

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: P332119-840

Luminaire Tested: **S123DIW-S340D1535U840-4F0-1E-UDD-F1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332119-840
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-S340D1535U840-4F0-1E-UDD-F1
Description: DEFINE 3 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 340 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
UPLIGHT 1535 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6800.8 lumens
Efficiency: N/A
Efficacy: 127.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.18 / 1.31
Luminous Opening: Rectangular (W 0.25' x L: 4' x H: 0')
CIE Type: Semi-Indirect

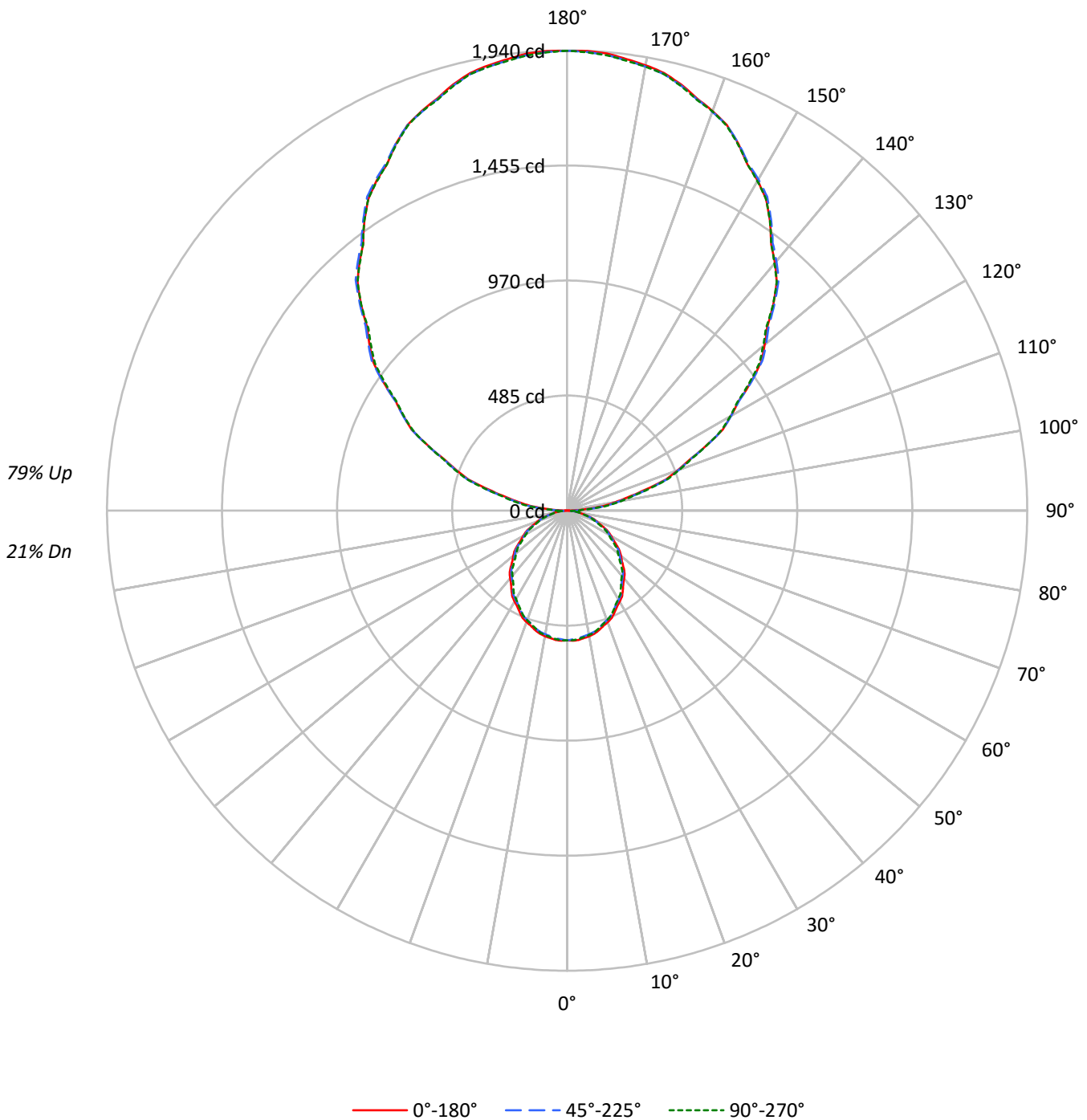
Input Watts (W): 53.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P332119-840

CATALOG NUMBER: S123DIW-S340D1535U840-4F0-1E-UDD-F1

Luminous Intensity Polar Plot





TEST NUMBER: P332119-840

CATALOG NUMBER: S123DIW-S340D1535U840-4F0-1E-UDD-F1

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 | 67 | 67 | 67 | 48 | 48 | 48 | 30 | 30 | 30 | 21 |
| 1 | 91 | 87 | 83 | 80 | 81 | 77 | 74 | 71 | 59 | 57 | 55 | 42 | 40 | 39 | 26 | 25 | 25 | 18 |
| 2 | 83 | 76 | 70 | 65 | 73 | 67 | 63 | 58 | 51 | 48 | 45 | 37 | 35 | 33 | 23 | 22 | 21 | 15 |
| 3 | 76 | 67 | 60 | 54 | 67 | 59 | 53 | 49 | 45 | 41 | 38 | 32 | 30 | 28 | 20 | 19 | 18 | 12 |
| 4 | 69 | 59 | 51 | 46 | 61 | 52 | 46 | 41 | 40 | 36 | 32 | 29 | 26 | 24 | 18 | 16 | 15 | 11 |
| 5 | 63 | 52 | 45 | 39 | 56 | 46 | 40 | 35 | 36 | 31 | 28 | 26 | 23 | 20 | 16 | 14 | 13 | 9 |
| 6 | 58 | 47 | 39 | 33 | 51 | 42 | 35 | 30 | 32 | 27 | 24 | 23 | 20 | 18 | 15 | 13 | 12 | 8 |
| 7 | 54 | 42 | 34 | 29 | 47 | 37 | 31 | 26 | 29 | 24 | 21 | 21 | 18 | 15 | 13 | 12 | 10 | 7 |
| 8 | 50 | 38 | 30 | 25 | 44 | 34 | 27 | 23 | 26 | 22 | 18 | 19 | 16 | 14 | 12 | 10 | 9 | 6 |
| 9 | 46 | 34 | 27 | 22 | 41 | 31 | 25 | 20 | 24 | 19 | 16 | 17 | 14 | 12 | 11 | 9 | 8 | 6 |
| 10 | 43 | 31 | 24 | 20 | 38 | 28 | 22 | 18 | 22 | 17 | 14 | 16 | 13 | 11 | 10 | 9 | 7 | 5 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 5890 | 5890 | 5890 |
| 5° | 5919 | 5837 | 5877 |
| 10° | 5879 | 5786 | 5822 |
| 15° | 5810 | 5721 | 5731 |
| 20° | 5730 | 5628 | 5632 |
| 25° | 5621 | 5516 | 5505 |
| 30° | 5504 | 5392 | 5351 |
| 35° | 5380 | 5261 | 5194 |
| 40° | 5251 | 5117 | 5039 |
| 45° | 5107 | 4985 | 4864 |
| 50° | 4963 | 4823 | 4687 |
| 55° | 4778 | 4654 | 4511 |
| 60° | 4590 | 4456 | 4316 |
| 65° | 4422 | 4241 | 4111 |
| 70° | 4176 | 3997 | 3821 |
| 75° | 3818 | 3681 | 3523 |
| 80° | 3440 | 3298 | 3267 |
| 85° | 3013 | 2902 | 2791 |



TEST NUMBER: P332119-840

CATALOG NUMBER: S123DIW-S340D1535U840-4F0-1E-UDD-F1

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 51.5 | 0.8 |
| 10°-20° | 145.6 | 2.1 |
| 20°-30° | 215.0 | 3.2 |
| 30°-40° | 251.2 | 3.7 |
| 40°-50° | 252.5 | 3.7 |
| 50°-60° | 221.8 | 3.3 |
| 60°-70° | 165.2 | 2.4 |
| 70°-80° | 94.1 | 1.4 |
| 80°-90° | 32.8 | 0.5 |
| 90°-100° | 126.3 | 1.9 |
| 100°-110° | 378.0 | 5.6 |
| 110°-120° | 642.9 | 9.5 |
| 120°-130° | 845.6 | 12.4 |
| 130°-140° | 950.5 | 14.0 |
| 140°-150° | 934.3 | 13.7 |
| 150°-160° | 786.5 | 11.6 |
| 160°-170° | 523.6 | 7.7 |
| 170°-180° | 183.3 | 2.7 |
| 0°-30° | 412.1 | 6.1 |
| 0°-40° | 663.3 | 9.8 |
| 0°-60° | 1137.6 | 16.7 |
| 0°-90° | 1429.7 | 21.0 |
| 90°-120° | 1147.2 | 16.9 |
| 90°-150° | 3877.6 | 57.0 |
| 90°-180° | 5371.0 | 79.0 |
| 0°-180° | 6800.8 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 547 | 547 | 547 | 547 | 547 | |
| 5° | 548 | 545 | 540 | 545 | 544 | 52 |
| 15° | 521 | 519 | 513 | 517 | 514 | 147 |
| 25° | 473 | 470 | 464 | 465 | 464 | 218 |
| 35° | 409 | 406 | 400 | 398 | 395 | 256 |
| 45° | 336 | 333 | 328 | 322 | 320 | 259 |
| 55° | 255 | 254 | 248 | 243 | 240 | 228 |
| 65° | 174 | 171 | 166 | 163 | 161 | 171 |
| 75° | 92 | 90 | 88 | 86 | 85 | 98 |
| 85° | 24 | 24 | 24 | 23 | 23 | 27 |
| 90° | 2 | 17 | 37 | 42 | 46 | 7 |
| 95° | 90 | 101 | 113 | 118 | 119 | 101 |
| 105° | 343 | 346 | 359 | 360 | 362 | 367 |
| 115° | 647 | 651 | 649 | 650 | 649 | 640 |
| 125° | 947 | 951 | 949 | 943 | 936 | 844 |
| 135° | 1229 | 1238 | 1237 | 1231 | 1227 | 947 |
| 145° | 1491 | 1494 | 1498 | 1497 | 1491 | 931 |
| 155° | 1707 | 1707 | 1709 | 1714 | 1704 | 785 |
| 165° | 1859 | 1855 | 1855 | 1863 | 1853 | 524 |
| 175° | 1934 | 1928 | 1928 | 1936 | 1926 | 184 |
| 180° | 1938 | 1938 | 1938 | 1938 | 1938 | |



TEST NUMBER: P332119-840

CATALOG NUMBER: S123DIW-S340D1535U840-4F0-1E-UDD-F1

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 547.2 | 547.2 | 547.2 | 547.2 | 547.2 | 547.2 | 547.2 | 547.2 | 547.2 | 547.2 | 547.2 |
| 2.5° | 549.2 | 548.8 | 548.5 | 548.2 | 547.8 | 547.1 | 546.2 | 545.3 | 544.4 | 543.5 | 544.3 |
| 5° | 547.8 | 547.1 | 546.6 | 546.1 | 545.6 | 544.8 | 543.6 | 542.5 | 541.3 | 540.2 | 541.2 |
| 7.5° | 542.4 | 541.8 | 541.3 | 540.8 | 540.3 | 539.4 | 538.3 | 537.0 | 535.8 | 534.6 | 535.5 |
| 10° | 537.9 | 537.3 | 536.7 | 536.2 | 535.7 | 534.8 | 533.4 | 532.1 | 530.7 | 529.4 | 530.3 |
| 12.5° | 531.8 | 531.4 | 530.9 | 530.5 | 530.1 | 529.2 | 528.0 | 526.6 | 525.3 | 524.1 | 524.8 |
| 15° | 521.4 | 521.0 | 520.5 | 520.1 | 519.7 | 518.8 | 517.5 | 516.0 | 514.7 | 513.4 | 514.2 |
| 17.5° | 509.2 | 508.7 | 508.2 | 507.6 | 507.1 | 506.1 | 504.7 | 503.4 | 502.0 | 500.7 | 501.2 |
| 20° | 500.2 | 499.6 | 499.0 | 498.3 | 497.7 | 496.7 | 495.3 | 493.9 | 492.6 | 491.3 | 491.7 |
| 22.5° | 490.0 | 489.4 | 488.8 | 488.2 | 487.6 | 486.6 | 485.1 | 483.8 | 482.4 | 481.1 | 481.4 |
| 25° | 473.3 | 472.7 | 472.1 | 471.5 | 470.9 | 469.9 | 468.5 | 467.2 | 465.7 | 464.4 | 464.5 |
| 27.5° | 455.6 | 454.9 | 454.3 | 453.7 | 453.1 | 452.1 | 450.7 | 449.2 | 447.8 | 446.3 | 446.4 |
| 30° | 442.8 | 442.2 | 441.7 | 441.2 | 440.7 | 439.7 | 438.3 | 436.8 | 435.4 | 433.8 | 433.8 |
| 32.5° | 430.0 | 429.3 | 428.6 | 427.9 | 427.3 | 426.3 | 425.2 | 424.0 | 422.9 | 421.8 | 421.2 |
| 35° | 409.4 | 408.8 | 408.1 | 407.5 | 406.9 | 405.9 | 404.6 | 403.1 | 401.8 | 400.4 | 399.8 |
| 37.5° | 388.3 | 387.5 | 386.7 | 385.9 | 385.2 | 384.1 | 382.6 | 381.2 | 379.9 | 378.5 | 377.8 |
| 40° | 373.7 | 372.9 | 372.3 | 371.7 | 371.1 | 370.0 | 368.6 | 367.1 | 365.7 | 364.2 | 363.3 |
| 42.5° | 358.9 | 358.2 | 357.5 | 356.8 | 356.1 | 355.0 | 353.6 | 352.0 | 350.6 | 349.1 | 348.3 |
| 45° | 335.5 | 335.1 | 334.7 | 334.3 | 333.9 | 333.0 | 331.5 | 330.2 | 328.8 | 327.5 | 326.3 |
| 47.5° | 312.3 | 311.6 | 311.0 | 310.4 | 309.8 | 308.9 | 307.6 | 306.3 | 305.1 | 303.8 | 302.6 |
| 50° | 296.4 | 295.9 | 295.4 | 294.9 | 294.4 | 293.4 | 292.1 | 290.7 | 289.3 | 288.0 | 286.8 |
| 52.5° | 279.8 | 279.5 | 279.1 | 278.8 | 278.4 | 277.5 | 276.1 | 274.7 | 273.3 | 271.8 | 270.8 |
| 55° | 254.6 | 254.5 | 254.4 | 254.3 | 254.2 | 253.4 | 252.1 | 250.6 | 249.3 | 248.0 | 246.8 |
| 57.5° | 230.5 | 230.1 | 229.7 | 229.4 | 229.0 | 228.3 | 227.2 | 226.1 | 225.1 | 224.0 | 223.0 |
| 60° | 213.2 | 213.1 | 213.0 | 212.9 | 212.8 | 212.1 | 210.8 | 209.5 | 208.3 | 207.0 | 206.1 |
| 62.5° | 197.7 | 197.4 | 197.2 | 196.9 | 196.6 | 195.9 | 194.6 | 193.4 | 192.1 | 190.9 | 190.0 |
| 65° | 173.6 | 173.1 | 172.6 | 172.1 | 171.6 | 170.8 | 169.8 | 168.6 | 167.6 | 166.5 | 165.7 |
| 67.5° | 148.1 | 147.6 | 147.2 | 146.7 | 146.3 | 145.6 | 144.9 | 144.1 | 143.3 | 142.5 | 141.8 |
| 70° | 132.7 | 132.1 | 131.5 | 130.8 | 130.2 | 129.6 | 129.0 | 128.3 | 127.6 | 127.0 | 126.3 |
| 72.5° | 116.5 | 116.0 | 115.6 | 115.1 | 114.6 | 114.1 | 113.4 | 112.7 | 112.0 | 111.3 | 110.6 |
| 75° | 91.8 | 91.3 | 90.9 | 90.5 | 90.1 | 89.7 | 89.4 | 89.1 | 88.8 | 88.5 | 88.0 |
| 77.5° | 69.8 | 69.6 | 69.4 | 69.2 | 68.9 | 68.6 | 68.3 | 67.9 | 67.5 | 67.1 | 66.8 |
| 80° | 55.5 | 55.2 | 54.9 | 54.6 | 54.2 | 54.0 | 53.8 | 53.6 | 53.4 | 53.2 | 53.0 |
| 82.5° | 41.6 | 41.5 | 41.5 | 41.4 | 41.3 | 41.3 | 41.2 | 41.2 | 41.2 | 41.1 | 40.9 |
| 85° | 24.4 | 24.2 | 24.0 | 23.8 | 23.6 | 23.5 | 23.5 | 23.5 | 23.5 | 23.5 | 23.3 |
| 87.5° | 10.1 | 10.5 | 10.9 | 11.4 | 11.8 | 12.4 | 13.2 | 14.0 | 14.8 | 15.6 | 15.8 |
| 90° | 1.5 | 4.9 | 8.3 | 11.7 | 15.0 | 19.0 | 23.3 | 27.8 | 32.1 | 36.6 | 37.9 |
| 92.5° | 36.9 | 39.2 | 41.4 | 43.7 | 46.0 | 48.5 | 51.0 | 53.4 | 55.9 | 58.5 | 59.6 |
| 95° | 89.9 | 92.2 | 94.6 | 96.9 | 99.4 | 101.9 | 104.5 | 107.2 | 110.0 | 112.7 | 114.0 |
| 97.5° | 159.6 | 161.4 | 163.1 | 164.9 | 166.6 | 168.4 | 170.5 | 172.4 | 174.4 | 176.3 | 177.9 |
| 100° | 207.1 | 209.1 | 211.2 | 213.2 | 215.2 | 217.1 | 218.7 | 220.5 | 222.2 | 223.9 | 224.9 |
| 102.5° | 262.0 | 263.2 | 264.4 | 265.6 | 266.8 | 268.5 | 270.7 | 273.0 | 275.2 | 277.4 | 278.5 |
| 105° | 342.6 | 343.4 | 344.0 | 344.7 | 345.4 | 347.2 | 350.2 | 353.3 | 356.4 | 359.4 | 359.4 |
| 107.5° | 436.5 | 436.9 | 437.3 | 437.7 | 438.1 | 438.9 | 440.1 | 441.3 | 442.5 | 443.7 | 444.8 |
| 110° | 494.9 | 495.6 | 496.2 | 497.0 | 497.7 | 498.3 | 499.0 | 499.7 | 500.3 | 501.0 | 502.4 |



TEST NUMBER: P332119-840

CATALOG NUMBER: S123DIW-S340D1535U840-4F0-1E-UDD-F1

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 555.8 | 556.2 | 556.6 | 557.0 | 557.4 | 557.7 | 557.8 | 558.0 | 558.2 | 558.3 | 559.9 |
| 115° | 647.2 | 648.2 | 649.2 | 650.3 | 651.3 | 651.5 | 650.8 | 650.1 | 649.4 | 648.7 | 649.0 |
| 117.5° | 739.2 | 739.8 | 740.5 | 741.2 | 741.8 | 741.7 | 740.9 | 740.0 | 739.1 | 738.3 | 738.2 |
| 120° | 796.5 | 798.5 | 800.5 | 802.5 | 804.6 | 804.8 | 803.0 | 801.3 | 799.6 | 798.0 | 797.6 |
| 122.5° | 856.2 | 857.6 | 859.1 | 860.6 | 862.1 | 862.4 | 861.5 | 860.6 | 859.8 | 858.9 | 858.0 |
| 125° | 947.2 | 948.2 | 949.3 | 950.3 | 951.3 | 951.4 | 950.8 | 950.1 | 949.4 | 948.8 | 947.4 |
| 127.5° | 1031.3 | 1033.4 | 1035.6 | 1037.7 | 1040.0 | 1040.7 | 1039.9 | 1039.2 | 1038.4 | 1037.6 | 1035.7 |
| 130° | 1087.3 | 1090.0 | 1092.7 | 1095.4 | 1098.1 | 1098.9 | 1097.9 | 1096.9 | 1095.9 | 1094.9 | 1093.6 |
| 132.5° | 1143.4 | 1146.0 | 1148.7 | 1151.4 | 1154.2 | 1155.2 | 1154.4 | 1153.7 | 1152.9 | 1152.2 | 1150.5 |
| 135° | 1228.9 | 1230.9 | 1232.9 | 1235.0 | 1237.1 | 1237.9 | 1237.6 | 1237.2 | 1236.9 | 1236.6 | 1235.2 |
| 137.5° | 1308.1 | 1309.8 | 1311.5 | 1313.2 | 1314.8 | 1316.2 | 1317.1 | 1317.9 | 1318.8 | 1319.7 | 1318.3 |
| 140° | 1362.9 | 1364.6 | 1366.3 | 1368.0 | 1369.7 | 1370.7 | 1371.1 | 1371.4 | 1371.7 | 1372.1 | 1371.7 |
| 142.5° | 1412.9 | 1414.5 | 1416.2 | 1418.0 | 1419.7 | 1420.8 | 1421.4 | 1422.0 | 1422.6 | 1423.2 | 1422.9 |
| 145° | 1490.9 | 1491.6 | 1492.2 | 1492.9 | 1493.6 | 1494.4 | 1495.4 | 1496.4 | 1497.4 | 1498.4 | 1498.1 |
| 147.5° | 1559.0 | 1560.2 | 1561.5 | 1562.8 | 1564.0 | 1565.0 | 1566.0 | 1566.9 | 1567.8 | 1568.8 | 1568.8 |
| 150° | 1606.6 | 1607.3 | 1607.9 | 1608.6 | 1609.3 | 1609.9 | 1610.6 | 1611.3 | 1611.9 | 1612.7 | 1612.7 |
| 152.5° | 1645.6 | 1646.5 | 1647.5 | 1648.4 | 1649.3 | 1650.0 | 1650.4 | 1650.8 | 1651.2 | 1651.6 | 1652.2 |
| 155° | 1707.1 | 1707.1 | 1707.1 | 1707.1 | 1707.1 | 1707.3 | 1707.6 | 1707.9 | 1708.3 | 1708.6 | 1710.0 |
| 157.5° | 1759.5 | 1759.1 | 1758.7 | 1758.3 | 1757.9 | 1757.8 | 1758.1 | 1758.3 | 1758.6 | 1758.9 | 1760.3 |
| 160° | 1792.4 | 1791.7 | 1791.0 | 1790.3 | 1789.7 | 1789.3 | 1789.3 | 1789.3 | 1789.3 | 1789.3 | 1791.0 |
| 162.5° | 1821.6 | 1820.7 | 1819.7 | 1818.8 | 1817.9 | 1817.5 | 1817.8 | 1818.1 | 1818.3 | 1818.6 | 1820.3 |
| 165° | 1859.4 | 1858.4 | 1857.3 | 1856.3 | 1855.3 | 1854.8 | 1854.8 | 1854.8 | 1854.8 | 1854.8 | 1856.8 |
| 167.5° | 1889.6 | 1888.1 | 1886.8 | 1885.4 | 1884.1 | 1883.6 | 1883.8 | 1884.1 | 1884.4 | 1884.6 | 1886.7 |
| 170° | 1906.5 | 1905.2 | 1903.9 | 1902.5 | 1901.2 | 1900.5 | 1900.5 | 1900.5 | 1900.5 | 1900.5 | 1902.9 |
| 172.5° | 1920.0 | 1918.6 | 1917.2 | 1915.9 | 1914.6 | 1913.9 | 1913.9 | 1913.9 | 1913.9 | 1913.9 | 1916.0 |
| 175° | 1934.0 | 1932.7 | 1931.3 | 1930.0 | 1928.5 | 1927.9 | 1927.9 | 1927.9 | 1927.9 | 1927.9 | 1930.0 |
| 177.5° | 1939.7 | 1938.7 | 1937.6 | 1936.5 | 1935.4 | 1934.9 | 1934.9 | 1934.9 | 1934.9 | 1934.9 | 1936.5 |
| 180° | 1938.5 | 1938.5 | 1938.5 | 1938.5 | 1938.5 | 1938.5 | 1938.5 | 1938.5 | 1938.5 | 1938.5 | 1938.5 |



TEST NUMBER: P332119-840

CATALOG NUMBER: S123DIW-S340D1535U840-4F0-1E-UDD-F1

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 547.2 | 547.2 | 547.2 | 547.2 | 547.2 | 547.2 | 547.2 | 547.2 |
| 2.5° | 545.1 | 546.0 | 546.8 | 547.2 | 547.1 | 547.0 | 546.9 | 546.8 |
| 5° | 542.3 | 543.3 | 544.4 | 544.8 | 544.6 | 544.4 | 544.1 | 543.9 |
| 7.5° | 536.5 | 537.5 | 538.4 | 538.8 | 538.7 | 538.6 | 538.5 | 538.3 |
| 10° | 531.3 | 532.2 | 533.1 | 533.5 | 533.3 | 533.1 | 532.9 | 532.7 |
| 12.5° | 525.4 | 526.1 | 526.8 | 527.1 | 527.0 | 526.8 | 526.7 | 526.6 |
| 15° | 515.0 | 515.8 | 516.7 | 516.8 | 516.1 | 515.5 | 514.9 | 514.3 |
| 17.5° | 501.8 | 502.4 | 503.0 | 503.2 | 502.9 | 502.7 | 502.5 | 502.3 |
| 20° | 492.1 | 492.5 | 492.9 | 493.0 | 492.6 | 492.3 | 492.0 | 491.7 |
| 22.5° | 481.7 | 482.1 | 482.4 | 482.4 | 482.0 | 481.6 | 481.2 | 480.8 |
| 25° | 464.6 | 464.7 | 464.8 | 464.7 | 464.4 | 464.1 | 463.8 | 463.5 |
| 27.5° | 446.5 | 446.6 | 446.6 | 446.5 | 446.1 | 445.7 | 445.2 | 444.8 |
| 30° | 433.8 | 433.8 | 433.8 | 433.4 | 432.7 | 432.0 | 431.3 | 430.5 |
| 32.5° | 420.6 | 420.0 | 419.5 | 419.0 | 418.6 | 418.2 | 417.8 | 417.4 |
| 35° | 399.2 | 398.6 | 397.9 | 397.4 | 396.9 | 396.3 | 395.8 | 395.3 |
| 37.5° | 377.0 | 376.3 | 375.5 | 375.0 | 374.7 | 374.3 | 374.0 | 373.7 |
| 40° | 362.5 | 361.7 | 360.8 | 360.2 | 359.8 | 359.4 | 359.0 | 358.6 |
| 42.5° | 347.5 | 346.6 | 345.8 | 345.2 | 344.8 | 344.4 | 344.0 | 343.5 |
| 45° | 325.0 | 323.8 | 322.4 | 321.6 | 321.0 | 320.5 | 320.0 | 319.5 |
| 47.5° | 301.3 | 300.1 | 298.8 | 298.0 | 297.5 | 297.1 | 296.6 | 296.2 |
| 50° | 285.7 | 284.5 | 283.4 | 282.5 | 281.9 | 281.2 | 280.6 | 279.9 |
| 52.5° | 269.8 | 268.8 | 267.8 | 267.0 | 266.4 | 265.8 | 265.2 | 264.6 |
| 55° | 245.7 | 244.5 | 243.4 | 242.6 | 242.1 | 241.5 | 241.0 | 240.4 |
| 57.5° | 222.0 | 220.9 | 219.8 | 219.0 | 218.4 | 217.8 | 217.2 | 216.6 |
| 60° | 205.2 | 204.2 | 203.3 | 202.6 | 202.0 | 201.5 | 201.0 | 200.5 |
| 62.5° | 188.9 | 188.0 | 187.1 | 186.4 | 186.1 | 185.7 | 185.4 | 185.0 |
| 65° | 164.9 | 164.1 | 163.2 | 162.7 | 162.4 | 162.0 | 161.7 | 161.4 |
| 67.5° | 141.0 | 140.3 | 139.6 | 139.0 | 138.6 | 138.0 | 137.6 | 137.2 |
| 70° | 125.6 | 124.8 | 124.1 | 123.5 | 123.0 | 122.5 | 121.9 | 121.4 |
| 72.5° | 110.0 | 109.3 | 108.7 | 108.2 | 108.0 | 107.7 | 107.3 | 107.0 |
| 75° | 87.5 | 86.8 | 86.3 | 85.9 | 85.6 | 85.3 | 85.0 | 84.7 |
| 77.5° | 66.3 | 66.0 | 65.6 | 65.5 | 65.5 | 65.5 | 65.5 | 65.5 |
| 80° | 52.9 | 52.8 | 52.7 | 52.7 | 52.7 | 52.7 | 52.7 | 52.7 |
| 82.5° | 40.8 | 40.6 | 40.4 | 40.2 | 40.2 | 40.1 | 40.0 | 39.9 |
| 85° | 23.1 | 22.9 | 22.7 | 22.6 | 22.6 | 22.6 | 22.6 | 22.6 |
| 87.5° | 16.0 | 16.2 | 16.4 | 16.5 | 16.7 | 16.8 | 16.9 | 17.1 |
| 90° | 39.3 | 40.6 | 42.0 | 43.0 | 43.6 | 44.3 | 45.0 | 45.6 |
| 92.5° | 60.6 | 61.7 | 62.8 | 63.1 | 62.7 | 62.3 | 61.9 | 61.5 |
| 95° | 115.4 | 116.7 | 118.1 | 118.8 | 118.8 | 118.8 | 118.8 | 118.8 |
| 97.5° | 179.5 | 181.0 | 182.6 | 183.3 | 183.2 | 183.0 | 182.9 | 182.8 |
| 100° | 225.9 | 226.9 | 227.9 | 228.7 | 229.4 | 230.1 | 230.8 | 231.5 |
| 102.5° | 279.5 | 280.5 | 281.6 | 282.0 | 281.9 | 281.7 | 281.6 | 281.4 |
| 105° | 359.4 | 359.4 | 359.4 | 359.7 | 360.4 | 361.1 | 361.7 | 362.4 |
| 107.5° | 446.0 | 447.0 | 448.1 | 448.4 | 448.0 | 447.6 | 447.2 | 446.8 |
| 110° | 503.7 | 505.0 | 506.4 | 506.8 | 506.0 | 505.4 | 504.7 | 504.0 |



TEST NUMBER: P332119-840

CATALOG NUMBER: S123DIW-S340D1535U840-4F0-1E-UDD-F1

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 561.5 | 563.1 | 564.7 | 565.5 | 565.4 | 565.2 | 565.1 | 564.9 |
| 115° | 649.4 | 649.7 | 650.1 | 650.1 | 649.7 | 649.4 | 649.0 | 648.7 |
| 117.5° | 738.1 | 738.1 | 738.0 | 737.5 | 736.5 | 735.6 | 734.7 | 733.7 |
| 120° | 797.3 | 797.0 | 796.6 | 796.1 | 795.5 | 794.8 | 794.1 | 793.3 |
| 122.5° | 857.1 | 856.3 | 855.4 | 854.4 | 853.5 | 852.5 | 851.6 | 850.6 |
| 125° | 946.0 | 944.6 | 943.3 | 941.9 | 940.6 | 939.3 | 937.9 | 936.5 |
| 127.5° | 1033.9 | 1032.0 | 1030.1 | 1028.3 | 1026.8 | 1025.2 | 1023.7 | 1022.1 |
| 130° | 1092.2 | 1090.9 | 1089.5 | 1087.6 | 1085.3 | 1082.9 | 1080.6 | 1078.1 |
| 132.5° | 1148.9 | 1147.3 | 1145.7 | 1144.0 | 1142.2 | 1140.3 | 1138.4 | 1136.6 |
| 135° | 1233.9 | 1232.4 | 1231.1 | 1230.1 | 1229.4 | 1228.7 | 1228.1 | 1227.4 |
| 137.5° | 1316.9 | 1315.5 | 1314.0 | 1312.6 | 1311.3 | 1310.1 | 1308.8 | 1307.5 |
| 140° | 1371.4 | 1371.1 | 1370.7 | 1369.4 | 1367.0 | 1364.6 | 1362.2 | 1359.9 |
| 142.5° | 1422.6 | 1422.2 | 1421.9 | 1420.8 | 1419.0 | 1417.1 | 1415.3 | 1413.5 |
| 145° | 1497.7 | 1497.4 | 1497.1 | 1496.2 | 1494.9 | 1493.6 | 1492.2 | 1490.9 |
| 147.5° | 1568.8 | 1568.8 | 1568.8 | 1567.8 | 1565.8 | 1563.8 | 1561.7 | 1559.6 |
| 150° | 1612.7 | 1612.7 | 1612.7 | 1611.6 | 1609.6 | 1607.6 | 1605.6 | 1603.6 |
| 152.5° | 1652.7 | 1653.3 | 1653.9 | 1653.3 | 1651.4 | 1649.7 | 1647.9 | 1646.2 |
| 155° | 1711.3 | 1712.6 | 1714.0 | 1713.5 | 1711.1 | 1708.8 | 1706.4 | 1704.0 |
| 157.5° | 1761.7 | 1763.1 | 1764.5 | 1764.3 | 1762.4 | 1760.5 | 1758.6 | 1756.8 |
| 160° | 1792.7 | 1794.4 | 1796.0 | 1796.2 | 1794.9 | 1793.5 | 1792.2 | 1790.8 |
| 162.5° | 1821.9 | 1823.6 | 1825.3 | 1825.1 | 1822.9 | 1820.8 | 1818.6 | 1816.4 |
| 165° | 1858.9 | 1860.9 | 1862.9 | 1862.8 | 1860.4 | 1858.1 | 1855.6 | 1853.3 |
| 167.5° | 1888.9 | 1891.0 | 1893.0 | 1893.0 | 1891.0 | 1888.9 | 1886.7 | 1884.6 |
| 170° | 1905.2 | 1907.6 | 1910.0 | 1910.0 | 1907.6 | 1905.2 | 1902.9 | 1900.5 |
| 172.5° | 1918.0 | 1920.2 | 1922.3 | 1922.2 | 1919.8 | 1917.4 | 1915.0 | 1912.7 |
| 175° | 1932.0 | 1934.0 | 1936.0 | 1935.8 | 1933.5 | 1931.1 | 1928.7 | 1926.4 |
| 177.5° | 1938.1 | 1939.7 | 1941.4 | 1941.3 | 1939.3 | 1937.4 | 1935.6 | 1933.7 |
| 180° | 1938.5 | 1938.5 | 1938.5 | 1938.5 | 1938.5 | 1938.5 | 1938.5 | 1938.5 |

(END OF REPORT)