

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: P331726-840

Luminaire Tested: **SA2XXRDIP-C865D925U840-4F0-1E-UDD-F**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P331726-840
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: SA2XXRDIP-C865D925U840-4F0-1E-UDD-F
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 865 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER, REGRESSED
HOUSING
UPLIGHT 925 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

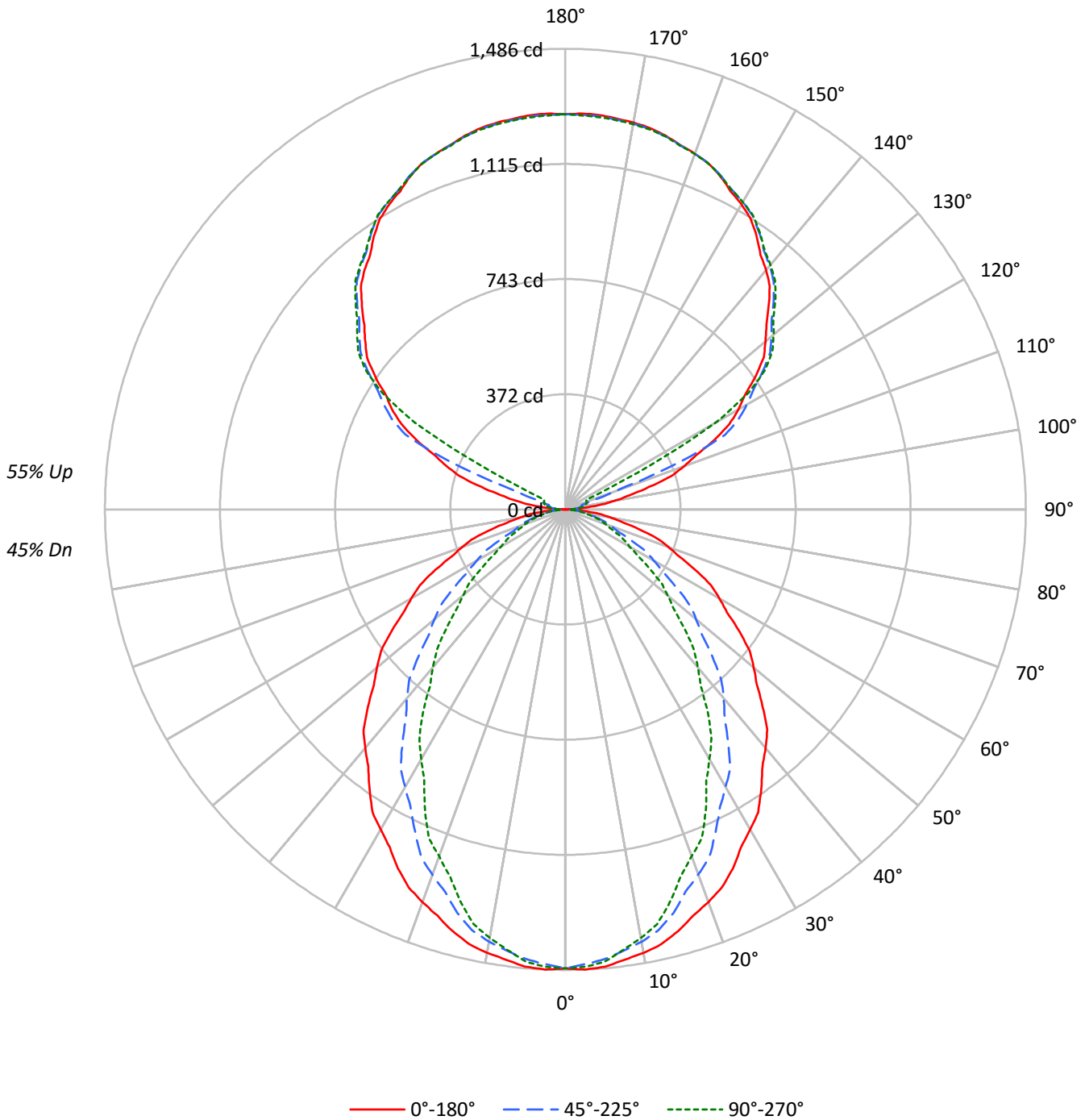
Lumens per Lamp: N/A
Luminaire Lumens: 6783.9 lumens
Efficiency: N/A
Efficacy: 112.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 0.99 / 1.16
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 60.5
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: P331726-840
CATALOG NUMBER: SA2XXRDIP-C865D925U840-4F0-1E-UDD-F

Luminous Intensity Polar Plot





TEST NUMBER: P331726-840

CATALOG NUMBER: SA2XXRDIP-C865D925U840-4F0-1E-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 | 106 | 106 | 106 | 106 | 97 | 97 | 97 | 97 | 81 | 81 | 81 | 65 | 65 | 65 | 51 | 51 | 51 | 45 | | | | 45 |
| 1 | 97 | 93 | 89 | 86 | 89 | 85 | 82 | 79 | 71 | 69 | 67 | 58 | 57 | 55 | 46 | 45 | 44 | 39 | | | | 39 |
| 2 | 89 | 82 | 76 | 71 | 81 | 75 | 70 | 66 | 63 | 59 | 56 | 52 | 49 | 47 | 41 | 39 | 38 | 33 | | | | 33 |
| 3 | 81 | 72 | 65 | 60 | 74 | 66 | 60 | 55 | 56 | 51 | 48 | 46 | 43 | 40 | 37 | 35 | 33 | 29 | | | | 29 |
| 4 | 74 | 64 | 56 | 51 | 68 | 59 | 53 | 47 | 50 | 45 | 41 | 41 | 38 | 35 | 33 | 31 | 29 | 25 | | | | 25 |
| 5 | 68 | 57 | 49 | 44 | 63 | 53 | 46 | 41 | 45 | 40 | 36 | 37 | 33 | 30 | 30 | 27 | 25 | 22 | | | | 22 |
| 6 | 63 | 52 | 44 | 38 | 58 | 48 | 41 | 36 | 41 | 35 | 31 | 34 | 30 | 27 | 27 | 25 | 22 | 19 | | | | 19 |
| 7 | 59 | 47 | 39 | 34 | 54 | 43 | 36 | 32 | 37 | 32 | 28 | 31 | 27 | 24 | 25 | 22 | 20 | 17 | | | | 17 |
| 8 | 54 | 42 | 35 | 30 | 50 | 39 | 33 | 28 | 34 | 28 | 25 | 28 | 24 | 21 | 23 | 20 | 18 | 16 | | | | 16 |
| 9 | 51 | 39 | 31 | 27 | 47 | 36 | 30 | 25 | 31 | 26 | 22 | 26 | 22 | 19 | 22 | 19 | 16 | 14 | | | | 14 |
| 10 | 47 | 36 | 29 | 24 | 44 | 33 | 27 | 23 | 29 | 24 | 20 | 24 | 20 | 18 | 20 | 17 | 15 | 13 | | | | 13 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 23909 | 23909 | 23909 |
| 5° | 24000 | 23608 | 23738 |
| 10° | 23815 | 23222 | 23023 |
| 15° | 23542 | 22534 | 21884 |
| 20° | 23163 | 21551 | 20469 |
| 25° | 22775 | 20436 | 19099 |
| 30° | 22236 | 19287 | 17339 |
| 35° | 21711 | 18039 | 15794 |
| 40° | 21182 | 16750 | 14010 |
| 45° | 20562 | 15299 | 12392 |
| 50° | 19926 | 13835 | 10803 |
| 55° | 19277 | 12262 | 9278 |
| 60° | 18519 | 10601 | 7702 |
| 65° | 17662 | 8909 | 7014 |
| 70° | 16636 | 7336 | 6449 |
| 75° | 15384 | 6687 | 6014 |
| 80° | 13575 | 5979 | 5486 |
| 85° | 10689 | 4705 | 4705 |



TEST NUMBER: P331726-840

CATALOG NUMBER: SA2XXRDIP-C865D925U840-4F0-1E-UDD-F

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 138.6 | 2.0 |
| 10°-20° | 380.6 | 5.6 |
| 20°-30° | 534.4 | 7.9 |
| 30°-40° | 582.7 | 8.6 |
| 40°-50° | 535.8 | 7.9 |
| 50°-60° | 420.8 | 6.2 |
| 60°-70° | 274.4 | 4.0 |
| 70°-80° | 141.5 | 2.1 |
| 80°-90° | 39.8 | 0.6 |
| 90°-100° | 42.5 | 0.6 |
| 100°-110° | 155.9 | 2.3 |
| 110°-120° | 416.8 | 6.1 |
| 120°-130° | 688.0 | 10.1 |
| 130°-140° | 731.7 | 10.8 |
| 140°-150° | 680.1 | 10.0 |
| 150°-160° | 546.8 | 8.1 |
| 160°-170° | 352.3 | 5.2 |
| 170°-180° | 121.3 | 1.8 |
| 0°-30° | 1053.6 | 15.5 |
| 0°-40° | 1636.3 | 24.1 |
| 0°-60° | 2593.0 | 38.2 |
| 0°-90° | 3048.6 | 44.9 |
| 90°-120° | 615.2 | 9.1 |
| 90°-150° | 2714.9 | 40.0 |
| 90°-180° | 3735.0 | 55.1 |
| 0°-180° | 6783.9 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 1481 | 1481 | 1481 | 1481 | 1481 | |
| 5° | 1481 | 1473 | 1457 | 1468 | 1465 | 140 |
| 15° | 1408 | 1392 | 1348 | 1323 | 1309 | 397 |
| 25° | 1278 | 1233 | 1147 | 1094 | 1072 | 588 |
| 35° | 1102 | 1030 | 915 | 834 | 801 | 689 |
| 45° | 900 | 808 | 670 | 578 | 543 | 695 |
| 55° | 685 | 578 | 436 | 358 | 330 | 612 |
| 65° | 462 | 353 | 233 | 190 | 184 | 458 |
| 75° | 247 | 155 | 107 | 98 | 96 | 261 |
| 85° | 58 | 31 | 25 | 25 | 25 | 68 |
| 90° | 1 | 11 | 18 | 23 | 25 | 5 |
| 95° | 60 | 32 | 36 | 40 | 40 | 73 |
| 105° | 280 | 292 | 56 | 66 | 70 | 300 |
| 115° | 530 | 546 | 569 | 162 | 76 | 522 |
| 125° | 750 | 762 | 779 | 786 | 789 | 668 |
| 135° | 928 | 942 | 951 | 960 | 958 | 716 |
| 145° | 1076 | 1076 | 1091 | 1097 | 1093 | 673 |
| 155° | 1185 | 1178 | 1188 | 1193 | 1186 | 546 |
| 165° | 1249 | 1244 | 1246 | 1252 | 1246 | 353 |
| 175° | 1277 | 1271 | 1273 | 1278 | 1270 | 122 |
| 180° | 1275 | 1275 | 1275 | 1275 | 1275 | |



TEST NUMBER: P331726-840

CATALOG NUMBER: SA2XXRDIP-C865D925U840-4F0-1E-UDD-F

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1480.8 | 1480.8 | 1480.8 | 1480.8 | 1480.8 | 1480.8 | 1480.8 | 1480.8 | 1480.8 | 1480.8 | 1480.8 |
| 2.5° | 1486.1 | 1484.9 | 1483.7 | 1482.5 | 1481.4 | 1479.5 | 1476.8 | 1474.2 | 1471.6 | 1468.9 | 1471.4 |
| 5° | 1480.8 | 1479.3 | 1477.7 | 1476.2 | 1474.8 | 1472.1 | 1468.2 | 1464.4 | 1460.5 | 1456.6 | 1459.3 |
| 7.5° | 1465.4 | 1463.6 | 1461.8 | 1460.0 | 1458.0 | 1454.9 | 1450.4 | 1445.8 | 1441.3 | 1436.7 | 1437.5 |
| 10° | 1452.6 | 1450.5 | 1448.4 | 1446.3 | 1444.2 | 1440.3 | 1434.3 | 1428.4 | 1422.4 | 1416.4 | 1415.5 |
| 12.5° | 1436.5 | 1433.9 | 1431.4 | 1428.9 | 1426.2 | 1421.2 | 1413.5 | 1405.9 | 1398.3 | 1390.7 | 1389.1 |
| 15° | 1408.4 | 1405.1 | 1401.8 | 1398.6 | 1395.2 | 1388.6 | 1378.5 | 1368.4 | 1358.2 | 1348.1 | 1342.4 |
| 17.5° | 1373.8 | 1368.8 | 1363.8 | 1358.8 | 1353.8 | 1344.8 | 1331.8 | 1318.8 | 1305.9 | 1292.8 | 1286.2 |
| 20° | 1348.1 | 1342.1 | 1336.2 | 1330.2 | 1324.2 | 1313.8 | 1298.9 | 1284.0 | 1269.2 | 1254.3 | 1246.8 |
| 22.5° | 1320.2 | 1313.5 | 1306.9 | 1300.2 | 1293.5 | 1281.8 | 1265.0 | 1248.2 | 1231.4 | 1214.6 | 1205.0 |
| 25° | 1278.4 | 1268.9 | 1259.3 | 1249.8 | 1240.3 | 1225.7 | 1206.0 | 1186.4 | 1166.7 | 1147.1 | 1134.9 |
| 27.5° | 1228.0 | 1217.6 | 1207.3 | 1196.9 | 1186.6 | 1170.3 | 1148.1 | 1126.0 | 1103.8 | 1081.7 | 1067.4 |
| 30° | 1192.7 | 1181.3 | 1170.0 | 1158.7 | 1147.4 | 1129.8 | 1106.0 | 1082.2 | 1058.3 | 1034.5 | 1019.4 |
| 32.5° | 1158.3 | 1145.1 | 1131.9 | 1118.6 | 1105.4 | 1086.7 | 1062.4 | 1038.0 | 1013.8 | 989.5 | 972.2 |
| 35° | 1101.5 | 1086.3 | 1071.2 | 1055.9 | 1040.8 | 1020.1 | 993.8 | 967.7 | 941.5 | 915.2 | 896.5 |
| 37.5° | 1044.7 | 1028.0 | 1011.4 | 994.6 | 978.0 | 955.6 | 927.8 | 899.8 | 871.9 | 843.9 | 823.2 |
| 40° | 1005.0 | 987.1 | 969.3 | 951.4 | 933.5 | 910.2 | 881.3 | 852.4 | 823.5 | 794.7 | 773.5 |
| 42.5° | 964.3 | 945.4 | 926.7 | 907.9 | 889.0 | 864.6 | 834.9 | 805.0 | 775.2 | 745.3 | 723.5 |
| 45° | 900.5 | 880.5 | 860.6 | 840.6 | 820.7 | 795.1 | 763.9 | 732.6 | 701.3 | 670.0 | 648.8 |
| 47.5° | 838.3 | 817.2 | 796.1 | 774.9 | 753.8 | 727.0 | 694.8 | 662.5 | 630.2 | 597.9 | 576.9 |
| 50° | 793.3 | 772.1 | 751.0 | 729.8 | 708.7 | 681.8 | 649.0 | 616.2 | 583.5 | 550.8 | 530.2 |
| 52.5° | 749.3 | 727.2 | 705.2 | 683.1 | 661.0 | 633.9 | 601.9 | 569.8 | 537.8 | 505.7 | 485.8 |
| 55° | 684.8 | 661.6 | 638.3 | 615.1 | 591.9 | 564.1 | 532.0 | 499.8 | 467.7 | 435.6 | 417.7 |
| 57.5° | 618.5 | 594.7 | 570.9 | 547.0 | 523.3 | 495.9 | 464.9 | 434.0 | 403.1 | 372.2 | 355.9 |
| 60° | 573.5 | 549.7 | 525.9 | 502.1 | 478.3 | 451.0 | 420.3 | 389.6 | 359.0 | 328.3 | 313.2 |
| 62.5° | 529.6 | 505.7 | 481.9 | 458.1 | 434.2 | 407.8 | 378.5 | 349.3 | 320.0 | 290.7 | 276.3 |
| 65° | 462.3 | 438.2 | 414.0 | 389.9 | 365.9 | 340.3 | 313.6 | 286.8 | 259.9 | 233.2 | 223.1 |
| 67.5° | 397.5 | 373.5 | 349.6 | 325.6 | 301.6 | 277.6 | 253.6 | 229.4 | 205.3 | 181.2 | 176.5 |
| 70° | 352.4 | 329.2 | 306.0 | 282.8 | 259.5 | 237.6 | 217.1 | 196.5 | 176.0 | 155.4 | 152.5 |
| 72.5° | 309.5 | 287.3 | 265.0 | 242.8 | 220.5 | 201.1 | 184.6 | 168.0 | 151.6 | 135.1 | 132.6 |
| 75° | 246.6 | 225.7 | 204.9 | 184.0 | 163.2 | 147.7 | 137.5 | 127.4 | 117.3 | 107.2 | 105.1 |
| 77.5° | 184.7 | 166.3 | 148.0 | 129.8 | 111.5 | 100.0 | 95.0 | 90.2 | 85.3 | 80.4 | 79.2 |
| 80° | 146.0 | 130.9 | 115.7 | 100.5 | 85.3 | 76.2 | 73.2 | 70.3 | 67.3 | 64.3 | 63.1 |
| 82.5° | 110.7 | 98.9 | 86.9 | 75.1 | 63.3 | 56.4 | 54.3 | 52.3 | 50.3 | 48.3 | 47.6 |
| 85° | 57.7 | 51.4 | 45.1 | 38.9 | 32.6 | 29.1 | 28.2 | 27.3 | 26.4 | 25.4 | 25.4 |
| 87.5° | 17.4 | 15.9 | 14.4 | 12.9 | 11.5 | 10.9 | 11.3 | 11.6 | 11.9 | 12.2 | 12.2 |
| 90° | 0.9 | 3.1 | 5.5 | 7.7 | 9.9 | 11.9 | 13.5 | 15.1 | 16.8 | 18.5 | 19.5 |
| 92.5° | 18.6 | 18.4 | 18.2 | 18.0 | 17.8 | 18.1 | 19.0 | 19.8 | 20.6 | 21.4 | 21.9 |
| 95° | 60.0 | 53.2 | 46.5 | 39.7 | 32.9 | 30.2 | 31.7 | 33.1 | 34.5 | 36.0 | 37.0 |
| 97.5° | 119.0 | 99.9 | 80.9 | 61.8 | 42.7 | 34.8 | 38.2 | 41.5 | 44.8 | 48.2 | 49.0 |
| 100° | 163.3 | 135.1 | 107.0 | 79.0 | 50.9 | 38.7 | 42.1 | 45.6 | 49.1 | 52.6 | 54.2 |
| 102.5° | 212.0 | 206.0 | 200.1 | 194.1 | 188.1 | 170.7 | 141.5 | 112.3 | 83.2 | 54.0 | 56.1 |
| 105° | 280.3 | 286.5 | 292.7 | 298.8 | 305.0 | 280.0 | 224.1 | 168.1 | 112.2 | 56.2 | 58.5 |
| 107.5° | 358.4 | 363.3 | 368.3 | 373.2 | 378.3 | 347.2 | 280.0 | 213.0 | 145.8 | 78.8 | 76.4 |
| 110° | 408.6 | 412.9 | 417.2 | 421.5 | 425.8 | 398.3 | 339.1 | 279.8 | 220.7 | 161.4 | 140.9 |



TEST NUMBER: P331726-840

CATALOG NUMBER: SA2XXRDIP-C865D925U840-4F0-1E-UDD-F

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 455.8 | 459.6 | 463.4 | 467.3 | 471.0 | 465.6 | 451.0 | 436.4 | 421.7 | 407.1 | 332.3 |
| 115° | 530.3 | 533.8 | 537.2 | 540.8 | 544.2 | 548.6 | 553.7 | 558.9 | 563.9 | 569.1 | 474.1 |
| 117.5° | 596.9 | 600.8 | 604.7 | 608.6 | 612.5 | 616.2 | 619.8 | 623.3 | 626.8 | 630.3 | 607.3 |
| 120° | 645.6 | 648.6 | 651.8 | 654.8 | 657.9 | 661.3 | 665.0 | 668.6 | 672.4 | 676.0 | 678.5 |
| 122.5° | 686.9 | 690.1 | 693.4 | 696.6 | 699.8 | 703.5 | 707.5 | 711.6 | 715.6 | 719.6 | 721.0 |
| 125° | 749.8 | 752.5 | 755.2 | 757.8 | 760.5 | 763.8 | 767.7 | 771.5 | 775.5 | 779.3 | 780.8 |
| 127.5° | 806.8 | 809.8 | 812.7 | 815.7 | 818.6 | 821.5 | 824.5 | 827.4 | 830.3 | 833.2 | 835.3 |
| 130° | 843.0 | 846.3 | 849.5 | 852.8 | 856.1 | 858.9 | 861.1 | 863.3 | 865.7 | 867.9 | 870.1 |
| 132.5° | 879.9 | 882.6 | 885.4 | 888.3 | 891.0 | 893.5 | 895.9 | 898.1 | 900.3 | 902.5 | 904.5 |
| 135° | 927.9 | 931.1 | 934.4 | 937.7 | 941.0 | 943.5 | 945.3 | 947.3 | 949.1 | 950.9 | 952.9 |
| 137.5° | 976.3 | 978.7 | 981.0 | 983.2 | 985.5 | 987.7 | 989.8 | 991.9 | 994.0 | 996.1 | 998.0 |
| 140° | 1008.0 | 1009.8 | 1011.4 | 1013.0 | 1014.6 | 1016.6 | 1018.9 | 1021.1 | 1023.4 | 1025.6 | 1027.4 |
| 142.5° | 1034.6 | 1036.1 | 1037.6 | 1039.1 | 1040.6 | 1042.6 | 1045.1 | 1047.7 | 1050.4 | 1052.9 | 1054.6 |
| 145° | 1076.3 | 1076.1 | 1075.9 | 1075.7 | 1075.5 | 1077.1 | 1080.7 | 1084.1 | 1087.6 | 1091.1 | 1092.5 |
| 147.5° | 1112.7 | 1111.9 | 1111.2 | 1110.3 | 1109.5 | 1110.9 | 1114.3 | 1117.8 | 1121.3 | 1124.7 | 1125.7 |
| 150° | 1136.3 | 1134.9 | 1133.4 | 1132.0 | 1130.5 | 1131.5 | 1134.8 | 1138.0 | 1141.3 | 1144.6 | 1145.8 |
| 152.5° | 1156.2 | 1154.6 | 1153.0 | 1151.4 | 1149.8 | 1150.5 | 1153.7 | 1156.8 | 1159.9 | 1163.1 | 1164.3 |
| 155° | 1185.2 | 1183.4 | 1181.4 | 1179.6 | 1177.8 | 1178.1 | 1180.5 | 1183.1 | 1185.5 | 1187.9 | 1189.1 |
| 157.5° | 1207.8 | 1206.3 | 1204.8 | 1203.2 | 1201.6 | 1201.7 | 1203.5 | 1205.2 | 1206.9 | 1208.6 | 1210.0 |
| 160° | 1221.1 | 1219.9 | 1218.7 | 1217.4 | 1216.2 | 1216.2 | 1217.4 | 1218.7 | 1219.9 | 1221.1 | 1222.3 |
| 162.5° | 1232.9 | 1231.7 | 1230.5 | 1229.2 | 1228.0 | 1227.9 | 1229.0 | 1230.0 | 1231.1 | 1232.2 | 1233.6 |
| 165° | 1248.8 | 1247.6 | 1246.4 | 1245.1 | 1243.9 | 1243.5 | 1244.2 | 1244.8 | 1245.5 | 1246.1 | 1247.5 |
| 167.5° | 1260.6 | 1259.4 | 1258.2 | 1256.9 | 1255.7 | 1255.4 | 1256.0 | 1256.5 | 1257.1 | 1257.7 | 1259.1 |
| 170° | 1267.3 | 1266.0 | 1264.8 | 1263.5 | 1262.3 | 1261.9 | 1262.3 | 1262.7 | 1263.1 | 1263.5 | 1265.0 |
| 172.5° | 1271.6 | 1270.4 | 1269.2 | 1268.0 | 1266.8 | 1266.4 | 1266.8 | 1267.2 | 1267.6 | 1268.0 | 1269.4 |
| 175° | 1277.4 | 1276.0 | 1274.6 | 1273.0 | 1271.6 | 1271.1 | 1271.5 | 1271.9 | 1272.3 | 1272.7 | 1274.2 |
| 177.5° | 1278.3 | 1277.2 | 1276.1 | 1274.9 | 1273.7 | 1273.2 | 1273.4 | 1273.5 | 1273.7 | 1273.8 | 1275.1 |
| 180° | 1274.7 | 1274.7 | 1274.7 | 1274.7 | 1274.7 | 1274.7 | 1274.7 | 1274.7 | 1274.7 | 1274.7 | 1274.7 |



TEST NUMBER: P331726-840

CATALOG NUMBER: SA2XXRDIP-C865D925U840-4F0-1E-UDD-F

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1480.8 | 1480.8 | 1480.8 | 1480.8 | 1480.8 | 1480.8 | 1480.8 | 1480.8 |
| 2.5° | 1473.7 | 1476.1 | 1478.4 | 1479.5 | 1478.9 | 1478.4 | 1478.0 | 1477.5 |
| 5° | 1462.0 | 1464.6 | 1467.3 | 1468.2 | 1467.3 | 1466.4 | 1465.5 | 1464.6 |
| 7.5° | 1438.4 | 1439.1 | 1439.9 | 1439.5 | 1437.9 | 1436.4 | 1434.8 | 1433.3 |
| 10° | 1414.6 | 1413.7 | 1412.8 | 1411.5 | 1409.7 | 1408.0 | 1406.1 | 1404.3 |
| 12.5° | 1387.5 | 1385.8 | 1384.2 | 1382.0 | 1379.0 | 1376.0 | 1373.0 | 1370.1 |
| 15° | 1336.8 | 1331.1 | 1325.4 | 1321.1 | 1318.2 | 1315.1 | 1312.2 | 1309.2 |
| 17.5° | 1279.4 | 1272.6 | 1266.0 | 1260.0 | 1254.9 | 1249.8 | 1244.7 | 1239.5 |
| 20° | 1239.4 | 1231.9 | 1224.5 | 1217.5 | 1210.9 | 1204.4 | 1197.8 | 1191.3 |
| 22.5° | 1195.5 | 1185.9 | 1176.3 | 1169.0 | 1164.2 | 1159.2 | 1154.4 | 1149.5 |
| 25° | 1122.7 | 1110.4 | 1098.2 | 1089.8 | 1085.4 | 1081.0 | 1076.5 | 1072.1 |
| 27.5° | 1053.2 | 1038.9 | 1024.7 | 1014.1 | 1007.0 | 999.9 | 992.8 | 985.7 |
| 30° | 1004.1 | 989.0 | 973.7 | 962.1 | 954.1 | 946.0 | 938.1 | 930.0 |
| 32.5° | 954.8 | 937.5 | 920.2 | 907.7 | 900.2 | 892.6 | 885.0 | 877.5 |
| 35° | 877.7 | 859.0 | 840.2 | 827.6 | 821.0 | 814.5 | 807.9 | 801.3 |
| 37.5° | 802.6 | 781.9 | 761.3 | 747.2 | 739.7 | 732.2 | 724.7 | 717.2 |
| 40° | 752.3 | 731.2 | 710.0 | 695.6 | 687.9 | 680.1 | 672.4 | 664.7 |
| 42.5° | 701.7 | 679.7 | 657.9 | 643.2 | 635.7 | 628.2 | 620.7 | 613.2 |
| 45° | 627.7 | 606.6 | 585.4 | 571.3 | 564.1 | 557.0 | 549.9 | 542.7 |
| 47.5° | 555.8 | 534.8 | 513.8 | 500.1 | 493.6 | 487.1 | 480.6 | 474.1 |
| 50° | 509.7 | 489.1 | 468.6 | 455.1 | 448.9 | 442.6 | 436.4 | 430.1 |
| 52.5° | 466.1 | 446.3 | 426.4 | 413.6 | 407.8 | 402.0 | 396.3 | 390.5 |
| 55° | 399.8 | 381.9 | 364.1 | 352.2 | 346.6 | 340.9 | 335.3 | 329.6 |
| 57.5° | 339.5 | 323.2 | 306.8 | 296.2 | 291.4 | 286.6 | 281.9 | 277.1 |
| 60° | 297.9 | 282.8 | 267.5 | 257.6 | 252.8 | 248.0 | 243.3 | 238.5 |
| 62.5° | 261.9 | 247.4 | 232.9 | 224.2 | 221.4 | 218.5 | 215.6 | 212.8 |
| 65° | 212.9 | 202.8 | 192.7 | 187.1 | 186.2 | 185.4 | 184.5 | 183.6 |
| 67.5° | 171.9 | 167.2 | 162.6 | 159.8 | 158.9 | 157.8 | 156.9 | 156.0 |
| 70° | 149.5 | 146.5 | 143.5 | 141.5 | 140.3 | 139.1 | 137.8 | 136.6 |
| 72.5° | 130.1 | 127.5 | 125.0 | 123.5 | 122.7 | 122.0 | 121.3 | 120.6 |
| 75° | 103.0 | 101.0 | 98.9 | 97.7 | 97.4 | 97.0 | 96.7 | 96.4 |
| 77.5° | 78.1 | 76.9 | 75.6 | 74.8 | 74.3 | 73.8 | 73.4 | 72.9 |
| 80° | 61.9 | 60.8 | 59.6 | 59.0 | 59.0 | 59.0 | 59.0 | 59.0 |
| 82.5° | 46.9 | 46.0 | 45.3 | 45.0 | 45.0 | 45.0 | 45.0 | 45.0 |
| 85° | 25.4 | 25.4 | 25.4 | 25.4 | 25.4 | 25.4 | 25.4 | 25.4 |
| 87.5° | 12.2 | 12.1 | 12.1 | 12.1 | 12.2 | 12.3 | 12.4 | 12.5 |
| 90° | 20.5 | 21.5 | 22.5 | 23.2 | 23.6 | 24.0 | 24.5 | 24.9 |
| 92.5° | 22.4 | 23.0 | 23.5 | 23.9 | 24.1 | 24.4 | 24.6 | 24.9 |
| 95° | 38.0 | 39.1 | 40.1 | 40.5 | 40.3 | 40.1 | 39.9 | 39.7 |
| 97.5° | 49.8 | 50.6 | 51.4 | 51.9 | 52.2 | 52.4 | 52.7 | 52.9 |
| 100° | 55.8 | 57.5 | 59.2 | 60.2 | 60.6 | 61.0 | 61.4 | 61.8 |
| 102.5° | 58.3 | 60.5 | 62.6 | 63.9 | 64.5 | 65.0 | 65.6 | 66.2 |
| 105° | 60.8 | 63.0 | 65.2 | 66.9 | 67.7 | 68.5 | 69.3 | 70.1 |
| 107.5° | 74.1 | 71.9 | 69.6 | 68.9 | 69.7 | 70.5 | 71.3 | 72.1 |
| 110° | 120.4 | 99.9 | 79.4 | 69.6 | 70.4 | 71.2 | 72.0 | 72.9 |



TEST NUMBER: P331726-840

CATALOG NUMBER: SA2XXRDIP-C865D925U840-4F0-1E-UDD-F

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 257.6 | 182.8 | 108.1 | 71.0 | 71.6 | 72.3 | 72.9 | 73.6 |
| 115° | 379.3 | 284.4 | 189.5 | 134.6 | 119.9 | 105.1 | 90.4 | 75.6 |
| 117.5° | 584.4 | 561.5 | 538.5 | 502.7 | 454.2 | 405.8 | 357.3 | 308.8 |
| 120° | 681.0 | 683.5 | 685.9 | 673.3 | 645.6 | 617.9 | 590.3 | 562.6 |
| 122.5° | 722.6 | 724.0 | 725.5 | 723.6 | 718.2 | 712.8 | 707.4 | 702.1 |
| 125° | 782.2 | 783.7 | 785.1 | 786.1 | 786.7 | 787.3 | 788.0 | 788.6 |
| 127.5° | 837.4 | 839.5 | 841.6 | 842.6 | 842.8 | 842.9 | 843.0 | 843.1 |
| 130° | 872.4 | 874.6 | 876.9 | 878.0 | 877.8 | 877.5 | 877.3 | 877.1 |
| 132.5° | 906.5 | 908.4 | 910.3 | 911.1 | 910.9 | 910.7 | 910.5 | 910.3 |
| 135° | 955.0 | 957.0 | 959.1 | 959.9 | 959.5 | 959.1 | 958.7 | 958.3 |
| 137.5° | 1000.1 | 1002.1 | 1004.1 | 1004.8 | 1004.1 | 1003.4 | 1002.7 | 1002.0 |
| 140° | 1029.3 | 1031.2 | 1033.0 | 1033.4 | 1032.4 | 1031.4 | 1030.4 | 1029.3 |
| 142.5° | 1056.2 | 1057.9 | 1059.7 | 1060.0 | 1058.9 | 1057.9 | 1056.9 | 1055.8 |
| 145° | 1094.0 | 1095.4 | 1096.8 | 1097.0 | 1096.0 | 1095.0 | 1094.0 | 1093.0 |
| 147.5° | 1126.8 | 1127.8 | 1128.9 | 1129.0 | 1128.1 | 1127.3 | 1126.4 | 1125.6 |
| 150° | 1147.0 | 1148.3 | 1149.5 | 1149.6 | 1148.6 | 1147.5 | 1146.5 | 1145.5 |
| 152.5° | 1165.5 | 1166.7 | 1167.9 | 1167.9 | 1166.5 | 1165.2 | 1163.9 | 1162.5 |
| 155° | 1190.4 | 1191.6 | 1192.9 | 1192.7 | 1191.0 | 1189.3 | 1187.7 | 1186.1 |
| 157.5° | 1211.3 | 1212.7 | 1214.2 | 1214.1 | 1212.4 | 1210.8 | 1209.2 | 1207.7 |
| 160° | 1223.6 | 1224.9 | 1226.1 | 1226.0 | 1224.5 | 1223.0 | 1221.6 | 1220.2 |
| 162.5° | 1235.0 | 1236.4 | 1237.8 | 1237.6 | 1235.9 | 1234.1 | 1232.3 | 1230.5 |
| 165° | 1248.9 | 1250.3 | 1251.7 | 1251.7 | 1250.3 | 1248.9 | 1247.5 | 1246.1 |
| 167.5° | 1260.5 | 1261.9 | 1263.4 | 1263.1 | 1261.3 | 1259.5 | 1257.7 | 1255.8 |
| 170° | 1266.5 | 1267.9 | 1269.3 | 1269.1 | 1267.3 | 1265.4 | 1263.5 | 1261.7 |
| 172.5° | 1270.8 | 1272.3 | 1273.7 | 1273.5 | 1271.6 | 1269.8 | 1268.0 | 1266.2 |
| 175° | 1275.7 | 1277.1 | 1278.5 | 1278.2 | 1276.2 | 1274.1 | 1272.0 | 1270.0 |
| 177.5° | 1276.2 | 1277.4 | 1278.5 | 1278.3 | 1276.9 | 1275.4 | 1273.8 | 1272.4 |
| 180° | 1274.7 | 1274.7 | 1274.7 | 1274.7 | 1274.7 | 1274.7 | 1274.7 | 1274.7 |

(END OF REPORT)