

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: P331270-940

Luminaire Tested: **SA2XXDIP-C290D925U940-4F0-1E-UDD-D**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P331270-940
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: SA2XXDIP-C290D925U940-4F0-1E-UDD-D
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 290 LUMENS PER FOOT, DROP SATIN WHITE DIFFUSER
UPLIGHT 925 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4367.4 lumens
Efficiency: N/A
Efficacy: 117.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.08')
CIE Type: Semi-Indirect

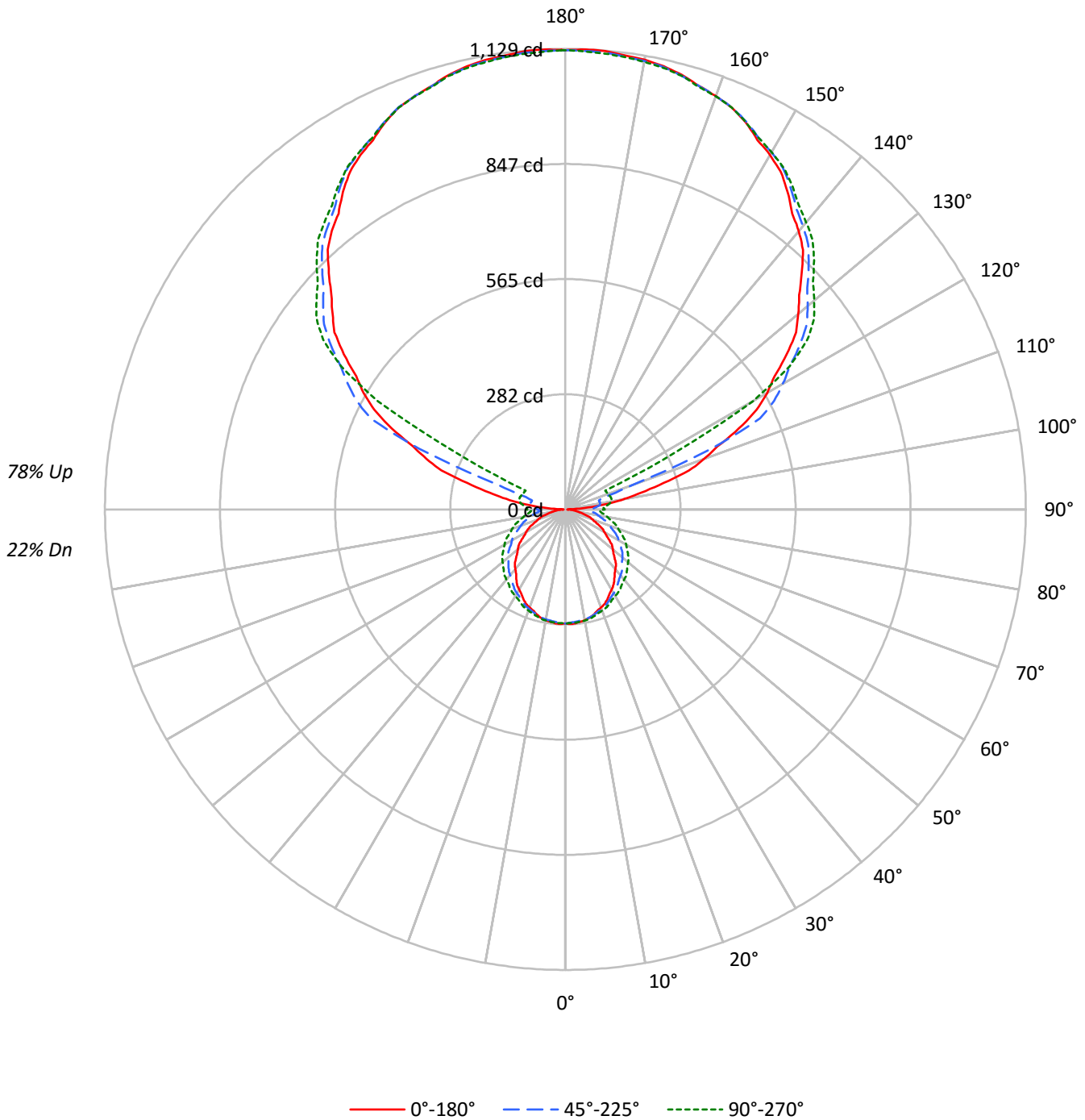
Input Watts (W): 37.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P331270-940

CATALOG NUMBER: SA2XXDIP-C290D925U940-4F0-1E-UDD-D

Luminous Intensity Polar Plot





TEST NUMBER: P331270-940

CATALOG NUMBER: SA2XXDIP-C290D925U940-4F0-1E-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 | 100 | 100 | 100 | 100 | 89 | 89 | 89 | 89 | 68 | 68 | 68 | 48 | 48 | 48 | 30 | 30 | 30 | 22 | | | | |
| 1 | 91 | 86 | 82 | 79 | 80 | 77 | 73 | 70 | 58 | 56 | 54 | 41 | 40 | 39 | 26 | 25 | 24 | 17 | | | | |
| 2 | 82 | 75 | 69 | 64 | 73 | 66 | 61 | 57 | 50 | 47 | 44 | 36 | 34 | 32 | 22 | 21 | 20 | 14 | | | | |
| 3 | 75 | 66 | 58 | 53 | 66 | 58 | 52 | 47 | 44 | 40 | 37 | 31 | 29 | 26 | 19 | 18 | 17 | 11 | | | | |
| 4 | 68 | 58 | 50 | 44 | 60 | 51 | 45 | 40 | 39 | 34 | 31 | 28 | 25 | 22 | 17 | 15 | 14 | 9 | | | | |
| 5 | 62 | 51 | 43 | 37 | 55 | 45 | 39 | 34 | 35 | 30 | 26 | 25 | 22 | 19 | 15 | 14 | 12 | 8 | | | | |
| 6 | 57 | 46 | 38 | 32 | 50 | 41 | 34 | 29 | 31 | 26 | 23 | 22 | 19 | 17 | 14 | 12 | 10 | 7 | | | | |
| 7 | 53 | 41 | 33 | 28 | 47 | 37 | 30 | 25 | 28 | 23 | 20 | 20 | 17 | 14 | 13 | 11 | 9 | 6 | | | | |
| 8 | 49 | 37 | 29 | 24 | 43 | 33 | 26 | 22 | 25 | 21 | 17 | 18 | 15 | 13 | 11 | 10 | 8 | 6 | | | | |
| 9 | 45 | 34 | 26 | 21 | 40 | 30 | 24 | 19 | 23 | 19 | 15 | 17 | 14 | 11 | 11 | 9 | 7 | 5 | | | | |
| 10 | 42 | 31 | 24 | 19 | 37 | 27 | 21 | 17 | 21 | 17 | 14 | 15 | 12 | 10 | 10 | 8 | 7 | 4 | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 4514 | 4514 | 4514 |
| 5° | 4536 | 4345 | 4328 |
| 10° | 4507 | 4215 | 4169 |
| 15° | 4443 | 4079 | 4001 |
| 20° | 4366 | 3935 | 3839 |
| 25° | 4289 | 3793 | 3693 |
| 30° | 4180 | 3650 | 3544 |
| 35° | 4070 | 3510 | 3442 |
| 40° | 3952 | 3391 | 3338 |
| 45° | 3841 | 3286 | 3250 |
| 50° | 3723 | 3189 | 3162 |
| 55° | 3597 | 3086 | 3074 |
| 60° | 3447 | 2979 | 2980 |
| 65° | 3288 | 2854 | 2867 |
| 70° | 3108 | 2717 | 2746 |
| 75° | 2883 | 2585 | 2636 |
| 80° | 2528 | 2450 | 2524 |
| 85° | 2185 | 2333 | 2436 |



TEST NUMBER: P331270-940

CATALOG NUMBER: SA2XXDIP-C290D925U940-4F0-1E-UDD-D

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 26.5 | 0.6 |
| 10°-20° | 75.9 | 1.7 |
| 20°-30° | 115.1 | 2.6 |
| 30°-40° | 140.2 | 3.2 |
| 40°-50° | 150.8 | 3.5 |
| 50°-60° | 146.5 | 3.4 |
| 60°-70° | 127.9 | 2.9 |
| 70°-80° | 98.4 | 2.3 |
| 80°-90° | 68.8 | 1.6 |
| 90°-100° | 83.1 | 1.9 |
| 100°-110° | 170.9 | 3.9 |
| 110°-120° | 390.0 | 8.9 |
| 120°-130° | 619.7 | 14.2 |
| 130°-140° | 651.2 | 14.9 |
| 140°-150° | 601.4 | 13.8 |
| 150°-160° | 482.8 | 11.1 |
| 160°-170° | 311.1 | 7.1 |
| 170°-180° | 107.1 | 2.5 |
| 0°-30° | 217.5 | 5.0 |
| 0°-40° | 357.7 | 8.2 |
| 0°-60° | 654.9 | 15.0 |
| 0°-90° | 950.1 | 21.8 |
| 90°-120° | 644.0 | 14.7 |
| 90°-150° | 2516.3 | 57.6 |
| 90°-180° | 3417.0 | 78.2 |
| 0°-180° | 4367.4 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 280 | 280 | 280 | 280 | 280 | |
| 5° | 280 | 279 | 277 | 279 | 279 | 27 |
| 15° | 267 | 268 | 268 | 272 | 271 | 75 |
| 25° | 243 | 246 | 250 | 254 | 256 | 112 |
| 35° | 210 | 216 | 224 | 233 | 236 | 131 |
| 45° | 172 | 183 | 197 | 209 | 214 | 133 |
| 55° | 132 | 147 | 167 | 181 | 187 | 118 |
| 65° | 90 | 110 | 134 | 150 | 156 | 89 |
| 75° | 50 | 73 | 98 | 115 | 121 | 53 |
| 85° | 15 | 40 | 66 | 82 | 88 | 16 |
| 90° | 5 | 37 | 70 | 89 | 96 | 5 |
| 95° | 56 | 50 | 78 | 97 | 102 | 67 |
| 105° | 250 | 273 | 84 | 107 | 115 | 267 |
| 115° | 470 | 489 | 527 | 179 | 108 | 462 |
| 125° | 663 | 674 | 702 | 718 | 725 | 591 |
| 135° | 820 | 833 | 844 | 860 | 862 | 633 |
| 145° | 950 | 950 | 963 | 971 | 970 | 594 |
| 155° | 1046 | 1040 | 1049 | 1053 | 1047 | 482 |
| 165° | 1103 | 1098 | 1100 | 1105 | 1100 | 311 |
| 175° | 1128 | 1123 | 1124 | 1129 | 1121 | 107 |
| 180° | 1126 | 1126 | 1126 | 1126 | 1126 | |



TEST NUMBER: P331270-940

CATALOG NUMBER: SA2XXDIP-C290D925U940-4F0-1E-UDD-D

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 279.6 | 279.6 | 279.6 | 279.6 | 279.6 | 279.6 | 279.6 | 279.6 | 279.6 | 279.6 | 279.6 |
| 2.5° | 281.2 | 280.9 | 280.7 | 280.4 | 280.3 | 279.9 | 279.4 | 278.9 | 278.4 | 277.9 | 278.2 |
| 5° | 280.4 | 280.1 | 279.8 | 279.6 | 279.2 | 278.8 | 278.3 | 277.8 | 277.2 | 276.7 | 277.2 |
| 7.5° | 277.8 | 277.6 | 277.4 | 277.2 | 277.1 | 276.8 | 276.3 | 276.0 | 275.5 | 275.1 | 275.8 |
| 10° | 275.9 | 275.7 | 275.5 | 275.4 | 275.2 | 274.9 | 274.6 | 274.4 | 274.1 | 273.8 | 274.6 |
| 12.5° | 272.6 | 272.7 | 272.7 | 272.8 | 272.8 | 272.7 | 272.5 | 272.3 | 272.1 | 271.9 | 272.6 |
| 15° | 267.3 | 267.5 | 267.7 | 267.9 | 268.0 | 268.1 | 268.1 | 268.1 | 268.1 | 268.1 | 268.9 |
| 17.5° | 260.6 | 260.9 | 261.3 | 261.7 | 262.1 | 262.4 | 262.7 | 263.0 | 263.2 | 263.6 | 264.4 |
| 20° | 256.0 | 256.5 | 256.9 | 257.3 | 257.8 | 258.2 | 258.6 | 259.0 | 259.3 | 259.7 | 260.6 |
| 22.5° | 251.2 | 251.6 | 252.2 | 252.7 | 253.2 | 253.8 | 254.2 | 254.8 | 255.3 | 255.7 | 256.7 |
| 25° | 243.1 | 243.7 | 244.3 | 245.0 | 245.6 | 246.3 | 247.1 | 247.9 | 248.7 | 249.5 | 250.6 |
| 27.5° | 233.4 | 234.3 | 235.4 | 236.4 | 237.5 | 238.4 | 239.3 | 240.3 | 241.3 | 242.3 | 243.6 |
| 30° | 226.9 | 228.0 | 229.2 | 230.3 | 231.5 | 232.7 | 233.9 | 235.1 | 236.2 | 237.4 | 238.8 |
| 32.5° | 219.7 | 221.1 | 222.3 | 223.6 | 225.0 | 226.3 | 227.7 | 229.1 | 230.5 | 231.8 | 233.5 |
| 35° | 209.5 | 211.0 | 212.5 | 214.0 | 215.5 | 217.1 | 218.9 | 220.6 | 222.3 | 224.0 | 226.0 |
| 37.5° | 198.2 | 200.0 | 201.8 | 203.6 | 205.3 | 207.3 | 209.6 | 211.7 | 213.9 | 216.2 | 218.4 |
| 40° | 190.8 | 192.8 | 194.7 | 196.7 | 198.7 | 200.9 | 203.3 | 205.8 | 208.2 | 210.6 | 212.9 |
| 42.5° | 183.7 | 185.7 | 187.6 | 189.6 | 191.6 | 193.9 | 196.8 | 199.6 | 202.3 | 205.1 | 207.7 |
| 45° | 171.7 | 174.2 | 176.6 | 179.1 | 181.5 | 184.2 | 187.4 | 190.6 | 193.7 | 196.9 | 199.7 |
| 47.5° | 160.0 | 162.6 | 165.3 | 167.9 | 170.6 | 173.8 | 177.5 | 181.1 | 184.9 | 188.5 | 191.5 |
| 50° | 151.9 | 154.7 | 157.5 | 160.2 | 163.1 | 166.5 | 170.6 | 174.6 | 178.6 | 182.7 | 185.7 |
| 52.5° | 144.1 | 147.0 | 150.0 | 152.9 | 155.9 | 159.4 | 163.7 | 168.0 | 172.3 | 176.6 | 179.7 |
| 55° | 131.6 | 134.9 | 138.1 | 141.3 | 144.6 | 148.6 | 153.3 | 157.9 | 162.6 | 167.3 | 170.6 |
| 57.5° | 119.3 | 123.0 | 126.6 | 130.3 | 133.9 | 138.1 | 142.9 | 147.7 | 152.5 | 157.3 | 160.8 |
| 60° | 110.6 | 114.5 | 118.3 | 122.2 | 126.1 | 130.5 | 135.7 | 140.8 | 146.0 | 151.1 | 154.5 |
| 62.5° | 102.8 | 106.8 | 110.8 | 114.9 | 118.9 | 123.4 | 128.6 | 133.7 | 138.8 | 144.0 | 147.6 |
| 65° | 89.9 | 94.3 | 98.7 | 103.2 | 107.5 | 112.4 | 117.7 | 123.1 | 128.4 | 133.7 | 137.4 |
| 67.5° | 78.1 | 82.8 | 87.3 | 91.9 | 96.6 | 101.6 | 107.0 | 112.4 | 117.9 | 123.3 | 127.1 |
| 70° | 69.6 | 74.4 | 79.0 | 83.7 | 88.4 | 93.5 | 99.1 | 104.7 | 110.3 | 115.8 | 119.8 |
| 72.5° | 61.9 | 66.7 | 71.5 | 76.3 | 81.2 | 86.4 | 92.1 | 97.7 | 103.4 | 109.1 | 112.9 |
| 75° | 49.8 | 54.8 | 59.9 | 64.9 | 70.0 | 75.3 | 81.1 | 86.9 | 92.6 | 98.4 | 102.3 |
| 77.5° | 38.2 | 43.4 | 48.7 | 53.9 | 59.3 | 64.8 | 70.7 | 76.5 | 82.4 | 88.2 | 92.1 |
| 80° | 30.4 | 35.8 | 41.4 | 46.8 | 52.3 | 58.1 | 63.8 | 69.7 | 75.5 | 81.4 | 85.2 |
| 82.5° | 23.9 | 29.3 | 34.8 | 40.1 | 45.6 | 51.3 | 57.2 | 63.1 | 69.0 | 74.9 | 78.7 |
| 85° | 14.6 | 20.2 | 25.8 | 31.3 | 36.9 | 42.5 | 48.3 | 54.1 | 59.8 | 65.6 | 69.4 |
| 87.5° | 8.1 | 13.8 | 19.6 | 25.4 | 31.1 | 37.1 | 43.1 | 49.1 | 55.2 | 61.3 | 65.1 |
| 90° | 4.9 | 12.0 | 19.3 | 26.5 | 33.7 | 40.9 | 48.2 | 55.4 | 62.5 | 69.7 | 74.3 |
| 92.5° | 20.2 | 24.9 | 29.5 | 34.2 | 38.9 | 44.4 | 50.6 | 56.9 | 63.2 | 69.5 | 73.5 |
| 95° | 56.2 | 54.4 | 52.7 | 50.9 | 49.2 | 51.6 | 58.3 | 65.0 | 71.7 | 78.4 | 82.7 |
| 97.5° | 107.9 | 94.8 | 81.8 | 68.7 | 55.6 | 53.1 | 61.3 | 69.4 | 77.5 | 85.6 | 89.7 |
| 100° | 147.0 | 125.6 | 104.1 | 82.6 | 61.2 | 54.5 | 62.6 | 70.7 | 78.8 | 86.9 | 91.7 |
| 102.5° | 189.7 | 187.4 | 185.2 | 183.1 | 180.8 | 169.3 | 148.5 | 127.6 | 106.8 | 86.0 | 91.1 |
| 105° | 249.6 | 257.6 | 265.6 | 273.8 | 281.8 | 263.4 | 218.7 | 174.0 | 129.2 | 84.5 | 89.6 |
| 107.5° | 318.4 | 324.9 | 331.4 | 337.8 | 344.3 | 320.1 | 265.4 | 210.6 | 155.9 | 101.0 | 102.1 |
| 110° | 362.4 | 368.0 | 373.6 | 379.2 | 384.8 | 363.6 | 315.8 | 267.9 | 220.0 | 172.1 | 156.9 |



TEST NUMBER: P331270-940

CATALOG NUMBER: SA2XXDIP-C290D925U940-4F0-1E-UDD-D

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 404.1 | 408.9 | 413.8 | 418.7 | 423.7 | 421.7 | 413.0 | 404.2 | 395.5 | 386.7 | 323.6 |
| 115° | 469.9 | 473.9 | 478.0 | 482.1 | 486.2 | 492.5 | 501.1 | 509.6 | 518.2 | 526.8 | 445.7 |
| 117.5° | 528.2 | 532.4 | 536.5 | 540.6 | 544.7 | 550.1 | 557.0 | 563.8 | 570.7 | 577.6 | 559.9 |
| 120° | 571.3 | 574.4 | 577.5 | 580.5 | 583.6 | 588.5 | 595.4 | 602.3 | 609.1 | 616.0 | 620.7 |
| 122.5° | 607.8 | 610.8 | 613.8 | 616.8 | 619.8 | 624.7 | 631.7 | 638.6 | 645.5 | 652.5 | 656.2 |
| 125° | 662.9 | 665.3 | 667.6 | 669.9 | 672.3 | 676.6 | 683.0 | 689.3 | 695.6 | 702.0 | 705.6 |
| 127.5° | 713.3 | 715.8 | 718.3 | 720.8 | 723.3 | 727.0 | 731.9 | 736.8 | 741.7 | 746.5 | 750.6 |
| 130° | 745.2 | 748.0 | 750.8 | 753.6 | 756.3 | 759.7 | 763.6 | 767.5 | 771.4 | 775.3 | 779.4 |
| 132.5° | 777.8 | 780.2 | 782.5 | 784.9 | 787.2 | 790.1 | 793.6 | 797.0 | 800.5 | 804.0 | 807.7 |
| 135° | 819.7 | 822.6 | 825.5 | 828.4 | 831.3 | 834.0 | 836.5 | 839.0 | 841.6 | 844.1 | 847.8 |
| 137.5° | 862.6 | 864.5 | 866.6 | 868.5 | 870.6 | 872.7 | 874.9 | 877.2 | 879.4 | 881.6 | 885.1 |
| 140° | 890.6 | 891.9 | 893.2 | 894.7 | 896.0 | 897.8 | 899.9 | 902.1 | 904.3 | 906.4 | 909.5 |
| 142.5° | 914.0 | 915.2 | 916.4 | 917.7 | 918.8 | 920.6 | 922.9 | 925.2 | 927.6 | 929.9 | 932.6 |
| 145° | 950.4 | 950.2 | 950.0 | 949.9 | 949.7 | 951.1 | 954.2 | 957.3 | 960.4 | 963.4 | 965.3 |
| 147.5° | 982.5 | 981.8 | 981.1 | 980.4 | 979.7 | 980.9 | 983.9 | 987.0 | 990.1 | 993.1 | 994.1 |
| 150° | 1003.4 | 1002.1 | 1000.8 | 999.5 | 998.3 | 999.1 | 1002.0 | 1004.9 | 1007.8 | 1010.7 | 1011.7 |
| 152.5° | 1020.9 | 1019.5 | 1018.1 | 1016.7 | 1015.3 | 1015.9 | 1018.7 | 1021.5 | 1024.2 | 1027.0 | 1028.1 |
| 155° | 1046.5 | 1044.9 | 1043.2 | 1041.6 | 1040.0 | 1040.3 | 1042.4 | 1044.6 | 1046.8 | 1048.9 | 1050.0 |
| 157.5° | 1066.5 | 1065.1 | 1063.8 | 1062.4 | 1061.0 | 1061.1 | 1062.7 | 1064.2 | 1065.7 | 1067.2 | 1068.4 |
| 160° | 1078.3 | 1077.2 | 1076.1 | 1075.0 | 1073.9 | 1073.9 | 1075.0 | 1076.1 | 1077.2 | 1078.3 | 1079.3 |
| 162.5° | 1088.7 | 1087.6 | 1086.5 | 1085.4 | 1084.3 | 1084.2 | 1085.2 | 1086.1 | 1087.1 | 1088.1 | 1089.2 |
| 165° | 1102.7 | 1101.6 | 1100.5 | 1099.4 | 1098.3 | 1098.1 | 1098.6 | 1099.1 | 1099.7 | 1100.3 | 1101.5 |
| 167.5° | 1113.1 | 1112.1 | 1111.0 | 1109.8 | 1108.8 | 1108.5 | 1109.0 | 1109.5 | 1110.0 | 1110.5 | 1111.8 |
| 170° | 1119.0 | 1117.8 | 1116.8 | 1115.7 | 1114.6 | 1114.3 | 1114.6 | 1115.0 | 1115.4 | 1115.7 | 1117.0 |
| 172.5° | 1122.8 | 1121.8 | 1120.7 | 1119.6 | 1118.6 | 1118.2 | 1118.6 | 1118.9 | 1119.3 | 1119.6 | 1120.9 |
| 175° | 1127.9 | 1126.7 | 1125.4 | 1124.1 | 1122.8 | 1122.4 | 1122.8 | 1123.1 | 1123.5 | 1123.8 | 1125.2 |
| 177.5° | 1128.7 | 1127.7 | 1126.8 | 1125.7 | 1124.7 | 1124.3 | 1124.4 | 1124.5 | 1124.7 | 1124.8 | 1125.9 |
| 180° | 1125.5 | 1125.5 | 1125.5 | 1125.5 | 1125.5 | 1125.5 | 1125.5 | 1125.5 | 1125.5 | 1125.5 | 1125.5 |



TEST NUMBER: P331270-940

CATALOG NUMBER: SA2XXDIP-C290D925U940-4F0-1E-UDD-D

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 279.6 | 279.6 | 279.6 | 279.6 | 279.6 | 279.6 | 279.6 | 279.6 |
| 2.5° | 278.6 | 278.9 | 279.3 | 279.5 | 279.3 | 279.1 | 279.0 | 278.8 |
| 5° | 277.8 | 278.3 | 278.8 | 279.0 | 278.9 | 278.8 | 278.7 | 278.7 |
| 7.5° | 276.4 | 277.1 | 277.8 | 278.0 | 277.9 | 277.9 | 277.8 | 277.7 |
| 10° | 275.3 | 276.0 | 276.7 | 277.1 | 277.0 | 276.9 | 276.8 | 276.7 |
| 12.5° | 273.3 | 274.0 | 274.7 | 275.1 | 275.0 | 274.9 | 274.8 | 274.7 |
| 15° | 269.7 | 270.6 | 271.4 | 271.8 | 271.7 | 271.6 | 271.5 | 271.4 |
| 17.5° | 265.3 | 266.1 | 266.9 | 267.3 | 267.3 | 267.3 | 267.3 | 267.3 |
| 20° | 261.6 | 262.6 | 263.6 | 264.1 | 264.1 | 264.1 | 264.1 | 264.1 |
| 22.5° | 257.8 | 258.8 | 259.8 | 260.3 | 260.5 | 260.6 | 260.7 | 260.9 |
| 25° | 251.7 | 252.8 | 253.9 | 254.5 | 254.8 | 255.0 | 255.3 | 255.6 |
| 27.5° | 245.0 | 246.4 | 247.7 | 248.5 | 248.7 | 248.9 | 249.1 | 249.3 |
| 30° | 240.2 | 241.7 | 243.2 | 244.0 | 244.2 | 244.5 | 244.8 | 245.0 |
| 32.5° | 235.1 | 236.8 | 238.5 | 239.6 | 240.0 | 240.6 | 241.0 | 241.5 |
| 35° | 228.0 | 230.0 | 231.9 | 233.3 | 233.9 | 234.5 | 235.1 | 235.8 |
| 37.5° | 220.5 | 222.7 | 225.0 | 226.4 | 227.0 | 227.7 | 228.4 | 229.0 |
| 40° | 215.3 | 217.7 | 220.0 | 221.6 | 222.4 | 223.2 | 224.0 | 224.8 |
| 42.5° | 210.3 | 212.8 | 215.3 | 217.0 | 217.8 | 218.6 | 219.5 | 220.3 |
| 45° | 202.4 | 205.3 | 208.0 | 209.9 | 210.8 | 211.7 | 212.6 | 213.5 |
| 47.5° | 194.4 | 197.2 | 200.2 | 202.2 | 203.1 | 204.1 | 205.1 | 206.1 |
| 50° | 188.8 | 191.9 | 194.9 | 197.0 | 198.0 | 198.9 | 199.9 | 200.9 |
| 52.5° | 182.8 | 185.9 | 189.0 | 191.2 | 192.3 | 193.3 | 194.4 | 195.4 |
| 55° | 173.8 | 177.0 | 180.3 | 182.4 | 183.6 | 184.9 | 186.0 | 187.2 |
| 57.5° | 164.3 | 167.7 | 171.2 | 173.5 | 174.8 | 175.9 | 177.1 | 178.3 |
| 60° | 157.9 | 161.4 | 164.8 | 167.1 | 168.4 | 169.6 | 170.9 | 172.2 |
| 62.5° | 151.2 | 154.9 | 158.5 | 161.0 | 162.1 | 163.3 | 164.5 | 165.7 |
| 65° | 141.1 | 144.7 | 148.5 | 150.9 | 152.0 | 153.2 | 154.4 | 155.5 |
| 67.5° | 130.7 | 134.5 | 138.2 | 140.7 | 141.9 | 143.1 | 144.4 | 145.6 |
| 70° | 123.6 | 127.4 | 131.3 | 133.8 | 134.9 | 136.0 | 137.1 | 138.1 |
| 72.5° | 116.6 | 120.5 | 124.2 | 126.8 | 128.0 | 129.4 | 130.7 | 132.0 |
| 75° | 106.2 | 110.0 | 114.0 | 116.5 | 117.6 | 118.8 | 119.9 | 121.1 |
| 77.5° | 95.9 | 99.8 | 103.6 | 106.2 | 107.5 | 108.7 | 109.9 | 111.2 |
| 80° | 89.0 | 92.7 | 96.6 | 99.1 | 100.3 | 101.6 | 102.8 | 104.1 |
| 82.5° | 82.5 | 86.3 | 90.1 | 92.6 | 93.7 | 95.0 | 96.1 | 97.3 |
| 85° | 73.2 | 77.0 | 80.8 | 83.3 | 84.5 | 85.8 | 87.0 | 88.3 |
| 87.5° | 68.9 | 72.9 | 76.7 | 79.2 | 80.4 | 81.7 | 82.9 | 84.1 |
| 90° | 78.7 | 83.3 | 87.7 | 90.8 | 92.2 | 93.6 | 95.1 | 96.5 |
| 92.5° | 77.5 | 81.4 | 85.4 | 88.1 | 89.3 | 90.7 | 92.0 | 93.3 |
| 95° | 87.0 | 91.3 | 95.7 | 98.3 | 99.2 | 100.0 | 100.9 | 101.8 |
| 97.5° | 93.7 | 97.8 | 101.8 | 104.5 | 105.8 | 107.1 | 108.3 | 109.6 |
| 100° | 96.5 | 101.3 | 106.0 | 109.1 | 110.5 | 111.8 | 113.2 | 114.5 |
| 102.5° | 96.2 | 101.4 | 106.6 | 109.9 | 111.4 | 112.8 | 114.3 | 115.8 |
| 105° | 94.8 | 100.0 | 105.0 | 108.5 | 110.2 | 111.9 | 113.7 | 115.4 |
| 107.5° | 103.1 | 104.1 | 105.0 | 106.4 | 108.2 | 109.9 | 111.6 | 113.2 |
| 110° | 141.7 | 126.4 | 111.2 | 104.5 | 106.2 | 107.9 | 109.6 | 111.3 |



TEST NUMBER: P331270-940

CATALOG NUMBER: SA2XXDIP-C290D925U940-4F0-1E-UDD-D

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 260.5 | 197.3 | 134.2 | 103.4 | 105.0 | 106.6 | 108.2 | 109.7 |
| 115° | 364.6 | 283.5 | 202.4 | 155.9 | 143.8 | 131.8 | 119.8 | 107.7 |
| 117.5° | 542.3 | 524.7 | 507.1 | 477.3 | 435.5 | 393.6 | 351.7 | 309.8 |
| 120° | 625.4 | 630.1 | 634.7 | 625.4 | 601.9 | 578.5 | 555.1 | 531.6 |
| 122.5° | 660.0 | 663.7 | 667.5 | 667.4 | 663.5 | 659.6 | 655.8 | 651.8 |
| 125° | 709.4 | 713.0 | 716.8 | 719.3 | 720.6 | 721.9 | 723.3 | 724.7 |
| 127.5° | 754.7 | 758.8 | 762.9 | 765.4 | 766.2 | 767.2 | 768.1 | 769.0 |
| 130° | 783.5 | 787.7 | 791.8 | 794.2 | 794.8 | 795.3 | 795.9 | 796.4 |
| 132.5° | 811.5 | 815.3 | 819.1 | 821.3 | 821.8 | 822.3 | 822.9 | 823.4 |
| 135° | 851.5 | 855.2 | 858.9 | 860.9 | 861.3 | 861.7 | 862.0 | 862.4 |
| 137.5° | 888.5 | 892.0 | 895.4 | 897.1 | 897.1 | 897.1 | 897.1 | 897.1 |
| 140° | 912.6 | 915.6 | 918.7 | 920.1 | 919.7 | 919.4 | 918.9 | 918.6 |
| 142.5° | 935.1 | 937.8 | 940.4 | 941.6 | 941.1 | 940.7 | 940.2 | 939.8 |
| 145° | 967.1 | 968.8 | 970.6 | 971.3 | 970.9 | 970.4 | 970.0 | 969.6 |
| 147.5° | 995.1 | 996.1 | 997.1 | 997.4 | 996.8 | 996.3 | 995.7 | 995.1 |
| 150° | 1012.8 | 1014.0 | 1015.0 | 1015.1 | 1014.2 | 1013.3 | 1012.4 | 1011.5 |
| 152.5° | 1029.1 | 1030.2 | 1031.3 | 1031.3 | 1030.0 | 1028.9 | 1027.7 | 1026.4 |
| 155° | 1051.1 | 1052.2 | 1053.3 | 1053.1 | 1051.7 | 1050.2 | 1048.7 | 1047.3 |
| 157.5° | 1069.6 | 1070.9 | 1072.1 | 1072.0 | 1070.6 | 1069.2 | 1067.7 | 1066.4 |
| 160° | 1080.4 | 1081.6 | 1082.6 | 1082.5 | 1081.2 | 1080.0 | 1078.7 | 1077.5 |
| 162.5° | 1090.5 | 1091.7 | 1093.0 | 1092.8 | 1091.3 | 1089.7 | 1088.2 | 1086.5 |
| 165° | 1102.8 | 1104.0 | 1105.3 | 1105.3 | 1104.0 | 1102.8 | 1101.5 | 1100.3 |
| 167.5° | 1113.0 | 1114.3 | 1115.6 | 1115.4 | 1113.7 | 1112.1 | 1110.5 | 1108.8 |
| 170° | 1118.3 | 1119.5 | 1120.8 | 1120.6 | 1119.0 | 1117.3 | 1115.7 | 1114.1 |
| 172.5° | 1122.1 | 1123.5 | 1124.7 | 1124.5 | 1122.8 | 1121.2 | 1119.6 | 1118.0 |
| 175° | 1126.4 | 1127.7 | 1128.9 | 1128.6 | 1126.9 | 1125.1 | 1123.2 | 1121.4 |
| 177.5° | 1126.9 | 1127.9 | 1128.9 | 1128.7 | 1127.5 | 1126.1 | 1124.8 | 1123.6 |
| 180° | 1125.5 | 1125.5 | 1125.5 | 1125.5 | 1125.5 | 1125.5 | 1125.5 | 1125.5 |

(END OF REPORT)