

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: P331704-840

Luminaire Tested: **SA2XXRDIP-C675D1080U840-4F0-1E-UDD-F4**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P331704-840
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-16,
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: SA2XXRDIP-C675D1080U840-4F0-1E-UDD-F4
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 675 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER, REGRESSED
HOUSING
UPLIGHT 1080 LUMENS PER FOOT, BATWING OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6593.4 lumens
Efficiency: N/A
Efficacy: 115.9 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: Semi-Indirect

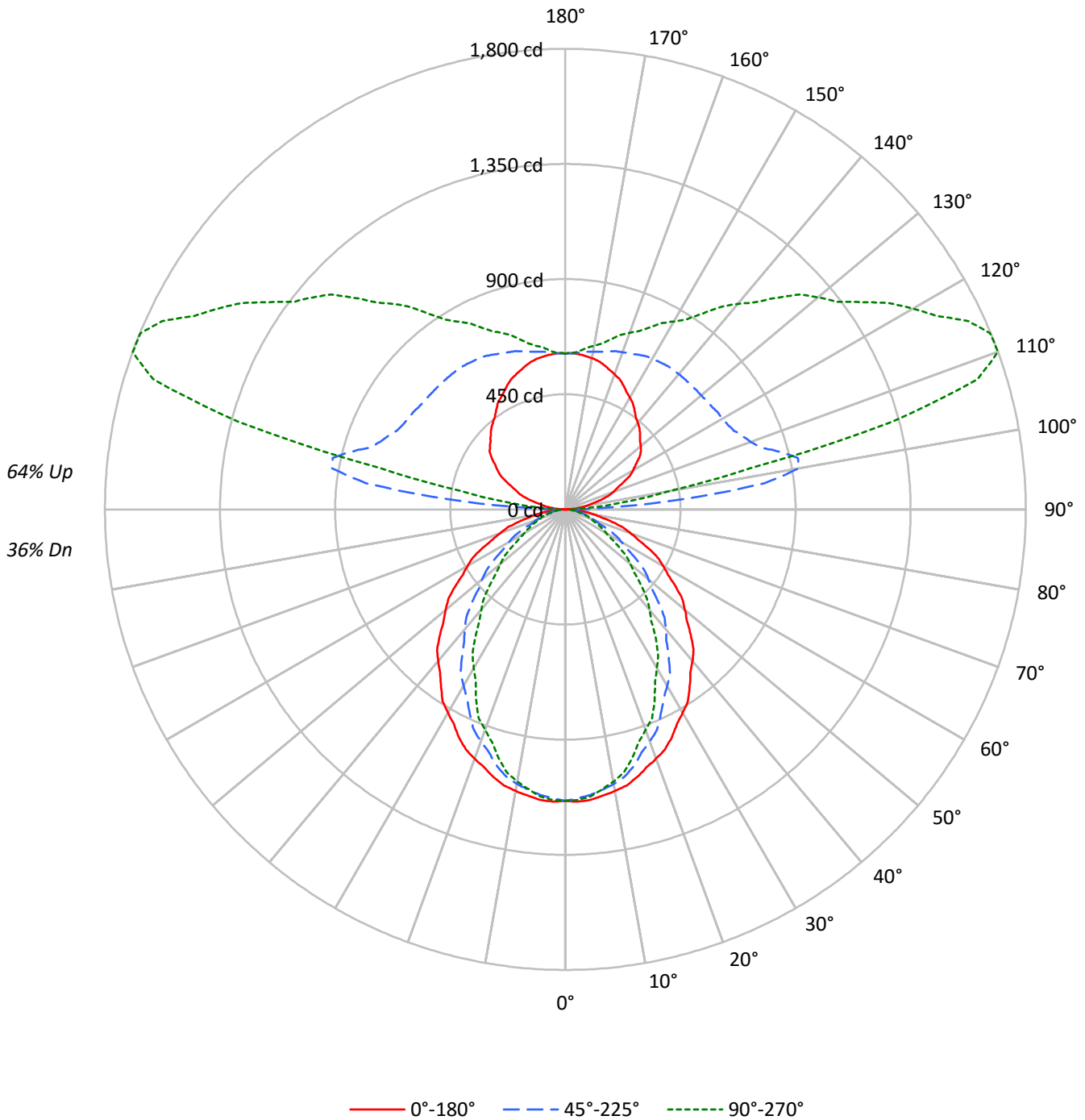
Input Watts (W): 56.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P331704-840

CATALOG NUMBER: SA2XXRDIP-C675D1080U840-4F0-1E-UDD-F4

Luminous Intensity Polar Plot





TEST NUMBER: P331704-840

CATALOG NUMBER: SA2XXRDIP-C675D1080U840-4F0-1E-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 | 104 | 104 | 104 | 104 | 94 | 94 | 94 | 94 | 75 | 75 | 75 | 58 | 58 | 58 | 43 | 43 | 43 | 36 |
| 1 | 95 | 91 | 87 | 84 | 86 | 82 | 79 | 76 | 66 | 64 | 62 | 52 | 50 | 49 | 38 | 38 | 37 | 31 |
| 2 | 87 | 80 | 74 | 69 | 78 | 72 | 67 | 63 | 59 | 55 | 52 | 46 | 44 | 42 | 34 | 33 | 32 | 26 |
| 3 | 79 | 70 | 63 | 58 | 71 | 64 | 58 | 53 | 52 | 48 | 44 | 41 | 38 | 36 | 31 | 29 | 27 | 23 |
| 4 | 73 | 62 | 55 | 49 | 65 | 57 | 50 | 45 | 46 | 42 | 38 | 37 | 33 | 31 | 28 | 25 | 24 | 20 |
| 5 | 67 | 56 | 48 | 42 | 60 | 51 | 44 | 39 | 42 | 37 | 33 | 33 | 29 | 27 | 25 | 23 | 21 | 17 |
| 6 | 61 | 50 | 42 | 37 | 56 | 46 | 39 | 34 | 37 | 32 | 29 | 30 | 26 | 24 | 23 | 20 | 19 | 15 |
| 7 | 57 | 45 | 37 | 32 | 51 | 41 | 35 | 30 | 34 | 29 | 25 | 27 | 24 | 21 | 21 | 18 | 17 | 14 |
| 8 | 53 | 41 | 33 | 28 | 48 | 38 | 31 | 26 | 31 | 26 | 23 | 25 | 21 | 19 | 19 | 17 | 15 | 12 |
| 9 | 49 | 37 | 30 | 25 | 44 | 34 | 28 | 24 | 28 | 24 | 20 | 23 | 19 | 17 | 18 | 15 | 14 | 11 |
| 10 | 46 | 34 | 27 | 23 | 42 | 31 | 25 | 21 | 26 | 21 | 18 | 21 | 18 | 15 | 17 | 14 | 12 | 10 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 18392 | 18392 | 18392 |
| 5° | 18462 | 18162 | 18263 |
| 10° | 18321 | 17864 | 17713 |
| 15° | 18111 | 17336 | 16836 |
| 20° | 17819 | 16579 | 15747 |
| 25° | 17521 | 15720 | 14694 |
| 30° | 17107 | 14838 | 13340 |
| 35° | 16703 | 13878 | 12151 |
| 40° | 16297 | 12886 | 10777 |
| 45° | 15819 | 11768 | 9533 |
| 50° | 15330 | 10643 | 8312 |
| 55° | 14829 | 9433 | 7139 |
| 60° | 14247 | 8157 | 5926 |
| 65° | 13589 | 6854 | 5398 |
| 70° | 12798 | 5646 | 4961 |
| 75° | 11834 | 5147 | 4629 |
| 80° | 10451 | 4603 | 4212 |
| 85° | 8207 | 3631 | 3631 |



TEST NUMBER: P331704-840

CATALOG NUMBER: SA2XXRDIP-C675D1080U840-4F0-1E-UDD-F4

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 106.6 | 1.6 |
| 10°-20° | 292.8 | 4.4 |
| 20°-30° | 411.1 | 6.2 |
| 30°-40° | 448.3 | 6.8 |
| 40°-50° | 412.2 | 6.3 |
| 50°-60° | 323.8 | 4.9 |
| 60°-70° | 211.1 | 3.2 |
| 70°-80° | 108.8 | 1.7 |
| 80°-90° | 33.7 | 0.5 |
| 90°-100° | 243.9 | 3.7 |
| 100°-110° | 827.7 | 12.6 |
| 110°-120° | 879.3 | 13.3 |
| 120°-130° | 723.9 | 11.0 |
| 130°-140° | 581.3 | 8.8 |
| 140°-150° | 439.3 | 6.7 |
| 150°-160° | 308.7 | 4.7 |
| 160°-170° | 181.7 | 2.8 |
| 170°-180° | 59.1 | 0.9 |
| 0°-30° | 810.5 | 12.3 |
| 0°-40° | 1258.9 | 19.1 |
| 0°-60° | 1994.8 | 30.3 |
| 0°-90° | 2348.5 | 35.6 |
| 90°-120° | 1951.0 | 29.6 |
| 90°-150° | 3695.4 | 56.0 |
| 90°-180° | 4245.0 | 64.4 |
| 0°-180° | 6593.4 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 1139 | 1139 | 1139 | 1139 | 1139 | |
| 5° | 1139 | 1134 | 1121 | 1129 | 1127 | 108 |
| 15° | 1084 | 1071 | 1037 | 1018 | 1007 | 305 |
| 25° | 984 | 949 | 882 | 842 | 825 | 452 |
| 35° | 847 | 793 | 704 | 642 | 616 | 530 |
| 45° | 693 | 622 | 515 | 445 | 418 | 535 |
| 55° | 527 | 445 | 335 | 276 | 254 | 471 |
| 65° | 356 | 272 | 179 | 146 | 141 | 352 |
| 75° | 190 | 120 | 82 | 76 | 74 | 201 |
| 85° | 44 | 24 | 20 | 20 | 20 | 52 |
| 90° | 1 | 16 | 40 | 38 | 39 | 4 |
| 95° | 41 | 101 | 460 | 174 | 134 | 44 |
| 105° | 143 | 216 | 869 | 1554 | 1322 | 152 |
| 115° | 252 | 319 | 727 | 1501 | 1740 | 250 |
| 125° | 352 | 416 | 699 | 1216 | 1411 | 312 |
| 135° | 413 | 493 | 691 | 1022 | 1170 | 319 |
| 145° | 472 | 542 | 687 | 854 | 934 | 296 |
| 155° | 536 | 579 | 668 | 755 | 785 | 247 |
| 165° | 584 | 602 | 639 | 678 | 689 | 165 |
| 175° | 609 | 609 | 615 | 622 | 621 | 58 |
| 180° | 610 | 610 | 610 | 610 | 610 | |



TEST NUMBER: P331704-840

CATALOG NUMBER: SA2XXRDIP-C675D1080U840-4F0-1E-UDD-F4

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1139.1 | 1139.1 | 1139.1 | 1139.1 | 1139.1 | 1139.1 | 1139.1 | 1139.1 | 1139.1 | 1139.1 | 1139.1 |
| 2.5° | 1143.3 | 1142.4 | 1141.5 | 1140.5 | 1139.6 | 1138.1 | 1136.1 | 1134.1 | 1132.2 | 1130.1 | 1132.0 |
| 5° | 1139.1 | 1138.0 | 1136.9 | 1135.7 | 1134.6 | 1132.6 | 1129.5 | 1126.6 | 1123.6 | 1120.6 | 1122.7 |
| 7.5° | 1127.4 | 1126.0 | 1124.6 | 1123.2 | 1121.8 | 1119.2 | 1115.8 | 1112.4 | 1108.8 | 1105.4 | 1105.9 |
| 10° | 1117.5 | 1115.9 | 1114.3 | 1112.7 | 1111.1 | 1108.0 | 1103.4 | 1098.8 | 1094.3 | 1089.6 | 1089.0 |
| 12.5° | 1105.1 | 1103.2 | 1101.2 | 1099.2 | 1097.2 | 1093.4 | 1087.5 | 1081.7 | 1075.7 | 1069.9 | 1068.6 |
| 15° | 1083.5 | 1081.0 | 1078.4 | 1075.9 | 1073.4 | 1068.2 | 1060.5 | 1052.7 | 1044.9 | 1037.1 | 1032.8 |
| 17.5° | 1056.9 | 1053.1 | 1049.2 | 1045.3 | 1041.5 | 1034.6 | 1024.6 | 1014.6 | 1004.6 | 994.6 | 989.5 |
| 20° | 1037.1 | 1032.5 | 1027.9 | 1023.4 | 1018.8 | 1010.8 | 999.3 | 987.8 | 976.4 | 964.9 | 959.2 |
| 22.5° | 1015.6 | 1010.6 | 1005.4 | 1000.3 | 995.1 | 986.1 | 973.2 | 960.3 | 947.4 | 934.4 | 927.1 |
| 25° | 983.5 | 976.1 | 968.9 | 961.5 | 954.2 | 942.9 | 927.9 | 912.7 | 897.6 | 882.4 | 873.0 |
| 27.5° | 944.7 | 936.8 | 928.8 | 920.8 | 912.8 | 900.3 | 883.3 | 866.3 | 849.2 | 832.1 | 821.2 |
| 30° | 917.6 | 908.8 | 900.1 | 891.4 | 882.7 | 869.2 | 850.8 | 832.5 | 814.2 | 795.9 | 784.2 |
| 32.5° | 891.1 | 880.9 | 870.8 | 860.6 | 850.4 | 836.0 | 817.3 | 798.6 | 779.9 | 761.2 | 747.9 |
| 35° | 847.4 | 835.8 | 824.0 | 812.3 | 800.7 | 784.8 | 764.6 | 744.5 | 724.3 | 704.1 | 689.6 |
| 37.5° | 803.8 | 790.8 | 778.0 | 765.2 | 752.3 | 735.2 | 713.8 | 692.3 | 670.8 | 649.2 | 633.4 |
| 40° | 773.2 | 759.4 | 745.7 | 732.0 | 718.2 | 700.2 | 678.0 | 655.8 | 633.6 | 611.4 | 595.1 |
| 42.5° | 741.8 | 727.4 | 712.9 | 698.4 | 684.0 | 665.2 | 642.3 | 619.4 | 596.3 | 573.4 | 556.5 |
| 45° | 692.8 | 677.4 | 662.1 | 646.7 | 631.4 | 611.7 | 587.6 | 563.6 | 539.5 | 515.4 | 499.2 |
| 47.5° | 644.9 | 628.6 | 612.4 | 596.1 | 579.9 | 559.4 | 534.5 | 509.7 | 484.8 | 460.0 | 443.8 |
| 50° | 610.3 | 594.0 | 577.7 | 561.5 | 545.2 | 524.5 | 499.3 | 474.1 | 448.9 | 423.7 | 407.9 |
| 52.5° | 576.5 | 559.5 | 542.5 | 525.5 | 508.5 | 487.7 | 463.0 | 438.4 | 413.7 | 389.1 | 373.9 |
| 55° | 526.8 | 509.0 | 491.1 | 473.2 | 455.3 | 434.0 | 409.3 | 384.6 | 359.8 | 335.1 | 321.3 |
| 57.5° | 475.8 | 457.6 | 439.2 | 420.9 | 402.5 | 381.5 | 357.7 | 334.0 | 310.1 | 286.4 | 273.8 |
| 60° | 441.2 | 422.9 | 404.6 | 386.3 | 367.9 | 347.0 | 323.4 | 299.7 | 276.2 | 252.6 | 240.9 |
| 62.5° | 407.4 | 389.1 | 370.7 | 352.4 | 334.1 | 313.7 | 291.2 | 268.7 | 246.2 | 223.7 | 212.6 |
| 65° | 355.7 | 337.1 | 318.5 | 300.0 | 281.4 | 261.9 | 241.3 | 220.7 | 200.0 | 179.4 | 171.6 |
| 67.5° | 305.8 | 287.3 | 268.9 | 250.5 | 232.1 | 213.6 | 195.0 | 176.5 | 157.9 | 139.4 | 135.8 |
| 70° | 271.1 | 253.3 | 235.4 | 217.5 | 199.7 | 182.8 | 167.0 | 151.2 | 135.4 | 119.6 | 117.2 |
| 72.5° | 238.1 | 221.0 | 203.9 | 186.7 | 169.6 | 154.7 | 142.0 | 129.3 | 116.6 | 103.9 | 102.0 |
| 75° | 189.7 | 173.7 | 157.6 | 141.6 | 125.5 | 113.6 | 105.8 | 98.1 | 90.3 | 82.5 | 80.9 |
| 77.5° | 142.1 | 127.9 | 113.9 | 99.9 | 85.8 | 76.9 | 73.1 | 69.4 | 65.6 | 61.9 | 60.9 |
| 80° | 112.4 | 100.7 | 89.0 | 77.4 | 65.6 | 58.7 | 56.4 | 54.0 | 51.8 | 49.5 | 48.6 |
| 82.5° | 85.1 | 76.0 | 67.0 | 57.8 | 48.7 | 43.3 | 41.8 | 40.2 | 38.7 | 37.2 | 36.6 |
| 85° | 44.3 | 39.5 | 34.7 | 29.9 | 25.0 | 22.3 | 21.6 | 21.0 | 20.3 | 19.6 | 19.6 |
| 87.5° | 13.4 | 12.6 | 12.1 | 11.1 | 10.1 | 10.1 | 11.3 | 12.9 | 14.3 | 14.5 | 14.1 |
| 90° | 1.2 | 4.6 | 9.4 | 11.7 | 14.0 | 17.6 | 23.4 | 31.7 | 38.7 | 39.9 | 38.7 |
| 92.5° | 14.3 | 20.6 | 29.1 | 34.2 | 42.2 | 53.2 | 79.8 | 117.0 | 150.4 | 152.5 | 128.9 |
| 95° | 41.1 | 45.7 | 57.5 | 68.1 | 86.8 | 114.9 | 169.0 | 270.9 | 407.1 | 459.9 | 402.4 |
| 97.5° | 66.9 | 73.2 | 85.6 | 101.6 | 123.2 | 155.1 | 222.9 | 365.1 | 591.3 | 785.1 | 823.5 |
| 100° | 90.3 | 93.8 | 104.4 | 123.2 | 146.6 | 179.5 | 241.7 | 384.8 | 638.1 | 926.8 | 1095.7 |
| 102.5° | 111.9 | 114.5 | 125.0 | 143.8 | 168.2 | 201.1 | 258.5 | 385.8 | 620.4 | 931.5 | 1197.1 |
| 105° | 143.1 | 147.8 | 156.0 | 173.6 | 199.4 | 232.3 | 287.4 | 391.8 | 585.4 | 869.3 | 1181.3 |
| 107.5° | 176.9 | 180.7 | 188.6 | 204.8 | 230.5 | 263.5 | 317.0 | 408.0 | 568.0 | 802.6 | 1078.3 |
| 110° | 199.4 | 204.1 | 211.2 | 226.4 | 251.1 | 285.1 | 336.7 | 421.1 | 564.3 | 770.7 | 1013.6 |



TEST NUMBER: P331704-840

CATALOG NUMBER: SA2XXRDIP-C675D1080U840-4F0-1E-UDD-F4

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 220.0 | 224.8 | 232.8 | 247.0 | 270.7 | 305.7 | 355.5 | 435.3 | 565.2 | 750.1 | 968.6 |
| 115° | 252.3 | 258.1 | 265.1 | 279.2 | 302.7 | 334.4 | 384.8 | 456.4 | 570.2 | 727.3 | 912.7 |
| 117.5° | 285.6 | 290.2 | 297.3 | 309.7 | 332.2 | 365.1 | 411.7 | 478.9 | 578.6 | 716.3 | 877.5 |
| 120° | 306.2 | 310.8 | 317.9 | 328.5 | 351.9 | 384.8 | 430.5 | 493.9 | 584.2 | 709.7 | 858.7 |
| 122.5° | 325.9 | 329.6 | 336.7 | 348.2 | 371.6 | 405.5 | 448.4 | 507.1 | 590.8 | 706.0 | 842.7 |
| 125° | 351.9 | 355.5 | 362.5 | 376.6 | 400.0 | 432.9 | 475.1 | 528.0 | 600.7 | 699.2 | 820.0 |
| 127.5° | 372.5 | 377.3 | 387.2 | 402.6 | 425.2 | 458.9 | 500.0 | 547.3 | 610.8 | 695.2 | 798.9 |
| 130° | 384.8 | 389.5 | 401.2 | 417.7 | 441.1 | 473.9 | 515.0 | 559.6 | 618.2 | 693.3 | 784.9 |
| 132.5° | 396.1 | 401.7 | 414.3 | 431.7 | 456.2 | 489.0 | 528.2 | 571.8 | 625.7 | 692.4 | 773.6 |
| 135° | 412.9 | 417.7 | 431.7 | 449.3 | 476.3 | 509.2 | 546.6 | 587.7 | 634.7 | 690.9 | 757.8 |
| 137.5° | 428.9 | 434.5 | 448.6 | 467.4 | 494.1 | 524.6 | 561.7 | 600.0 | 642.7 | 690.7 | 746.8 |
| 140° | 441.1 | 445.8 | 459.9 | 478.7 | 504.4 | 534.9 | 570.2 | 606.5 | 646.4 | 689.8 | 740.2 |
| 142.5° | 453.3 | 457.1 | 470.2 | 489.0 | 513.8 | 542.5 | 576.7 | 612.2 | 649.2 | 689.8 | 733.7 |
| 145° | 471.6 | 476.3 | 488.1 | 505.6 | 529.1 | 554.9 | 586.5 | 619.5 | 652.3 | 687.4 | 725.0 |
| 147.5° | 491.3 | 494.8 | 506.0 | 522.3 | 541.8 | 564.7 | 594.5 | 623.4 | 653.2 | 683.3 | 716.1 |
| 150° | 504.4 | 508.0 | 517.4 | 532.6 | 550.2 | 571.3 | 598.3 | 625.3 | 652.3 | 680.4 | 708.5 |
| 152.5° | 517.6 | 519.3 | 528.6 | 542.0 | 558.7 | 577.8 | 602.1 | 626.2 | 650.4 | 675.7 | 702.0 |
| 155° | 536.1 | 537.2 | 544.3 | 557.2 | 570.2 | 587.7 | 607.6 | 627.6 | 647.5 | 667.5 | 689.8 |
| 157.5° | 551.6 | 552.8 | 558.5 | 569.7 | 580.0 | 594.8 | 611.7 | 627.6 | 642.2 | 659.0 | 678.3 |
| 160° | 561.9 | 563.1 | 567.7 | 577.1 | 586.5 | 599.5 | 613.6 | 627.6 | 639.3 | 653.5 | 669.8 |
| 162.5° | 572.3 | 571.6 | 576.2 | 583.7 | 592.2 | 602.3 | 614.5 | 626.7 | 636.5 | 648.7 | 662.4 |
| 165° | 584.2 | 583.1 | 585.4 | 592.4 | 598.3 | 605.3 | 615.9 | 624.1 | 631.2 | 639.3 | 649.9 |
| 167.5° | 594.1 | 592.7 | 594.8 | 599.3 | 603.5 | 607.9 | 615.6 | 622.5 | 625.7 | 631.2 | 637.7 |
| 170° | 600.7 | 598.3 | 599.5 | 603.0 | 605.3 | 608.8 | 614.7 | 620.6 | 622.9 | 626.4 | 631.2 |
| 172.5° | 604.4 | 603.0 | 602.3 | 605.8 | 607.2 | 609.8 | 613.8 | 617.7 | 619.1 | 620.9 | 624.6 |
| 175° | 608.8 | 607.6 | 606.5 | 608.8 | 608.8 | 610.1 | 612.4 | 614.7 | 613.6 | 614.7 | 615.9 |
| 177.5° | 611.0 | 609.0 | 608.1 | 610.1 | 610.1 | 610.1 | 611.0 | 612.9 | 611.0 | 610.1 | 611.0 |
| 180° | 610.1 | 610.1 | 610.1 | 610.1 | 610.1 | 610.1 | 610.1 | 610.1 | 610.1 | 610.1 | 610.1 |



TEST NUMBER: P331704-840

CATALOG NUMBER: SA2XXRDIP-C675D1080U840-4F0-1E-UDD-F4

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1139.1 | 1139.1 | 1139.1 | 1139.1 | 1139.1 | 1139.1 | 1139.1 | 1139.1 |
| 2.5° | 1133.8 | 1135.6 | 1137.4 | 1138.1 | 1137.8 | 1137.4 | 1137.1 | 1136.7 |
| 5° | 1124.7 | 1126.8 | 1128.8 | 1129.5 | 1128.8 | 1128.1 | 1127.5 | 1126.8 |
| 7.5° | 1106.5 | 1107.1 | 1107.7 | 1107.4 | 1106.2 | 1105.1 | 1103.9 | 1102.7 |
| 10° | 1088.3 | 1087.6 | 1086.9 | 1085.9 | 1084.5 | 1083.2 | 1081.8 | 1080.4 |
| 12.5° | 1067.4 | 1066.2 | 1064.9 | 1063.2 | 1060.9 | 1058.6 | 1056.3 | 1054.0 |
| 15° | 1028.4 | 1024.0 | 1019.7 | 1016.3 | 1014.1 | 1011.8 | 1009.5 | 1007.2 |
| 17.5° | 984.3 | 979.1 | 973.9 | 969.4 | 965.4 | 961.5 | 957.6 | 953.6 |
| 20° | 953.5 | 947.8 | 942.0 | 936.6 | 931.6 | 926.6 | 921.5 | 916.5 |
| 22.5° | 919.7 | 912.3 | 904.9 | 899.4 | 895.5 | 891.8 | 888.1 | 884.3 |
| 25° | 863.6 | 854.2 | 844.9 | 838.5 | 835.1 | 831.6 | 828.2 | 824.8 |
| 27.5° | 810.2 | 799.3 | 788.4 | 780.1 | 774.7 | 769.2 | 763.8 | 758.3 |
| 30° | 772.5 | 760.8 | 749.1 | 740.2 | 734.0 | 727.8 | 721.6 | 715.5 |
| 32.5° | 734.6 | 721.2 | 707.9 | 698.3 | 692.5 | 686.7 | 680.9 | 675.1 |
| 35° | 675.3 | 660.9 | 646.4 | 636.6 | 631.6 | 626.5 | 621.6 | 616.5 |
| 37.5° | 617.4 | 601.6 | 585.7 | 574.8 | 569.1 | 563.3 | 557.5 | 551.8 |
| 40° | 578.8 | 562.5 | 546.2 | 535.1 | 529.2 | 523.2 | 517.3 | 511.3 |
| 42.5° | 539.8 | 522.9 | 506.1 | 494.8 | 489.1 | 483.3 | 477.6 | 471.7 |
| 45° | 482.9 | 466.7 | 450.4 | 439.5 | 434.0 | 428.5 | 423.0 | 417.5 |
| 47.5° | 427.7 | 411.5 | 395.3 | 384.8 | 379.7 | 374.8 | 369.7 | 364.8 |
| 50° | 392.1 | 376.3 | 360.5 | 350.1 | 345.4 | 340.5 | 335.8 | 330.9 |
| 52.5° | 358.6 | 343.3 | 328.0 | 318.2 | 313.8 | 309.3 | 304.9 | 300.4 |
| 55° | 307.6 | 293.8 | 280.0 | 271.0 | 266.7 | 262.3 | 257.9 | 253.6 |
| 57.5° | 261.2 | 248.6 | 236.0 | 227.8 | 224.2 | 220.6 | 216.8 | 213.2 |
| 60° | 229.2 | 217.5 | 205.8 | 198.1 | 194.5 | 190.9 | 187.1 | 183.5 |
| 62.5° | 201.5 | 190.3 | 179.2 | 172.5 | 170.3 | 168.1 | 165.9 | 163.7 |
| 65° | 163.8 | 156.0 | 148.2 | 144.0 | 143.3 | 142.6 | 141.9 | 141.3 |
| 67.5° | 132.2 | 128.7 | 125.1 | 122.9 | 122.2 | 121.5 | 120.8 | 120.0 |
| 70° | 115.0 | 112.7 | 110.4 | 108.9 | 107.9 | 106.9 | 106.0 | 105.1 |
| 72.5° | 100.1 | 98.2 | 96.2 | 95.0 | 94.4 | 93.9 | 93.3 | 92.8 |
| 75° | 79.3 | 77.7 | 76.0 | 75.1 | 74.9 | 74.7 | 74.4 | 74.2 |
| 77.5° | 60.0 | 59.1 | 58.2 | 57.6 | 57.2 | 56.9 | 56.5 | 56.0 |
| 80° | 47.7 | 46.8 | 45.8 | 45.3 | 45.3 | 45.3 | 45.3 | 45.3 |
| 82.5° | 36.1 | 35.4 | 34.9 | 34.6 | 34.6 | 34.6 | 34.6 | 34.6 |
| 85° | 19.6 | 19.6 | 19.6 | 19.6 | 19.6 | 19.6 | 19.6 | 19.6 |
| 87.5° | 13.7 | 13.1 | 13.3 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 |
| 90° | 37.6 | 35.2 | 37.6 | 38.7 | 38.7 | 38.7 | 38.7 | 38.7 |
| 92.5° | 102.3 | 87.8 | 77.9 | 70.6 | 69.7 | 65.9 | 66.9 | 65.0 |
| 95° | 307.4 | 235.8 | 186.5 | 160.7 | 145.4 | 136.1 | 132.6 | 133.7 |
| 97.5° | 717.2 | 586.8 | 459.9 | 375.2 | 319.1 | 290.2 | 273.1 | 263.3 |
| 100° | 1071.1 | 925.6 | 764.9 | 622.9 | 525.5 | 475.1 | 441.1 | 420.0 |
| 102.5° | 1302.9 | 1270.0 | 1152.5 | 1002.1 | 896.3 | 810.2 | 767.7 | 739.1 |
| 105° | 1425.3 | 1557.9 | 1573.2 | 1534.5 | 1461.7 | 1389.0 | 1338.6 | 1322.1 |
| 107.5° | 1337.2 | 1536.8 | 1658.8 | 1715.6 | 1724.7 | 1720.7 | 1710.6 | 1688.8 |
| 110° | 1261.1 | 1471.1 | 1621.2 | 1717.5 | 1767.9 | 1790.2 | 1800.8 | 1799.6 |



TEST NUMBER: P331704-840

CATALOG NUMBER: SA2XXRDIP-C675D1080U840-4F0-1E-UDD-F4

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 1191.6 | 1393.2 | 1553.7 | 1664.0 | 1734.1 | 1771.4 | 1791.4 | 1797.7 |
| 115° | 1106.3 | 1287.0 | 1440.6 | 1561.5 | 1644.8 | 1698.7 | 1729.2 | 1739.8 |
| 117.5° | 1042.0 | 1200.6 | 1340.0 | 1453.3 | 1538.2 | 1595.2 | 1627.4 | 1636.3 |
| 120° | 1010.1 | 1155.5 | 1279.9 | 1386.6 | 1468.7 | 1523.9 | 1557.9 | 1569.6 |
| 122.5° | 984.7 | 1118.0 | 1235.8 | 1332.2 | 1405.8 | 1460.1 | 1490.4 | 1500.2 |
| 125° | 947.9 | 1068.7 | 1171.9 | 1259.9 | 1328.0 | 1372.6 | 1401.9 | 1411.3 |
| 127.5° | 911.5 | 1020.9 | 1118.2 | 1199.4 | 1258.8 | 1300.5 | 1325.9 | 1333.4 |
| 130° | 888.1 | 989.0 | 1081.7 | 1159.0 | 1216.6 | 1256.5 | 1279.9 | 1289.3 |
| 132.5° | 865.6 | 959.0 | 1044.1 | 1116.8 | 1173.4 | 1213.3 | 1234.9 | 1243.2 |
| 135° | 834.0 | 911.5 | 989.0 | 1054.6 | 1105.1 | 1143.8 | 1164.9 | 1169.6 |
| 137.5° | 809.0 | 873.7 | 935.2 | 992.5 | 1038.4 | 1071.8 | 1090.4 | 1097.3 |
| 140° | 793.0 | 849.4 | 903.3 | 954.9 | 992.5 | 1023.0 | 1040.6 | 1047.6 |
| 142.5° | 779.9 | 827.8 | 874.2 | 917.4 | 953.0 | 980.8 | 996.4 | 997.8 |
| 145° | 761.3 | 800.1 | 836.5 | 870.5 | 898.6 | 918.6 | 930.3 | 933.8 |
| 147.5° | 747.1 | 777.6 | 806.0 | 830.8 | 854.0 | 870.0 | 878.0 | 880.1 |
| 150° | 736.7 | 762.5 | 787.2 | 808.3 | 825.9 | 840.0 | 847.0 | 848.2 |
| 152.5° | 726.4 | 750.3 | 771.2 | 789.5 | 803.3 | 815.6 | 820.7 | 820.9 |
| 155° | 712.1 | 730.8 | 748.4 | 761.3 | 774.3 | 782.4 | 787.2 | 784.9 |
| 157.5° | 695.4 | 711.1 | 725.9 | 736.0 | 745.2 | 751.9 | 754.1 | 754.1 |
| 160° | 685.1 | 698.0 | 710.9 | 719.1 | 727.3 | 733.2 | 734.4 | 734.4 |
| 162.5° | 674.8 | 685.8 | 696.8 | 703.2 | 711.3 | 715.4 | 716.5 | 715.6 |
| 165° | 659.3 | 667.5 | 675.7 | 680.4 | 685.1 | 689.8 | 689.8 | 688.6 |
| 167.5° | 644.5 | 650.9 | 656.5 | 660.8 | 662.8 | 665.4 | 665.2 | 663.8 |
| 170° | 637.0 | 640.6 | 645.2 | 647.5 | 648.7 | 652.3 | 651.1 | 648.7 |
| 172.5° | 628.5 | 631.2 | 634.9 | 636.3 | 637.5 | 639.1 | 637.9 | 636.5 |
| 175° | 619.5 | 620.6 | 621.8 | 622.9 | 622.9 | 624.1 | 622.9 | 620.6 |
| 177.5° | 612.9 | 612.9 | 613.8 | 613.8 | 613.8 | 613.8 | 612.9 | 611.0 |
| 180° | 610.1 | 610.1 | 610.1 | 610.1 | 610.1 | 610.1 | 610.1 | 610.1 |

(END OF REPORT)