

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: P331399-930

Luminaire Tested: **SA2XXDIP-C865D725U930-4F0-1E-UDD-F**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P331399-930
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-2,
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: SA2XXDIP-C865D725U930-4F0-1E-UDD-F
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 865 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
UPLIGHT 725 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

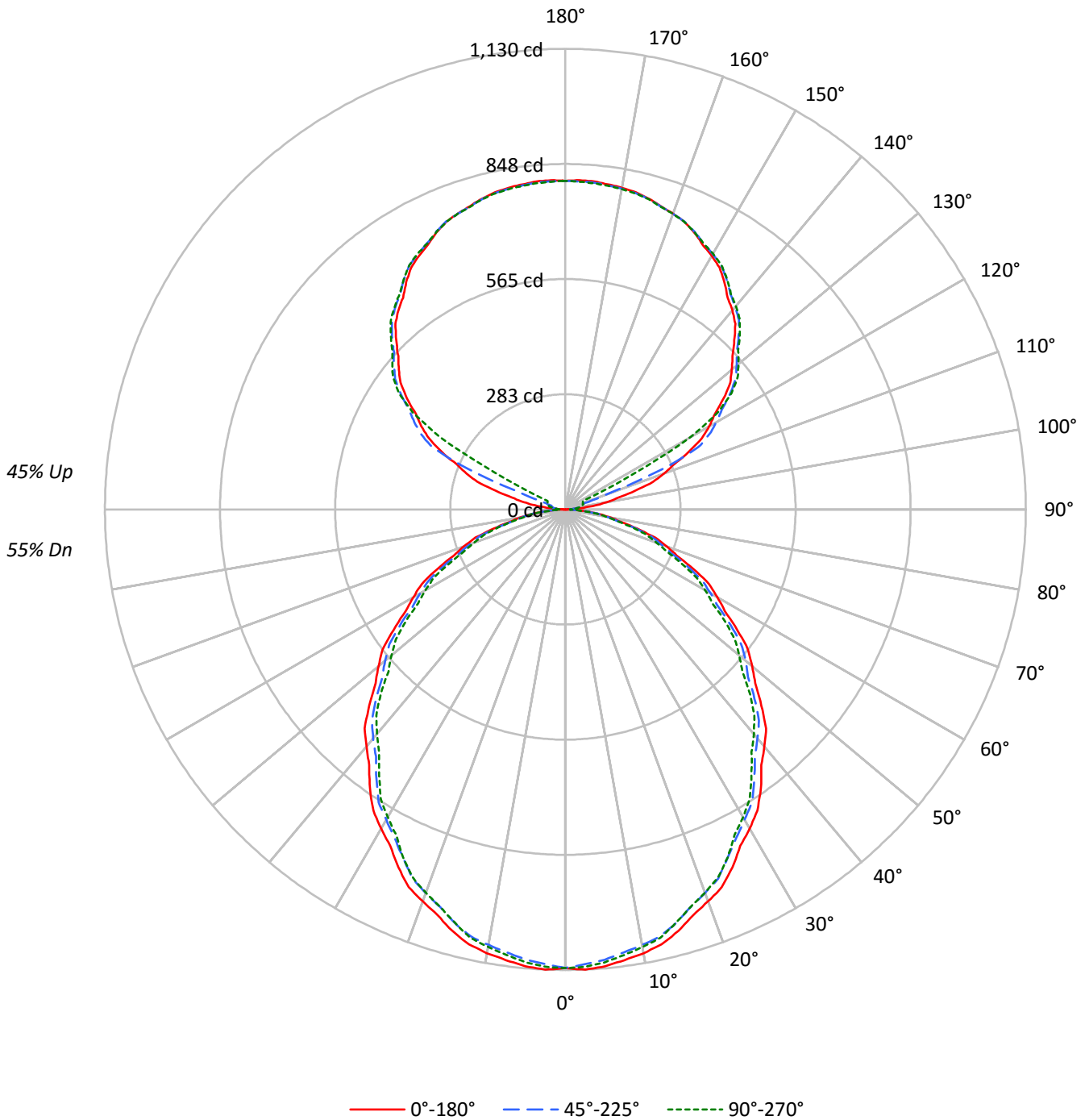
Lumens per Lamp: N/A
Luminaire Lumens: 5226.5 lumens
Efficiency: N/A
Efficacy: 96.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.3
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 54.4
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: P331399-930
CATALOG NUMBER: SA2XXDIP-C865D725U930-4F0-1E-UDD-F

Luminous Intensity Polar Plot





TEST NUMBER: P331399-930

CATALOG NUMBER: SA2XXDIP-C865D725U930-4F0-1E-UDD-F

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 | 108 | 108 | 108 | 108 | 101 | 101 | 101 | 101 | 86 | 86 | 86 | 73 | 73 | 73 | 61 | 61 | 61 | 55 | | | | |
| 1 | 99 | 94 | 91 | 87 | 92 | 88 | 84 | 81 | 75 | 73 | 71 | 64 | 62 | 61 | 54 | 52 | 51 | 46 | | | | |
| 2 | 90 | 83 | 76 | 71 | 83 | 77 | 71 | 67 | 66 | 62 | 59 | 56 | 53 | 51 | 47 | 45 | 43 | 39 | | | | |
| 3 | 82 | 73 | 65 | 59 | 76 | 68 | 61 | 56 | 58 | 53 | 49 | 50 | 46 | 43 | 42 | 39 | 37 | 33 | | | | |
| 4 | 75 | 64 | 56 | 50 | 69 | 60 | 53 | 47 | 52 | 46 | 42 | 44 | 40 | 37 | 37 | 34 | 32 | 28 | | | | |
| 5 | 69 | 57 | 49 | 43 | 64 | 54 | 46 | 41 | 46 | 41 | 36 | 40 | 35 | 32 | 34 | 30 | 28 | 24 | | | | |
| 6 | 64 | 51 | 43 | 37 | 59 | 48 | 41 | 35 | 42 | 36 | 32 | 36 | 31 | 28 | 31 | 27 | 24 | 21 | | | | |
| 7 | 59 | 46 | 38 | 33 | 54 | 44 | 36 | 31 | 38 | 32 | 28 | 33 | 28 | 25 | 28 | 24 | 22 | 19 | | | | |
| 8 | 55 | 42 | 34 | 29 | 51 | 40 | 33 | 28 | 35 | 29 | 25 | 30 | 25 | 22 | 26 | 22 | 19 | 17 | | | | |
| 9 | 51 | 39 | 31 | 26 | 47 | 36 | 29 | 25 | 32 | 26 | 22 | 28 | 23 | 20 | 24 | 20 | 17 | 15 | | | | |
| 10 | 48 | 35 | 28 | 23 | 44 | 33 | 27 | 22 | 29 | 24 | 20 | 26 | 21 | 18 | 22 | 18 | 16 | 14 | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 18166 | 18166 | 18166 |
| 5° | 18235 | 17973 | 18078 |
| 10° | 18126 | 17790 | 17879 |
| 15° | 17904 | 17560 | 17541 |
| 20° | 17584 | 17213 | 17194 |
| 25° | 17268 | 16787 | 16787 |
| 30° | 16861 | 16397 | 16257 |
| 35° | 16484 | 15928 | 15693 |
| 40° | 16008 | 15460 | 15163 |
| 45° | 15536 | 14995 | 14625 |
| 50° | 15028 | 14511 | 13996 |
| 55° | 14494 | 13948 | 13430 |
| 60° | 13905 | 13275 | 12788 |
| 65° | 13268 | 12607 | 12027 |
| 70° | 12463 | 11797 | 11235 |
| 75° | 11335 | 10861 | 10593 |
| 80° | 10060 | 9754 | 9252 |
| 85° | 8225 | 7818 | 7003 |



TEST NUMBER: P331399-930

CATALOG NUMBER: SA2XXDIP-C865D725U930-4F0-1E-UDD-F

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 105.8 | 2.0 |
| 10°-20° | 297.7 | 5.7 |
| 20°-30° | 437.6 | 8.4 |
| 30°-40° | 508.3 | 9.7 |
| 40°-50° | 507.7 | 9.7 |
| 50°-60° | 442.8 | 8.5 |
| 60°-70° | 327.4 | 6.3 |
| 70°-80° | 185.4 | 3.5 |
| 80°-90° | 51.8 | 1.0 |
| 90°-100° | 26.9 | 0.5 |
| 100°-110° | 98.6 | 1.9 |
| 110°-120° | 263.5 | 5.0 |
| 120°-130° | 435.0 | 8.3 |
| 130°-140° | 462.7 | 8.9 |
| 140°-150° | 430.0 | 8.2 |
| 150°-160° | 345.7 | 6.6 |
| 160°-170° | 222.8 | 4.3 |
| 170°-180° | 76.7 | 1.5 |
| 0°-30° | 841.1 | 16.1 |
| 0°-40° | 1349.3 | 25.8 |
| 0°-60° | 2299.8 | 44.0 |
| 0°-90° | 2864.5 | 54.8 |
| 90°-120° | 389.0 | 7.4 |
| 90°-150° | 1716.8 | 32.8 |
| 90°-180° | 2362.0 | 45.2 |
| 0°-180° | 5226.5 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 1125 | 1125 | 1125 | 1125 | 1125 | |
| 5° | 1125 | 1120 | 1109 | 1117 | 1115 | 107 |
| 15° | 1071 | 1064 | 1050 | 1054 | 1049 | 301 |
| 25° | 969 | 960 | 942 | 944 | 942 | 446 |
| 35° | 836 | 825 | 808 | 802 | 796 | 522 |
| 45° | 680 | 672 | 657 | 645 | 640 | 525 |
| 55° | 515 | 508 | 496 | 483 | 477 | 460 |
| 65° | 347 | 341 | 330 | 320 | 315 | 343 |
| 75° | 182 | 179 | 174 | 168 | 170 | 194 |
| 85° | 44 | 43 | 42 | 39 | 38 | 51 |
| 90° | 1 | 7 | 12 | 14 | 16 | 4 |
| 95° | 38 | 20 | 23 | 26 | 25 | 46 |
| 105° | 177 | 185 | 36 | 42 | 44 | 189 |
| 115° | 335 | 346 | 360 | 102 | 48 | 330 |
| 125° | 474 | 482 | 493 | 497 | 499 | 423 |
| 135° | 587 | 596 | 601 | 607 | 606 | 453 |
| 145° | 681 | 681 | 690 | 694 | 691 | 426 |
| 155° | 749 | 745 | 751 | 754 | 750 | 345 |
| 165° | 790 | 786 | 788 | 792 | 788 | 223 |
| 175° | 808 | 804 | 805 | 808 | 803 | 77 |
| 180° | 806 | 806 | 806 | 806 | 806 | |



TEST NUMBER: P331399-930

CATALOG NUMBER: SA2XXDIP-C865D725U930-4F0-1E-UDD-F

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1125.1 | 1125.1 | 1125.1 | 1125.1 | 1125.1 | 1125.1 | 1125.1 | 1125.1 | 1125.1 | 1125.1 | 1125.1 |
| 2.5° | 1130.3 | 1129.4 | 1128.4 | 1127.5 | 1126.5 | 1124.9 | 1122.8 | 1120.7 | 1118.6 | 1116.5 | 1118.4 |
| 5° | 1125.1 | 1124.1 | 1123.2 | 1122.3 | 1121.3 | 1119.5 | 1116.9 | 1114.2 | 1111.6 | 1108.9 | 1110.8 |
| 7.5° | 1115.2 | 1113.7 | 1112.2 | 1110.7 | 1109.2 | 1107.1 | 1104.4 | 1101.7 | 1099.0 | 1096.3 | 1098.3 |
| 10° | 1105.6 | 1104.0 | 1102.3 | 1100.6 | 1098.9 | 1096.7 | 1093.7 | 1090.9 | 1088.0 | 1085.1 | 1087.0 |
| 12.5° | 1092.7 | 1091.2 | 1089.7 | 1088.2 | 1086.7 | 1084.5 | 1081.7 | 1078.7 | 1075.9 | 1073.0 | 1074.3 |
| 15° | 1071.1 | 1069.6 | 1068.1 | 1066.7 | 1065.3 | 1063.0 | 1059.9 | 1056.7 | 1053.6 | 1050.5 | 1051.4 |
| 17.5° | 1043.3 | 1041.9 | 1040.5 | 1039.0 | 1037.5 | 1035.3 | 1032.1 | 1028.9 | 1025.7 | 1022.5 | 1023.7 |
| 20° | 1023.4 | 1022.0 | 1020.6 | 1019.1 | 1017.7 | 1015.3 | 1011.9 | 1008.5 | 1005.2 | 1001.8 | 1002.5 |
| 22.5° | 1003.6 | 1001.5 | 999.5 | 997.4 | 995.5 | 992.9 | 989.7 | 986.5 | 983.3 | 980.2 | 980.3 |
| 25° | 969.3 | 967.4 | 965.5 | 963.6 | 961.6 | 958.6 | 954.6 | 950.5 | 946.4 | 942.3 | 942.8 |
| 27.5° | 930.4 | 928.7 | 926.9 | 925.2 | 923.5 | 921.0 | 917.8 | 914.5 | 911.3 | 908.1 | 907.4 |
| 30° | 904.4 | 902.5 | 900.6 | 898.7 | 896.7 | 894.0 | 890.4 | 886.8 | 883.1 | 879.5 | 878.8 |
| 32.5° | 876.8 | 875.2 | 873.7 | 872.1 | 870.6 | 867.9 | 864.1 | 860.3 | 856.6 | 852.7 | 851.4 |
| 35° | 836.3 | 833.9 | 831.4 | 829.1 | 826.6 | 823.5 | 819.7 | 815.9 | 812.0 | 808.1 | 806.7 |
| 37.5° | 790.6 | 788.5 | 786.4 | 784.2 | 782.2 | 779.2 | 775.3 | 771.5 | 767.6 | 763.8 | 762.0 |
| 40° | 759.5 | 757.6 | 755.6 | 753.7 | 751.8 | 748.9 | 745.0 | 741.2 | 737.4 | 733.5 | 731.3 |
| 42.5° | 729.2 | 727.2 | 725.3 | 723.4 | 721.5 | 718.6 | 714.8 | 710.9 | 707.0 | 703.2 | 700.8 |
| 45° | 680.4 | 678.8 | 677.1 | 675.5 | 673.8 | 671.1 | 667.5 | 663.9 | 660.3 | 656.7 | 654.0 |
| 47.5° | 632.0 | 630.5 | 628.8 | 627.3 | 625.7 | 623.0 | 619.2 | 615.5 | 611.7 | 608.0 | 605.2 |
| 50° | 598.3 | 597.0 | 595.9 | 594.7 | 593.5 | 591.2 | 587.8 | 584.4 | 581.1 | 577.7 | 574.4 |
| 52.5° | 565.4 | 563.8 | 562.2 | 560.6 | 559.1 | 556.7 | 553.5 | 550.3 | 547.1 | 544.0 | 541.2 |
| 55° | 514.9 | 513.6 | 512.1 | 510.6 | 509.2 | 507.0 | 504.2 | 501.2 | 498.4 | 495.5 | 492.6 |
| 57.5° | 464.3 | 463.2 | 462.0 | 460.9 | 459.7 | 457.5 | 454.4 | 451.2 | 448.0 | 444.8 | 442.1 |
| 60° | 430.6 | 429.6 | 428.7 | 427.7 | 426.7 | 424.6 | 421.2 | 417.8 | 414.5 | 411.1 | 408.5 |
| 62.5° | 397.7 | 396.2 | 394.6 | 393.1 | 391.5 | 389.5 | 386.9 | 384.3 | 381.6 | 379.1 | 376.7 |
| 65° | 347.3 | 345.8 | 344.4 | 342.9 | 341.5 | 339.6 | 337.2 | 334.8 | 332.4 | 330.0 | 327.8 |
| 67.5° | 296.0 | 294.8 | 293.7 | 292.5 | 291.4 | 289.8 | 287.6 | 285.4 | 283.2 | 281.0 | 279.4 |
| 70° | 264.0 | 263.0 | 262.0 | 261.1 | 260.2 | 258.5 | 256.4 | 254.2 | 252.1 | 249.9 | 248.3 |
| 72.5° | 231.1 | 230.2 | 229.2 | 228.2 | 227.2 | 226.1 | 224.7 | 223.3 | 221.8 | 220.5 | 218.8 |
| 75° | 181.7 | 181.2 | 180.8 | 180.3 | 179.9 | 179.0 | 177.8 | 176.6 | 175.4 | 174.1 | 172.8 |
| 77.5° | 137.6 | 136.8 | 136.0 | 135.2 | 134.4 | 133.7 | 133.2 | 132.7 | 132.2 | 131.8 | 131.0 |
| 80° | 108.2 | 107.9 | 107.7 | 107.5 | 107.2 | 106.9 | 106.4 | 105.9 | 105.4 | 104.9 | 104.2 |
| 82.5° | 80.5 | 80.5 | 80.4 | 80.3 | 80.3 | 80.1 | 79.8 | 79.6 | 79.2 | 79.0 | 78.0 |
| 85° | 44.4 | 44.1 | 43.9 | 43.6 | 43.4 | 43.1 | 42.9 | 42.6 | 42.4 | 42.2 | 41.5 |
| 87.5° | 15.7 | 15.6 | 15.5 | 15.4 | 15.3 | 15.2 | 15.0 | 14.8 | 14.6 | 14.4 | 14.0 |
| 90° | 0.6 | 2.0 | 3.4 | 4.9 | 6.3 | 7.5 | 8.6 | 9.6 | 10.6 | 11.7 | 12.3 |
| 92.5° | 11.7 | 11.7 | 11.5 | 11.4 | 11.3 | 11.5 | 12.0 | 12.5 | 13.0 | 13.5 | 13.9 |
| 95° | 37.9 | 33.7 | 29.4 | 25.1 | 20.8 | 19.1 | 20.1 | 21.0 | 21.9 | 22.7 | 23.4 |
| 97.5° | 75.3 | 63.2 | 51.1 | 39.1 | 27.0 | 22.0 | 24.1 | 26.3 | 28.4 | 30.4 | 31.0 |
| 100° | 103.2 | 85.4 | 67.8 | 50.0 | 32.2 | 24.5 | 26.7 | 28.9 | 31.1 | 33.3 | 34.2 |
| 102.5° | 134.0 | 130.3 | 126.5 | 122.8 | 119.0 | 107.9 | 89.4 | 71.0 | 52.6 | 34.2 | 35.5 |
| 105° | 177.3 | 181.2 | 185.1 | 189.0 | 192.8 | 177.1 | 141.7 | 106.3 | 70.9 | 35.5 | 37.0 |
| 107.5° | 226.7 | 229.8 | 232.9 | 236.0 | 239.2 | 219.6 | 177.1 | 134.7 | 92.2 | 49.8 | 48.3 |
| 110° | 258.4 | 261.1 | 263.8 | 266.5 | 269.2 | 251.8 | 214.4 | 177.0 | 139.5 | 102.1 | 89.1 |



TEST NUMBER: P331399-930
 CATALOG NUMBER: SA2XXDIP-C865D725U930-4F0-1E-UDD-F

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 288.2 | 290.7 | 293.0 | 295.5 | 297.8 | 294.4 | 285.2 | 275.9 | 266.7 | 257.4 | 210.2 |
| 115° | 335.3 | 337.5 | 339.7 | 341.9 | 344.1 | 346.9 | 350.1 | 353.4 | 356.6 | 359.9 | 299.9 |
| 117.5° | 377.5 | 379.9 | 382.4 | 384.8 | 387.3 | 389.6 | 391.9 | 394.1 | 396.3 | 398.6 | 384.1 |
| 120° | 408.2 | 410.2 | 412.1 | 414.1 | 416.0 | 418.2 | 420.5 | 422.8 | 425.2 | 427.5 | 429.0 |
| 122.5° | 434.4 | 436.4 | 438.5 | 440.5 | 442.5 | 444.8 | 447.4 | 450.0 | 452.5 | 455.0 | 455.9 |
| 125° | 474.2 | 475.8 | 477.5 | 479.2 | 480.9 | 483.0 | 485.4 | 487.9 | 490.3 | 492.8 | 493.7 |
| 127.5° | 510.2 | 512.1 | 514.0 | 515.8 | 517.6 | 519.5 | 521.4 | 523.2 | 525.1 | 526.8 | 528.2 |
| 130° | 533.0 | 535.2 | 537.2 | 539.2 | 541.4 | 543.1 | 544.5 | 545.9 | 547.4 | 548.8 | 550.2 |
| 132.5° | 556.4 | 558.2 | 559.9 | 561.7 | 563.5 | 565.0 | 566.5 | 567.9 | 569.3 | 570.7 | 571.9 |
| 135° | 586.7 | 588.8 | 590.8 | 593.0 | 595.0 | 596.6 | 597.8 | 598.9 | 600.1 | 601.3 | 602.6 |
| 137.5° | 617.4 | 618.8 | 620.3 | 621.7 | 623.2 | 624.6 | 625.9 | 627.2 | 628.5 | 629.9 | 631.1 |
| 140° | 637.5 | 638.5 | 639.5 | 640.6 | 641.6 | 642.9 | 644.2 | 645.7 | 647.1 | 648.6 | 649.7 |
| 142.5° | 654.3 | 655.2 | 656.2 | 657.0 | 657.9 | 659.3 | 660.9 | 662.5 | 664.1 | 665.8 | 666.8 |
| 145° | 680.6 | 680.4 | 680.4 | 680.2 | 680.1 | 681.1 | 683.3 | 685.5 | 687.7 | 689.9 | 690.9 |
| 147.5° | 703.6 | 703.1 | 702.6 | 702.1 | 701.6 | 702.5 | 704.7 | 706.8 | 709.0 | 711.2 | 711.8 |
| 150° | 718.5 | 717.6 | 716.7 | 715.8 | 714.9 | 715.5 | 717.5 | 719.6 | 721.7 | 723.7 | 724.6 |
| 152.5° | 731.1 | 730.1 | 729.1 | 728.1 | 727.1 | 727.6 | 729.5 | 731.5 | 733.4 | 735.4 | 736.2 |
| 155° | 749.4 | 748.3 | 747.1 | 745.9 | 744.8 | 744.9 | 746.5 | 748.0 | 749.6 | 751.1 | 752.0 |
| 157.5° | 763.8 | 762.8 | 761.8 | 760.8 | 759.9 | 759.9 | 761.0 | 762.1 | 763.1 | 764.3 | 765.2 |
| 160° | 772.2 | 771.4 | 770.6 | 769.8 | 769.1 | 769.1 | 769.8 | 770.6 | 771.4 | 772.2 | 773.0 |
| 162.5° | 779.7 | 778.9 | 778.1 | 777.3 | 776.5 | 776.5 | 777.1 | 777.8 | 778.5 | 779.2 | 780.1 |
| 165° | 789.7 | 788.9 | 788.1 | 787.3 | 786.5 | 786.4 | 786.8 | 787.2 | 787.5 | 787.9 | 788.8 |
| 167.5° | 797.1 | 796.4 | 795.6 | 794.8 | 794.0 | 793.8 | 794.2 | 794.5 | 794.9 | 795.2 | 796.1 |
| 170° | 801.4 | 800.5 | 799.8 | 799.0 | 798.3 | 797.9 | 798.3 | 798.5 | 798.7 | 799.0 | 799.9 |
| 172.5° | 804.1 | 803.3 | 802.6 | 801.8 | 801.0 | 800.8 | 801.0 | 801.3 | 801.5 | 801.8 | 802.7 |
| 175° | 807.7 | 806.8 | 805.9 | 805.0 | 804.1 | 803.8 | 804.0 | 804.3 | 804.5 | 804.9 | 805.8 |
| 177.5° | 808.4 | 807.6 | 806.9 | 806.2 | 805.4 | 805.1 | 805.2 | 805.4 | 805.4 | 805.5 | 806.2 |
| 180° | 806.0 | 806.0 | 806.0 | 806.0 | 806.0 | 806.0 | 806.0 | 806.0 | 806.0 | 806.0 | 806.0 |



TEST NUMBER: P331399-930

CATALOG NUMBER: SA2XXDIP-C865D725U930-4F0-1E-UDD-F

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1125.1 | 1125.1 | 1125.1 | 1125.1 | 1125.1 | 1125.1 | 1125.1 | 1125.1 |
| 2.5° | 1120.3 | 1122.3 | 1124.1 | 1124.9 | 1124.5 | 1124.1 | 1123.8 | 1123.4 |
| 5° | 1112.7 | 1114.7 | 1116.6 | 1117.3 | 1116.9 | 1116.4 | 1115.9 | 1115.4 |
| 7.5° | 1100.2 | 1102.1 | 1104.1 | 1104.7 | 1104.2 | 1103.7 | 1103.2 | 1102.6 |
| 10° | 1088.9 | 1090.9 | 1092.8 | 1093.4 | 1092.7 | 1091.9 | 1091.2 | 1090.5 |
| 12.5° | 1075.7 | 1077.0 | 1078.4 | 1078.8 | 1078.2 | 1077.7 | 1077.2 | 1076.7 |
| 15° | 1052.4 | 1053.4 | 1054.3 | 1054.2 | 1053.0 | 1051.8 | 1050.6 | 1049.4 |
| 17.5° | 1024.7 | 1025.9 | 1027.0 | 1027.0 | 1025.8 | 1024.7 | 1023.5 | 1022.4 |
| 20° | 1003.2 | 1004.0 | 1004.7 | 1004.5 | 1003.6 | 1002.7 | 1001.7 | 1000.7 |
| 22.5° | 980.5 | 980.6 | 980.7 | 980.6 | 979.9 | 979.3 | 978.8 | 978.2 |
| 25° | 943.3 | 943.7 | 944.2 | 944.2 | 943.7 | 943.3 | 942.8 | 942.3 |
| 27.5° | 906.7 | 906.0 | 905.2 | 904.3 | 903.1 | 902.0 | 900.8 | 899.7 |
| 30° | 878.1 | 877.4 | 876.7 | 875.8 | 874.9 | 873.9 | 872.9 | 872.0 |
| 32.5° | 850.1 | 848.8 | 847.5 | 846.4 | 845.5 | 844.5 | 843.5 | 842.5 |
| 35° | 805.3 | 803.8 | 802.4 | 801.0 | 799.9 | 798.7 | 797.4 | 796.2 |
| 37.5° | 760.3 | 758.5 | 756.7 | 755.2 | 754.1 | 752.9 | 751.8 | 750.6 |
| 40° | 729.2 | 727.0 | 724.9 | 723.3 | 722.4 | 721.4 | 720.4 | 719.4 |
| 42.5° | 698.5 | 696.1 | 693.8 | 691.9 | 690.6 | 689.3 | 687.9 | 686.6 |
| 45° | 651.4 | 648.7 | 646.1 | 644.3 | 643.4 | 642.4 | 641.4 | 640.5 |
| 47.5° | 602.4 | 599.7 | 596.9 | 594.8 | 593.4 | 592.0 | 590.6 | 589.2 |
| 50° | 571.0 | 567.6 | 564.3 | 562.0 | 560.8 | 559.5 | 558.4 | 557.2 |
| 52.5° | 538.3 | 535.6 | 532.8 | 530.6 | 529.0 | 527.4 | 525.9 | 524.2 |
| 55° | 489.8 | 486.8 | 484.0 | 481.9 | 480.7 | 479.5 | 478.3 | 477.1 |
| 57.5° | 439.2 | 436.3 | 433.5 | 431.6 | 430.7 | 429.8 | 428.9 | 428.0 |
| 60° | 405.9 | 403.2 | 400.6 | 398.8 | 398.1 | 397.4 | 396.6 | 396.0 |
| 62.5° | 374.1 | 371.7 | 369.2 | 367.6 | 366.6 | 365.7 | 364.8 | 363.9 |
| 65° | 325.6 | 323.5 | 321.3 | 319.6 | 318.5 | 317.2 | 316.0 | 314.8 |
| 67.5° | 277.7 | 276.0 | 274.3 | 273.0 | 272.1 | 271.1 | 270.1 | 269.1 |
| 70° | 246.5 | 244.8 | 243.2 | 241.8 | 240.9 | 239.9 | 239.0 | 238.0 |
| 72.5° | 217.1 | 215.4 | 213.8 | 212.5 | 211.7 | 211.0 | 210.2 | 209.5 |
| 75° | 171.3 | 169.8 | 168.4 | 168.0 | 168.4 | 168.9 | 169.3 | 169.8 |
| 77.5° | 130.4 | 129.6 | 128.9 | 128.2 | 127.5 | 126.9 | 126.2 | 125.5 |
| 80° | 103.5 | 102.8 | 102.1 | 101.4 | 100.9 | 100.5 | 100.0 | 99.5 |
| 82.5° | 77.1 | 76.2 | 75.3 | 74.8 | 74.7 | 74.6 | 74.5 | 74.4 |
| 85° | 40.8 | 40.0 | 39.3 | 38.8 | 38.6 | 38.3 | 38.1 | 37.8 |
| 87.5° | 13.5 | 13.1 | 12.6 | 12.4 | 12.2 | 12.1 | 12.0 | 11.8 |
| 90° | 13.0 | 13.6 | 14.3 | 14.7 | 15.0 | 15.2 | 15.5 | 15.7 |
| 92.5° | 14.2 | 14.5 | 14.8 | 15.2 | 15.2 | 15.4 | 15.6 | 15.7 |
| 95° | 24.1 | 24.7 | 25.4 | 25.6 | 25.4 | 25.4 | 25.2 | 25.1 |
| 97.5° | 31.5 | 32.0 | 32.5 | 32.9 | 33.0 | 33.2 | 33.3 | 33.5 |
| 100° | 35.3 | 36.4 | 37.4 | 38.1 | 38.3 | 38.6 | 38.8 | 39.1 |
| 102.5° | 36.9 | 38.2 | 39.5 | 40.4 | 40.8 | 41.2 | 41.5 | 41.9 |
| 105° | 38.4 | 39.9 | 41.3 | 42.2 | 42.8 | 43.3 | 43.8 | 44.4 |
| 107.5° | 46.9 | 45.4 | 44.0 | 43.5 | 44.0 | 44.6 | 45.1 | 45.6 |
| 110° | 76.1 | 63.2 | 50.2 | 44.0 | 44.5 | 45.0 | 45.6 | 46.1 |



TEST NUMBER: P331399-930

CATALOG NUMBER: SA2XXDIP-C865D725U930-4F0-1E-UDD-F

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 162.9 | 115.6 | 68.3 | 44.8 | 45.3 | 45.7 | 46.1 | 46.6 |
| 115° | 239.9 | 179.9 | 119.8 | 85.1 | 75.8 | 66.4 | 57.2 | 47.9 |
| 117.5° | 369.6 | 355.0 | 340.5 | 317.9 | 287.2 | 256.6 | 225.9 | 195.3 |
| 120° | 430.6 | 432.2 | 433.7 | 425.7 | 408.2 | 390.8 | 373.2 | 355.8 |
| 122.5° | 456.9 | 457.8 | 458.8 | 457.5 | 454.1 | 450.7 | 447.4 | 443.9 |
| 125° | 494.6 | 495.5 | 496.4 | 497.1 | 497.5 | 497.9 | 498.2 | 498.6 |
| 127.5° | 529.5 | 530.8 | 532.1 | 532.9 | 533.0 | 533.0 | 533.1 | 533.2 |
| 130° | 551.6 | 553.1 | 554.5 | 555.1 | 555.1 | 554.9 | 554.7 | 554.6 |
| 132.5° | 573.2 | 574.4 | 575.6 | 576.2 | 576.0 | 575.9 | 575.8 | 575.6 |
| 135° | 603.9 | 605.2 | 606.5 | 607.0 | 606.7 | 606.5 | 606.2 | 605.9 |
| 137.5° | 632.4 | 633.7 | 635.0 | 635.4 | 635.0 | 634.5 | 634.1 | 633.6 |
| 140° | 650.9 | 652.0 | 653.2 | 653.5 | 652.8 | 652.2 | 651.5 | 650.9 |
| 142.5° | 667.9 | 669.0 | 670.0 | 670.3 | 669.6 | 669.0 | 668.3 | 667.6 |
| 145° | 691.8 | 692.7 | 693.6 | 693.7 | 693.1 | 692.4 | 691.8 | 691.1 |
| 147.5° | 712.5 | 713.2 | 713.9 | 714.0 | 713.4 | 712.8 | 712.3 | 711.8 |
| 150° | 725.3 | 726.1 | 726.8 | 726.9 | 726.3 | 725.6 | 725.0 | 724.3 |
| 152.5° | 736.9 | 737.8 | 738.6 | 738.5 | 737.7 | 736.8 | 736.0 | 735.1 |
| 155° | 752.8 | 753.5 | 754.3 | 754.2 | 753.1 | 752.1 | 751.1 | 750.0 |
| 157.5° | 766.0 | 766.9 | 767.8 | 767.7 | 766.7 | 765.6 | 764.7 | 763.7 |
| 160° | 773.7 | 774.5 | 775.3 | 775.2 | 774.3 | 773.4 | 772.5 | 771.6 |
| 162.5° | 780.9 | 781.8 | 782.7 | 782.6 | 781.5 | 780.3 | 779.3 | 778.1 |
| 165° | 789.7 | 790.7 | 791.6 | 791.6 | 790.7 | 789.7 | 788.8 | 787.9 |
| 167.5° | 797.1 | 798.0 | 798.9 | 798.7 | 797.6 | 796.5 | 795.2 | 794.1 |
| 170° | 800.8 | 801.7 | 802.7 | 802.5 | 801.4 | 800.1 | 799.0 | 797.9 |
| 172.5° | 803.6 | 804.5 | 805.4 | 805.3 | 804.1 | 803.0 | 801.8 | 800.6 |
| 175° | 806.7 | 807.6 | 808.5 | 808.3 | 807.0 | 805.7 | 804.4 | 803.1 |
| 177.5° | 807.0 | 807.7 | 808.5 | 808.4 | 807.4 | 806.5 | 805.5 | 804.6 |
| 180° | 806.0 | 806.0 | 806.0 | 806.0 | 806.0 | 806.0 | 806.0 | 806.0 |

(END OF REPORT)