

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: P332404-940

Luminaire Tested: **S123RDIW-S340D1320U940-4F0-1E-UDD-F**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332404-940
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-5,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S123RDIW-S340D1320U940-4F0-1E-UDD-F
Description: DEFINE 3 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 340 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER, REGRESSED
HOUSING
UPLIGHT 1320 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5868.0 lumens
Efficiency: N/A
Efficacy: 125.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.06 / 1.22
Luminous Opening: Rectangular (W 0.25' x L: 4' x H: 0')
CIE Type: Semi-Indirect

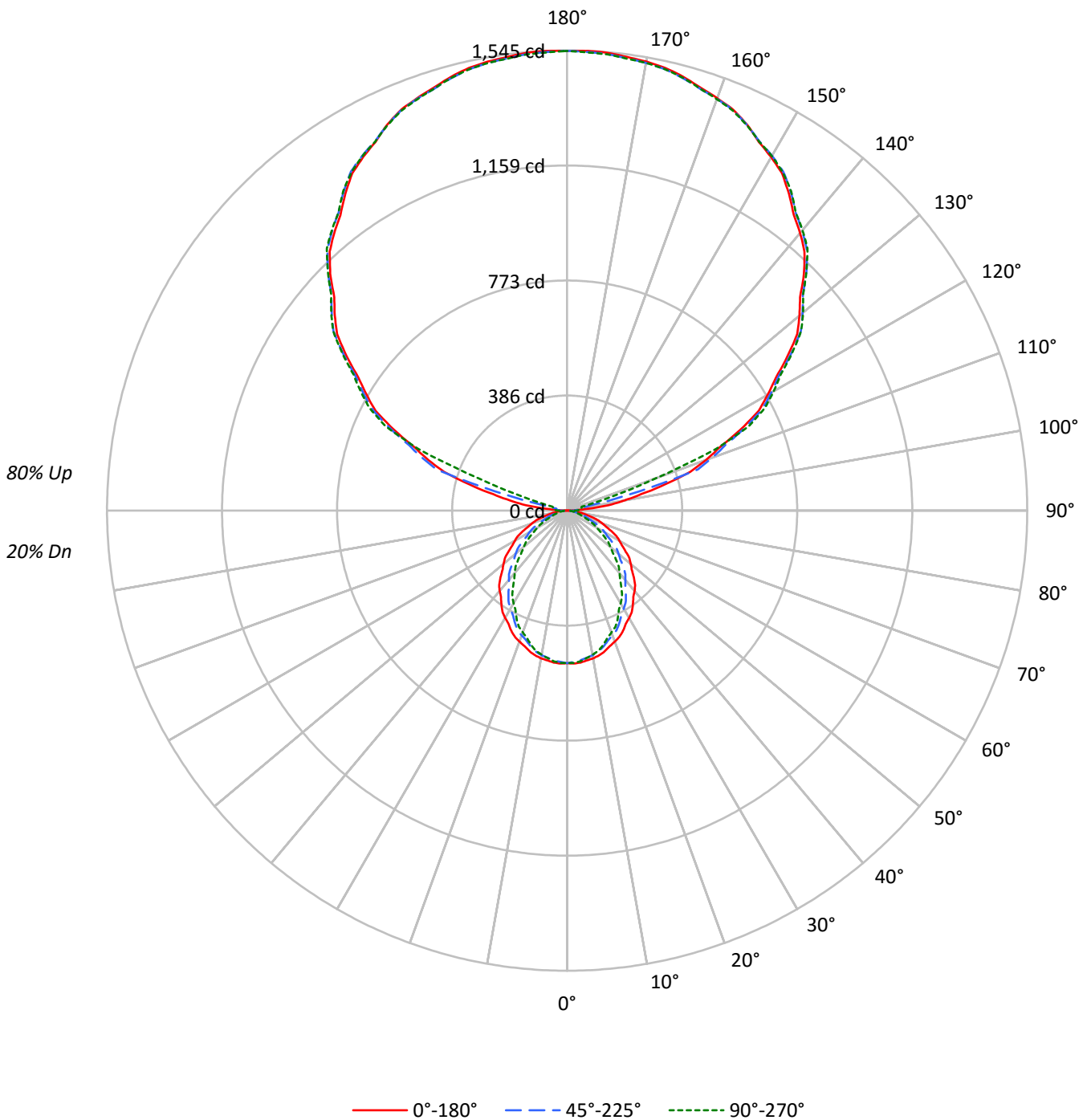
Input Watts (W): 46.6
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P332404-940

CATALOG NUMBER: S123RDIW-S340D1320U940-4F0-1E-UDD-F

Luminous Intensity Polar Plot





TEST NUMBER: P332404-940

CATALOG NUMBER: S123RDIW-S340D1320U940-4F0-1E-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 | 88 | 88 | 88 | 88 | 67 | 67 | 67 | 47 | 47 | 47 | 28 | 28 | 28 | 20 |
| 1 | 91 | 87 | 83 | 80 | 80 | 77 | 74 | 71 | 58 | 56 | 55 | 41 | 40 | 39 | 25 | 25 | 24 | 17 |
| 2 | 83 | 76 | 70 | 66 | 73 | 67 | 63 | 59 | 51 | 48 | 45 | 36 | 34 | 33 | 22 | 21 | 20 | 14 |
| 3 | 76 | 67 | 60 | 55 | 67 | 59 | 54 | 49 | 45 | 41 | 38 | 32 | 30 | 28 | 20 | 19 | 18 | 12 |
| 4 | 69 | 59 | 52 | 46 | 61 | 53 | 46 | 41 | 40 | 36 | 32 | 29 | 26 | 24 | 18 | 16 | 15 | 11 |
| 5 | 63 | 53 | 45 | 39 | 56 | 47 | 40 | 35 | 36 | 31 | 28 | 26 | 23 | 20 | 16 | 14 | 13 | 9 |
| 6 | 58 | 47 | 39 | 34 | 51 | 42 | 35 | 31 | 32 | 28 | 24 | 23 | 20 | 18 | 15 | 13 | 12 | 8 |
| 7 | 54 | 42 | 35 | 29 | 47 | 38 | 31 | 27 | 29 | 24 | 21 | 21 | 18 | 16 | 13 | 12 | 10 | 7 |
| 8 | 50 | 38 | 31 | 26 | 44 | 34 | 28 | 23 | 26 | 22 | 19 | 19 | 16 | 14 | 12 | 11 | 9 | 7 |
| 9 | 46 | 35 | 28 | 23 | 41 | 31 | 25 | 21 | 24 | 20 | 17 | 17 | 15 | 12 | 11 | 10 | 8 | 6 |
| 10 | 43 | 32 | 25 | 20 | 38 | 28 | 22 | 18 | 22 | 18 | 15 | 16 | 13 | 11 | 10 | 9 | 8 | 5 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 5514 | 5514 | 5514 |
| 5° | 5535 | 5459 | 5491 |
| 10° | 5503 | 5391 | 5372 |
| 15° | 5446 | 5264 | 5209 |
| 20° | 5363 | 5108 | 4987 |
| 25° | 5280 | 4930 | 4772 |
| 30° | 5169 | 4724 | 4467 |
| 35° | 5056 | 4520 | 4188 |
| 40° | 4950 | 4279 | 3842 |
| 45° | 4813 | 4042 | 3529 |
| 50° | 4662 | 3771 | 3178 |
| 55° | 4506 | 3462 | 2852 |
| 60° | 4366 | 3130 | 2495 |
| 65° | 4182 | 2774 | 2137 |
| 70° | 3950 | 2326 | 1725 |
| 75° | 3614 | 1834 | 1626 |
| 80° | 3217 | 1624 | 1494 |
| 85° | 2717 | 1433 | 1334 |



TEST NUMBER: P332404-940

CATALOG NUMBER: S123RDIW-S340D1320U940-4F0-1E-UDD-F

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 48.1 | 0.8 |
| 10°-20° | 133.9 | 2.3 |
| 20°-30° | 192.7 | 3.3 |
| 30°-40° | 217.1 | 3.7 |
| 40°-50° | 207.7 | 3.5 |
| 50°-60° | 170.1 | 2.9 |
| 60°-70° | 114.8 | 2.0 |
| 70°-80° | 57.7 | 1.0 |
| 80°-90° | 19.6 | 0.3 |
| 90°-100° | 56.1 | 1.0 |
| 100°-110° | 267.4 | 4.6 |
| 110°-120° | 642.3 | 10.9 |
| 120°-130° | 818.0 | 13.9 |
| 130°-140° | 874.0 | 14.9 |
| 140°-150° | 817.3 | 13.9 |
| 150°-160° | 659.2 | 11.2 |
| 160°-170° | 425.5 | 7.3 |
| 170°-180° | 146.6 | 2.5 |
| 0°-30° | 374.7 | 6.4 |
| 0°-40° | 591.8 | 10.1 |
| 0°-60° | 969.6 | 16.5 |
| 0°-90° | 1161.6 | 19.8 |
| 90°-120° | 965.9 | 16.5 |
| 90°-150° | 3475.0 | 59.2 |
| 90°-180° | 4706.0 | 80.2 |
| 0°-180° | 5868.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 512 | 512 | 512 | 512 | 512 | |
| 5° | 512 | 510 | 505 | 509 | 508 | 49 |
| 15° | 489 | 484 | 472 | 470 | 467 | 138 |
| 25° | 445 | 434 | 415 | 407 | 402 | 204 |
| 35° | 385 | 369 | 344 | 327 | 319 | 241 |
| 45° | 316 | 297 | 266 | 243 | 232 | 244 |
| 55° | 240 | 219 | 184 | 161 | 152 | 215 |
| 65° | 164 | 141 | 109 | 89 | 84 | 162 |
| 75° | 87 | 67 | 44 | 40 | 39 | 93 |
| 85° | 22 | 13 | 12 | 11 | 11 | 25 |
| 90° | 1 | 13 | 28 | 32 | 34 | 4 |
| 95° | 70 | 26 | 36 | 43 | 44 | 86 |
| 105° | 342 | 348 | 251 | 60 | 50 | 362 |
| 115° | 641 | 648 | 658 | 669 | 674 | 632 |
| 125° | 904 | 912 | 917 | 920 | 922 | 807 |
| 135° | 1125 | 1132 | 1136 | 1139 | 1136 | 866 |
| 145° | 1298 | 1306 | 1308 | 1310 | 1310 | 812 |
| 155° | 1430 | 1428 | 1429 | 1434 | 1428 | 658 |
| 165° | 1508 | 1504 | 1503 | 1511 | 1504 | 426 |
| 175° | 1543 | 1538 | 1539 | 1546 | 1538 | 147 |
| 180° | 1543 | 1543 | 1543 | 1543 | 1543 | |



TEST NUMBER: P332404-940

CATALOG NUMBER: S123RDIW-S340D1320U940-4F0-1E-UDD-F

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 512.3 | 512.3 | 512.3 | 512.3 | 512.3 | 512.3 | 512.3 | 512.3 | 512.3 | 512.3 | 512.3 |
| 2.5° | 514.0 | 513.6 | 513.4 | 513.1 | 512.8 | 512.2 | 511.3 | 510.4 | 509.5 | 508.6 | 509.4 |
| 5° | 512.3 | 511.8 | 511.4 | 511.0 | 510.4 | 509.7 | 508.5 | 507.5 | 506.3 | 505.2 | 506.0 |
| 7.5° | 507.6 | 507.0 | 506.6 | 506.0 | 505.6 | 504.6 | 503.2 | 501.8 | 500.2 | 498.8 | 499.3 |
| 10° | 503.5 | 502.9 | 502.3 | 501.7 | 501.0 | 499.8 | 498.2 | 496.5 | 494.8 | 493.2 | 493.3 |
| 12.5° | 497.9 | 497.2 | 496.5 | 495.8 | 495.1 | 493.7 | 491.6 | 489.6 | 487.6 | 485.5 | 485.4 |
| 15° | 488.7 | 487.6 | 486.6 | 485.5 | 484.6 | 482.8 | 480.2 | 477.6 | 475.0 | 472.4 | 472.0 |
| 17.5° | 476.9 | 475.7 | 474.6 | 473.3 | 472.2 | 469.9 | 466.6 | 463.3 | 460.1 | 456.8 | 455.8 |
| 20° | 468.2 | 466.8 | 465.3 | 463.9 | 462.4 | 459.9 | 456.4 | 452.8 | 449.3 | 445.9 | 444.6 |
| 22.5° | 458.6 | 456.9 | 455.2 | 453.5 | 451.8 | 449.2 | 445.4 | 441.7 | 437.9 | 434.2 | 432.7 |
| 25° | 444.6 | 442.3 | 440.0 | 437.7 | 435.3 | 432.0 | 427.8 | 423.6 | 419.3 | 415.1 | 413.1 |
| 27.5° | 427.6 | 425.0 | 422.4 | 419.9 | 417.3 | 413.8 | 409.0 | 404.2 | 399.5 | 394.8 | 392.1 |
| 30° | 415.9 | 413.1 | 410.4 | 407.6 | 404.8 | 400.8 | 395.7 | 390.5 | 385.3 | 380.1 | 377.0 |
| 32.5° | 404.3 | 401.1 | 398.0 | 394.8 | 391.7 | 387.4 | 381.9 | 376.5 | 371.0 | 365.5 | 362.1 |
| 35° | 384.8 | 381.4 | 378.1 | 374.8 | 371.5 | 366.9 | 361.2 | 355.4 | 349.7 | 344.0 | 340.1 |
| 37.5° | 365.0 | 361.2 | 357.6 | 353.9 | 350.2 | 345.3 | 339.2 | 333.1 | 327.0 | 320.8 | 316.4 |
| 40° | 352.3 | 348.3 | 344.2 | 340.2 | 336.1 | 330.7 | 324.2 | 317.6 | 311.1 | 304.5 | 299.8 |
| 42.5° | 338.0 | 333.9 | 329.9 | 325.8 | 321.8 | 316.4 | 309.6 | 302.8 | 296.0 | 289.3 | 284.0 |
| 45° | 316.2 | 312.0 | 307.9 | 303.7 | 299.5 | 293.9 | 286.9 | 279.7 | 272.6 | 265.5 | 260.2 |
| 47.5° | 294.4 | 289.8 | 285.2 | 280.6 | 276.1 | 270.3 | 263.1 | 256.0 | 249.0 | 241.8 | 236.1 |
| 50° | 278.4 | 274.0 | 269.7 | 265.4 | 261.0 | 255.1 | 247.6 | 240.1 | 232.6 | 225.2 | 219.5 |
| 52.5° | 264.1 | 259.4 | 254.7 | 249.9 | 245.2 | 239.2 | 231.8 | 224.4 | 217.0 | 209.6 | 203.7 |
| 55° | 240.1 | 235.6 | 231.1 | 226.6 | 222.0 | 215.9 | 208.0 | 200.2 | 192.3 | 184.5 | 179.1 |
| 57.5° | 218.0 | 213.1 | 208.2 | 203.2 | 198.3 | 191.9 | 184.0 | 176.1 | 168.3 | 160.4 | 155.3 |
| 60° | 202.8 | 197.7 | 192.6 | 187.5 | 182.4 | 176.1 | 168.4 | 160.8 | 153.1 | 145.4 | 140.4 |
| 62.5° | 187.4 | 182.4 | 177.3 | 172.3 | 167.2 | 160.8 | 153.1 | 145.4 | 137.8 | 130.1 | 125.5 |
| 65° | 164.2 | 159.1 | 154.0 | 148.9 | 143.8 | 137.7 | 130.5 | 123.2 | 116.1 | 108.9 | 104.3 |
| 67.5° | 140.8 | 135.6 | 130.5 | 125.4 | 120.2 | 114.2 | 107.3 | 100.4 | 93.5 | 86.6 | 83.2 |
| 70° | 125.5 | 120.5 | 115.5 | 110.5 | 105.6 | 99.8 | 93.4 | 86.9 | 80.4 | 73.9 | 70.7 |
| 72.5° | 110.2 | 105.3 | 100.4 | 95.4 | 90.5 | 85.2 | 79.3 | 73.4 | 67.5 | 61.6 | 59.0 |
| 75° | 86.9 | 82.4 | 77.9 | 73.6 | 69.1 | 64.4 | 59.3 | 54.2 | 49.1 | 44.1 | 43.2 |
| 77.5° | 65.5 | 61.5 | 57.5 | 53.5 | 49.6 | 45.9 | 42.6 | 39.3 | 36.1 | 32.8 | 32.4 |
| 80° | 51.9 | 48.2 | 44.4 | 40.6 | 36.8 | 34.0 | 32.0 | 30.1 | 28.1 | 26.2 | 25.9 |
| 82.5° | 39.0 | 35.7 | 32.5 | 29.2 | 25.9 | 23.8 | 22.9 | 22.0 | 21.1 | 20.2 | 19.9 |
| 85° | 22.0 | 20.0 | 17.9 | 16.0 | 13.9 | 12.8 | 12.5 | 12.2 | 11.9 | 11.6 | 11.4 |
| 87.5° | 8.2 | 7.9 | 7.6 | 7.3 | 7.0 | 7.1 | 7.8 | 8.5 | 9.2 | 9.8 | 10.0 |
| 90° | 1.2 | 3.7 | 6.2 | 8.8 | 11.3 | 14.3 | 17.6 | 20.9 | 24.2 | 27.6 | 28.5 |
| 92.5° | 21.3 | 20.6 | 19.9 | 19.2 | 18.5 | 19.4 | 21.8 | 24.3 | 26.8 | 29.3 | 30.9 |
| 95° | 69.9 | 59.5 | 49.0 | 38.6 | 28.2 | 24.3 | 27.1 | 30.0 | 32.7 | 35.6 | 37.4 |
| 97.5° | 140.5 | 135.9 | 131.2 | 126.5 | 121.8 | 110.3 | 91.9 | 73.7 | 55.3 | 36.9 | 39.0 |
| 100° | 193.8 | 198.9 | 203.9 | 209.0 | 214.2 | 196.8 | 157.1 | 117.3 | 77.6 | 37.8 | 39.9 |
| 102.5° | 254.3 | 258.0 | 261.6 | 265.3 | 269.0 | 249.1 | 205.7 | 162.3 | 118.9 | 75.4 | 69.1 |
| 105° | 341.7 | 344.5 | 347.3 | 350.1 | 352.8 | 342.9 | 319.9 | 296.9 | 274.0 | 251.1 | 206.0 |
| 107.5° | 433.9 | 436.1 | 438.4 | 440.6 | 442.8 | 445.8 | 449.4 | 453.0 | 456.6 | 460.2 | 427.1 |
| 110° | 495.3 | 497.4 | 499.4 | 501.4 | 503.5 | 505.9 | 508.7 | 511.5 | 514.3 | 517.1 | 508.7 |



TEST NUMBER: P332404-940

CATALOG NUMBER: S123RDIW-S340D1320U940-4F0-1E-UDD-F

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 554.0 | 555.9 | 557.7 | 559.5 | 561.3 | 563.7 | 566.5 | 569.3 | 572.1 | 574.9 | 575.1 |
| 115° | 641.0 | 642.5 | 644.0 | 645.5 | 647.0 | 649.0 | 651.2 | 653.5 | 655.9 | 658.2 | 660.7 |
| 117.5° | 725.1 | 727.0 | 728.9 | 730.8 | 732.6 | 734.1 | 735.3 | 736.6 | 737.7 | 738.9 | 740.9 |
| 120° | 777.4 | 779.7 | 781.9 | 784.3 | 786.6 | 788.1 | 788.8 | 789.6 | 790.4 | 791.1 | 793.2 |
| 122.5° | 830.6 | 832.5 | 834.4 | 836.2 | 838.1 | 839.5 | 840.5 | 841.5 | 842.5 | 843.5 | 844.9 |
| 125° | 903.5 | 905.5 | 907.6 | 909.6 | 911.7 | 913.2 | 914.2 | 915.3 | 916.2 | 917.3 | 917.7 |
| 127.5° | 974.1 | 976.2 | 978.2 | 980.3 | 982.3 | 983.9 | 985.2 | 986.4 | 987.6 | 988.8 | 989.6 |
| 130° | 1018.2 | 1020.2 | 1022.3 | 1024.3 | 1026.4 | 1027.9 | 1028.9 | 1029.9 | 1030.9 | 1031.9 | 1033.0 |
| 132.5° | 1060.3 | 1062.4 | 1064.4 | 1066.5 | 1068.5 | 1070.0 | 1070.8 | 1071.6 | 1072.4 | 1073.2 | 1074.2 |
| 135° | 1124.8 | 1126.3 | 1127.8 | 1129.4 | 1131.0 | 1132.2 | 1133.2 | 1134.3 | 1135.2 | 1136.3 | 1137.0 |
| 137.5° | 1179.8 | 1181.8 | 1183.7 | 1185.6 | 1187.6 | 1188.8 | 1189.4 | 1190.0 | 1190.5 | 1191.1 | 1192.3 |
| 140° | 1216.6 | 1218.1 | 1219.6 | 1221.1 | 1222.6 | 1223.8 | 1224.6 | 1225.3 | 1226.1 | 1226.8 | 1227.9 |
| 142.5° | 1250.4 | 1252.0 | 1253.6 | 1255.1 | 1256.6 | 1257.8 | 1258.5 | 1259.3 | 1260.0 | 1260.8 | 1261.6 |
| 145° | 1298.0 | 1299.8 | 1301.5 | 1303.3 | 1305.1 | 1306.2 | 1306.7 | 1307.2 | 1307.8 | 1308.2 | 1308.8 |
| 147.5° | 1342.6 | 1343.8 | 1345.0 | 1346.1 | 1347.4 | 1348.2 | 1348.7 | 1349.2 | 1349.7 | 1350.2 | 1350.8 |
| 150° | 1370.2 | 1370.9 | 1371.7 | 1372.4 | 1373.2 | 1373.9 | 1374.4 | 1374.8 | 1375.4 | 1375.9 | 1376.4 |
| 152.5° | 1394.9 | 1395.3 | 1395.6 | 1396.0 | 1396.3 | 1396.7 | 1397.0 | 1397.3 | 1397.6 | 1397.9 | 1398.8 |
| 155° | 1429.8 | 1429.3 | 1428.8 | 1428.3 | 1427.7 | 1427.6 | 1427.9 | 1428.2 | 1428.4 | 1428.6 | 1429.9 |
| 157.5° | 1456.9 | 1456.8 | 1456.8 | 1456.7 | 1456.6 | 1456.5 | 1456.3 | 1456.0 | 1455.7 | 1455.5 | 1457.0 |
| 160° | 1473.4 | 1473.1 | 1472.8 | 1472.6 | 1472.3 | 1472.1 | 1471.9 | 1471.6 | 1471.3 | 1471.1 | 1472.6 |
| 162.5° | 1489.0 | 1488.3 | 1487.6 | 1486.9 | 1486.3 | 1485.9 | 1485.6 | 1485.3 | 1485.1 | 1484.8 | 1486.6 |
| 165° | 1507.8 | 1507.0 | 1506.2 | 1505.5 | 1504.7 | 1504.2 | 1504.0 | 1503.7 | 1503.4 | 1503.2 | 1505.2 |
| 167.5° | 1522.4 | 1521.4 | 1520.4 | 1519.4 | 1518.3 | 1517.9 | 1517.9 | 1517.9 | 1517.9 | 1517.9 | 1519.9 |
| 170° | 1530.7 | 1529.6 | 1528.7 | 1527.7 | 1526.6 | 1526.1 | 1526.1 | 1526.1 | 1526.1 | 1526.1 | 1528.1 |
| 172.5° | 1536.2 | 1535.0 | 1533.7 | 1532.5 | 1531.3 | 1530.8 | 1531.0 | 1531.2 | 1531.4 | 1531.6 | 1533.7 |
| 175° | 1543.3 | 1542.0 | 1540.8 | 1539.4 | 1538.2 | 1537.7 | 1537.9 | 1538.2 | 1538.5 | 1538.7 | 1540.5 |
| 177.5° | 1545.2 | 1544.1 | 1543.1 | 1542.1 | 1541.1 | 1540.7 | 1540.9 | 1541.1 | 1541.2 | 1541.5 | 1543.1 |
| 180° | 1543.3 | 1543.3 | 1543.3 | 1543.3 | 1543.3 | 1543.3 | 1543.3 | 1543.3 | 1543.3 | 1543.3 | 1543.3 |



TEST NUMBER: P332404-940

CATALOG NUMBER: S123RDIW-S340D1320U940-4F0-1E-UDD-F

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 512.3 | 512.3 | 512.3 | 512.3 | 512.3 | 512.3 | 512.3 | 512.3 |
| 2.5° | 510.2 | 511.0 | 511.9 | 512.2 | 512.1 | 511.9 | 511.8 | 511.7 |
| 5° | 506.9 | 507.7 | 508.5 | 508.9 | 508.7 | 508.5 | 508.4 | 508.2 |
| 7.5° | 499.8 | 500.2 | 500.7 | 500.8 | 500.4 | 500.2 | 499.8 | 499.5 |
| 10° | 493.4 | 493.5 | 493.6 | 493.4 | 492.9 | 492.5 | 492.0 | 491.5 |
| 12.5° | 485.4 | 485.4 | 485.4 | 485.0 | 484.5 | 483.9 | 483.4 | 482.9 |
| 15° | 471.4 | 471.0 | 470.6 | 470.0 | 469.4 | 468.7 | 468.1 | 467.4 |
| 17.5° | 454.9 | 453.9 | 452.9 | 451.9 | 450.9 | 450.0 | 449.1 | 448.1 |
| 20° | 443.4 | 442.2 | 441.0 | 439.9 | 438.7 | 437.7 | 436.6 | 435.4 |
| 22.5° | 431.2 | 429.7 | 428.2 | 427.0 | 425.9 | 424.9 | 423.8 | 422.8 |
| 25° | 411.2 | 409.3 | 407.3 | 405.8 | 404.8 | 403.9 | 402.8 | 401.8 |
| 27.5° | 389.4 | 386.7 | 384.1 | 381.9 | 380.3 | 378.8 | 377.3 | 375.7 |
| 30° | 373.9 | 370.8 | 367.7 | 365.3 | 363.8 | 362.4 | 360.9 | 359.4 |
| 32.5° | 358.6 | 355.3 | 351.8 | 349.3 | 347.8 | 346.3 | 344.6 | 343.1 |
| 35° | 336.1 | 332.1 | 328.1 | 325.3 | 323.7 | 322.0 | 320.3 | 318.7 |
| 37.5° | 311.8 | 307.3 | 302.8 | 299.5 | 297.5 | 295.4 | 293.4 | 291.3 |
| 40° | 295.0 | 290.2 | 285.3 | 281.9 | 279.7 | 277.7 | 275.5 | 273.4 |
| 42.5° | 278.7 | 273.6 | 268.3 | 264.7 | 262.8 | 260.9 | 259.0 | 257.1 |
| 45° | 254.9 | 249.7 | 244.4 | 240.7 | 238.5 | 236.3 | 234.1 | 231.8 |
| 47.5° | 230.3 | 224.6 | 218.9 | 215.1 | 213.1 | 211.2 | 209.1 | 207.1 |
| 50° | 213.7 | 208.0 | 202.3 | 198.4 | 196.3 | 194.1 | 192.0 | 189.8 |
| 52.5° | 197.7 | 191.7 | 185.8 | 181.9 | 179.9 | 178.1 | 176.2 | 174.2 |
| 55° | 173.8 | 168.4 | 163.1 | 159.4 | 157.7 | 155.8 | 153.9 | 152.0 |
| 57.5° | 150.3 | 145.2 | 140.2 | 136.8 | 135.3 | 133.7 | 132.2 | 130.5 |
| 60° | 135.5 | 130.5 | 125.5 | 122.2 | 120.6 | 119.0 | 117.5 | 115.9 |
| 62.5° | 120.7 | 116.1 | 111.4 | 108.2 | 106.6 | 105.0 | 103.3 | 101.7 |
| 65° | 99.8 | 95.3 | 90.8 | 88.0 | 86.9 | 86.0 | 85.0 | 83.9 |
| 67.5° | 79.8 | 76.4 | 73.0 | 70.8 | 69.7 | 68.7 | 67.6 | 66.5 |
| 70° | 67.5 | 64.3 | 61.0 | 58.9 | 57.9 | 56.9 | 55.8 | 54.8 |
| 72.5° | 56.4 | 53.8 | 51.1 | 49.6 | 49.1 | 48.7 | 48.3 | 47.9 |
| 75° | 42.2 | 41.3 | 40.3 | 39.8 | 39.6 | 39.4 | 39.2 | 39.1 |
| 77.5° | 31.8 | 31.3 | 30.9 | 30.5 | 30.3 | 30.1 | 30.0 | 29.8 |
| 80° | 25.6 | 25.3 | 25.1 | 24.9 | 24.6 | 24.4 | 24.3 | 24.1 |
| 82.5° | 19.6 | 19.4 | 19.1 | 18.9 | 18.9 | 18.8 | 18.8 | 18.8 |
| 85° | 11.2 | 11.1 | 10.9 | 10.8 | 10.8 | 10.8 | 10.8 | 10.8 |
| 87.5° | 10.1 | 10.3 | 10.3 | 10.4 | 10.4 | 10.5 | 10.5 | 10.5 |
| 90° | 29.5 | 30.6 | 31.6 | 32.4 | 32.9 | 33.3 | 33.9 | 34.4 |
| 92.5° | 32.6 | 34.2 | 35.8 | 36.8 | 37.2 | 37.5 | 37.7 | 38.1 |
| 95° | 39.1 | 40.9 | 42.7 | 43.6 | 43.6 | 43.6 | 43.6 | 43.6 |
| 97.5° | 41.0 | 43.1 | 45.0 | 46.2 | 46.5 | 46.7 | 47.0 | 47.3 |
| 100° | 41.9 | 44.0 | 46.0 | 47.2 | 47.3 | 47.6 | 47.9 | 48.2 |
| 102.5° | 62.8 | 56.4 | 50.2 | 47.3 | 47.7 | 48.2 | 48.6 | 49.0 |
| 105° | 160.9 | 115.8 | 70.7 | 48.4 | 49.0 | 49.4 | 49.9 | 50.5 |
| 107.5° | 394.1 | 361.1 | 328.0 | 294.4 | 260.5 | 226.4 | 192.4 | 158.5 |
| 110° | 500.2 | 491.9 | 483.5 | 461.0 | 424.6 | 388.2 | 351.8 | 315.3 |



TEST NUMBER: P332404-940

CATALOG NUMBER: S123RDIW-S340D1320U940-4F0-1E-UDD-F

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 575.2 | 575.3 | 575.5 | 571.8 | 564.0 | 556.3 | 548.7 | 541.0 |
| 115° | 663.3 | 665.8 | 668.3 | 670.1 | 671.1 | 672.2 | 673.2 | 674.2 |
| 117.5° | 743.0 | 744.9 | 747.0 | 748.1 | 748.3 | 748.5 | 748.8 | 748.9 |
| 120° | 795.2 | 797.3 | 799.3 | 800.3 | 800.3 | 800.3 | 800.3 | 800.3 |
| 122.5° | 846.3 | 847.7 | 849.2 | 850.0 | 850.2 | 850.3 | 850.6 | 850.8 |
| 125° | 918.3 | 918.8 | 919.3 | 919.8 | 920.3 | 920.9 | 921.3 | 921.9 |
| 127.5° | 990.4 | 991.2 | 992.1 | 992.2 | 991.8 | 991.2 | 990.7 | 990.2 |
| 130° | 1033.9 | 1035.0 | 1036.0 | 1036.3 | 1035.7 | 1035.3 | 1034.7 | 1034.2 |
| 132.5° | 1075.2 | 1076.3 | 1077.3 | 1077.5 | 1076.7 | 1076.0 | 1075.3 | 1074.6 |
| 135° | 1137.8 | 1138.5 | 1139.3 | 1139.3 | 1138.5 | 1137.8 | 1137.0 | 1136.3 |
| 137.5° | 1193.6 | 1194.7 | 1196.0 | 1196.3 | 1195.8 | 1195.3 | 1194.8 | 1194.3 |
| 140° | 1228.9 | 1229.9 | 1230.9 | 1231.2 | 1230.7 | 1230.1 | 1229.7 | 1229.1 |
| 142.5° | 1262.4 | 1263.2 | 1264.1 | 1264.1 | 1263.4 | 1262.7 | 1261.9 | 1261.2 |
| 145° | 1309.3 | 1309.7 | 1310.3 | 1310.5 | 1310.5 | 1310.5 | 1310.5 | 1310.5 |
| 147.5° | 1351.2 | 1351.7 | 1352.3 | 1351.9 | 1350.8 | 1349.6 | 1348.4 | 1347.2 |
| 150° | 1376.9 | 1377.4 | 1378.0 | 1377.8 | 1377.1 | 1376.3 | 1375.6 | 1374.8 |
| 152.5° | 1399.7 | 1400.7 | 1401.6 | 1401.5 | 1400.3 | 1399.1 | 1397.9 | 1396.8 |
| 155° | 1431.2 | 1432.4 | 1433.8 | 1433.6 | 1432.1 | 1430.6 | 1429.1 | 1427.5 |
| 157.5° | 1458.6 | 1460.1 | 1461.6 | 1461.3 | 1459.4 | 1457.4 | 1455.4 | 1453.4 |
| 160° | 1474.1 | 1475.7 | 1477.2 | 1477.0 | 1475.2 | 1473.5 | 1471.7 | 1469.9 |
| 162.5° | 1488.3 | 1490.0 | 1491.7 | 1491.8 | 1490.2 | 1488.7 | 1487.1 | 1485.5 |
| 165° | 1507.3 | 1509.3 | 1511.4 | 1511.4 | 1509.7 | 1507.9 | 1506.1 | 1504.3 |
| 167.5° | 1522.0 | 1523.9 | 1526.0 | 1526.0 | 1523.9 | 1522.0 | 1519.9 | 1517.9 |
| 170° | 1530.2 | 1532.2 | 1534.3 | 1534.3 | 1532.2 | 1530.2 | 1528.1 | 1526.1 |
| 172.5° | 1535.7 | 1537.8 | 1539.8 | 1539.6 | 1537.4 | 1535.2 | 1532.9 | 1530.7 |
| 175° | 1542.3 | 1544.1 | 1545.9 | 1545.7 | 1543.7 | 1541.7 | 1539.6 | 1537.6 |
| 177.5° | 1544.7 | 1546.4 | 1548.0 | 1547.8 | 1545.8 | 1543.7 | 1541.7 | 1539.6 |
| 180° | 1543.3 | 1543.3 | 1543.3 | 1543.3 | 1543.3 | 1543.3 | 1543.3 | 1543.3 |

(END OF REPORT)