

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: P332603-840

Luminaire Tested: **SA4XXDIP-C795D810U840-4F0-1E-UDD-D4**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P332603-840
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: SA4XXDIP-C795D810U840-4F0-1E-UDD-D4
Description: DEFINE 4 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 795 LUMENS PER FOOT, DROP SATIN WHITE DIFFUSER
UPLIGHT 810 LUMENS PER FOOT, BATWING OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

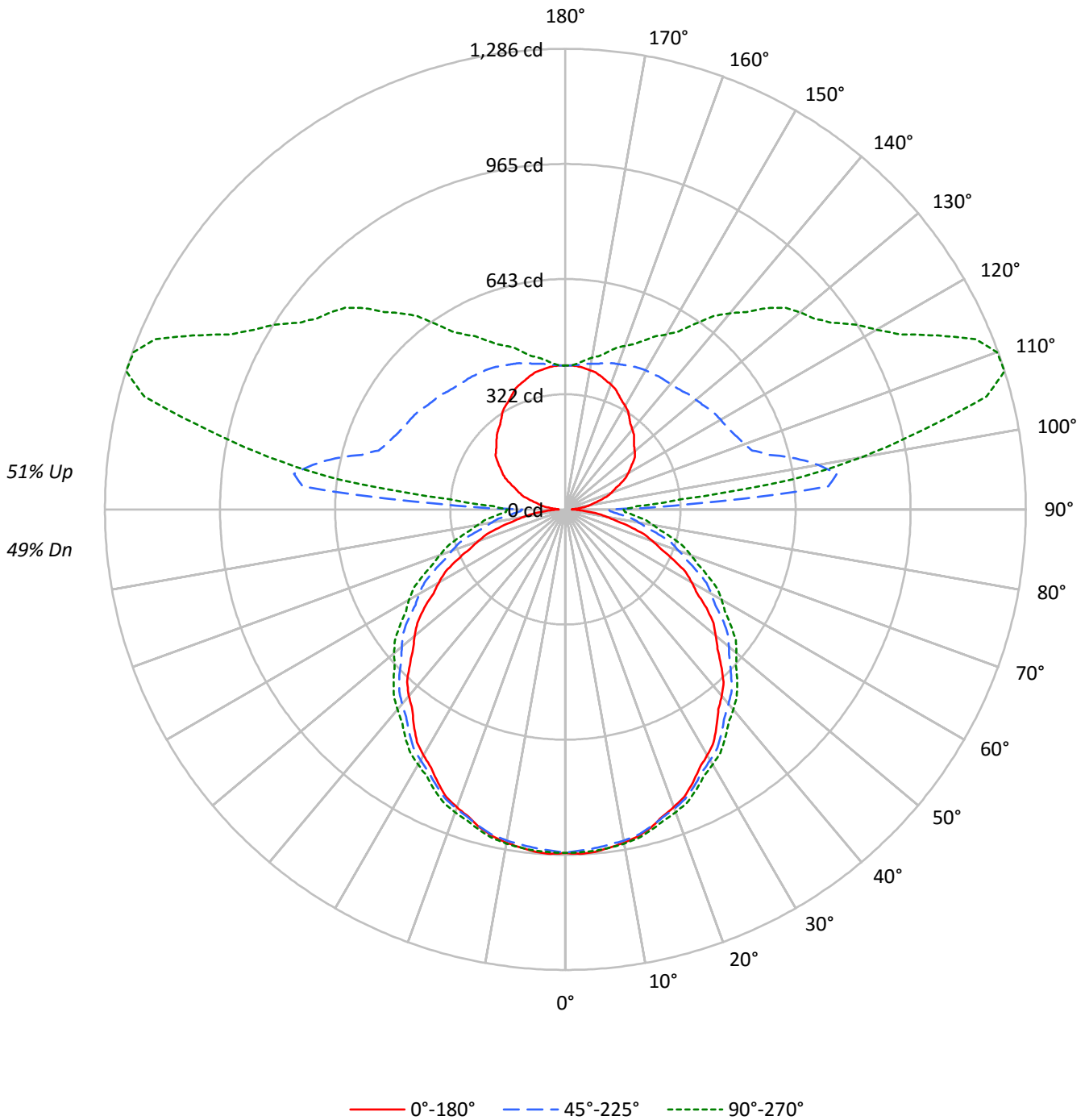
Lumens per Lamp: N/A
Luminaire Lumens: 6195.3 lumens
Efficiency: N/A
Efficacy: 135.0 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.08')
CIE Type: General Diffuse

Input Watts (W): 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: P332603-840
CATALOG NUMBER: SA4XXDIP-C795D810U840-4F0-1E-UDD-D4

Luminous Intensity Polar Plot





TEST NUMBER: P332603-840

CATALOG NUMBER: SA4XXDIP-C795D810U840-4F0-1E-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 | 97 | 92 | 88 | 84 | 89 | 85 | 81 | 78 | 71 | 68 | 66 | 59 | 57 | 55 | 47 | 46 | 45 | 39 |
| 2 | 87 | 80 | 73 | 68 | 80 | 73 | 68 | 63 | 62 | 57 | 54 | 51 | 48 | 45 | 41 | 39 | 37 | 32 |
| 3 | 80 | 70 | 62 | 56 | 73 | 64 | 57 | 52 | 54 | 49 | 45 | 45 | 41 | 38 | 36 | 33 | 31 | 27 |
| 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 | 29 | 25 | 23 | 19 |
| 6 | 61 | 49 | 40 | 34 | 56 | 45 | 38 | 32 | 38 | 32 | 28 | 32 | 27 | 24 | 26 | 22 | 20 | 17 |
| 7 | 56 | 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 | 23 | 45 | 34 | 27 | 22 | 29 | 23 | 19 | 24 | 20 | 17 | 20 | 16 | 14 | 12 |
| 10 | 45 | 33 | 26 | 21 | 42 | 31 | 24 | 20 | 26 | 21 | 17 | 22 | 18 | 15 | 18 | 15 | 13 | 11 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 7744 | 7744 | 7744 |
| 5° | 7768 | 7569 | 7589 |
| 10° | 7720 | 7444 | 7439 |
| 15° | 7651 | 7301 | 7261 |
| 20° | 7547 | 7143 | 7089 |
| 25° | 7429 | 6965 | 6898 |
| 30° | 7302 | 6789 | 6703 |
| 35° | 7158 | 6609 | 6532 |
| 40° | 7042 | 6436 | 6353 |
| 45° | 6871 | 6278 | 6200 |
| 50° | 6727 | 6095 | 6039 |
| 55° | 6577 | 5924 | 5849 |
| 60° | 6344 | 5704 | 5676 |
| 65° | 6089 | 5468 | 5463 |
| 70° | 5778 | 5200 | 5215 |
| 75° | 5348 | 4904 | 4991 |
| 80° | 4865 | 4620 | 4771 |
| 85° | 4264 | 4369 | 4644 |



TEST NUMBER: P332603-840

CATALOG NUMBER: SA4XXDIP-C795D810U840-4F0-1E-UDD-D4

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 90.8 | 1.5 |
| 10°-20° | 260.3 | 4.2 |
| 20°-30° | 393.5 | 6.4 |
| 30°-40° | 476.1 | 7.7 |
| 40°-50° | 503.4 | 8.1 |
| 50°-60° | 473.7 | 7.6 |
| 60°-70° | 393.1 | 6.3 |
| 70°-80° | 276.1 | 4.5 |
| 80°-90° | 158.3 | 2.6 |
| 90°-100° | 383.0 | 6.2 |
| 100°-110° | 672.8 | 10.9 |
| 110°-120° | 587.2 | 9.5 |
| 120°-130° | 481.2 | 7.8 |
| 130°-140° | 390.8 | 6.3 |
| 140°-150° | 292.2 | 4.7 |
| 150°-160° | 203.8 | 3.3 |
| 160°-170° | 119.9 | 1.9 |
| 170°-180° | 39.0 | 0.6 |
| 0°-30° | 744.6 | 12.0 |
| 0°-40° | 1220.8 | 19.7 |
| 0°-60° | 2197.9 | 35.5 |
| 0°-90° | 3025.3 | 48.8 |
| 90°-120° | 1643.0 | 26.5 |
| 90°-150° | 2807.2 | 45.3 |
| 90°-180° | 3170.0 | 51.2 |
| 0°-180° | 6195.3 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|-----|-------|-----|-------|------|------|
| 0° | 959 | 959 | 959 | 959 | 959 | |
| 5° | 960 | 957 | 950 | 958 | 957 | 91 |
| 15° | 921 | 921 | 918 | 928 | 927 | 259 |
| 25° | 842 | 848 | 852 | 863 | 865 | 388 |
| 35° | 737 | 750 | 760 | 775 | 779 | 461 |
| 45° | 614 | 635 | 655 | 673 | 679 | 475 |
| 55° | 481 | 504 | 536 | 557 | 564 | 429 |
| 65° | 333 | 368 | 404 | 430 | 439 | 330 |
| 75° | 185 | 225 | 270 | 299 | 309 | 196 |
| 85° | 57 | 102 | 150 | 181 | 193 | 61 |
| 90° | 18 | 67 | 121 | 152 | 163 | 13 |
| 95° | 40 | 132 | 737 | 440 | 325 | 40 |
| 105° | 102 | 166 | 589 | 1212 | 1217 | 109 |
| 115° | 169 | 222 | 512 | 961 | 1148 | 168 |
| 125° | 231 | 274 | 490 | 805 | 908 | 206 |
| 135° | 272 | 323 | 465 | 697 | 794 | 210 |
| 145° | 311 | 355 | 453 | 572 | 632 | 196 |
| 155° | 353 | 381 | 441 | 499 | 520 | 163 |
| 165° | 385 | 396 | 422 | 447 | 454 | 109 |
| 175° | 401 | 402 | 405 | 411 | 409 | 38 |
| 180° | 402 | 402 | 402 | 402 | 402 | |



TEST NUMBER: P332603-840

CATALOG NUMBER: SA4XXDIP-C795D810U840-4F0-1E-UDD-D4

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 959.3 | 959.3 | 959.3 | 959.3 | 959.3 | 959.3 | 959.3 | 959.3 | 959.3 | 959.3 | 959.3 |
| 2.5° | 962.7 | 962.1 | 961.5 | 961.0 | 960.4 | 959.4 | 957.8 | 956.2 | 954.7 | 953.2 | 954.5 |
| 5° | 960.3 | 959.6 | 958.9 | 958.2 | 957.5 | 956.2 | 954.5 | 952.9 | 951.2 | 949.6 | 951.5 |
| 7.5° | 952.1 | 951.7 | 951.3 | 950.9 | 950.4 | 949.5 | 948.2 | 946.7 | 945.3 | 944.0 | 946.1 |
| 10° | 945.2 | 945.0 | 944.8 | 944.5 | 944.3 | 943.6 | 942.4 | 941.2 | 940.0 | 938.8 | 941.0 |
| 12.5° | 935.8 | 935.7 | 935.7 | 935.6 | 935.6 | 935.2 | 934.4 | 933.5 | 932.7 | 931.9 | 933.9 |
| 15° | 920.6 | 920.8 | 921.0 | 921.3 | 921.5 | 921.3 | 920.6 | 919.9 | 919.1 | 918.4 | 920.6 |
| 17.5° | 899.7 | 900.4 | 901.1 | 901.9 | 902.6 | 902.8 | 902.7 | 902.6 | 902.4 | 902.3 | 904.5 |
| 20° | 885.1 | 885.9 | 886.6 | 887.3 | 888.0 | 888.5 | 888.7 | 888.9 | 889.2 | 889.4 | 891.8 |
| 22.5° | 868.8 | 869.7 | 870.6 | 871.5 | 872.4 | 873.1 | 873.5 | 873.9 | 874.3 | 874.8 | 877.2 |
| 25° | 842.1 | 843.5 | 845.1 | 846.5 | 847.9 | 849.0 | 849.7 | 850.4 | 851.1 | 851.8 | 854.4 |
| 27.5° | 812.5 | 814.6 | 816.7 | 818.8 | 820.9 | 822.5 | 823.6 | 824.7 | 825.8 | 826.9 | 829.3 |
| 30° | 792.7 | 794.7 | 796.6 | 798.5 | 800.4 | 802.1 | 803.9 | 805.5 | 807.2 | 808.8 | 811.4 |
| 32.5° | 771.2 | 773.6 | 775.9 | 778.1 | 780.4 | 782.4 | 784.4 | 786.2 | 788.1 | 789.9 | 792.9 |
| 35° | 736.9 | 739.7 | 742.7 | 745.5 | 748.3 | 750.9 | 753.4 | 755.8 | 758.1 | 760.5 | 763.9 |
| 37.5° | 702.3 | 705.6 | 708.9 | 712.2 | 715.5 | 718.6 | 721.5 | 724.5 | 727.5 | 730.4 | 733.9 |
| 40° | 679.9 | 683.1 | 686.1 | 689.2 | 692.4 | 695.6 | 698.9 | 702.3 | 705.6 | 708.9 | 712.6 |
| 42.5° | 654.2 | 657.6 | 661.2 | 664.6 | 668.1 | 671.8 | 675.7 | 679.6 | 683.6 | 687.4 | 691.5 |
| 45° | 614.4 | 618.9 | 623.5 | 628.0 | 632.6 | 637.1 | 641.7 | 646.2 | 650.7 | 655.2 | 659.3 |
| 47.5° | 576.4 | 581.1 | 585.7 | 590.5 | 595.1 | 600.1 | 605.3 | 610.6 | 615.8 | 621.1 | 625.3 |
| 50° | 548.9 | 554.1 | 559.4 | 564.6 | 569.9 | 575.1 | 580.4 | 585.6 | 590.9 | 596.1 | 601.0 |
| 52.5° | 521.4 | 526.6 | 531.9 | 537.1 | 542.4 | 548.1 | 554.0 | 560.1 | 566.1 | 572.1 | 576.8 |
| 55° | 481.2 | 486.3 | 491.3 | 496.2 | 501.3 | 507.4 | 514.5 | 521.7 | 528.9 | 536.0 | 540.8 |
| 57.5° | 436.4 | 442.5 | 448.8 | 454.9 | 461.1 | 467.8 | 474.9 | 482.0 | 489.2 | 496.2 | 501.9 |
| 60° | 407.1 | 413.3 | 419.5 | 425.8 | 431.9 | 439.0 | 446.9 | 454.7 | 462.6 | 470.5 | 475.9 |
| 62.5° | 378.7 | 385.6 | 392.3 | 399.1 | 405.9 | 413.2 | 421.1 | 429.0 | 436.9 | 444.7 | 450.2 |
| 65° | 333.0 | 340.6 | 348.3 | 355.9 | 363.6 | 371.4 | 379.5 | 387.7 | 395.8 | 403.8 | 409.8 |
| 67.5° | 288.9 | 297.1 | 305.2 | 313.3 | 321.4 | 329.8 | 338.5 | 347.2 | 355.9 | 364.6 | 370.6 |
| 70° | 258.8 | 267.0 | 275.1 | 283.3 | 291.3 | 299.9 | 309.0 | 318.1 | 327.1 | 336.2 | 342.6 |
| 72.5° | 229.6 | 237.9 | 246.3 | 254.6 | 262.9 | 271.9 | 281.6 | 291.1 | 300.8 | 310.4 | 316.7 |
| 75° | 184.8 | 193.6 | 202.4 | 211.3 | 220.0 | 229.5 | 239.5 | 249.5 | 259.6 | 269.6 | 276.3 |
| 77.5° | 142.9 | 152.2 | 161.6 | 171.0 | 180.3 | 190.3 | 200.8 | 211.3 | 221.8 | 232.3 | 239.0 |
| 80° | 117.0 | 126.6 | 136.1 | 145.7 | 155.3 | 165.3 | 175.8 | 186.3 | 196.8 | 207.3 | 214.5 |
| 82.5° | 91.3 | 101.2 | 111.2 | 121.1 | 131.0 | 141.3 | 151.8 | 162.3 | 172.8 | 183.3 | 190.6 |
| 85° | 57.0 | 67.0 | 77.0 | 87.1 | 97.0 | 107.4 | 118.2 | 128.9 | 139.7 | 150.4 | 157.5 |
| 87.5° | 31.9 | 42.0 | 52.2 | 62.1 | 72.0 | 82.1 | 93.5 | 104.0 | 114.7 | 125.5 | 132.3 |
| 90° | 18.0 | 29.1 | 41.0 | 51.4 | 61.7 | 71.6 | 86.6 | 96.8 | 108.8 | 120.6 | 126.7 |
| 92.5° | 25.3 | 38.1 | 54.0 | 72.3 | 92.4 | 118.3 | 168.6 | 240.1 | 310.1 | 351.6 | 316.5 |
| 95° | 40.0 | 50.3 | 66.0 | 84.2 | 111.0 | 153.0 | 231.5 | 370.8 | 569.3 | 737.0 | 761.6 |
| 97.5° | 59.4 | 66.2 | 79.8 | 96.0 | 119.1 | 155.1 | 217.7 | 334.3 | 531.6 | 764.6 | 924.3 |
| 100° | 71.8 | 78.1 | 89.8 | 105.4 | 126.6 | 159.7 | 215.6 | 314.2 | 484.5 | 716.5 | 925.1 |
| 102.5° | 84.4 | 91.2 | 101.5 | 115.8 | 135.6 | 166.9 | 218.1 | 305.8 | 452.0 | 658.5 | 873.2 |
| 105° | 102.1 | 109.2 | 118.0 | 132.2 | 151.2 | 180.9 | 227.6 | 301.9 | 421.3 | 588.9 | 780.4 |
| 107.5° | 123.6 | 129.2 | 137.0 | 151.0 | 168.5 | 197.2 | 240.3 | 308.4 | 411.2 | 547.2 | 704.6 |
| 110° | 137.3 | 142.2 | 149.6 | 162.3 | 179.9 | 207.0 | 250.1 | 313.8 | 409.0 | 531.9 | 666.0 |



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CATALOG NUMBER: SA4XXDIP-C795D810U840-4F0-1E-UDD-D4

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 150.4 | 154.9 | 162.4 | 174.2 | 191.4 | 218.2 | 259.6 | 319.7 | 408.9 | 521.9 | 642.0 |
| 115° | 169.2 | 173.6 | 181.3 | 191.4 | 208.5 | 234.7 | 274.0 | 328.9 | 410.0 | 512.4 | 617.1 |
| 117.5° | 189.8 | 193.3 | 199.4 | 209.4 | 224.8 | 251.1 | 288.2 | 338.9 | 411.8 | 505.2 | 602.2 |
| 120° | 202.8 | 205.1 | 211.4 | 220.8 | 234.9 | 260.7 | 297.7 | 345.7 | 413.4 | 500.9 | 593.3 |
| 122.5° | 215.4 | 217.1 | 222.8 | 231.0 | 245.8 | 270.6 | 307.2 | 352.2 | 415.2 | 495.9 | 584.0 |
| 125° | 231.0 | 233.9 | 238.3 | 246.8 | 261.6 | 286.5 | 320.9 | 363.2 | 418.9 | 489.7 | 570.0 |
| 127.5° | 245.4 | 247.7 | 253.2 | 262.9 | 278.2 | 302.7 | 334.8 | 372.6 | 420.6 | 481.5 | 552.1 |
| 130° | 252.8 | 255.7 | 261.8 | 273.4 | 288.1 | 312.9 | 343.5 | 378.1 | 422.2 | 476.6 | 540.9 |
| 132.5° | 260.9 | 263.3 | 271.2 | 282.2 | 298.2 | 321.2 | 351.1 | 384.4 | 423.9 | 472.4 | 530.9 |
| 135° | 271.5 | 274.6 | 282.5 | 295.9 | 312.5 | 333.9 | 361.5 | 391.6 | 425.8 | 465.2 | 514.9 |
| 137.5° | 283.0 | 285.7 | 294.2 | 306.7 | 323.7 | 343.6 | 368.7 | 396.1 | 425.6 | 460.2 | 501.4 |
| 140° | 291.1 | 293.3 | 301.7 | 314.9 | 331.2 | 350.2 | 374.2 | 399.6 | 426.8 | 457.0 | 494.0 |
| 142.5° | 299.1 | 301.4 | 309.4 | 322.2 | 338.1 | 356.4 | 379.2 | 402.5 | 427.9 | 455.2 | 488.2 |
| 145° | 311.4 | 313.6 | 321.2 | 332.0 | 346.8 | 364.1 | 384.6 | 405.9 | 428.8 | 453.2 | 480.0 |
| 147.5° | 325.5 | 326.0 | 332.8 | 343.9 | 356.1 | 371.6 | 390.9 | 409.5 | 429.6 | 450.4 | 472.8 |
| 150° | 334.3 | 334.9 | 340.9 | 350.1 | 361.7 | 376.7 | 394.0 | 411.4 | 429.6 | 448.5 | 468.3 |
| 152.5° | 341.6 | 341.7 | 348.0 | 356.8 | 367.4 | 381.1 | 396.6 | 412.6 | 428.3 | 445.4 | 463.2 |
| 155° | 352.9 | 353.8 | 358.5 | 366.4 | 375.1 | 386.9 | 400.3 | 413.7 | 426.4 | 440.6 | 455.7 |
| 157.5° | 364.2 | 364.2 | 368.6 | 374.8 | 382.3 | 391.6 | 403.0 | 413.7 | 424.3 | 435.8 | 447.9 |
| 160° | 371.1 | 371.1 | 374.3 | 379.8 | 386.2 | 394.9 | 404.2 | 413.7 | 422.4 | 431.9 | 442.2 |
| 162.5° | 377.5 | 376.8 | 379.3 | 384.3 | 389.9 | 396.7 | 405.6 | 413.7 | 420.6 | 428.2 | 437.2 |
| 165° | 384.6 | 384.6 | 386.2 | 390.1 | 394.0 | 398.8 | 405.9 | 412.2 | 417.0 | 422.4 | 428.8 |
| 167.5° | 391.6 | 390.9 | 391.6 | 394.7 | 396.9 | 400.5 | 405.8 | 410.3 | 413.1 | 416.8 | 421.2 |
| 170° | 394.9 | 394.0 | 394.9 | 397.2 | 398.8 | 401.1 | 405.1 | 409.0 | 410.6 | 412.9 | 416.2 |
| 172.5° | 398.0 | 397.2 | 397.4 | 399.1 | 400.0 | 401.7 | 404.5 | 407.8 | 408.1 | 409.2 | 411.7 |
| 175° | 401.1 | 400.3 | 400.3 | 401.1 | 401.9 | 401.9 | 403.5 | 405.9 | 405.1 | 405.1 | 406.7 |
| 177.5° | 402.5 | 401.9 | 401.3 | 401.9 | 401.9 | 401.9 | 402.5 | 403.8 | 402.5 | 402.5 | 403.1 |
| 180° | 401.9 | 401.9 | 401.9 | 401.9 | 401.9 | 401.9 | 401.9 | 401.9 | 401.9 | 401.9 | 401.9 |



TEST NUMBER: P332603-840

CATALOG NUMBER: SA4XXDIP-C795D810U840-4F0-1E-UDD-D4

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 959.3 | 959.3 | 959.3 | 959.3 | 959.3 | 959.3 | 959.3 | 959.3 |
| 2.5° | 955.8 | 957.3 | 958.6 | 959.2 | 959.0 | 958.8 | 958.6 | 958.4 |
| 5° | 953.4 | 955.3 | 957.2 | 958.1 | 957.8 | 957.6 | 957.4 | 957.0 |
| 7.5° | 948.3 | 950.4 | 952.6 | 953.5 | 953.3 | 953.0 | 952.8 | 952.6 |
| 10° | 943.1 | 945.2 | 947.5 | 948.4 | 948.2 | 947.9 | 947.7 | 947.5 |
| 12.5° | 935.8 | 937.9 | 939.8 | 940.7 | 940.7 | 940.6 | 940.6 | 940.5 |
| 15° | 922.7 | 924.8 | 927.0 | 928.0 | 927.8 | 927.5 | 927.3 | 927.0 |
| 17.5° | 906.7 | 908.9 | 911.1 | 912.1 | 911.9 | 911.7 | 911.5 | 911.3 |
| 20° | 894.1 | 896.6 | 899.0 | 900.2 | 900.2 | 900.2 | 900.2 | 900.2 |
| 22.5° | 879.6 | 881.9 | 884.3 | 885.8 | 886.2 | 886.5 | 886.9 | 887.3 |
| 25° | 857.1 | 859.7 | 862.3 | 863.7 | 863.9 | 864.2 | 864.4 | 864.7 |
| 27.5° | 831.7 | 834.1 | 836.7 | 838.0 | 838.3 | 838.6 | 838.9 | 839.1 |
| 30° | 814.1 | 816.7 | 819.3 | 820.9 | 821.4 | 821.8 | 822.3 | 822.8 |
| 32.5° | 796.0 | 799.0 | 801.9 | 803.8 | 804.2 | 804.7 | 805.2 | 805.7 |
| 35° | 767.2 | 770.5 | 773.9 | 775.9 | 776.6 | 777.3 | 778.1 | 778.8 |
| 37.5° | 737.2 | 740.6 | 744.0 | 746.1 | 746.8 | 747.6 | 748.3 | 749.1 |
| 40° | 716.1 | 719.7 | 723.3 | 725.5 | 726.5 | 727.4 | 728.4 | 729.3 |
| 42.5° | 695.4 | 699.3 | 703.3 | 705.7 | 706.4 | 707.2 | 708.0 | 708.7 |
| 45° | 663.4 | 667.4 | 671.5 | 674.1 | 675.3 | 676.5 | 677.7 | 678.8 |
| 47.5° | 629.4 | 633.7 | 637.9 | 640.7 | 642.2 | 643.6 | 645.0 | 646.4 |
| 50° | 605.7 | 610.5 | 615.2 | 618.3 | 619.8 | 621.3 | 622.7 | 624.1 |
| 52.5° | 581.7 | 586.4 | 591.2 | 594.3 | 595.7 | 597.1 | 598.5 | 600.1 |
| 55° | 545.5 | 550.4 | 555.1 | 558.3 | 559.7 | 561.1 | 562.5 | 563.9 |
| 57.5° | 507.7 | 513.3 | 519.0 | 522.5 | 523.8 | 525.1 | 526.5 | 527.9 |
| 60° | 481.5 | 487.0 | 492.4 | 496.1 | 498.1 | 500.0 | 501.9 | 503.8 |
| 62.5° | 455.7 | 461.2 | 466.7 | 470.4 | 472.3 | 474.2 | 476.1 | 478.0 |
| 65° | 415.9 | 421.8 | 427.8 | 431.7 | 433.6 | 435.6 | 437.4 | 439.3 |
| 67.5° | 376.7 | 382.7 | 388.8 | 392.7 | 394.7 | 396.5 | 398.4 | 400.2 |
| 70° | 349.1 | 355.6 | 362.0 | 366.1 | 367.7 | 369.4 | 371.0 | 372.7 |
| 72.5° | 323.0 | 329.2 | 335.5 | 339.5 | 341.3 | 343.3 | 345.1 | 347.0 |
| 75° | 283.0 | 289.6 | 296.4 | 300.7 | 303.0 | 305.1 | 307.2 | 309.3 |
| 77.5° | 245.8 | 252.6 | 259.3 | 263.9 | 266.2 | 268.4 | 270.7 | 273.1 |
| 80° | 221.7 | 228.8 | 236.0 | 240.4 | 242.4 | 244.3 | 246.2 | 248.1 |
| 82.5° | 197.9 | 205.3 | 212.7 | 217.4 | 219.4 | 221.6 | 223.7 | 225.8 |
| 85° | 164.7 | 171.9 | 179.0 | 183.8 | 186.2 | 188.5 | 191.0 | 193.4 |
| 87.5° | 139.4 | 146.4 | 153.5 | 158.0 | 160.3 | 162.6 | 164.5 | 166.6 |
| 90° | 134.4 | 142.1 | 149.9 | 154.2 | 156.9 | 159.7 | 160.8 | 162.7 |
| 92.5° | 269.7 | 238.1 | 221.0 | 209.5 | 202.1 | 199.8 | 198.9 | 200.9 |
| 95° | 691.5 | 575.5 | 476.2 | 403.8 | 367.3 | 345.0 | 333.0 | 324.8 |
| 97.5° | 963.8 | 924.5 | 853.6 | 775.3 | 720.6 | 675.2 | 653.6 | 639.1 |
| 100° | 1046.8 | 1069.0 | 1036.8 | 982.4 | 915.4 | 868.9 | 846.9 | 842.2 |
| 102.5° | 1037.7 | 1122.3 | 1139.7 | 1119.5 | 1079.2 | 1046.2 | 1023.1 | 1019.9 |
| 105° | 967.2 | 1109.8 | 1194.0 | 1230.2 | 1233.8 | 1229.3 | 1220.2 | 1217.4 |
| 107.5° | 870.6 | 1022.0 | 1137.9 | 1212.1 | 1252.8 | 1272.5 | 1282.2 | 1286.0 |
| 110° | 812.1 | 954.2 | 1074.2 | 1164.8 | 1222.7 | 1257.8 | 1273.9 | 1282.9 |



TEST NUMBER: P332603-840

CATALOG NUMBER: SA4XXDIP-C795D810U840-4F0-1E-UDD-D4

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|-------|-------|--------|--------|--------|--------|--------|--------|
| 112.5° | 767.6 | 893.7 | 1007.2 | 1097.7 | 1163.3 | 1205.3 | 1227.1 | 1240.5 |
| 115° | 721.1 | 823.5 | 921.1 | 1000.4 | 1064.5 | 1113.5 | 1140.4 | 1148.4 |
| 117.5° | 694.5 | 779.9 | 857.5 | 925.2 | 980.4 | 1022.1 | 1049.6 | 1056.3 |
| 120° | 681.0 | 759.2 | 827.2 | 886.6 | 933.5 | 970.2 | 992.6 | 1003.2 |
| 122.5° | 669.1 | 744.8 | 807.1 | 859.4 | 899.2 | 930.6 | 949.7 | 960.1 |
| 125° | 650.4 | 722.8 | 781.8 | 828.2 | 861.2 | 885.6 | 902.0 | 908.2 |
| 127.5° | 627.6 | 696.8 | 755.5 | 799.6 | 832.9 | 855.0 | 869.2 | 875.6 |
| 130° | 610.7 | 677.3 | 735.4 | 780.0 | 813.9 | 835.1 | 849.1 | 855.3 |
| 132.5° | 593.6 | 656.3 | 712.9 | 757.4 | 790.6 | 814.4 | 827.8 | 833.9 |
| 135° | 568.5 | 623.6 | 675.6 | 717.7 | 750.7 | 774.3 | 788.3 | 794.5 |
| 137.5° | 546.2 | 593.2 | 637.2 | 675.3 | 706.0 | 729.0 | 740.6 | 747.5 |
| 140° | 533.5 | 573.7 | 612.3 | 647.6 | 676.5 | 695.0 | 707.3 | 714.8 |
| 142.5° | 522.1 | 557.5 | 590.8 | 621.4 | 646.8 | 664.0 | 674.7 | 680.1 |
| 145° | 506.6 | 534.9 | 560.1 | 583.4 | 604.1 | 618.4 | 627.3 | 632.2 |
| 147.5° | 493.9 | 515.4 | 534.5 | 552.4 | 567.7 | 580.0 | 586.7 | 589.0 |
| 150° | 487.2 | 505.3 | 521.2 | 535.3 | 548.1 | 558.3 | 563.0 | 563.8 |
| 152.5° | 480.3 | 495.8 | 510.4 | 522.1 | 532.8 | 541.2 | 544.0 | 544.8 |
| 155° | 469.8 | 482.5 | 494.3 | 503.8 | 511.7 | 518.0 | 520.4 | 520.4 |
| 157.5° | 458.6 | 469.2 | 479.2 | 486.8 | 492.7 | 497.5 | 498.9 | 498.9 |
| 160° | 451.7 | 460.4 | 469.1 | 475.3 | 480.1 | 484.8 | 485.6 | 485.6 |
| 162.5° | 444.7 | 452.1 | 459.0 | 464.6 | 468.1 | 472.8 | 473.6 | 473.0 |
| 165° | 435.0 | 439.8 | 445.4 | 449.3 | 452.4 | 455.7 | 454.8 | 454.0 |
| 167.5° | 425.8 | 429.4 | 433.8 | 436.2 | 437.8 | 439.8 | 439.7 | 439.0 |
| 170° | 420.1 | 422.4 | 425.7 | 428.0 | 429.6 | 430.3 | 429.6 | 429.6 |
| 172.5° | 415.1 | 416.8 | 418.7 | 420.4 | 421.3 | 422.1 | 421.3 | 420.1 |
| 175° | 408.3 | 409.0 | 410.6 | 410.6 | 410.6 | 412.2 | 410.6 | 409.0 |
| 177.5° | 403.8 | 404.5 | 404.5 | 405.1 | 404.5 | 405.1 | 403.8 | 402.5 |
| 180° | 401.9 | 401.9 | 401.9 | 401.9 | 401.9 | 401.9 | 401.9 | 401.9 |

(END OF REPORT)