° | 5068 | 5020 | 5052 |
| 10° | 5037 | 4985 | 5013 |
| 15° | 4983 | 4924 | 4945 |
| 20° | 4904 | 4841 | 4849 |
| 25° | 4821 | 4741 | 4737 |
| 30° | 4716 | 4633 | 4610 |
| 35° | 4606 | 4518 | 4454 |
| 40° | 4491 | 4392 | 4330 |
| 45° | 4369 | 4277 | 4192 |
| 50° | 4233 | 4140 | 4015 |
| 55° | 4102 | 3983 | 3871 |
| 60° | 3945 | 3825 | 3689 |
| 65° | 3758 | 3636 | 3512 |
| 70° | 3580 | 3416 | 3299 |
| 75° | 3261 | 3154 | 3047 |
| 80° | 2901 | 2856 | 2786 |
| 85° | 2527 | 2571 | 2438 |



TEST NUMBER: P333177-930

CATALOG NUMBER: S125DIP-S610D590U930-4F0-1E-UDD-F4

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 73.8 | 2.0 |
| 10°-20° | 208.5 | 5.5 |
| 20°-30° | 307.9 | 8.2 |
| 30°-40° | 359.3 | 9.5 |
| 40°-50° | 360.9 | 9.6 |
| 50°-60° | 316.8 | 8.4 |
| 60°-70° | 236.0 | 6.3 |
| 70°-80° | 135.0 | 3.6 |
| 80°-90° | 40.5 | 1.1 |
| 90°-100° | 167.2 | 4.4 |
| 100°-110° | 359.4 | 9.5 |
| 110°-120° | 337.3 | 9.0 |
| 120°-130° | 273.4 | 7.3 |
| 130°-140° | 219.4 | 5.8 |
| 140°-150° | 165.6 | 4.4 |
| 150°-160° | 116.5 | 3.1 |
| 160°-170° | 68.7 | 1.8 |
| 170°-180° | 22.3 | 0.6 |
| 0°-30° | 590.3 | 15.7 |
| 0°-40° | 949.6 | 25.2 |
| 0°-60° | 1627.2 | 43.2 |
| 0°-90° | 2038.8 | 54.1 |
| 90°-120° | 864.0 | 22.9 |
| 90°-150° | 1522.3 | 40.4 |
| 90°-180° | 1730.0 | 45.9 |
| 0°-180° | 3768.6 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|-----|-------|-----|-------|-----|------|
| 0° | 783 | 783 | 783 | 783 | 783 | |
| 5° | 782 | 780 | 774 | 780 | 779 | 74 |
| 15° | 745 | 743 | 736 | 739 | 740 | 210 |
| 25° | 676 | 673 | 665 | 666 | 665 | 311 |
| 35° | 584 | 581 | 573 | 570 | 565 | 365 |
| 45° | 478 | 476 | 468 | 461 | 459 | 368 |
| 55° | 364 | 362 | 354 | 348 | 344 | 325 |
| 65° | 246 | 244 | 238 | 232 | 230 | 244 |
| 75° | 131 | 129 | 126 | 124 | 122 | 139 |
| 85° | 34 | 35 | 35 | 34 | 33 | 38 |
| 90° | 0 | 4 | 7 | 10 | 11 | 3 |
| 95° | 15 | 45 | 412 | 187 | 109 | 16 |
| 105° | 53 | 73 | 337 | 664 | 616 | 55 |
| 115° | 94 | 113 | 271 | 583 | 686 | 92 |
| 125° | 130 | 153 | 260 | 464 | 541 | 115 |
| 135° | 152 | 183 | 258 | 389 | 449 | 118 |
| 145° | 178 | 203 | 259 | 322 | 354 | 111 |
| 155° | 203 | 218 | 252 | 285 | 297 | 93 |
| 165° | 221 | 227 | 242 | 256 | 260 | 62 |
| 175° | 230 | 230 | 232 | 235 | 234 | 22 |
| 180° | 231 | 231 | 231 | 231 | 231 | |



TEST NUMBER: P333177-930

CATALOG NUMBER: S125DIP-S610D590U930-4F0-1E-UDD-F4

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 783.0 | 783.0 | 783.0 | 783.0 | 783.0 | 783.0 | 783.0 | 783.0 | 783.0 | 783.0 | 783.0 |
| 2.5° | 785.0 | 784.6 | 784.3 | 784.0 | 783.7 | 782.9 | 781.9 | 780.7 | 779.7 | 778.5 | 779.7 |
| 5° | 781.8 | 781.5 | 781.2 | 780.9 | 780.6 | 779.8 | 778.4 | 777.1 | 775.7 | 774.3 | 775.6 |
| 7.5° | 774.5 | 774.3 | 774.0 | 773.7 | 773.5 | 772.6 | 771.0 | 769.6 | 768.0 | 766.5 | 767.7 |
| 10° | 768.1 | 767.8 | 767.6 | 767.3 | 767.0 | 766.1 | 764.6 | 763.1 | 761.6 | 760.1 | 761.2 |
| 12.5° | 760.2 | 759.7 | 759.2 | 758.7 | 758.2 | 757.2 | 755.9 | 754.5 | 753.0 | 751.6 | 752.5 |
| 15° | 745.2 | 744.8 | 744.4 | 744.0 | 743.6 | 742.6 | 741.1 | 739.6 | 738.0 | 736.5 | 737.2 |
| 17.5° | 728.0 | 727.4 | 726.8 | 726.2 | 725.5 | 724.5 | 722.9 | 721.3 | 719.7 | 718.2 | 719.0 |
| 20° | 713.6 | 713.3 | 713.1 | 712.8 | 712.5 | 711.5 | 709.7 | 707.9 | 706.1 | 704.3 | 705.3 |
| 22.5° | 699.2 | 698.7 | 698.2 | 697.7 | 697.2 | 696.2 | 694.5 | 692.8 | 691.1 | 689.4 | 690.1 |
| 25° | 676.5 | 675.7 | 675.1 | 674.4 | 673.7 | 672.5 | 670.7 | 668.9 | 667.1 | 665.3 | 665.6 |
| 27.5° | 649.8 | 649.4 | 649.0 | 648.6 | 648.2 | 647.0 | 645.1 | 643.4 | 641.5 | 639.7 | 639.7 |
| 30° | 632.4 | 632.0 | 631.6 | 631.2 | 630.8 | 629.6 | 627.5 | 625.4 | 623.4 | 621.3 | 621.0 |
| 32.5° | 613.6 | 613.0 | 612.4 | 611.7 | 611.1 | 609.8 | 608.1 | 606.2 | 604.3 | 602.5 | 602.0 |
| 35° | 584.2 | 583.6 | 583.0 | 582.5 | 582.0 | 580.7 | 578.8 | 576.8 | 574.9 | 573.0 | 572.3 |
| 37.5° | 553.5 | 552.9 | 552.2 | 551.5 | 550.8 | 549.5 | 547.7 | 545.9 | 544.0 | 542.3 | 541.3 |
| 40° | 532.7 | 532.1 | 531.3 | 530.7 | 529.9 | 528.6 | 526.8 | 524.8 | 522.9 | 521.0 | 519.8 |
| 42.5° | 510.5 | 509.9 | 509.2 | 508.7 | 508.1 | 506.9 | 504.9 | 503.0 | 501.1 | 499.1 | 498.1 |
| 45° | 478.3 | 477.7 | 477.1 | 476.5 | 476.1 | 474.9 | 473.3 | 471.7 | 469.9 | 468.3 | 466.7 |
| 47.5° | 443.5 | 443.5 | 443.6 | 443.6 | 443.6 | 442.6 | 440.7 | 438.7 | 436.8 | 434.7 | 433.1 |
| 50° | 421.3 | 420.8 | 420.4 | 420.0 | 419.6 | 418.6 | 416.9 | 415.2 | 413.6 | 412.0 | 410.2 |
| 52.5° | 398.4 | 398.1 | 397.9 | 397.5 | 397.2 | 396.2 | 394.4 | 392.6 | 390.9 | 389.1 | 387.6 |
| 55° | 364.3 | 363.8 | 363.4 | 363.0 | 362.6 | 361.4 | 359.5 | 357.6 | 355.6 | 353.7 | 352.5 |
| 57.5° | 328.2 | 328.0 | 327.8 | 327.5 | 327.3 | 326.4 | 324.7 | 323.1 | 321.5 | 319.9 | 318.3 |
| 60° | 305.4 | 304.8 | 304.3 | 303.7 | 303.2 | 302.1 | 300.7 | 299.1 | 297.6 | 296.1 | 294.7 |
| 62.5° | 281.6 | 281.2 | 280.7 | 280.3 | 279.8 | 279.0 | 277.7 | 276.4 | 275.1 | 273.8 | 272.3 |
| 65° | 245.9 | 245.6 | 245.4 | 245.1 | 244.8 | 243.9 | 242.4 | 240.9 | 239.4 | 237.9 | 236.6 |
| 67.5° | 211.3 | 210.8 | 210.2 | 209.6 | 209.0 | 208.2 | 207.1 | 205.9 | 204.8 | 203.7 | 202.6 |
| 70° | 189.6 | 188.9 | 188.2 | 187.5 | 186.8 | 185.8 | 184.6 | 183.4 | 182.1 | 180.9 | 180.0 |
| 72.5° | 165.8 | 165.3 | 164.9 | 164.4 | 163.9 | 163.2 | 162.5 | 161.7 | 160.9 | 160.0 | 159.1 |
| 75° | 130.7 | 130.4 | 130.1 | 129.9 | 129.6 | 129.1 | 128.4 | 127.8 | 127.0 | 126.4 | 126.0 |
| 77.5° | 98.4 | 98.2 | 98.2 | 98.0 | 97.9 | 97.7 | 97.3 | 96.9 | 96.5 | 96.1 | 95.9 |
| 80° | 78.0 | 78.0 | 78.0 | 78.0 | 78.0 | 77.9 | 77.6 | 77.4 | 77.1 | 76.8 | 76.6 |
| 82.5° | 60.3 | 60.0 | 59.8 | 59.5 | 59.4 | 59.2 | 59.1 | 59.1 | 59.0 | 58.9 | 58.7 |
| 85° | 34.1 | 34.2 | 34.3 | 34.5 | 34.7 | 34.7 | 34.7 | 34.7 | 34.7 | 34.7 | 34.6 |
| 87.5° | 13.5 | 13.5 | 13.8 | 13.9 | 14.1 | 14.3 | 14.3 | 14.3 | 14.3 | 14.3 | 14.4 |
| 90° | 0.5 | 0.9 | 1.9 | 2.8 | 3.8 | 4.6 | 5.1 | 6.0 | 6.5 | 7.4 | 7.9 |
| 92.5° | 5.7 | 6.8 | 10.8 | 16.6 | 24.5 | 38.2 | 63.5 | 106.2 | 152.4 | 149.9 | 121.4 |
| 95° | 15.3 | 15.8 | 19.6 | 24.6 | 34.9 | 55.8 | 105.6 | 207.9 | 336.2 | 412.1 | 403.2 |
| 97.5° | 25.5 | 26.0 | 28.6 | 33.8 | 43.0 | 58.0 | 91.0 | 165.9 | 300.3 | 440.0 | 510.2 |
| 100° | 32.5 | 33.5 | 35.4 | 40.4 | 49.3 | 63.3 | 90.3 | 150.7 | 267.9 | 420.0 | 536.2 |
| 102.5° | 40.4 | 40.9 | 42.4 | 47.9 | 56.0 | 69.5 | 93.6 | 144.4 | 243.3 | 384.6 | 520.6 |
| 105° | 52.6 | 52.6 | 54.9 | 59.5 | 66.9 | 80.0 | 100.4 | 141.9 | 219.5 | 337.2 | 470.7 |
| 107.5° | 64.5 | 65.4 | 67.6 | 71.4 | 79.2 | 90.9 | 110.7 | 146.1 | 209.5 | 304.5 | 419.7 |
| 110° | 73.1 | 73.9 | 75.8 | 80.0 | 87.0 | 99.1 | 118.1 | 150.2 | 206.5 | 289.3 | 390.7 |



TEST NUMBER: P333177-930

CATALOG NUMBER: S125DIP-S610D590U930-4F0-1E-UDD-F4

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 81.6 | 82.5 | 84.0 | 88.2 | 95.1 | 106.9 | 125.2 | 155.4 | 206.5 | 280.4 | 369.1 |
| 115° | 93.9 | 94.9 | 96.3 | 100.4 | 107.5 | 119.0 | 136.2 | 163.2 | 207.9 | 270.7 | 345.5 |
| 117.5° | 105.1 | 106.5 | 108.0 | 112.2 | 120.1 | 131.3 | 147.7 | 172.2 | 210.9 | 266.0 | 331.5 |
| 120° | 112.5 | 114.0 | 115.8 | 120.0 | 127.9 | 139.5 | 155.8 | 178.1 | 213.9 | 263.7 | 323.7 |
| 122.5° | 120.3 | 121.4 | 122.9 | 127.0 | 135.7 | 147.3 | 163.6 | 184.8 | 216.5 | 261.9 | 317.0 |
| 125° | 130.2 | 131.2 | 133.5 | 137.6 | 146.5 | 158.6 | 173.9 | 194.0 | 220.9 | 259.5 | 307.9 |
| 127.5° | 137.9 | 139.3 | 142.4 | 147.7 | 157.0 | 169.1 | 183.8 | 202.3 | 225.8 | 258.4 | 299.5 |
| 130° | 142.8 | 144.1 | 147.9 | 153.9 | 163.7 | 175.8 | 190.2 | 207.9 | 228.9 | 257.6 | 293.9 |
| 132.5° | 146.5 | 148.3 | 152.7 | 159.6 | 169.7 | 181.7 | 196.2 | 212.7 | 232.2 | 257.6 | 289.4 |
| 135° | 152.5 | 154.4 | 160.0 | 167.5 | 177.2 | 189.7 | 204.2 | 219.5 | 236.7 | 257.6 | 284.1 |
| 137.5° | 160.2 | 161.6 | 166.8 | 174.2 | 183.8 | 196.7 | 209.9 | 224.5 | 240.9 | 258.2 | 279.4 |
| 140° | 164.6 | 166.0 | 171.6 | 179.0 | 187.9 | 200.5 | 213.9 | 227.9 | 242.8 | 258.6 | 277.2 |
| 142.5° | 169.8 | 170.9 | 176.1 | 183.5 | 192.0 | 203.8 | 216.5 | 229.8 | 243.9 | 258.9 | 275.3 |
| 145° | 177.7 | 178.6 | 183.2 | 189.7 | 198.1 | 208.8 | 220.9 | 232.5 | 245.1 | 258.6 | 272.6 |
| 147.5° | 185.8 | 186.4 | 190.4 | 196.4 | 203.7 | 213.1 | 223.7 | 234.2 | 245.6 | 257.4 | 269.6 |
| 150° | 190.7 | 191.6 | 194.9 | 200.9 | 207.4 | 215.3 | 225.6 | 235.3 | 245.6 | 256.2 | 267.4 |
| 152.5° | 195.9 | 196.4 | 199.3 | 204.6 | 210.8 | 217.9 | 227.4 | 236.0 | 245.2 | 254.8 | 264.8 |
| 155° | 202.8 | 202.8 | 205.5 | 210.2 | 214.8 | 221.4 | 229.3 | 236.7 | 244.2 | 252.1 | 260.4 |
| 157.5° | 208.9 | 208.8 | 211.1 | 215.1 | 219.2 | 224.0 | 230.9 | 237.2 | 243.0 | 249.2 | 256.3 |
| 160° | 213.0 | 212.5 | 214.4 | 217.7 | 221.4 | 225.6 | 231.6 | 237.2 | 241.8 | 247.4 | 253.0 |
| 162.5° | 216.4 | 215.9 | 217.8 | 220.6 | 223.6 | 227.1 | 232.4 | 236.8 | 240.8 | 245.2 | 250.1 |
| 165° | 221.4 | 220.5 | 221.8 | 224.1 | 226.0 | 228.9 | 232.5 | 236.3 | 239.0 | 241.8 | 245.6 |
| 167.5° | 224.7 | 224.3 | 225.1 | 226.4 | 227.7 | 229.4 | 232.5 | 235.1 | 236.4 | 238.6 | 241.2 |
| 170° | 227.0 | 226.5 | 227.0 | 227.9 | 228.9 | 230.2 | 232.5 | 234.4 | 235.3 | 236.7 | 238.6 |
| 172.5° | 228.4 | 227.6 | 228.0 | 229.0 | 229.6 | 230.2 | 232.2 | 233.7 | 233.8 | 234.5 | 235.9 |
| 175° | 230.2 | 229.3 | 229.8 | 230.2 | 230.2 | 230.2 | 231.6 | 232.5 | 232.0 | 232.0 | 232.5 |
| 177.5° | 231.1 | 230.3 | 230.3 | 230.6 | 230.3 | 230.3 | 231.1 | 231.4 | 230.6 | 230.6 | 231.1 |
| 180° | 230.6 | 230.6 | 230.6 | 230.6 | 230.6 | 230.6 | 230.6 | 230.6 | 230.6 | 230.6 | 230.6 |



TEST NUMBER: P333177-930

CATALOG NUMBER: S125DIP-S610D590U930-4F0-1E-UDD-F4

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 783.0 | 783.0 | 783.0 | 783.0 | 783.0 | 783.0 | 783.0 | 783.0 |
| 2.5° | 780.7 | 781.9 | 782.9 | 783.4 | 783.3 | 783.2 | 783.1 | 783.0 |
| 5° | 776.8 | 778.0 | 779.3 | 779.8 | 779.7 | 779.6 | 779.4 | 779.3 |
| 7.5° | 768.9 | 770.1 | 771.4 | 771.9 | 771.8 | 771.6 | 771.5 | 771.4 |
| 10° | 762.3 | 763.4 | 764.5 | 765.0 | 764.8 | 764.7 | 764.5 | 764.4 |
| 12.5° | 753.4 | 754.3 | 755.1 | 755.6 | 755.5 | 755.5 | 755.5 | 755.5 |
| 15° | 737.9 | 738.6 | 739.3 | 739.6 | 739.6 | 739.6 | 739.6 | 739.6 |
| 17.5° | 719.9 | 720.7 | 721.6 | 721.7 | 721.0 | 720.3 | 719.7 | 718.9 |
| 20° | 706.2 | 707.2 | 708.2 | 708.3 | 707.6 | 706.9 | 706.2 | 705.6 |
| 22.5° | 690.7 | 691.4 | 692.0 | 692.1 | 691.6 | 691.1 | 690.6 | 690.2 |
| 25° | 665.9 | 666.1 | 666.4 | 666.3 | 665.9 | 665.5 | 665.1 | 664.7 |
| 27.5° | 639.8 | 639.8 | 639.8 | 639.7 | 639.3 | 638.9 | 638.5 | 638.1 |
| 30° | 620.8 | 620.5 | 620.2 | 619.9 | 619.5 | 619.1 | 618.6 | 618.2 |
| 32.5° | 601.5 | 601.0 | 600.5 | 599.9 | 599.2 | 598.4 | 597.6 | 596.9 |
| 35° | 571.6 | 571.0 | 570.2 | 569.3 | 568.3 | 567.1 | 566.1 | 564.9 |
| 37.5° | 540.2 | 539.2 | 538.2 | 537.4 | 536.7 | 536.1 | 535.5 | 534.8 |
| 40° | 518.4 | 517.2 | 516.0 | 515.2 | 514.8 | 514.4 | 514.0 | 513.6 |
| 42.5° | 496.9 | 495.8 | 494.6 | 493.7 | 493.1 | 492.5 | 491.9 | 491.2 |
| 45° | 465.0 | 463.3 | 461.7 | 460.6 | 460.2 | 459.8 | 459.4 | 459.0 |
| 47.5° | 431.4 | 429.7 | 428.0 | 426.7 | 425.7 | 424.8 | 423.8 | 422.8 |
| 50° | 408.4 | 406.6 | 404.8 | 403.4 | 402.4 | 401.5 | 400.5 | 399.6 |
| 52.5° | 386.0 | 384.4 | 382.9 | 381.6 | 380.5 | 379.4 | 378.3 | 377.2 |
| 55° | 351.2 | 350.0 | 348.8 | 347.6 | 346.7 | 345.7 | 344.8 | 343.8 |
| 57.5° | 316.7 | 315.1 | 313.5 | 312.4 | 311.9 | 311.4 | 310.9 | 310.4 |
| 60° | 293.3 | 292.0 | 290.6 | 289.4 | 288.5 | 287.5 | 286.5 | 285.6 |
| 62.5° | 270.8 | 269.4 | 267.8 | 266.8 | 266.0 | 265.2 | 264.5 | 263.7 |
| 65° | 235.4 | 234.2 | 232.9 | 232.0 | 231.5 | 230.9 | 230.4 | 229.8 |
| 67.5° | 201.6 | 200.6 | 199.5 | 198.8 | 198.4 | 198.1 | 197.8 | 197.5 |
| 70° | 179.2 | 178.4 | 177.6 | 176.9 | 176.3 | 175.8 | 175.2 | 174.7 |
| 72.5° | 158.2 | 157.3 | 156.3 | 155.6 | 155.0 | 154.5 | 153.9 | 153.4 |
| 75° | 125.6 | 125.1 | 124.7 | 124.3 | 123.7 | 123.1 | 122.6 | 122.1 |
| 77.5° | 95.6 | 95.4 | 95.1 | 94.8 | 94.4 | 94.1 | 93.7 | 93.3 |
| 80° | 76.6 | 76.4 | 76.2 | 76.1 | 75.7 | 75.5 | 75.3 | 74.9 |
| 82.5° | 58.5 | 58.2 | 58.0 | 57.8 | 57.8 | 57.7 | 57.6 | 57.6 |
| 85° | 34.4 | 34.2 | 34.2 | 33.9 | 33.7 | 33.3 | 33.1 | 32.9 |
| 87.5° | 14.6 | 14.7 | 14.8 | 14.8 | 14.6 | 14.3 | 14.3 | 14.0 |
| 90° | 8.4 | 8.8 | 9.3 | 10.2 | 10.2 | 10.2 | 10.7 | 10.7 |
| 92.5° | 82.4 | 59.8 | 45.0 | 38.2 | 32.2 | 31.1 | 30.4 | 29.7 |
| 95° | 334.4 | 263.7 | 206.5 | 167.5 | 134.4 | 120.4 | 116.8 | 109.3 |
| 97.5° | 498.0 | 448.4 | 392.7 | 338.3 | 309.7 | 283.6 | 270.1 | 264.2 |
| 100° | 572.0 | 549.3 | 501.3 | 453.0 | 420.9 | 387.4 | 370.2 | 362.7 |
| 102.5° | 597.0 | 611.0 | 588.0 | 555.3 | 521.0 | 497.2 | 478.5 | 472.9 |
| 105° | 582.3 | 646.0 | 666.4 | 661.3 | 646.5 | 631.1 | 621.8 | 616.2 |
| 107.5° | 529.8 | 614.8 | 667.4 | 691.6 | 699.2 | 699.1 | 696.0 | 692.3 |
| 110° | 491.1 | 579.5 | 645.1 | 684.6 | 705.5 | 714.4 | 717.6 | 717.6 |



TEST NUMBER: P333177-930

CATALOG NUMBER: S125DIP-S610D590U930-4F0-1E-UDD-F4

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 460.6 | 544.5 | 610.8 | 657.5 | 688.0 | 703.2 | 711.3 | 714.6 |
| 115° | 422.2 | 494.4 | 558.1 | 608.8 | 645.1 | 667.4 | 680.4 | 686.5 |
| 117.5° | 397.5 | 459.7 | 514.5 | 561.1 | 597.4 | 620.4 | 633.3 | 637.1 |
| 120° | 384.2 | 439.9 | 491.1 | 532.1 | 566.5 | 588.8 | 601.4 | 605.0 |
| 122.5° | 374.1 | 425.8 | 471.4 | 509.7 | 540.4 | 560.8 | 573.4 | 576.7 |
| 125° | 359.5 | 406.9 | 447.4 | 480.9 | 507.0 | 526.0 | 536.2 | 540.9 |
| 127.5° | 344.6 | 388.9 | 426.6 | 458.0 | 481.6 | 498.5 | 508.1 | 510.2 |
| 130° | 335.3 | 376.3 | 412.5 | 442.7 | 466.0 | 481.4 | 490.6 | 493.4 |
| 132.5° | 326.0 | 364.4 | 397.3 | 426.4 | 449.6 | 465.0 | 473.5 | 476.7 |
| 135° | 313.9 | 346.0 | 375.8 | 402.3 | 422.7 | 438.1 | 446.5 | 449.2 |
| 137.5° | 303.7 | 329.6 | 354.4 | 376.9 | 395.2 | 409.2 | 416.9 | 420.0 |
| 140° | 298.1 | 320.0 | 341.4 | 360.9 | 378.1 | 390.2 | 397.1 | 399.5 |
| 142.5° | 293.3 | 311.8 | 330.2 | 347.2 | 361.7 | 371.9 | 378.5 | 380.5 |
| 145° | 287.0 | 301.3 | 315.8 | 328.3 | 339.5 | 347.4 | 352.5 | 354.4 |
| 147.5° | 281.0 | 292.7 | 303.8 | 313.2 | 322.1 | 328.4 | 331.4 | 332.2 |
| 150° | 277.6 | 287.9 | 296.7 | 305.1 | 312.1 | 317.6 | 319.5 | 320.0 |
| 152.5° | 273.9 | 283.1 | 291.1 | 297.7 | 303.5 | 307.9 | 309.8 | 310.3 |
| 155° | 268.3 | 275.8 | 282.3 | 287.4 | 292.0 | 295.3 | 296.7 | 297.2 |
| 157.5° | 262.8 | 268.9 | 273.9 | 277.9 | 281.5 | 284.2 | 285.5 | 285.4 |
| 160° | 259.0 | 263.7 | 268.3 | 271.6 | 274.8 | 277.2 | 278.1 | 277.6 |
| 162.5° | 254.9 | 259.3 | 263.1 | 266.0 | 268.6 | 270.5 | 270.7 | 270.6 |
| 165° | 249.2 | 252.5 | 255.4 | 257.6 | 259.5 | 260.4 | 260.4 | 260.4 |
| 167.5° | 243.9 | 246.1 | 248.2 | 249.8 | 250.8 | 251.6 | 251.2 | 251.1 |
| 170° | 240.9 | 242.3 | 243.7 | 244.6 | 245.6 | 246.1 | 246.1 | 245.6 |
| 172.5° | 237.6 | 239.0 | 239.9 | 240.5 | 240.8 | 241.6 | 240.8 | 240.4 |
| 175° | 233.9 | 233.9 | 234.9 | 234.9 | 234.9 | 235.3 | 234.4 | 233.9 |
| 177.5° | 231.4 | 231.8 | 231.8 | 231.8 | 231.4 | 231.8 | 230.6 | 230.6 |
| 180° | 230.6 | 230.6 | 230.6 | 230.6 | 230.6 | 230.6 | 230.6 | 230.6 |

(END OF REPORT)