

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: P331988-830

Luminaire Tested: **S123DIP-S775D1025U830-4F0-1E-UDD-F**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331988-830
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-5,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S123DIP-S775D1025U830-4F0-1E-UDD-F
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 775 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
UPLIGHT 1025 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6851.9 lumens
Efficiency: N/A
Efficacy: 131.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.18 / 1.31
Luminous Opening: Rectangular (W 0.25' x L: 4' x H: 0')
CIE Type: General Diffuse

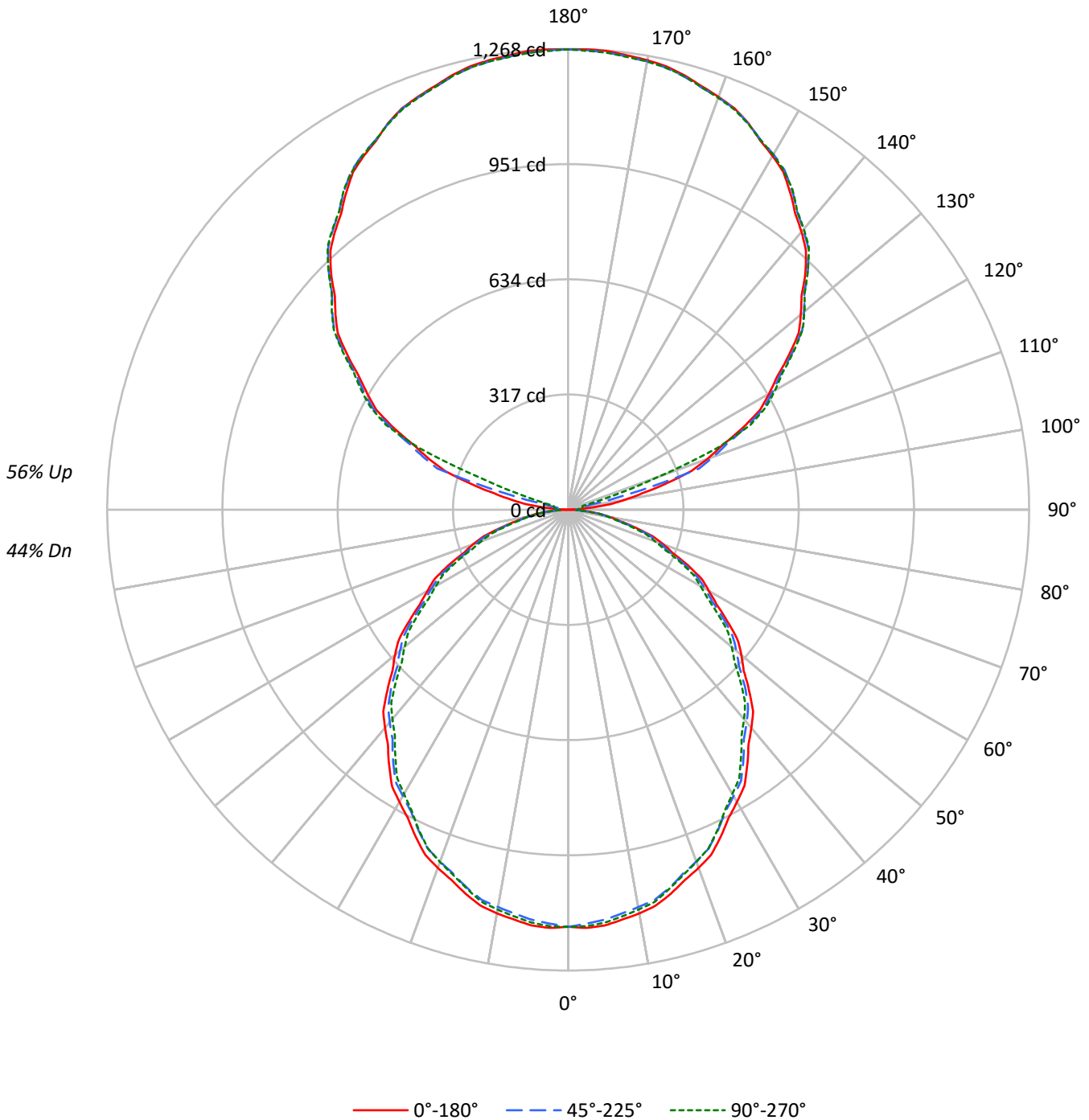
Input Watts (W): 52
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P331988-830

CATALOG NUMBER: S123DIP-S775D1025U830-4F0-1E-UDD-F

Luminous Intensity Polar Plot





TEST NUMBER: P331988-830

CATALOG NUMBER: S123DIP-S775D1025U830-4F0-1E-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 | 80 | 80 | 80 | 64 | 64 | 64 | 50 | 50 | 50 | 44 | | | | 44 |
| 1 | 96 | 92 | 88 | 85 | 88 | 84 | 81 | 78 | 70 | 67 | 65 | 57 | 55 | 53 | 44 | 43 | 42 | | | | 37 | |
| 2 | 88 | 80 | 74 | 69 | 80 | 74 | 68 | 64 | 61 | 57 | 54 | 50 | 47 | 45 | 39 | 37 | 36 | | | | 31 | |
| 3 | 80 | 71 | 63 | 57 | 73 | 65 | 58 | 53 | 54 | 49 | 45 | 44 | 40 | 38 | 35 | 32 | 30 | | | | 26 | |
| 4 | 73 | 62 | 55 | 49 | 67 | 57 | 50 | 45 | 48 | 43 | 39 | 39 | 35 | 32 | 31 | 28 | 26 | | | | 22 | |
| 5 | 67 | 55 | 47 | 41 | 61 | 51 | 44 | 39 | 43 | 37 | 33 | 35 | 31 | 28 | 28 | 25 | 23 | | | | 19 | |
| 6 | 62 | 50 | 42 | 36 | 56 | 46 | 39 | 34 | 38 | 33 | 29 | 32 | 28 | 24 | 25 | 22 | 20 | | | | 17 | |
| 7 | 57 | 45 | 37 | 31 | 52 | 41 | 34 | 29 | 35 | 29 | 25 | 29 | 25 | 22 | 23 | 20 | 18 | | | | 15 | |
| 8 | 53 | 41 | 33 | 28 | 48 | 38 | 31 | 26 | 32 | 26 | 23 | 26 | 22 | 19 | 21 | 18 | 16 | | | | 13 | |
| 9 | 49 | 37 | 30 | 25 | 45 | 34 | 28 | 23 | 29 | 24 | 20 | 24 | 20 | 17 | 19 | 16 | 14 | | | | 12 | |
| 10 | 46 | 34 | 27 | 22 | 42 | 31 | 25 | 21 | 27 | 22 | 18 | 22 | 18 | 16 | 18 | 15 | 13 | | | | 11 | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 12355 | 12355 | 12355 |
| 5° | 12413 | 12241 | 12327 |
| 10° | 12329 | 12136 | 12211 |
| 15° | 12186 | 11999 | 12021 |
| 20° | 12016 | 11802 | 11813 |
| 25° | 11792 | 11569 | 11545 |
| 30° | 11543 | 11309 | 11225 |
| 35° | 11284 | 11037 | 10893 |
| 40° | 11011 | 10732 | 10568 |
| 45° | 10712 | 10456 | 10201 |
| 50° | 10412 | 10114 | 9833 |
| 55° | 10021 | 9760 | 9466 |
| 60° | 9623 | 9347 | 9052 |
| 65° | 9276 | 8899 | 8621 |
| 70° | 8759 | 8387 | 8013 |
| 75° | 8006 | 7719 | 7390 |
| 80° | 7221 | 6912 | 6856 |
| 85° | 6336 | 6101 | 5854 |



TEST NUMBER: P331988-830

CATALOG NUMBER: S123DIP-S775D1025U830-4F0-1E-UDD-F

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 108.1 | 1.6 |
| 10°-20° | 305.3 | 4.5 |
| 20°-30° | 451.0 | 6.6 |
| 30°-40° | 526.8 | 7.7 |
| 40°-50° | 529.6 | 7.7 |
| 50°-60° | 465.2 | 6.8 |
| 60°-70° | 346.6 | 5.1 |
| 70°-80° | 197.5 | 2.9 |
| 80°-90° | 60.2 | 0.9 |
| 90°-100° | 46.0 | 0.7 |
| 100°-110° | 219.4 | 3.2 |
| 110°-120° | 527.0 | 7.7 |
| 120°-130° | 671.1 | 9.8 |
| 130°-140° | 717.1 | 10.5 |
| 140°-150° | 670.6 | 9.8 |
| 150°-160° | 540.9 | 7.9 |
| 160°-170° | 349.1 | 5.1 |
| 170°-180° | 120.3 | 1.8 |
| 0°-30° | 864.4 | 12.6 |
| 0°-40° | 1391.1 | 20.3 |
| 0°-60° | 2385.9 | 34.8 |
| 0°-90° | 2990.2 | 43.6 |
| 90°-120° | 792.5 | 11.6 |
| 90°-150° | 2851.3 | 41.6 |
| 90°-180° | 3862.0 | 56.4 |
| 0°-180° | 6851.9 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 1148 | 1148 | 1148 | 1148 | 1148 | |
| 5° | 1149 | 1143 | 1133 | 1142 | 1141 | 109 |
| 15° | 1094 | 1089 | 1077 | 1084 | 1079 | 308 |
| 25° | 993 | 987 | 974 | 975 | 972 | 457 |
| 35° | 859 | 852 | 840 | 834 | 829 | 537 |
| 45° | 704 | 699 | 687 | 675 | 670 | 543 |
| 55° | 534 | 532 | 520 | 510 | 504 | 478 |
| 65° | 364 | 359 | 349 | 342 | 338 | 359 |
| 75° | 192 | 189 | 186 | 181 | 178 | 206 |
| 85° | 51 | 50 | 49 | 48 | 47 | 56 |
| 90° | 1 | 10 | 23 | 26 | 28 | 5 |
| 95° | 57 | 22 | 29 | 35 | 36 | 71 |
| 105° | 280 | 285 | 206 | 49 | 41 | 297 |
| 115° | 526 | 532 | 540 | 549 | 553 | 519 |
| 125° | 741 | 749 | 753 | 754 | 756 | 662 |
| 135° | 923 | 928 | 932 | 935 | 932 | 710 |
| 145° | 1065 | 1071 | 1074 | 1075 | 1075 | 666 |
| 155° | 1173 | 1171 | 1172 | 1176 | 1171 | 540 |
| 165° | 1237 | 1234 | 1233 | 1240 | 1234 | 349 |
| 175° | 1266 | 1262 | 1262 | 1268 | 1262 | 120 |
| 180° | 1266 | 1266 | 1266 | 1266 | 1266 | |



TEST NUMBER: P331988-830

CATALOG NUMBER: S123DIP-S775D1025U830-4F0-1E-UDD-F

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1147.8 | 1147.8 | 1147.8 | 1147.8 | 1147.8 | 1147.8 | 1147.8 | 1147.8 | 1147.8 | 1147.8 | 1147.8 |
| 2.5° | 1151.7 | 1151.0 | 1150.4 | 1149.6 | 1149.0 | 1147.6 | 1145.7 | 1143.8 | 1141.8 | 1139.9 | 1141.6 |
| 5° | 1148.8 | 1147.6 | 1146.6 | 1145.5 | 1144.3 | 1142.6 | 1140.2 | 1137.8 | 1135.4 | 1132.9 | 1135.2 |
| 7.5° | 1137.6 | 1136.4 | 1135.3 | 1134.3 | 1133.1 | 1131.3 | 1128.8 | 1126.3 | 1123.8 | 1121.3 | 1123.3 |
| 10° | 1128.0 | 1126.9 | 1125.9 | 1124.7 | 1123.7 | 1121.7 | 1118.8 | 1116.0 | 1113.1 | 1110.3 | 1112.3 |
| 12.5° | 1115.4 | 1114.5 | 1113.6 | 1112.7 | 1111.7 | 1109.9 | 1107.3 | 1104.6 | 1101.9 | 1099.2 | 1100.7 |
| 15° | 1093.5 | 1092.6 | 1091.7 | 1090.9 | 1090.0 | 1088.2 | 1085.2 | 1082.4 | 1079.6 | 1076.8 | 1078.5 |
| 17.5° | 1068.0 | 1066.9 | 1065.7 | 1064.6 | 1063.5 | 1061.5 | 1058.7 | 1055.7 | 1052.9 | 1050.1 | 1051.3 |
| 20° | 1049.0 | 1047.7 | 1046.5 | 1045.2 | 1043.9 | 1041.7 | 1038.9 | 1036.0 | 1033.2 | 1030.3 | 1031.2 |
| 22.5° | 1027.7 | 1026.4 | 1025.1 | 1023.8 | 1022.5 | 1020.4 | 1017.6 | 1014.7 | 1011.9 | 1009.0 | 1009.7 |
| 25° | 992.9 | 991.6 | 990.2 | 988.9 | 987.6 | 985.5 | 982.6 | 979.8 | 976.9 | 974.1 | 974.3 |
| 27.5° | 955.5 | 954.2 | 953.0 | 951.7 | 950.5 | 948.3 | 945.2 | 942.2 | 939.1 | 935.9 | 936.1 |
| 30° | 928.7 | 927.6 | 926.5 | 925.4 | 924.3 | 922.2 | 919.2 | 916.1 | 913.0 | 909.9 | 909.9 |
| 32.5° | 901.8 | 900.4 | 898.9 | 897.5 | 896.1 | 894.2 | 891.7 | 889.4 | 887.0 | 884.7 | 883.4 |
| 35° | 858.7 | 857.3 | 856.0 | 854.7 | 853.4 | 851.3 | 848.4 | 845.6 | 842.7 | 839.9 | 838.6 |
| 37.5° | 814.4 | 812.8 | 811.1 | 809.4 | 807.8 | 805.5 | 802.6 | 799.7 | 796.7 | 793.9 | 792.3 |
| 40° | 783.6 | 782.3 | 781.0 | 779.7 | 778.4 | 776.2 | 773.1 | 770.1 | 766.9 | 763.8 | 762.1 |
| 42.5° | 752.8 | 751.3 | 749.8 | 748.4 | 746.9 | 744.6 | 741.5 | 738.4 | 735.4 | 732.3 | 730.6 |
| 45° | 703.7 | 702.8 | 701.9 | 701.1 | 700.1 | 698.3 | 695.4 | 692.6 | 689.8 | 686.9 | 684.3 |
| 47.5° | 654.9 | 653.7 | 652.3 | 651.1 | 649.8 | 647.8 | 645.2 | 642.5 | 639.8 | 637.2 | 634.5 |
| 50° | 621.8 | 620.7 | 619.5 | 618.5 | 617.4 | 615.4 | 612.6 | 609.7 | 606.8 | 604.0 | 601.6 |
| 52.5° | 587.0 | 586.3 | 585.5 | 584.8 | 584.0 | 582.1 | 579.1 | 576.1 | 573.1 | 570.0 | 568.0 |
| 55° | 534.0 | 533.7 | 533.5 | 533.3 | 533.0 | 531.5 | 528.7 | 525.8 | 522.9 | 520.1 | 517.7 |
| 57.5° | 483.4 | 482.7 | 481.9 | 481.2 | 480.4 | 478.9 | 476.6 | 474.3 | 472.0 | 469.8 | 467.6 |
| 60° | 447.0 | 446.9 | 446.7 | 446.4 | 446.2 | 444.8 | 442.1 | 439.5 | 436.9 | 434.2 | 432.3 |
| 62.5° | 414.7 | 414.2 | 413.6 | 413.0 | 412.5 | 410.9 | 408.2 | 405.6 | 402.9 | 400.3 | 398.3 |
| 65° | 364.2 | 363.1 | 361.9 | 360.9 | 359.8 | 358.2 | 355.9 | 353.7 | 351.6 | 349.4 | 347.6 |
| 67.5° | 310.7 | 309.7 | 308.8 | 307.7 | 306.8 | 305.5 | 303.9 | 302.2 | 300.5 | 298.9 | 297.3 |
| 70° | 278.3 | 277.0 | 275.7 | 274.4 | 273.1 | 271.7 | 270.4 | 269.1 | 267.8 | 266.5 | 264.9 |
| 72.5° | 244.4 | 243.4 | 242.4 | 241.5 | 240.5 | 239.3 | 237.8 | 236.3 | 234.8 | 233.3 | 232.0 |
| 75° | 192.5 | 191.5 | 190.7 | 189.8 | 189.0 | 188.1 | 187.5 | 186.8 | 186.2 | 185.6 | 184.5 |
| 77.5° | 146.5 | 146.0 | 145.5 | 145.1 | 144.5 | 143.9 | 143.1 | 142.3 | 141.6 | 140.7 | 140.0 |
| 80° | 116.5 | 115.8 | 115.2 | 114.5 | 113.9 | 113.3 | 112.8 | 112.4 | 112.0 | 111.5 | 111.3 |
| 82.5° | 87.3 | 87.1 | 87.0 | 86.8 | 86.7 | 86.6 | 86.5 | 86.4 | 86.3 | 86.2 | 85.9 |
| 85° | 51.3 | 50.9 | 50.4 | 50.0 | 49.6 | 49.4 | 49.4 | 49.4 | 49.4 | 49.4 | 48.9 |
| 87.5° | 20.7 | 20.6 | 20.5 | 20.4 | 20.3 | 20.5 | 20.7 | 21.1 | 21.5 | 21.9 | 21.9 |
| 90° | 0.9 | 3.0 | 5.1 | 7.3 | 9.3 | 11.7 | 14.4 | 17.2 | 19.9 | 22.6 | 23.4 |
| 92.5° | 17.5 | 16.9 | 16.3 | 15.7 | 15.2 | 15.9 | 17.9 | 20.0 | 22.1 | 24.1 | 25.4 |
| 95° | 57.4 | 48.8 | 40.2 | 31.7 | 23.1 | 20.0 | 22.2 | 24.6 | 26.9 | 29.1 | 30.6 |
| 97.5° | 115.4 | 111.5 | 107.6 | 103.8 | 99.9 | 90.5 | 75.5 | 60.4 | 45.3 | 30.3 | 32.0 |
| 100° | 159.0 | 163.2 | 167.4 | 171.5 | 175.7 | 161.5 | 128.8 | 96.2 | 63.6 | 31.0 | 32.7 |
| 102.5° | 208.7 | 211.7 | 214.7 | 217.7 | 220.7 | 204.4 | 168.8 | 133.2 | 97.6 | 61.9 | 56.7 |
| 105° | 280.3 | 282.7 | 284.9 | 287.3 | 289.5 | 281.3 | 262.5 | 243.6 | 224.9 | 206.0 | 169.0 |
| 107.5° | 356.0 | 357.9 | 359.7 | 361.6 | 363.4 | 365.8 | 368.7 | 371.7 | 374.7 | 377.7 | 350.5 |
| 110° | 406.4 | 408.1 | 409.7 | 411.4 | 413.1 | 415.1 | 417.4 | 419.7 | 422.0 | 424.3 | 417.4 |



TEST NUMBER: P331988-830

CATALOG NUMBER: S123DIP-S775D1025U830-4F0-1E-UDD-F

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 454.6 | 456.1 | 457.6 | 459.1 | 460.6 | 462.5 | 464.9 | 467.1 | 469.4 | 471.7 | 471.8 |
| 115° | 525.9 | 527.2 | 528.4 | 529.7 | 530.9 | 532.5 | 534.3 | 536.2 | 538.1 | 540.0 | 542.2 |
| 117.5° | 594.9 | 596.5 | 598.0 | 599.6 | 601.2 | 602.4 | 603.3 | 604.4 | 605.3 | 606.2 | 607.9 |
| 120° | 637.8 | 639.7 | 641.6 | 643.5 | 645.4 | 646.7 | 647.2 | 647.9 | 648.6 | 649.1 | 650.8 |
| 122.5° | 681.6 | 683.1 | 684.6 | 686.2 | 687.7 | 688.9 | 689.7 | 690.5 | 691.3 | 692.0 | 693.2 |
| 125° | 741.3 | 743.0 | 744.7 | 746.4 | 748.0 | 749.3 | 750.2 | 750.9 | 751.8 | 752.6 | 753.1 |
| 127.5° | 799.3 | 801.0 | 802.7 | 804.3 | 806.0 | 807.3 | 808.3 | 809.4 | 810.3 | 811.3 | 812.0 |
| 130° | 835.5 | 837.1 | 838.8 | 840.5 | 842.2 | 843.4 | 844.2 | 845.1 | 845.8 | 846.7 | 847.5 |
| 132.5° | 870.1 | 871.8 | 873.4 | 875.1 | 876.8 | 877.9 | 878.5 | 879.2 | 880.0 | 880.6 | 881.5 |
| 135° | 922.9 | 924.2 | 925.4 | 926.7 | 927.9 | 929.0 | 929.8 | 930.7 | 931.5 | 932.4 | 932.9 |
| 137.5° | 968.1 | 969.7 | 971.3 | 972.9 | 974.4 | 975.4 | 975.9 | 976.4 | 976.9 | 977.3 | 978.3 |
| 140° | 998.2 | 999.5 | 1000.7 | 1001.9 | 1003.2 | 1004.2 | 1004.8 | 1005.4 | 1006.1 | 1006.6 | 1007.5 |
| 142.5° | 1026.1 | 1027.3 | 1028.5 | 1029.8 | 1031.0 | 1032.0 | 1032.6 | 1033.2 | 1033.9 | 1034.5 | 1035.2 |
| 145° | 1065.0 | 1066.5 | 1067.9 | 1069.4 | 1070.8 | 1071.8 | 1072.2 | 1072.6 | 1073.0 | 1073.5 | 1073.8 |
| 147.5° | 1101.6 | 1102.7 | 1103.6 | 1104.6 | 1105.5 | 1106.2 | 1106.6 | 1107.0 | 1107.5 | 1107.9 | 1108.3 |
| 150° | 1124.3 | 1124.9 | 1125.5 | 1126.1 | 1126.7 | 1127.3 | 1127.7 | 1128.1 | 1128.5 | 1129.0 | 1129.4 |
| 152.5° | 1144.5 | 1144.9 | 1145.2 | 1145.5 | 1145.8 | 1146.0 | 1146.2 | 1146.5 | 1146.8 | 1147.0 | 1147.7 |
| 155° | 1173.2 | 1172.7 | 1172.3 | 1172.0 | 1171.5 | 1171.4 | 1171.6 | 1171.8 | 1172.1 | 1172.2 | 1173.3 |
| 157.5° | 1195.3 | 1195.3 | 1195.3 | 1195.2 | 1195.2 | 1195.0 | 1194.9 | 1194.7 | 1194.5 | 1194.2 | 1195.5 |
| 160° | 1208.9 | 1208.7 | 1208.5 | 1208.3 | 1208.1 | 1207.9 | 1207.7 | 1207.5 | 1207.2 | 1207.0 | 1208.3 |
| 162.5° | 1221.7 | 1221.2 | 1220.6 | 1220.1 | 1219.6 | 1219.2 | 1219.0 | 1218.7 | 1218.5 | 1218.3 | 1219.7 |
| 165° | 1237.2 | 1236.5 | 1235.9 | 1235.3 | 1234.6 | 1234.3 | 1234.0 | 1233.8 | 1233.6 | 1233.4 | 1235.0 |
| 167.5° | 1249.2 | 1248.4 | 1247.5 | 1246.7 | 1245.9 | 1245.4 | 1245.4 | 1245.4 | 1245.4 | 1245.4 | 1247.1 |
| 170° | 1255.9 | 1255.1 | 1254.3 | 1253.5 | 1252.6 | 1252.2 | 1252.2 | 1252.2 | 1252.2 | 1252.2 | 1253.9 |
| 172.5° | 1260.5 | 1259.5 | 1258.5 | 1257.4 | 1256.5 | 1256.0 | 1256.2 | 1256.4 | 1256.5 | 1256.7 | 1258.4 |
| 175° | 1266.3 | 1265.3 | 1264.2 | 1263.2 | 1262.2 | 1261.7 | 1261.9 | 1262.2 | 1262.3 | 1262.5 | 1264.0 |
| 177.5° | 1267.8 | 1267.0 | 1266.1 | 1265.3 | 1264.5 | 1264.1 | 1264.3 | 1264.5 | 1264.6 | 1264.8 | 1266.1 |
| 180° | 1266.3 | 1266.3 | 1266.3 | 1266.3 | 1266.3 | 1266.3 | 1266.3 | 1266.3 | 1266.3 | 1266.3 | 1266.3 |



TEST NUMBER: P331988-830

CATALOG NUMBER: S123DIP-S775D1025U830-4F0-1E-UDD-F

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1147.8 | 1147.8 | 1147.8 | 1147.8 | 1147.8 | 1147.8 | 1147.8 | 1147.8 |
| 2.5° | 1143.4 | 1145.2 | 1146.9 | 1147.7 | 1147.5 | 1147.4 | 1147.2 | 1147.0 |
| 5° | 1137.4 | 1139.5 | 1141.8 | 1142.6 | 1142.2 | 1141.8 | 1141.3 | 1140.9 |
| 7.5° | 1125.3 | 1127.3 | 1129.3 | 1130.1 | 1129.8 | 1129.5 | 1129.3 | 1129.1 |
| 10° | 1114.3 | 1116.2 | 1118.1 | 1119.0 | 1118.5 | 1118.0 | 1117.7 | 1117.2 |
| 12.5° | 1102.1 | 1103.5 | 1105.0 | 1105.6 | 1105.3 | 1105.0 | 1104.8 | 1104.6 |
| 15° | 1080.2 | 1081.9 | 1083.7 | 1083.9 | 1082.6 | 1081.3 | 1080.1 | 1078.7 |
| 17.5° | 1052.5 | 1053.8 | 1055.0 | 1055.4 | 1054.9 | 1054.4 | 1054.0 | 1053.5 |
| 20° | 1032.1 | 1032.9 | 1033.9 | 1034.0 | 1033.3 | 1032.6 | 1032.0 | 1031.3 |
| 22.5° | 1010.4 | 1011.2 | 1011.8 | 1011.7 | 1011.0 | 1010.1 | 1009.3 | 1008.4 |
| 25° | 974.5 | 974.8 | 975.0 | 974.8 | 974.1 | 973.5 | 972.8 | 972.1 |
| 27.5° | 936.3 | 936.5 | 936.7 | 936.3 | 935.6 | 934.7 | 933.9 | 933.0 |
| 30° | 909.9 | 909.9 | 909.9 | 909.2 | 907.7 | 906.1 | 904.6 | 903.1 |
| 32.5° | 882.2 | 881.0 | 879.8 | 878.7 | 877.9 | 877.0 | 876.2 | 875.4 |
| 35° | 837.3 | 835.9 | 834.6 | 833.4 | 832.3 | 831.2 | 830.1 | 829.0 |
| 37.5° | 790.7 | 789.1 | 787.6 | 786.5 | 785.7 | 785.0 | 784.3 | 783.6 |
| 40° | 760.3 | 758.7 | 756.9 | 755.5 | 754.7 | 753.8 | 752.9 | 752.1 |
| 42.5° | 728.8 | 727.0 | 725.3 | 724.0 | 723.1 | 722.2 | 721.3 | 720.5 |
| 45° | 681.6 | 679.0 | 676.4 | 674.5 | 673.4 | 672.3 | 671.2 | 670.1 |
| 47.5° | 632.0 | 629.4 | 626.8 | 625.0 | 624.1 | 623.1 | 622.2 | 621.1 |
| 50° | 599.2 | 596.7 | 594.4 | 592.5 | 591.2 | 589.8 | 588.5 | 587.2 |
| 52.5° | 565.9 | 563.8 | 561.8 | 560.2 | 558.8 | 557.5 | 556.2 | 554.9 |
| 55° | 515.3 | 512.8 | 510.5 | 508.7 | 507.6 | 506.5 | 505.4 | 504.4 |
| 57.5° | 465.4 | 463.4 | 461.2 | 459.5 | 458.2 | 456.9 | 455.6 | 454.4 |
| 60° | 430.3 | 428.3 | 426.3 | 424.8 | 423.7 | 422.6 | 421.5 | 420.5 |
| 62.5° | 396.3 | 394.4 | 392.4 | 391.1 | 390.3 | 389.6 | 388.8 | 388.0 |
| 65° | 345.8 | 344.1 | 342.3 | 341.1 | 340.4 | 339.8 | 339.1 | 338.5 |
| 67.5° | 295.8 | 294.3 | 292.7 | 291.4 | 290.6 | 289.6 | 288.7 | 287.8 |
| 70° | 263.4 | 261.8 | 260.3 | 259.0 | 257.9 | 256.8 | 255.7 | 254.6 |
| 72.5° | 230.5 | 229.2 | 227.9 | 226.9 | 226.3 | 225.7 | 225.2 | 224.6 |
| 75° | 183.3 | 182.3 | 181.2 | 180.3 | 179.6 | 179.0 | 178.3 | 177.7 |
| 77.5° | 139.2 | 138.5 | 137.7 | 137.4 | 137.4 | 137.4 | 137.4 | 137.4 |
| 80° | 111.1 | 110.8 | 110.7 | 110.6 | 110.6 | 110.6 | 110.6 | 110.6 |
| 82.5° | 85.5 | 85.1 | 84.6 | 84.4 | 84.3 | 84.1 | 83.9 | 83.7 |
| 85° | 48.4 | 48.1 | 47.6 | 47.4 | 47.4 | 47.4 | 47.4 | 47.4 |
| 87.5° | 21.9 | 21.9 | 21.9 | 21.9 | 22.0 | 22.1 | 22.1 | 22.2 |
| 90° | 24.2 | 25.1 | 25.9 | 26.6 | 27.0 | 27.4 | 27.8 | 28.2 |
| 92.5° | 26.8 | 28.1 | 29.4 | 30.3 | 30.4 | 30.7 | 31.0 | 31.2 |
| 95° | 32.0 | 33.6 | 35.1 | 35.7 | 35.7 | 35.7 | 35.7 | 35.7 |
| 97.5° | 33.6 | 35.3 | 36.9 | 37.9 | 38.2 | 38.4 | 38.5 | 38.7 |
| 100° | 34.4 | 36.1 | 37.7 | 38.6 | 38.9 | 39.1 | 39.3 | 39.5 |
| 102.5° | 51.6 | 46.4 | 41.2 | 38.7 | 39.1 | 39.5 | 39.9 | 40.2 |
| 105° | 132.1 | 95.0 | 58.1 | 39.7 | 40.2 | 40.5 | 41.0 | 41.4 |
| 107.5° | 323.4 | 296.2 | 269.1 | 241.6 | 213.7 | 185.8 | 157.9 | 130.0 |
| 110° | 410.5 | 403.6 | 396.7 | 378.3 | 348.4 | 318.5 | 288.6 | 258.7 |



TEST NUMBER: P331988-830

CATALOG NUMBER: S123DIP-S775D1025U830-4F0-1E-UDD-F

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 471.9 | 472.1 | 472.2 | 469.1 | 462.8 | 456.5 | 450.2 | 443.8 |
| 115° | 544.2 | 546.3 | 548.4 | 549.9 | 550.6 | 551.5 | 552.3 | 553.2 |
| 117.5° | 609.6 | 611.2 | 612.9 | 613.9 | 614.1 | 614.2 | 614.3 | 614.5 |
| 120° | 652.5 | 654.1 | 655.8 | 656.7 | 656.7 | 656.7 | 656.7 | 656.7 |
| 122.5° | 694.4 | 695.6 | 696.7 | 697.4 | 697.6 | 697.8 | 697.9 | 698.0 |
| 125° | 753.5 | 753.8 | 754.3 | 754.7 | 755.2 | 755.5 | 756.0 | 756.4 |
| 127.5° | 812.7 | 813.3 | 814.0 | 814.2 | 813.7 | 813.3 | 812.8 | 812.5 |
| 130° | 848.4 | 849.2 | 850.1 | 850.3 | 849.9 | 849.4 | 849.0 | 848.6 |
| 132.5° | 882.2 | 883.1 | 883.9 | 884.0 | 883.4 | 882.9 | 882.3 | 881.7 |
| 135° | 933.6 | 934.2 | 934.8 | 934.8 | 934.2 | 933.6 | 932.9 | 932.4 |
| 137.5° | 979.3 | 980.3 | 981.3 | 981.6 | 981.2 | 980.8 | 980.3 | 980.0 |
| 140° | 1008.3 | 1009.2 | 1010.0 | 1010.2 | 1009.7 | 1009.4 | 1009.0 | 1008.5 |
| 142.5° | 1035.9 | 1036.5 | 1037.2 | 1037.2 | 1036.6 | 1036.0 | 1035.5 | 1034.9 |
| 145° | 1074.3 | 1074.7 | 1075.2 | 1075.3 | 1075.3 | 1075.3 | 1075.3 | 1075.3 |
| 147.5° | 1108.7 | 1109.1 | 1109.6 | 1109.3 | 1108.3 | 1107.4 | 1106.4 | 1105.4 |
| 150° | 1129.8 | 1130.2 | 1130.7 | 1130.5 | 1129.9 | 1129.3 | 1128.6 | 1128.0 |
| 152.5° | 1148.5 | 1149.2 | 1150.0 | 1149.9 | 1149.0 | 1148.0 | 1147.1 | 1146.0 |
| 155° | 1174.3 | 1175.4 | 1176.4 | 1176.3 | 1175.1 | 1173.8 | 1172.5 | 1171.3 |
| 157.5° | 1196.7 | 1198.0 | 1199.3 | 1199.1 | 1197.4 | 1195.8 | 1194.2 | 1192.6 |
| 160° | 1209.6 | 1210.8 | 1212.0 | 1211.9 | 1210.5 | 1209.0 | 1207.6 | 1206.1 |
| 162.5° | 1221.2 | 1222.6 | 1224.0 | 1224.1 | 1222.8 | 1221.4 | 1220.2 | 1218.9 |
| 165° | 1236.7 | 1238.4 | 1240.1 | 1240.2 | 1238.7 | 1237.3 | 1235.8 | 1234.4 |
| 167.5° | 1248.8 | 1250.5 | 1252.1 | 1252.1 | 1250.5 | 1248.8 | 1247.1 | 1245.4 |
| 170° | 1255.6 | 1257.3 | 1258.9 | 1258.9 | 1257.3 | 1255.6 | 1253.9 | 1252.2 |
| 172.5° | 1260.1 | 1261.7 | 1263.4 | 1263.3 | 1261.5 | 1259.6 | 1257.8 | 1255.9 |
| 175° | 1265.5 | 1267.0 | 1268.4 | 1268.3 | 1266.6 | 1265.0 | 1263.3 | 1261.6 |
| 177.5° | 1267.4 | 1268.9 | 1270.2 | 1270.0 | 1268.3 | 1266.7 | 1265.0 | 1263.3 |
| 180° | 1266.3 | 1266.3 | 1266.3 | 1266.3 | 1266.3 | 1266.3 | 1266.3 | 1266.3 |

(END OF REPORT)