

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: P331981-830

Luminaire Tested: **S123DIP-S775D805U830-4F0-1E-UDD-F4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331981-830
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-17,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S123DIP-S775D805U830-4F0-1E-UDD-F4
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 775 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
UPLIGHT 805 LUMENS PER FOOT, BATWING OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5728.2 lumens
Efficiency: N/A
Efficacy: 124.8 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

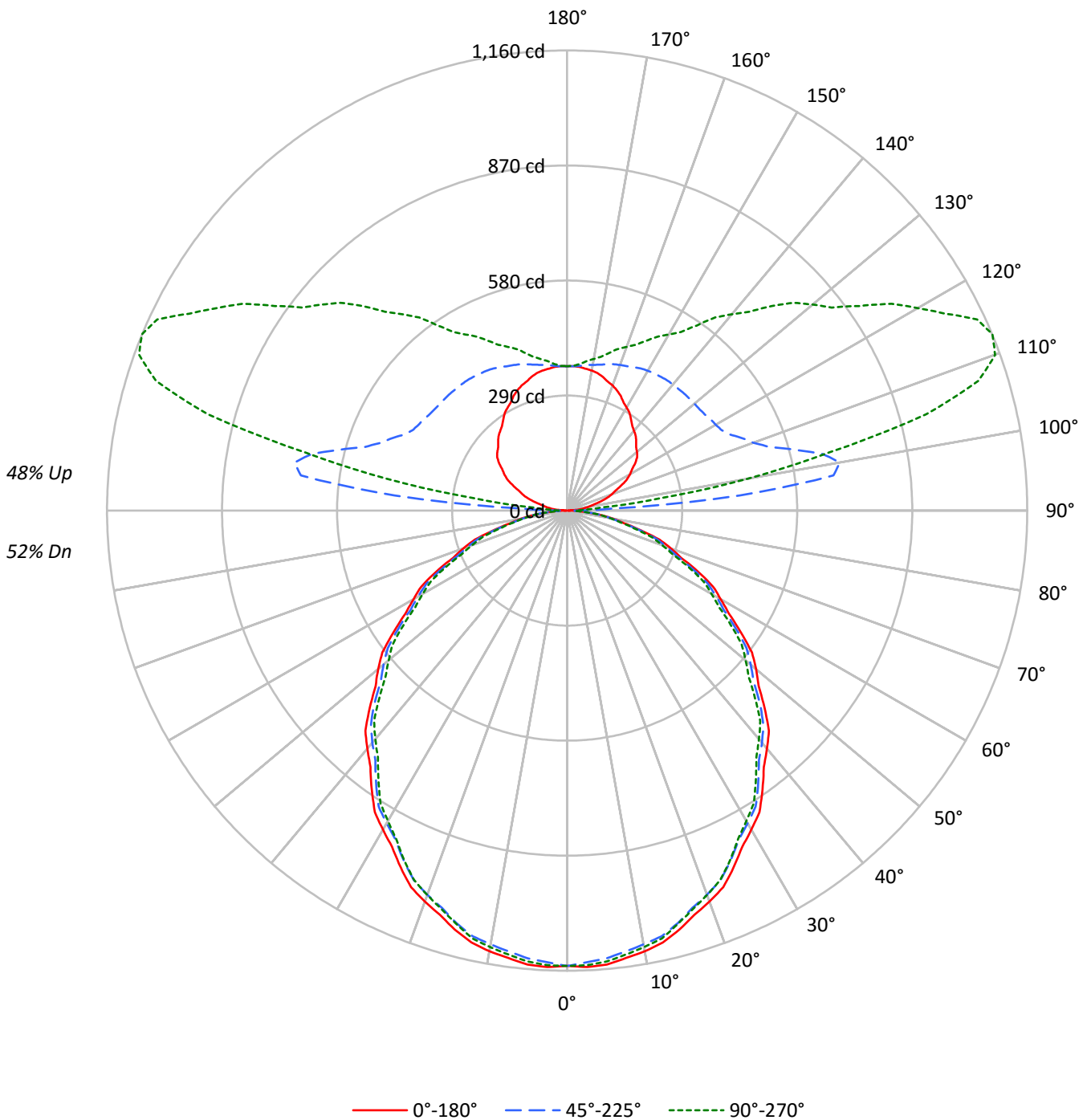
Input Watts (W): 45.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P331981-830

CATALOG NUMBER: S123DIP-S775D805U830-4F0-1E-UDD-F4

Luminous Intensity Polar Plot





TEST NUMBER: P331981-830

CATALOG NUMBER: S123DIP-S775D805U830-4F0-1E-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 | 108 | 108 | 108 | 108 | 100 | 100 | 100 | 100 | 85 | 85 | 85 | 71 | 71 | 71 | 58 | 58 | 58 | 52 |
| 1 | 98 | 94 | 90 | 86 | 91 | 87 | 84 | 80 | 74 | 72 | 69 | 62 | 60 | 59 | 51 | 50 | 49 | 44 |
| 2 | 89 | 82 | 76 | 70 | 82 | 76 | 71 | 66 | 65 | 61 | 57 | 55 | 52 | 49 | 45 | 43 | 41 | 37 |
| 3 | 82 | 72 | 65 | 59 | 75 | 67 | 60 | 55 | 57 | 52 | 48 | 48 | 45 | 41 | 40 | 37 | 35 | 31 |
| 4 | 75 | 64 | 56 | 50 | 69 | 59 | 52 | 47 | 51 | 45 | 41 | 43 | 39 | 36 | 36 | 33 | 30 | 27 |
| 5 | 68 | 57 | 49 | 43 | 63 | 53 | 46 | 40 | 45 | 40 | 35 | 39 | 34 | 31 | 32 | 29 | 26 | 23 |
| 6 | 63 | 51 | 43 | 37 | 58 | 47 | 40 | 35 | 41 | 35 | 31 | 35 | 30 | 27 | 29 | 26 | 23 | 20 |
| 7 | 58 | 46 | 38 | 32 | 54 | 43 | 36 | 31 | 37 | 31 | 27 | 32 | 27 | 24 | 27 | 23 | 21 | 18 |
| 8 | 54 | 42 | 34 | 29 | 50 | 39 | 32 | 27 | 34 | 28 | 24 | 29 | 25 | 21 | 24 | 21 | 18 | 16 |
| 9 | 50 | 38 | 31 | 25 | 47 | 36 | 29 | 24 | 31 | 26 | 22 | 27 | 22 | 19 | 23 | 19 | 17 | 14 |
| 10 | 47 | 35 | 28 | 23 | 44 | 33 | 26 | 22 | 29 | 23 | 19 | 25 | 20 | 17 | 21 | 18 | 15 | 13 |

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: P331981-830

CATALOG NUMBER: S123DIP-S775D805U830-4F0-1E-UDD-F4

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 108.1 | 1.9 |
| 10°-20° | 305.3 | 5.3 |
| 20°-30° | 451.0 | 7.9 |
| 30°-40° | 526.8 | 9.2 |
| 40°-50° | 529.6 | 9.2 |
| 50°-60° | 465.2 | 8.1 |
| 60°-70° | 346.6 | 6.1 |
| 70°-80° | 197.5 | 3.4 |
| 80°-90° | 59.5 | 1.0 |
| 90°-100° | 202.6 | 3.5 |
| 100°-110° | 573.6 | 10.0 |
| 110°-120° | 564.3 | 9.9 |
| 120°-130° | 450.1 | 7.9 |
| 130°-140° | 354.9 | 6.2 |
| 140°-150° | 264.9 | 4.6 |
| 150°-160° | 184.6 | 3.2 |
| 160°-170° | 108.5 | 1.9 |
| 170°-180° | 35.3 | 0.6 |
| 0°-30° | 864.4 | 15.1 |
| 0°-40° | 1391.1 | 24.3 |
| 0°-60° | 2385.9 | 41.7 |
| 0°-90° | 2989.5 | 52.2 |
| 90°-120° | 1340.5 | 23.4 |
| 90°-150° | 2410.4 | 42.1 |
| 90°-180° | 2739.0 | 47.8 |
| 0°-180° | 5728.2 | 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° | 2 | 9 | 18 | 21 | 21 | 5 |
| 95° | 25 | 81 | 437 | 127 | 86 | 27 |
| 105° | 86 | 126 | 592 | 1036 | 937 | 91 |
| 115° | 151 | 188 | 453 | 994 | 1140 | 150 |
| 125° | 210 | 248 | 423 | 766 | 899 | 186 |
| 135° | 246 | 294 | 417 | 631 | 729 | 190 |
| 145° | 281 | 322 | 412 | 518 | 570 | 176 |
| 155° | 319 | 344 | 399 | 453 | 472 | 147 |
| 165° | 349 | 358 | 382 | 405 | 412 | 98 |
| 175° | 363 | 364 | 366 | 371 | 371 | 34 |
| 180° | 364 | 364 | 364 | 364 | 364 | |



TEST NUMBER: P331981-830

CATALOG NUMBER: S123DIP-S775D805U830-4F0-1E-UDD-F4

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° | 20.8 | 20.5 | 20.4 | 20.3 | 20.1 | 20.0 | 20.3 | 20.5 | 20.8 | 21.0 | 20.7 |
| 90° | 1.5 | 2.9 | 4.4 | 6.6 | 8.1 | 9.6 | 11.8 | 14.0 | 16.2 | 18.4 | 17.7 |
| 92.5° | 9.1 | 13.6 | 19.8 | 25.5 | 31.7 | 42.6 | 61.9 | 93.6 | 124.7 | 113.3 | 85.5 |
| 95° | 25.1 | 27.2 | 35.3 | 47.9 | 67.0 | 95.8 | 158.4 | 268.2 | 389.1 | 437.0 | 354.5 |
| 97.5° | 42.7 | 43.5 | 49.9 | 60.7 | 79.6 | 110.7 | 170.5 | 294.4 | 495.8 | 677.2 | 724.5 |
| 100° | 54.6 | 55.2 | 60.4 | 70.8 | 88.4 | 117.2 | 168.7 | 277.8 | 471.6 | 697.9 | 843.0 |
| 102.5° | 66.9 | 68.2 | 72.8 | 82.6 | 98.5 | 124.8 | 171.1 | 263.6 | 436.2 | 659.5 | 848.9 |
| 105° | 85.5 | 87.7 | 92.1 | 100.9 | 115.0 | 137.8 | 177.6 | 253.4 | 392.8 | 592.5 | 804.0 |
| 107.5° | 105.2 | 107.4 | 111.7 | 120.4 | 133.6 | 154.8 | 189.6 | 252.8 | 365.0 | 533.2 | 725.3 |
| 110° | 119.4 | 121.6 | 125.3 | 133.4 | 145.9 | 166.5 | 199.7 | 255.7 | 354.5 | 499.6 | 675.7 |



TEST NUMBER: P331981-830

CATALOG NUMBER: S123DIP-S775D805U830-4F0-1E-UDD-F4

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 132.3 | 134.6 | 138.3 | 146.4 | 158.9 | 178.9 | 209.7 | 261.6 | 348.6 | 477.2 | 632.7 |
| 115° | 151.1 | 154.0 | 158.4 | 165.8 | 178.3 | 198.2 | 226.2 | 271.2 | 346.4 | 453.2 | 580.7 |
| 117.5° | 169.8 | 173.1 | 176.8 | 183.6 | 197.7 | 216.0 | 243.7 | 283.9 | 347.7 | 439.0 | 549.3 |
| 120° | 182.8 | 184.9 | 188.6 | 196.0 | 210.0 | 228.5 | 255.0 | 293.3 | 350.1 | 432.5 | 532.8 |
| 122.5° | 194.0 | 196.1 | 199.8 | 207.8 | 221.2 | 240.8 | 266.7 | 302.1 | 354.1 | 428.5 | 519.2 |
| 125° | 210.0 | 211.5 | 215.9 | 224.0 | 238.0 | 257.9 | 283.7 | 316.1 | 360.3 | 423.0 | 501.8 |
| 127.5° | 222.3 | 224.4 | 229.9 | 238.2 | 253.6 | 273.5 | 298.4 | 327.6 | 367.4 | 420.4 | 486.5 |
| 130° | 229.9 | 232.1 | 238.7 | 247.6 | 263.1 | 283.0 | 307.3 | 335.3 | 372.1 | 418.6 | 478.2 |
| 132.5° | 235.8 | 238.7 | 245.8 | 256.5 | 271.9 | 291.2 | 314.9 | 342.3 | 375.7 | 417.9 | 470.6 |
| 135° | 246.1 | 249.1 | 257.2 | 268.2 | 283.7 | 303.6 | 326.4 | 351.5 | 381.0 | 417.1 | 460.5 |
| 137.5° | 255.8 | 258.9 | 266.9 | 278.7 | 294.0 | 312.5 | 334.4 | 358.3 | 384.6 | 415.5 | 451.9 |
| 140° | 262.3 | 266.0 | 273.4 | 285.2 | 299.9 | 318.3 | 339.7 | 361.8 | 386.9 | 414.9 | 446.6 |
| 142.5° | 269.4 | 272.5 | 280.5 | 291.1 | 305.9 | 323.0 | 343.8 | 365.3 | 388.6 | 413.7 | 441.9 |
| 145° | 280.8 | 283.0 | 289.6 | 300.7 | 313.2 | 330.2 | 349.3 | 369.2 | 389.8 | 411.9 | 435.5 |
| 147.5° | 292.3 | 293.6 | 300.1 | 309.6 | 321.7 | 336.2 | 353.7 | 371.6 | 389.8 | 409.2 | 429.3 |
| 150° | 299.9 | 300.7 | 306.5 | 316.1 | 326.4 | 339.7 | 356.7 | 372.1 | 389.8 | 406.8 | 425.2 |
| 152.5° | 307.6 | 307.7 | 313.6 | 322.1 | 331.1 | 343.8 | 358.4 | 373.3 | 388.0 | 403.8 | 420.5 |
| 155° | 319.1 | 319.1 | 323.5 | 330.8 | 338.9 | 349.3 | 361.8 | 373.6 | 386.2 | 398.7 | 413.4 |
| 157.5° | 328.2 | 328.8 | 332.3 | 338.8 | 345.7 | 353.7 | 363.7 | 374.4 | 383.6 | 394.1 | 405.5 |
| 160° | 335.3 | 335.3 | 338.3 | 344.1 | 349.3 | 356.7 | 365.5 | 374.4 | 382.5 | 390.6 | 400.1 |
| 162.5° | 340.6 | 340.6 | 343.0 | 347.7 | 352.2 | 358.4 | 366.1 | 373.7 | 380.1 | 387.0 | 394.8 |
| 165° | 348.6 | 347.8 | 349.3 | 353.0 | 355.9 | 361.1 | 366.9 | 372.1 | 376.5 | 381.7 | 387.6 |
| 167.5° | 354.6 | 353.7 | 354.5 | 357.2 | 359.3 | 362.6 | 366.8 | 371.0 | 373.1 | 376.5 | 380.7 |
| 170° | 358.2 | 356.7 | 357.4 | 359.6 | 361.1 | 362.6 | 366.3 | 369.2 | 370.7 | 372.9 | 376.5 |
| 172.5° | 360.5 | 359.6 | 359.8 | 361.4 | 362.2 | 363.2 | 366.3 | 368.6 | 368.9 | 369.9 | 372.4 |
| 175° | 363.3 | 362.6 | 361.8 | 363.3 | 363.3 | 364.0 | 365.5 | 366.9 | 366.3 | 366.3 | 367.7 |
| 177.5° | 364.6 | 364.0 | 363.4 | 364.0 | 364.0 | 364.0 | 364.6 | 365.8 | 364.6 | 364.0 | 364.6 |
| 180° | 364.0 | 364.0 | 364.0 | 364.0 | 364.0 | 364.0 | 364.0 | 364.0 | 364.0 | 364.0 | 364.0 |



TEST NUMBER: P331981-830

CATALOG NUMBER: S123DIP-S775D805U830-4F0-1E-UDD-F4

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° | 20.7 | 20.6 | 20.6 | 20.8 | 20.7 | 20.8 | 21.0 | 20.8 |
| 90° | 18.4 | 19.1 | 19.9 | 21.4 | 20.6 | 21.4 | 22.1 | 21.4 |
| 92.5° | 62.0 | 49.2 | 43.5 | 39.7 | 38.4 | 36.1 | 36.9 | 35.5 |
| 95° | 265.3 | 179.8 | 140.7 | 114.2 | 100.2 | 93.6 | 88.4 | 85.5 |
| 97.5° | 661.3 | 529.7 | 434.6 | 346.5 | 292.1 | 258.9 | 239.0 | 232.7 |
| 100° | 868.8 | 809.1 | 722.9 | 618.2 | 543.8 | 490.0 | 461.3 | 462.0 |
| 102.5° | 937.7 | 935.9 | 885.6 | 819.3 | 761.4 | 718.8 | 694.7 | 677.8 |
| 105° | 958.0 | 1031.6 | 1045.7 | 1026.5 | 992.6 | 964.6 | 941.0 | 937.4 |
| 107.5° | 899.9 | 1019.5 | 1084.1 | 1110.3 | 1111.0 | 1101.5 | 1093.5 | 1086.8 |
| 110° | 844.5 | 980.1 | 1072.9 | 1124.5 | 1145.1 | 1151.0 | 1149.5 | 1148.1 |



TEST NUMBER: P331981-830

CATALOG NUMBER: S123DIP-S775D805U830-4F0-1E-UDD-F4

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|-------|-------|--------|--------|--------|--------|--------|--------|
| 112.5° | 789.7 | 928.2 | 1032.3 | 1098.5 | 1136.3 | 1154.6 | 1160.2 | 1160.5 |
| 115° | 717.0 | 845.2 | 953.6 | 1033.9 | 1089.1 | 1121.5 | 1136.3 | 1140.0 |
| 117.5° | 664.4 | 775.1 | 872.3 | 953.9 | 1011.4 | 1048.6 | 1069.8 | 1074.9 |
| 120° | 636.7 | 736.1 | 824.6 | 899.0 | 957.2 | 998.5 | 1016.2 | 1020.6 |
| 122.5° | 614.9 | 704.9 | 786.8 | 856.0 | 907.7 | 944.8 | 964.3 | 969.9 |
| 125° | 585.8 | 666.2 | 736.9 | 795.9 | 843.0 | 875.4 | 893.8 | 899.0 |
| 127.5° | 560.5 | 632.1 | 696.0 | 749.6 | 791.5 | 819.3 | 835.9 | 840.7 |
| 130° | 544.6 | 610.9 | 670.6 | 720.7 | 759.8 | 786.3 | 801.7 | 807.7 |
| 132.5° | 529.8 | 590.9 | 646.4 | 694.2 | 730.8 | 757.4 | 771.1 | 775.2 |
| 135° | 509.9 | 562.2 | 610.1 | 652.1 | 688.2 | 710.4 | 723.6 | 728.8 |
| 137.5° | 491.8 | 534.7 | 576.0 | 612.4 | 642.7 | 665.2 | 676.4 | 679.8 |
| 140° | 481.2 | 518.8 | 554.1 | 585.8 | 613.9 | 634.4 | 646.3 | 645.5 |
| 142.5° | 471.2 | 503.4 | 534.1 | 561.7 | 585.5 | 603.8 | 614.4 | 613.7 |
| 145° | 459.1 | 483.4 | 507.0 | 528.4 | 546.8 | 562.2 | 568.2 | 569.6 |
| 147.5° | 449.2 | 468.5 | 487.6 | 502.8 | 516.7 | 527.2 | 532.8 | 533.4 |
| 150° | 442.1 | 459.1 | 474.6 | 488.5 | 499.6 | 507.7 | 512.2 | 512.2 |
| 152.5° | 435.6 | 450.3 | 463.9 | 475.6 | 484.3 | 491.8 | 494.5 | 494.5 |
| 155° | 425.9 | 437.7 | 448.7 | 457.6 | 464.2 | 470.1 | 471.6 | 472.3 |
| 157.5° | 415.6 | 425.5 | 434.0 | 440.9 | 446.7 | 451.1 | 452.3 | 452.1 |
| 160° | 409.7 | 417.8 | 425.2 | 430.4 | 435.5 | 439.9 | 439.9 | 439.2 |
| 162.5° | 402.7 | 409.5 | 416.3 | 420.9 | 424.3 | 428.1 | 428.1 | 427.4 |
| 165° | 393.5 | 397.9 | 403.1 | 406.8 | 409.7 | 412.6 | 411.9 | 411.9 |
| 167.5° | 385.5 | 388.9 | 391.9 | 394.5 | 395.9 | 397.9 | 397.2 | 397.2 |
| 170° | 380.2 | 382.5 | 385.4 | 386.9 | 387.6 | 389.1 | 388.3 | 388.3 |
| 172.5° | 375.5 | 377.1 | 379.5 | 380.4 | 380.5 | 382.0 | 380.7 | 380.1 |
| 175° | 369.2 | 369.9 | 371.4 | 371.4 | 371.4 | 372.1 | 371.4 | 370.7 |
| 177.5° | 365.2 | 365.8 | 366.4 | 366.4 | 365.8 | 366.4 | 365.2 | 365.2 |
| 180° | 364.0 | 364.0 | 364.0 | 364.0 | 364.0 | 364.0 | 364.0 | 364.0 |

(END OF REPORT)