

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: P331636-935

Luminaire Tested: **SA2XXRDIP-C290D925U935-4F0-1E-UDD-F**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P331636-935
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-2,
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: SA2XXRDIP-C290D925U935-4F0-1E-UDD-F
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 290 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER, REGRESSED
HOUSING
UPLIGHT 925 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

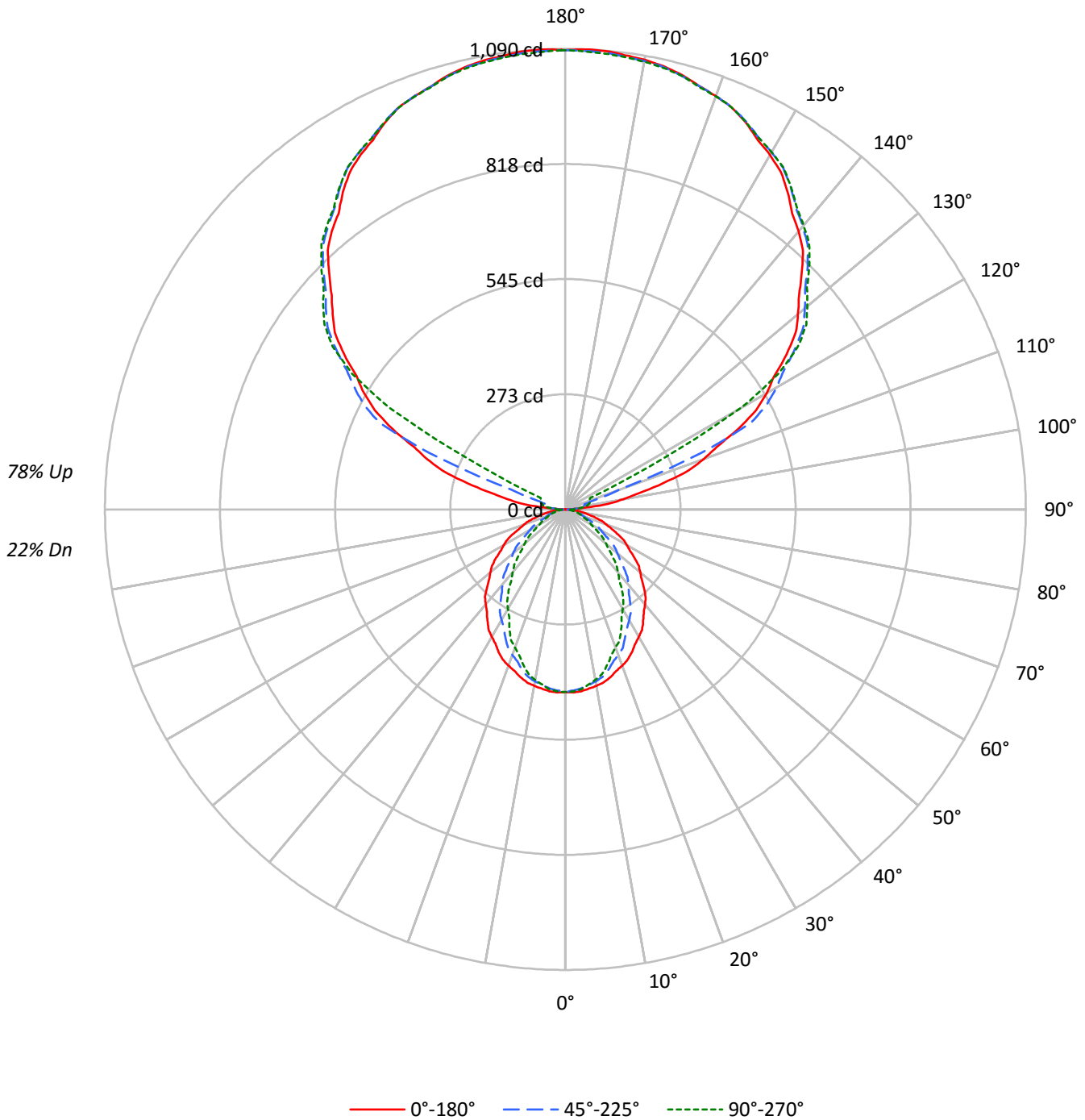
Lumens per Lamp: N/A
Luminaire Lumens: 4076.3 lumens
Efficiency: N/A
Efficacy: 109.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 0.99 / 1.16
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 37.3
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: P331636-935
CATALOG NUMBER: SA2XXRDIP-C290D925U935-4F0-1E-UDD-F

Luminous Intensity Polar Plot





TEST NUMBER: P331636-935

CATALOG NUMBER: SA2XXRDIP-C290D925U935-4F0-1E-UDD-F

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 | 100 | 100 | 100 | 100 | 89 | 89 | 89 | 89 | 68 | 68 | 68 | 48 | 48 | 48 | 30 | 30 | 30 | 22 |
| 1 | 92 | 88 | 84 | 81 | 81 | 78 | 75 | 72 | 59 | 57 | 56 | 43 | 41 | 40 | 27 | 26 | 26 | 19 |
| 2 | 84 | 77 | 71 | 66 | 74 | 68 | 63 | 59 | 52 | 49 | 46 | 38 | 36 | 34 | 24 | 23 | 22 | 16 |
| 3 | 76 | 67 | 61 | 55 | 67 | 60 | 54 | 50 | 46 | 42 | 39 | 33 | 31 | 29 | 21 | 20 | 19 | 14 |
| 4 | 70 | 60 | 52 | 47 | 62 | 53 | 47 | 42 | 41 | 37 | 33 | 30 | 27 | 25 | 19 | 18 | 17 | 12 |
| 5 | 64 | 53 | 46 | 40 | 57 | 47 | 41 | 36 | 37 | 32 | 29 | 27 | 24 | 22 | 17 | 16 | 14 | 11 |
| 6 | 59 | 48 | 40 | 34 | 52 | 43 | 36 | 31 | 33 | 28 | 25 | 24 | 21 | 19 | 16 | 14 | 13 | 9 |
| 7 | 54 | 43 | 35 | 30 | 48 | 38 | 32 | 27 | 30 | 25 | 22 | 22 | 19 | 17 | 14 | 13 | 11 | 8 |
| 8 | 50 | 39 | 31 | 26 | 45 | 35 | 28 | 24 | 27 | 23 | 19 | 20 | 17 | 15 | 13 | 12 | 10 | 8 |
| 9 | 47 | 35 | 28 | 23 | 41 | 32 | 26 | 21 | 25 | 20 | 17 | 18 | 15 | 13 | 12 | 11 | 9 | 7 |
| 10 | 44 | 32 | 25 | 21 | 39 | 29 | 23 | 19 | 23 | 18 | 15 | 17 | 14 | 12 | 11 | 10 | 8 | 6 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 6978 | 6978 | 6978 |
| 5° | 7005 | 6891 | 6929 |
| 10° | 6951 | 6779 | 6720 |
| 15° | 6870 | 6578 | 6387 |
| 20° | 6761 | 6290 | 5976 |
| 25° | 6649 | 5964 | 5574 |
| 30° | 6490 | 5630 | 5062 |
| 35° | 6337 | 5267 | 4610 |
| 40° | 6182 | 4890 | 4089 |
| 45° | 6003 | 4464 | 3617 |
| 50° | 5815 | 4037 | 3152 |
| 55° | 5624 | 3578 | 2711 |
| 60° | 5406 | 3094 | 2251 |
| 65° | 5154 | 2598 | 2048 |
| 70° | 4858 | 2143 | 1884 |
| 75° | 4492 | 1953 | 1759 |
| 80° | 3961 | 1748 | 1599 |
| 85° | 3112 | 1371 | 1371 |



TEST NUMBER: P331636-935

CATALOG NUMBER: SA2XXRDIP-C290D925U935-4F0-1E-UDD-F

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 40.5 | 1.0 |
| 10°-20° | 111.1 | 2.7 |
| 20°-30° | 156.0 | 3.8 |
| 30°-40° | 170.1 | 4.2 |
| 40°-50° | 156.4 | 3.8 |
| 50°-60° | 122.8 | 3.0 |
| 60°-70° | 80.1 | 2.0 |
| 70°-80° | 41.3 | 1.0 |
| 80°-90° | 13.4 | 0.3 |
| 90°-100° | 36.2 | 0.9 |
| 100°-110° | 132.9 | 3.3 |
| 110°-120° | 355.3 | 8.7 |
| 120°-130° | 586.6 | 14.4 |
| 130°-140° | 623.8 | 15.3 |
| 140°-150° | 579.8 | 14.2 |
| 150°-160° | 466.2 | 11.4 |
| 160°-170° | 300.4 | 7.4 |
| 170°-180° | 103.4 | 2.5 |
| 0°-30° | 307.5 | 7.5 |
| 0°-40° | 477.6 | 11.7 |
| 0°-60° | 756.8 | 18.6 |
| 0°-90° | 891.6 | 21.9 |
| 90°-120° | 524.5 | 12.9 |
| 90°-150° | 2314.7 | 56.8 |
| 90°-180° | 3185.0 | 78.1 |
| 0°-180° | 4076.3 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 432 | 432 | 432 | 432 | 432 | |
| 5° | 432 | 430 | 425 | 428 | 428 | 41 |
| 15° | 411 | 406 | 394 | 386 | 382 | 116 |
| 25° | 373 | 360 | 335 | 319 | 313 | 172 |
| 35° | 322 | 301 | 267 | 243 | 234 | 201 |
| 45° | 263 | 236 | 196 | 169 | 158 | 203 |
| 55° | 200 | 169 | 127 | 104 | 96 | 179 |
| 65° | 135 | 103 | 68 | 55 | 54 | 134 |
| 75° | 72 | 45 | 31 | 29 | 28 | 76 |
| 85° | 17 | 9 | 7 | 7 | 7 | 20 |
| 90° | 1 | 9 | 16 | 20 | 21 | 3 |
| 95° | 51 | 27 | 31 | 34 | 34 | 63 |
| 105° | 239 | 249 | 48 | 56 | 60 | 255 |
| 115° | 452 | 466 | 485 | 138 | 64 | 445 |
| 125° | 639 | 650 | 664 | 670 | 672 | 570 |
| 135° | 791 | 803 | 811 | 818 | 817 | 611 |
| 145° | 918 | 918 | 930 | 935 | 932 | 574 |
| 155° | 1010 | 1004 | 1013 | 1017 | 1011 | 465 |
| 165° | 1065 | 1060 | 1062 | 1067 | 1062 | 301 |
| 175° | 1089 | 1084 | 1085 | 1090 | 1083 | 104 |
| 180° | 1087 | 1087 | 1087 | 1087 | 1087 | |



TEST NUMBER: P331636-935

CATALOG NUMBER: SA2XXRDIP-C290D925U935-4F0-1E-UDD-F

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 432.2 | 432.2 | 432.2 | 432.2 | 432.2 | 432.2 | 432.2 | 432.2 | 432.2 | 432.2 | 432.2 |
| 2.5° | 433.8 | 433.4 | 433.1 | 432.7 | 432.4 | 431.8 | 431.0 | 430.3 | 429.6 | 428.8 | 429.5 |
| 5° | 432.2 | 431.8 | 431.4 | 430.9 | 430.5 | 429.6 | 428.5 | 427.4 | 426.3 | 425.2 | 425.9 |
| 7.5° | 427.7 | 427.2 | 426.6 | 426.1 | 425.6 | 424.6 | 423.4 | 422.0 | 420.7 | 419.4 | 419.6 |
| 10° | 424.0 | 423.4 | 422.8 | 422.1 | 421.5 | 420.3 | 418.6 | 416.9 | 415.2 | 413.5 | 413.2 |
| 12.5° | 419.3 | 418.5 | 417.8 | 417.1 | 416.3 | 414.8 | 412.6 | 410.4 | 408.1 | 405.9 | 405.4 |
| 15° | 411.0 | 410.1 | 409.1 | 408.2 | 407.3 | 405.3 | 402.3 | 399.4 | 396.4 | 393.5 | 391.8 |
| 17.5° | 401.0 | 399.5 | 398.0 | 396.6 | 395.1 | 392.5 | 388.7 | 385.0 | 381.2 | 377.4 | 375.4 |
| 20° | 393.5 | 391.8 | 390.0 | 388.2 | 386.5 | 383.5 | 379.1 | 374.8 | 370.5 | 366.1 | 363.9 |
| 22.5° | 385.4 | 383.4 | 381.4 | 379.5 | 377.5 | 374.1 | 369.2 | 364.3 | 359.5 | 354.6 | 351.7 |
| 25° | 373.2 | 370.3 | 367.6 | 364.8 | 362.1 | 357.7 | 352.0 | 346.3 | 340.5 | 334.8 | 331.2 |
| 27.5° | 358.4 | 355.4 | 352.4 | 349.4 | 346.3 | 341.6 | 335.1 | 328.6 | 322.2 | 315.7 | 311.6 |
| 30° | 348.1 | 344.8 | 341.5 | 338.2 | 334.9 | 329.8 | 322.8 | 315.9 | 308.9 | 302.0 | 297.6 |
| 32.5° | 338.1 | 334.2 | 330.4 | 326.5 | 322.6 | 317.2 | 310.1 | 303.0 | 295.9 | 288.8 | 283.8 |
| 35° | 321.5 | 317.1 | 312.6 | 308.2 | 303.8 | 297.7 | 290.1 | 282.4 | 274.8 | 267.2 | 261.7 |
| 37.5° | 305.0 | 300.1 | 295.2 | 290.3 | 285.4 | 279.0 | 270.8 | 262.6 | 254.5 | 246.3 | 240.3 |
| 40° | 293.3 | 288.2 | 282.9 | 277.7 | 272.5 | 265.7 | 257.3 | 248.8 | 240.4 | 232.0 | 225.8 |
| 42.5° | 281.5 | 276.0 | 270.4 | 265.0 | 259.5 | 252.4 | 243.7 | 235.0 | 226.3 | 217.6 | 211.2 |
| 45° | 262.9 | 257.0 | 251.2 | 245.4 | 239.5 | 232.0 | 222.9 | 213.8 | 204.7 | 195.5 | 189.4 |
| 47.5° | 244.7 | 238.5 | 232.4 | 226.2 | 220.0 | 212.2 | 202.8 | 193.4 | 183.9 | 174.5 | 168.4 |
| 50° | 231.5 | 225.4 | 219.2 | 213.0 | 206.9 | 199.0 | 189.4 | 179.9 | 170.3 | 160.7 | 154.7 |
| 52.5° | 218.7 | 212.2 | 205.9 | 199.4 | 193.0 | 185.0 | 175.6 | 166.3 | 157.0 | 147.6 | 141.8 |
| 55° | 199.8 | 193.1 | 186.3 | 179.5 | 172.7 | 164.7 | 155.2 | 145.9 | 136.5 | 127.1 | 121.9 |
| 57.5° | 180.6 | 173.6 | 166.6 | 159.7 | 152.7 | 144.7 | 135.7 | 126.7 | 117.7 | 108.7 | 103.8 |
| 60° | 167.4 | 160.5 | 153.5 | 146.5 | 139.6 | 131.6 | 122.7 | 113.7 | 104.8 | 95.8 | 91.4 |
| 62.5° | 154.5 | 147.7 | 140.7 | 133.7 | 126.7 | 119.0 | 110.5 | 101.9 | 93.4 | 84.9 | 80.7 |
| 65° | 134.9 | 127.9 | 120.9 | 113.8 | 106.8 | 99.4 | 91.5 | 83.7 | 75.9 | 68.0 | 65.1 |
| 67.5° | 116.0 | 109.0 | 102.0 | 95.1 | 88.1 | 81.0 | 74.0 | 67.0 | 59.9 | 52.9 | 51.5 |
| 70° | 102.9 | 96.1 | 89.3 | 82.6 | 75.8 | 69.4 | 63.4 | 57.3 | 51.4 | 45.4 | 44.5 |
| 72.5° | 90.3 | 83.9 | 77.3 | 70.9 | 64.3 | 58.7 | 53.9 | 49.1 | 44.3 | 39.4 | 38.7 |
| 75° | 72.0 | 65.9 | 59.8 | 53.7 | 47.6 | 43.1 | 40.1 | 37.2 | 34.3 | 31.3 | 30.7 |
| 77.5° | 53.9 | 48.6 | 43.2 | 37.9 | 32.5 | 29.2 | 27.7 | 26.3 | 24.9 | 23.5 | 23.2 |
| 80° | 42.6 | 38.2 | 33.8 | 29.4 | 24.9 | 22.2 | 21.4 | 20.5 | 19.6 | 18.8 | 18.4 |
| 82.5° | 32.3 | 28.8 | 25.4 | 22.0 | 18.5 | 16.4 | 15.8 | 15.2 | 14.6 | 14.1 | 13.9 |
| 85° | 16.8 | 15.0 | 13.2 | 11.4 | 9.6 | 8.4 | 8.2 | 7.9 | 7.7 | 7.4 | 7.4 |
| 87.5° | 5.2 | 5.0 | 4.8 | 4.6 | 4.5 | 4.6 | 4.8 | 5.1 | 5.3 | 5.7 | 5.8 |
| 90° | 0.8 | 2.7 | 4.6 | 6.5 | 8.4 | 10.2 | 11.5 | 12.9 | 14.3 | 15.8 | 16.6 |
| 92.5° | 15.8 | 15.7 | 15.5 | 15.3 | 15.2 | 15.4 | 16.2 | 16.9 | 17.6 | 18.3 | 18.7 |
| 95° | 51.1 | 45.4 | 39.6 | 33.8 | 28.1 | 25.7 | 27.0 | 28.2 | 29.4 | 30.7 | 31.5 |
| 97.5° | 101.4 | 85.2 | 69.0 | 52.7 | 36.4 | 29.7 | 32.5 | 35.4 | 38.2 | 41.1 | 41.8 |
| 100° | 139.2 | 115.2 | 91.3 | 67.3 | 43.4 | 33.0 | 35.9 | 38.9 | 41.8 | 44.9 | 46.2 |
| 102.5° | 180.7 | 175.6 | 170.6 | 165.5 | 160.4 | 145.5 | 120.6 | 95.7 | 70.9 | 46.1 | 47.9 |
| 105° | 239.0 | 244.3 | 249.5 | 254.8 | 260.0 | 238.8 | 191.1 | 143.4 | 95.7 | 48.0 | 49.9 |
| 107.5° | 305.6 | 309.8 | 314.0 | 318.2 | 322.5 | 296.0 | 238.8 | 181.6 | 124.3 | 67.2 | 65.2 |
| 110° | 348.4 | 352.1 | 355.7 | 359.4 | 363.0 | 339.6 | 289.1 | 238.6 | 188.1 | 137.6 | 120.1 |



TEST NUMBER: P331636-935

CATALOG NUMBER: SA2XXRDIP-C290D925U935-4F0-1E-UDD-F

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 388.6 | 391.8 | 395.1 | 398.4 | 401.6 | 397.0 | 384.5 | 372.0 | 359.6 | 347.1 | 283.4 |
| 115° | 452.1 | 455.1 | 458.1 | 461.1 | 464.0 | 467.7 | 472.1 | 476.5 | 480.8 | 485.2 | 404.2 |
| 117.5° | 508.9 | 512.2 | 515.6 | 518.9 | 522.2 | 525.4 | 528.4 | 531.4 | 534.4 | 537.4 | 517.8 |
| 120° | 550.4 | 553.0 | 555.7 | 558.3 | 560.9 | 563.8 | 567.0 | 570.1 | 573.3 | 576.4 | 578.5 |
| 122.5° | 585.7 | 588.4 | 591.2 | 593.9 | 596.7 | 599.8 | 603.2 | 606.7 | 610.1 | 613.5 | 614.8 |
| 125° | 639.3 | 641.5 | 643.9 | 646.1 | 648.4 | 651.2 | 654.5 | 657.8 | 661.2 | 664.4 | 665.7 |
| 127.5° | 687.9 | 690.4 | 692.9 | 695.4 | 697.9 | 700.4 | 702.9 | 705.4 | 707.9 | 710.4 | 712.1 |
| 130° | 718.8 | 721.5 | 724.3 | 727.1 | 729.9 | 732.3 | 734.2 | 736.1 | 738.0 | 739.9 | 741.8 |
| 132.5° | 750.2 | 752.5 | 754.9 | 757.3 | 759.7 | 761.8 | 763.8 | 765.7 | 767.6 | 769.5 | 771.2 |
| 135° | 791.1 | 793.8 | 796.7 | 799.4 | 802.3 | 804.4 | 806.0 | 807.6 | 809.2 | 810.7 | 812.4 |
| 137.5° | 832.4 | 834.4 | 836.4 | 838.3 | 840.2 | 842.1 | 843.9 | 845.7 | 847.5 | 849.3 | 850.9 |
| 140° | 859.5 | 860.9 | 862.3 | 863.7 | 865.0 | 866.8 | 868.7 | 870.6 | 872.5 | 874.4 | 876.0 |
| 142.5° | 882.1 | 883.4 | 884.7 | 885.9 | 887.2 | 888.9 | 891.0 | 893.3 | 895.5 | 897.7 | 899.1 |
| 145° | 917.7 | 917.5 | 917.3 | 917.1 | 917.0 | 918.3 | 921.4 | 924.3 | 927.3 | 930.2 | 931.4 |
| 147.5° | 948.6 | 948.0 | 947.4 | 946.7 | 946.0 | 947.1 | 950.0 | 953.0 | 956.0 | 958.9 | 959.8 |
| 150° | 968.8 | 967.6 | 966.3 | 965.1 | 963.9 | 964.7 | 967.5 | 970.3 | 973.1 | 975.9 | 976.9 |
| 152.5° | 985.8 | 984.4 | 983.0 | 981.7 | 980.3 | 980.9 | 983.6 | 986.3 | 988.9 | 991.6 | 992.6 |
| 155° | 1010.5 | 1008.9 | 1007.3 | 1005.7 | 1004.2 | 1004.4 | 1006.5 | 1008.7 | 1010.7 | 1012.8 | 1013.8 |
| 157.5° | 1029.8 | 1028.5 | 1027.2 | 1025.8 | 1024.5 | 1024.6 | 1026.1 | 1027.5 | 1029.0 | 1030.4 | 1031.7 |
| 160° | 1041.1 | 1040.1 | 1039.1 | 1037.9 | 1036.9 | 1036.9 | 1037.9 | 1039.1 | 1040.1 | 1041.1 | 1042.2 |
| 162.5° | 1051.2 | 1050.2 | 1049.1 | 1048.0 | 1047.0 | 1046.9 | 1047.8 | 1048.7 | 1049.6 | 1050.6 | 1051.7 |
| 165° | 1064.7 | 1063.7 | 1062.6 | 1061.5 | 1060.5 | 1060.2 | 1060.8 | 1061.3 | 1061.9 | 1062.4 | 1063.6 |
| 167.5° | 1074.8 | 1073.8 | 1072.7 | 1071.6 | 1070.6 | 1070.3 | 1070.8 | 1071.3 | 1071.8 | 1072.3 | 1073.5 |
| 170° | 1080.5 | 1079.3 | 1078.3 | 1077.3 | 1076.2 | 1075.9 | 1076.2 | 1076.6 | 1076.9 | 1077.3 | 1078.5 |
| 172.5° | 1084.2 | 1083.1 | 1082.1 | 1081.1 | 1080.0 | 1079.7 | 1080.0 | 1080.4 | 1080.7 | 1081.1 | 1082.3 |
| 175° | 1089.1 | 1087.9 | 1086.7 | 1085.4 | 1084.2 | 1083.7 | 1084.1 | 1084.4 | 1084.8 | 1085.1 | 1086.4 |
| 177.5° | 1089.9 | 1088.9 | 1088.0 | 1086.9 | 1086.0 | 1085.5 | 1085.7 | 1085.8 | 1086.0 | 1086.1 | 1087.1 |
| 180° | 1086.8 | 1086.8 | 1086.8 | 1086.8 | 1086.8 | 1086.8 | 1086.8 | 1086.8 | 1086.8 | 1086.8 | 1086.8 |



TEST NUMBER: P331636-935

CATALOG NUMBER: SA2XXRDIP-C290D925U935-4F0-1E-UDD-F

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 432.2 | 432.2 | 432.2 | 432.2 | 432.2 | 432.2 | 432.2 | 432.2 |
| 2.5° | 430.2 | 430.8 | 431.5 | 431.8 | 431.7 | 431.5 | 431.4 | 431.3 |
| 5° | 426.7 | 427.5 | 428.3 | 428.5 | 428.3 | 428.0 | 427.7 | 427.5 |
| 7.5° | 419.8 | 420.1 | 420.3 | 420.2 | 419.7 | 419.2 | 418.8 | 418.4 |
| 10° | 412.9 | 412.7 | 412.4 | 412.0 | 411.5 | 411.0 | 410.4 | 409.9 |
| 12.5° | 405.0 | 404.5 | 404.1 | 403.4 | 402.5 | 401.7 | 400.8 | 399.9 |
| 15° | 390.2 | 388.5 | 386.8 | 385.6 | 384.8 | 383.8 | 383.0 | 382.1 |
| 17.5° | 373.4 | 371.4 | 369.5 | 367.8 | 366.3 | 364.8 | 363.3 | 361.8 |
| 20° | 361.8 | 359.6 | 357.4 | 355.3 | 353.4 | 351.5 | 349.7 | 347.8 |
| 22.5° | 349.0 | 346.1 | 343.4 | 341.2 | 339.8 | 338.4 | 336.9 | 335.5 |
| 25° | 327.7 | 324.1 | 320.6 | 318.1 | 316.8 | 315.5 | 314.2 | 312.9 |
| 27.5° | 307.4 | 303.2 | 299.1 | 296.0 | 293.9 | 291.9 | 289.8 | 287.7 |
| 30° | 293.1 | 288.7 | 284.2 | 280.9 | 278.4 | 276.1 | 273.8 | 271.5 |
| 32.5° | 278.7 | 273.6 | 268.5 | 264.9 | 262.8 | 260.5 | 258.3 | 256.1 |
| 35° | 256.2 | 250.7 | 245.2 | 241.5 | 239.6 | 237.7 | 235.8 | 233.9 |
| 37.5° | 234.3 | 228.3 | 222.2 | 218.1 | 215.9 | 213.7 | 211.5 | 209.3 |
| 40° | 219.6 | 213.4 | 207.2 | 203.0 | 200.8 | 198.5 | 196.2 | 194.0 |
| 42.5° | 204.7 | 198.4 | 192.0 | 187.8 | 185.5 | 183.4 | 181.2 | 179.0 |
| 45° | 183.2 | 177.0 | 170.9 | 166.8 | 164.7 | 162.6 | 160.5 | 158.4 |
| 47.5° | 162.2 | 156.1 | 150.0 | 145.9 | 144.0 | 142.2 | 140.3 | 138.4 |
| 50° | 148.8 | 142.8 | 136.7 | 132.9 | 131.0 | 129.2 | 127.3 | 125.5 |
| 52.5° | 136.0 | 130.3 | 124.5 | 120.7 | 119.1 | 117.4 | 115.6 | 114.0 |
| 55° | 116.7 | 111.5 | 106.2 | 102.8 | 101.2 | 99.5 | 97.9 | 96.3 |
| 57.5° | 99.1 | 94.3 | 89.5 | 86.4 | 85.1 | 83.7 | 82.3 | 80.8 |
| 60° | 87.0 | 82.6 | 78.1 | 75.2 | 73.8 | 72.4 | 71.0 | 69.7 |
| 62.5° | 76.5 | 72.2 | 68.0 | 65.4 | 64.6 | 63.8 | 62.9 | 62.1 |
| 65° | 62.2 | 59.2 | 56.2 | 54.6 | 54.3 | 54.1 | 53.8 | 53.6 |
| 67.5° | 50.2 | 48.8 | 47.4 | 46.7 | 46.3 | 46.1 | 45.8 | 45.5 |
| 70° | 43.7 | 42.8 | 41.9 | 41.3 | 40.9 | 40.6 | 40.2 | 39.9 |
| 72.5° | 38.0 | 37.2 | 36.5 | 36.1 | 35.8 | 35.6 | 35.4 | 35.2 |
| 75° | 30.0 | 29.4 | 28.8 | 28.5 | 28.4 | 28.3 | 28.2 | 28.2 |
| 77.5° | 22.7 | 22.4 | 22.0 | 21.9 | 21.7 | 21.5 | 21.4 | 21.3 |
| 80° | 18.1 | 17.7 | 17.4 | 17.2 | 17.2 | 17.2 | 17.2 | 17.2 |
| 82.5° | 13.7 | 13.4 | 13.3 | 13.2 | 13.2 | 13.2 | 13.2 | 13.2 |
| 85° | 7.4 | 7.4 | 7.4 | 7.4 | 7.4 | 7.4 | 7.4 | 7.4 |
| 87.5° | 5.9 | 5.9 | 6.0 | 6.2 | 6.2 | 6.3 | 6.4 | 6.5 |
| 90° | 17.5 | 18.3 | 19.2 | 19.8 | 20.1 | 20.5 | 20.9 | 21.3 |
| 92.5° | 19.1 | 19.6 | 20.1 | 20.4 | 20.6 | 20.8 | 21.0 | 21.3 |
| 95° | 32.4 | 33.3 | 34.2 | 34.5 | 34.4 | 34.2 | 34.0 | 33.8 |
| 97.5° | 42.4 | 43.1 | 43.8 | 44.3 | 44.5 | 44.7 | 44.9 | 45.1 |
| 100° | 47.6 | 49.0 | 50.5 | 51.3 | 51.7 | 52.0 | 52.3 | 52.7 |
| 102.5° | 49.7 | 51.6 | 53.4 | 54.5 | 55.0 | 55.4 | 56.0 | 56.5 |
| 105° | 51.8 | 53.7 | 55.6 | 57.0 | 57.7 | 58.4 | 59.1 | 59.8 |
| 107.5° | 63.2 | 61.3 | 59.3 | 58.7 | 59.4 | 60.1 | 60.8 | 61.5 |
| 110° | 102.6 | 85.2 | 67.7 | 59.3 | 60.0 | 60.7 | 61.4 | 62.2 |



TEST NUMBER: P331636-935

CATALOG NUMBER: SA2XXRDIP-C290D925U935-4F0-1E-UDD-F

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 219.6 | 155.8 | 92.1 | 60.5 | 61.0 | 61.6 | 62.2 | 62.8 |
| 115° | 323.4 | 242.5 | 161.5 | 114.8 | 102.2 | 89.6 | 77.1 | 64.5 |
| 117.5° | 498.3 | 478.7 | 459.1 | 428.6 | 387.3 | 345.9 | 304.6 | 263.3 |
| 120° | 580.6 | 582.7 | 584.8 | 574.0 | 550.4 | 526.8 | 503.3 | 479.7 |
| 122.5° | 616.0 | 617.3 | 618.5 | 616.9 | 612.3 | 607.7 | 603.1 | 598.6 |
| 125° | 666.9 | 668.1 | 669.3 | 670.2 | 670.7 | 671.2 | 671.8 | 672.4 |
| 127.5° | 713.9 | 715.7 | 717.6 | 718.4 | 718.6 | 718.7 | 718.8 | 718.8 |
| 130° | 743.8 | 745.7 | 747.6 | 748.6 | 748.4 | 748.1 | 748.0 | 747.8 |
| 132.5° | 772.8 | 774.5 | 776.1 | 776.8 | 776.6 | 776.4 | 776.3 | 776.1 |
| 135° | 814.2 | 816.0 | 817.7 | 818.4 | 818.0 | 817.7 | 817.3 | 817.0 |
| 137.5° | 852.6 | 854.4 | 856.1 | 856.7 | 856.1 | 855.5 | 854.9 | 854.3 |
| 140° | 877.5 | 879.2 | 880.7 | 881.1 | 880.2 | 879.3 | 878.5 | 877.5 |
| 142.5° | 900.5 | 902.0 | 903.4 | 903.7 | 902.8 | 902.0 | 901.1 | 900.2 |
| 145° | 932.7 | 933.9 | 935.1 | 935.3 | 934.4 | 933.6 | 932.7 | 931.9 |
| 147.5° | 960.7 | 961.6 | 962.5 | 962.6 | 961.8 | 961.1 | 960.4 | 959.7 |
| 150° | 977.9 | 979.0 | 980.1 | 980.2 | 979.3 | 978.4 | 977.5 | 976.6 |
| 152.5° | 993.7 | 994.7 | 995.7 | 995.7 | 994.5 | 993.4 | 992.3 | 991.1 |
| 155° | 1014.9 | 1016.0 | 1017.0 | 1016.8 | 1015.5 | 1014.0 | 1012.6 | 1011.2 |
| 157.5° | 1032.8 | 1034.0 | 1035.2 | 1035.1 | 1033.7 | 1032.3 | 1031.0 | 1029.7 |
| 160° | 1043.2 | 1044.3 | 1045.3 | 1045.3 | 1044.0 | 1042.8 | 1041.6 | 1040.3 |
| 162.5° | 1052.9 | 1054.1 | 1055.3 | 1055.2 | 1053.7 | 1052.1 | 1050.7 | 1049.1 |
| 165° | 1064.8 | 1066.0 | 1067.2 | 1067.2 | 1066.0 | 1064.8 | 1063.6 | 1062.4 |
| 167.5° | 1074.7 | 1075.9 | 1077.2 | 1076.9 | 1075.4 | 1073.8 | 1072.3 | 1070.7 |
| 170° | 1079.8 | 1081.0 | 1082.2 | 1082.0 | 1080.5 | 1078.8 | 1077.3 | 1075.7 |
| 172.5° | 1083.5 | 1084.8 | 1086.0 | 1085.8 | 1084.2 | 1082.6 | 1081.1 | 1079.5 |
| 175° | 1087.6 | 1088.8 | 1090.0 | 1089.8 | 1088.0 | 1086.3 | 1084.5 | 1082.8 |
| 177.5° | 1088.0 | 1089.1 | 1090.0 | 1089.9 | 1088.6 | 1087.4 | 1086.1 | 1084.9 |
| 180° | 1086.8 | 1086.8 | 1086.8 | 1086.8 | 1086.8 | 1086.8 | 1086.8 | 1086.8 |

(END OF REPORT)