

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: P332673-935

Luminaire Tested: **SA4XXDIP-C1195D365U935-4F0-1E-UDD-D**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P332673-935
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-6,
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: SA4XXDIP-C1195D365U935-4F0-1E-UDD-D
Description: DEFINE 4 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 1195 LUMENS PER FOOT, DROP SATIN WHITE DIFFUSER
UPLIGHT 365 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

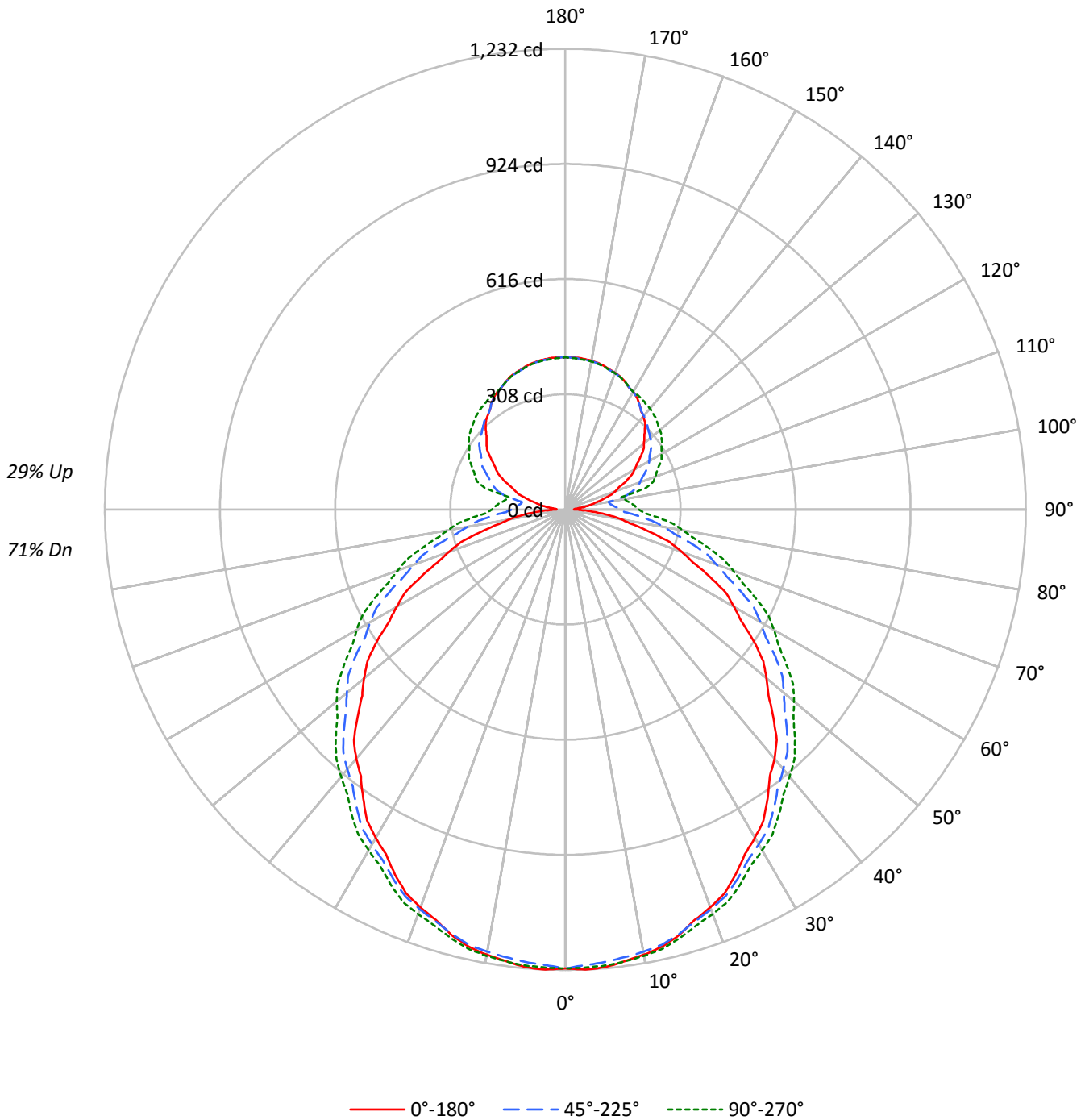
Lumens per Lamp: N/A
Luminaire Lumens: 5444.8 lumens
Efficiency: N/A
Efficacy: 109.3 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.08')
CIE Type: Semi-Direct

Input Watts (W): 49.8
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: P332673-935
CATALOG NUMBER: SA4XXDIP-C1195D365U935-4F0-1E-UDD-D

Luminous Intensity Polar Plot





TEST NUMBER: P332673-935

CATALOG NUMBER: SA4XXDIP-C1195D365U935-4F0-1E-UDD-D

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 | 112 | 112 | 112 | 112 | 106 | 106 | 106 | 106 | 95 | 95 | 95 | 85 | 85 | 85 | 75 | 75 | 75 | 75 | 75 | 75 | 71 | |
| 1 | 101 | 96 | 91 | 87 | 95 | 91 | 87 | 83 | 81 | 78 | 75 | 73 | 70 | 68 | 64 | 63 | 61 | 61 | 61 | 61 | 57 | |
| 2 | 91 | 83 | 76 | 70 | 86 | 79 | 72 | 67 | 70 | 65 | 61 | 63 | 59 | 56 | 56 | 53 | 50 | 50 | 50 | 50 | 46 | |
| 3 | 83 | 73 | 64 | 58 | 78 | 69 | 61 | 55 | 62 | 56 | 51 | 55 | 50 | 46 | 49 | 45 | 42 | 42 | 42 | 42 | 39 | |
| 4 | 76 | 64 | 55 | 49 | 71 | 61 | 53 | 47 | 55 | 48 | 43 | 49 | 44 | 39 | 44 | 39 | 36 | 36 | 36 | 36 | 33 | |
| 5 | 70 | 57 | 48 | 41 | 65 | 54 | 46 | 40 | 49 | 42 | 37 | 44 | 38 | 34 | 39 | 35 | 31 | 31 | 31 | 31 | 28 | |
| 6 | 64 | 51 | 42 | 36 | 60 | 49 | 40 | 35 | 44 | 37 | 32 | 39 | 34 | 30 | 35 | 31 | 27 | 27 | 27 | 27 | 24 | |
| 7 | 59 | 46 | 37 | 31 | 56 | 44 | 36 | 30 | 40 | 33 | 28 | 36 | 30 | 26 | 32 | 28 | 24 | 24 | 24 | 24 | 22 | |
| 8 | 55 | 42 | 34 | 28 | 52 | 40 | 32 | 27 | 36 | 30 | 25 | 33 | 27 | 23 | 30 | 25 | 21 | 21 | 21 | 21 | 19 | |
| 9 | 51 | 38 | 30 | 25 | 48 | 37 | 29 | 24 | 33 | 27 | 22 | 30 | 25 | 21 | 27 | 23 | 19 | 19 | 19 | 19 | 17 | |
| 10 | 48 | 35 | 27 | 22 | 45 | 34 | 26 | 22 | 31 | 24 | 20 | 28 | 23 | 19 | 25 | 21 | 17 | 17 | 17 | 17 | 16 | |

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: P332673-935

CATALOG NUMBER: SA4XXDIP-C1195D365U935-4F0-1E-UDD-D

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 116.3 | 2.1 |
| 10°-20° | 333.1 | 6.1 |
| 20°-30° | 503.7 | 9.3 |
| 30°-40° | 609.4 | 11.2 |
| 40°-50° | 644.3 | 11.8 |
| 50°-60° | 606.4 | 11.1 |
| 60°-70° | 503.1 | 9.2 |
| 70°-80° | 353.4 | 6.5 |
| 80°-90° | 200.9 | 3.7 |
| 90°-100° | 132.5 | 2.4 |
| 100°-110° | 176.5 | 3.2 |
| 110°-120° | 228.7 | 4.2 |
| 120°-130° | 248.7 | 4.6 |
| 130°-140° | 244.9 | 4.5 |
| 140°-150° | 218.5 | 4.0 |
| 150°-160° | 173.8 | 3.2 |
| 160°-170° | 112.1 | 2.1 |
| 170°-180° | 38.6 | 0.7 |
| 0°-30° | 953.1 | 17.5 |
| 0°-40° | 1562.5 | 28.7 |
| 0°-60° | 2813.1 | 51.7 |
| 0°-90° | 3870.5 | 71.1 |
| 90°-120° | 537.7 | 9.9 |
| 90°-150° | 1249.7 | 23.0 |
| 90°-180° | 1574.0 | 28.9 |
| 0°-180° | 5444.8 | 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 | 81 | 143 | 183 | 196 | 15 |
| 95° | 35 | 71 | 126 | 164 | 178 | 36 |
| 105° | 104 | 135 | 186 | 221 | 223 | 110 |
| 115° | 179 | 194 | 236 | 266 | 277 | 177 |
| 125° | 246 | 248 | 280 | 306 | 315 | 220 |
| 135° | 301 | 301 | 312 | 333 | 343 | 232 |
| 145° | 345 | 345 | 345 | 353 | 359 | 216 |
| 155° | 377 | 377 | 376 | 378 | 377 | 174 |
| 165° | 398 | 396 | 396 | 398 | 396 | 112 |
| 175° | 407 | 405 | 405 | 408 | 404 | 39 |
| 180° | 407 | 407 | 407 | 407 | 407 | |



TEST NUMBER: P332673-935

CATALOG NUMBER: SA4XXDIP-C1195D365U935-4F0-1E-UDD-D

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 | 53.5 | 66.1 | 78.7 | 91.4 | 104.4 | 117.9 | 131.4 | 144.8 | 158.3 | 167.3 |
| 90° | 22.9 | 35.9 | 48.8 | 61.8 | 74.7 | 88.1 | 101.8 | 115.5 | 129.2 | 142.8 | 152.1 |
| 92.5° | 24.7 | 35.7 | 46.8 | 57.9 | 68.9 | 81.3 | 95.0 | 108.6 | 122.3 | 136.0 | 145.0 |
| 95° | 34.6 | 42.4 | 50.2 | 57.9 | 65.8 | 75.9 | 88.5 | 101.1 | 113.7 | 126.3 | 134.9 |
| 97.5° | 51.7 | 61.9 | 72.0 | 82.1 | 92.2 | 99.7 | 104.5 | 109.4 | 114.3 | 119.2 | 127.2 |
| 100° | 65.0 | 74.2 | 83.3 | 92.5 | 101.7 | 107.5 | 110.1 | 112.7 | 115.3 | 117.9 | 125.0 |
| 102.5° | 81.1 | 88.9 | 96.8 | 104.7 | 112.5 | 121.7 | 132.2 | 142.6 | 153.1 | 163.5 | 159.1 |
| 105° | 103.9 | 110.5 | 117.0 | 123.6 | 130.0 | 139.1 | 150.8 | 162.4 | 174.0 | 185.7 | 193.9 |
| 107.5° | 127.5 | 132.7 | 137.9 | 143.1 | 148.4 | 156.5 | 167.6 | 178.8 | 190.0 | 201.1 | 209.0 |
| 110° | 142.4 | 147.0 | 151.4 | 155.9 | 160.4 | 168.2 | 179.3 | 190.4 | 201.5 | 212.6 | 219.7 |



TEST NUMBER: P332673-935

CATALOG NUMBER: SA4XXDIP-C1195D365U935-4F0-1E-UDD-D

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 157.0 | 161.1 | 165.2 | 169.4 | 173.6 | 180.8 | 191.2 | 201.6 | 212.0 | 222.4 | 229.1 |
| 115° | 179.3 | 182.2 | 185.2 | 188.1 | 191.1 | 197.4 | 207.1 | 216.8 | 226.5 | 236.3 | 243.1 |
| 117.5° | 200.6 | 202.5 | 204.4 | 206.4 | 208.3 | 213.9 | 223.1 | 232.4 | 241.6 | 250.9 | 257.2 |
| 120° | 214.1 | 215.2 | 216.5 | 217.7 | 218.9 | 223.9 | 232.6 | 241.4 | 250.2 | 259.0 | 265.3 |
| 122.5° | 227.7 | 228.1 | 228.4 | 228.8 | 229.1 | 233.5 | 241.9 | 250.5 | 258.9 | 267.3 | 273.5 |
| 125° | 245.9 | 245.8 | 245.8 | 245.8 | 245.7 | 249.5 | 257.0 | 264.5 | 272.0 | 279.5 | 285.5 |
| 127.5° | 264.2 | 263.9 | 263.6 | 263.4 | 263.1 | 266.1 | 272.3 | 278.4 | 284.6 | 290.8 | 296.3 |
| 130° | 274.9 | 274.7 | 274.5 | 274.2 | 274.0 | 276.4 | 281.5 | 286.6 | 291.7 | 296.8 | 302.4 |
| 132.5° | 285.9 | 285.7 | 285.5 | 285.3 | 285.2 | 287.1 | 291.4 | 295.5 | 299.6 | 303.8 | 309.2 |
| 135° | 300.9 | 300.9 | 300.8 | 300.7 | 300.7 | 301.9 | 304.3 | 306.7 | 309.1 | 311.5 | 316.5 |
| 137.5° | 315.5 | 315.2 | 315.0 | 314.7 | 314.4 | 315.0 | 316.2 | 317.6 | 318.9 | 320.3 | 324.9 |
| 140° | 325.0 | 324.9 | 324.7 | 324.5 | 324.3 | 324.4 | 324.9 | 325.3 | 325.8 | 326.2 | 330.4 |
| 142.5° | 332.4 | 332.6 | 332.8 | 332.9 | 333.1 | 333.2 | 333.1 | 332.9 | 332.9 | 332.8 | 336.4 |
| 145° | 345.3 | 345.1 | 345.0 | 344.9 | 344.8 | 344.7 | 344.7 | 344.7 | 344.7 | 344.7 | 346.6 |
| 147.5° | 355.6 | 355.7 | 355.8 | 355.9 | 355.9 | 355.9 | 355.9 | 355.8 | 355.7 | 355.7 | 355.9 |
| 150° | 363.2 | 363.2 | 363.1 | 363.1 | 363.0 | 363.0 | 362.9 | 362.8 | 362.7 | 362.7 | 362.7 |
| 152.5° | 368.4 | 368.6 | 368.7 | 368.9 | 369.0 | 369.0 | 368.9 | 368.8 | 368.7 | 368.6 | 368.7 |
| 155° | 377.0 | 377.1 | 377.1 | 377.2 | 377.3 | 377.2 | 377.0 | 376.8 | 376.6 | 376.4 | 376.7 |
| 157.5° | 384.5 | 384.4 | 384.4 | 384.4 | 384.4 | 384.2 | 384.0 | 383.7 | 383.5 | 383.3 | 383.7 |
| 160° | 388.9 | 388.7 | 388.5 | 388.3 | 388.1 | 388.0 | 387.9 | 387.8 | 387.7 | 387.6 | 388.1 |
| 162.5° | 392.8 | 392.5 | 392.3 | 392.0 | 391.8 | 391.6 | 391.5 | 391.4 | 391.4 | 391.3 | 391.8 |
| 165° | 397.7 | 397.4 | 397.0 | 396.7 | 396.3 | 396.1 | 396.1 | 396.1 | 396.1 | 396.1 | 396.7 |
| 167.5° | 401.6 | 401.2 | 400.9 | 400.5 | 400.2 | 400.0 | 399.9 | 399.9 | 399.8 | 399.8 | 400.5 |
| 170° | 403.8 | 403.4 | 402.9 | 402.6 | 402.2 | 402.0 | 402.1 | 402.2 | 402.2 | 402.3 | 402.8 |
| 172.5° | 405.3 | 404.8 | 404.4 | 404.1 | 403.6 | 403.5 | 403.6 | 403.6 | 403.6 | 403.7 | 404.2 |
| 175° | 406.8 | 406.4 | 406.0 | 405.6 | 405.2 | 405.0 | 405.1 | 405.2 | 405.3 | 405.3 | 406.0 |
| 177.5° | 407.6 | 407.2 | 406.8 | 406.4 | 406.0 | 405.9 | 406.0 | 406.1 | 406.2 | 406.3 | 406.8 |
| 180° | 406.8 | 406.8 | 406.8 | 406.8 | 406.8 | 406.8 | 406.8 | 406.8 | 406.8 | 406.8 | 406.8 |



TEST NUMBER: P332673-935

CATALOG NUMBER: SA4XXDIP-C1195D365U935-4F0-1E-UDD-D

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° | 176.2 | 185.2 | 194.2 | 199.9 | 202.7 | 205.3 | 208.1 | 210.8 |
| 90° | 161.4 | 170.6 | 179.9 | 185.8 | 188.4 | 191.0 | 193.6 | 196.1 |
| 92.5° | 154.0 | 163.0 | 172.0 | 177.8 | 180.3 | 182.7 | 185.2 | 187.7 |
| 95° | 143.6 | 152.3 | 160.9 | 166.7 | 169.4 | 172.3 | 175.1 | 178.0 |
| 97.5° | 135.2 | 143.3 | 151.3 | 156.7 | 159.4 | 162.0 | 164.8 | 167.5 |
| 100° | 132.1 | 139.1 | 146.3 | 150.9 | 153.2 | 155.3 | 157.6 | 159.7 |
| 102.5° | 154.7 | 150.3 | 145.9 | 144.9 | 147.3 | 149.7 | 152.1 | 154.5 |
| 105° | 202.2 | 210.4 | 218.7 | 222.8 | 222.8 | 222.8 | 222.8 | 222.8 |
| 107.5° | 216.8 | 224.5 | 232.4 | 237.5 | 240.0 | 242.5 | 244.9 | 247.4 |
| 110° | 226.9 | 234.0 | 241.2 | 246.1 | 248.7 | 251.4 | 254.1 | 256.7 |



TEST NUMBER: P332673-935

CATALOG NUMBER: SA4XXDIP-C1195D365U935-4F0-1E-UDD-D

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 235.9 | 242.6 | 249.4 | 254.2 | 256.8 | 259.5 | 262.3 | 264.9 |
| 115° | 249.9 | 256.8 | 263.6 | 268.2 | 270.3 | 272.4 | 274.6 | 276.7 |
| 117.5° | 263.6 | 269.8 | 276.2 | 280.5 | 283.0 | 285.4 | 287.8 | 290.2 |
| 120° | 271.5 | 277.8 | 284.0 | 288.3 | 290.6 | 292.9 | 295.2 | 297.5 |
| 122.5° | 279.7 | 285.9 | 292.1 | 296.3 | 298.3 | 300.4 | 302.5 | 304.5 |
| 125° | 291.5 | 297.5 | 303.5 | 307.5 | 309.4 | 311.3 | 313.1 | 315.0 |
| 127.5° | 301.8 | 307.2 | 312.7 | 316.4 | 318.4 | 320.5 | 322.4 | 324.5 |
| 130° | 307.9 | 313.5 | 319.1 | 322.8 | 324.6 | 326.4 | 328.2 | 330.1 |
| 132.5° | 314.4 | 319.8 | 325.1 | 328.6 | 330.5 | 332.3 | 334.0 | 335.8 |
| 135° | 321.5 | 326.6 | 331.6 | 335.1 | 337.1 | 339.0 | 341.0 | 342.9 |
| 137.5° | 329.5 | 334.1 | 338.7 | 341.7 | 343.2 | 344.7 | 346.2 | 347.7 |
| 140° | 334.6 | 338.7 | 342.9 | 345.8 | 347.4 | 349.0 | 350.6 | 352.1 |
| 142.5° | 340.0 | 343.6 | 347.3 | 349.7 | 351.0 | 352.3 | 353.6 | 355.0 |
| 145° | 348.5 | 350.4 | 352.3 | 354.0 | 355.3 | 356.7 | 358.1 | 359.4 |
| 147.5° | 356.3 | 356.5 | 356.9 | 357.5 | 358.6 | 359.6 | 360.7 | 361.7 |
| 150° | 362.7 | 362.7 | 362.7 | 362.7 | 362.8 | 362.9 | 362.9 | 363.0 |
| 152.5° | 368.8 | 368.9 | 369.0 | 369.0 | 368.9 | 368.9 | 368.9 | 368.9 |
| 155° | 376.9 | 377.2 | 377.5 | 377.5 | 377.3 | 377.1 | 376.9 | 376.7 |
| 157.5° | 384.0 | 384.4 | 384.7 | 384.7 | 384.4 | 384.0 | 383.7 | 383.3 |
| 160° | 388.5 | 388.9 | 389.3 | 389.3 | 388.9 | 388.5 | 388.1 | 387.6 |
| 162.5° | 392.1 | 392.5 | 393.0 | 392.9 | 392.4 | 392.0 | 391.5 | 391.1 |
| 165° | 397.3 | 397.8 | 398.4 | 398.3 | 397.7 | 397.1 | 396.5 | 395.9 |
| 167.5° | 401.1 | 401.7 | 402.2 | 402.2 | 401.5 | 400.8 | 400.1 | 399.5 |
| 170° | 403.4 | 403.9 | 404.4 | 404.3 | 403.7 | 403.0 | 402.3 | 401.7 |
| 172.5° | 404.8 | 405.4 | 405.9 | 405.8 | 405.1 | 404.3 | 403.6 | 402.9 |
| 175° | 406.6 | 407.2 | 407.8 | 407.7 | 406.8 | 406.0 | 405.2 | 404.4 |
| 177.5° | 407.3 | 407.7 | 408.1 | 407.9 | 407.3 | 406.7 | 406.0 | 405.4 |
| 180° | 406.8 | 406.8 | 406.8 | 406.8 | 406.8 | 406.8 | 406.8 | 406.8 |

(END OF REPORT)