

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: P332648-940

Luminaire Tested: **S124DIP-S1020D810U940-4F0-1E-UDD-D4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332648-940
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-18,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S124DIP-S1020D810U940-4F0-1E-UDD-D4
Description: DEFINE 4 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 1020 LUMENS PER FOOT, DROP SATIN WHITE DIFFUSER
UPLIGHT 810 LUMENS PER FOOT, BATWING OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6336.2 lumens
Efficiency: N/A
Efficacy: 116.5 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.08')
CIE Type: General Diffuse

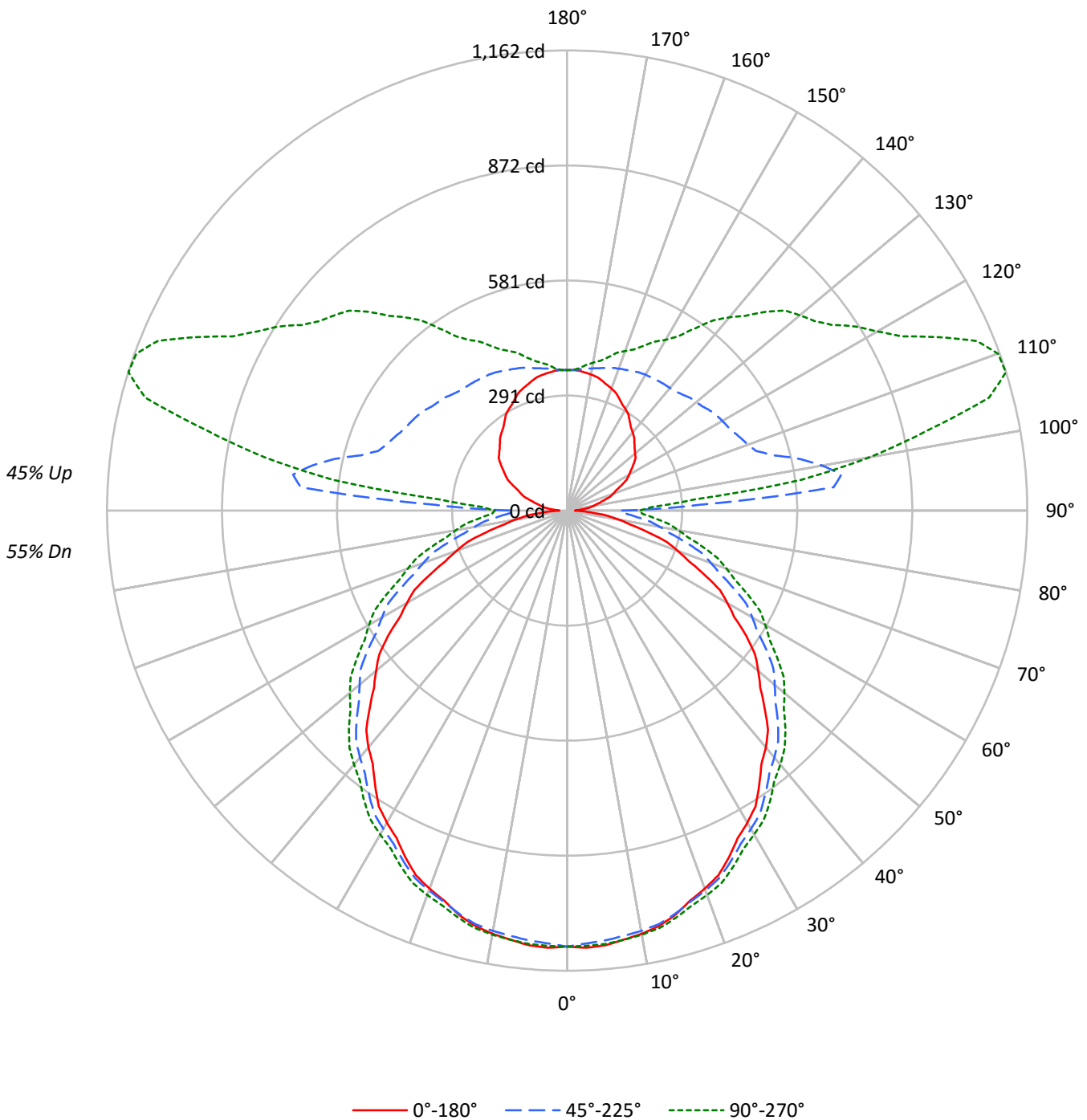
Input Watts (W): 54.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P332648-940

CATALOG NUMBER: S124DIP-S1020D810U940-4F0-1E-UDD-D4

Luminous Intensity Polar Plot





TEST NUMBER: P332648-940

CATALOG NUMBER: S124DIP-S1020D810U940-4F0-1E-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 | 108 | 108 | 108 | 108 | 101 | 101 | 101 | 101 | 86 | 86 | 86 | 73 | 73 | 73 | 61 | 61 | 61 | 55 |
| 1 | 98 | 93 | 89 | 85 | 90 | 86 | 82 | 79 | 74 | 71 | 68 | 62 | 60 | 58 | 52 | 50 | 49 | 44 |
| 2 | 89 | 80 | 74 | 68 | 82 | 75 | 69 | 64 | 64 | 60 | 56 | 54 | 51 | 48 | 45 | 42 | 40 | 36 |
| 3 | 80 | 70 | 63 | 56 | 74 | 65 | 58 | 53 | 56 | 51 | 46 | 47 | 43 | 40 | 39 | 36 | 34 | 30 |
| 4 | 73 | 62 | 54 | 47 | 68 | 58 | 50 | 45 | 50 | 44 | 39 | 42 | 38 | 34 | 35 | 32 | 29 | 25 |
| 5 | 67 | 55 | 47 | 40 | 62 | 51 | 44 | 38 | 44 | 38 | 34 | 38 | 33 | 29 | 31 | 28 | 25 | 22 |
| 6 | 62 | 49 | 41 | 35 | 57 | 46 | 38 | 33 | 40 | 34 | 29 | 34 | 29 | 25 | 28 | 25 | 22 | 19 |
| 7 | 57 | 44 | 36 | 30 | 53 | 42 | 34 | 29 | 36 | 30 | 26 | 31 | 26 | 22 | 26 | 22 | 19 | 17 |
| 8 | 53 | 40 | 32 | 27 | 49 | 38 | 30 | 25 | 33 | 27 | 23 | 28 | 23 | 20 | 24 | 20 | 17 | 15 |
| 9 | 49 | 37 | 29 | 24 | 46 | 34 | 27 | 23 | 30 | 24 | 20 | 26 | 21 | 18 | 22 | 18 | 15 | 13 |
| 10 | 46 | 34 | 26 | 21 | 43 | 32 | 25 | 20 | 28 | 22 | 18 | 24 | 19 | 16 | 20 | 17 | 14 | 12 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 8888 | 8888 | 8888 |
| 5° | 8916 | 8686 | 8711 |
| 10° | 8861 | 8544 | 8538 |
| 15° | 8782 | 8380 | 8334 |
| 20° | 8662 | 8198 | 8135 |
| 25° | 8527 | 7995 | 7918 |
| 30° | 8381 | 7793 | 7693 |
| 35° | 8216 | 7585 | 7497 |
| 40° | 8083 | 7388 | 7292 |
| 45° | 7887 | 7207 | 7117 |
| 50° | 7721 | 6996 | 6931 |
| 55° | 7549 | 6799 | 6714 |
| 60° | 7282 | 6547 | 6515 |
| 65° | 6989 | 6278 | 6271 |
| 70° | 6633 | 5968 | 5986 |
| 75° | 6136 | 5628 | 5730 |
| 80° | 5588 | 5302 | 5476 |
| 85° | 4893 | 5013 | 5328 |



TEST NUMBER: P332648-940

CATALOG NUMBER: S124DIP-S1020D810U940-4F0-1E-UDD-D4

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 104.3 | 1.6 |
| 10°-20° | 298.7 | 4.7 |
| 20°-30° | 451.7 | 7.1 |
| 30°-40° | 546.5 | 8.6 |
| 40°-50° | 577.7 | 9.1 |
| 50°-60° | 543.7 | 8.6 |
| 60°-70° | 451.1 | 7.1 |
| 70°-80° | 316.9 | 5.0 |
| 80°-90° | 181.1 | 2.9 |
| 90°-100° | 362.7 | 5.7 |
| 100°-110° | 612.2 | 9.7 |
| 110°-120° | 530.7 | 8.4 |
| 120°-130° | 431.8 | 6.8 |
| 130°-140° | 348.0 | 5.5 |
| 140°-150° | 258.7 | 4.1 |
| 150°-160° | 180.0 | 2.8 |
| 160°-170° | 105.9 | 1.7 |
| 170°-180° | 34.4 | 0.5 |
| 0°-30° | 854.6 | 13.5 |
| 0°-40° | 1401.1 | 22.1 |
| 0°-60° | 2522.6 | 39.8 |
| 0°-90° | 3471.7 | 54.8 |
| 90°-120° | 1505.7 | 23.8 |
| 90°-150° | 2544.1 | 40.2 |
| 90°-180° | 2864.0 | 45.2 |
| 0°-180° | 6336.2 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 1101 | 1101 | 1101 | 1101 | 1101 | |
| 5° | 1102 | 1098 | 1090 | 1099 | 1098 | 105 |
| 15° | 1057 | 1058 | 1054 | 1065 | 1064 | 298 |
| 25° | 967 | 974 | 978 | 991 | 992 | 445 |
| 35° | 846 | 860 | 873 | 889 | 894 | 529 |
| 45° | 705 | 729 | 752 | 772 | 779 | 545 |
| 55° | 552 | 579 | 615 | 639 | 647 | 492 |
| 65° | 382 | 422 | 464 | 493 | 504 | 379 |
| 75° | 212 | 258 | 309 | 343 | 355 | 226 |
| 85° | 65 | 117 | 173 | 208 | 222 | 70 |
| 90° | 20 | 75 | 135 | 170 | 182 | 14 |
| 95° | 39 | 130 | 676 | 421 | 322 | 38 |
| 105° | 93 | 155 | 539 | 1096 | 1103 | 99 |
| 115° | 151 | 200 | 466 | 868 | 1036 | 150 |
| 125° | 205 | 243 | 440 | 724 | 817 | 183 |
| 135° | 240 | 286 | 413 | 622 | 710 | 186 |
| 145° | 275 | 314 | 400 | 506 | 561 | 173 |
| 155° | 312 | 336 | 389 | 441 | 460 | 144 |
| 165° | 340 | 350 | 373 | 395 | 401 | 96 |
| 175° | 354 | 355 | 358 | 363 | 361 | 34 |
| 180° | 355 | 355 | 355 | 355 | 355 | |



TEST NUMBER: P332648-940

CATALOG NUMBER: S124DIP-S1020D810U940-4F0-1E-UDD-D4

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1101.0 | 1101.0 | 1101.0 | 1101.0 | 1101.0 | 1101.0 | 1101.0 | 1101.0 | 1101.0 | 1101.0 | 1101.0 |
| 2.5° | 1104.9 | 1104.3 | 1103.6 | 1103.0 | 1102.2 | 1101.1 | 1099.3 | 1097.6 | 1095.8 | 1094.0 | 1095.6 |
| 5° | 1102.2 | 1101.4 | 1100.5 | 1099.7 | 1098.9 | 1097.5 | 1095.6 | 1093.7 | 1091.8 | 1089.8 | 1092.1 |
| 7.5° | 1092.8 | 1092.3 | 1091.8 | 1091.4 | 1090.8 | 1089.8 | 1088.2 | 1086.6 | 1085.0 | 1083.4 | 1085.9 |
| 10° | 1084.9 | 1084.7 | 1084.4 | 1084.1 | 1083.9 | 1083.0 | 1081.6 | 1080.3 | 1078.9 | 1077.5 | 1080.0 |
| 12.5° | 1074.1 | 1074.1 | 1074.0 | 1073.9 | 1073.9 | 1073.4 | 1072.5 | 1071.5 | 1070.6 | 1069.6 | 1071.9 |
| 15° | 1056.6 | 1056.9 | 1057.1 | 1057.4 | 1057.7 | 1057.4 | 1056.6 | 1055.8 | 1054.9 | 1054.1 | 1056.6 |
| 17.5° | 1032.7 | 1033.5 | 1034.3 | 1035.1 | 1036.0 | 1036.3 | 1036.1 | 1036.0 | 1035.8 | 1035.6 | 1038.1 |
| 20° | 1015.9 | 1016.7 | 1017.5 | 1018.3 | 1019.2 | 1019.8 | 1020.0 | 1020.3 | 1020.6 | 1020.8 | 1023.6 |
| 22.5° | 997.1 | 998.2 | 999.3 | 1000.3 | 1001.3 | 1002.1 | 1002.6 | 1003.1 | 1003.5 | 1004.1 | 1006.8 |
| 25° | 966.6 | 968.2 | 969.8 | 971.5 | 973.1 | 974.4 | 975.2 | 976.1 | 976.9 | 977.7 | 980.7 |
| 27.5° | 932.6 | 935.0 | 937.4 | 939.8 | 942.2 | 944.1 | 945.3 | 946.6 | 947.8 | 949.0 | 951.9 |
| 30° | 909.9 | 912.0 | 914.3 | 916.4 | 918.6 | 920.7 | 922.6 | 924.5 | 926.4 | 928.4 | 931.4 |
| 32.5° | 885.2 | 887.9 | 890.5 | 893.1 | 895.7 | 898.1 | 900.3 | 902.4 | 904.6 | 906.7 | 910.1 |
| 35° | 845.8 | 849.1 | 852.3 | 855.6 | 858.9 | 861.9 | 864.7 | 867.4 | 870.1 | 872.9 | 876.7 |
| 37.5° | 806.0 | 809.9 | 813.6 | 817.4 | 821.2 | 824.7 | 828.1 | 831.5 | 835.0 | 838.4 | 842.2 |
| 40° | 780.4 | 784.0 | 787.6 | 791.1 | 794.7 | 798.3 | 802.2 | 806.0 | 809.9 | 813.7 | 817.8 |
| 42.5° | 750.8 | 754.8 | 758.8 | 762.9 | 766.8 | 771.1 | 775.5 | 780.1 | 784.5 | 789.1 | 793.6 |
| 45° | 705.2 | 710.4 | 715.6 | 720.9 | 726.0 | 731.2 | 736.5 | 741.6 | 746.8 | 752.1 | 756.7 |
| 47.5° | 661.6 | 666.9 | 672.3 | 677.7 | 683.1 | 688.8 | 694.7 | 700.8 | 706.9 | 712.8 | 717.6 |
| 50° | 630.0 | 636.1 | 642.0 | 648.1 | 654.1 | 660.1 | 666.2 | 672.2 | 678.2 | 684.2 | 689.7 |
| 52.5° | 598.4 | 604.5 | 610.5 | 616.5 | 622.6 | 629.0 | 635.9 | 642.8 | 649.7 | 656.7 | 662.1 |
| 55° | 552.3 | 558.1 | 563.8 | 569.6 | 575.3 | 582.3 | 590.6 | 598.8 | 607.0 | 615.2 | 620.7 |
| 57.5° | 500.8 | 507.9 | 515.1 | 522.2 | 529.3 | 536.9 | 545.1 | 553.3 | 561.4 | 569.6 | 576.1 |
| 60° | 467.3 | 474.4 | 481.5 | 488.7 | 495.8 | 503.8 | 512.9 | 521.9 | 530.9 | 540.0 | 546.3 |
| 62.5° | 434.7 | 442.5 | 450.3 | 458.1 | 465.8 | 474.2 | 483.3 | 492.3 | 501.4 | 510.4 | 516.7 |
| 65° | 382.2 | 390.9 | 399.8 | 408.5 | 417.2 | 426.3 | 435.6 | 445.0 | 454.2 | 463.6 | 470.4 |
| 67.5° | 331.6 | 341.0 | 350.3 | 359.6 | 368.9 | 378.5 | 388.5 | 398.5 | 408.5 | 418.5 | 425.4 |
| 70° | 297.1 | 306.5 | 315.8 | 325.0 | 334.4 | 344.3 | 354.6 | 365.1 | 375.5 | 385.9 | 393.3 |
| 72.5° | 263.6 | 273.1 | 282.7 | 292.2 | 301.8 | 312.0 | 323.1 | 334.1 | 345.3 | 356.3 | 363.5 |
| 75° | 212.0 | 222.2 | 232.3 | 242.5 | 252.6 | 263.4 | 274.9 | 286.4 | 297.9 | 309.4 | 317.1 |
| 77.5° | 164.0 | 174.7 | 185.5 | 196.2 | 207.0 | 218.3 | 230.4 | 242.5 | 254.5 | 266.5 | 274.3 |
| 80° | 134.4 | 145.3 | 156.3 | 167.3 | 178.3 | 189.8 | 201.8 | 213.8 | 225.9 | 237.9 | 246.2 |
| 82.5° | 104.8 | 116.2 | 127.6 | 139.0 | 150.3 | 162.1 | 174.2 | 186.2 | 198.3 | 210.4 | 218.7 |
| 85° | 65.4 | 76.9 | 88.4 | 99.9 | 111.4 | 123.3 | 135.6 | 147.9 | 160.2 | 172.6 | 180.8 |
| 87.5° | 36.6 | 48.1 | 59.7 | 71.0 | 82.3 | 93.9 | 106.7 | 118.8 | 131.0 | 143.3 | 151.1 |
| 90° | 20.4 | 32.8 | 45.8 | 57.5 | 69.1 | 80.5 | 96.5 | 108.3 | 121.5 | 134.6 | 141.9 |
| 92.5° | 26.7 | 40.2 | 56.6 | 75.0 | 95.0 | 120.3 | 167.6 | 233.4 | 297.9 | 337.3 | 308.1 |
| 95° | 39.1 | 50.2 | 66.2 | 84.3 | 110.0 | 149.5 | 221.4 | 347.0 | 524.9 | 675.6 | 698.9 |
| 97.5° | 55.8 | 63.6 | 77.4 | 93.5 | 115.7 | 149.6 | 207.5 | 313.1 | 489.8 | 698.1 | 840.9 |
| 100° | 66.5 | 73.7 | 85.7 | 101.2 | 121.5 | 152.8 | 204.6 | 294.1 | 447.0 | 654.2 | 840.2 |
| 102.5° | 77.7 | 85.1 | 95.7 | 109.7 | 128.7 | 158.2 | 205.9 | 285.6 | 417.1 | 601.9 | 793.2 |
| 105° | 92.6 | 100.2 | 109.2 | 123.1 | 141.1 | 169.2 | 212.8 | 280.7 | 388.5 | 538.8 | 709.4 |
| 107.5° | 111.6 | 117.5 | 125.6 | 138.9 | 155.4 | 182.4 | 222.7 | 285.0 | 378.0 | 500.3 | 640.9 |
| 110° | 123.5 | 128.8 | 136.1 | 148.3 | 164.7 | 190.2 | 230.4 | 288.8 | 375.1 | 485.8 | 605.8 |



TEST NUMBER: P332648-940

CATALOG NUMBER: S124DIP-S1020D810U940-4F0-1E-UDD-D4

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 134.8 | 139.6 | 147.0 | 158.3 | 174.2 | 199.3 | 238.0 | 293.2 | 374.0 | 475.9 | 583.4 |
| 115° | 151.1 | 155.6 | 162.9 | 172.4 | 188.1 | 212.5 | 249.1 | 299.8 | 373.4 | 465.8 | 559.7 |
| 117.5° | 169.2 | 172.6 | 178.4 | 187.6 | 201.4 | 225.8 | 260.5 | 307.1 | 373.4 | 457.7 | 544.7 |
| 120° | 180.5 | 182.7 | 188.4 | 196.9 | 209.6 | 233.4 | 267.9 | 312.1 | 373.7 | 452.8 | 535.7 |
| 122.5° | 191.6 | 193.2 | 198.2 | 205.5 | 218.6 | 241.5 | 275.4 | 317.0 | 374.3 | 447.3 | 526.3 |
| 125° | 205.0 | 207.6 | 211.4 | 218.8 | 231.8 | 254.7 | 286.6 | 325.6 | 376.3 | 440.3 | 512.5 |
| 127.5° | 217.8 | 219.7 | 224.4 | 233.0 | 246.5 | 268.7 | 298.2 | 332.9 | 376.5 | 431.4 | 494.9 |
| 130° | 224.0 | 226.6 | 231.8 | 242.0 | 255.0 | 277.3 | 305.4 | 337.0 | 376.9 | 425.9 | 483.8 |
| 132.5° | 231.3 | 233.3 | 240.2 | 249.9 | 263.9 | 284.6 | 311.8 | 342.0 | 377.7 | 421.4 | 474.1 |
| 135° | 240.2 | 243.0 | 249.9 | 261.8 | 276.5 | 295.6 | 320.5 | 347.5 | 378.0 | 413.4 | 458.3 |
| 137.5° | 250.4 | 252.8 | 260.2 | 271.2 | 286.1 | 303.7 | 326.2 | 350.5 | 376.8 | 407.6 | 445.0 |
| 140° | 257.6 | 259.5 | 266.9 | 278.5 | 292.8 | 309.5 | 330.7 | 353.3 | 377.3 | 404.1 | 437.7 |
| 142.5° | 264.5 | 266.5 | 273.6 | 284.8 | 298.8 | 315.0 | 335.1 | 355.6 | 378.0 | 402.1 | 431.9 |
| 145° | 275.3 | 277.1 | 283.7 | 293.3 | 306.2 | 321.5 | 339.6 | 358.4 | 378.6 | 400.2 | 424.2 |
| 147.5° | 287.7 | 288.1 | 293.9 | 303.7 | 314.4 | 328.1 | 345.2 | 361.6 | 379.3 | 397.7 | 417.6 |
| 150° | 295.5 | 295.9 | 301.2 | 309.3 | 319.5 | 332.6 | 347.9 | 363.3 | 379.3 | 396.0 | 413.5 |
| 152.5° | 301.8 | 301.8 | 307.4 | 315.1 | 324.4 | 336.5 | 350.2 | 364.4 | 378.2 | 393.2 | 409.0 |
| 155° | 311.7 | 312.4 | 316.6 | 323.5 | 331.2 | 341.6 | 353.5 | 365.3 | 376.5 | 389.1 | 402.3 |
| 157.5° | 321.6 | 321.6 | 325.5 | 330.9 | 337.6 | 345.8 | 355.9 | 365.3 | 374.7 | 384.8 | 395.5 |
| 160° | 327.7 | 327.7 | 330.5 | 335.4 | 341.0 | 348.7 | 357.0 | 365.3 | 373.0 | 381.4 | 390.5 |
| 162.5° | 333.3 | 332.7 | 334.9 | 339.3 | 344.3 | 350.3 | 358.1 | 365.3 | 371.4 | 378.1 | 386.0 |
| 165° | 339.6 | 339.6 | 341.0 | 344.5 | 347.9 | 352.1 | 358.4 | 364.0 | 368.2 | 373.0 | 378.6 |
| 167.5° | 345.8 | 345.2 | 345.8 | 348.5 | 350.4 | 353.7 | 358.3 | 362.3 | 364.8 | 368.0 | 371.9 |
| 170° | 348.7 | 347.9 | 348.7 | 350.7 | 352.1 | 354.2 | 357.7 | 361.1 | 362.6 | 364.6 | 367.5 |
| 172.5° | 351.4 | 350.7 | 350.9 | 352.4 | 353.2 | 354.7 | 357.1 | 360.1 | 360.3 | 361.3 | 363.6 |
| 175° | 354.2 | 353.5 | 353.5 | 354.2 | 354.9 | 354.9 | 356.3 | 358.4 | 357.7 | 357.7 | 359.1 |
| 177.5° | 355.4 | 354.9 | 354.4 | 354.9 | 354.9 | 354.9 | 355.4 | 356.6 | 355.4 | 355.4 | 356.0 |
| 180° | 354.9 | 354.9 | 354.9 | 354.9 | 354.9 | 354.9 | 354.9 | 354.9 | 354.9 | 354.9 | 354.9 |



TEST NUMBER: P332648-940

CATALOG NUMBER: S124DIP-S1020D810U940-4F0-1E-UDD-D4

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1101.0 | 1101.0 | 1101.0 | 1101.0 | 1101.0 | 1101.0 | 1101.0 | 1101.0 |
| 2.5° | 1097.2 | 1098.7 | 1100.2 | 1100.8 | 1100.6 | 1100.4 | 1100.2 | 1100.0 |
| 5° | 1094.2 | 1096.4 | 1098.7 | 1099.6 | 1099.3 | 1099.0 | 1098.8 | 1098.5 |
| 7.5° | 1088.4 | 1090.8 | 1093.3 | 1094.4 | 1094.1 | 1093.9 | 1093.6 | 1093.3 |
| 10° | 1082.4 | 1084.9 | 1087.4 | 1088.5 | 1088.2 | 1088.0 | 1087.7 | 1087.4 |
| 12.5° | 1074.2 | 1076.4 | 1078.6 | 1079.8 | 1079.7 | 1079.6 | 1079.6 | 1079.5 |
| 15° | 1059.1 | 1061.5 | 1064.0 | 1065.1 | 1064.8 | 1064.5 | 1064.3 | 1064.0 |
| 17.5° | 1040.6 | 1043.2 | 1045.7 | 1046.9 | 1046.6 | 1046.4 | 1046.2 | 1046.0 |
| 20° | 1026.3 | 1029.0 | 1031.8 | 1033.1 | 1033.1 | 1033.1 | 1033.1 | 1033.1 |
| 22.5° | 1009.5 | 1012.3 | 1015.0 | 1016.6 | 1017.1 | 1017.4 | 1017.9 | 1018.3 |
| 25° | 983.7 | 986.7 | 989.7 | 991.4 | 991.7 | 991.9 | 992.2 | 992.5 |
| 27.5° | 954.7 | 957.4 | 960.3 | 961.8 | 962.2 | 962.5 | 962.8 | 963.1 |
| 30° | 934.4 | 937.4 | 940.4 | 942.2 | 942.7 | 943.3 | 943.9 | 944.4 |
| 32.5° | 913.6 | 917.0 | 920.5 | 922.5 | 923.0 | 923.5 | 924.1 | 924.7 |
| 35° | 880.6 | 884.4 | 888.2 | 890.6 | 891.4 | 892.2 | 893.0 | 893.9 |
| 37.5° | 846.1 | 850.1 | 853.9 | 856.3 | 857.2 | 858.1 | 858.9 | 859.8 |
| 40° | 821.9 | 826.0 | 830.2 | 832.8 | 833.8 | 834.9 | 836.1 | 837.1 |
| 42.5° | 798.2 | 802.7 | 807.3 | 809.9 | 810.8 | 811.7 | 812.6 | 813.4 |
| 45° | 761.3 | 766.1 | 770.7 | 773.7 | 775.1 | 776.4 | 777.8 | 779.2 |
| 47.5° | 722.5 | 727.3 | 732.2 | 735.4 | 737.0 | 738.7 | 740.3 | 742.0 |
| 50° | 695.2 | 700.7 | 706.1 | 709.7 | 711.4 | 713.0 | 714.6 | 716.3 |
| 52.5° | 667.6 | 673.1 | 678.6 | 682.1 | 683.8 | 685.4 | 687.1 | 688.7 |
| 55° | 626.2 | 631.7 | 637.1 | 640.7 | 642.3 | 644.0 | 645.6 | 647.3 |
| 57.5° | 582.6 | 589.2 | 595.7 | 599.7 | 601.2 | 602.8 | 604.3 | 605.8 |
| 60° | 552.6 | 558.9 | 565.2 | 569.4 | 571.7 | 573.8 | 576.0 | 578.2 |
| 62.5° | 523.0 | 529.3 | 535.7 | 539.8 | 542.1 | 544.2 | 546.4 | 548.7 |
| 65° | 477.2 | 484.1 | 491.0 | 495.5 | 497.7 | 499.9 | 502.0 | 504.3 |
| 67.5° | 432.4 | 439.3 | 446.3 | 450.8 | 453.0 | 455.1 | 457.3 | 459.4 |
| 70° | 400.6 | 408.0 | 415.4 | 420.2 | 422.0 | 424.0 | 425.9 | 427.8 |
| 72.5° | 370.7 | 377.8 | 385.0 | 389.7 | 391.8 | 394.0 | 396.1 | 398.2 |
| 75° | 324.8 | 332.4 | 340.1 | 345.2 | 347.7 | 350.2 | 352.6 | 355.1 |
| 77.5° | 282.1 | 289.9 | 297.7 | 302.9 | 305.5 | 308.2 | 310.8 | 313.4 |
| 80° | 254.4 | 262.6 | 270.8 | 276.0 | 278.2 | 280.4 | 282.6 | 284.8 |
| 82.5° | 227.2 | 235.7 | 244.1 | 249.5 | 251.9 | 254.3 | 256.7 | 259.1 |
| 85° | 189.0 | 197.2 | 205.5 | 211.0 | 213.7 | 216.4 | 219.2 | 221.9 |
| 87.5° | 159.2 | 167.3 | 175.4 | 180.6 | 183.1 | 185.7 | 187.9 | 190.3 |
| 90° | 150.5 | 159.2 | 167.8 | 172.8 | 175.8 | 178.6 | 180.1 | 182.4 |
| 92.5° | 268.5 | 242.4 | 229.1 | 220.1 | 214.0 | 212.4 | 212.2 | 214.5 |
| 95° | 638.7 | 538.1 | 452.0 | 389.3 | 357.6 | 338.5 | 328.3 | 321.7 |
| 97.5° | 877.4 | 844.4 | 783.4 | 715.3 | 667.6 | 627.9 | 609.4 | 597.3 |
| 100° | 949.4 | 970.7 | 944.0 | 897.0 | 838.3 | 797.6 | 778.6 | 775.0 |
| 102.5° | 940.1 | 1016.5 | 1033.5 | 1016.7 | 981.6 | 953.0 | 933.0 | 930.7 |
| 105° | 876.0 | 1003.4 | 1079.3 | 1112.4 | 1116.1 | 1112.7 | 1105.1 | 1103.0 |
| 107.5° | 789.0 | 924.2 | 1028.1 | 1094.7 | 1131.0 | 1149.0 | 1157.9 | 1161.6 |
| 110° | 736.2 | 863.1 | 970.5 | 1051.5 | 1103.1 | 1134.6 | 1149.4 | 1157.9 |



TEST NUMBER: P332648-940

CATALOG NUMBER: S124DIP-S1020D810U940-4F0-1E-UDD-D4

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|-------|-------|-------|-------|--------|--------|--------|--------|
| 112.5° | 695.7 | 808.4 | 910.1 | 990.9 | 1049.3 | 1086.9 | 1106.6 | 1119.0 |
| 115° | 652.9 | 744.7 | 832.3 | 903.2 | 960.2 | 1004.0 | 1028.1 | 1035.7 |
| 117.5° | 627.6 | 704.3 | 774.1 | 834.8 | 884.0 | 921.3 | 946.1 | 952.6 |
| 120° | 614.4 | 684.7 | 745.9 | 799.3 | 841.2 | 874.1 | 894.4 | 904.3 |
| 122.5° | 602.7 | 670.8 | 727.1 | 774.2 | 809.8 | 837.9 | 855.2 | 864.9 |
| 125° | 584.6 | 649.8 | 703.1 | 744.8 | 774.4 | 796.3 | 811.2 | 817.0 |
| 127.5° | 562.7 | 625.0 | 677.9 | 717.6 | 747.5 | 767.4 | 780.4 | 786.5 |
| 130° | 546.6 | 606.6 | 659.0 | 699.2 | 729.4 | 748.5 | 761.3 | 767.1 |
| 132.5° | 530.6 | 587.0 | 638.0 | 678.1 | 707.8 | 729.1 | 741.4 | 747.2 |
| 135° | 506.6 | 556.2 | 603.2 | 641.1 | 670.6 | 691.7 | 704.5 | 710.3 |
| 137.5° | 485.4 | 527.8 | 567.7 | 601.8 | 629.3 | 649.9 | 660.5 | 666.9 |
| 140° | 473.2 | 509.6 | 544.6 | 576.3 | 602.1 | 618.8 | 629.9 | 636.9 |
| 142.5° | 462.6 | 494.6 | 524.6 | 552.1 | 574.9 | 590.3 | 600.1 | 605.1 |
| 145° | 448.2 | 473.5 | 496.1 | 516.9 | 535.5 | 548.4 | 556.5 | 561.1 |
| 147.5° | 436.2 | 455.3 | 472.3 | 488.1 | 501.9 | 512.8 | 519.1 | 521.2 |
| 150° | 430.2 | 446.2 | 460.2 | 472.7 | 483.9 | 492.9 | 497.1 | 497.8 |
| 152.5° | 424.1 | 437.8 | 450.7 | 461.0 | 470.5 | 477.9 | 480.4 | 481.1 |
| 155° | 414.8 | 426.1 | 436.5 | 444.9 | 451.8 | 457.4 | 459.5 | 459.5 |
| 157.5° | 404.9 | 414.3 | 423.1 | 429.8 | 435.1 | 439.3 | 440.5 | 440.5 |
| 160° | 398.9 | 406.5 | 414.2 | 419.7 | 423.9 | 428.1 | 428.8 | 428.8 |
| 162.5° | 392.7 | 399.2 | 405.3 | 410.3 | 413.3 | 417.5 | 418.2 | 417.7 |
| 165° | 384.1 | 388.3 | 393.2 | 396.7 | 399.5 | 402.3 | 401.6 | 400.9 |
| 167.5° | 375.9 | 379.2 | 383.1 | 385.1 | 386.6 | 388.3 | 388.3 | 387.6 |
| 170° | 371.0 | 373.0 | 375.9 | 377.9 | 379.3 | 380.0 | 379.3 | 379.3 |
| 172.5° | 366.5 | 368.0 | 369.7 | 371.2 | 372.0 | 372.7 | 372.0 | 371.0 |
| 175° | 360.5 | 361.1 | 362.6 | 362.6 | 362.6 | 364.0 | 362.6 | 361.1 |
| 177.5° | 356.6 | 357.1 | 357.1 | 357.7 | 357.1 | 357.7 | 356.6 | 355.4 |
| 180° | 354.9 | 354.9 | 354.9 | 354.9 | 354.9 | 354.9 | 354.9 | 354.9 |

(END OF REPORT)