

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: P332093-840

Luminaire Tested: **S123DIW-S340D460U840-4F0-1E-UDD-D1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332093-840
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-S340D460U840-4F0-1E-UDD-D1
Description: DEFINE 3 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 340 LUMENS PER FOOT, DROP SATIN WHITE DIFFUSER
UPLIGHT 460 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3067.4 lumens
Efficiency: N/A
Efficacy: 133.4 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: General Diffuse

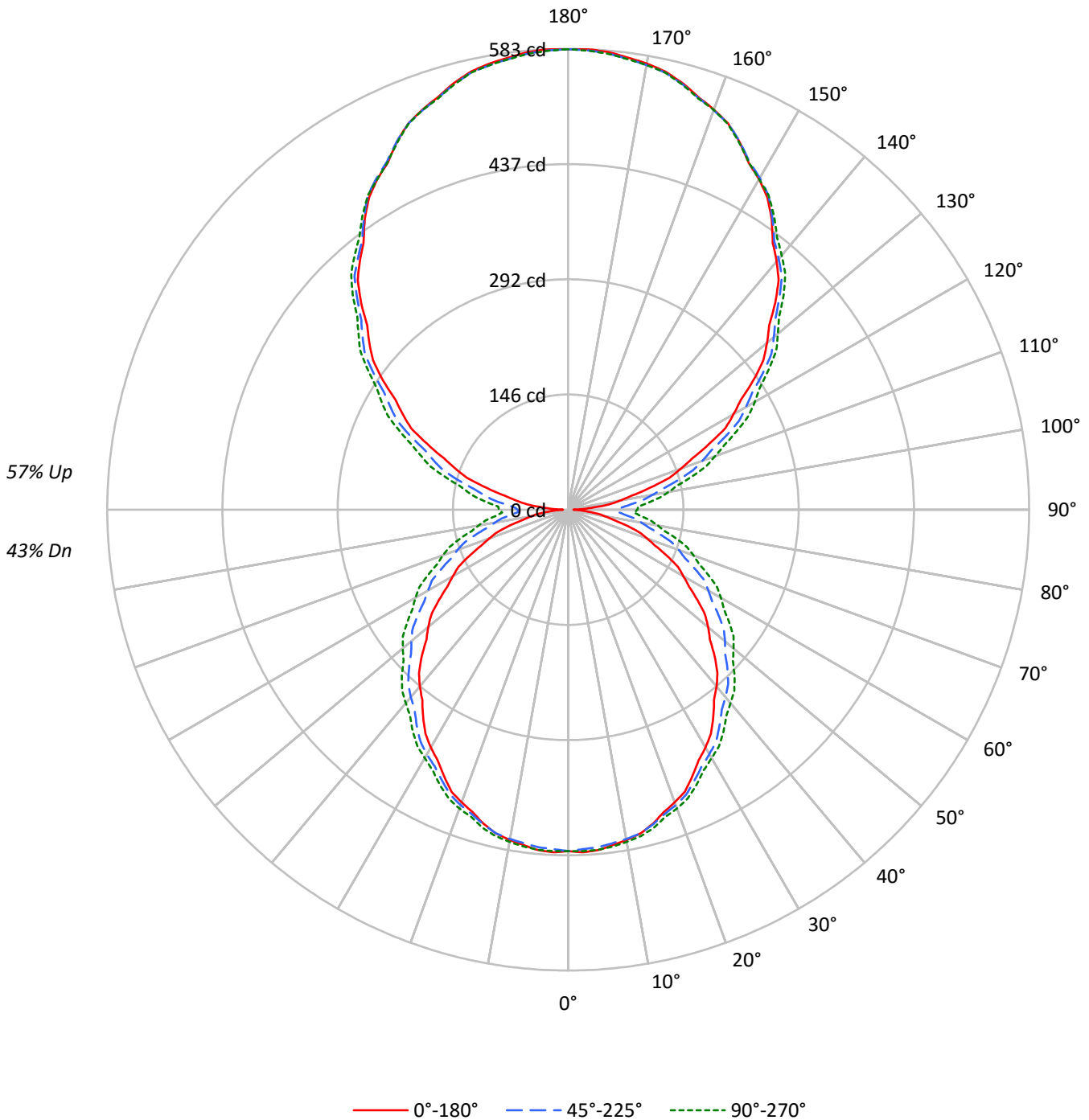
Input Watts (W): 23
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P332093-840

CATALOG NUMBER: S123DIW-S340D460U840-4F0-1E-UDD-D1

Luminous Intensity Polar Plot





TEST NUMBER: P332093-840

CATALOG NUMBER: S123DIW-S340D460U840-4F0-1E-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 | 106 | 106 | 106 | 106 | 97 | 97 | 97 | 97 | 80 | 80 | 80 | 64 | 64 | 64 | 50 | 50 | 50 | 43 |
| 1 | 95 | 91 | 86 | 83 | 87 | 83 | 79 | 76 | 68 | 66 | 63 | 55 | 53 | 52 | 43 | 42 | 40 | 35 |
| 2 | 86 | 79 | 72 | 67 | 79 | 72 | 66 | 62 | 59 | 55 | 52 | 48 | 45 | 42 | 37 | 35 | 33 | 28 |
| 3 | 79 | 69 | 61 | 55 | 71 | 63 | 56 | 51 | 52 | 47 | 43 | 42 | 38 | 35 | 33 | 30 | 28 | 24 |
| 4 | 72 | 61 | 53 | 46 | 65 | 56 | 49 | 43 | 46 | 41 | 36 | 37 | 33 | 30 | 29 | 26 | 24 | 20 |
| 5 | 66 | 54 | 46 | 39 | 60 | 49 | 42 | 37 | 41 | 35 | 31 | 33 | 29 | 26 | 26 | 23 | 21 | 17 |
| 6 | 60 | 48 | 40 | 34 | 55 | 44 | 37 | 32 | 37 | 31 | 27 | 30 | 26 | 23 | 23 | 20 | 18 | 15 |
| 7 | 56 | 43 | 35 | 30 | 51 | 40 | 33 | 28 | 33 | 28 | 24 | 27 | 23 | 20 | 21 | 18 | 16 | 13 |
| 8 | 52 | 39 | 32 | 26 | 47 | 36 | 29 | 24 | 30 | 25 | 21 | 25 | 21 | 18 | 20 | 17 | 14 | 12 |
| 9 | 48 | 36 | 28 | 23 | 44 | 33 | 26 | 22 | 28 | 22 | 19 | 23 | 19 | 16 | 18 | 15 | 13 | 11 |
| 10 | 45 | 33 | 26 | 21 | 41 | 30 | 24 | 19 | 26 | 20 | 17 | 21 | 17 | 14 | 17 | 14 | 12 | 10 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 4649 | 4649 | 4649 |
| 5° | 4664 | 4533 | 4534 |
| 10° | 4622 | 4428 | 4406 |
| 15° | 4562 | 4309 | 4265 |
| 20° | 4477 | 4174 | 4110 |
| 25° | 4372 | 4019 | 3947 |
| 30° | 4265 | 3879 | 3780 |
| 35° | 4143 | 3731 | 3649 |
| 40° | 4030 | 3595 | 3508 |
| 45° | 3902 | 3466 | 3395 |
| 50° | 3776 | 3338 | 3272 |
| 55° | 3636 | 3207 | 3158 |
| 60° | 3499 | 3074 | 3045 |
| 65° | 3360 | 2931 | 2907 |
| 70° | 3149 | 2772 | 2766 |
| 75° | 2886 | 2590 | 2626 |
| 80° | 2583 | 2410 | 2462 |
| 85° | 2294 | 2286 | 2367 |



TEST NUMBER: P332093-840

CATALOG NUMBER: S123DIW-S340D460U840-4F0-1E-UDD-D1

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 40.9 | 1.3 |
| 10°-20° | 116.7 | 3.8 |
| 20°-30° | 174.6 | 5.7 |
| 30°-40° | 208.5 | 6.8 |
| 40°-50° | 218.1 | 7.1 |
| 50°-60° | 204.7 | 6.7 |
| 60°-70° | 171.0 | 5.6 |
| 70°-80° | 122.3 | 4.0 |
| 80°-90° | 74.7 | 2.4 |
| 90°-100° | 83.7 | 2.7 |
| 100°-110° | 147.2 | 4.8 |
| 110°-120° | 215.7 | 7.0 |
| 120°-130° | 267.0 | 8.7 |
| 130°-140° | 291.4 | 9.5 |
| 140°-150° | 282.0 | 9.2 |
| 150°-160° | 236.4 | 7.7 |
| 160°-170° | 157.3 | 5.1 |
| 170°-180° | 55.1 | 1.8 |
| 0°-30° | 332.3 | 10.8 |
| 0°-40° | 540.8 | 17.6 |
| 0°-60° | 963.6 | 31.4 |
| 0°-90° | 1331.6 | 43.4 |
| 90°-120° | 446.6 | 14.6 |
| 90°-150° | 1287.0 | 42.0 |
| 90°-180° | 1736.0 | 56.6 |
| 0°-180° | 3067.4 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|-----|-------|-----|-------|-----|------|
| 0° | 432 | 432 | 432 | 432 | 432 | |
| 5° | 432 | 431 | 429 | 432 | 432 | 41 |
| 15° | 412 | 413 | 413 | 417 | 417 | 116 |
| 25° | 372 | 376 | 378 | 384 | 384 | 171 |
| 35° | 320 | 327 | 334 | 340 | 342 | 200 |
| 45° | 262 | 273 | 285 | 293 | 297 | 202 |
| 55° | 200 | 215 | 232 | 244 | 248 | 179 |
| 65° | 138 | 156 | 177 | 191 | 196 | 136 |
| 75° | 75 | 97 | 120 | 135 | 142 | 80 |
| 85° | 23 | 47 | 72 | 87 | 92 | 24 |
| 90° | 7 | 34 | 64 | 81 | 88 | 6 |
| 95° | 32 | 54 | 80 | 96 | 102 | 34 |
| 105° | 107 | 120 | 143 | 156 | 162 | 114 |
| 115° | 197 | 204 | 220 | 231 | 235 | 195 |
| 125° | 286 | 288 | 300 | 308 | 310 | 255 |
| 135° | 370 | 373 | 377 | 384 | 385 | 285 |
| 145° | 448 | 449 | 450 | 453 | 454 | 280 |
| 155° | 513 | 513 | 514 | 515 | 512 | 236 |
| 165° | 559 | 557 | 557 | 560 | 557 | 157 |
| 175° | 581 | 580 | 579 | 582 | 579 | 55 |
| 180° | 583 | 583 | 583 | 583 | 583 | |



TEST NUMBER: P332093-840

CATALOG NUMBER: S123DIW-S340D460U840-4F0-1E-UDD-D1

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 431.9 | 431.9 | 431.9 | 431.9 | 431.9 | 431.9 | 431.9 | 431.9 | 431.9 | 431.9 | 431.9 |
| 2.5° | 433.8 | 433.6 | 433.3 | 433.1 | 432.8 | 432.4 | 431.7 | 431.0 | 430.4 | 429.7 | 430.4 |
| 5° | 432.4 | 432.2 | 432.0 | 431.8 | 431.6 | 431.2 | 430.5 | 429.9 | 429.3 | 428.7 | 429.5 |
| 7.5° | 428.2 | 428.3 | 428.3 | 428.3 | 428.4 | 428.1 | 427.5 | 426.9 | 426.3 | 425.7 | 426.7 |
| 10° | 424.4 | 424.6 | 424.9 | 425.1 | 425.3 | 425.2 | 424.5 | 424.0 | 423.5 | 423.0 | 424.0 |
| 12.5° | 419.9 | 420.2 | 420.5 | 420.8 | 421.1 | 421.0 | 420.7 | 420.3 | 420.0 | 419.6 | 420.6 |
| 15° | 411.7 | 412.0 | 412.3 | 412.6 | 412.9 | 413.1 | 412.9 | 412.8 | 412.7 | 412.6 | 413.7 |
| 17.5° | 401.4 | 402.0 | 402.6 | 403.2 | 403.8 | 404.1 | 404.1 | 404.0 | 404.0 | 404.0 | 405.0 |
| 20° | 393.8 | 394.5 | 395.1 | 395.8 | 396.4 | 396.8 | 397.0 | 397.2 | 397.4 | 397.6 | 398.6 |
| 22.5° | 386.0 | 386.6 | 387.2 | 387.8 | 388.5 | 388.9 | 389.2 | 389.5 | 389.8 | 390.1 | 391.3 |
| 25° | 371.7 | 372.7 | 373.9 | 374.9 | 375.9 | 376.6 | 376.9 | 377.2 | 377.5 | 377.9 | 379.2 |
| 27.5° | 357.4 | 358.6 | 359.8 | 361.0 | 362.2 | 363.1 | 363.8 | 364.5 | 365.2 | 365.8 | 367.0 |
| 30° | 347.3 | 348.6 | 350.0 | 351.3 | 352.7 | 353.8 | 354.7 | 355.5 | 356.3 | 357.2 | 358.4 |
| 32.5° | 336.0 | 337.5 | 339.0 | 340.5 | 342.0 | 343.4 | 344.5 | 345.6 | 346.7 | 347.7 | 349.1 |
| 35° | 319.9 | 321.6 | 323.4 | 325.0 | 326.7 | 328.2 | 329.5 | 330.9 | 332.2 | 333.7 | 335.2 |
| 37.5° | 303.1 | 304.9 | 306.8 | 308.7 | 310.5 | 312.4 | 314.0 | 315.7 | 317.4 | 319.0 | 320.8 |
| 40° | 291.8 | 293.7 | 295.5 | 297.4 | 299.2 | 301.2 | 303.4 | 305.5 | 307.5 | 309.6 | 311.4 |
| 42.5° | 279.3 | 281.7 | 283.9 | 286.2 | 288.5 | 290.7 | 293.0 | 295.1 | 297.3 | 299.4 | 301.4 |
| 45° | 261.7 | 264.2 | 266.6 | 269.1 | 271.7 | 274.2 | 276.8 | 279.4 | 282.1 | 284.7 | 286.7 |
| 47.5° | 243.1 | 245.9 | 248.7 | 251.7 | 254.5 | 257.4 | 260.3 | 263.4 | 266.3 | 269.3 | 271.6 |
| 50° | 231.1 | 234.0 | 236.9 | 239.8 | 242.8 | 245.8 | 249.0 | 252.4 | 255.6 | 258.8 | 261.3 |
| 52.5° | 218.2 | 221.4 | 224.4 | 227.5 | 230.7 | 234.0 | 237.5 | 241.2 | 244.7 | 248.2 | 250.7 |
| 55° | 199.5 | 203.0 | 206.4 | 209.8 | 213.3 | 216.9 | 220.7 | 224.5 | 228.2 | 232.0 | 234.8 |
| 57.5° | 181.3 | 184.8 | 188.4 | 192.1 | 195.6 | 199.5 | 203.6 | 207.7 | 211.9 | 216.0 | 218.8 |
| 60° | 168.4 | 172.2 | 176.0 | 179.8 | 183.5 | 187.5 | 191.9 | 196.1 | 200.4 | 204.7 | 207.6 |
| 62.5° | 156.4 | 160.3 | 164.1 | 167.9 | 171.8 | 176.0 | 180.6 | 185.1 | 189.7 | 194.2 | 197.0 |
| 65° | 137.8 | 142.0 | 146.0 | 150.1 | 154.2 | 158.5 | 163.1 | 167.7 | 172.3 | 176.9 | 180.1 |
| 67.5° | 119.1 | 123.4 | 127.7 | 132.0 | 136.3 | 140.9 | 145.5 | 150.3 | 154.9 | 159.7 | 163.0 |
| 70° | 105.8 | 110.4 | 114.8 | 119.4 | 123.8 | 128.7 | 133.6 | 138.7 | 143.7 | 148.7 | 152.1 |
| 72.5° | 93.8 | 98.4 | 102.8 | 107.3 | 111.8 | 116.6 | 121.8 | 127.0 | 132.2 | 137.4 | 140.9 |
| 75° | 74.8 | 79.8 | 84.6 | 89.6 | 94.5 | 99.6 | 104.8 | 110.0 | 115.2 | 120.5 | 123.9 |
| 77.5° | 58.3 | 63.2 | 68.2 | 73.1 | 78.1 | 83.2 | 88.5 | 93.7 | 99.0 | 104.3 | 108.0 |
| 80° | 46.6 | 51.7 | 56.9 | 62.0 | 67.1 | 72.4 | 77.8 | 83.2 | 88.7 | 94.1 | 97.7 |
| 82.5° | 36.5 | 41.6 | 46.9 | 52.0 | 57.3 | 62.6 | 68.2 | 73.6 | 79.2 | 84.7 | 88.3 |
| 85° | 23.0 | 28.3 | 33.5 | 38.8 | 43.9 | 49.4 | 54.9 | 60.4 | 65.9 | 71.5 | 75.0 |
| 87.5° | 12.6 | 18.0 | 23.4 | 28.9 | 34.2 | 39.8 | 45.3 | 51.0 | 56.6 | 62.1 | 65.7 |
| 90° | 6.6 | 12.7 | 18.9 | 25.0 | 31.1 | 37.6 | 44.2 | 50.8 | 57.5 | 64.1 | 68.2 |
| 92.5° | 16.9 | 22.1 | 27.5 | 32.7 | 38.1 | 43.7 | 49.7 | 55.7 | 61.7 | 67.8 | 71.5 |
| 95° | 32.2 | 37.0 | 41.7 | 46.6 | 51.3 | 56.7 | 62.6 | 68.6 | 74.5 | 80.5 | 84.1 |
| 97.5° | 52.6 | 56.8 | 61.0 | 65.2 | 69.4 | 74.2 | 79.8 | 85.2 | 90.7 | 96.2 | 99.8 |
| 100° | 66.4 | 70.4 | 74.4 | 78.4 | 82.3 | 86.9 | 92.3 | 97.6 | 102.9 | 108.3 | 111.6 |
| 102.5° | 82.6 | 85.9 | 89.4 | 92.7 | 96.0 | 100.5 | 105.8 | 111.3 | 116.6 | 122.1 | 125.3 |
| 105° | 106.7 | 109.5 | 112.2 | 114.9 | 117.5 | 121.7 | 127.0 | 132.5 | 137.8 | 143.3 | 146.2 |
| 107.5° | 134.3 | 136.6 | 138.9 | 141.1 | 143.4 | 146.8 | 151.5 | 156.1 | 160.8 | 165.3 | 168.4 |
| 110° | 151.6 | 153.6 | 155.7 | 157.8 | 159.9 | 163.1 | 167.5 | 171.9 | 176.3 | 180.7 | 183.8 |



TEST NUMBER: P332093-840

CATALOG NUMBER: S123DIW-S340D460U840-4F0-1E-UDD-D1

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 169.9 | 171.6 | 173.2 | 174.9 | 176.5 | 179.5 | 183.5 | 187.5 | 191.6 | 195.6 | 198.7 |
| 115° | 196.8 | 198.4 | 200.0 | 201.6 | 203.1 | 205.6 | 209.2 | 212.8 | 216.3 | 219.8 | 222.5 |
| 117.5° | 224.4 | 225.4 | 226.3 | 227.3 | 228.3 | 230.5 | 233.7 | 237.0 | 240.2 | 243.5 | 246.0 |
| 120° | 241.3 | 242.4 | 243.5 | 244.6 | 245.8 | 247.8 | 250.7 | 253.7 | 256.6 | 259.5 | 261.9 |
| 122.5° | 259.1 | 259.9 | 260.6 | 261.4 | 262.1 | 263.9 | 266.9 | 269.9 | 273.0 | 276.0 | 278.0 |
| 125° | 286.1 | 286.4 | 286.7 | 287.0 | 287.3 | 288.8 | 291.6 | 294.5 | 297.3 | 300.1 | 301.9 |
| 127.5° | 311.3 | 311.8 | 312.5 | 313.0 | 313.6 | 315.0 | 317.2 | 319.5 | 321.7 | 324.1 | 325.6 |
| 130° | 328.2 | 328.9 | 329.6 | 330.3 | 331.0 | 332.2 | 334.1 | 335.8 | 337.6 | 339.4 | 340.9 |
| 132.5° | 344.7 | 345.5 | 346.2 | 347.0 | 347.8 | 348.9 | 350.4 | 351.8 | 353.3 | 354.8 | 356.2 |
| 135° | 370.2 | 370.7 | 371.2 | 371.7 | 372.2 | 373.0 | 374.2 | 375.2 | 376.2 | 377.3 | 378.7 |
| 137.5° | 393.9 | 394.4 | 394.9 | 395.3 | 395.7 | 396.4 | 397.3 | 398.2 | 399.1 | 400.0 | 401.2 |
| 140° | 410.1 | 410.6 | 411.1 | 411.6 | 412.1 | 412.5 | 412.9 | 413.4 | 413.8 | 414.2 | 415.7 |
| 142.5° | 425.1 | 425.5 | 426.0 | 426.4 | 426.8 | 427.1 | 427.4 | 427.6 | 427.9 | 428.1 | 429.4 |
| 145° | 448.5 | 448.6 | 448.7 | 448.8 | 448.9 | 449.1 | 449.4 | 449.7 | 450.0 | 450.3 | 451.1 |
| 147.5° | 468.6 | 468.9 | 469.3 | 469.6 | 470.0 | 470.3 | 470.6 | 470.9 | 471.2 | 471.5 | 471.7 |
| 150° | 482.8 | 483.0 | 483.2 | 483.4 | 483.6 | 483.8 | 484.0 | 484.2 | 484.4 | 484.6 | 484.6 |
| 152.5° | 494.5 | 494.8 | 495.1 | 495.3 | 495.6 | 495.8 | 495.9 | 496.1 | 496.2 | 496.3 | 496.6 |
| 155° | 513.0 | 513.0 | 513.0 | 513.0 | 513.0 | 513.1 | 513.2 | 513.3 | 513.4 | 513.5 | 513.9 |
| 157.5° | 528.8 | 528.7 | 528.6 | 528.4 | 528.3 | 528.3 | 528.4 | 528.5 | 528.5 | 528.6 | 529.0 |
| 160° | 538.7 | 538.5 | 538.3 | 538.1 | 537.9 | 537.8 | 537.8 | 537.8 | 537.8 | 537.8 | 538.3 |
| 162.5° | 547.4 | 547.1 | 546.8 | 546.5 | 546.3 | 546.2 | 546.2 | 546.3 | 546.4 | 546.5 | 547.0 |
| 165° | 558.8 | 558.5 | 558.2 | 557.8 | 557.5 | 557.4 | 557.4 | 557.4 | 557.4 | 557.4 | 558.1 |
| 167.5° | 567.8 | 567.4 | 567.0 | 566.6 | 566.2 | 566.0 | 566.1 | 566.2 | 566.3 | 566.3 | 567.0 |
| 170° | 573.0 | 572.6 | 572.2 | 571.8 | 571.4 | 571.2 | 571.2 | 571.2 | 571.2 | 571.2 | 571.9 |
| 172.5° | 577.0 | 576.6 | 576.2 | 575.8 | 575.3 | 575.1 | 575.1 | 575.1 | 575.1 | 575.1 | 575.8 |
| 175° | 581.2 | 580.8 | 580.4 | 580.0 | 579.6 | 579.4 | 579.4 | 579.4 | 579.4 | 579.4 | 580.0 |
| 177.5° | 583.0 | 582.6 | 582.3 | 582.0 | 581.7 | 581.5 | 581.5 | 581.5 | 581.5 | 581.5 | 582.0 |
| 180° | 582.6 | 582.6 | 582.6 | 582.6 | 582.6 | 582.6 | 582.6 | 582.6 | 582.6 | 582.6 | 582.6 |



TEST NUMBER: P332093-840

CATALOG NUMBER: S123DIW-S340D460U840-4F0-1E-UDD-D1

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 431.9 | 431.9 | 431.9 | 431.9 | 431.9 | 431.9 | 431.9 | 431.9 |
| 2.5° | 431.0 | 431.7 | 432.4 | 432.6 | 432.6 | 432.5 | 432.4 | 432.3 |
| 5° | 430.3 | 431.2 | 432.0 | 432.4 | 432.3 | 432.1 | 432.0 | 431.9 |
| 7.5° | 427.8 | 428.8 | 429.8 | 430.3 | 430.2 | 430.0 | 429.9 | 429.8 |
| 10° | 425.2 | 426.2 | 427.2 | 427.6 | 427.4 | 427.2 | 427.0 | 426.8 |
| 12.5° | 421.5 | 422.5 | 423.4 | 423.8 | 423.6 | 423.4 | 423.2 | 423.0 |
| 15° | 414.8 | 415.8 | 416.9 | 417.3 | 417.2 | 417.1 | 417.0 | 416.9 |
| 17.5° | 405.9 | 406.9 | 407.8 | 408.2 | 408.0 | 407.9 | 407.8 | 407.6 |
| 20° | 399.5 | 400.4 | 401.4 | 401.9 | 402.0 | 402.1 | 402.2 | 402.3 |
| 22.5° | 392.4 | 393.6 | 394.9 | 395.5 | 395.4 | 395.3 | 395.3 | 395.2 |
| 25° | 380.5 | 381.9 | 383.2 | 384.0 | 384.0 | 384.0 | 384.0 | 384.0 |
| 27.5° | 368.1 | 369.3 | 370.5 | 371.1 | 371.2 | 371.3 | 371.3 | 371.4 |
| 30° | 359.6 | 360.9 | 362.1 | 362.7 | 362.7 | 362.7 | 362.7 | 362.7 |
| 32.5° | 350.4 | 351.7 | 353.0 | 353.9 | 354.2 | 354.4 | 354.7 | 354.9 |
| 35° | 336.8 | 338.3 | 339.9 | 340.9 | 341.3 | 341.7 | 342.1 | 342.5 |
| 37.5° | 322.6 | 324.4 | 326.2 | 327.2 | 327.5 | 327.9 | 328.2 | 328.5 |
| 40° | 313.2 | 315.0 | 316.7 | 317.8 | 318.2 | 318.7 | 319.1 | 319.5 |
| 42.5° | 303.4 | 305.3 | 307.2 | 308.5 | 309.1 | 309.6 | 310.2 | 310.8 |
| 45° | 288.6 | 290.6 | 292.7 | 294.1 | 294.9 | 295.7 | 296.6 | 297.4 |
| 47.5° | 273.8 | 276.1 | 278.3 | 279.7 | 280.3 | 281.0 | 281.7 | 282.4 |
| 50° | 263.6 | 266.0 | 268.4 | 270.0 | 270.7 | 271.5 | 272.2 | 273.0 |
| 52.5° | 253.3 | 255.7 | 258.2 | 259.9 | 260.8 | 261.8 | 262.6 | 263.5 |
| 55° | 237.6 | 240.4 | 243.3 | 245.1 | 245.9 | 246.8 | 247.6 | 248.4 |
| 57.5° | 221.7 | 224.5 | 227.3 | 229.2 | 230.2 | 231.3 | 232.3 | 233.2 |
| 60° | 210.6 | 213.5 | 216.4 | 218.4 | 219.5 | 220.8 | 221.9 | 223.1 |
| 62.5° | 200.0 | 202.9 | 205.8 | 207.8 | 208.9 | 210.0 | 211.1 | 212.2 |
| 65° | 183.2 | 186.3 | 189.5 | 191.6 | 192.6 | 193.7 | 194.7 | 195.7 |
| 67.5° | 166.4 | 169.9 | 173.3 | 175.5 | 176.3 | 177.2 | 178.1 | 178.9 |
| 70° | 155.4 | 158.8 | 162.1 | 164.3 | 165.3 | 166.3 | 167.4 | 168.4 |
| 72.5° | 144.2 | 147.6 | 151.1 | 153.4 | 154.4 | 155.4 | 156.5 | 157.5 |
| 75° | 127.3 | 130.8 | 134.3 | 136.6 | 137.8 | 139.2 | 140.4 | 141.7 |
| 77.5° | 111.6 | 115.2 | 118.9 | 121.1 | 122.1 | 123.1 | 124.0 | 125.0 |
| 80° | 101.2 | 104.8 | 108.4 | 110.6 | 111.7 | 112.7 | 113.8 | 114.8 |
| 82.5° | 91.8 | 95.3 | 99.0 | 101.2 | 102.3 | 103.3 | 104.3 | 105.4 |
| 85° | 78.7 | 82.2 | 85.7 | 88.1 | 89.1 | 90.2 | 91.2 | 92.2 |
| 87.5° | 69.4 | 73.0 | 76.6 | 79.1 | 80.2 | 81.2 | 82.3 | 83.4 |
| 90° | 72.1 | 76.0 | 80.0 | 82.6 | 83.8 | 85.1 | 86.3 | 87.6 |
| 92.5° | 75.3 | 79.2 | 82.9 | 85.2 | 86.0 | 86.9 | 87.8 | 88.6 |
| 95° | 87.8 | 91.4 | 95.0 | 97.4 | 98.5 | 99.5 | 100.5 | 101.6 |
| 97.5° | 103.3 | 106.9 | 110.5 | 112.8 | 113.8 | 114.8 | 115.8 | 116.8 |
| 100° | 114.9 | 118.3 | 121.6 | 123.8 | 125.1 | 126.3 | 127.6 | 128.9 |
| 102.5° | 128.6 | 131.8 | 135.1 | 137.2 | 138.3 | 139.3 | 140.3 | 141.2 |
| 105° | 149.2 | 152.1 | 155.0 | 157.0 | 158.1 | 159.4 | 160.5 | 161.6 |
| 107.5° | 171.6 | 174.7 | 177.8 | 179.9 | 180.7 | 181.5 | 182.2 | 183.0 |
| 110° | 186.9 | 190.1 | 193.2 | 195.1 | 195.7 | 196.3 | 196.9 | 197.6 |



TEST NUMBER: P332093-840

CATALOG NUMBER: S123DIW-S340D460U840-4F0-1E-UDD-D1

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 201.9 | 205.0 | 208.1 | 210.2 | 211.0 | 211.9 | 212.8 | 213.7 |
| 115° | 225.1 | 227.7 | 230.4 | 232.0 | 232.8 | 233.5 | 234.2 | 235.0 |
| 117.5° | 248.4 | 251.0 | 253.4 | 254.9 | 255.4 | 255.9 | 256.5 | 257.0 |
| 120° | 264.2 | 266.5 | 268.8 | 270.2 | 270.7 | 271.2 | 271.8 | 272.4 |
| 122.5° | 280.1 | 282.2 | 284.2 | 285.5 | 285.9 | 286.4 | 286.8 | 287.3 |
| 125° | 303.8 | 305.6 | 307.3 | 308.4 | 308.7 | 309.0 | 309.3 | 309.7 |
| 127.5° | 327.1 | 328.6 | 330.1 | 330.9 | 331.2 | 331.4 | 331.6 | 331.9 |
| 130° | 342.5 | 344.2 | 345.7 | 346.5 | 346.4 | 346.3 | 346.2 | 346.1 |
| 132.5° | 357.6 | 359.0 | 360.4 | 361.1 | 361.3 | 361.5 | 361.6 | 361.8 |
| 135° | 380.2 | 381.7 | 383.1 | 384.1 | 384.4 | 384.7 | 385.0 | 385.4 |
| 137.5° | 402.4 | 403.6 | 404.9 | 405.6 | 405.7 | 405.9 | 406.0 | 406.1 |
| 140° | 417.2 | 418.6 | 420.1 | 420.7 | 420.5 | 420.3 | 420.2 | 420.0 |
| 142.5° | 430.7 | 432.0 | 433.3 | 433.9 | 433.9 | 433.8 | 433.8 | 433.8 |
| 145° | 451.8 | 452.5 | 453.2 | 453.6 | 453.6 | 453.6 | 453.6 | 453.6 |
| 147.5° | 472.0 | 472.2 | 472.5 | 472.5 | 472.2 | 472.0 | 471.8 | 471.5 |
| 150° | 484.6 | 484.6 | 484.6 | 484.4 | 484.0 | 483.6 | 483.2 | 482.8 |
| 152.5° | 496.7 | 496.9 | 497.1 | 496.9 | 496.3 | 495.8 | 495.3 | 494.9 |
| 155° | 514.3 | 514.7 | 515.1 | 514.9 | 514.2 | 513.5 | 512.8 | 512.1 |
| 157.5° | 529.5 | 529.9 | 530.3 | 530.2 | 529.7 | 529.1 | 528.5 | 528.0 |
| 160° | 538.8 | 539.3 | 539.8 | 539.8 | 539.4 | 539.0 | 538.6 | 538.2 |
| 162.5° | 547.5 | 548.1 | 548.6 | 548.5 | 547.9 | 547.1 | 546.5 | 545.8 |
| 165° | 558.7 | 559.3 | 559.9 | 559.8 | 559.1 | 558.4 | 557.6 | 556.9 |
| 167.5° | 567.6 | 568.3 | 568.9 | 568.9 | 568.3 | 567.6 | 567.0 | 566.3 |
| 170° | 572.6 | 573.3 | 574.0 | 574.0 | 573.3 | 572.6 | 571.9 | 571.2 |
| 172.5° | 576.4 | 577.0 | 577.6 | 577.6 | 576.9 | 576.2 | 575.5 | 574.8 |
| 175° | 580.6 | 581.2 | 581.8 | 581.8 | 581.1 | 580.4 | 579.7 | 579.0 |
| 177.5° | 582.5 | 583.0 | 583.4 | 583.4 | 582.8 | 582.3 | 581.7 | 581.1 |
| 180° | 582.6 | 582.6 | 582.6 | 582.6 | 582.6 | 582.6 | 582.6 | 582.6 |

(END OF REPORT)