

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: P331432-940

Luminaire Tested: **S122DIP-S1005D530U940-4F0-1E-UDD-D**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331432-940
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-2,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S122DIP-S1005D530U940-4F0-1E-UDD-D
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 1005 LUMENS PER FOOT, DROP SATIN WHITE DIFFUSER
UPLIGHT 530 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5483.6 lumens
Efficiency: N/A
Efficacy: 99.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.32 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.08')
CIE Type: General Diffuse

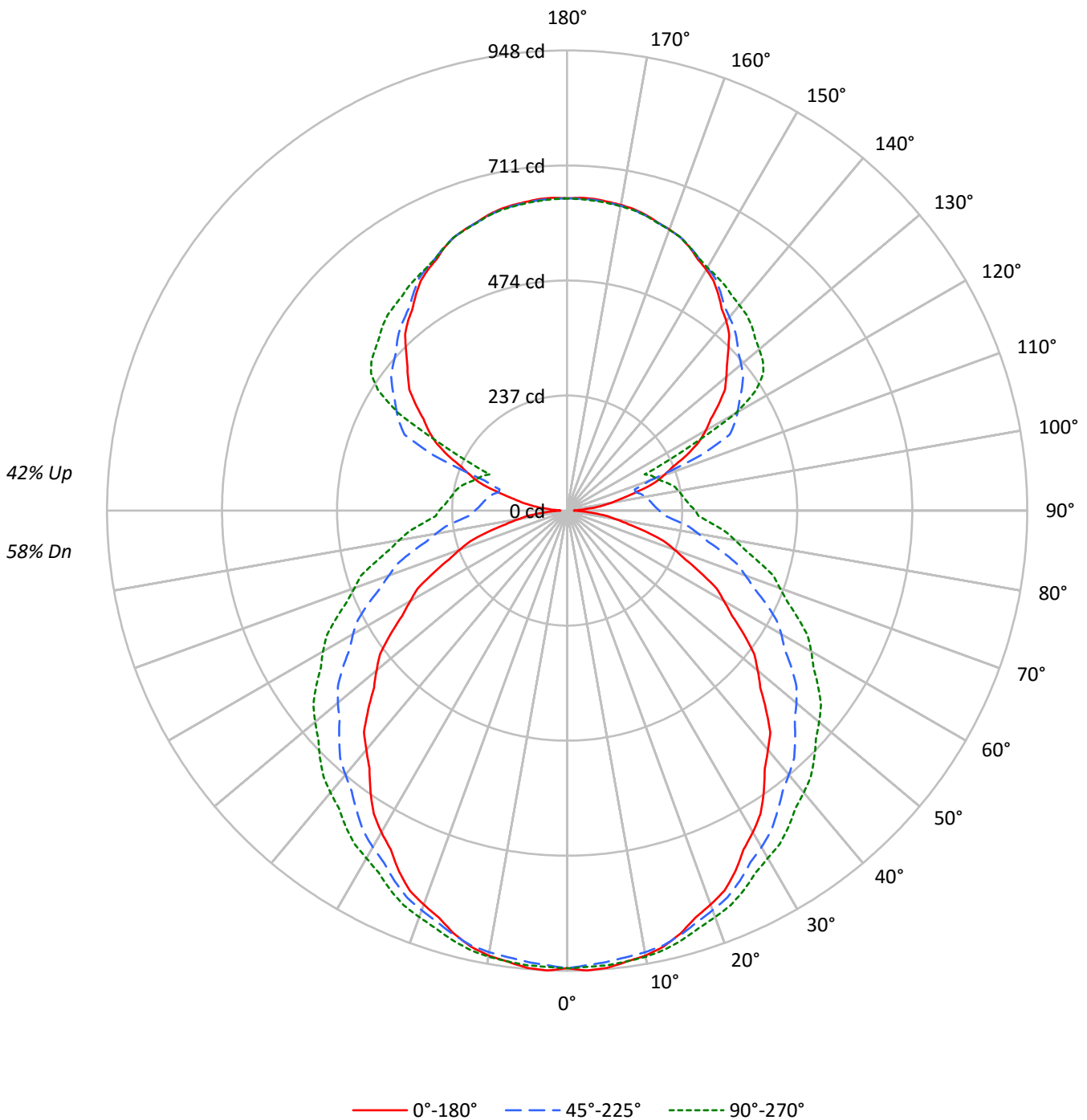
Input Watts (W): 55.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P331432-940

CATALOG NUMBER: S122DIP-S1005D530U940-4F0-1E-UDD-D

Luminous Intensity Polar Plot





TEST NUMBER: P331432-940

CATALOG NUMBER: S122DIP-S1005D530U940-4F0-1E-UDD-D

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 | 109 | 109 | 109 | 109 | 102 | 102 | 102 | 102 | 88 | 88 | 88 | 75 | 75 | 75 | 64 | 64 | 64 | 58 |
| 1 | 98 | 93 | 88 | 84 | 91 | 86 | 82 | 79 | 75 | 71 | 69 | 64 | 61 | 59 | 54 | 52 | 50 | 46 |
| 2 | 88 | 80 | 73 | 67 | 82 | 75 | 68 | 63 | 64 | 60 | 55 | 55 | 51 | 48 | 46 | 43 | 41 | 37 |
| 3 | 80 | 70 | 62 | 55 | 74 | 65 | 58 | 52 | 56 | 51 | 46 | 48 | 44 | 40 | 40 | 37 | 34 | 30 |
| 4 | 73 | 61 | 53 | 46 | 68 | 57 | 50 | 44 | 50 | 43 | 39 | 42 | 38 | 34 | 36 | 32 | 29 | 26 |
| 5 | 67 | 55 | 46 | 39 | 62 | 51 | 43 | 37 | 44 | 38 | 33 | 38 | 33 | 29 | 32 | 28 | 25 | 22 |
| 6 | 62 | 49 | 40 | 34 | 57 | 46 | 38 | 32 | 40 | 33 | 29 | 34 | 29 | 25 | 29 | 25 | 22 | 19 |
| 7 | 57 | 44 | 36 | 30 | 53 | 41 | 34 | 28 | 36 | 30 | 25 | 31 | 26 | 22 | 26 | 22 | 19 | 17 |
| 8 | 53 | 40 | 32 | 26 | 49 | 37 | 30 | 25 | 33 | 27 | 22 | 28 | 23 | 20 | 24 | 20 | 17 | 15 |
| 9 | 49 | 36 | 28 | 23 | 46 | 34 | 27 | 22 | 30 | 24 | 20 | 26 | 21 | 18 | 22 | 18 | 15 | 13 |
| 10 | 46 | 33 | 26 | 21 | 43 | 31 | 24 | 20 | 28 | 22 | 18 | 24 | 19 | 16 | 21 | 17 | 14 | 12 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 15224 | 15224 | 15224 |
| 5° | 15300 | 14656 | 14600 |
| 10° | 15203 | 14222 | 14063 |
| 15° | 14994 | 13763 | 13496 |
| 20° | 14728 | 13272 | 12952 |
| 25° | 14466 | 12799 | 12457 |
| 30° | 14098 | 12312 | 11962 |
| 35° | 13725 | 11842 | 11611 |
| 40° | 13332 | 11442 | 11262 |
| 45° | 12960 | 11082 | 10962 |
| 50° | 12561 | 10760 | 10668 |
| 55° | 12143 | 10411 | 10368 |
| 60° | 11628 | 10049 | 10051 |
| 65° | 11095 | 9625 | 9675 |
| 70° | 10498 | 9170 | 9268 |
| 75° | 9730 | 8725 | 8894 |
| 80° | 8523 | 8267 | 8514 |
| 85° | 7361 | 7873 | 8218 |



TEST NUMBER: P331432-940

CATALOG NUMBER: S122DIP-S1005D530U940-4F0-1E-UDD-D

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 89.3 | 1.6 |
| 10°-20° | 256.2 | 4.7 |
| 20°-30° | 388.3 | 7.1 |
| 30°-40° | 472.9 | 8.6 |
| 40°-50° | 508.8 | 9.3 |
| 50°-60° | 494.1 | 9.0 |
| 60°-70° | 431.4 | 7.9 |
| 70°-80° | 332.1 | 6.1 |
| 80°-90° | 224.5 | 4.1 |
| 90°-100° | 175.0 | 3.2 |
| 100°-110° | 190.8 | 3.5 |
| 110°-120° | 284.3 | 5.2 |
| 120°-130° | 388.5 | 7.1 |
| 130°-140° | 386.5 | 7.0 |
| 140°-150° | 346.1 | 6.3 |
| 150°-160° | 275.9 | 5.0 |
| 160°-170° | 177.8 | 3.2 |
| 170°-180° | 61.2 | 1.1 |
| 0°-30° | 733.8 | 13.4 |
| 0°-40° | 1206.7 | 22.0 |
| 0°-60° | 2209.5 | 40.3 |
| 0°-90° | 3197.5 | 58.3 |
| 90°-120° | 650.1 | 11.9 |
| 90°-150° | 1771.3 | 32.3 |
| 90°-180° | 2286.0 | 41.7 |
| 0°-180° | 5483.6 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|-----|-------|-----|-------|-----|------|
| 0° | 943 | 943 | 943 | 943 | 943 | |
| 5° | 946 | 941 | 933 | 941 | 940 | 90 |
| 15° | 902 | 904 | 905 | 916 | 916 | 254 |
| 25° | 820 | 830 | 842 | 858 | 862 | 377 |
| 35° | 706 | 730 | 756 | 785 | 795 | 441 |
| 45° | 579 | 617 | 664 | 705 | 720 | 447 |
| 55° | 444 | 495 | 564 | 612 | 631 | 397 |
| 65° | 303 | 371 | 451 | 505 | 525 | 301 |
| 75° | 168 | 245 | 332 | 389 | 409 | 178 |
| 85° | 49 | 134 | 221 | 277 | 298 | 53 |
| 90° | 14 | 99 | 190 | 244 | 264 | 11 |
| 95° | 41 | 92 | 175 | 227 | 246 | 46 |
| 105° | 148 | 196 | 146 | 197 | 216 | 159 |
| 115° | 273 | 299 | 369 | 203 | 176 | 268 |
| 125° | 381 | 390 | 440 | 478 | 494 | 340 |
| 135° | 470 | 478 | 495 | 527 | 538 | 363 |
| 145° | 543 | 543 | 550 | 562 | 566 | 340 |
| 155° | 598 | 594 | 599 | 602 | 598 | 275 |
| 165° | 630 | 628 | 629 | 632 | 629 | 178 |
| 175° | 644 | 642 | 642 | 645 | 641 | 61 |
| 180° | 643 | 643 | 643 | 643 | 643 | |



TEST NUMBER: P331432-940

CATALOG NUMBER: S122DIP-S1005D530U940-4F0-1E-UDD-D

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 942.9 | 942.9 | 942.9 | 942.9 | 942.9 | 942.9 | 942.9 | 942.9 | 942.9 | 942.9 | 942.9 |
| 2.5° | 948.4 | 947.7 | 946.9 | 946.2 | 945.5 | 944.2 | 942.5 | 940.8 | 939.1 | 937.5 | 938.7 |
| 5° | 945.7 | 944.8 | 943.9 | 942.9 | 942.0 | 940.7 | 938.9 | 937.0 | 935.2 | 933.4 | 935.2 |
| 7.5° | 937.2 | 936.6 | 935.9 | 935.4 | 934.8 | 933.8 | 932.4 | 930.9 | 929.6 | 928.2 | 930.3 |
| 10° | 930.7 | 930.1 | 929.4 | 928.8 | 928.2 | 927.5 | 926.6 | 925.6 | 924.7 | 923.8 | 926.2 |
| 12.5° | 919.7 | 919.8 | 920.0 | 920.1 | 920.2 | 919.9 | 919.3 | 918.6 | 917.9 | 917.2 | 919.7 |
| 15° | 902.0 | 902.6 | 903.1 | 903.7 | 904.4 | 904.6 | 904.6 | 904.6 | 904.6 | 904.6 | 907.4 |
| 17.5° | 879.0 | 880.3 | 881.5 | 882.8 | 884.0 | 885.2 | 886.2 | 887.2 | 888.1 | 889.1 | 892.0 |
| 20° | 863.7 | 865.2 | 866.7 | 868.3 | 869.8 | 871.1 | 872.4 | 873.5 | 874.8 | 876.0 | 879.3 |
| 22.5° | 847.3 | 849.0 | 850.8 | 852.6 | 854.3 | 856.0 | 857.7 | 859.4 | 861.1 | 862.8 | 866.2 |
| 25° | 819.9 | 822.1 | 824.2 | 826.3 | 828.5 | 830.9 | 833.6 | 836.3 | 839.1 | 841.8 | 845.4 |
| 27.5° | 787.1 | 790.6 | 794.1 | 797.5 | 801.0 | 804.3 | 807.5 | 810.7 | 814.0 | 817.3 | 821.8 |
| 30° | 765.3 | 769.2 | 773.2 | 777.1 | 781.0 | 785.1 | 789.0 | 792.9 | 796.8 | 800.8 | 805.7 |
| 32.5° | 741.2 | 745.6 | 750.1 | 754.6 | 758.9 | 763.5 | 768.2 | 772.8 | 777.6 | 782.2 | 787.8 |
| 35° | 706.5 | 711.7 | 716.8 | 722.0 | 727.2 | 732.6 | 738.4 | 744.1 | 749.9 | 755.7 | 762.4 |
| 37.5° | 668.8 | 674.8 | 680.7 | 686.6 | 692.6 | 699.3 | 706.8 | 714.3 | 721.8 | 729.2 | 736.6 |
| 40° | 643.6 | 650.3 | 657.0 | 663.7 | 670.4 | 677.8 | 686.0 | 694.2 | 702.4 | 710.6 | 718.5 |
| 42.5° | 619.6 | 626.2 | 632.9 | 639.6 | 646.3 | 654.3 | 663.8 | 673.2 | 682.6 | 692.1 | 700.6 |
| 45° | 579.4 | 587.6 | 595.8 | 604.0 | 612.2 | 621.6 | 632.3 | 642.9 | 653.5 | 664.1 | 673.6 |
| 47.5° | 539.8 | 548.8 | 557.7 | 566.6 | 575.5 | 586.2 | 598.7 | 611.1 | 623.6 | 636.0 | 645.9 |
| 50° | 512.5 | 521.9 | 531.3 | 540.7 | 550.1 | 561.7 | 575.3 | 589.0 | 602.6 | 616.4 | 626.7 |
| 52.5° | 486.2 | 496.1 | 506.0 | 515.9 | 525.8 | 538.0 | 552.3 | 566.8 | 581.1 | 595.6 | 606.1 |
| 55° | 444.2 | 455.0 | 466.0 | 477.0 | 487.9 | 501.2 | 517.0 | 532.8 | 548.6 | 564.4 | 575.3 |
| 57.5° | 402.6 | 414.9 | 427.2 | 439.6 | 451.9 | 466.1 | 482.2 | 498.3 | 514.4 | 530.5 | 542.2 |
| 60° | 373.1 | 386.1 | 399.2 | 412.2 | 425.3 | 440.5 | 457.8 | 475.1 | 492.4 | 509.7 | 521.3 |
| 62.5° | 346.9 | 360.3 | 373.9 | 387.4 | 401.0 | 416.4 | 433.7 | 451.0 | 468.4 | 485.7 | 497.9 |
| 65° | 303.4 | 318.3 | 333.1 | 348.0 | 362.9 | 379.3 | 397.3 | 415.1 | 433.0 | 450.9 | 463.4 |
| 67.5° | 263.5 | 279.0 | 294.5 | 310.1 | 325.7 | 342.6 | 361.0 | 379.3 | 397.6 | 416.0 | 428.6 |
| 70° | 235.1 | 250.8 | 266.6 | 282.4 | 298.2 | 315.5 | 334.4 | 353.2 | 372.0 | 390.8 | 403.9 |
| 72.5° | 208.8 | 225.1 | 241.4 | 257.6 | 273.9 | 291.6 | 310.7 | 329.8 | 348.8 | 367.9 | 380.7 |
| 75° | 168.1 | 185.1 | 202.1 | 219.1 | 236.1 | 254.3 | 273.8 | 293.2 | 312.6 | 332.1 | 345.1 |
| 77.5° | 128.8 | 146.5 | 164.3 | 182.1 | 199.9 | 218.6 | 238.4 | 258.2 | 277.9 | 297.7 | 310.7 |
| 80° | 102.5 | 121.0 | 139.6 | 158.1 | 176.6 | 195.7 | 215.4 | 235.2 | 254.9 | 274.6 | 287.4 |
| 82.5° | 80.6 | 98.9 | 117.2 | 135.5 | 153.7 | 172.9 | 192.9 | 212.9 | 232.8 | 252.8 | 265.6 |
| 85° | 49.2 | 68.0 | 86.9 | 105.7 | 124.5 | 143.7 | 163.1 | 182.5 | 202.0 | 221.4 | 234.2 |
| 87.5° | 26.8 | 45.2 | 63.5 | 81.9 | 100.2 | 119.1 | 138.8 | 158.4 | 178.0 | 197.5 | 210.1 |
| 90° | 14.1 | 32.9 | 51.6 | 70.4 | 89.2 | 108.6 | 128.9 | 149.2 | 169.4 | 189.7 | 202.3 |
| 92.5° | 21.9 | 38.3 | 54.6 | 70.9 | 87.1 | 104.9 | 123.9 | 143.1 | 162.2 | 181.4 | 193.5 |
| 95° | 41.2 | 52.1 | 62.9 | 73.7 | 84.6 | 99.5 | 118.5 | 137.4 | 156.3 | 175.3 | 187.3 |
| 97.5° | 69.6 | 72.7 | 75.7 | 78.8 | 81.9 | 93.0 | 112.2 | 131.3 | 150.5 | 169.7 | 181.4 |
| 100° | 91.9 | 89.0 | 86.1 | 83.1 | 80.2 | 88.1 | 106.9 | 125.6 | 144.5 | 163.2 | 175.2 |
| 102.5° | 115.4 | 122.7 | 129.9 | 137.2 | 144.5 | 149.0 | 150.8 | 152.7 | 154.4 | 156.3 | 168.4 |
| 105° | 148.3 | 160.2 | 172.1 | 184.0 | 195.9 | 195.6 | 183.2 | 170.8 | 158.4 | 145.9 | 157.7 |
| 107.5° | 187.4 | 197.0 | 206.5 | 216.1 | 225.6 | 221.0 | 202.2 | 183.5 | 164.8 | 146.1 | 155.1 |
| 110° | 211.6 | 219.9 | 228.1 | 236.4 | 244.6 | 241.2 | 226.2 | 211.2 | 196.2 | 181.2 | 180.6 |



TEST NUMBER: P331432-940

CATALOG NUMBER: S122DIP-S1005D530U940-4F0-1E-UDD-D

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 235.4 | 242.5 | 249.5 | 256.5 | 263.6 | 270.5 | 277.2 | 284.0 | 290.8 | 297.5 | 269.5 |
| 115° | 273.0 | 278.1 | 283.2 | 288.4 | 293.5 | 304.1 | 320.4 | 336.6 | 352.8 | 369.1 | 330.4 |
| 117.5° | 305.3 | 309.4 | 313.6 | 317.7 | 321.9 | 331.2 | 345.5 | 360.0 | 374.4 | 388.8 | 386.2 |
| 120° | 329.8 | 332.6 | 335.4 | 338.1 | 340.9 | 349.3 | 363.3 | 377.3 | 391.3 | 405.4 | 415.1 |
| 122.5° | 350.7 | 352.8 | 354.9 | 357.0 | 359.2 | 366.9 | 380.4 | 393.9 | 407.3 | 420.7 | 429.7 |
| 125° | 381.0 | 382.5 | 383.8 | 385.1 | 386.5 | 393.0 | 404.7 | 416.3 | 428.0 | 439.7 | 448.6 |
| 127.5° | 409.8 | 411.0 | 412.2 | 413.4 | 414.6 | 419.8 | 429.1 | 438.5 | 447.7 | 457.0 | 465.7 |
| 130° | 428.1 | 429.4 | 430.8 | 432.1 | 433.5 | 437.9 | 445.4 | 452.9 | 460.5 | 468.0 | 476.4 |
| 132.5° | 446.7 | 447.8 | 448.9 | 450.0 | 451.1 | 454.7 | 460.7 | 466.8 | 472.9 | 478.9 | 487.0 |
| 135° | 469.5 | 471.2 | 472.8 | 474.5 | 476.2 | 478.9 | 483.0 | 486.9 | 490.9 | 494.8 | 502.2 |
| 137.5° | 494.0 | 495.1 | 496.1 | 497.3 | 498.4 | 500.2 | 502.5 | 504.9 | 507.3 | 509.7 | 516.3 |
| 140° | 510.0 | 510.5 | 511.0 | 511.6 | 512.1 | 513.3 | 515.0 | 516.7 | 518.4 | 520.2 | 526.0 |
| 142.5° | 523.4 | 523.9 | 524.3 | 524.7 | 525.1 | 526.1 | 527.5 | 529.0 | 530.4 | 531.8 | 536.5 |
| 145° | 543.1 | 543.0 | 542.9 | 542.8 | 542.7 | 543.5 | 545.3 | 547.0 | 548.8 | 550.5 | 553.0 |
| 147.5° | 561.4 | 561.0 | 560.6 | 560.3 | 559.8 | 560.5 | 562.2 | 564.0 | 565.7 | 567.5 | 568.2 |
| 150° | 573.3 | 572.6 | 571.9 | 571.1 | 570.4 | 570.9 | 572.6 | 574.2 | 575.9 | 577.5 | 578.1 |
| 152.5° | 583.4 | 582.6 | 581.8 | 580.9 | 580.1 | 580.5 | 582.1 | 583.7 | 585.2 | 586.8 | 587.5 |
| 155° | 598.0 | 597.1 | 596.1 | 595.2 | 594.2 | 594.4 | 595.7 | 596.9 | 598.2 | 599.4 | 600.0 |
| 157.5° | 609.4 | 608.7 | 607.9 | 607.1 | 606.3 | 606.4 | 607.2 | 608.1 | 608.9 | 609.8 | 610.5 |
| 160° | 616.2 | 615.5 | 614.9 | 614.3 | 613.7 | 613.7 | 614.3 | 614.9 | 615.5 | 616.2 | 616.8 |
| 162.5° | 622.1 | 621.4 | 620.8 | 620.2 | 619.6 | 619.6 | 620.1 | 620.6 | 621.2 | 621.7 | 622.4 |
| 165° | 630.1 | 629.5 | 628.8 | 628.2 | 627.6 | 627.5 | 627.8 | 628.0 | 628.4 | 628.7 | 629.5 |
| 167.5° | 636.1 | 635.4 | 634.8 | 634.2 | 633.6 | 633.4 | 633.6 | 634.0 | 634.3 | 634.5 | 635.3 |
| 170° | 639.4 | 638.8 | 638.2 | 637.6 | 636.9 | 636.7 | 636.9 | 637.1 | 637.3 | 637.6 | 638.3 |
| 172.5° | 641.7 | 641.1 | 640.4 | 639.8 | 639.2 | 638.9 | 639.2 | 639.4 | 639.5 | 639.8 | 640.5 |
| 175° | 644.5 | 643.8 | 643.1 | 642.4 | 641.6 | 641.4 | 641.6 | 641.8 | 641.9 | 642.2 | 642.9 |
| 177.5° | 645.0 | 644.4 | 643.8 | 643.3 | 642.7 | 642.4 | 642.5 | 642.6 | 642.7 | 642.7 | 643.4 |
| 180° | 643.1 | 643.1 | 643.1 | 643.1 | 643.1 | 643.1 | 643.1 | 643.1 | 643.1 | 643.1 | 643.1 |



TEST NUMBER: P331432-940

CATALOG NUMBER: S122DIP-S1005D530U940-4F0-1E-UDD-D

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 942.9 | 942.9 | 942.9 | 942.9 | 942.9 | 942.9 | 942.9 | 942.9 |
| 2.5° | 939.9 | 941.1 | 942.4 | 942.7 | 942.2 | 941.7 | 941.2 | 940.8 |
| 5° | 937.0 | 938.9 | 940.7 | 941.4 | 941.1 | 940.8 | 940.5 | 940.2 |
| 7.5° | 932.6 | 934.8 | 936.9 | 937.9 | 937.5 | 937.3 | 936.9 | 936.7 |
| 10° | 928.6 | 931.1 | 933.5 | 934.6 | 934.2 | 934.0 | 933.7 | 933.4 |
| 12.5° | 922.1 | 924.5 | 926.9 | 928.0 | 927.7 | 927.4 | 927.1 | 926.8 |
| 15° | 910.2 | 912.8 | 915.6 | 916.9 | 916.5 | 916.2 | 915.9 | 915.6 |
| 17.5° | 894.8 | 897.7 | 900.5 | 902.0 | 902.0 | 902.0 | 902.0 | 902.0 |
| 20° | 882.6 | 886.0 | 889.3 | 891.0 | 891.0 | 891.0 | 891.0 | 891.0 |
| 22.5° | 869.5 | 872.9 | 876.2 | 878.2 | 878.6 | 879.1 | 879.6 | 880.1 |
| 25° | 849.1 | 852.7 | 856.4 | 858.6 | 859.6 | 860.5 | 861.4 | 862.3 |
| 27.5° | 826.4 | 831.1 | 835.7 | 838.3 | 839.0 | 839.6 | 840.3 | 841.0 |
| 30° | 810.6 | 815.4 | 820.3 | 823.1 | 824.0 | 824.9 | 825.9 | 826.8 |
| 32.5° | 793.4 | 799.0 | 804.6 | 808.2 | 809.9 | 811.5 | 813.2 | 814.8 |
| 35° | 769.1 | 775.8 | 782.5 | 786.8 | 789.0 | 791.1 | 793.3 | 795.3 |
| 37.5° | 744.0 | 751.4 | 758.8 | 763.7 | 765.9 | 768.2 | 770.4 | 772.7 |
| 40° | 726.4 | 734.3 | 742.2 | 747.5 | 750.3 | 753.0 | 755.7 | 758.5 |
| 42.5° | 709.3 | 717.9 | 726.6 | 732.2 | 734.9 | 737.7 | 740.4 | 743.2 |
| 45° | 683.0 | 692.4 | 701.8 | 708.0 | 711.1 | 714.1 | 717.1 | 720.1 |
| 47.5° | 655.7 | 665.5 | 675.4 | 682.0 | 685.3 | 688.7 | 692.0 | 695.4 |
| 50° | 636.9 | 647.3 | 657.6 | 664.5 | 667.8 | 671.1 | 674.5 | 677.8 |
| 52.5° | 616.7 | 627.2 | 637.8 | 644.9 | 648.5 | 652.1 | 655.7 | 659.2 |
| 55° | 586.3 | 597.2 | 608.1 | 615.5 | 619.5 | 623.5 | 627.4 | 631.3 |
| 57.5° | 554.1 | 565.9 | 577.7 | 585.5 | 589.5 | 593.5 | 597.5 | 601.5 |
| 60° | 532.8 | 544.4 | 555.9 | 563.8 | 568.0 | 572.3 | 576.6 | 580.8 |
| 62.5° | 510.2 | 522.5 | 534.8 | 542.9 | 546.9 | 550.9 | 554.9 | 558.9 |
| 65° | 475.9 | 488.3 | 500.8 | 509.0 | 512.9 | 516.8 | 520.8 | 524.8 |
| 67.5° | 441.1 | 453.7 | 466.3 | 474.7 | 478.8 | 482.9 | 487.1 | 491.2 |
| 70° | 417.0 | 430.0 | 443.1 | 451.4 | 455.0 | 458.7 | 462.4 | 466.0 |
| 72.5° | 393.5 | 406.4 | 419.1 | 427.8 | 432.1 | 436.5 | 440.9 | 445.2 |
| 75° | 358.2 | 371.2 | 384.3 | 392.8 | 396.7 | 400.7 | 404.7 | 408.6 |
| 77.5° | 323.6 | 336.6 | 349.6 | 358.3 | 362.5 | 366.8 | 371.0 | 375.2 |
| 80° | 300.1 | 313.0 | 325.7 | 334.2 | 338.5 | 342.7 | 347.0 | 351.2 |
| 82.5° | 278.3 | 291.1 | 303.8 | 312.2 | 316.2 | 320.2 | 324.2 | 328.2 |
| 85° | 246.9 | 259.7 | 272.4 | 280.9 | 285.2 | 289.4 | 293.6 | 297.9 |
| 87.5° | 222.6 | 235.1 | 247.5 | 255.7 | 259.7 | 263.6 | 267.5 | 271.4 |
| 90° | 215.0 | 227.7 | 240.3 | 248.6 | 252.4 | 256.3 | 260.2 | 264.0 |
| 92.5° | 205.7 | 217.8 | 230.1 | 238.0 | 241.7 | 245.6 | 249.3 | 253.1 |
| 95° | 199.4 | 211.5 | 223.6 | 231.3 | 234.9 | 238.4 | 241.9 | 245.5 |
| 97.5° | 193.0 | 204.6 | 216.3 | 224.0 | 227.7 | 231.4 | 235.1 | 238.8 |
| 100° | 187.3 | 199.4 | 211.4 | 219.3 | 222.7 | 226.3 | 229.9 | 233.4 |
| 102.5° | 180.4 | 192.5 | 204.6 | 212.4 | 216.1 | 219.6 | 223.3 | 226.9 |
| 105° | 169.4 | 181.2 | 193.0 | 200.7 | 204.5 | 208.2 | 212.0 | 215.8 |
| 107.5° | 164.2 | 173.2 | 182.3 | 188.7 | 192.4 | 196.2 | 199.9 | 203.7 |
| 110° | 179.9 | 179.3 | 178.7 | 180.3 | 184.0 | 187.8 | 191.5 | 195.3 |



TEST NUMBER: P331432-940

CATALOG NUMBER: S122DIP-S1005D530U940-4F0-1E-UDD-D

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 241.5 | 213.5 | 185.5 | 173.3 | 177.0 | 180.7 | 184.3 | 188.0 |
| 115° | 291.6 | 252.8 | 214.0 | 192.6 | 188.5 | 184.4 | 180.3 | 176.2 |
| 117.5° | 383.6 | 381.0 | 378.4 | 366.5 | 345.1 | 323.7 | 302.4 | 281.0 |
| 120° | 424.8 | 434.5 | 444.3 | 443.9 | 433.3 | 422.7 | 412.0 | 401.4 |
| 122.5° | 438.7 | 447.7 | 456.7 | 461.4 | 461.5 | 461.6 | 461.7 | 461.9 |
| 125° | 457.5 | 466.5 | 475.4 | 481.3 | 484.4 | 487.4 | 490.5 | 493.6 |
| 127.5° | 474.2 | 482.8 | 491.3 | 497.0 | 499.8 | 502.5 | 505.2 | 508.0 |
| 130° | 484.8 | 493.2 | 501.7 | 507.0 | 509.3 | 511.7 | 514.0 | 516.4 |
| 132.5° | 494.9 | 502.9 | 511.0 | 516.1 | 518.4 | 520.8 | 523.2 | 525.5 |
| 135° | 509.6 | 517.0 | 524.5 | 529.3 | 531.5 | 533.7 | 535.9 | 538.1 |
| 137.5° | 522.9 | 529.5 | 536.1 | 540.3 | 542.0 | 543.7 | 545.4 | 547.1 |
| 140° | 531.8 | 537.6 | 543.4 | 546.9 | 548.2 | 549.6 | 550.8 | 552.1 |
| 142.5° | 541.3 | 546.0 | 550.7 | 553.7 | 554.7 | 555.8 | 556.8 | 557.9 |
| 145° | 555.6 | 558.1 | 560.7 | 562.5 | 563.5 | 564.5 | 565.5 | 566.5 |
| 147.5° | 569.0 | 569.8 | 570.6 | 571.1 | 571.4 | 571.7 | 572.0 | 572.3 |
| 150° | 578.7 | 579.3 | 580.0 | 580.1 | 579.5 | 579.0 | 578.5 | 578.0 |
| 152.5° | 588.1 | 588.7 | 589.3 | 589.2 | 588.6 | 587.9 | 587.2 | 586.6 |
| 155° | 600.7 | 601.3 | 601.9 | 601.7 | 600.9 | 600.1 | 599.3 | 598.4 |
| 157.5° | 611.2 | 611.9 | 612.6 | 612.6 | 611.7 | 610.9 | 610.1 | 609.3 |
| 160° | 617.3 | 618.0 | 618.6 | 618.6 | 617.9 | 617.2 | 616.4 | 615.6 |
| 162.5° | 623.1 | 623.8 | 624.6 | 624.5 | 623.6 | 622.7 | 621.8 | 620.9 |
| 165° | 630.2 | 630.9 | 631.6 | 631.6 | 630.9 | 630.2 | 629.5 | 628.7 |
| 167.5° | 636.0 | 636.8 | 637.5 | 637.4 | 636.4 | 635.5 | 634.5 | 633.6 |
| 170° | 639.0 | 639.7 | 640.4 | 640.3 | 639.4 | 638.5 | 637.6 | 636.6 |
| 172.5° | 641.2 | 641.9 | 642.7 | 642.6 | 641.7 | 640.7 | 639.8 | 638.8 |
| 175° | 643.6 | 644.4 | 645.1 | 645.0 | 643.9 | 642.8 | 641.9 | 640.8 |
| 177.5° | 643.9 | 644.5 | 645.1 | 645.0 | 644.3 | 643.5 | 642.7 | 642.0 |
| 180° | 643.1 | 643.1 | 643.1 | 643.1 | 643.1 | 643.1 | 643.1 | 643.1 |

(END OF REPORT)