

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: P332032-840

Luminaire Tested: **S123DIP-S1000D1025U840-4F0-1E-UDD-D4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332032-840
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-S1000D1025U840-4F0-1E-UDD-D4
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 1000 LUMENS PER FOOT, DROP SATIN WHITE DIFFUSER
UPLIGHT 1025 LUMENS PER FOOT, BATWING OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7990.4 lumens
Efficiency: N/A
Efficacy: 132.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.08')
CIE Type: General Diffuse

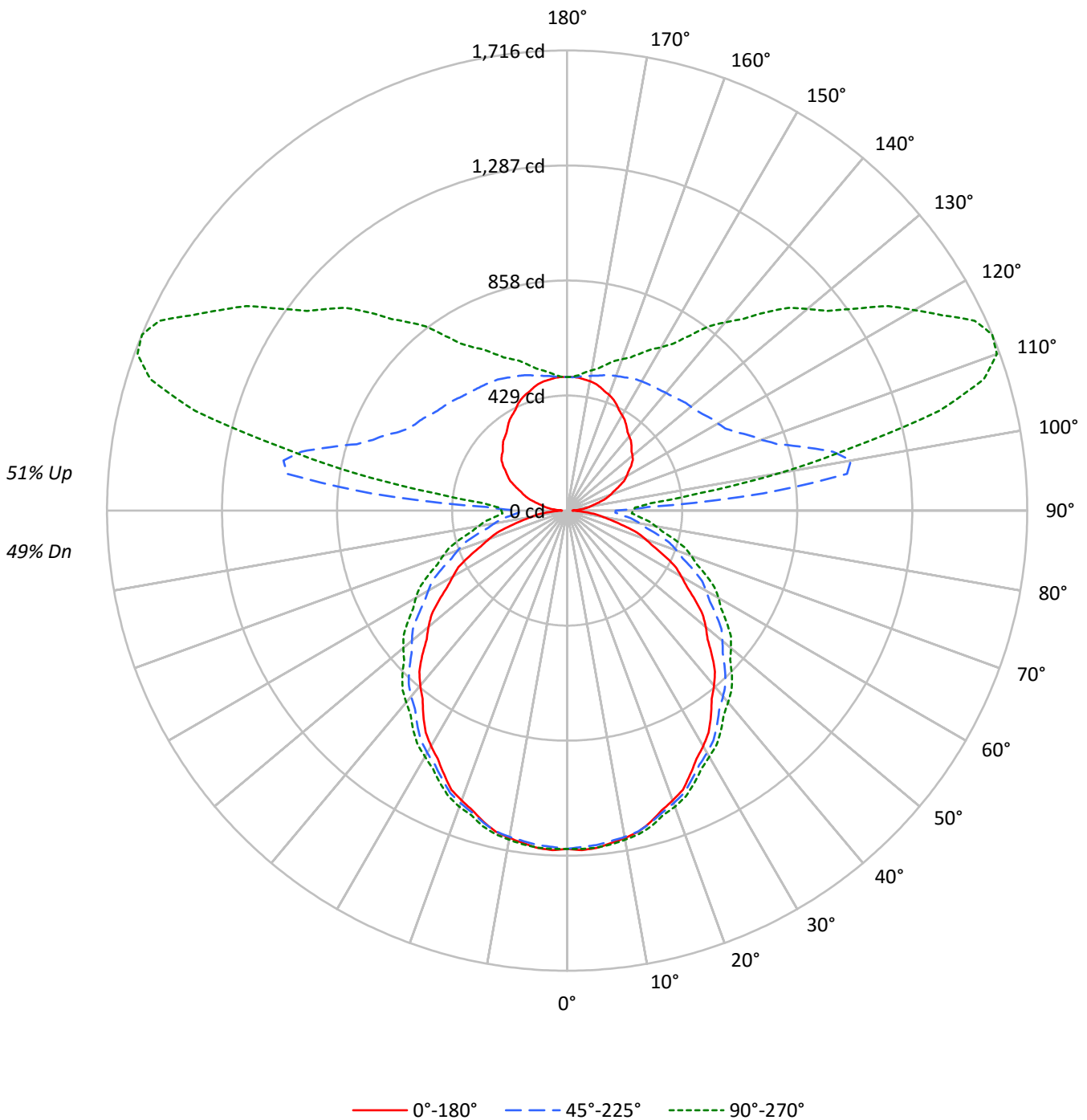
Input Watts (W): 60.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P332032-840

CATALOG NUMBER: S123DIP-S1000D1025U840-4F0-1E-UDD-D4

Luminous Intensity Polar Plot





TEST NUMBER: P332032-840

CATALOG NUMBER: S123DIP-S1000D1025U840-4F0-1E-UDD-D4

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 | 107 | 107 | 107 | 107 | 98 | 98 | 98 | 98 | 83 | 83 | 83 | 68 | 68 | 68 | 55 | 55 | 55 | 49 |
| 1 | 96 | 92 | 87 | 84 | 89 | 84 | 81 | 77 | 71 | 68 | 66 | 58 | 56 | 55 | 47 | 46 | 44 | 39 |
| 2 | 87 | 79 | 73 | 67 | 80 | 73 | 68 | 63 | 61 | 57 | 54 | 51 | 48 | 45 | 41 | 38 | 37 | 32 |
| 3 | 79 | 70 | 62 | 56 | 73 | 64 | 57 | 52 | 54 | 49 | 45 | 44 | 41 | 37 | 36 | 33 | 31 | 26 |
| 4 | 73 | 61 | 53 | 47 | 66 | 57 | 49 | 44 | 48 | 42 | 38 | 39 | 35 | 32 | 32 | 29 | 26 | 22 |
| 5 | 66 | 54 | 46 | 40 | 61 | 50 | 43 | 37 | 43 | 37 | 32 | 35 | 31 | 27 | 28 | 25 | 23 | 19 |
| 6 | 61 | 49 | 40 | 34 | 56 | 45 | 38 | 32 | 38 | 32 | 28 | 32 | 27 | 24 | 26 | 22 | 20 | 17 |
| 7 | 57 | 44 | 36 | 30 | 52 | 41 | 33 | 28 | 35 | 29 | 25 | 29 | 24 | 21 | 23 | 20 | 17 | 15 |
| 8 | 52 | 40 | 32 | 26 | 48 | 37 | 30 | 25 | 31 | 26 | 22 | 26 | 22 | 19 | 22 | 18 | 16 | 13 |
| 9 | 49 | 36 | 29 | 24 | 45 | 34 | 27 | 22 | 29 | 23 | 19 | 24 | 20 | 17 | 20 | 17 | 14 | 12 |
| 10 | 46 | 33 | 26 | 21 | 42 | 31 | 24 | 20 | 27 | 21 | 17 | 22 | 18 | 15 | 18 | 15 | 13 | 11 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 13581 | 13581 | 13581 |
| 5° | 13623 | 13239 | 13246 |
| 10° | 13501 | 12935 | 12870 |
| 15° | 13327 | 12588 | 12458 |
| 20° | 13078 | 12192 | 12005 |
| 25° | 12772 | 11738 | 11529 |
| 30° | 12457 | 11328 | 11046 |
| 35° | 12104 | 10895 | 10660 |
| 40° | 11767 | 10501 | 10247 |
| 45° | 11396 | 10122 | 9918 |
| 50° | 11028 | 9750 | 9554 |
| 55° | 10621 | 9366 | 9226 |
| 60° | 10225 | 8977 | 8892 |
| 65° | 9818 | 8564 | 8493 |
| 70° | 9204 | 8097 | 8084 |
| 75° | 8432 | 7563 | 7667 |
| 80° | 7539 | 7041 | 7193 |
| 85° | 6723 | 6680 | 6917 |



TEST NUMBER: P332032-840

CATALOG NUMBER: S123DIP-S1000D1025U840-4F0-1E-UDD-D4

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 119.6 | 1.5 |
| 10°-20° | 341.0 | 4.3 |
| 20°-30° | 510.0 | 6.4 |
| 30°-40° | 609.0 | 7.6 |
| 40°-50° | 637.2 | 8.0 |
| 50°-60° | 598.0 | 7.5 |
| 60°-70° | 499.4 | 6.3 |
| 70°-80° | 357.3 | 4.5 |
| 80°-90° | 216.9 | 2.7 |
| 90°-100° | 410.8 | 5.1 |
| 100°-110° | 882.9 | 11.1 |
| 110°-120° | 837.5 | 10.5 |
| 120°-130° | 653.2 | 8.2 |
| 130°-140° | 502.3 | 6.3 |
| 140°-150° | 365.9 | 4.6 |
| 150°-160° | 252.6 | 3.2 |
| 160°-170° | 148.4 | 1.9 |
| 170°-180° | 48.3 | 0.6 |
| 0°-30° | 970.6 | 12.1 |
| 0°-40° | 1579.6 | 19.8 |
| 0°-60° | 2814.7 | 35.2 |
| 0°-90° | 3888.4 | 48.7 |
| 90°-120° | 2131.3 | 26.7 |
| 90°-150° | 3652.7 | 45.7 |
| 90°-180° | 4102.0 | 51.3 |
| 0°-180° | 7990.4 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 1262 | 1262 | 1262 | 1262 | 1262 | |
| 5° | 1263 | 1260 | 1252 | 1262 | 1262 | 120 |
| 15° | 1203 | 1206 | 1205 | 1218 | 1218 | 339 |
| 25° | 1086 | 1099 | 1104 | 1121 | 1122 | 500 |
| 35° | 935 | 956 | 974 | 994 | 1001 | 584 |
| 45° | 764 | 797 | 832 | 857 | 869 | 589 |
| 55° | 583 | 628 | 678 | 713 | 726 | 522 |
| 65° | 403 | 457 | 517 | 556 | 572 | 398 |
| 75° | 218 | 283 | 352 | 396 | 414 | 233 |
| 85° | 67 | 136 | 209 | 254 | 269 | 71 |
| 90° | 20 | 98 | 181 | 228 | 245 | 15 |
| 95° | 49 | 181 | 734 | 352 | 309 | 49 |
| 105° | 128 | 218 | 914 | 1557 | 1436 | 135 |
| 115° | 214 | 283 | 693 | 1464 | 1676 | 212 |
| 125° | 291 | 346 | 623 | 1120 | 1312 | 259 |
| 135° | 339 | 404 | 587 | 904 | 1045 | 262 |
| 145° | 386 | 440 | 564 | 719 | 796 | 241 |
| 155° | 436 | 471 | 545 | 620 | 646 | 201 |
| 165° | 477 | 490 | 522 | 554 | 564 | 134 |
| 175° | 497 | 498 | 501 | 508 | 507 | 47 |
| 180° | 498 | 498 | 498 | 498 | 498 | |



TEST NUMBER: P332032-840

CATALOG NUMBER: S123DIP-S1000D1025U840-4F0-1E-UDD-D4

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1261.7 | 1261.7 | 1261.7 | 1261.7 | 1261.7 | 1261.7 | 1261.7 | 1261.7 | 1261.7 | 1261.7 | 1261.7 |
| 2.5° | 1267.3 | 1266.6 | 1265.8 | 1265.1 | 1264.4 | 1262.9 | 1261.0 | 1259.1 | 1257.1 | 1255.2 | 1257.1 |
| 5° | 1263.1 | 1262.5 | 1261.9 | 1261.3 | 1260.7 | 1259.5 | 1257.7 | 1255.8 | 1253.9 | 1252.1 | 1254.6 |
| 7.5° | 1250.7 | 1250.9 | 1251.0 | 1251.1 | 1251.2 | 1250.4 | 1248.7 | 1246.9 | 1245.1 | 1243.3 | 1246.4 |
| 10° | 1239.8 | 1240.4 | 1241.0 | 1241.6 | 1242.2 | 1241.7 | 1240.2 | 1238.7 | 1237.2 | 1235.7 | 1238.7 |
| 12.5° | 1226.6 | 1227.4 | 1228.3 | 1229.1 | 1230.0 | 1229.9 | 1228.9 | 1227.8 | 1226.8 | 1225.8 | 1228.6 |
| 15° | 1202.6 | 1203.6 | 1204.5 | 1205.4 | 1206.3 | 1206.6 | 1206.3 | 1206.0 | 1205.7 | 1205.4 | 1208.5 |
| 17.5° | 1172.5 | 1174.3 | 1176.1 | 1177.9 | 1179.7 | 1180.6 | 1180.5 | 1180.3 | 1180.2 | 1180.1 | 1182.9 |
| 20° | 1150.4 | 1152.3 | 1154.1 | 1155.9 | 1157.7 | 1159.0 | 1159.6 | 1160.2 | 1160.8 | 1161.4 | 1164.2 |
| 22.5° | 1127.3 | 1129.1 | 1131.0 | 1132.9 | 1134.7 | 1136.0 | 1136.9 | 1137.7 | 1138.6 | 1139.4 | 1142.9 |
| 25° | 1085.8 | 1088.8 | 1092.0 | 1095.0 | 1098.0 | 1100.0 | 1101.0 | 1101.9 | 1102.8 | 1103.7 | 1107.6 |
| 27.5° | 1044.0 | 1047.5 | 1051.0 | 1054.5 | 1057.9 | 1060.7 | 1062.7 | 1064.6 | 1066.5 | 1068.5 | 1072.0 |
| 30° | 1014.3 | 1018.3 | 1022.3 | 1026.2 | 1030.3 | 1033.4 | 1035.9 | 1038.3 | 1040.8 | 1043.2 | 1046.9 |
| 32.5° | 981.4 | 985.8 | 990.3 | 994.7 | 999.2 | 1003.0 | 1006.2 | 1009.4 | 1012.6 | 1015.7 | 1019.7 |
| 35° | 934.6 | 939.5 | 944.4 | 949.3 | 954.2 | 958.6 | 962.6 | 966.5 | 970.5 | 974.5 | 979.1 |
| 37.5° | 885.1 | 890.7 | 896.2 | 901.6 | 907.2 | 912.3 | 917.3 | 922.1 | 927.0 | 931.9 | 937.1 |
| 40° | 852.1 | 857.7 | 863.1 | 868.7 | 874.1 | 880.0 | 886.1 | 892.2 | 898.3 | 904.4 | 909.6 |
| 42.5° | 815.9 | 822.6 | 829.3 | 836.1 | 842.7 | 849.3 | 855.7 | 862.0 | 868.4 | 874.7 | 880.4 |
| 45° | 764.2 | 771.5 | 778.9 | 786.2 | 793.6 | 801.0 | 808.6 | 816.3 | 823.9 | 831.5 | 837.4 |
| 47.5° | 710.0 | 718.3 | 726.7 | 735.0 | 743.3 | 751.8 | 760.5 | 769.3 | 778.0 | 786.8 | 793.2 |
| 50° | 674.9 | 683.4 | 692.0 | 700.5 | 709.0 | 718.1 | 727.5 | 737.0 | 746.5 | 756.0 | 763.0 |
| 52.5° | 637.4 | 646.5 | 655.6 | 664.6 | 673.7 | 683.4 | 693.9 | 704.3 | 714.7 | 725.2 | 732.5 |
| 55° | 582.8 | 592.9 | 602.9 | 613.0 | 623.1 | 633.6 | 644.6 | 655.6 | 666.6 | 677.6 | 685.9 |
| 57.5° | 529.5 | 540.0 | 550.5 | 561.0 | 571.5 | 582.8 | 594.8 | 606.8 | 618.8 | 630.9 | 639.1 |
| 60° | 492.1 | 503.0 | 514.0 | 525.0 | 536.0 | 547.8 | 560.3 | 572.9 | 585.4 | 597.9 | 606.4 |
| 62.5° | 456.9 | 468.1 | 479.4 | 490.6 | 501.8 | 514.1 | 527.4 | 540.6 | 553.8 | 567.1 | 575.6 |
| 65° | 402.7 | 414.7 | 426.6 | 438.5 | 450.4 | 463.0 | 476.5 | 489.9 | 503.3 | 516.8 | 525.9 |
| 67.5° | 347.7 | 360.4 | 373.0 | 385.7 | 398.3 | 411.5 | 425.2 | 438.9 | 452.5 | 466.3 | 476.3 |
| 70° | 309.2 | 322.3 | 335.5 | 348.7 | 361.8 | 375.7 | 390.3 | 405.1 | 419.7 | 434.3 | 444.1 |
| 72.5° | 274.1 | 287.2 | 300.3 | 313.5 | 326.6 | 340.7 | 355.9 | 371.0 | 386.2 | 401.3 | 411.3 |
| 75° | 218.5 | 232.9 | 247.2 | 261.7 | 276.0 | 290.7 | 306.1 | 321.3 | 336.6 | 351.8 | 361.9 |
| 77.5° | 170.2 | 184.6 | 199.1 | 213.6 | 228.0 | 243.0 | 258.4 | 273.8 | 289.2 | 304.6 | 315.2 |
| 80° | 136.0 | 151.1 | 166.0 | 181.0 | 195.9 | 211.4 | 227.2 | 243.2 | 259.0 | 274.9 | 285.3 |
| 82.5° | 106.3 | 121.6 | 136.8 | 152.0 | 167.2 | 182.9 | 199.0 | 215.1 | 231.3 | 247.4 | 257.8 |
| 85° | 67.4 | 82.6 | 97.9 | 113.2 | 128.5 | 144.2 | 160.4 | 176.5 | 192.7 | 208.9 | 219.3 |
| 87.5° | 37.0 | 52.6 | 68.2 | 84.0 | 99.6 | 115.4 | 131.6 | 147.7 | 164.0 | 180.2 | 190.4 |
| 90° | 19.9 | 36.9 | 53.8 | 71.8 | 88.9 | 106.1 | 124.7 | 143.3 | 161.9 | 180.6 | 189.9 |
| 92.5° | 29.3 | 48.8 | 70.8 | 92.1 | 114.1 | 143.4 | 185.2 | 243.9 | 301.7 | 301.5 | 273.6 |
| 95° | 49.4 | 64.3 | 87.4 | 116.3 | 154.5 | 207.2 | 307.9 | 473.0 | 653.4 | 733.9 | 630.4 |
| 97.5° | 71.9 | 83.7 | 103.1 | 128.8 | 165.3 | 220.5 | 316.6 | 500.2 | 790.1 | 1052.6 | 1126.4 |
| 100° | 86.9 | 97.8 | 114.6 | 138.5 | 172.4 | 223.7 | 308.3 | 471.5 | 750.6 | 1074.2 | 1281.6 |
| 102.5° | 102.8 | 113.4 | 128.5 | 150.6 | 181.2 | 228.5 | 305.6 | 446.1 | 695.9 | 1015.1 | 1282.8 |
| 105° | 127.9 | 138.3 | 151.7 | 171.1 | 197.5 | 239.0 | 306.6 | 423.5 | 627.2 | 913.5 | 1211.4 |
| 107.5° | 153.3 | 162.6 | 174.6 | 192.8 | 216.9 | 255.3 | 315.6 | 414.2 | 580.4 | 822.8 | 1093.8 |
| 110° | 171.6 | 180.1 | 190.6 | 207.2 | 229.8 | 266.9 | 324.5 | 413.3 | 560.6 | 771.4 | 1020.3 |



TEST NUMBER: P332032-840

CATALOG NUMBER: S123DIP-S1000D1025U840-4F0-1E-UDD-D4

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 189.2 | 196.8 | 206.4 | 222.0 | 243.7 | 279.2 | 333.1 | 415.8 | 546.4 | 734.2 | 954.5 |
| 115° | 213.5 | 221.3 | 231.0 | 244.7 | 265.5 | 300.0 | 349.3 | 421.8 | 535.6 | 692.8 | 874.5 |
| 117.5° | 238.8 | 245.7 | 253.1 | 264.6 | 286.0 | 317.5 | 365.7 | 430.9 | 528.5 | 663.8 | 821.8 |
| 120° | 255.5 | 260.0 | 266.6 | 278.2 | 298.9 | 329.9 | 376.3 | 438.8 | 526.4 | 649.4 | 793.6 |
| 122.5° | 270.8 | 274.6 | 280.4 | 292.2 | 311.2 | 343.3 | 388.4 | 446.4 | 527.0 | 638.3 | 769.3 |
| 125° | 291.4 | 293.5 | 299.4 | 310.5 | 329.7 | 361.3 | 405.5 | 458.7 | 528.1 | 622.6 | 736.9 |
| 127.5° | 308.1 | 310.8 | 318.0 | 329.0 | 349.8 | 380.6 | 422.0 | 469.3 | 531.0 | 610.7 | 707.3 |
| 130° | 318.6 | 321.3 | 330.1 | 341.9 | 362.7 | 392.8 | 432.2 | 476.7 | 533.2 | 602.8 | 690.2 |
| 132.5° | 325.6 | 329.3 | 339.2 | 353.7 | 374.8 | 403.5 | 440.9 | 483.3 | 533.7 | 596.5 | 674.0 |
| 135° | 339.4 | 343.2 | 354.0 | 368.8 | 389.6 | 418.4 | 452.9 | 490.6 | 534.3 | 587.0 | 652.0 |
| 137.5° | 352.4 | 356.5 | 367.1 | 382.9 | 403.7 | 429.7 | 461.6 | 496.2 | 534.0 | 578.2 | 632.9 |
| 140° | 360.2 | 365.3 | 375.4 | 391.5 | 411.6 | 437.3 | 467.5 | 498.6 | 533.8 | 573.0 | 621.0 |
| 142.5° | 369.9 | 373.9 | 384.6 | 398.8 | 418.7 | 442.3 | 470.9 | 500.5 | 532.5 | 567.0 | 609.6 |
| 145° | 385.5 | 388.2 | 396.9 | 411.7 | 428.6 | 451.6 | 477.8 | 505.0 | 533.2 | 563.5 | 598.1 |
| 147.5° | 399.8 | 401.6 | 410.5 | 423.5 | 440.1 | 459.9 | 483.8 | 508.3 | 533.2 | 559.7 | 588.0 |
| 150° | 410.3 | 411.3 | 419.3 | 432.4 | 446.6 | 464.7 | 487.9 | 509.1 | 533.2 | 556.4 | 581.6 |
| 152.5° | 420.7 | 420.9 | 429.0 | 440.5 | 453.0 | 470.4 | 490.3 | 510.7 | 530.8 | 552.4 | 575.2 |
| 155° | 436.5 | 436.5 | 442.5 | 452.6 | 463.7 | 477.8 | 494.9 | 511.1 | 528.2 | 545.3 | 565.5 |
| 157.5° | 449.0 | 449.8 | 454.6 | 463.5 | 472.9 | 483.8 | 497.6 | 512.1 | 524.8 | 539.1 | 554.6 |
| 160° | 458.7 | 458.7 | 462.7 | 470.7 | 477.8 | 487.9 | 500.0 | 512.1 | 523.2 | 534.2 | 547.3 |
| 162.5° | 466.0 | 466.0 | 469.2 | 475.5 | 481.8 | 490.3 | 500.8 | 511.3 | 520.0 | 529.4 | 540.1 |
| 165° | 476.8 | 475.7 | 477.8 | 482.8 | 486.9 | 493.9 | 502.0 | 509.1 | 515.1 | 522.2 | 530.2 |
| 167.5° | 485.0 | 483.8 | 484.8 | 488.7 | 491.5 | 495.9 | 501.8 | 507.5 | 510.3 | 514.9 | 520.8 |
| 170° | 489.9 | 487.9 | 488.9 | 491.9 | 493.9 | 495.9 | 501.0 | 505.0 | 507.1 | 510.1 | 515.1 |
| 172.5° | 493.1 | 491.9 | 492.1 | 494.3 | 495.5 | 496.8 | 501.0 | 504.2 | 504.6 | 506.0 | 509.5 |
| 175° | 497.0 | 495.9 | 494.9 | 497.0 | 497.0 | 498.0 | 500.0 | 502.0 | 501.0 | 501.0 | 503.0 |
| 177.5° | 498.8 | 498.0 | 497.2 | 498.0 | 498.0 | 498.0 | 498.8 | 500.4 | 498.8 | 498.0 | 498.8 |
| 180° | 498.0 | 498.0 | 498.0 | 498.0 | 498.0 | 498.0 | 498.0 | 498.0 | 498.0 | 498.0 | 498.0 |



TEST NUMBER: P332032-840

CATALOG NUMBER: S123DIP-S1000D1025U840-4F0-1E-UDD-D4

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1261.7 | 1261.7 | 1261.7 | 1261.7 | 1261.7 | 1261.7 | 1261.7 | 1261.7 |
| 2.5° | 1259.1 | 1261.0 | 1262.9 | 1263.8 | 1263.5 | 1263.3 | 1263.1 | 1262.8 |
| 5° | 1257.0 | 1259.5 | 1261.9 | 1262.9 | 1262.6 | 1262.3 | 1262.0 | 1261.7 |
| 7.5° | 1249.4 | 1252.5 | 1255.6 | 1256.9 | 1256.6 | 1256.2 | 1255.8 | 1255.5 |
| 10° | 1241.7 | 1244.8 | 1247.9 | 1249.1 | 1248.5 | 1247.9 | 1247.3 | 1246.7 |
| 12.5° | 1231.3 | 1234.2 | 1237.0 | 1238.1 | 1237.5 | 1236.9 | 1236.3 | 1235.7 |
| 15° | 1211.5 | 1214.6 | 1217.6 | 1219.0 | 1218.7 | 1218.4 | 1218.1 | 1217.8 |
| 17.5° | 1185.6 | 1188.4 | 1191.1 | 1192.2 | 1191.8 | 1191.4 | 1191.0 | 1190.5 |
| 20° | 1166.9 | 1169.6 | 1172.5 | 1174.0 | 1174.3 | 1174.6 | 1174.9 | 1175.2 |
| 22.5° | 1146.4 | 1149.8 | 1153.4 | 1155.0 | 1154.8 | 1154.7 | 1154.5 | 1154.3 |
| 25° | 1111.7 | 1115.6 | 1119.5 | 1121.6 | 1121.6 | 1121.6 | 1121.6 | 1121.6 |
| 27.5° | 1075.3 | 1078.7 | 1082.2 | 1084.0 | 1084.3 | 1084.5 | 1084.8 | 1085.0 |
| 30° | 1050.6 | 1054.2 | 1057.8 | 1059.8 | 1059.8 | 1059.8 | 1059.8 | 1059.8 |
| 32.5° | 1023.6 | 1027.4 | 1031.4 | 1033.7 | 1034.4 | 1035.1 | 1035.9 | 1036.6 |
| 35° | 983.6 | 988.3 | 992.8 | 995.7 | 996.9 | 998.2 | 999.4 | 1000.6 |
| 37.5° | 942.3 | 947.5 | 952.7 | 955.7 | 956.7 | 957.7 | 958.7 | 959.7 |
| 40° | 914.7 | 920.0 | 925.1 | 928.4 | 929.6 | 930.8 | 932.0 | 933.2 |
| 42.5° | 886.1 | 891.7 | 897.5 | 901.1 | 902.8 | 904.5 | 906.3 | 908.0 |
| 45° | 843.1 | 849.0 | 854.7 | 858.9 | 861.3 | 863.7 | 866.3 | 868.7 |
| 47.5° | 799.8 | 806.4 | 812.8 | 817.1 | 819.0 | 820.9 | 822.7 | 824.7 |
| 50° | 770.0 | 777.0 | 784.1 | 788.6 | 790.8 | 792.9 | 795.1 | 797.2 |
| 52.5° | 739.7 | 747.0 | 754.3 | 759.2 | 761.8 | 764.5 | 767.1 | 769.7 |
| 55° | 694.1 | 702.4 | 710.6 | 715.9 | 718.4 | 720.8 | 723.3 | 725.7 |
| 57.5° | 647.5 | 655.8 | 664.1 | 669.7 | 672.6 | 675.4 | 678.3 | 681.2 |
| 60° | 615.0 | 623.6 | 632.1 | 638.0 | 641.5 | 644.8 | 648.1 | 651.5 |
| 62.5° | 584.2 | 592.8 | 601.3 | 607.1 | 610.3 | 613.4 | 616.5 | 619.7 |
| 65° | 535.1 | 544.3 | 553.4 | 559.6 | 562.6 | 565.6 | 568.8 | 571.8 |
| 67.5° | 486.3 | 496.2 | 506.2 | 512.6 | 515.1 | 517.8 | 520.3 | 522.8 |
| 70° | 453.8 | 463.6 | 473.4 | 479.9 | 482.9 | 485.9 | 489.0 | 492.1 |
| 72.5° | 421.4 | 431.4 | 441.4 | 448.0 | 451.0 | 454.0 | 457.2 | 460.2 |
| 75° | 372.0 | 382.1 | 392.1 | 399.1 | 402.7 | 406.4 | 410.0 | 413.7 |
| 77.5° | 325.9 | 336.5 | 347.1 | 353.9 | 356.6 | 359.4 | 362.2 | 365.1 |
| 80° | 295.7 | 306.1 | 316.4 | 323.2 | 326.2 | 329.2 | 332.3 | 335.4 |
| 82.5° | 268.2 | 278.5 | 288.9 | 295.7 | 298.7 | 301.7 | 304.8 | 307.9 |
| 85° | 229.6 | 240.0 | 250.4 | 257.2 | 260.2 | 263.3 | 266.3 | 269.4 |
| 87.5° | 201.0 | 211.5 | 222.1 | 229.2 | 232.1 | 235.3 | 238.5 | 241.5 |
| 90° | 201.3 | 212.7 | 224.1 | 232.8 | 234.9 | 238.9 | 243.0 | 245.0 |
| 92.5° | 251.7 | 244.3 | 246.5 | 247.8 | 248.8 | 248.5 | 252.4 | 253.4 |
| 95° | 517.9 | 410.4 | 366.5 | 336.5 | 320.3 | 314.4 | 310.3 | 309.3 |
| 97.5° | 1048.9 | 878.1 | 757.1 | 642.7 | 571.3 | 529.0 | 504.8 | 499.2 |
| 100° | 1325.8 | 1252.9 | 1143.9 | 1006.7 | 908.0 | 837.4 | 801.1 | 805.2 |
| 102.5° | 1413.0 | 1419.1 | 1358.9 | 1273.9 | 1197.8 | 1142.6 | 1112.8 | 1092.7 |
| 105° | 1430.6 | 1539.9 | 1567.7 | 1547.1 | 1503.5 | 1467.9 | 1438.5 | 1436.1 |
| 107.5° | 1340.8 | 1512.7 | 1609.2 | 1650.5 | 1654.1 | 1643.9 | 1635.6 | 1629.0 |
| 110° | 1259.0 | 1452.5 | 1587.4 | 1663.1 | 1693.8 | 1704.3 | 1704.8 | 1705.2 |



TEST NUMBER: P332032-840

CATALOG NUMBER: S123DIP-S1000D1025U840-4F0-1E-UDD-D4

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 1177.0 | 1374.1 | 1524.2 | 1620.1 | 1674.5 | 1702.1 | 1712.4 | 1715.6 |
| 115° | 1068.3 | 1251.0 | 1406.5 | 1521.4 | 1599.3 | 1646.2 | 1668.8 | 1676.3 |
| 117.5° | 986.6 | 1145.3 | 1285.6 | 1401.9 | 1483.1 | 1536.3 | 1567.7 | 1577.0 |
| 120° | 942.7 | 1085.8 | 1213.9 | 1320.2 | 1402.0 | 1460.6 | 1486.9 | 1495.1 |
| 122.5° | 906.9 | 1036.8 | 1155.7 | 1254.8 | 1327.7 | 1380.6 | 1409.4 | 1419.2 |
| 125° | 858.2 | 974.5 | 1077.6 | 1162.6 | 1229.2 | 1275.8 | 1303.0 | 1312.2 |
| 127.5° | 814.6 | 918.6 | 1011.9 | 1089.3 | 1148.9 | 1188.9 | 1213.8 | 1222.2 |
| 130° | 786.8 | 883.3 | 970.8 | 1043.1 | 1098.3 | 1136.5 | 1159.5 | 1169.4 |
| 132.5° | 760.6 | 849.7 | 931.2 | 1000.4 | 1052.6 | 1091.0 | 1111.9 | 1119.5 |
| 135° | 725.1 | 802.1 | 873.1 | 934.1 | 985.0 | 1016.8 | 1036.4 | 1045.0 |
| 137.5° | 692.3 | 755.8 | 817.1 | 870.0 | 913.1 | 945.2 | 962.1 | 968.3 |
| 140° | 672.9 | 728.9 | 781.8 | 828.3 | 868.1 | 897.9 | 915.5 | 916.0 |
| 142.5° | 653.8 | 702.1 | 748.1 | 788.6 | 822.7 | 849.3 | 865.4 | 865.9 |
| 145° | 632.9 | 668.6 | 703.3 | 734.4 | 760.8 | 783.2 | 792.4 | 795.7 |
| 147.5° | 615.9 | 643.1 | 669.8 | 691.6 | 711.8 | 727.2 | 736.0 | 737.8 |
| 150° | 604.8 | 628.0 | 649.1 | 668.6 | 684.4 | 696.1 | 702.8 | 703.4 |
| 152.5° | 595.9 | 615.9 | 634.7 | 650.7 | 662.7 | 673.1 | 676.8 | 676.9 |
| 155° | 582.6 | 598.7 | 613.9 | 626.0 | 635.1 | 643.1 | 645.1 | 646.1 |
| 157.5° | 568.6 | 582.0 | 593.7 | 603.2 | 611.1 | 617.1 | 618.7 | 618.5 |
| 160° | 560.5 | 571.6 | 581.6 | 588.7 | 595.7 | 601.8 | 601.8 | 600.8 |
| 162.5° | 550.8 | 560.3 | 569.6 | 575.8 | 580.5 | 585.6 | 585.6 | 584.6 |
| 165° | 538.3 | 544.3 | 551.4 | 556.4 | 560.5 | 564.5 | 563.5 | 563.5 |
| 167.5° | 527.4 | 532.0 | 536.0 | 539.7 | 541.5 | 544.3 | 543.3 | 543.3 |
| 170° | 520.2 | 523.2 | 527.1 | 529.2 | 530.2 | 532.2 | 531.2 | 531.2 |
| 172.5° | 513.7 | 515.9 | 519.2 | 520.4 | 520.6 | 522.6 | 520.8 | 520.0 |
| 175° | 505.0 | 506.0 | 508.1 | 508.1 | 508.1 | 509.1 | 508.1 | 507.1 |
| 177.5° | 499.6 | 500.4 | 501.2 | 501.2 | 500.4 | 501.2 | 499.6 | 499.6 |
| 180° | 498.0 | 498.0 | 498.0 | 498.0 | 498.0 | 498.0 | 498.0 | 498.0 |

(END OF REPORT)