

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: P332942-935

Luminaire Tested: **SA4XXRDIP-C795D810U935-4F0-1E-UDD-F4**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P332942-935
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-18,
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: SA4XXRDIP-C795D810U935-4F0-1E-UDD-F4
Description: DEFINE 4 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 795 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER, REGRESSED
HOUSING
UPLIGHT 810 LUMENS PER FOOT, BATWING OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

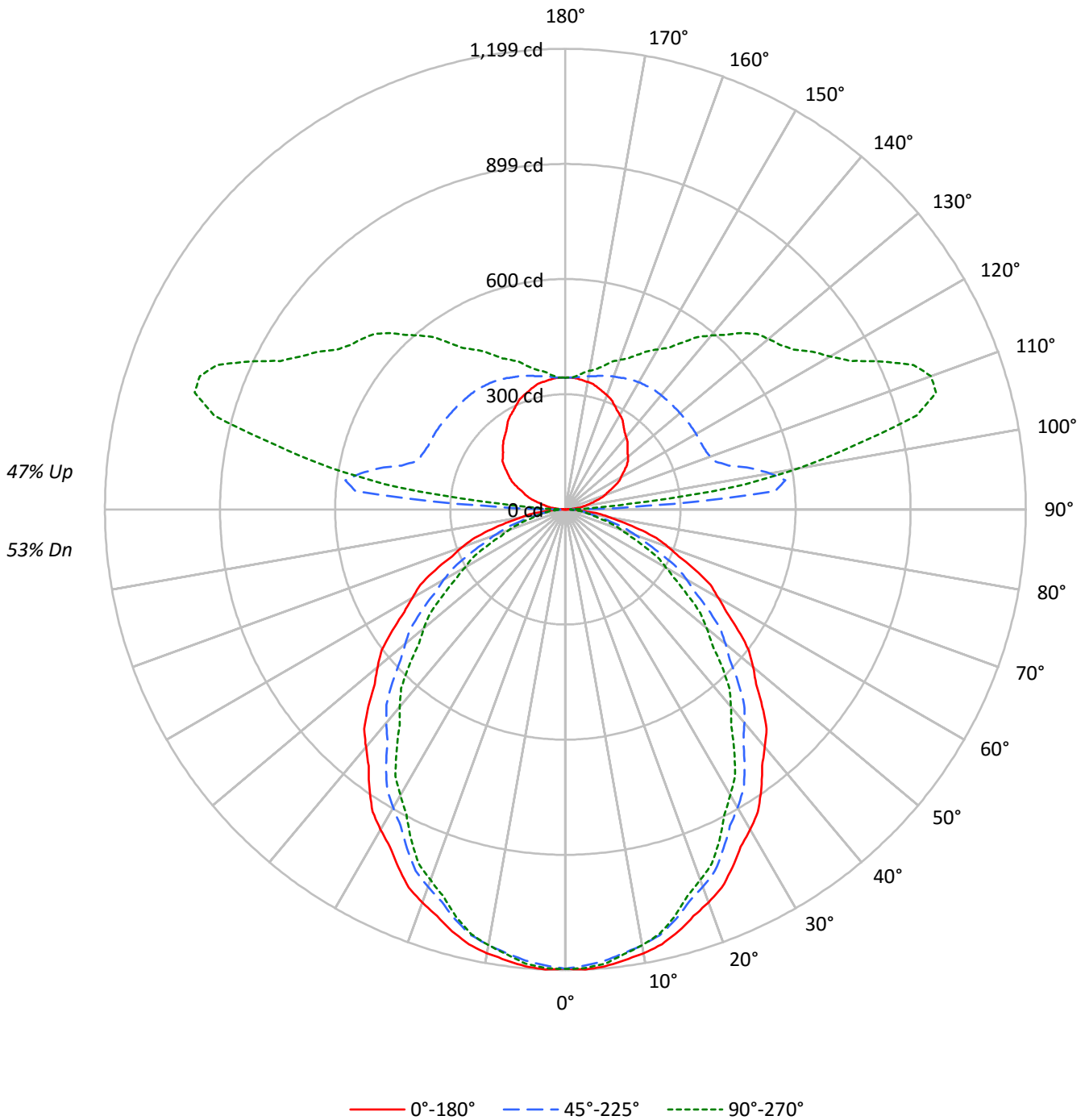
Lumens per Lamp: N/A
Luminaire Lumens: 5257.5 lumens
Efficiency: N/A
Efficacy: 114.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.09 / 1.24
Luminous Opening: Rectangular (W 0.33' x L: 4' x H: 0')
CIE Type: General Diffuse

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: P332942-935
CATALOG NUMBER: SA4XXRDIP-C795D810U935-4F0-1E-UDD-F4

Luminous Intensity Polar Plot





TEST NUMBER: P332942-935

CATALOG NUMBER: SA4XXRDIP-C795D810U935-4F0-1E-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 | 50 | 30 | 10 | 0 | |
| RCR | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 108 | 108 | 108 | 108 | 100 | 100 | 100 | 100 | 85 | 85 | 85 | 71 | 71 | 71 | 59 | 59 | 59 | 53 | | | | |
| 1 | 99 | 94 | 91 | 87 | 91 | 88 | 84 | 81 | 75 | 72 | 70 | 63 | 61 | 60 | 52 | 51 | 50 | 45 | | | | |
| 2 | 90 | 83 | 77 | 72 | 83 | 77 | 72 | 67 | 66 | 62 | 59 | 56 | 53 | 50 | 46 | 44 | 43 | 38 | | | | |
| 3 | 82 | 73 | 66 | 60 | 76 | 68 | 62 | 56 | 58 | 54 | 50 | 49 | 46 | 43 | 41 | 39 | 36 | 33 | | | | |
| 4 | 75 | 65 | 57 | 51 | 70 | 60 | 53 | 48 | 52 | 47 | 42 | 44 | 40 | 37 | 37 | 34 | 32 | 28 | | | | |
| 5 | 69 | 58 | 50 | 44 | 64 | 54 | 47 | 41 | 47 | 41 | 37 | 40 | 36 | 32 | 33 | 30 | 28 | 25 | | | | |
| 6 | 64 | 52 | 44 | 38 | 59 | 49 | 41 | 36 | 42 | 36 | 32 | 36 | 32 | 28 | 30 | 27 | 25 | 22 | | | | |
| 7 | 59 | 47 | 39 | 34 | 55 | 44 | 37 | 32 | 38 | 33 | 28 | 33 | 28 | 25 | 28 | 24 | 22 | 19 | | | | |
| 8 | 55 | 43 | 35 | 30 | 51 | 40 | 33 | 28 | 35 | 29 | 25 | 30 | 26 | 23 | 26 | 22 | 20 | 17 | | | | |
| 9 | 51 | 39 | 32 | 27 | 47 | 37 | 30 | 25 | 32 | 27 | 23 | 28 | 23 | 20 | 24 | 20 | 18 | 16 | | | | |
| 10 | 48 | 36 | 29 | 24 | 44 | 34 | 27 | 23 | 30 | 24 | 21 | 26 | 21 | 18 | 22 | 19 | 16 | 14 | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 9656 | 9656 | 9656 |
| 5° | 9678 | 9559 | 9618 |
| 10° | 9617 | 9444 | 9444 |
| 15° | 9507 | 9246 | 9177 |
| 20° | 9355 | 8985 | 8820 |
| 25° | 9161 | 8679 | 8459 |
| 30° | 8972 | 8358 | 8007 |
| 35° | 8763 | 8024 | 7554 |
| 40° | 8513 | 7644 | 7065 |
| 45° | 8281 | 7267 | 6566 |
| 50° | 8017 | 6832 | 6038 |
| 55° | 7734 | 6380 | 5465 |
| 60° | 7424 | 5885 | 4879 |
| 65° | 7138 | 5266 | 4304 |
| 70° | 6722 | 4584 | 3654 |
| 75° | 6198 | 3799 | 2969 |
| 80° | 5407 | 2896 | 2724 |
| 85° | 4576 | 2631 | 2455 |



TEST NUMBER: P332942-935

CATALOG NUMBER: SA4XXRDIP-C795D810U935-4F0-1E-UDD-F4

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 112.4 | 2.1 |
| 10°-20° | 313.3 | 6.0 |
| 20°-30° | 452.4 | 8.6 |
| 30°-40° | 512.8 | 9.8 |
| 40°-50° | 495.2 | 9.4 |
| 50°-60° | 411.8 | 7.8 |
| 60°-70° | 284.4 | 5.4 |
| 70°-80° | 144.1 | 2.7 |
| 80°-90° | 38.9 | 0.7 |
| 90°-100° | 247.5 | 4.7 |
| 100°-110° | 515.1 | 9.8 |
| 110°-120° | 461.4 | 8.8 |
| 120°-130° | 388.1 | 7.4 |
| 130°-140° | 323.6 | 6.2 |
| 140°-150° | 247.2 | 4.7 |
| 150°-160° | 173.8 | 3.3 |
| 160°-170° | 102.2 | 1.9 |
| 170°-180° | 33.3 | 0.6 |
| 0°-30° | 878.1 | 16.7 |
| 0°-40° | 1390.9 | 26.5 |
| 0°-60° | 2297.9 | 43.7 |
| 0°-90° | 2765.3 | 52.6 |
| 90°-120° | 1224.0 | 23.3 |
| 90°-150° | 2183.0 | 41.5 |
| 90°-180° | 2492.0 | 47.4 |
| 0°-180° | 5257.5 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 1196 | 1196 | 1196 | 1196 | 1196 | |
| 5° | 1194 | 1190 | 1180 | 1188 | 1187 | 113 |
| 15° | 1138 | 1128 | 1106 | 1104 | 1098 | 320 |
| 25° | 1028 | 1011 | 974 | 959 | 950 | 474 |
| 35° | 889 | 859 | 814 | 784 | 766 | 555 |
| 45° | 725 | 690 | 636 | 593 | 575 | 559 |
| 55° | 550 | 512 | 453 | 407 | 388 | 491 |
| 65° | 374 | 333 | 276 | 238 | 225 | 369 |
| 75° | 199 | 164 | 122 | 102 | 95 | 210 |
| 85° | 49 | 32 | 28 | 27 | 26 | 56 |
| 90° | 1 | 5 | 12 | 13 | 14 | 4 |
| 95° | 22 | 70 | 549 | 272 | 164 | 25 |
| 105° | 79 | 114 | 442 | 951 | 947 | 84 |
| 115° | 139 | 174 | 394 | 757 | 910 | 138 |
| 125° | 193 | 230 | 392 | 644 | 726 | 172 |
| 135° | 230 | 273 | 388 | 572 | 649 | 177 |
| 145° | 265 | 303 | 386 | 482 | 530 | 166 |
| 155° | 301 | 325 | 376 | 426 | 444 | 139 |
| 165° | 328 | 338 | 360 | 381 | 387 | 93 |
| 175° | 342 | 343 | 345 | 350 | 349 | 32 |
| 180° | 343 | 343 | 343 | 343 | 343 | |



TEST NUMBER: P332942-935

CATALOG NUMBER: SA4XXRDIP-C795D810U935-4F0-1E-UDD-F4

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1196.1 | 1196.1 | 1196.1 | 1196.1 | 1196.1 | 1196.1 | 1196.1 | 1196.1 | 1196.1 | 1196.1 | 1196.1 |
| 2.5° | 1199.0 | 1198.3 | 1197.7 | 1197.0 | 1196.4 | 1195.2 | 1193.3 | 1191.6 | 1189.8 | 1188.0 | 1189.8 |
| 5° | 1194.2 | 1193.4 | 1192.6 | 1191.8 | 1190.9 | 1189.4 | 1186.9 | 1184.5 | 1182.0 | 1179.6 | 1181.6 |
| 7.5° | 1183.4 | 1182.6 | 1181.7 | 1180.9 | 1180.0 | 1178.0 | 1174.8 | 1171.6 | 1168.5 | 1165.3 | 1166.6 |
| 10° | 1173.2 | 1172.2 | 1171.1 | 1170.1 | 1169.1 | 1166.7 | 1163.1 | 1159.4 | 1155.8 | 1152.1 | 1152.9 |
| 12.5° | 1159.9 | 1158.8 | 1157.6 | 1156.4 | 1155.3 | 1152.5 | 1148.2 | 1143.8 | 1139.5 | 1135.2 | 1135.7 |
| 15° | 1137.5 | 1135.7 | 1133.8 | 1132.0 | 1130.1 | 1126.7 | 1121.5 | 1116.5 | 1111.4 | 1106.3 | 1105.9 |
| 17.5° | 1110.2 | 1107.5 | 1104.8 | 1102.3 | 1099.6 | 1095.2 | 1089.1 | 1083.0 | 1076.9 | 1070.7 | 1069.6 |
| 20° | 1088.9 | 1086.2 | 1083.7 | 1081.0 | 1078.3 | 1073.6 | 1066.6 | 1059.7 | 1052.7 | 1045.9 | 1044.2 |
| 22.5° | 1065.5 | 1062.5 | 1059.5 | 1056.5 | 1053.6 | 1048.4 | 1040.9 | 1033.5 | 1026.1 | 1018.7 | 1016.3 |
| 25° | 1028.5 | 1024.8 | 1021.1 | 1017.4 | 1013.8 | 1007.8 | 999.4 | 991.1 | 982.7 | 974.4 | 970.9 |
| 27.5° | 989.6 | 985.1 | 980.4 | 975.9 | 971.2 | 964.5 | 955.5 | 946.7 | 937.7 | 928.8 | 924.5 |
| 30° | 962.5 | 957.4 | 952.4 | 947.3 | 942.2 | 934.9 | 925.3 | 915.8 | 906.1 | 896.6 | 891.5 |
| 32.5° | 933.9 | 928.2 | 922.5 | 916.7 | 911.0 | 903.2 | 893.3 | 883.4 | 873.5 | 863.6 | 857.7 |
| 35° | 889.2 | 882.8 | 876.2 | 869.7 | 863.2 | 854.9 | 844.7 | 834.5 | 824.3 | 814.2 | 807.3 |
| 37.5° | 841.5 | 834.7 | 828.0 | 821.3 | 814.6 | 805.6 | 794.4 | 783.1 | 771.8 | 760.5 | 752.8 |
| 40° | 807.8 | 801.1 | 794.4 | 787.6 | 780.9 | 771.7 | 760.1 | 748.6 | 736.9 | 725.3 | 716.8 |
| 42.5° | 775.5 | 768.4 | 761.5 | 754.4 | 747.3 | 737.8 | 725.7 | 713.6 | 701.5 | 689.4 | 680.7 |
| 45° | 725.3 | 717.8 | 710.2 | 702.7 | 695.2 | 685.4 | 673.1 | 660.9 | 648.7 | 636.5 | 626.5 |
| 47.5° | 673.5 | 665.7 | 658.0 | 650.1 | 642.4 | 632.1 | 619.5 | 606.7 | 594.1 | 581.3 | 571.0 |
| 50° | 638.3 | 630.4 | 622.4 | 614.5 | 606.6 | 596.1 | 583.1 | 570.1 | 557.0 | 544.0 | 533.8 |
| 52.5° | 602.4 | 594.7 | 586.9 | 579.1 | 571.4 | 560.8 | 547.4 | 534.1 | 520.7 | 507.4 | 497.1 |
| 55° | 549.5 | 541.3 | 533.2 | 525.0 | 516.9 | 506.3 | 493.0 | 479.7 | 466.6 | 453.3 | 442.7 |
| 57.5° | 497.1 | 488.6 | 480.2 | 471.7 | 463.2 | 452.5 | 439.5 | 426.5 | 413.5 | 400.4 | 389.7 |
| 60° | 459.8 | 451.6 | 443.5 | 435.3 | 427.1 | 416.6 | 403.6 | 390.5 | 377.5 | 364.5 | 353.9 |
| 62.5° | 426.0 | 417.6 | 409.1 | 400.6 | 392.2 | 381.3 | 367.9 | 354.6 | 341.2 | 327.9 | 318.1 |
| 65° | 373.7 | 364.9 | 356.1 | 347.4 | 338.6 | 327.8 | 314.7 | 301.7 | 288.7 | 275.7 | 266.9 |
| 67.5° | 319.3 | 310.9 | 302.5 | 294.1 | 285.7 | 275.5 | 263.4 | 251.3 | 239.2 | 227.1 | 219.6 |
| 70° | 284.8 | 276.3 | 267.7 | 259.2 | 250.6 | 240.6 | 228.9 | 217.3 | 205.8 | 194.2 | 187.4 |
| 72.5° | 248.2 | 240.5 | 232.7 | 225.0 | 217.2 | 207.9 | 197.0 | 186.0 | 175.0 | 164.1 | 158.3 |
| 75° | 198.7 | 191.2 | 183.7 | 176.2 | 168.6 | 160.1 | 150.5 | 140.9 | 131.4 | 121.8 | 117.1 |
| 77.5° | 148.5 | 142.2 | 135.8 | 129.4 | 123.0 | 115.9 | 108.2 | 100.5 | 92.7 | 85.0 | 82.2 |
| 80° | 116.3 | 110.4 | 104.5 | 98.6 | 92.7 | 86.7 | 80.6 | 74.5 | 68.4 | 62.3 | 61.6 |
| 82.5° | 88.5 | 83.1 | 77.7 | 72.2 | 66.8 | 62.3 | 58.9 | 55.4 | 51.8 | 48.4 | 47.9 |
| 85° | 49.4 | 45.4 | 41.3 | 37.3 | 33.1 | 30.8 | 30.2 | 29.6 | 29.0 | 28.4 | 28.0 |
| 87.5° | 17.0 | 15.9 | 15.1 | 13.9 | 12.7 | 12.0 | 12.7 | 12.5 | 12.6 | 12.7 | 12.4 |
| 90° | 0.7 | 2.0 | 4.0 | 4.7 | 5.4 | 5.4 | 9.4 | 9.4 | 10.8 | 12.1 | 11.5 |
| 92.5° | 7.7 | 11.2 | 17.5 | 25.7 | 35.6 | 49.5 | 83.8 | 136.0 | 186.9 | 213.5 | 177.9 |
| 95° | 22.2 | 24.2 | 31.0 | 39.7 | 55.9 | 84.1 | 142.8 | 253.1 | 414.1 | 548.7 | 564.2 |
| 97.5° | 39.9 | 39.9 | 45.6 | 53.7 | 67.6 | 91.3 | 136.4 | 227.6 | 387.5 | 577.9 | 708.8 |
| 100° | 51.1 | 51.1 | 55.9 | 64.0 | 76.7 | 98.3 | 138.0 | 214.1 | 351.5 | 541.3 | 713.6 |
| 102.5° | 61.9 | 63.0 | 67.2 | 74.7 | 87.0 | 107.5 | 143.4 | 210.3 | 327.2 | 495.5 | 673.2 |
| 105° | 78.8 | 80.8 | 84.1 | 92.2 | 104.4 | 123.9 | 156.2 | 212.1 | 306.3 | 441.6 | 599.9 |
| 107.5° | 97.4 | 98.7 | 102.0 | 110.6 | 122.3 | 141.5 | 171.2 | 222.1 | 302.6 | 411.5 | 540.6 |
| 110° | 109.8 | 111.1 | 114.4 | 122.5 | 134.7 | 152.8 | 182.4 | 229.5 | 303.6 | 401.2 | 511.0 |



TEST NUMBER: P332942-935

CATALOG NUMBER: SA4XXRDIP-C795D810U935-4F0-1E-UDD-F4

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 121.6 | 123.0 | 126.8 | 134.4 | 146.5 | 164.7 | 193.2 | 237.6 | 306.9 | 396.4 | 494.3 |
| 115° | 138.7 | 140.7 | 145.4 | 152.1 | 165.0 | 183.1 | 210.1 | 250.5 | 313.1 | 393.8 | 478.6 |
| 117.5° | 156.4 | 158.3 | 162.6 | 170.0 | 181.9 | 200.8 | 226.4 | 263.5 | 319.7 | 393.1 | 471.7 |
| 120° | 168.3 | 169.6 | 174.4 | 181.8 | 193.2 | 212.1 | 237.6 | 272.7 | 324.5 | 393.1 | 467.9 |
| 122.5° | 179.1 | 180.5 | 185.1 | 192.0 | 204.5 | 222.8 | 248.4 | 281.3 | 329.3 | 392.6 | 463.6 |
| 125° | 193.2 | 195.9 | 199.9 | 207.3 | 220.2 | 239.0 | 263.2 | 294.2 | 336.7 | 391.8 | 456.4 |
| 127.5° | 205.8 | 207.9 | 212.8 | 221.2 | 234.5 | 253.6 | 277.0 | 305.4 | 342.4 | 390.4 | 446.9 |
| 130° | 212.8 | 215.4 | 220.8 | 230.9 | 243.7 | 263.2 | 286.1 | 312.4 | 346.7 | 389.8 | 441.0 |
| 132.5° | 219.7 | 221.9 | 228.9 | 238.5 | 252.4 | 270.8 | 293.7 | 319.3 | 350.5 | 389.3 | 435.6 |
| 135° | 229.5 | 232.3 | 239.0 | 250.5 | 264.6 | 282.1 | 304.3 | 328.6 | 356.1 | 388.5 | 427.5 |
| 137.5° | 239.4 | 241.9 | 249.3 | 260.3 | 274.9 | 291.6 | 312.4 | 335.0 | 359.5 | 388.3 | 420.5 |
| 140° | 246.4 | 248.4 | 255.8 | 267.3 | 281.4 | 297.6 | 317.8 | 339.3 | 362.2 | 387.8 | 416.7 |
| 142.5° | 253.9 | 256.0 | 262.9 | 273.7 | 287.3 | 303.0 | 322.6 | 342.5 | 364.4 | 387.8 | 413.5 |
| 145° | 264.6 | 266.6 | 273.4 | 282.8 | 295.6 | 310.4 | 327.9 | 346.0 | 365.6 | 386.4 | 407.9 |
| 147.5° | 276.6 | 277.2 | 283.2 | 292.8 | 303.5 | 316.8 | 333.3 | 349.1 | 366.3 | 384.0 | 403.0 |
| 150° | 284.1 | 284.8 | 290.2 | 298.3 | 308.3 | 321.2 | 336.0 | 350.8 | 366.3 | 382.4 | 399.2 |
| 152.5° | 291.1 | 291.3 | 296.6 | 304.2 | 313.2 | 324.9 | 338.1 | 351.8 | 365.2 | 379.7 | 394.9 |
| 155° | 300.9 | 301.6 | 305.7 | 312.4 | 319.8 | 329.8 | 341.3 | 352.8 | 363.5 | 375.7 | 388.5 |
| 157.5° | 310.5 | 310.5 | 314.3 | 319.5 | 326.0 | 333.9 | 343.6 | 352.8 | 361.8 | 371.5 | 381.9 |
| 160° | 316.4 | 316.4 | 319.1 | 323.8 | 329.2 | 336.7 | 344.7 | 352.8 | 360.2 | 368.2 | 377.0 |
| 162.5° | 321.8 | 321.2 | 323.4 | 327.6 | 332.4 | 338.2 | 345.8 | 352.8 | 358.6 | 365.1 | 372.7 |
| 165° | 327.9 | 327.9 | 329.2 | 332.6 | 336.0 | 340.0 | 346.0 | 351.5 | 355.5 | 360.2 | 365.6 |
| 167.5° | 333.9 | 333.3 | 333.9 | 336.5 | 338.4 | 341.5 | 345.9 | 349.8 | 352.2 | 355.3 | 359.1 |
| 170° | 336.7 | 336.0 | 336.7 | 338.6 | 340.0 | 342.0 | 345.3 | 348.7 | 350.1 | 352.1 | 354.8 |
| 172.5° | 339.3 | 338.6 | 338.8 | 340.3 | 341.0 | 342.5 | 344.8 | 347.7 | 347.9 | 348.9 | 351.0 |
| 175° | 342.0 | 341.3 | 341.3 | 342.0 | 342.7 | 342.7 | 344.1 | 346.0 | 345.3 | 345.3 | 346.7 |
| 177.5° | 343.2 | 342.7 | 342.2 | 342.7 | 342.7 | 342.7 | 343.2 | 344.3 | 343.2 | 343.2 | 343.7 |
| 180° | 342.7 | 342.7 | 342.7 | 342.7 | 342.7 | 342.7 | 342.7 | 342.7 | 342.7 | 342.7 | 342.7 |



TEST NUMBER: P332942-935

CATALOG NUMBER: SA4XXRDIP-C795D810U935-4F0-1E-UDD-F4

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1196.1 | 1196.1 | 1196.1 | 1196.1 | 1196.1 | 1196.1 | 1196.1 | 1196.1 |
| 2.5° | 1191.6 | 1193.3 | 1195.2 | 1196.0 | 1195.8 | 1195.7 | 1195.5 | 1195.3 |
| 5° | 1183.6 | 1185.7 | 1187.7 | 1188.5 | 1188.1 | 1187.7 | 1187.3 | 1186.9 |
| 7.5° | 1167.9 | 1169.2 | 1170.5 | 1170.8 | 1170.2 | 1169.5 | 1168.9 | 1168.2 |
| 10° | 1153.7 | 1154.5 | 1155.4 | 1155.4 | 1154.5 | 1153.7 | 1152.9 | 1152.1 |
| 12.5° | 1136.3 | 1136.7 | 1137.2 | 1136.9 | 1135.7 | 1134.6 | 1133.4 | 1132.3 |
| 15° | 1105.5 | 1105.1 | 1104.7 | 1103.8 | 1102.3 | 1100.9 | 1099.5 | 1098.0 |
| 17.5° | 1068.5 | 1067.4 | 1066.2 | 1064.5 | 1062.4 | 1060.2 | 1058.1 | 1055.9 |
| 20° | 1042.6 | 1040.9 | 1039.3 | 1037.2 | 1034.6 | 1031.9 | 1029.2 | 1026.7 |
| 22.5° | 1013.9 | 1011.4 | 1009.0 | 1006.7 | 1004.5 | 1002.4 | 1000.2 | 998.1 |
| 25° | 967.5 | 964.1 | 960.6 | 957.9 | 955.8 | 953.8 | 951.7 | 949.7 |
| 27.5° | 920.2 | 916.0 | 911.7 | 908.1 | 905.2 | 902.2 | 899.3 | 896.4 |
| 30° | 886.4 | 881.3 | 876.2 | 872.0 | 868.8 | 865.6 | 862.3 | 859.0 |
| 32.5° | 851.8 | 845.9 | 840.0 | 835.5 | 832.4 | 829.3 | 826.2 | 823.1 |
| 35° | 800.3 | 793.4 | 786.5 | 781.2 | 777.6 | 773.9 | 770.2 | 766.5 |
| 37.5° | 745.0 | 737.3 | 729.5 | 723.8 | 720.2 | 716.5 | 712.9 | 709.2 |
| 40° | 708.3 | 699.6 | 691.1 | 685.0 | 681.4 | 677.7 | 674.1 | 670.4 |
| 42.5° | 672.0 | 663.3 | 654.6 | 648.3 | 644.5 | 640.7 | 636.9 | 633.0 |
| 45° | 616.6 | 606.6 | 596.6 | 589.8 | 586.1 | 582.5 | 578.8 | 575.1 |
| 47.5° | 560.7 | 550.4 | 540.0 | 532.8 | 528.8 | 524.8 | 520.7 | 516.7 |
| 50° | 523.7 | 513.5 | 503.3 | 496.3 | 492.4 | 488.5 | 484.7 | 480.8 |
| 52.5° | 486.7 | 476.4 | 466.0 | 458.8 | 454.8 | 450.7 | 446.8 | 442.7 |
| 55° | 432.1 | 421.5 | 411.0 | 403.8 | 399.9 | 396.1 | 392.2 | 388.3 |
| 57.5° | 378.9 | 368.2 | 357.4 | 350.6 | 347.7 | 344.7 | 341.8 | 338.9 |
| 60° | 343.4 | 332.8 | 322.2 | 315.2 | 312.0 | 308.8 | 305.5 | 302.2 |
| 62.5° | 308.3 | 298.6 | 288.8 | 282.6 | 280.0 | 277.4 | 274.7 | 272.2 |
| 65° | 258.1 | 249.4 | 240.6 | 235.1 | 232.6 | 230.1 | 227.7 | 225.3 |
| 67.5° | 212.1 | 204.6 | 197.0 | 191.9 | 189.2 | 186.5 | 183.8 | 181.2 |
| 70° | 180.7 | 174.0 | 167.3 | 162.9 | 160.9 | 158.9 | 156.8 | 154.8 |
| 72.5° | 152.7 | 146.9 | 141.1 | 137.3 | 135.5 | 133.6 | 131.7 | 129.8 |
| 75° | 112.4 | 107.8 | 103.1 | 100.1 | 98.9 | 97.7 | 96.4 | 95.2 |
| 77.5° | 79.6 | 76.8 | 74.0 | 72.5 | 72.2 | 71.8 | 71.5 | 71.0 |
| 80° | 61.0 | 60.4 | 59.8 | 59.4 | 59.2 | 59.0 | 58.8 | 58.6 |
| 82.5° | 47.4 | 47.0 | 46.6 | 46.2 | 46.1 | 45.8 | 45.6 | 45.5 |
| 85° | 27.6 | 27.2 | 26.8 | 26.5 | 26.5 | 26.5 | 26.5 | 26.5 |
| 87.5° | 12.3 | 12.3 | 12.3 | 12.3 | 12.6 | 12.9 | 12.9 | 13.1 |
| 90° | 12.1 | 12.8 | 13.4 | 13.4 | 14.1 | 14.8 | 14.1 | 14.1 |
| 92.5° | 132.2 | 99.5 | 79.2 | 65.7 | 57.8 | 54.2 | 51.8 | 51.8 |
| 95° | 498.9 | 394.5 | 304.3 | 239.0 | 206.0 | 185.1 | 173.1 | 164.3 |
| 97.5° | 737.0 | 698.3 | 632.4 | 562.1 | 513.8 | 473.3 | 453.1 | 439.1 |
| 100° | 811.9 | 825.4 | 792.4 | 742.6 | 684.0 | 642.9 | 622.8 | 617.3 |
| 102.5° | 808.1 | 874.9 | 884.5 | 863.8 | 827.9 | 798.1 | 776.8 | 772.5 |
| 105° | 754.1 | 870.5 | 937.1 | 964.8 | 966.1 | 960.7 | 951.3 | 947.3 |
| 107.5° | 677.2 | 801.2 | 895.0 | 955.0 | 988.3 | 1003.7 | 1010.4 | 1012.1 |
| 110° | 630.9 | 747.3 | 844.9 | 918.9 | 966.7 | 995.1 | 1007.2 | 1013.2 |



TEST NUMBER: P332942-935

CATALOG NUMBER: SA4XXRDIP-C795D810U935-4F0-1E-UDD-F4

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 596.9 | 699.9 | 792.1 | 866.2 | 920.4 | 954.7 | 971.6 | 981.5 |
| 115° | 562.8 | 645.7 | 724.4 | 789.0 | 842.2 | 882.6 | 904.1 | 909.6 |
| 117.5° | 546.1 | 614.7 | 676.6 | 731.4 | 776.8 | 810.7 | 832.5 | 836.7 |
| 120° | 538.6 | 601.2 | 655.0 | 702.8 | 741.2 | 770.9 | 788.3 | 795.7 |
| 122.5° | 532.1 | 592.5 | 641.6 | 683.5 | 715.9 | 741.2 | 756.0 | 763.4 |
| 125° | 521.1 | 579.0 | 625.4 | 662.5 | 689.4 | 708.9 | 721.7 | 725.7 |
| 127.5° | 507.6 | 562.9 | 609.2 | 644.5 | 671.5 | 688.9 | 699.6 | 703.7 |
| 130° | 496.9 | 550.0 | 595.8 | 631.5 | 659.1 | 676.0 | 686.7 | 690.8 |
| 132.5° | 485.5 | 535.5 | 580.2 | 615.9 | 642.9 | 661.9 | 672.2 | 676.2 |
| 135° | 469.9 | 513.7 | 554.7 | 588.4 | 615.4 | 634.2 | 645.0 | 649.0 |
| 137.5° | 455.8 | 492.8 | 527.4 | 557.8 | 583.0 | 601.6 | 610.4 | 615.4 |
| 140° | 447.7 | 479.3 | 509.6 | 538.0 | 561.5 | 576.3 | 585.7 | 591.1 |
| 142.5° | 440.1 | 468.0 | 494.0 | 518.5 | 539.4 | 553.1 | 561.5 | 565.2 |
| 145° | 429.6 | 452.5 | 472.6 | 491.5 | 508.3 | 519.7 | 526.5 | 529.9 |
| 147.5° | 420.8 | 438.9 | 455.1 | 469.9 | 482.3 | 492.1 | 497.2 | 498.4 |
| 150° | 415.3 | 430.8 | 444.4 | 456.4 | 467.3 | 476.0 | 480.0 | 480.7 |
| 152.5° | 409.5 | 422.8 | 435.1 | 445.1 | 454.3 | 461.4 | 463.8 | 464.5 |
| 155° | 400.5 | 411.4 | 421.5 | 429.6 | 436.3 | 441.6 | 443.7 | 443.7 |
| 157.5° | 391.0 | 400.0 | 408.5 | 415.0 | 420.1 | 424.1 | 425.3 | 425.3 |
| 160° | 385.1 | 392.5 | 399.9 | 405.3 | 409.3 | 413.4 | 414.1 | 414.1 |
| 162.5° | 379.2 | 385.5 | 391.3 | 396.1 | 399.1 | 403.1 | 403.8 | 403.3 |
| 165° | 370.9 | 375.0 | 379.7 | 383.1 | 385.7 | 388.5 | 387.8 | 387.1 |
| 167.5° | 363.0 | 366.1 | 369.9 | 371.9 | 373.2 | 375.0 | 374.9 | 374.3 |
| 170° | 358.2 | 360.2 | 362.9 | 364.9 | 366.3 | 366.9 | 366.3 | 366.3 |
| 172.5° | 353.9 | 355.3 | 357.0 | 358.4 | 359.2 | 359.9 | 359.2 | 358.2 |
| 175° | 348.1 | 348.7 | 350.1 | 350.1 | 350.1 | 351.5 | 350.1 | 348.7 |
| 177.5° | 344.3 | 344.8 | 344.8 | 345.3 | 344.8 | 345.3 | 344.3 | 343.2 |
| 180° | 342.7 | 342.7 | 342.7 | 342.7 | 342.7 | 342.7 | 342.7 | 342.7 |

(END OF REPORT)