

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: P332702-935

Luminaire Tested: **S124DIP-S1195D1035U935-4F0-1E-UDD-D4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332702-935
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-S1195D1035U935-4F0-1E-UDD-D4
Description: DEFINE 4 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 1195 LUMENS PER FOOT, DROP SATIN WHITE DIFFUSER
UPLIGHT 1035 LUMENS PER FOOT, BATWING OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7369.6 lumens
Efficiency: N/A
Efficacy: 110.3 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

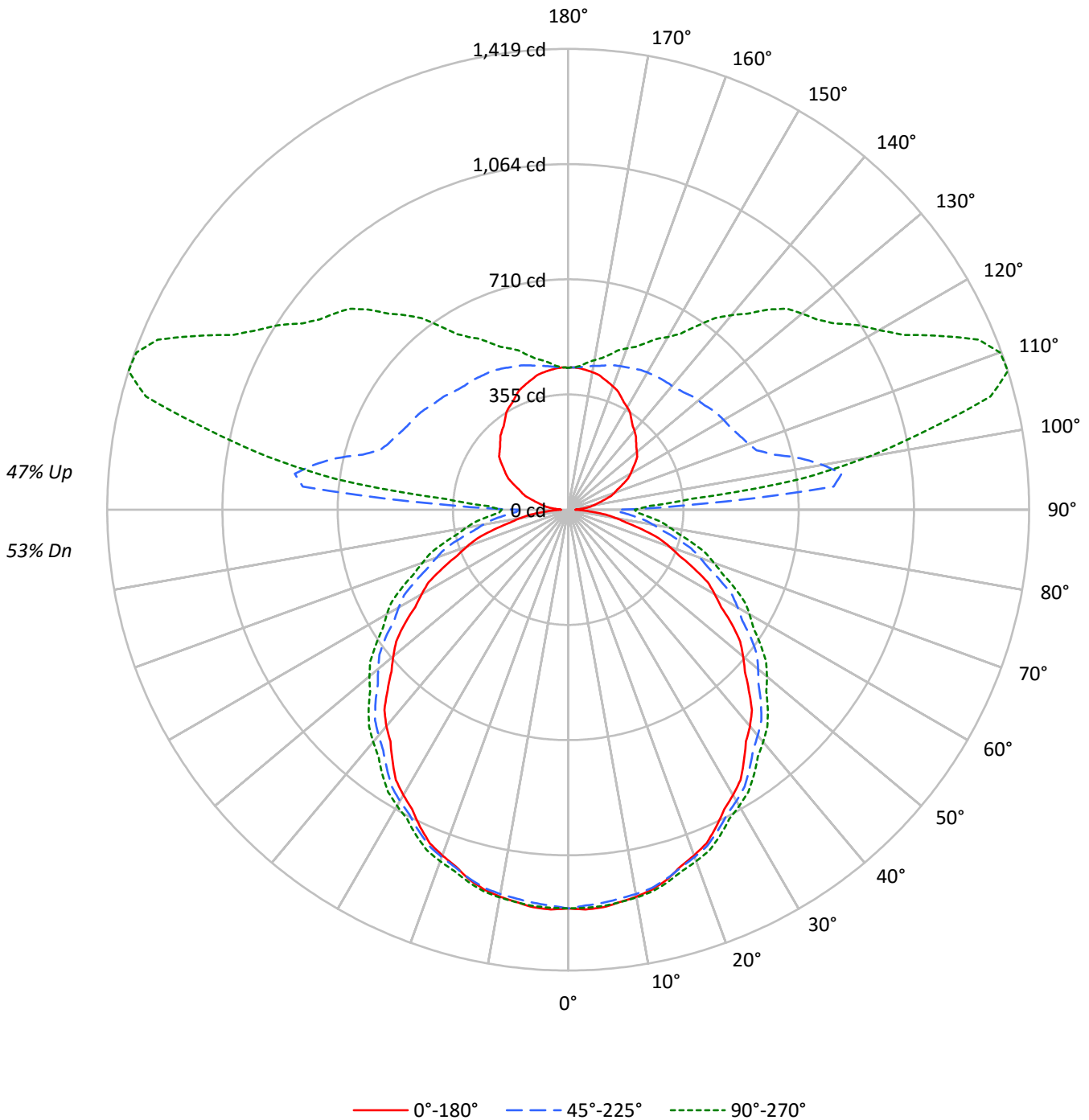
Input Watts (W): 66.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P332702-935

CATALOG NUMBER: S124DIP-S1195D1035U935-4F0-1E-UDD-D4

Luminous Intensity Polar Plot





TEST NUMBER: P332702-935

CATALOG NUMBER: S124DIP-S1195D1035U935-4F0-1E-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 | 100 | 100 | 100 | 100 | 85 | 85 | 85 | 71 | 71 | 71 | 58 | 58 | 58 | 53 |
| 1 | 97 | 92 | 88 | 84 | 90 | 86 | 82 | 78 | 73 | 70 | 67 | 61 | 59 | 57 | 50 | 49 | 47 | 42 |
| 2 | 88 | 80 | 74 | 68 | 81 | 74 | 68 | 64 | 63 | 59 | 55 | 53 | 50 | 47 | 43 | 41 | 39 | 34 |
| 3 | 80 | 70 | 62 | 56 | 74 | 65 | 58 | 53 | 55 | 50 | 46 | 46 | 42 | 39 | 38 | 35 | 33 | 29 |
| 4 | 73 | 62 | 53 | 47 | 67 | 57 | 50 | 44 | 49 | 43 | 39 | 41 | 37 | 33 | 34 | 31 | 28 | 24 |
| 5 | 67 | 55 | 46 | 40 | 62 | 51 | 43 | 38 | 44 | 38 | 33 | 37 | 32 | 28 | 30 | 27 | 24 | 21 |
| 6 | 62 | 49 | 41 | 35 | 57 | 46 | 38 | 33 | 39 | 33 | 29 | 33 | 28 | 25 | 27 | 24 | 21 | 18 |
| 7 | 57 | 44 | 36 | 30 | 52 | 41 | 34 | 29 | 35 | 29 | 25 | 30 | 25 | 22 | 25 | 21 | 19 | 16 |
| 8 | 53 | 40 | 32 | 27 | 49 | 37 | 30 | 25 | 32 | 26 | 22 | 27 | 23 | 19 | 23 | 19 | 17 | 14 |
| 9 | 49 | 37 | 29 | 24 | 45 | 34 | 27 | 22 | 30 | 24 | 20 | 25 | 21 | 17 | 21 | 18 | 15 | 13 |
| 10 | 46 | 34 | 26 | 21 | 42 | 31 | 25 | 20 | 27 | 22 | 18 | 23 | 19 | 16 | 20 | 16 | 13 | 11 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 9912 | 9912 | 9912 |
| 5° | 9942 | 9687 | 9715 |
| 10° | 9882 | 9528 | 9521 |
| 15° | 9793 | 9345 | 9294 |
| 20° | 9660 | 9143 | 9072 |
| 25° | 9509 | 8916 | 8829 |
| 30° | 9346 | 8690 | 8579 |
| 35° | 9161 | 8459 | 8360 |
| 40° | 9014 | 8239 | 8132 |
| 45° | 8795 | 8036 | 7936 |
| 50° | 8610 | 7802 | 7728 |
| 55° | 8420 | 7582 | 7486 |
| 60° | 8121 | 7301 | 7265 |
| 65° | 7793 | 6999 | 6992 |
| 70° | 7397 | 6655 | 6676 |
| 75° | 6845 | 6278 | 6390 |
| 80° | 6233 | 5915 | 6107 |
| 85° | 5446 | 5591 | 5943 |



TEST NUMBER: P332702-935

CATALOG NUMBER: S124DIP-S1195D1035U935-4F0-1E-UDD-D4

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 116.3 | 1.6 |
| 10°-20° | 333.1 | 4.5 |
| 20°-30° | 503.7 | 6.8 |
| 30°-40° | 609.4 | 8.3 |
| 40°-50° | 644.3 | 8.7 |
| 50°-60° | 606.4 | 8.2 |
| 60°-70° | 503.1 | 6.8 |
| 70°-80° | 353.4 | 4.8 |
| 80°-90° | 202.2 | 2.7 |
| 90°-100° | 434.6 | 5.9 |
| 100°-110° | 745.5 | 10.1 |
| 110°-120° | 648.0 | 8.8 |
| 120°-130° | 528.8 | 7.2 |
| 130°-140° | 427.5 | 5.8 |
| 140°-150° | 318.6 | 4.3 |
| 150°-160° | 221.9 | 3.0 |
| 160°-170° | 130.5 | 1.8 |
| 170°-180° | 42.5 | 0.6 |
| 0°-30° | 953.1 | 12.9 |
| 0°-40° | 1562.5 | 21.2 |
| 0°-60° | 2813.1 | 38.2 |
| 0°-90° | 3871.7 | 52.5 |
| 90°-120° | 1828.1 | 24.8 |
| 90°-150° | 3103.0 | 42.1 |
| 90°-180° | 3498.0 | 47.5 |
| 0°-180° | 7369.6 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 1228 | 1228 | 1228 | 1228 | 1228 | |
| 5° | 1229 | 1225 | 1215 | 1226 | 1225 | 117 |
| 15° | 1178 | 1179 | 1176 | 1187 | 1186 | 332 |
| 25° | 1078 | 1086 | 1090 | 1105 | 1107 | 496 |
| 35° | 943 | 959 | 973 | 992 | 997 | 590 |
| 45° | 786 | 813 | 839 | 861 | 869 | 608 |
| 55° | 616 | 646 | 686 | 712 | 722 | 549 |
| 65° | 426 | 470 | 517 | 550 | 562 | 422 |
| 75° | 236 | 288 | 345 | 382 | 396 | 252 |
| 85° | 73 | 131 | 192 | 232 | 248 | 78 |
| 90° | 23 | 84 | 152 | 192 | 205 | 16 |
| 95° | 46 | 153 | 820 | 502 | 379 | 46 |
| 105° | 113 | 187 | 655 | 1338 | 1346 | 121 |
| 115° | 185 | 245 | 568 | 1060 | 1266 | 184 |
| 125° | 252 | 299 | 539 | 886 | 999 | 225 |
| 135° | 296 | 352 | 508 | 763 | 871 | 229 |
| 145° | 339 | 387 | 493 | 624 | 690 | 213 |
| 155° | 384 | 415 | 480 | 543 | 566 | 177 |
| 165° | 419 | 432 | 460 | 487 | 494 | 118 |
| 175° | 437 | 438 | 441 | 447 | 445 | 41 |
| 180° | 438 | 438 | 438 | 438 | 438 | |



TEST NUMBER: P332702-935

CATALOG NUMBER: S124DIP-S1195D1035U935-4F0-1E-UDD-D4

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1227.8 | 1227.8 | 1227.8 | 1227.8 | 1227.8 | 1227.8 | 1227.8 | 1227.8 | 1227.8 | 1227.8 | 1227.8 |
| 2.5° | 1232.2 | 1231.4 | 1230.7 | 1229.9 | 1229.2 | 1227.9 | 1225.9 | 1224.0 | 1222.0 | 1220.0 | 1221.8 |
| 5° | 1229.1 | 1228.2 | 1227.3 | 1226.4 | 1225.5 | 1223.9 | 1221.8 | 1219.6 | 1217.5 | 1215.4 | 1217.8 |
| 7.5° | 1218.7 | 1218.1 | 1217.5 | 1217.0 | 1216.5 | 1215.3 | 1213.6 | 1211.8 | 1210.0 | 1208.2 | 1211.0 |
| 10° | 1209.9 | 1209.5 | 1209.3 | 1208.9 | 1208.7 | 1207.7 | 1206.2 | 1204.7 | 1203.2 | 1201.6 | 1204.4 |
| 12.5° | 1197.7 | 1197.7 | 1197.7 | 1197.6 | 1197.6 | 1197.0 | 1195.9 | 1194.9 | 1193.9 | 1192.8 | 1195.3 |
| 15° | 1178.3 | 1178.5 | 1178.9 | 1179.1 | 1179.5 | 1179.1 | 1178.3 | 1177.3 | 1176.4 | 1175.5 | 1178.3 |
| 17.5° | 1151.6 | 1152.5 | 1153.4 | 1154.3 | 1155.2 | 1155.6 | 1155.5 | 1155.2 | 1155.0 | 1154.9 | 1157.7 |
| 20° | 1132.9 | 1133.8 | 1134.7 | 1135.7 | 1136.5 | 1137.1 | 1137.5 | 1137.8 | 1138.1 | 1138.4 | 1141.4 |
| 22.5° | 1112.0 | 1113.1 | 1114.3 | 1115.4 | 1116.6 | 1117.5 | 1118.0 | 1118.6 | 1119.1 | 1119.6 | 1122.7 |
| 25° | 1077.9 | 1079.7 | 1081.6 | 1083.4 | 1085.2 | 1086.6 | 1087.5 | 1088.4 | 1089.3 | 1090.3 | 1093.6 |
| 27.5° | 1039.9 | 1042.7 | 1045.3 | 1048.0 | 1050.7 | 1052.7 | 1054.1 | 1055.6 | 1057.0 | 1058.3 | 1061.4 |
| 30° | 1014.6 | 1017.1 | 1019.5 | 1022.0 | 1024.4 | 1026.7 | 1028.8 | 1031.0 | 1033.1 | 1035.3 | 1038.6 |
| 32.5° | 987.1 | 990.1 | 993.0 | 995.9 | 998.8 | 1001.5 | 1003.9 | 1006.3 | 1008.7 | 1011.1 | 1014.9 |
| 35° | 943.1 | 946.8 | 950.5 | 954.2 | 957.8 | 961.1 | 964.2 | 967.2 | 970.3 | 973.4 | 977.7 |
| 37.5° | 898.9 | 903.1 | 907.3 | 911.5 | 915.8 | 919.7 | 923.5 | 927.3 | 931.1 | 934.9 | 939.3 |
| 40° | 870.3 | 874.3 | 878.2 | 882.2 | 886.1 | 890.3 | 894.6 | 898.9 | 903.1 | 907.4 | 912.0 |
| 42.5° | 837.3 | 841.7 | 846.2 | 850.7 | 855.1 | 859.9 | 864.9 | 869.9 | 874.9 | 879.9 | 885.0 |
| 45° | 786.4 | 792.2 | 798.1 | 803.8 | 809.6 | 815.5 | 821.2 | 827.1 | 832.8 | 838.7 | 843.9 |
| 47.5° | 737.7 | 743.7 | 749.8 | 755.7 | 761.7 | 768.1 | 774.8 | 781.5 | 788.2 | 795.0 | 800.3 |
| 50° | 702.6 | 709.3 | 716.0 | 722.7 | 729.4 | 736.2 | 742.9 | 749.6 | 756.3 | 763.0 | 769.1 |
| 52.5° | 667.4 | 674.1 | 680.8 | 687.5 | 694.2 | 701.5 | 709.1 | 716.9 | 724.5 | 732.3 | 738.4 |
| 55° | 616.0 | 622.3 | 628.8 | 635.2 | 641.6 | 649.4 | 658.6 | 667.7 | 676.9 | 686.0 | 692.2 |
| 57.5° | 558.4 | 566.5 | 574.4 | 582.3 | 590.2 | 598.7 | 607.9 | 617.0 | 626.1 | 635.2 | 642.5 |
| 60° | 521.1 | 529.0 | 536.9 | 544.9 | 552.8 | 561.9 | 572.0 | 582.0 | 592.1 | 602.2 | 609.2 |
| 62.5° | 484.7 | 493.4 | 502.1 | 510.8 | 519.4 | 528.8 | 539.0 | 549.1 | 559.1 | 569.2 | 576.2 |
| 65° | 426.2 | 436.0 | 445.7 | 455.6 | 465.3 | 475.4 | 485.8 | 496.2 | 506.5 | 516.9 | 524.6 |
| 67.5° | 369.8 | 380.2 | 390.6 | 401.0 | 411.4 | 422.1 | 433.3 | 444.4 | 455.5 | 466.7 | 474.4 |
| 70° | 331.3 | 341.7 | 352.1 | 362.5 | 372.9 | 383.9 | 395.5 | 407.1 | 418.7 | 430.3 | 438.6 |
| 72.5° | 293.9 | 304.5 | 315.2 | 325.8 | 336.5 | 347.9 | 360.3 | 372.6 | 385.0 | 397.4 | 405.4 |
| 75° | 236.5 | 247.8 | 259.1 | 270.4 | 281.7 | 293.8 | 306.6 | 319.4 | 332.3 | 345.1 | 353.6 |
| 77.5° | 182.9 | 194.8 | 206.8 | 218.8 | 230.7 | 243.5 | 256.9 | 270.4 | 283.8 | 297.2 | 305.9 |
| 80° | 149.9 | 162.0 | 174.3 | 186.5 | 198.7 | 211.5 | 225.0 | 238.5 | 251.9 | 265.4 | 274.5 |
| 82.5° | 116.8 | 129.6 | 142.3 | 155.0 | 167.7 | 180.8 | 194.2 | 207.7 | 221.1 | 234.5 | 243.9 |
| 85° | 72.8 | 85.7 | 98.5 | 111.3 | 124.2 | 137.5 | 151.2 | 165.0 | 178.7 | 192.5 | 201.6 |
| 87.5° | 40.9 | 53.6 | 66.6 | 79.3 | 92.0 | 104.9 | 119.2 | 132.7 | 146.4 | 160.1 | 168.8 |
| 90° | 22.8 | 36.8 | 51.6 | 64.7 | 77.7 | 90.4 | 108.7 | 121.8 | 136.7 | 151.6 | 159.5 |
| 92.5° | 30.7 | 46.1 | 65.3 | 86.7 | 110.3 | 140.3 | 197.0 | 276.9 | 355.0 | 402.2 | 365.2 |
| 95° | 46.2 | 58.9 | 77.6 | 98.8 | 129.6 | 176.9 | 264.2 | 417.8 | 635.7 | 820.1 | 848.2 |
| 97.5° | 67.1 | 75.8 | 91.9 | 110.8 | 137.2 | 178.1 | 248.1 | 376.8 | 593.4 | 848.9 | 1024.0 |
| 100° | 80.4 | 88.4 | 102.4 | 120.6 | 144.9 | 182.4 | 245.0 | 354.0 | 541.2 | 795.6 | 1023.8 |
| 102.5° | 94.2 | 102.5 | 114.9 | 131.4 | 154.0 | 189.5 | 247.0 | 344.1 | 505.1 | 731.6 | 966.6 |
| 105° | 113.0 | 121.7 | 132.1 | 148.4 | 170.0 | 203.7 | 256.2 | 338.9 | 470.5 | 654.6 | 864.3 |
| 107.5° | 136.4 | 143.1 | 152.4 | 168.4 | 188.2 | 220.7 | 269.1 | 344.8 | 458.3 | 608.1 | 780.5 |
| 110° | 151.1 | 157.1 | 165.7 | 180.3 | 200.0 | 230.7 | 279.2 | 350.1 | 455.3 | 590.6 | 737.8 |



TEST NUMBER: P332702-935

CATALOG NUMBER: S124DIP-S1195D1035U935-4F0-1E-UDD-D4

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 165.1 | 170.7 | 179.4 | 192.9 | 212.1 | 242.3 | 289.0 | 355.9 | 454.4 | 578.9 | 710.8 |
| 115° | 185.3 | 190.6 | 199.4 | 210.8 | 229.8 | 259.3 | 303.5 | 364.8 | 454.5 | 567.5 | 682.5 |
| 117.5° | 207.8 | 211.8 | 218.8 | 229.9 | 246.8 | 276.3 | 318.1 | 374.6 | 455.4 | 558.4 | 665.0 |
| 120° | 221.8 | 224.4 | 231.4 | 241.7 | 257.3 | 286.2 | 327.7 | 381.3 | 456.3 | 552.8 | 654.4 |
| 122.5° | 235.5 | 237.4 | 243.6 | 252.5 | 268.7 | 296.4 | 337.4 | 387.7 | 457.4 | 546.6 | 643.3 |
| 125° | 252.2 | 255.3 | 260.2 | 269.3 | 285.3 | 313.1 | 351.6 | 398.8 | 460.6 | 538.7 | 627.1 |
| 127.5° | 267.9 | 270.4 | 276.2 | 286.7 | 303.5 | 330.5 | 366.3 | 408.4 | 461.6 | 528.7 | 606.3 |
| 130° | 275.8 | 278.9 | 285.4 | 298.0 | 314.1 | 341.3 | 375.4 | 413.8 | 462.5 | 522.5 | 593.2 |
| 132.5° | 284.6 | 287.1 | 295.8 | 307.6 | 325.0 | 350.4 | 383.6 | 420.3 | 463.9 | 517.4 | 581.7 |
| 135° | 295.8 | 299.3 | 307.9 | 322.5 | 340.5 | 363.9 | 394.5 | 427.6 | 464.9 | 508.3 | 563.1 |
| 137.5° | 308.4 | 311.3 | 320.6 | 334.2 | 352.6 | 374.3 | 401.7 | 431.7 | 464.0 | 501.9 | 547.4 |
| 140° | 317.4 | 319.6 | 328.7 | 343.1 | 360.8 | 381.4 | 407.5 | 435.3 | 464.9 | 497.8 | 538.8 |
| 142.5° | 325.9 | 328.4 | 337.1 | 350.9 | 368.2 | 388.1 | 413.0 | 438.2 | 465.9 | 495.7 | 531.9 |
| 145° | 339.1 | 341.5 | 349.7 | 361.4 | 377.5 | 396.2 | 418.6 | 441.8 | 466.7 | 493.4 | 522.7 |
| 147.5° | 354.5 | 355.0 | 362.3 | 374.4 | 387.6 | 404.5 | 425.5 | 445.7 | 467.6 | 490.3 | 514.8 |
| 150° | 364.1 | 364.6 | 371.3 | 381.3 | 393.8 | 410.0 | 429.0 | 447.8 | 467.6 | 488.2 | 509.7 |
| 152.5° | 372.0 | 372.0 | 378.8 | 388.4 | 399.8 | 414.8 | 431.7 | 449.2 | 466.2 | 484.7 | 504.2 |
| 155° | 384.2 | 385.0 | 390.2 | 398.8 | 408.3 | 421.2 | 435.8 | 450.4 | 464.2 | 479.7 | 495.9 |
| 157.5° | 396.4 | 396.4 | 401.2 | 407.9 | 416.2 | 426.4 | 438.7 | 450.4 | 461.9 | 474.3 | 487.5 |
| 160° | 404.0 | 404.0 | 407.4 | 413.5 | 420.3 | 429.8 | 440.1 | 450.4 | 459.9 | 470.2 | 481.4 |
| 162.5° | 410.9 | 410.2 | 412.9 | 418.3 | 424.5 | 431.9 | 441.4 | 450.4 | 457.8 | 466.1 | 475.9 |
| 165° | 418.6 | 418.6 | 420.3 | 424.6 | 429.0 | 434.0 | 441.8 | 448.7 | 453.8 | 459.9 | 466.7 |
| 167.5° | 426.4 | 425.5 | 426.4 | 429.6 | 432.0 | 435.9 | 441.6 | 446.6 | 449.7 | 453.7 | 458.5 |
| 170° | 429.8 | 429.0 | 429.8 | 432.4 | 434.0 | 436.6 | 440.9 | 445.2 | 446.9 | 449.5 | 453.0 |
| 172.5° | 433.2 | 432.4 | 432.5 | 434.4 | 435.4 | 437.3 | 440.2 | 443.8 | 444.2 | 445.4 | 448.2 |
| 175° | 436.6 | 435.8 | 435.8 | 436.6 | 437.5 | 437.5 | 439.2 | 441.8 | 440.9 | 440.9 | 442.6 |
| 177.5° | 438.2 | 437.5 | 436.8 | 437.5 | 437.5 | 437.5 | 438.2 | 439.5 | 438.2 | 438.2 | 438.9 |
| 180° | 437.5 | 437.5 | 437.5 | 437.5 | 437.5 | 437.5 | 437.5 | 437.5 | 437.5 | 437.5 | 437.5 |



TEST NUMBER: P332702-935

CATALOG NUMBER: S124DIP-S1195D1035U935-4F0-1E-UDD-D4

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1227.8 | 1227.8 | 1227.8 | 1227.8 | 1227.8 | 1227.8 | 1227.8 | 1227.8 |
| 2.5° | 1223.5 | 1225.2 | 1226.9 | 1227.6 | 1227.4 | 1227.1 | 1226.9 | 1226.7 |
| 5° | 1220.3 | 1222.7 | 1225.1 | 1226.2 | 1225.9 | 1225.6 | 1225.3 | 1225.0 |
| 7.5° | 1213.8 | 1216.5 | 1219.3 | 1220.5 | 1220.1 | 1219.9 | 1219.5 | 1219.3 |
| 10° | 1207.1 | 1209.9 | 1212.6 | 1213.8 | 1213.6 | 1213.2 | 1212.9 | 1212.6 |
| 12.5° | 1197.8 | 1200.3 | 1202.8 | 1204.1 | 1204.0 | 1203.9 | 1203.9 | 1203.9 |
| 15° | 1181.0 | 1183.8 | 1186.5 | 1187.7 | 1187.4 | 1187.1 | 1186.8 | 1186.5 |
| 17.5° | 1160.5 | 1163.3 | 1166.1 | 1167.4 | 1167.2 | 1166.9 | 1166.7 | 1166.4 |
| 20° | 1144.5 | 1147.5 | 1150.6 | 1152.1 | 1152.1 | 1152.1 | 1152.1 | 1152.1 |
| 22.5° | 1125.8 | 1128.9 | 1131.9 | 1133.7 | 1134.2 | 1134.6 | 1135.1 | 1135.7 |
| 25° | 1097.0 | 1100.4 | 1103.7 | 1105.5 | 1105.9 | 1106.1 | 1106.5 | 1106.7 |
| 27.5° | 1064.6 | 1067.7 | 1070.8 | 1072.5 | 1073.0 | 1073.3 | 1073.7 | 1074.0 |
| 30° | 1042.0 | 1045.3 | 1048.7 | 1050.7 | 1051.3 | 1051.9 | 1052.5 | 1053.2 |
| 32.5° | 1018.7 | 1022.6 | 1026.5 | 1028.7 | 1029.3 | 1029.9 | 1030.5 | 1031.1 |
| 35° | 982.0 | 986.2 | 990.5 | 993.1 | 994.0 | 995.0 | 995.8 | 996.8 |
| 37.5° | 943.6 | 947.9 | 952.3 | 954.9 | 955.9 | 956.8 | 957.9 | 958.8 |
| 40° | 916.5 | 921.2 | 925.7 | 928.7 | 929.9 | 931.1 | 932.3 | 933.5 |
| 42.5° | 890.0 | 895.1 | 900.2 | 903.2 | 904.2 | 905.2 | 906.1 | 907.1 |
| 45° | 849.0 | 854.3 | 859.5 | 862.8 | 864.4 | 865.8 | 867.4 | 868.9 |
| 47.5° | 805.7 | 811.1 | 816.5 | 820.0 | 821.9 | 823.7 | 825.5 | 827.4 |
| 50° | 775.2 | 781.4 | 787.5 | 791.4 | 793.3 | 795.1 | 796.9 | 798.7 |
| 52.5° | 744.5 | 750.6 | 756.6 | 760.7 | 762.5 | 764.3 | 766.1 | 768.0 |
| 55° | 698.3 | 704.4 | 710.5 | 714.5 | 716.3 | 718.2 | 720.0 | 721.8 |
| 57.5° | 649.7 | 657.0 | 664.3 | 668.7 | 670.5 | 672.2 | 673.9 | 675.6 |
| 60° | 616.2 | 623.3 | 630.3 | 635.0 | 637.5 | 639.9 | 642.4 | 644.8 |
| 62.5° | 583.2 | 590.3 | 597.3 | 602.0 | 604.5 | 606.9 | 609.3 | 611.8 |
| 65° | 532.2 | 539.8 | 547.5 | 552.5 | 555.0 | 557.4 | 559.9 | 562.3 |
| 67.5° | 482.2 | 489.9 | 497.7 | 502.7 | 505.1 | 507.5 | 509.9 | 512.3 |
| 70° | 446.9 | 455.0 | 463.3 | 468.6 | 470.6 | 472.8 | 474.9 | 477.1 |
| 72.5° | 413.4 | 421.4 | 429.4 | 434.5 | 437.0 | 439.3 | 441.7 | 444.1 |
| 75° | 362.2 | 370.7 | 379.3 | 385.0 | 387.7 | 390.5 | 393.2 | 396.0 |
| 77.5° | 314.6 | 323.3 | 331.9 | 337.8 | 340.7 | 343.6 | 346.6 | 349.5 |
| 80° | 283.7 | 292.8 | 302.0 | 307.8 | 310.2 | 312.7 | 315.1 | 317.6 |
| 82.5° | 253.4 | 262.8 | 272.2 | 278.3 | 280.9 | 283.6 | 286.3 | 289.0 |
| 85° | 210.8 | 220.0 | 229.1 | 235.2 | 238.3 | 241.3 | 244.4 | 247.5 |
| 87.5° | 177.8 | 186.8 | 195.9 | 201.6 | 204.5 | 207.4 | 209.9 | 212.6 |
| 90° | 169.3 | 179.0 | 188.7 | 194.4 | 197.7 | 201.0 | 202.6 | 205.0 |
| 92.5° | 315.6 | 282.4 | 265.0 | 253.4 | 245.7 | 243.5 | 243.1 | 245.5 |
| 95° | 773.0 | 648.1 | 541.1 | 463.2 | 423.9 | 400.0 | 387.3 | 378.8 |
| 97.5° | 1068.2 | 1026.7 | 950.5 | 866.2 | 807.0 | 757.9 | 734.8 | 719.5 |
| 100° | 1157.6 | 1183.0 | 1149.2 | 1090.7 | 1018.1 | 967.9 | 944.2 | 939.4 |
| 102.5° | 1146.8 | 1240.1 | 1260.2 | 1239.0 | 1195.5 | 1159.9 | 1135.1 | 1132.0 |
| 105° | 1068.7 | 1225.0 | 1317.8 | 1358.1 | 1362.2 | 1357.8 | 1348.2 | 1345.5 |
| 107.5° | 962.3 | 1128.2 | 1255.5 | 1337.0 | 1381.7 | 1403.5 | 1414.3 | 1418.8 |
| 110° | 897.9 | 1053.5 | 1185.2 | 1284.5 | 1348.0 | 1386.5 | 1404.5 | 1414.6 |



TEST NUMBER: P332702-935

CATALOG NUMBER: S124DIP-S1195D1035U935-4F0-1E-UDD-D4

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|-------|-------|--------|--------|--------|--------|--------|--------|
| 112.5° | 848.5 | 986.8 | 1111.4 | 1210.5 | 1282.2 | 1328.4 | 1352.5 | 1367.4 |
| 115° | 796.7 | 909.0 | 1016.4 | 1103.3 | 1173.4 | 1227.1 | 1256.7 | 1265.8 |
| 117.5° | 766.4 | 860.2 | 945.6 | 1020.0 | 1080.4 | 1126.1 | 1156.4 | 1164.2 |
| 120° | 750.7 | 836.8 | 911.6 | 977.0 | 1028.4 | 1068.7 | 1093.5 | 1105.4 |
| 122.5° | 737.0 | 820.3 | 889.0 | 946.6 | 990.2 | 1024.8 | 1045.9 | 1057.5 |
| 125° | 715.4 | 795.1 | 860.2 | 911.4 | 947.5 | 974.3 | 992.5 | 999.4 |
| 127.5° | 689.3 | 765.5 | 830.1 | 878.8 | 915.4 | 939.7 | 955.5 | 962.8 |
| 130° | 670.1 | 743.5 | 807.4 | 856.7 | 893.7 | 917.1 | 932.6 | 939.6 |
| 132.5° | 650.7 | 719.8 | 782.1 | 831.2 | 867.6 | 893.7 | 908.6 | 915.6 |
| 135° | 622.1 | 682.9 | 740.2 | 786.5 | 822.8 | 848.7 | 864.3 | 871.2 |
| 137.5° | 596.8 | 648.6 | 697.2 | 739.1 | 772.7 | 798.1 | 810.9 | 818.6 |
| 140° | 582.3 | 626.6 | 669.3 | 708.2 | 739.8 | 760.2 | 773.8 | 782.2 |
| 142.5° | 569.5 | 608.6 | 645.2 | 678.9 | 706.8 | 725.7 | 737.5 | 743.6 |
| 145° | 552.1 | 583.2 | 610.7 | 636.4 | 659.0 | 674.9 | 684.7 | 690.2 |
| 147.5° | 537.7 | 561.1 | 582.0 | 601.6 | 618.4 | 631.9 | 639.4 | 641.9 |
| 150° | 530.4 | 550.1 | 567.3 | 582.8 | 596.5 | 607.7 | 612.9 | 613.7 |
| 152.5° | 522.8 | 539.8 | 555.6 | 568.3 | 580.1 | 589.1 | 592.2 | 593.1 |
| 155° | 511.4 | 525.2 | 538.0 | 548.4 | 557.0 | 563.9 | 566.5 | 566.5 |
| 157.5° | 499.2 | 510.7 | 521.6 | 529.9 | 536.3 | 541.5 | 543.0 | 543.0 |
| 160° | 491.6 | 501.1 | 510.6 | 517.5 | 522.6 | 527.8 | 528.7 | 528.7 |
| 162.5° | 484.1 | 492.1 | 499.6 | 505.8 | 509.5 | 514.7 | 515.6 | 514.9 |
| 165° | 473.6 | 478.8 | 484.7 | 489.0 | 492.5 | 495.9 | 495.1 | 494.2 |
| 167.5° | 463.5 | 467.4 | 472.3 | 474.8 | 476.6 | 478.8 | 478.6 | 477.9 |
| 170° | 457.3 | 459.9 | 463.3 | 465.9 | 467.6 | 468.5 | 467.6 | 467.6 |
| 172.5° | 451.8 | 453.7 | 455.7 | 457.6 | 458.7 | 459.5 | 458.7 | 457.3 |
| 175° | 444.4 | 445.2 | 446.9 | 446.9 | 446.9 | 448.7 | 446.9 | 445.2 |
| 177.5° | 439.5 | 440.2 | 440.2 | 440.9 | 440.2 | 440.9 | 439.5 | 438.2 |
| 180° | 437.5 | 437.5 | 437.5 | 437.5 | 437.5 | 437.5 | 437.5 | 437.5 |

(END OF REPORT)