

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: P331414-940

Luminaire Tested: **S122DIP-S865D1080U940-4F0-1E-UDD-D**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331414-940
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-S865D1080U940-4F0-1E-UDD-D
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 865 LUMENS PER FOOT, DROP SATIN WHITE DIFFUSER
UPLIGHT 1080 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6957.1 lumens
Efficiency: N/A
Efficacy: 106.4 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: Semi-Indirect

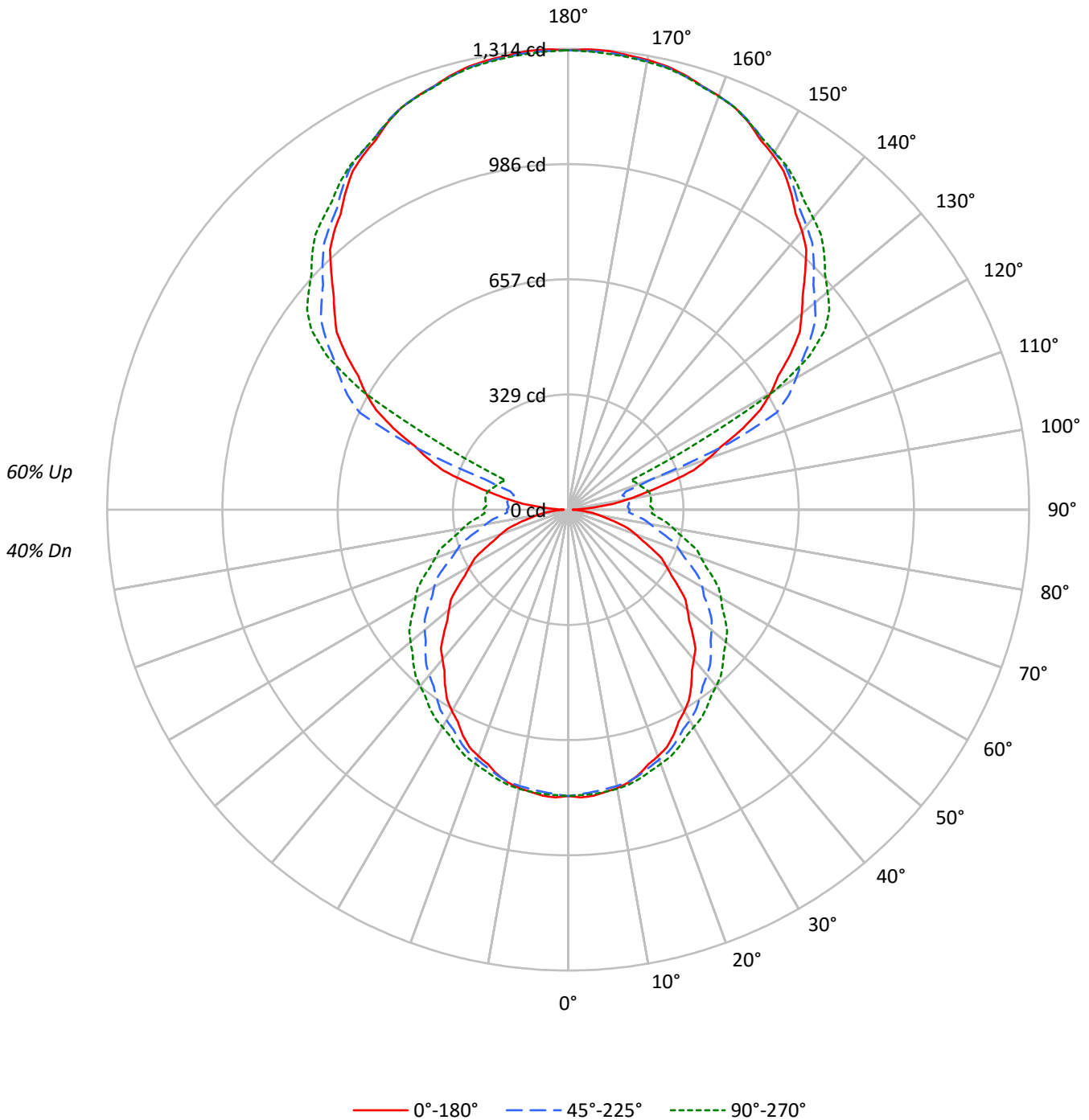
Input Watts (W): 65.4
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P331414-940

CATALOG NUMBER: S122DIP-S865D1080U940-4F0-1E-UDD-D

Luminous Intensity Polar Plot





TEST NUMBER: P331414-940

CATALOG NUMBER: S122DIP-S865D1080U940-4F0-1E-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 | 50 | 30 | 10 | 0 | |
| RCR | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 105 | 105 | 105 | 105 | 95 | 95 | 95 | 95 | 78 | 78 | 78 | 62 | 62 | 62 | 47 | 47 | 47 | 40 | | | | |
| 1 | 94 | 90 | 85 | 81 | 85 | 81 | 78 | 74 | 66 | 64 | 61 | 52 | 50 | 49 | 39 | 38 | 37 | 31 | | | | |
| 2 | 85 | 77 | 71 | 65 | 77 | 70 | 65 | 60 | 57 | 53 | 50 | 45 | 42 | 40 | 34 | 32 | 30 | 25 | | | | |
| 3 | 78 | 68 | 60 | 54 | 70 | 62 | 55 | 50 | 50 | 45 | 41 | 40 | 36 | 33 | 30 | 27 | 25 | 21 | | | | |
| 4 | 71 | 60 | 51 | 45 | 64 | 54 | 47 | 42 | 44 | 39 | 35 | 35 | 31 | 28 | 26 | 24 | 21 | 17 | | | | |
| 5 | 65 | 53 | 45 | 38 | 58 | 48 | 41 | 35 | 39 | 34 | 30 | 31 | 27 | 24 | 24 | 21 | 18 | 15 | | | | |
| 6 | 59 | 47 | 39 | 33 | 54 | 43 | 36 | 31 | 35 | 30 | 26 | 28 | 24 | 21 | 21 | 18 | 16 | 13 | | | | |
| 7 | 55 | 42 | 34 | 29 | 50 | 39 | 32 | 27 | 32 | 26 | 22 | 25 | 21 | 18 | 19 | 16 | 14 | 11 | | | | |
| 8 | 51 | 38 | 31 | 25 | 46 | 35 | 28 | 23 | 29 | 24 | 20 | 23 | 19 | 16 | 18 | 15 | 13 | 10 | | | | |
| 9 | 47 | 35 | 27 | 22 | 43 | 32 | 25 | 21 | 26 | 21 | 18 | 21 | 17 | 14 | 16 | 13 | 11 | 9 | | | | |
| 10 | 44 | 32 | 25 | 20 | 40 | 29 | 23 | 18 | 24 | 19 | 16 | 20 | 16 | 13 | 15 | 12 | 10 | 8 | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 13183 | 13183 | 13183 |
| 5° | 13247 | 12690 | 12640 |
| 10° | 13163 | 12315 | 12177 |
| 15° | 12982 | 11917 | 11686 |
| 20° | 12752 | 11492 | 11215 |
| 25° | 12527 | 11082 | 10786 |
| 30° | 12206 | 10661 | 10357 |
| 35° | 11884 | 10253 | 10054 |
| 40° | 11544 | 9907 | 9750 |
| 45° | 11222 | 9597 | 9493 |
| 50° | 10875 | 9317 | 9238 |
| 55° | 10513 | 9015 | 8977 |
| 60° | 10070 | 8702 | 8703 |
| 65° | 9607 | 8336 | 8376 |
| 70° | 9087 | 7940 | 8025 |
| 75° | 8422 | 7553 | 7701 |
| 80° | 7376 | 7159 | 7372 |
| 85° | 6374 | 6817 | 7118 |



TEST NUMBER: P331414-940

CATALOG NUMBER: S122DIP-S865D1080U940-4F0-1E-UDD-D

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 77.4 | 1.1 |
| 10°-20° | 221.8 | 3.2 |
| 20°-30° | 336.2 | 4.8 |
| 30°-40° | 409.5 | 5.9 |
| 40°-50° | 440.5 | 6.3 |
| 50°-60° | 427.8 | 6.1 |
| 60°-70° | 373.5 | 5.4 |
| 70°-80° | 287.6 | 4.1 |
| 80°-90° | 196.2 | 2.8 |
| 90°-100° | 176.7 | 2.5 |
| 100°-110° | 257.3 | 3.7 |
| 110°-120° | 492.5 | 7.1 |
| 120°-130° | 742.9 | 10.7 |
| 130°-140° | 767.0 | 11.0 |
| 140°-150° | 701.6 | 10.1 |
| 150°-160° | 562.0 | 8.1 |
| 160°-170° | 362.1 | 5.2 |
| 170°-180° | 124.6 | 1.8 |
| 0°-30° | 635.4 | 9.1 |
| 0°-40° | 1044.8 | 15.0 |
| 0°-60° | 1913.1 | 27.5 |
| 0°-90° | 2770.4 | 39.8 |
| 90°-120° | 926.5 | 13.3 |
| 90°-150° | 3137.9 | 45.1 |
| 90°-180° | 4187.0 | 60.2 |
| 0°-180° | 6957.1 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 816 | 816 | 816 | 816 | 816 | |
| 5° | 819 | 815 | 808 | 815 | 814 | 78 |
| 15° | 781 | 783 | 783 | 793 | 793 | 220 |
| 25° | 710 | 718 | 729 | 742 | 747 | 326 |
| 35° | 612 | 632 | 654 | 679 | 689 | 382 |
| 45° | 502 | 534 | 575 | 610 | 624 | 387 |
| 55° | 385 | 428 | 489 | 530 | 547 | 344 |
| 65° | 263 | 321 | 390 | 437 | 454 | 261 |
| 75° | 146 | 212 | 288 | 336 | 354 | 154 |
| 85° | 43 | 116 | 192 | 240 | 258 | 46 |
| 90° | 13 | 92 | 175 | 225 | 243 | 11 |
| 95° | 71 | 98 | 173 | 221 | 236 | 83 |
| 105° | 294 | 342 | 160 | 209 | 228 | 315 |
| 115° | 550 | 582 | 656 | 272 | 197 | 541 |
| 125° | 773 | 788 | 841 | 878 | 893 | 689 |
| 135° | 955 | 970 | 990 | 1023 | 1032 | 738 |
| 145° | 1106 | 1106 | 1121 | 1134 | 1136 | 692 |
| 155° | 1218 | 1211 | 1221 | 1226 | 1219 | 561 |
| 165° | 1284 | 1278 | 1281 | 1287 | 1281 | 362 |
| 175° | 1313 | 1307 | 1308 | 1314 | 1305 | 125 |
| 180° | 1310 | 1310 | 1310 | 1310 | 1310 | |



TEST NUMBER: P331414-940

CATALOG NUMBER: S122DIP-S865D1080U940-4F0-1E-UDD-D

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 816.5 | 816.5 | 816.5 | 816.5 | 816.5 | 816.5 | 816.5 | 816.5 | 816.5 | 816.5 | 816.5 |
| 2.5° | 821.2 | 820.6 | 819.9 | 819.3 | 818.7 | 817.6 | 816.1 | 814.7 | 813.2 | 811.7 | 812.8 |
| 5° | 818.8 | 818.1 | 817.3 | 816.5 | 815.6 | 814.5 | 812.9 | 811.3 | 809.8 | 808.2 | 809.8 |
| 7.5° | 811.5 | 810.9 | 810.4 | 809.9 | 809.4 | 808.5 | 807.3 | 806.1 | 804.9 | 803.7 | 805.6 |
| 10° | 805.8 | 805.3 | 804.8 | 804.2 | 803.7 | 803.1 | 802.3 | 801.5 | 800.7 | 799.9 | 802.0 |
| 12.5° | 796.3 | 796.5 | 796.6 | 796.7 | 796.7 | 796.5 | 795.9 | 795.3 | 794.8 | 794.2 | 796.3 |
| 15° | 781.0 | 781.5 | 782.0 | 782.6 | 783.0 | 783.3 | 783.3 | 783.3 | 783.3 | 783.3 | 785.7 |
| 17.5° | 761.1 | 762.1 | 763.3 | 764.4 | 765.4 | 766.4 | 767.3 | 768.1 | 769.0 | 769.8 | 772.3 |
| 20° | 747.8 | 749.1 | 750.5 | 751.8 | 753.0 | 754.3 | 755.3 | 756.3 | 757.4 | 758.5 | 761.3 |
| 22.5° | 733.6 | 735.1 | 736.6 | 738.2 | 739.7 | 741.2 | 742.7 | 744.1 | 745.6 | 747.1 | 750.0 |
| 25° | 710.0 | 711.8 | 713.6 | 715.5 | 717.3 | 719.4 | 721.8 | 724.2 | 726.5 | 728.9 | 732.0 |
| 27.5° | 681.5 | 684.6 | 687.5 | 690.5 | 693.6 | 696.4 | 699.2 | 702.0 | 704.8 | 707.6 | 711.6 |
| 30° | 662.6 | 666.0 | 669.5 | 672.9 | 676.3 | 679.8 | 683.1 | 686.5 | 690.0 | 693.4 | 697.6 |
| 32.5° | 641.8 | 645.6 | 649.4 | 653.4 | 657.2 | 661.1 | 665.1 | 669.2 | 673.2 | 677.3 | 682.2 |
| 35° | 611.7 | 616.2 | 620.7 | 625.2 | 629.6 | 634.4 | 639.4 | 644.4 | 649.3 | 654.3 | 660.1 |
| 37.5° | 579.1 | 584.2 | 589.4 | 594.5 | 599.7 | 605.5 | 612.0 | 618.5 | 624.9 | 631.4 | 637.8 |
| 40° | 557.3 | 563.1 | 568.9 | 574.7 | 580.4 | 586.9 | 594.0 | 601.1 | 608.2 | 615.3 | 622.1 |
| 42.5° | 536.5 | 542.2 | 548.0 | 553.8 | 559.6 | 566.6 | 574.7 | 582.9 | 591.0 | 599.2 | 606.6 |
| 45° | 501.7 | 508.8 | 515.9 | 523.0 | 530.1 | 538.2 | 547.4 | 556.7 | 565.9 | 575.1 | 583.2 |
| 47.5° | 467.3 | 475.1 | 482.9 | 490.6 | 498.3 | 507.6 | 518.4 | 529.1 | 539.9 | 550.7 | 559.2 |
| 50° | 443.7 | 451.8 | 460.0 | 468.1 | 476.4 | 486.3 | 498.1 | 510.0 | 521.8 | 533.7 | 542.6 |
| 52.5° | 421.0 | 429.5 | 438.2 | 446.7 | 455.3 | 465.8 | 478.3 | 490.7 | 503.2 | 515.7 | 524.8 |
| 55° | 384.6 | 394.0 | 403.5 | 413.0 | 422.4 | 434.0 | 447.6 | 461.4 | 475.0 | 488.7 | 498.1 |
| 57.5° | 348.6 | 359.3 | 370.0 | 380.6 | 391.3 | 403.6 | 417.5 | 431.5 | 445.4 | 459.3 | 469.6 |
| 60° | 323.1 | 334.3 | 345.6 | 357.0 | 368.3 | 381.4 | 396.4 | 411.3 | 426.3 | 441.4 | 451.4 |
| 62.5° | 300.3 | 312.0 | 323.8 | 335.5 | 347.2 | 360.6 | 375.6 | 390.6 | 405.6 | 420.5 | 431.1 |
| 65° | 262.7 | 275.5 | 288.5 | 301.3 | 314.2 | 328.4 | 343.9 | 359.4 | 375.0 | 390.5 | 401.3 |
| 67.5° | 228.1 | 241.6 | 255.0 | 268.5 | 282.0 | 296.7 | 312.5 | 328.4 | 344.3 | 360.2 | 371.0 |
| 70° | 203.5 | 217.2 | 230.9 | 244.5 | 258.2 | 273.2 | 289.5 | 305.8 | 322.1 | 338.4 | 349.7 |
| 72.5° | 180.8 | 194.9 | 209.0 | 223.1 | 237.2 | 252.4 | 269.0 | 285.5 | 302.0 | 318.5 | 329.7 |
| 75° | 145.5 | 160.2 | 175.0 | 189.8 | 204.5 | 220.3 | 237.0 | 253.9 | 270.7 | 287.5 | 298.8 |
| 77.5° | 111.5 | 126.9 | 142.3 | 157.7 | 173.1 | 189.3 | 206.4 | 223.6 | 240.6 | 257.7 | 268.9 |
| 80° | 88.7 | 104.8 | 120.8 | 136.9 | 152.9 | 169.4 | 186.5 | 203.7 | 220.7 | 237.8 | 248.9 |
| 82.5° | 69.8 | 85.6 | 101.5 | 117.3 | 133.1 | 149.7 | 167.0 | 184.3 | 201.6 | 218.9 | 230.0 |
| 85° | 42.6 | 58.9 | 75.2 | 91.5 | 107.8 | 124.4 | 141.2 | 158.0 | 174.9 | 191.7 | 202.8 |
| 87.5° | 23.4 | 39.5 | 55.6 | 71.8 | 87.9 | 104.6 | 121.7 | 138.9 | 156.0 | 173.3 | 184.1 |
| 90° | 12.8 | 30.3 | 47.9 | 65.5 | 83.0 | 101.1 | 119.6 | 138.1 | 156.7 | 175.1 | 186.7 |
| 92.5° | 30.1 | 44.1 | 58.1 | 72.0 | 86.0 | 101.5 | 118.5 | 135.5 | 152.7 | 169.7 | 180.5 |
| 95° | 71.1 | 76.5 | 81.9 | 87.3 | 92.7 | 104.1 | 121.3 | 138.6 | 155.8 | 173.1 | 184.0 |
| 97.5° | 130.5 | 122.0 | 113.3 | 104.8 | 96.1 | 101.1 | 119.7 | 138.3 | 156.9 | 175.4 | 185.9 |
| 100° | 176.0 | 156.9 | 137.8 | 118.7 | 99.5 | 99.2 | 117.4 | 135.7 | 154.1 | 172.4 | 183.8 |
| 102.5° | 225.2 | 227.9 | 230.7 | 233.5 | 236.3 | 229.9 | 214.2 | 198.6 | 182.9 | 167.3 | 179.0 |
| 105° | 294.1 | 308.0 | 322.0 | 335.9 | 349.9 | 334.9 | 291.1 | 247.3 | 203.4 | 159.6 | 171.1 |
| 107.5° | 374.1 | 385.2 | 396.5 | 407.6 | 418.8 | 396.5 | 340.6 | 284.7 | 228.9 | 173.0 | 179.5 |
| 110° | 424.6 | 434.4 | 444.1 | 453.7 | 463.4 | 444.3 | 396.3 | 348.2 | 300.2 | 252.3 | 239.6 |



TEST NUMBER: P331414-940

CATALOG NUMBER: S122DIP-S865D1080U940-4F0-1E-UDD-D

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 473.2 | 481.5 | 489.9 | 498.2 | 506.6 | 509.3 | 506.5 | 503.7 | 501.0 | 498.2 | 429.7 |
| 115° | 549.8 | 556.2 | 562.8 | 569.2 | 575.7 | 587.5 | 604.6 | 621.7 | 638.7 | 655.9 | 566.2 |
| 117.5° | 617.1 | 622.9 | 628.8 | 634.7 | 640.6 | 650.9 | 665.4 | 680.0 | 694.6 | 709.1 | 693.3 |
| 120° | 667.1 | 671.3 | 675.6 | 679.8 | 683.9 | 693.2 | 707.5 | 721.8 | 736.1 | 750.5 | 760.4 |
| 122.5° | 709.5 | 713.3 | 717.0 | 720.8 | 724.6 | 733.4 | 747.4 | 761.4 | 775.5 | 789.5 | 798.2 |
| 125° | 773.0 | 775.8 | 778.6 | 781.2 | 784.0 | 791.6 | 804.0 | 816.4 | 828.8 | 841.2 | 849.8 |
| 127.5° | 831.6 | 834.4 | 837.1 | 839.9 | 842.7 | 849.0 | 858.7 | 868.5 | 878.3 | 888.1 | 896.7 |
| 130° | 868.8 | 871.9 | 874.9 | 878.1 | 881.2 | 886.7 | 894.5 | 902.3 | 910.2 | 918.0 | 926.7 |
| 132.5° | 906.7 | 909.3 | 911.9 | 914.5 | 917.1 | 921.7 | 928.3 | 934.9 | 941.4 | 948.0 | 956.1 |
| 135° | 954.8 | 958.1 | 961.5 | 964.9 | 968.3 | 972.2 | 976.8 | 981.2 | 985.8 | 990.3 | 997.9 |
| 137.5° | 1004.7 | 1007.0 | 1009.2 | 1011.6 | 1013.9 | 1016.7 | 1020.0 | 1023.3 | 1026.6 | 1029.9 | 1036.8 |
| 140° | 1037.2 | 1038.7 | 1040.1 | 1041.5 | 1042.9 | 1045.1 | 1047.9 | 1050.8 | 1053.6 | 1056.5 | 1062.6 |
| 142.5° | 1064.5 | 1065.9 | 1067.1 | 1068.4 | 1069.6 | 1071.6 | 1074.3 | 1077.1 | 1079.9 | 1082.6 | 1087.7 |
| 145° | 1106.3 | 1106.0 | 1105.8 | 1105.6 | 1105.4 | 1107.1 | 1110.6 | 1114.2 | 1117.8 | 1121.4 | 1124.4 |
| 147.5° | 1143.6 | 1142.8 | 1142.0 | 1141.2 | 1140.4 | 1141.7 | 1145.3 | 1148.8 | 1152.4 | 1155.9 | 1157.2 |
| 150° | 1167.9 | 1166.4 | 1164.9 | 1163.4 | 1162.0 | 1162.9 | 1166.3 | 1169.7 | 1173.0 | 1176.3 | 1177.7 |
| 152.5° | 1188.3 | 1186.7 | 1185.0 | 1183.4 | 1181.8 | 1182.5 | 1185.7 | 1188.9 | 1192.1 | 1195.3 | 1196.6 |
| 155° | 1218.1 | 1216.2 | 1214.3 | 1212.4 | 1210.5 | 1210.9 | 1213.4 | 1215.8 | 1218.4 | 1220.9 | 1222.2 |
| 157.5° | 1241.4 | 1239.8 | 1238.2 | 1236.6 | 1235.0 | 1235.1 | 1236.9 | 1238.6 | 1240.4 | 1242.2 | 1243.6 |
| 160° | 1255.1 | 1253.8 | 1252.5 | 1251.2 | 1250.0 | 1250.0 | 1251.2 | 1252.5 | 1253.8 | 1255.1 | 1256.3 |
| 162.5° | 1267.2 | 1266.0 | 1264.6 | 1263.4 | 1262.1 | 1262.0 | 1263.1 | 1264.3 | 1265.3 | 1266.4 | 1267.8 |
| 165° | 1283.5 | 1282.2 | 1280.9 | 1279.7 | 1278.4 | 1278.1 | 1278.7 | 1279.4 | 1280.1 | 1280.7 | 1282.1 |
| 167.5° | 1295.7 | 1294.4 | 1293.1 | 1291.8 | 1290.6 | 1290.2 | 1290.8 | 1291.4 | 1292.0 | 1292.6 | 1294.1 |
| 170° | 1302.4 | 1301.2 | 1299.9 | 1298.7 | 1297.4 | 1297.0 | 1297.4 | 1297.8 | 1298.2 | 1298.7 | 1300.1 |
| 172.5° | 1307.0 | 1305.7 | 1304.5 | 1303.2 | 1302.0 | 1301.5 | 1302.0 | 1302.3 | 1302.8 | 1303.2 | 1304.7 |
| 175° | 1312.9 | 1311.4 | 1309.9 | 1308.5 | 1307.0 | 1306.4 | 1306.9 | 1307.3 | 1307.7 | 1308.1 | 1309.7 |
| 177.5° | 1313.8 | 1312.7 | 1311.4 | 1310.3 | 1309.1 | 1308.6 | 1308.8 | 1308.9 | 1309.1 | 1309.3 | 1310.5 |
| 180° | 1310.0 | 1310.0 | 1310.0 | 1310.0 | 1310.0 | 1310.0 | 1310.0 | 1310.0 | 1310.0 | 1310.0 | 1310.0 |



TEST NUMBER: P331414-940

CATALOG NUMBER: S122DIP-S865D1080U940-4F0-1E-UDD-D

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 816.5 | 816.5 | 816.5 | 816.5 | 816.5 | 816.5 | 816.5 | 816.5 |
| 2.5° | 813.8 | 814.8 | 815.9 | 816.3 | 815.8 | 815.4 | 814.9 | 814.6 |
| 5° | 811.3 | 812.9 | 814.5 | 815.1 | 814.8 | 814.6 | 814.3 | 814.0 |
| 7.5° | 807.4 | 809.3 | 811.3 | 812.1 | 811.8 | 811.5 | 811.3 | 811.0 |
| 10° | 804.1 | 806.2 | 808.3 | 809.2 | 809.0 | 808.7 | 808.4 | 808.2 |
| 12.5° | 798.4 | 800.5 | 802.6 | 803.5 | 803.3 | 803.0 | 802.7 | 802.5 |
| 15° | 788.0 | 790.4 | 792.8 | 793.8 | 793.5 | 793.3 | 793.0 | 792.8 |
| 17.5° | 774.8 | 777.2 | 779.7 | 781.0 | 781.0 | 781.0 | 781.0 | 781.0 |
| 20° | 764.3 | 767.1 | 770.0 | 771.5 | 771.5 | 771.5 | 771.5 | 771.5 |
| 22.5° | 752.9 | 755.8 | 758.7 | 760.4 | 760.7 | 761.2 | 761.6 | 762.1 |
| 25° | 735.2 | 738.3 | 741.5 | 743.5 | 744.2 | 745.0 | 745.8 | 746.6 |
| 27.5° | 715.6 | 719.6 | 723.5 | 725.9 | 726.5 | 727.0 | 727.6 | 728.2 |
| 30° | 701.8 | 706.0 | 710.2 | 712.7 | 713.5 | 714.3 | 715.1 | 715.9 |
| 32.5° | 687.0 | 691.8 | 696.6 | 699.8 | 701.2 | 702.6 | 704.0 | 705.4 |
| 35° | 665.9 | 671.7 | 677.5 | 681.3 | 683.1 | 685.0 | 686.8 | 688.7 |
| 37.5° | 644.2 | 650.6 | 657.0 | 661.2 | 663.2 | 665.1 | 667.1 | 669.1 |
| 40° | 628.9 | 635.8 | 642.7 | 647.2 | 649.6 | 651.9 | 654.3 | 656.7 |
| 42.5° | 614.1 | 621.6 | 629.1 | 634.0 | 636.3 | 638.7 | 641.1 | 643.5 |
| 45° | 591.4 | 599.5 | 607.7 | 613.1 | 615.7 | 618.3 | 621.0 | 623.6 |
| 47.5° | 567.8 | 576.2 | 584.8 | 590.5 | 593.3 | 596.3 | 599.1 | 602.1 |
| 50° | 551.5 | 560.4 | 569.4 | 575.3 | 578.2 | 581.1 | 584.0 | 586.9 |
| 52.5° | 534.0 | 543.1 | 552.2 | 558.4 | 561.5 | 564.6 | 567.7 | 570.8 |
| 55° | 507.7 | 517.1 | 526.6 | 533.0 | 536.4 | 539.8 | 543.2 | 546.6 |
| 57.5° | 479.7 | 489.9 | 500.2 | 507.0 | 510.4 | 513.9 | 517.4 | 520.8 |
| 60° | 461.4 | 471.4 | 481.3 | 488.1 | 491.9 | 495.5 | 499.2 | 502.9 |
| 62.5° | 441.8 | 452.4 | 463.0 | 470.1 | 473.5 | 477.0 | 480.5 | 483.9 |
| 65° | 412.1 | 422.8 | 433.6 | 440.7 | 444.1 | 447.5 | 450.9 | 454.3 |
| 67.5° | 381.9 | 392.8 | 403.8 | 411.0 | 414.6 | 418.1 | 421.7 | 425.3 |
| 70° | 361.1 | 372.3 | 383.6 | 390.8 | 394.0 | 397.2 | 400.4 | 403.5 |
| 72.5° | 340.7 | 351.8 | 362.9 | 370.3 | 374.2 | 377.9 | 381.7 | 385.5 |
| 75° | 310.1 | 321.5 | 332.8 | 340.1 | 343.6 | 347.0 | 350.4 | 353.8 |
| 77.5° | 280.3 | 291.5 | 302.7 | 310.2 | 313.9 | 317.5 | 321.3 | 324.9 |
| 80° | 259.9 | 271.0 | 282.0 | 289.4 | 293.0 | 296.8 | 300.4 | 304.1 |
| 82.5° | 241.0 | 252.0 | 263.1 | 270.4 | 273.8 | 277.2 | 280.7 | 284.2 |
| 85° | 213.7 | 224.8 | 235.9 | 243.3 | 246.9 | 250.6 | 254.2 | 258.0 |
| 87.5° | 195.1 | 206.1 | 217.0 | 224.2 | 227.7 | 231.0 | 234.5 | 238.0 |
| 90° | 198.3 | 209.8 | 221.4 | 229.0 | 232.6 | 236.1 | 239.7 | 243.3 |
| 92.5° | 191.4 | 202.2 | 213.1 | 220.3 | 223.6 | 227.0 | 230.4 | 233.8 |
| 95° | 195.1 | 206.2 | 217.2 | 224.2 | 227.2 | 230.2 | 233.1 | 236.0 |
| 97.5° | 196.5 | 207.1 | 217.7 | 224.6 | 228.0 | 231.3 | 234.7 | 238.1 |
| 100° | 195.2 | 206.6 | 218.0 | 225.3 | 228.7 | 232.0 | 235.3 | 238.6 |
| 102.5° | 190.6 | 202.4 | 214.1 | 221.7 | 225.2 | 228.6 | 232.1 | 235.6 |
| 105° | 182.6 | 194.1 | 205.6 | 213.3 | 217.0 | 220.8 | 224.5 | 228.2 |
| 107.5° | 185.9 | 192.4 | 198.9 | 204.0 | 207.8 | 211.5 | 215.3 | 218.9 |
| 110° | 226.9 | 214.3 | 201.7 | 197.2 | 200.9 | 204.6 | 208.4 | 212.1 |



TEST NUMBER: P331414-940

CATALOG NUMBER: S122DIP-S865D1080U940-4F0-1E-UDD-D

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 361.3 | 292.8 | 224.4 | 192.0 | 195.6 | 199.1 | 202.7 | 206.3 |
| 115° | 476.6 | 386.9 | 297.3 | 246.4 | 234.1 | 221.8 | 209.6 | 197.2 |
| 117.5° | 677.5 | 661.6 | 645.9 | 614.4 | 567.2 | 520.0 | 472.9 | 425.8 |
| 120° | 770.3 | 780.2 | 790.0 | 782.2 | 756.6 | 731.1 | 705.5 | 680.0 |
| 122.5° | 806.8 | 815.5 | 824.2 | 827.0 | 823.9 | 820.9 | 817.9 | 814.8 |
| 125° | 858.4 | 866.9 | 875.5 | 881.3 | 884.3 | 887.3 | 890.3 | 893.3 |
| 127.5° | 905.4 | 914.1 | 922.7 | 928.3 | 930.8 | 933.2 | 935.6 | 938.1 |
| 130° | 935.3 | 943.9 | 952.5 | 957.8 | 959.7 | 961.6 | 963.5 | 965.4 |
| 132.5° | 964.1 | 972.2 | 980.3 | 985.3 | 987.2 | 989.1 | 991.0 | 992.8 |
| 135° | 1005.6 | 1013.3 | 1020.8 | 1025.5 | 1027.2 | 1028.9 | 1030.6 | 1032.2 |
| 137.5° | 1043.7 | 1050.6 | 1057.6 | 1061.5 | 1062.6 | 1063.6 | 1064.7 | 1065.8 |
| 140° | 1068.6 | 1074.8 | 1080.8 | 1084.2 | 1084.7 | 1085.2 | 1085.7 | 1086.3 |
| 142.5° | 1092.8 | 1097.9 | 1103.0 | 1105.7 | 1106.0 | 1106.3 | 1106.6 | 1107.0 |
| 145° | 1127.5 | 1130.5 | 1133.6 | 1135.2 | 1135.5 | 1135.8 | 1136.0 | 1136.3 |
| 147.5° | 1158.5 | 1159.8 | 1161.1 | 1161.6 | 1161.4 | 1161.2 | 1160.9 | 1160.7 |
| 150° | 1178.9 | 1180.2 | 1181.4 | 1181.5 | 1180.4 | 1179.5 | 1178.4 | 1177.3 |
| 152.5° | 1197.8 | 1199.2 | 1200.4 | 1200.3 | 1198.9 | 1197.6 | 1196.1 | 1194.8 |
| 155° | 1223.4 | 1224.8 | 1226.0 | 1225.7 | 1224.1 | 1222.4 | 1220.8 | 1219.1 |
| 157.5° | 1245.0 | 1246.4 | 1247.9 | 1247.8 | 1246.2 | 1244.5 | 1242.9 | 1241.2 |
| 160° | 1257.6 | 1258.8 | 1260.1 | 1260.0 | 1258.6 | 1257.0 | 1255.6 | 1254.1 |
| 162.5° | 1269.3 | 1270.7 | 1272.2 | 1271.9 | 1270.2 | 1268.4 | 1266.5 | 1264.7 |
| 165° | 1283.6 | 1285.0 | 1286.6 | 1286.6 | 1285.0 | 1283.6 | 1282.1 | 1280.7 |
| 167.5° | 1295.6 | 1297.0 | 1298.5 | 1298.2 | 1296.4 | 1294.5 | 1292.6 | 1290.7 |
| 170° | 1301.6 | 1303.1 | 1304.6 | 1304.3 | 1302.4 | 1300.6 | 1298.7 | 1296.7 |
| 172.5° | 1306.2 | 1307.6 | 1309.1 | 1308.9 | 1307.0 | 1305.1 | 1303.2 | 1301.3 |
| 175° | 1311.1 | 1312.6 | 1314.0 | 1313.8 | 1311.6 | 1309.5 | 1307.4 | 1305.3 |
| 177.5° | 1311.6 | 1312.8 | 1314.0 | 1313.8 | 1312.3 | 1310.8 | 1309.3 | 1307.8 |
| 180° | 1310.0 | 1310.0 | 1310.0 | 1310.0 | 1310.0 | 1310.0 | 1310.0 | 1310.0 |

(END OF REPORT)