

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: P331696-940

Luminaire Tested: **SA2XXRDIP-C675D925U940-4F0-1E-UDD-F**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P331696-940
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-C675D925U940-4F0-1E-UDD-F
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 675 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER, REGRESSED
HOUSING
UPLIGHT 925 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

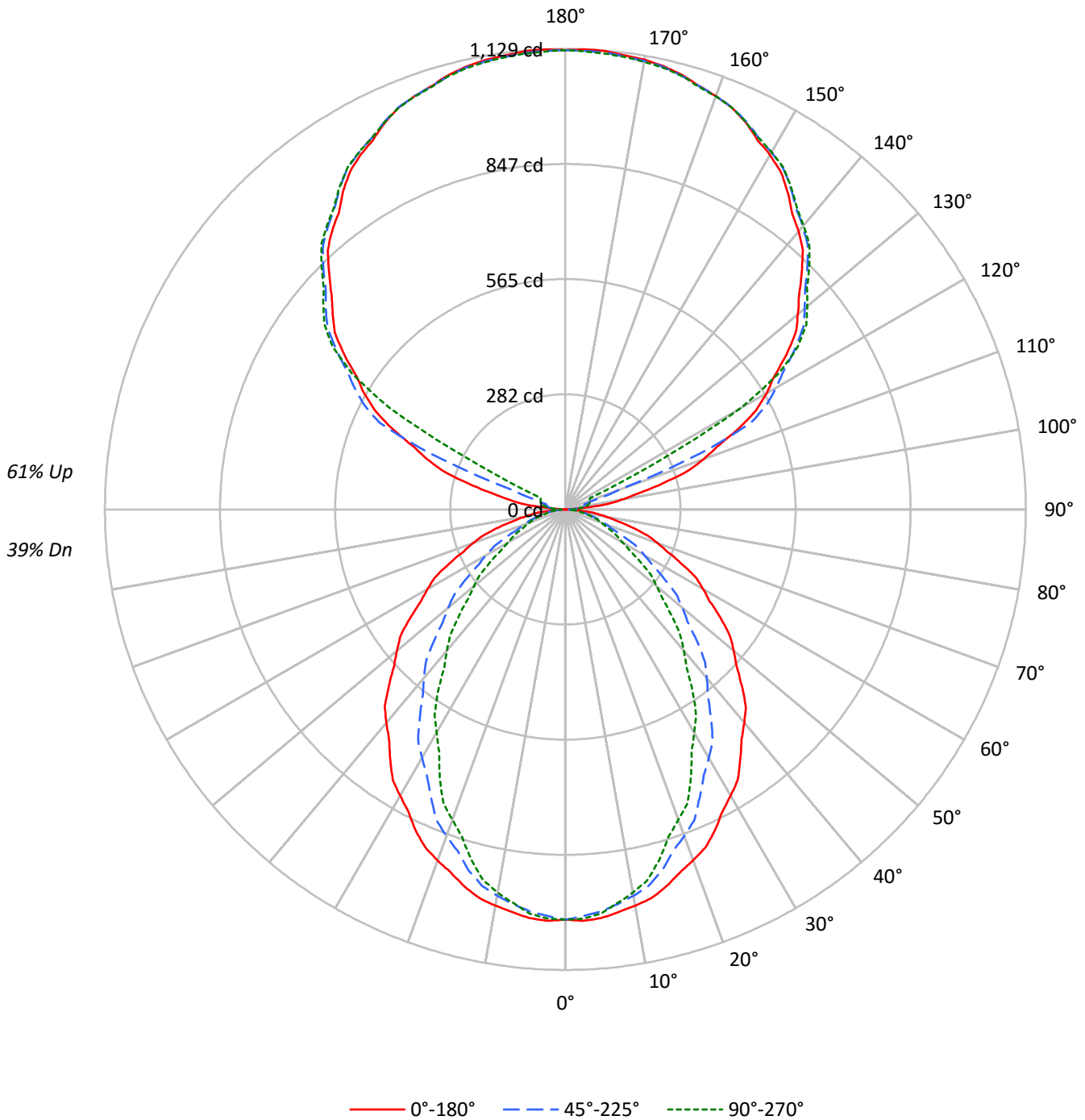
Lumens per Lamp: N/A
Luminaire Lumens: 5369.9 lumens
Efficiency: N/A
Efficacy: 103.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 0.99 / 1.16
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 52
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: P331696-940
CATALOG NUMBER: SA2XXRDIP-C675D925U940-4F0-1E-UDD-F

Luminous Intensity Polar Plot





TEST NUMBER: P331696-940

CATALOG NUMBER: SA2XXRDIP-C675D925U940-4F0-1E-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 | 0 |
| RCR | | | | | | | | | | | | | | | | | | |
| 0 | 104 | 104 | 104 | 104 | 95 | 95 | 95 | 95 | 77 | 77 | 77 | 61 | 61 | 61 | 46 | 46 | 46 | 39 |
| 1 | 96 | 91 | 88 | 84 | 87 | 83 | 80 | 77 | 68 | 66 | 64 | 54 | 52 | 51 | 41 | 40 | 39 | 33 |
| 2 | 87 | 80 | 74 | 70 | 79 | 73 | 68 | 64 | 60 | 56 | 53 | 48 | 45 | 43 | 36 | 35 | 34 | 28 |
| 3 | 80 | 71 | 64 | 58 | 72 | 65 | 59 | 54 | 53 | 49 | 45 | 42 | 40 | 37 | 33 | 31 | 29 | 25 |
| 4 | 73 | 63 | 55 | 50 | 66 | 58 | 51 | 46 | 47 | 43 | 39 | 38 | 35 | 32 | 29 | 27 | 25 | 21 |
| 5 | 67 | 56 | 48 | 43 | 61 | 51 | 45 | 40 | 43 | 38 | 34 | 34 | 31 | 28 | 27 | 24 | 22 | 19 |
| 6 | 62 | 50 | 43 | 37 | 56 | 46 | 39 | 35 | 38 | 33 | 30 | 31 | 27 | 25 | 24 | 22 | 20 | 17 |
| 7 | 57 | 46 | 38 | 33 | 52 | 42 | 35 | 30 | 35 | 30 | 26 | 28 | 25 | 22 | 22 | 20 | 18 | 15 |
| 8 | 53 | 41 | 34 | 29 | 48 | 38 | 32 | 27 | 32 | 27 | 23 | 26 | 22 | 20 | 20 | 18 | 16 | 13 |
| 9 | 50 | 38 | 31 | 26 | 45 | 35 | 28 | 24 | 29 | 24 | 21 | 24 | 20 | 18 | 19 | 16 | 14 | 12 |
| 10 | 46 | 35 | 28 | 23 | 42 | 32 | 26 | 22 | 27 | 22 | 19 | 22 | 19 | 16 | 18 | 15 | 13 | 11 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 16239 | 16239 | 16239 |
| 5° | 16302 | 16037 | 16126 |
| 10° | 16179 | 15775 | 15641 |
| 15° | 15992 | 15308 | 14867 |
| 20° | 15735 | 14639 | 13904 |
| 25° | 15471 | 13881 | 12975 |
| 30° | 15105 | 13103 | 11779 |
| 35° | 14747 | 12254 | 10730 |
| 40° | 14389 | 11377 | 9516 |
| 45° | 13967 | 10392 | 8416 |
| 50° | 13536 | 9399 | 7340 |
| 55° | 13095 | 8329 | 6303 |
| 60° | 12581 | 7201 | 5231 |
| 65° | 12000 | 6052 | 4768 |
| 70° | 11301 | 4985 | 4381 |
| 75° | 10449 | 4548 | 4086 |
| 80° | 9224 | 4063 | 3719 |
| 85° | 7243 | 3205 | 3205 |



TEST NUMBER: P331696-940

CATALOG NUMBER: SA2XXRDIP-C675D925U940-4F0-1E-UDD-F

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 94.2 | 1.8 |
| 10°-20° | 258.5 | 4.8 |
| 20°-30° | 363.0 | 6.8 |
| 30°-40° | 395.9 | 7.4 |
| 40°-50° | 364.0 | 6.8 |
| 50°-60° | 285.9 | 5.3 |
| 60°-70° | 186.4 | 3.5 |
| 70°-80° | 96.1 | 1.8 |
| 80°-90° | 27.7 | 0.5 |
| 90°-100° | 37.5 | 0.7 |
| 100°-110° | 137.7 | 2.6 |
| 110°-120° | 368.0 | 6.9 |
| 120°-130° | 607.5 | 11.3 |
| 130°-140° | 646.1 | 12.0 |
| 140°-150° | 600.5 | 11.2 |
| 150°-160° | 482.8 | 9.0 |
| 160°-170° | 311.1 | 5.8 |
| 170°-180° | 107.1 | 2.0 |
| 0°-30° | 715.7 | 13.3 |
| 0°-40° | 1111.6 | 20.7 |
| 0°-60° | 1761.4 | 32.8 |
| 0°-90° | 2071.6 | 38.6 |
| 90°-120° | 543.2 | 10.1 |
| 90°-150° | 2397.3 | 44.6 |
| 90°-180° | 3298.0 | 61.4 |
| 0°-180° | 5369.9 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 1006 | 1006 | 1006 | 1006 | 1006 | |
| 5° | 1006 | 1001 | 990 | 997 | 995 | 95 |
| 15° | 957 | 946 | 916 | 899 | 889 | 269 |
| 25° | 868 | 838 | 779 | 743 | 728 | 399 |
| 35° | 748 | 700 | 622 | 566 | 544 | 468 |
| 45° | 612 | 549 | 455 | 393 | 369 | 472 |
| 55° | 465 | 393 | 296 | 243 | 224 | 416 |
| 65° | 314 | 240 | 158 | 129 | 125 | 311 |
| 75° | 168 | 106 | 73 | 67 | 66 | 177 |
| 85° | 39 | 21 | 17 | 17 | 17 | 46 |
| 90° | 1 | 10 | 16 | 20 | 22 | 4 |
| 95° | 53 | 28 | 32 | 36 | 35 | 65 |
| 105° | 248 | 258 | 50 | 58 | 62 | 265 |
| 115° | 468 | 482 | 502 | 143 | 67 | 461 |
| 125° | 662 | 673 | 688 | 694 | 696 | 590 |
| 135° | 819 | 832 | 840 | 847 | 846 | 633 |
| 145° | 950 | 950 | 963 | 969 | 965 | 594 |
| 155° | 1046 | 1040 | 1049 | 1053 | 1047 | 482 |
| 165° | 1103 | 1098 | 1100 | 1105 | 1100 | 311 |
| 175° | 1128 | 1123 | 1124 | 1129 | 1121 | 107 |
| 180° | 1126 | 1126 | 1126 | 1126 | 1126 | |



TEST NUMBER: P331696-940

CATALOG NUMBER: SA2XXRDIP-C675D925U940-4F0-1E-UDD-F

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1005.8 | 1005.8 | 1005.8 | 1005.8 | 1005.8 | 1005.8 | 1005.8 | 1005.8 | 1005.8 | 1005.8 | 1005.8 |
| 2.5° | 1009.5 | 1008.7 | 1007.9 | 1007.1 | 1006.3 | 1005.0 | 1003.2 | 1001.4 | 999.7 | 997.9 | 999.5 |
| 5° | 1005.8 | 1004.9 | 1003.9 | 1002.8 | 1001.8 | 1000.1 | 997.4 | 994.8 | 992.1 | 989.5 | 991.3 |
| 7.5° | 995.5 | 994.3 | 993.0 | 991.8 | 990.5 | 988.3 | 985.3 | 982.2 | 979.1 | 976.1 | 976.5 |
| 10° | 986.8 | 985.3 | 983.9 | 982.5 | 981.1 | 978.4 | 974.3 | 970.3 | 966.3 | 962.2 | 961.6 |
| 12.5° | 975.8 | 974.1 | 972.3 | 970.6 | 968.8 | 965.5 | 960.3 | 955.1 | 949.9 | 944.7 | 943.6 |
| 15° | 956.7 | 954.5 | 952.3 | 950.0 | 947.8 | 943.3 | 936.4 | 929.5 | 922.7 | 915.8 | 912.0 |
| 17.5° | 933.3 | 929.9 | 926.5 | 923.0 | 919.6 | 913.6 | 904.7 | 895.9 | 887.1 | 878.2 | 873.7 |
| 20° | 915.8 | 911.7 | 907.7 | 903.7 | 899.6 | 892.5 | 882.3 | 872.3 | 862.2 | 852.0 | 846.9 |
| 22.5° | 896.8 | 892.3 | 887.8 | 883.2 | 878.7 | 870.8 | 859.3 | 847.9 | 836.5 | 825.1 | 818.6 |
| 25° | 868.4 | 861.9 | 855.5 | 849.0 | 842.6 | 832.6 | 819.3 | 805.9 | 792.6 | 779.2 | 770.9 |
| 27.5° | 834.2 | 827.2 | 820.1 | 813.1 | 806.0 | 795.0 | 780.0 | 764.9 | 749.8 | 734.8 | 725.1 |
| 30° | 810.2 | 802.5 | 794.8 | 787.1 | 779.4 | 767.5 | 751.3 | 735.1 | 718.9 | 702.8 | 692.4 |
| 32.5° | 786.8 | 777.8 | 768.9 | 759.9 | 750.9 | 738.2 | 721.7 | 705.2 | 688.7 | 672.2 | 660.4 |
| 35° | 748.2 | 738.0 | 727.6 | 717.3 | 707.0 | 692.9 | 675.1 | 657.4 | 639.5 | 621.7 | 608.9 |
| 37.5° | 709.7 | 698.3 | 687.0 | 675.6 | 664.3 | 649.2 | 630.3 | 611.3 | 592.3 | 573.3 | 559.3 |
| 40° | 682.7 | 670.6 | 658.4 | 646.3 | 634.2 | 618.3 | 598.7 | 579.1 | 559.5 | 539.8 | 525.5 |
| 42.5° | 655.1 | 642.3 | 629.5 | 616.7 | 604.0 | 587.4 | 567.1 | 546.9 | 526.6 | 506.3 | 491.4 |
| 45° | 611.7 | 598.2 | 584.6 | 571.1 | 557.5 | 540.1 | 518.9 | 497.7 | 476.4 | 455.1 | 440.8 |
| 47.5° | 569.4 | 555.1 | 540.7 | 526.4 | 512.0 | 493.9 | 472.0 | 450.0 | 428.1 | 406.2 | 391.9 |
| 50° | 538.9 | 524.5 | 510.1 | 495.8 | 481.4 | 463.2 | 440.9 | 418.7 | 396.4 | 374.2 | 360.2 |
| 52.5° | 509.1 | 494.0 | 479.0 | 464.0 | 449.0 | 430.6 | 408.8 | 387.1 | 365.3 | 343.6 | 330.1 |
| 55° | 465.2 | 449.4 | 433.6 | 417.9 | 402.1 | 383.3 | 361.4 | 339.6 | 317.7 | 295.9 | 283.7 |
| 57.5° | 420.2 | 404.0 | 387.8 | 371.7 | 355.4 | 336.9 | 315.8 | 294.9 | 273.8 | 252.9 | 241.7 |
| 60° | 389.6 | 373.4 | 357.2 | 341.1 | 324.9 | 306.4 | 285.5 | 264.7 | 243.9 | 223.0 | 212.7 |
| 62.5° | 359.7 | 343.6 | 327.3 | 311.2 | 295.0 | 277.0 | 257.2 | 237.3 | 217.4 | 197.5 | 187.7 |
| 65° | 314.1 | 297.7 | 281.2 | 264.9 | 248.5 | 231.2 | 213.0 | 194.8 | 176.6 | 158.4 | 151.5 |
| 67.5° | 270.0 | 253.7 | 237.5 | 221.2 | 204.9 | 188.6 | 172.2 | 155.9 | 139.5 | 123.1 | 119.9 |
| 70° | 239.4 | 223.6 | 207.9 | 192.1 | 176.3 | 161.4 | 147.5 | 133.5 | 119.6 | 105.6 | 103.5 |
| 72.5° | 210.3 | 195.1 | 180.0 | 164.9 | 149.7 | 136.6 | 125.4 | 114.1 | 103.0 | 91.8 | 90.1 |
| 75° | 167.5 | 153.4 | 139.2 | 125.0 | 110.8 | 100.3 | 93.5 | 86.6 | 79.7 | 72.9 | 71.4 |
| 77.5° | 125.5 | 113.0 | 100.6 | 88.2 | 75.8 | 67.9 | 64.6 | 61.3 | 58.0 | 54.7 | 53.8 |
| 80° | 99.2 | 88.9 | 78.6 | 68.3 | 58.0 | 51.8 | 49.8 | 47.7 | 45.7 | 43.7 | 42.9 |
| 82.5° | 75.2 | 67.1 | 59.1 | 51.0 | 43.0 | 38.3 | 36.9 | 35.5 | 34.2 | 32.8 | 32.3 |
| 85° | 39.1 | 34.9 | 30.7 | 26.4 | 22.1 | 19.7 | 19.1 | 18.5 | 17.9 | 17.3 | 17.3 |
| 87.5° | 11.8 | 10.9 | 10.0 | 9.1 | 8.2 | 7.9 | 8.2 | 8.5 | 8.8 | 9.1 | 9.1 |
| 90° | 0.8 | 2.8 | 4.8 | 6.8 | 8.7 | 10.5 | 11.9 | 13.4 | 14.8 | 16.3 | 17.2 |
| 92.5° | 16.4 | 16.2 | 16.1 | 15.9 | 15.7 | 16.0 | 16.8 | 17.5 | 18.2 | 18.9 | 19.4 |
| 95° | 53.0 | 47.0 | 41.0 | 35.0 | 29.1 | 26.7 | 28.0 | 29.2 | 30.5 | 31.7 | 32.6 |
| 97.5° | 105.0 | 88.2 | 71.4 | 54.6 | 37.7 | 30.8 | 33.7 | 36.6 | 39.6 | 42.5 | 43.2 |
| 100° | 144.2 | 119.3 | 94.5 | 69.7 | 44.9 | 34.2 | 37.2 | 40.3 | 43.3 | 46.5 | 47.9 |
| 102.5° | 187.2 | 181.9 | 176.6 | 171.4 | 166.1 | 150.7 | 124.9 | 99.2 | 73.5 | 47.7 | 49.6 |
| 105° | 247.5 | 253.0 | 258.4 | 263.9 | 269.3 | 247.3 | 197.9 | 148.5 | 99.1 | 49.7 | 51.6 |
| 107.5° | 316.5 | 320.8 | 325.2 | 329.6 | 334.0 | 306.6 | 247.3 | 188.1 | 128.8 | 69.6 | 67.5 |
| 110° | 360.8 | 364.6 | 368.4 | 372.2 | 375.9 | 351.7 | 299.4 | 247.1 | 194.8 | 142.5 | 124.4 |



TEST NUMBER: P331696-940

CATALOG NUMBER: SA2XXRDIP-C675D925U940-4F0-1E-UDD-F

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 402.4 | 405.8 | 409.2 | 412.6 | 415.9 | 411.2 | 398.2 | 385.3 | 372.4 | 359.4 | 293.5 |
| 115° | 468.2 | 471.4 | 474.4 | 477.5 | 480.5 | 484.4 | 488.9 | 493.5 | 497.9 | 502.5 | 418.7 |
| 117.5° | 527.1 | 530.5 | 534.0 | 537.4 | 540.8 | 544.1 | 547.2 | 550.4 | 553.5 | 556.5 | 536.3 |
| 120° | 570.1 | 572.7 | 575.5 | 578.2 | 580.9 | 583.9 | 587.2 | 590.4 | 593.7 | 596.9 | 599.1 |
| 122.5° | 606.5 | 609.4 | 612.2 | 615.1 | 618.0 | 621.2 | 624.7 | 628.3 | 631.9 | 635.4 | 636.7 |
| 125° | 662.1 | 664.4 | 666.8 | 669.1 | 671.5 | 674.4 | 677.9 | 681.3 | 684.7 | 688.1 | 689.5 |
| 127.5° | 712.4 | 715.1 | 717.6 | 720.2 | 722.8 | 725.4 | 728.0 | 730.6 | 733.2 | 735.8 | 737.5 |
| 130° | 744.4 | 747.3 | 750.1 | 753.0 | 755.9 | 758.4 | 760.4 | 762.3 | 764.4 | 766.3 | 768.3 |
| 132.5° | 776.9 | 779.4 | 781.9 | 784.3 | 786.8 | 789.0 | 791.0 | 793.0 | 795.0 | 796.9 | 798.7 |
| 135° | 819.3 | 822.2 | 825.1 | 828.0 | 830.9 | 833.1 | 834.7 | 836.4 | 838.0 | 839.6 | 841.4 |
| 137.5° | 862.1 | 864.2 | 866.2 | 868.2 | 870.2 | 872.2 | 874.0 | 875.8 | 877.7 | 879.6 | 881.3 |
| 140° | 890.1 | 891.6 | 893.0 | 894.5 | 895.9 | 897.7 | 899.6 | 901.6 | 903.7 | 905.6 | 907.2 |
| 142.5° | 913.6 | 914.9 | 916.2 | 917.5 | 918.8 | 920.6 | 922.8 | 925.1 | 927.5 | 929.7 | 931.2 |
| 145° | 950.4 | 950.2 | 950.0 | 949.9 | 949.7 | 951.1 | 954.2 | 957.3 | 960.4 | 963.4 | 964.7 |
| 147.5° | 982.5 | 981.8 | 981.1 | 980.4 | 979.7 | 980.9 | 983.9 | 987.0 | 990.1 | 993.1 | 994.0 |
| 150° | 1003.4 | 1002.1 | 1000.8 | 999.5 | 998.3 | 999.1 | 1002.0 | 1004.9 | 1007.8 | 1010.7 | 1011.7 |
| 152.5° | 1020.9 | 1019.5 | 1018.1 | 1016.7 | 1015.3 | 1015.9 | 1018.7 | 1021.5 | 1024.2 | 1027.0 | 1028.1 |
| 155° | 1046.5 | 1044.9 | 1043.2 | 1041.6 | 1040.0 | 1040.3 | 1042.4 | 1044.6 | 1046.8 | 1048.9 | 1050.0 |
| 157.5° | 1066.5 | 1065.1 | 1063.8 | 1062.4 | 1061.0 | 1061.1 | 1062.7 | 1064.2 | 1065.7 | 1067.2 | 1068.4 |
| 160° | 1078.3 | 1077.2 | 1076.1 | 1075.0 | 1073.9 | 1073.9 | 1075.0 | 1076.1 | 1077.2 | 1078.3 | 1079.3 |
| 162.5° | 1088.7 | 1087.6 | 1086.5 | 1085.4 | 1084.3 | 1084.2 | 1085.2 | 1086.1 | 1087.1 | 1088.1 | 1089.2 |
| 165° | 1102.7 | 1101.6 | 1100.5 | 1099.4 | 1098.3 | 1098.1 | 1098.6 | 1099.1 | 1099.7 | 1100.3 | 1101.5 |
| 167.5° | 1113.1 | 1112.1 | 1111.0 | 1109.8 | 1108.8 | 1108.5 | 1109.0 | 1109.5 | 1110.0 | 1110.5 | 1111.8 |
| 170° | 1119.0 | 1117.8 | 1116.8 | 1115.7 | 1114.6 | 1114.3 | 1114.6 | 1115.0 | 1115.4 | 1115.7 | 1117.0 |
| 172.5° | 1122.8 | 1121.8 | 1120.7 | 1119.6 | 1118.6 | 1118.2 | 1118.6 | 1118.9 | 1119.3 | 1119.6 | 1120.9 |
| 175° | 1127.9 | 1126.7 | 1125.4 | 1124.1 | 1122.8 | 1122.4 | 1122.8 | 1123.1 | 1123.5 | 1123.8 | 1125.2 |
| 177.5° | 1128.7 | 1127.7 | 1126.8 | 1125.7 | 1124.7 | 1124.3 | 1124.4 | 1124.5 | 1124.7 | 1124.8 | 1125.9 |
| 180° | 1125.5 | 1125.5 | 1125.5 | 1125.5 | 1125.5 | 1125.5 | 1125.5 | 1125.5 | 1125.5 | 1125.5 | 1125.5 |



TEST NUMBER: P331696-940

CATALOG NUMBER: SA2XXRDIP-C675D925U940-4F0-1E-UDD-F

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1005.8 | 1005.8 | 1005.8 | 1005.8 | 1005.8 | 1005.8 | 1005.8 | 1005.8 |
| 2.5° | 1001.1 | 1002.7 | 1004.3 | 1005.0 | 1004.7 | 1004.3 | 1004.1 | 1003.7 |
| 5° | 993.1 | 995.0 | 996.8 | 997.4 | 996.8 | 996.1 | 995.6 | 995.0 |
| 7.5° | 977.0 | 977.6 | 978.1 | 977.9 | 976.8 | 975.8 | 974.7 | 973.7 |
| 10° | 961.0 | 960.4 | 959.7 | 958.9 | 957.6 | 956.4 | 955.2 | 954.0 |
| 12.5° | 942.5 | 941.5 | 940.3 | 938.8 | 936.7 | 934.8 | 932.7 | 930.7 |
| 15° | 908.1 | 904.2 | 900.4 | 897.4 | 895.5 | 893.4 | 891.4 | 889.4 |
| 17.5° | 869.2 | 864.5 | 860.0 | 856.0 | 852.5 | 849.0 | 845.5 | 842.0 |
| 20° | 842.0 | 836.9 | 831.8 | 827.1 | 822.6 | 818.1 | 813.7 | 809.2 |
| 22.5° | 812.1 | 805.6 | 799.1 | 794.2 | 790.8 | 787.5 | 784.2 | 780.9 |
| 25° | 762.6 | 754.3 | 746.0 | 740.4 | 737.4 | 734.3 | 731.3 | 728.3 |
| 27.5° | 715.4 | 705.8 | 696.2 | 688.8 | 684.0 | 679.2 | 674.4 | 669.6 |
| 30° | 682.2 | 671.8 | 661.5 | 653.6 | 648.1 | 642.7 | 637.2 | 631.8 |
| 32.5° | 648.6 | 636.9 | 625.1 | 616.6 | 611.4 | 606.4 | 601.2 | 596.1 |
| 35° | 596.3 | 583.5 | 570.8 | 562.1 | 557.7 | 553.2 | 548.8 | 544.4 |
| 37.5° | 545.2 | 531.2 | 517.2 | 507.6 | 502.5 | 497.4 | 492.3 | 487.2 |
| 40° | 511.0 | 496.7 | 482.3 | 472.5 | 467.3 | 462.0 | 456.7 | 451.5 |
| 42.5° | 476.6 | 461.7 | 446.9 | 436.9 | 431.9 | 426.8 | 421.7 | 416.5 |
| 45° | 426.4 | 412.1 | 397.7 | 388.1 | 383.3 | 378.4 | 373.5 | 368.6 |
| 47.5° | 377.6 | 363.4 | 349.0 | 339.7 | 335.3 | 330.9 | 326.5 | 322.1 |
| 50° | 346.3 | 332.3 | 318.3 | 309.2 | 305.0 | 300.7 | 296.5 | 292.2 |
| 52.5° | 316.6 | 303.1 | 289.6 | 281.0 | 277.1 | 273.1 | 269.2 | 265.3 |
| 55° | 271.6 | 259.4 | 247.3 | 239.3 | 235.5 | 231.6 | 227.7 | 223.9 |
| 57.5° | 230.6 | 219.5 | 208.4 | 201.2 | 198.0 | 194.7 | 191.5 | 188.2 |
| 60° | 202.4 | 192.1 | 181.7 | 175.0 | 171.7 | 168.5 | 165.2 | 162.0 |
| 62.5° | 177.9 | 168.0 | 158.2 | 152.3 | 150.3 | 148.5 | 146.5 | 144.5 |
| 65° | 144.6 | 137.8 | 130.9 | 127.2 | 126.5 | 125.9 | 125.3 | 124.8 |
| 67.5° | 116.7 | 113.6 | 110.5 | 108.5 | 107.9 | 107.3 | 106.6 | 105.9 |
| 70° | 101.6 | 99.5 | 97.5 | 96.1 | 95.2 | 94.4 | 93.6 | 92.8 |
| 72.5° | 88.4 | 86.7 | 85.0 | 83.9 | 83.4 | 82.9 | 82.4 | 81.9 |
| 75° | 70.0 | 68.6 | 67.1 | 66.3 | 66.2 | 66.0 | 65.7 | 65.5 |
| 77.5° | 53.0 | 52.2 | 51.4 | 50.8 | 50.5 | 50.2 | 49.8 | 49.5 |
| 80° | 42.1 | 41.3 | 40.5 | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 |
| 82.5° | 31.8 | 31.3 | 30.9 | 30.6 | 30.6 | 30.6 | 30.6 | 30.6 |
| 85° | 17.3 | 17.3 | 17.3 | 17.3 | 17.3 | 17.3 | 17.3 | 17.3 |
| 87.5° | 9.1 | 9.2 | 9.2 | 9.2 | 9.3 | 9.4 | 9.5 | 9.5 |
| 90° | 18.1 | 19.0 | 19.9 | 20.5 | 20.9 | 21.2 | 21.7 | 22.0 |
| 92.5° | 19.8 | 20.3 | 20.8 | 21.1 | 21.3 | 21.6 | 21.8 | 22.0 |
| 95° | 33.5 | 34.5 | 35.4 | 35.8 | 35.6 | 35.4 | 35.2 | 35.0 |
| 97.5° | 44.0 | 44.7 | 45.4 | 45.8 | 46.1 | 46.3 | 46.5 | 46.7 |
| 100° | 49.3 | 50.7 | 52.3 | 53.1 | 53.5 | 53.9 | 54.2 | 54.6 |
| 102.5° | 51.5 | 53.4 | 55.3 | 56.4 | 57.0 | 57.4 | 58.0 | 58.5 |
| 105° | 53.7 | 55.6 | 57.6 | 59.0 | 59.7 | 60.5 | 61.2 | 61.9 |
| 107.5° | 65.5 | 63.5 | 61.4 | 60.8 | 61.5 | 62.2 | 63.0 | 63.7 |
| 110° | 106.3 | 88.2 | 70.1 | 61.4 | 62.2 | 62.9 | 63.6 | 64.4 |



TEST NUMBER: P331696-940

CATALOG NUMBER: SA2XXRDIP-C675D925U940-4F0-1E-UDD-F

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 227.5 | 161.4 | 95.4 | 62.7 | 63.2 | 63.8 | 64.4 | 65.0 |
| 115° | 334.9 | 251.1 | 167.3 | 118.9 | 105.8 | 92.8 | 79.8 | 66.8 |
| 117.5° | 516.0 | 495.8 | 475.5 | 443.9 | 401.1 | 358.3 | 315.5 | 272.7 |
| 120° | 601.3 | 603.5 | 605.6 | 594.5 | 570.1 | 545.6 | 521.2 | 496.8 |
| 122.5° | 638.0 | 639.3 | 640.6 | 638.9 | 634.2 | 629.4 | 624.6 | 619.9 |
| 125° | 690.7 | 692.0 | 693.2 | 694.1 | 694.6 | 695.2 | 695.8 | 696.3 |
| 127.5° | 739.4 | 741.3 | 743.2 | 744.0 | 744.2 | 744.3 | 744.4 | 744.5 |
| 130° | 770.3 | 772.3 | 774.3 | 775.3 | 775.1 | 774.8 | 774.6 | 774.5 |
| 132.5° | 800.4 | 802.1 | 803.8 | 804.5 | 804.3 | 804.1 | 804.0 | 803.8 |
| 135° | 843.3 | 845.1 | 846.9 | 847.6 | 847.2 | 846.9 | 846.5 | 846.1 |
| 137.5° | 883.1 | 884.8 | 886.6 | 887.3 | 886.6 | 886.0 | 885.4 | 884.8 |
| 140° | 908.8 | 910.5 | 912.1 | 912.5 | 911.6 | 910.7 | 909.8 | 908.8 |
| 142.5° | 932.6 | 934.2 | 935.7 | 935.9 | 935.0 | 934.2 | 933.3 | 932.3 |
| 145° | 966.0 | 967.2 | 968.5 | 968.7 | 967.8 | 966.9 | 966.0 | 965.1 |
| 147.5° | 995.0 | 995.9 | 996.8 | 996.9 | 996.1 | 995.4 | 994.6 | 993.9 |
| 150° | 1012.8 | 1014.0 | 1015.0 | 1015.1 | 1014.2 | 1013.3 | 1012.4 | 1011.5 |
| 152.5° | 1029.1 | 1030.2 | 1031.3 | 1031.3 | 1030.0 | 1028.9 | 1027.7 | 1026.4 |
| 155° | 1051.1 | 1052.2 | 1053.3 | 1053.1 | 1051.7 | 1050.2 | 1048.7 | 1047.3 |
| 157.5° | 1069.6 | 1070.9 | 1072.1 | 1072.0 | 1070.6 | 1069.2 | 1067.7 | 1066.4 |
| 160° | 1080.4 | 1081.6 | 1082.6 | 1082.5 | 1081.2 | 1080.0 | 1078.7 | 1077.5 |
| 162.5° | 1090.5 | 1091.7 | 1093.0 | 1092.8 | 1091.3 | 1089.7 | 1088.2 | 1086.5 |
| 165° | 1102.8 | 1104.0 | 1105.3 | 1105.3 | 1104.0 | 1102.8 | 1101.5 | 1100.3 |
| 167.5° | 1113.0 | 1114.3 | 1115.6 | 1115.4 | 1113.7 | 1112.1 | 1110.5 | 1108.8 |
| 170° | 1118.3 | 1119.5 | 1120.8 | 1120.6 | 1119.0 | 1117.3 | 1115.7 | 1114.1 |
| 172.5° | 1122.1 | 1123.5 | 1124.7 | 1124.5 | 1122.8 | 1121.2 | 1119.6 | 1118.0 |
| 175° | 1126.4 | 1127.7 | 1128.9 | 1128.6 | 1126.9 | 1125.1 | 1123.2 | 1121.4 |
| 177.5° | 1126.9 | 1127.9 | 1128.9 | 1128.7 | 1127.5 | 1126.1 | 1124.8 | 1123.6 |
| 180° | 1125.5 | 1125.5 | 1125.5 | 1125.5 | 1125.5 | 1125.5 | 1125.5 | 1125.5 |

(END OF REPORT)