

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: P332111-935

Luminaire Tested: **S123DIW-S340D1320U935-4F0-1E-UDD-D1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332111-935
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-9,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S123DIW-S340D1320U935-4F0-1E-UDD-D1
Description: DEFINE 3 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 340 LUMENS PER FOOT, DROP SATIN WHITE DIFFUSER
UPLIGHT 1320 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5180.4 lumens
Efficiency: N/A
Efficacy: 111.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.08')
CIE Type: Semi-Indirect

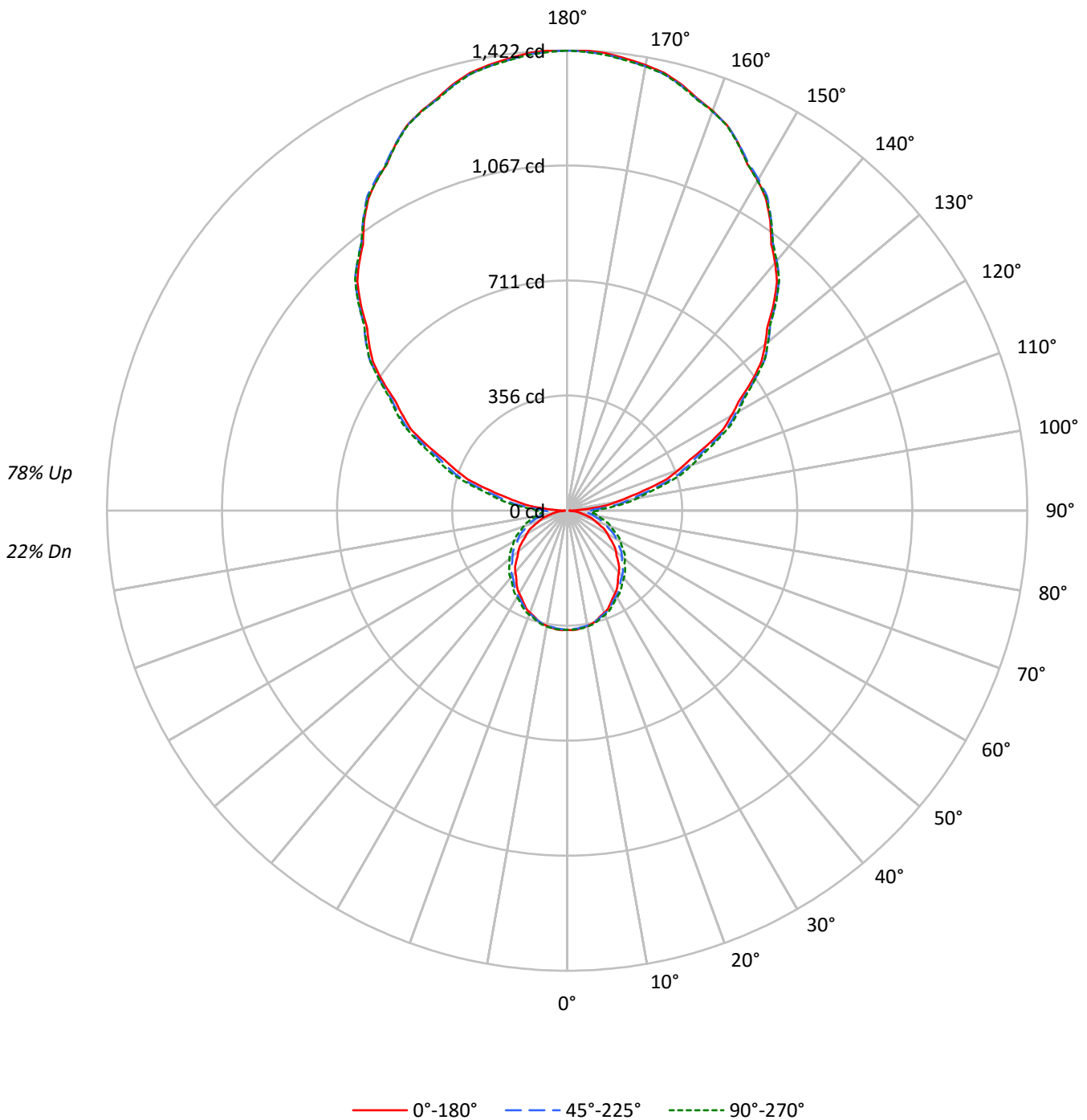
Input Watts (W): 46.6
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P332111-935

CATALOG NUMBER: S123DIW-S340D1320U935-4F0-1E-UDD-D1

Luminous Intensity Polar Plot





TEST NUMBER: P332111-935

CATALOG NUMBER: S123DIW-S340D1320U935-4F0-1E-UDD-D1

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 | 91 | 87 | 83 | 79 | 80 | 77 | 74 | 71 | 58 | 56 | 54 | 42 | 40 | 39 | 26 | 25 | 25 | 17 |
| 2 | 83 | 75 | 69 | 64 | 73 | 67 | 62 | 58 | 51 | 48 | 45 | 36 | 34 | 32 | 23 | 21 | 20 | 14 |
| 3 | 75 | 66 | 59 | 53 | 66 | 59 | 53 | 48 | 45 | 41 | 37 | 32 | 29 | 27 | 20 | 18 | 17 | 12 |
| 4 | 69 | 58 | 51 | 45 | 60 | 52 | 45 | 40 | 40 | 35 | 31 | 28 | 25 | 23 | 18 | 16 | 15 | 10 |
| 5 | 63 | 52 | 44 | 38 | 55 | 46 | 39 | 34 | 35 | 30 | 27 | 25 | 22 | 20 | 16 | 14 | 13 | 9 |
| 6 | 58 | 46 | 38 | 33 | 51 | 41 | 34 | 29 | 31 | 27 | 23 | 23 | 19 | 17 | 14 | 12 | 11 | 8 |
| 7 | 53 | 41 | 34 | 28 | 47 | 37 | 30 | 26 | 28 | 24 | 20 | 20 | 17 | 15 | 13 | 11 | 10 | 7 |
| 8 | 49 | 37 | 30 | 25 | 43 | 33 | 27 | 22 | 26 | 21 | 18 | 19 | 15 | 13 | 12 | 10 | 9 | 6 |
| 9 | 46 | 34 | 27 | 22 | 40 | 30 | 24 | 20 | 23 | 19 | 16 | 17 | 14 | 12 | 11 | 9 | 8 | 5 |
| 10 | 42 | 31 | 24 | 19 | 38 | 28 | 22 | 18 | 21 | 17 | 14 | 16 | 13 | 10 | 10 | 8 | 7 | 5 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 3963 | 3963 | 3963 |
| 5° | 3977 | 3865 | 3866 |
| 10° | 3941 | 3776 | 3757 |
| 15° | 3890 | 3674 | 3636 |
| 20° | 3818 | 3559 | 3504 |
| 25° | 3728 | 3427 | 3365 |
| 30° | 3637 | 3307 | 3224 |
| 35° | 3533 | 3181 | 3112 |
| 40° | 3435 | 3065 | 2991 |
| 45° | 3327 | 2955 | 2895 |
| 50° | 3219 | 2846 | 2789 |
| 55° | 3100 | 2734 | 2693 |
| 60° | 2984 | 2620 | 2596 |
| 65° | 2865 | 2499 | 2479 |
| 70° | 2685 | 2362 | 2359 |
| 75° | 2462 | 2208 | 2239 |
| 80° | 2201 | 2054 | 2100 |
| 85° | 1955 | 1950 | 2018 |



TEST NUMBER: P332111-935

CATALOG NUMBER: S123DIW-S340D1320U935-4F0-1E-UDD-D1

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 34.9 | 0.7 |
| 10°-20° | 99.5 | 1.9 |
| 20°-30° | 148.9 | 2.9 |
| 30°-40° | 177.8 | 3.4 |
| 40°-50° | 186.0 | 3.6 |
| 50°-60° | 174.5 | 3.4 |
| 60°-70° | 145.8 | 2.8 |
| 70°-80° | 104.3 | 2.0 |
| 80°-90° | 66.4 | 1.3 |
| 90°-100° | 131.6 | 2.5 |
| 100°-110° | 305.9 | 5.9 |
| 110°-120° | 490.6 | 9.5 |
| 120°-130° | 631.1 | 12.2 |
| 130°-140° | 701.9 | 13.5 |
| 140°-150° | 686.2 | 13.2 |
| 150°-160° | 576.8 | 11.1 |
| 160°-170° | 383.9 | 7.4 |
| 170°-180° | 134.4 | 2.6 |
| 0°-30° | 283.3 | 5.5 |
| 0°-40° | 461.0 | 8.9 |
| 0°-60° | 821.6 | 15.9 |
| 0°-90° | 1138.0 | 22.0 |
| 90°-120° | 928.1 | 17.9 |
| 90°-150° | 2947.2 | 56.9 |
| 90°-180° | 4042.0 | 78.0 |
| 0°-180° | 5180.4 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 368 | 368 | 368 | 368 | 368 | |
| 5° | 369 | 368 | 366 | 368 | 368 | 35 |
| 15° | 351 | 352 | 352 | 356 | 355 | 99 |
| 25° | 317 | 321 | 322 | 327 | 327 | 146 |
| 35° | 273 | 279 | 284 | 290 | 292 | 171 |
| 45° | 223 | 233 | 243 | 250 | 254 | 172 |
| 55° | 170 | 183 | 198 | 208 | 212 | 152 |
| 65° | 118 | 133 | 151 | 162 | 167 | 116 |
| 75° | 64 | 83 | 103 | 116 | 121 | 68 |
| 85° | 20 | 40 | 61 | 74 | 79 | 21 |
| 90° | 6 | 37 | 72 | 90 | 96 | 8 |
| 95° | 70 | 94 | 122 | 139 | 143 | 78 |
| 105° | 254 | 267 | 294 | 305 | 311 | 272 |
| 115° | 477 | 485 | 497 | 507 | 510 | 471 |
| 125° | 696 | 700 | 708 | 712 | 711 | 620 |
| 135° | 902 | 908 | 912 | 914 | 914 | 695 |
| 145° | 1094 | 1096 | 1099 | 1101 | 1098 | 683 |
| 155° | 1252 | 1252 | 1253 | 1257 | 1250 | 576 |
| 165° | 1364 | 1360 | 1360 | 1366 | 1359 | 384 |
| 175° | 1418 | 1414 | 1414 | 1420 | 1413 | 135 |
| 180° | 1422 | 1422 | 1422 | 1422 | 1422 | |



TEST NUMBER: P332111-935

CATALOG NUMBER: S123DIW-S340D1320U935-4F0-1E-UDD-D1

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 368.2 | 368.2 | 368.2 | 368.2 | 368.2 | 368.2 | 368.2 | 368.2 | 368.2 | 368.2 | 368.2 |
| 2.5° | 369.9 | 369.7 | 369.5 | 369.3 | 369.0 | 368.7 | 368.1 | 367.5 | 367.0 | 366.4 | 367.0 |
| 5° | 368.7 | 368.5 | 368.3 | 368.2 | 368.0 | 367.6 | 367.0 | 366.5 | 366.0 | 365.5 | 366.2 |
| 7.5° | 365.1 | 365.2 | 365.2 | 365.2 | 365.2 | 365.0 | 364.5 | 363.9 | 363.4 | 362.9 | 363.8 |
| 10° | 361.9 | 362.1 | 362.2 | 362.4 | 362.6 | 362.5 | 362.0 | 361.5 | 361.1 | 360.7 | 361.5 |
| 12.5° | 358.0 | 358.3 | 358.5 | 358.8 | 359.0 | 359.0 | 358.7 | 358.3 | 358.1 | 357.7 | 358.6 |
| 15° | 351.0 | 351.3 | 351.5 | 351.8 | 352.1 | 352.2 | 352.1 | 352.0 | 351.9 | 351.8 | 352.8 |
| 17.5° | 342.2 | 342.8 | 343.3 | 343.8 | 344.3 | 344.6 | 344.6 | 344.5 | 344.5 | 344.5 | 345.3 |
| 20° | 335.8 | 336.3 | 336.8 | 337.4 | 337.9 | 338.3 | 338.5 | 338.6 | 338.8 | 339.0 | 339.8 |
| 22.5° | 329.1 | 329.6 | 330.1 | 330.6 | 331.2 | 331.6 | 331.8 | 332.1 | 332.3 | 332.6 | 333.6 |
| 25° | 316.9 | 317.8 | 318.7 | 319.6 | 320.5 | 321.1 | 321.3 | 321.6 | 321.8 | 322.2 | 323.3 |
| 27.5° | 304.7 | 305.7 | 306.8 | 307.8 | 308.8 | 309.6 | 310.1 | 310.7 | 311.3 | 311.9 | 312.9 |
| 30° | 296.1 | 297.2 | 298.4 | 299.5 | 300.7 | 301.6 | 302.4 | 303.1 | 303.8 | 304.5 | 305.6 |
| 32.5° | 286.5 | 287.7 | 289.0 | 290.3 | 291.6 | 292.7 | 293.7 | 294.6 | 295.6 | 296.4 | 297.6 |
| 35° | 272.8 | 274.2 | 275.7 | 277.1 | 278.5 | 279.8 | 280.9 | 282.1 | 283.3 | 284.5 | 285.8 |
| 37.5° | 258.4 | 259.9 | 261.6 | 263.2 | 264.8 | 266.3 | 267.7 | 269.1 | 270.6 | 272.0 | 273.5 |
| 40° | 248.7 | 250.4 | 251.9 | 253.6 | 255.1 | 256.8 | 258.6 | 260.5 | 262.2 | 264.0 | 265.5 |
| 42.5° | 238.2 | 240.1 | 242.0 | 244.0 | 246.0 | 247.9 | 249.8 | 251.6 | 253.5 | 255.3 | 257.0 |
| 45° | 223.1 | 225.2 | 227.3 | 229.5 | 231.6 | 233.8 | 236.0 | 238.2 | 240.5 | 242.7 | 244.4 |
| 47.5° | 207.2 | 209.7 | 212.1 | 214.6 | 217.0 | 219.5 | 222.0 | 224.5 | 227.0 | 229.6 | 231.5 |
| 50° | 197.0 | 199.5 | 202.0 | 204.5 | 207.0 | 209.6 | 212.3 | 215.2 | 217.9 | 220.7 | 222.7 |
| 52.5° | 186.1 | 188.7 | 191.3 | 194.0 | 196.7 | 199.5 | 202.5 | 205.6 | 208.6 | 211.6 | 213.8 |
| 55° | 170.1 | 173.1 | 176.0 | 178.9 | 181.8 | 184.9 | 188.1 | 191.4 | 194.6 | 197.8 | 200.2 |
| 57.5° | 154.5 | 157.6 | 160.7 | 163.8 | 166.8 | 170.1 | 173.6 | 177.1 | 180.6 | 184.2 | 186.6 |
| 60° | 143.6 | 146.8 | 150.1 | 153.3 | 156.4 | 159.9 | 163.6 | 167.2 | 170.8 | 174.5 | 177.0 |
| 62.5° | 133.4 | 136.6 | 139.9 | 143.2 | 146.5 | 150.1 | 153.9 | 157.8 | 161.7 | 165.6 | 168.0 |
| 65° | 117.5 | 121.1 | 124.5 | 127.9 | 131.5 | 135.2 | 139.1 | 143.0 | 146.9 | 150.8 | 153.5 |
| 67.5° | 101.5 | 105.2 | 108.9 | 112.5 | 116.2 | 120.1 | 124.1 | 128.1 | 132.1 | 136.1 | 139.0 |
| 70° | 90.2 | 94.1 | 97.9 | 101.8 | 105.6 | 109.7 | 113.9 | 118.2 | 122.5 | 126.7 | 129.7 |
| 72.5° | 80.0 | 83.9 | 87.6 | 91.5 | 95.3 | 99.4 | 103.8 | 108.3 | 112.7 | 117.2 | 120.1 |
| 75° | 63.8 | 68.0 | 72.2 | 76.4 | 80.6 | 84.9 | 89.4 | 93.8 | 98.2 | 102.7 | 105.6 |
| 77.5° | 49.7 | 53.9 | 58.1 | 62.3 | 66.6 | 70.9 | 75.4 | 79.9 | 84.4 | 88.9 | 92.0 |
| 80° | 39.7 | 44.1 | 48.5 | 52.9 | 57.2 | 61.7 | 66.3 | 70.9 | 75.6 | 80.2 | 83.3 |
| 82.5° | 31.1 | 35.5 | 40.0 | 44.3 | 48.8 | 53.4 | 58.1 | 62.8 | 67.5 | 72.2 | 75.3 |
| 85° | 19.6 | 24.1 | 28.6 | 33.1 | 37.5 | 42.1 | 46.8 | 51.5 | 56.2 | 61.0 | 64.0 |
| 87.5° | 10.9 | 15.8 | 20.8 | 25.7 | 30.7 | 35.7 | 40.9 | 46.1 | 51.3 | 56.5 | 59.7 |
| 90° | 6.4 | 13.2 | 20.1 | 26.9 | 33.8 | 41.1 | 48.8 | 56.6 | 64.4 | 72.2 | 76.2 |
| 92.5° | 31.9 | 37.5 | 43.1 | 48.8 | 54.4 | 60.4 | 66.7 | 73.0 | 79.3 | 85.7 | 89.4 |
| 95° | 70.3 | 75.5 | 80.8 | 85.9 | 91.2 | 96.9 | 103.3 | 109.6 | 116.0 | 122.3 | 126.1 |
| 97.5° | 121.0 | 125.4 | 129.8 | 134.2 | 138.7 | 143.7 | 149.3 | 154.9 | 160.5 | 166.2 | 170.0 |
| 100° | 155.5 | 159.8 | 164.2 | 168.5 | 172.9 | 177.7 | 183.0 | 188.4 | 193.7 | 199.1 | 202.4 |
| 102.5° | 195.4 | 198.8 | 202.2 | 205.8 | 209.2 | 213.8 | 219.5 | 225.1 | 230.7 | 236.4 | 239.7 |
| 105° | 254.4 | 257.1 | 259.8 | 262.3 | 265.0 | 269.3 | 275.4 | 281.5 | 287.6 | 293.6 | 296.1 |
| 107.5° | 322.8 | 324.9 | 327.0 | 329.2 | 331.2 | 334.6 | 339.1 | 343.6 | 348.2 | 352.7 | 355.9 |
| 110° | 365.3 | 367.5 | 369.5 | 371.6 | 373.8 | 376.9 | 380.9 | 385.0 | 389.0 | 393.0 | 396.4 |



TEST NUMBER: P332111-935

CATALOG NUMBER: S123DIW-S340D1320U935-4F0-1E-UDD-D1

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 410.0 | 411.6 | 413.2 | 414.8 | 416.5 | 419.0 | 422.6 | 426.1 | 429.6 | 433.2 | 436.5 |
| 115° | 476.6 | 478.5 | 480.3 | 482.1 | 483.9 | 486.1 | 488.9 | 491.5 | 494.3 | 497.0 | 499.4 |
| 117.5° | 544.0 | 545.1 | 546.3 | 547.4 | 548.6 | 550.4 | 552.8 | 555.1 | 557.5 | 559.8 | 561.9 |
| 120° | 585.7 | 587.5 | 589.5 | 591.4 | 593.4 | 595.2 | 596.9 | 598.6 | 600.3 | 602.0 | 603.8 |
| 122.5° | 629.4 | 630.8 | 632.1 | 633.4 | 634.7 | 636.5 | 638.6 | 640.8 | 642.9 | 645.1 | 646.4 |
| 125° | 695.8 | 696.5 | 697.2 | 698.0 | 698.8 | 700.2 | 702.2 | 704.4 | 706.5 | 708.5 | 709.4 |
| 127.5° | 757.4 | 759.0 | 760.4 | 761.9 | 763.4 | 765.0 | 766.5 | 768.2 | 769.7 | 771.4 | 771.7 |
| 130° | 798.5 | 800.4 | 802.3 | 804.2 | 806.1 | 807.6 | 808.7 | 809.7 | 810.7 | 811.8 | 812.4 |
| 132.5° | 839.3 | 841.3 | 843.3 | 845.2 | 847.1 | 848.6 | 849.5 | 850.3 | 851.3 | 852.1 | 852.6 |
| 135° | 902.0 | 903.4 | 904.7 | 906.2 | 907.6 | 908.6 | 909.4 | 910.1 | 910.9 | 911.5 | 912.1 |
| 137.5° | 959.9 | 961.1 | 962.3 | 963.5 | 964.7 | 965.8 | 967.0 | 968.2 | 969.4 | 970.6 | 970.9 |
| 140° | 999.9 | 1001.1 | 1002.3 | 1003.6 | 1004.8 | 1005.6 | 1006.2 | 1006.7 | 1007.2 | 1007.7 | 1008.8 |
| 142.5° | 1036.5 | 1037.7 | 1038.8 | 1040.0 | 1041.1 | 1042.0 | 1042.5 | 1043.0 | 1043.4 | 1044.0 | 1044.9 |
| 145° | 1093.6 | 1094.1 | 1094.5 | 1094.8 | 1095.3 | 1095.9 | 1096.6 | 1097.3 | 1098.1 | 1098.8 | 1099.3 |
| 147.5° | 1143.2 | 1144.2 | 1145.0 | 1146.0 | 1146.9 | 1147.6 | 1148.3 | 1149.0 | 1149.7 | 1150.4 | 1150.6 |
| 150° | 1178.1 | 1178.6 | 1179.1 | 1179.6 | 1180.1 | 1180.6 | 1181.1 | 1181.6 | 1182.1 | 1182.6 | 1182.6 |
| 152.5° | 1206.7 | 1207.4 | 1208.1 | 1208.8 | 1209.4 | 1210.0 | 1210.3 | 1210.6 | 1210.9 | 1211.2 | 1211.6 |
| 155° | 1251.8 | 1251.8 | 1251.8 | 1251.8 | 1251.8 | 1252.0 | 1252.2 | 1252.4 | 1252.7 | 1252.9 | 1254.0 |
| 157.5° | 1290.2 | 1290.0 | 1289.6 | 1289.3 | 1289.0 | 1289.0 | 1289.2 | 1289.3 | 1289.6 | 1289.8 | 1290.8 |
| 160° | 1314.3 | 1313.9 | 1313.4 | 1312.9 | 1312.3 | 1312.1 | 1312.1 | 1312.1 | 1312.1 | 1312.1 | 1313.4 |
| 162.5° | 1335.8 | 1335.1 | 1334.4 | 1333.7 | 1333.0 | 1332.7 | 1333.0 | 1333.2 | 1333.3 | 1333.5 | 1334.8 |
| 165° | 1363.5 | 1362.7 | 1362.0 | 1361.2 | 1360.6 | 1360.1 | 1360.1 | 1360.1 | 1360.1 | 1360.1 | 1361.6 |
| 167.5° | 1385.6 | 1384.6 | 1383.6 | 1382.6 | 1381.6 | 1381.2 | 1381.4 | 1381.6 | 1381.8 | 1382.0 | 1383.5 |
| 170° | 1398.1 | 1397.1 | 1396.1 | 1395.2 | 1394.1 | 1393.6 | 1393.6 | 1393.6 | 1393.6 | 1393.6 | 1395.3 |
| 172.5° | 1407.9 | 1407.0 | 1405.9 | 1405.0 | 1403.9 | 1403.4 | 1403.4 | 1403.4 | 1403.4 | 1403.4 | 1405.0 |
| 175° | 1418.2 | 1417.2 | 1416.3 | 1415.2 | 1414.2 | 1413.8 | 1413.8 | 1413.8 | 1413.8 | 1413.8 | 1415.2 |
| 177.5° | 1422.5 | 1421.7 | 1420.8 | 1420.0 | 1419.3 | 1418.8 | 1418.8 | 1418.8 | 1418.8 | 1418.8 | 1420.0 |
| 180° | 1421.6 | 1421.6 | 1421.6 | 1421.6 | 1421.6 | 1421.6 | 1421.6 | 1421.6 | 1421.6 | 1421.6 | 1421.6 |



TEST NUMBER: P332111-935

CATALOG NUMBER: S123DIW-S340D1320U935-4F0-1E-UDD-D1

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 368.2 | 368.2 | 368.2 | 368.2 | 368.2 | 368.2 | 368.2 | 368.2 |
| 2.5° | 367.5 | 368.1 | 368.7 | 368.9 | 368.9 | 368.8 | 368.7 | 368.6 |
| 5° | 366.9 | 367.6 | 368.3 | 368.7 | 368.6 | 368.4 | 368.3 | 368.2 |
| 7.5° | 364.7 | 365.6 | 366.4 | 366.9 | 366.8 | 366.6 | 366.5 | 366.4 |
| 10° | 362.5 | 363.3 | 364.2 | 364.5 | 364.4 | 364.2 | 364.0 | 363.9 |
| 12.5° | 359.4 | 360.2 | 361.0 | 361.4 | 361.2 | 361.0 | 360.8 | 360.7 |
| 15° | 353.6 | 354.5 | 355.4 | 355.8 | 355.7 | 355.6 | 355.5 | 355.4 |
| 17.5° | 346.0 | 346.9 | 347.7 | 348.0 | 347.8 | 347.8 | 347.7 | 347.5 |
| 20° | 340.6 | 341.4 | 342.2 | 342.7 | 342.8 | 342.9 | 342.9 | 343.0 |
| 22.5° | 334.6 | 335.6 | 336.7 | 337.2 | 337.1 | 337.0 | 337.0 | 336.9 |
| 25° | 324.4 | 325.6 | 326.7 | 327.4 | 327.4 | 327.4 | 327.4 | 327.4 |
| 27.5° | 313.8 | 314.9 | 315.9 | 316.4 | 316.5 | 316.6 | 316.6 | 316.7 |
| 30° | 306.6 | 307.7 | 308.8 | 309.3 | 309.3 | 309.3 | 309.3 | 309.3 |
| 32.5° | 298.8 | 299.9 | 301.0 | 301.7 | 302.0 | 302.1 | 302.4 | 302.6 |
| 35° | 287.1 | 288.4 | 289.8 | 290.7 | 291.0 | 291.4 | 291.7 | 292.1 |
| 37.5° | 275.0 | 276.6 | 278.1 | 279.0 | 279.2 | 279.6 | 279.8 | 280.1 |
| 40° | 267.0 | 268.5 | 270.0 | 271.0 | 271.3 | 271.7 | 272.1 | 272.4 |
| 42.5° | 258.6 | 260.3 | 261.9 | 263.0 | 263.6 | 264.0 | 264.5 | 265.0 |
| 45° | 246.1 | 247.8 | 249.5 | 250.7 | 251.4 | 252.1 | 252.9 | 253.6 |
| 47.5° | 233.4 | 235.4 | 237.3 | 238.5 | 239.0 | 239.6 | 240.1 | 240.7 |
| 50° | 224.7 | 226.8 | 228.9 | 230.2 | 230.8 | 231.4 | 232.0 | 232.7 |
| 52.5° | 215.9 | 218.0 | 220.2 | 221.6 | 222.4 | 223.2 | 223.9 | 224.6 |
| 55° | 202.6 | 205.0 | 207.4 | 209.0 | 209.7 | 210.4 | 211.1 | 211.8 |
| 57.5° | 189.0 | 191.4 | 193.8 | 195.4 | 196.3 | 197.2 | 198.0 | 198.8 |
| 60° | 179.5 | 182.0 | 184.5 | 186.2 | 187.2 | 188.2 | 189.2 | 190.2 |
| 62.5° | 170.5 | 173.0 | 175.5 | 177.2 | 178.1 | 179.0 | 179.9 | 180.9 |
| 65° | 156.2 | 158.9 | 161.5 | 163.3 | 164.2 | 165.1 | 166.0 | 166.9 |
| 67.5° | 141.9 | 144.8 | 147.7 | 149.6 | 150.3 | 151.1 | 151.9 | 152.6 |
| 70° | 132.5 | 135.3 | 138.2 | 140.1 | 140.9 | 141.8 | 142.8 | 143.6 |
| 72.5° | 123.0 | 125.9 | 128.8 | 130.8 | 131.6 | 132.5 | 133.5 | 134.3 |
| 75° | 108.6 | 111.5 | 114.5 | 116.5 | 117.5 | 118.6 | 119.7 | 120.8 |
| 77.5° | 95.1 | 98.2 | 101.3 | 103.2 | 104.1 | 105.0 | 105.7 | 106.6 |
| 80° | 86.3 | 89.4 | 92.4 | 94.3 | 95.2 | 96.1 | 97.0 | 97.9 |
| 82.5° | 78.3 | 81.3 | 84.4 | 86.3 | 87.2 | 88.1 | 88.9 | 89.9 |
| 85° | 67.1 | 70.1 | 73.1 | 75.1 | 75.9 | 76.9 | 77.7 | 78.6 |
| 87.5° | 62.9 | 66.1 | 69.4 | 71.5 | 72.5 | 73.4 | 74.5 | 75.4 |
| 90° | 80.2 | 84.2 | 88.3 | 90.9 | 92.3 | 93.7 | 95.1 | 96.5 |
| 92.5° | 93.2 | 96.9 | 100.7 | 102.8 | 103.3 | 103.8 | 104.4 | 104.9 |
| 95° | 129.8 | 133.6 | 137.4 | 139.7 | 140.6 | 141.5 | 142.4 | 143.3 |
| 97.5° | 173.7 | 177.5 | 181.3 | 183.7 | 184.4 | 185.2 | 186.0 | 186.8 |
| 100° | 205.7 | 209.1 | 212.4 | 214.7 | 216.1 | 217.5 | 218.9 | 220.3 |
| 102.5° | 243.0 | 246.2 | 249.4 | 251.5 | 252.3 | 253.0 | 253.9 | 254.7 |
| 105° | 298.6 | 301.1 | 303.6 | 305.5 | 306.8 | 308.2 | 309.4 | 310.7 |
| 107.5° | 359.0 | 362.2 | 365.4 | 367.2 | 367.7 | 368.2 | 368.7 | 369.2 |
| 110° | 399.7 | 403.0 | 406.3 | 408.1 | 408.3 | 408.5 | 408.7 | 409.0 |



TEST NUMBER: P332111-935

CATALOG NUMBER: S123DIW-S340D1320U935-4F0-1E-UDD-D1

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 440.0 | 443.4 | 446.9 | 448.9 | 449.6 | 450.3 | 451.0 | 451.7 |
| 115° | 501.8 | 504.1 | 506.5 | 508.0 | 508.4 | 508.9 | 509.4 | 509.8 |
| 117.5° | 564.0 | 566.0 | 568.1 | 569.1 | 569.1 | 569.1 | 569.1 | 569.1 |
| 120° | 605.6 | 607.4 | 609.2 | 610.2 | 610.3 | 610.4 | 610.5 | 610.7 |
| 122.5° | 647.7 | 649.0 | 650.4 | 651.0 | 650.9 | 650.9 | 650.8 | 650.7 |
| 125° | 710.3 | 711.2 | 712.0 | 712.3 | 712.0 | 711.6 | 711.2 | 710.8 |
| 127.5° | 772.1 | 772.5 | 772.8 | 772.7 | 772.2 | 771.7 | 771.2 | 770.6 |
| 130° | 813.1 | 813.8 | 814.5 | 814.2 | 813.0 | 811.9 | 810.7 | 809.5 |
| 132.5° | 853.0 | 853.4 | 853.9 | 853.7 | 853.0 | 852.2 | 851.5 | 850.8 |
| 135° | 912.8 | 913.4 | 914.0 | 914.3 | 914.2 | 914.2 | 914.1 | 914.1 |
| 137.5° | 971.4 | 971.7 | 972.1 | 972.0 | 971.6 | 971.0 | 970.5 | 970.0 |
| 140° | 1010.0 | 1011.0 | 1012.1 | 1012.0 | 1010.7 | 1009.4 | 1008.1 | 1006.9 |
| 142.5° | 1045.9 | 1046.8 | 1047.8 | 1047.8 | 1046.9 | 1046.0 | 1045.1 | 1044.2 |
| 145° | 1099.8 | 1100.2 | 1100.7 | 1100.6 | 1099.9 | 1099.3 | 1098.7 | 1098.0 |
| 147.5° | 1150.8 | 1151.1 | 1151.2 | 1150.8 | 1149.6 | 1148.5 | 1147.3 | 1146.2 |
| 150° | 1182.6 | 1182.6 | 1182.6 | 1181.9 | 1180.6 | 1179.3 | 1178.0 | 1176.6 |
| 152.5° | 1211.9 | 1212.4 | 1212.7 | 1212.3 | 1211.1 | 1209.8 | 1208.6 | 1207.3 |
| 155° | 1254.9 | 1255.9 | 1256.9 | 1256.5 | 1254.8 | 1253.1 | 1251.3 | 1249.6 |
| 157.5° | 1291.8 | 1292.9 | 1294.0 | 1293.7 | 1292.4 | 1291.0 | 1289.6 | 1288.2 |
| 160° | 1314.6 | 1315.9 | 1317.1 | 1317.2 | 1316.2 | 1315.3 | 1314.2 | 1313.2 |
| 162.5° | 1336.0 | 1337.3 | 1338.5 | 1338.3 | 1336.8 | 1335.2 | 1333.6 | 1332.0 |
| 165° | 1363.1 | 1364.6 | 1366.1 | 1366.0 | 1364.3 | 1362.5 | 1360.7 | 1359.0 |
| 167.5° | 1385.1 | 1386.6 | 1388.2 | 1388.2 | 1386.6 | 1385.1 | 1383.5 | 1382.0 |
| 170° | 1397.1 | 1398.9 | 1400.6 | 1400.6 | 1398.9 | 1397.1 | 1395.3 | 1393.6 |
| 172.5° | 1406.5 | 1408.1 | 1409.6 | 1409.5 | 1407.8 | 1406.0 | 1404.3 | 1402.6 |
| 175° | 1416.7 | 1418.2 | 1419.7 | 1419.5 | 1417.8 | 1416.1 | 1414.4 | 1412.6 |
| 177.5° | 1421.3 | 1422.5 | 1423.7 | 1423.6 | 1422.1 | 1420.7 | 1419.4 | 1418.0 |
| 180° | 1421.6 | 1421.6 | 1421.6 | 1421.6 | 1421.6 | 1421.6 | 1421.6 | 1421.6 |

(END OF REPORT)