

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: P332432-830

Luminaire Tested: **S123RDIW-S775D460U830-4F0-1E-UDD-F**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332432-830
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-S775D460U830-4F0-1E-UDD-F
Description: DEFINE 3 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 775 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER, REGRESSED
HOUSING
UPLIGHT 460 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4488.8 lumens
Efficiency: N/A
Efficacy: 119.1 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-Direct

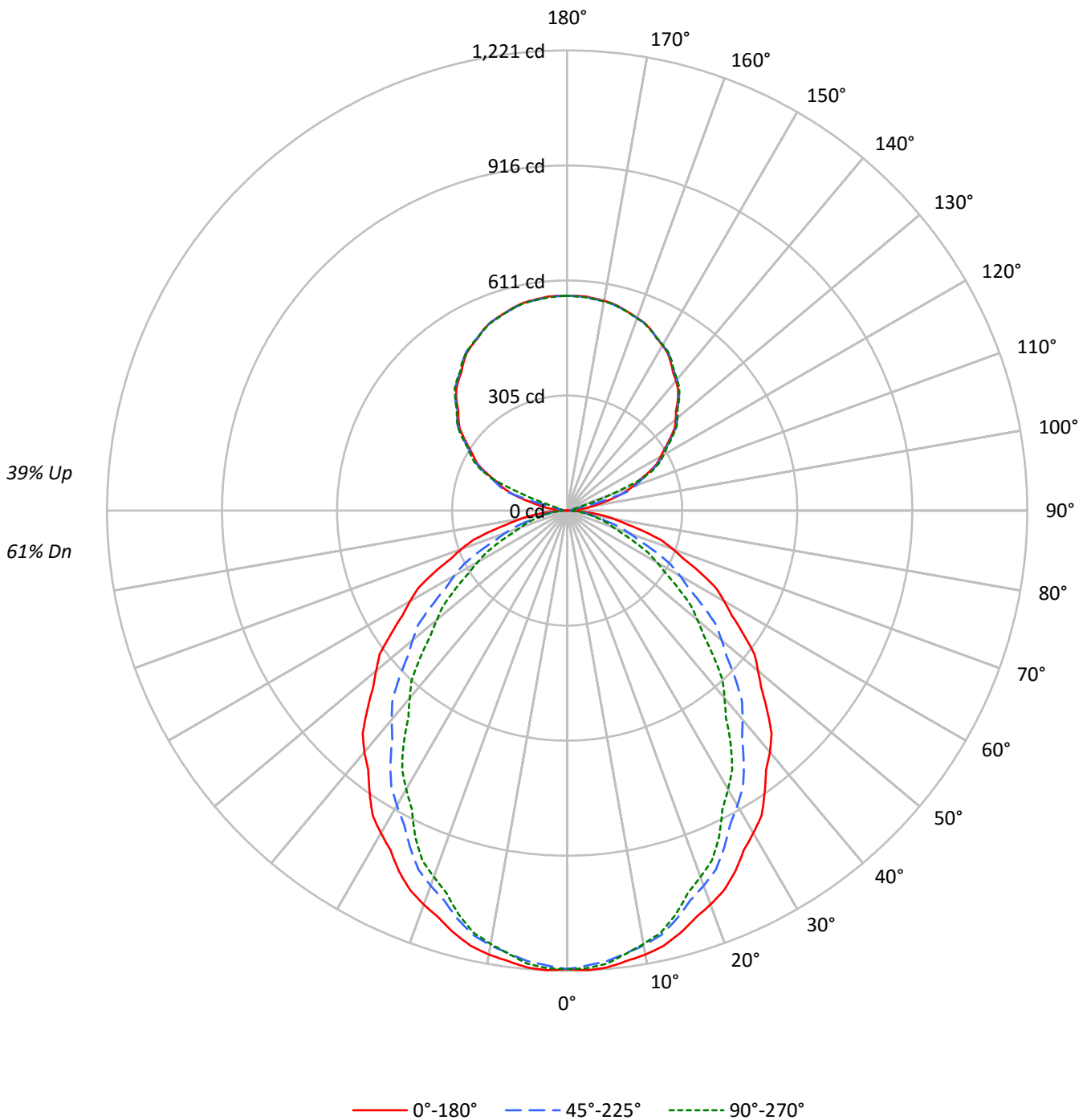
Input Watts (W): 37.7
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P332432-830

CATALOG NUMBER: S123RDIW-S775D460U830-4F0-1E-UDD-F

Luminous Intensity Polar Plot





TEST NUMBER: P332432-830

CATALOG NUMBER: S123RDIW-S775D460U830-4F0-1E-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 | 110 | 110 | 110 | 110 | 103 | 103 | 103 | 103 | 90 | 90 | 90 | 78 | 78 | 78 | 66 | 66 | 66 | 61 |
| 1 | 101 | 96 | 93 | 89 | 94 | 90 | 87 | 84 | 79 | 77 | 75 | 69 | 67 | 65 | 59 | 58 | 57 | 52 |
| 2 | 92 | 85 | 79 | 74 | 86 | 80 | 74 | 70 | 70 | 66 | 62 | 61 | 58 | 55 | 53 | 51 | 49 | 45 |
| 3 | 84 | 75 | 68 | 62 | 79 | 70 | 64 | 59 | 62 | 57 | 53 | 54 | 50 | 47 | 47 | 44 | 42 | 38 |
| 4 | 77 | 67 | 59 | 53 | 72 | 63 | 56 | 50 | 55 | 50 | 45 | 49 | 44 | 41 | 42 | 39 | 36 | 33 |
| 5 | 71 | 60 | 51 | 45 | 66 | 56 | 49 | 43 | 50 | 44 | 39 | 44 | 39 | 36 | 38 | 35 | 32 | 29 |
| 6 | 66 | 54 | 45 | 40 | 61 | 51 | 43 | 38 | 45 | 39 | 35 | 40 | 35 | 31 | 35 | 31 | 28 | 26 |
| 7 | 61 | 49 | 41 | 35 | 57 | 46 | 39 | 34 | 41 | 35 | 31 | 36 | 32 | 28 | 32 | 28 | 25 | 23 |
| 8 | 57 | 44 | 36 | 31 | 53 | 42 | 35 | 30 | 37 | 32 | 27 | 33 | 29 | 25 | 29 | 26 | 23 | 21 |
| 9 | 53 | 41 | 33 | 28 | 49 | 38 | 32 | 27 | 34 | 29 | 25 | 31 | 26 | 23 | 27 | 23 | 21 | 19 |
| 10 | 49 | 37 | 30 | 25 | 46 | 35 | 29 | 24 | 32 | 26 | 22 | 28 | 24 | 21 | 25 | 22 | 19 | 17 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 13099 | 13099 | 13099 |
| 5° | 13149 | 12967 | 13042 |
| 10° | 13074 | 12804 | 12761 |
| 15° | 12933 | 12504 | 12373 |
| 20° | 12741 | 12129 | 11848 |
| 25° | 12542 | 11709 | 11334 |
| 30° | 12279 | 11225 | 10611 |
| 35° | 12009 | 10738 | 9947 |
| 40° | 11760 | 10165 | 9125 |
| 45° | 11432 | 9601 | 8383 |
| 50° | 11072 | 8957 | 7552 |
| 55° | 10704 | 8223 | 6778 |
| 60° | 10368 | 7436 | 5927 |
| 65° | 9928 | 6584 | 5076 |
| 70° | 9379 | 5530 | 4101 |
| 75° | 8576 | 4350 | 3855 |
| 80° | 7649 | 3856 | 3546 |
| 85° | 6459 | 3409 | 3162 |



TEST NUMBER: P332432-830

CATALOG NUMBER: S123RDIW-S775D460U830-4F0-1E-UDD-F

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 114.3 | 2.5 |
| 10°-20° | 317.9 | 7.1 |
| 20°-30° | 457.8 | 10.2 |
| 30°-40° | 515.7 | 11.5 |
| 40°-50° | 493.3 | 11.0 |
| 50°-60° | 404.0 | 9.0 |
| 60°-70° | 272.6 | 6.1 |
| 70°-80° | 137.1 | 3.1 |
| 80°-90° | 37.9 | 0.8 |
| 90°-100° | 20.7 | 0.5 |
| 100°-110° | 98.8 | 2.2 |
| 110°-120° | 237.2 | 5.3 |
| 120°-130° | 302.1 | 6.7 |
| 130°-140° | 322.8 | 7.2 |
| 140°-150° | 301.8 | 6.7 |
| 150°-160° | 243.5 | 5.4 |
| 160°-170° | 157.1 | 3.5 |
| 170°-180° | 54.2 | 1.2 |
| 0°-30° | 890.0 | 19.8 |
| 0°-40° | 1405.7 | 31.3 |
| 0°-60° | 2303.0 | 51.3 |
| 0°-90° | 2750.6 | 61.3 |
| 90°-120° | 356.7 | 7.9 |
| 90°-150° | 1283.4 | 28.6 |
| 90°-180° | 1738.0 | 38.7 |
| 0°-180° | 4488.8 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 1217 | 1217 | 1217 | 1217 | 1217 | |
| 5° | 1217 | 1212 | 1200 | 1208 | 1207 | 115 |
| 15° | 1161 | 1149 | 1122 | 1117 | 1110 | 327 |
| 25° | 1056 | 1030 | 986 | 966 | 954 | 485 |
| 35° | 914 | 877 | 817 | 776 | 757 | 572 |
| 45° | 751 | 705 | 631 | 576 | 551 | 579 |
| 55° | 570 | 520 | 438 | 383 | 361 | 511 |
| 65° | 390 | 334 | 258 | 212 | 199 | 386 |
| 75° | 206 | 159 | 105 | 95 | 93 | 220 |
| 85° | 52 | 32 | 28 | 26 | 26 | 59 |
| 90° | 0 | 5 | 10 | 12 | 13 | 4 |
| 95° | 26 | 10 | 13 | 16 | 16 | 32 |
| 105° | 126 | 128 | 93 | 22 | 19 | 134 |
| 115° | 237 | 239 | 243 | 247 | 249 | 234 |
| 125° | 334 | 337 | 339 | 340 | 340 | 298 |
| 135° | 415 | 418 | 420 | 421 | 420 | 320 |
| 145° | 479 | 482 | 483 | 484 | 484 | 300 |
| 155° | 528 | 527 | 528 | 529 | 527 | 243 |
| 165° | 557 | 556 | 555 | 558 | 556 | 157 |
| 175° | 570 | 568 | 568 | 571 | 568 | 54 |
| 180° | 570 | 570 | 570 | 570 | 570 | |



TEST NUMBER: P332432-830

CATALOG NUMBER: S123RDIW-S775D460U830-4F0-1E-UDD-F

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1216.9 | 1216.9 | 1216.9 | 1216.9 | 1216.9 | 1216.9 | 1216.9 | 1216.9 | 1216.9 | 1216.9 | 1216.9 |
| 2.5° | 1220.8 | 1220.1 | 1219.4 | 1218.7 | 1218.0 | 1216.6 | 1214.5 | 1212.4 | 1210.3 | 1208.2 | 1210.1 |
| 5° | 1216.9 | 1215.8 | 1214.7 | 1213.6 | 1212.5 | 1210.6 | 1208.0 | 1205.3 | 1202.7 | 1200.1 | 1202.0 |
| 7.5° | 1205.6 | 1204.5 | 1203.2 | 1202.0 | 1200.9 | 1198.5 | 1195.1 | 1191.8 | 1188.4 | 1184.9 | 1186.0 |
| 10° | 1196.2 | 1194.6 | 1193.1 | 1191.6 | 1190.0 | 1187.2 | 1183.3 | 1179.4 | 1175.4 | 1171.5 | 1171.7 |
| 12.5° | 1182.7 | 1181.0 | 1179.3 | 1177.6 | 1175.9 | 1172.6 | 1167.8 | 1163.0 | 1158.1 | 1153.3 | 1153.2 |
| 15° | 1160.6 | 1158.2 | 1155.7 | 1153.4 | 1150.9 | 1146.7 | 1140.6 | 1134.4 | 1128.2 | 1122.1 | 1121.1 |
| 17.5° | 1132.7 | 1130.0 | 1127.2 | 1124.4 | 1121.5 | 1116.3 | 1108.4 | 1100.6 | 1092.8 | 1085.1 | 1082.7 |
| 20° | 1112.3 | 1108.7 | 1105.2 | 1101.7 | 1098.3 | 1092.3 | 1083.9 | 1075.6 | 1067.3 | 1058.9 | 1056.1 |
| 22.5° | 1089.4 | 1085.3 | 1081.3 | 1077.2 | 1073.2 | 1066.8 | 1057.9 | 1049.0 | 1040.2 | 1031.3 | 1027.7 |
| 25° | 1056.0 | 1050.6 | 1045.0 | 1039.5 | 1034.1 | 1026.2 | 1016.2 | 1006.1 | 996.0 | 985.9 | 981.3 |
| 27.5° | 1015.5 | 1009.5 | 1003.4 | 997.4 | 991.4 | 982.7 | 971.5 | 960.3 | 949.0 | 937.7 | 931.3 |
| 30° | 987.9 | 981.3 | 974.8 | 968.2 | 961.6 | 952.2 | 939.9 | 927.6 | 915.3 | 903.1 | 895.6 |
| 32.5° | 960.3 | 952.8 | 945.4 | 937.9 | 930.5 | 920.2 | 907.2 | 894.3 | 881.3 | 868.3 | 860.2 |
| 35° | 913.9 | 906.0 | 898.1 | 890.2 | 882.3 | 871.6 | 858.0 | 844.3 | 830.8 | 817.2 | 807.8 |
| 37.5° | 867.0 | 858.1 | 849.3 | 840.6 | 831.8 | 820.2 | 805.7 | 791.2 | 776.7 | 762.1 | 751.4 |
| 40° | 836.9 | 827.3 | 817.6 | 807.9 | 798.3 | 785.7 | 770.2 | 754.6 | 739.0 | 723.4 | 712.0 |
| 42.5° | 803.0 | 793.3 | 783.6 | 774.0 | 764.4 | 751.5 | 735.4 | 719.3 | 703.2 | 687.1 | 674.7 |
| 45° | 751.0 | 741.2 | 731.3 | 721.4 | 711.5 | 698.2 | 681.3 | 664.4 | 647.5 | 630.7 | 618.1 |
| 47.5° | 699.2 | 688.3 | 677.5 | 666.7 | 655.8 | 642.0 | 625.1 | 608.1 | 591.3 | 574.4 | 560.8 |
| 50° | 661.2 | 650.9 | 640.6 | 630.3 | 620.0 | 606.0 | 588.2 | 570.4 | 552.7 | 534.9 | 521.3 |
| 52.5° | 627.3 | 616.1 | 604.9 | 593.7 | 582.6 | 568.2 | 550.5 | 533.0 | 515.4 | 497.8 | 483.7 |
| 55° | 570.4 | 559.7 | 548.9 | 538.2 | 527.4 | 512.7 | 494.1 | 475.5 | 456.9 | 438.2 | 425.5 |
| 57.5° | 517.9 | 506.2 | 494.6 | 482.8 | 471.1 | 455.9 | 437.2 | 418.4 | 399.6 | 381.0 | 368.9 |
| 60° | 481.6 | 469.6 | 457.5 | 445.4 | 433.4 | 418.2 | 400.0 | 381.8 | 363.6 | 345.4 | 333.6 |
| 62.5° | 445.3 | 433.2 | 421.1 | 409.1 | 397.1 | 381.9 | 363.7 | 345.5 | 327.3 | 309.1 | 297.9 |
| 65° | 389.8 | 377.8 | 365.7 | 353.6 | 341.6 | 327.0 | 309.9 | 292.8 | 275.7 | 258.5 | 247.8 |
| 67.5° | 334.4 | 322.2 | 310.0 | 297.7 | 285.6 | 271.3 | 254.9 | 238.5 | 222.1 | 205.7 | 197.7 |
| 70° | 298.0 | 286.3 | 274.4 | 262.5 | 250.7 | 237.0 | 221.7 | 206.4 | 191.1 | 175.7 | 168.0 |
| 72.5° | 261.7 | 250.1 | 238.4 | 226.7 | 215.1 | 202.3 | 188.3 | 174.4 | 160.4 | 146.5 | 140.2 |
| 75° | 206.2 | 195.8 | 185.2 | 174.7 | 164.2 | 152.9 | 140.8 | 128.8 | 116.7 | 104.6 | 102.5 |
| 77.5° | 155.7 | 146.2 | 136.7 | 127.1 | 117.6 | 109.1 | 101.2 | 93.5 | 85.8 | 77.9 | 76.8 |
| 80° | 123.4 | 114.3 | 105.4 | 96.4 | 87.4 | 80.6 | 76.0 | 71.4 | 66.8 | 62.2 | 61.5 |
| 82.5° | 92.6 | 84.8 | 77.0 | 69.3 | 61.5 | 56.6 | 54.4 | 52.2 | 50.1 | 48.0 | 47.3 |
| 85° | 52.3 | 47.5 | 42.7 | 37.8 | 33.0 | 30.3 | 29.6 | 28.9 | 28.3 | 27.6 | 27.2 |
| 87.5° | 19.0 | 17.2 | 15.6 | 13.8 | 12.1 | 11.3 | 11.6 | 11.8 | 12.1 | 12.3 | 12.2 |
| 90° | 0.4 | 1.3 | 2.3 | 3.2 | 4.1 | 5.3 | 6.5 | 7.7 | 9.0 | 10.2 | 10.6 |
| 92.5° | 7.9 | 7.6 | 7.4 | 7.1 | 6.8 | 7.2 | 8.1 | 9.0 | 9.9 | 10.8 | 11.4 |
| 95° | 25.8 | 22.0 | 18.1 | 14.2 | 10.4 | 9.0 | 10.0 | 11.0 | 12.1 | 13.1 | 13.8 |
| 97.5° | 51.9 | 50.1 | 48.4 | 46.8 | 45.0 | 40.7 | 33.9 | 27.1 | 20.5 | 13.7 | 14.4 |
| 100° | 71.5 | 73.4 | 75.3 | 77.2 | 79.1 | 72.7 | 58.1 | 43.4 | 28.7 | 13.9 | 14.7 |
| 102.5° | 93.9 | 95.3 | 96.6 | 98.0 | 99.3 | 92.0 | 76.0 | 59.9 | 43.9 | 27.9 | 25.5 |
| 105° | 126.2 | 127.2 | 128.3 | 129.3 | 130.4 | 126.6 | 118.1 | 109.7 | 101.2 | 92.7 | 76.1 |
| 107.5° | 160.2 | 161.1 | 161.9 | 162.7 | 163.5 | 164.7 | 166.0 | 167.3 | 168.6 | 169.9 | 157.8 |
| 110° | 182.9 | 183.7 | 184.5 | 185.2 | 186.0 | 186.8 | 187.8 | 188.9 | 189.9 | 191.0 | 187.8 |



TEST NUMBER: P332432-830

CATALOG NUMBER: S123RDIW-S775D460U830-4F0-1E-UDD-F

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 204.6 | 205.3 | 205.9 | 206.6 | 207.4 | 208.2 | 209.2 | 210.3 | 211.3 | 212.4 | 212.4 |
| 115° | 236.7 | 237.2 | 237.8 | 238.4 | 238.9 | 239.7 | 240.5 | 241.4 | 242.2 | 243.1 | 244.0 |
| 117.5° | 267.8 | 268.5 | 269.2 | 269.8 | 270.6 | 271.2 | 271.5 | 272.0 | 272.5 | 272.9 | 273.6 |
| 120° | 287.1 | 287.9 | 288.8 | 289.6 | 290.5 | 291.1 | 291.3 | 291.6 | 291.9 | 292.2 | 292.9 |
| 122.5° | 306.8 | 307.5 | 308.1 | 308.9 | 309.5 | 310.1 | 310.5 | 310.8 | 311.1 | 311.5 | 312.0 |
| 125° | 333.7 | 334.4 | 335.2 | 335.9 | 336.7 | 337.2 | 337.6 | 338.0 | 338.4 | 338.7 | 338.9 |
| 127.5° | 359.8 | 360.5 | 361.3 | 362.0 | 362.8 | 363.4 | 363.8 | 364.3 | 364.8 | 365.2 | 365.5 |
| 130° | 376.1 | 376.8 | 377.6 | 378.3 | 379.1 | 379.7 | 380.0 | 380.4 | 380.8 | 381.1 | 381.4 |
| 132.5° | 391.6 | 392.4 | 393.1 | 393.9 | 394.6 | 395.1 | 395.5 | 395.8 | 396.1 | 396.3 | 396.7 |
| 135° | 415.4 | 415.9 | 416.5 | 417.1 | 417.6 | 418.1 | 418.5 | 418.9 | 419.2 | 419.6 | 419.9 |
| 137.5° | 435.7 | 436.5 | 437.2 | 437.9 | 438.6 | 439.0 | 439.3 | 439.5 | 439.7 | 439.9 | 440.4 |
| 140° | 449.3 | 449.9 | 450.4 | 451.0 | 451.6 | 451.9 | 452.2 | 452.5 | 452.8 | 453.1 | 453.5 |
| 142.5° | 461.8 | 462.4 | 463.0 | 463.5 | 464.1 | 464.5 | 464.8 | 465.1 | 465.3 | 465.6 | 465.9 |
| 145° | 479.4 | 480.0 | 480.7 | 481.4 | 482.0 | 482.4 | 482.6 | 482.8 | 483.0 | 483.1 | 483.3 |
| 147.5° | 495.9 | 496.3 | 496.7 | 497.2 | 497.6 | 497.9 | 498.1 | 498.3 | 498.5 | 498.7 | 498.9 |
| 150° | 506.1 | 506.3 | 506.6 | 506.9 | 507.2 | 507.4 | 507.6 | 507.7 | 507.9 | 508.1 | 508.3 |
| 152.5° | 515.2 | 515.3 | 515.5 | 515.6 | 515.8 | 515.9 | 515.9 | 516.0 | 516.1 | 516.3 | 516.6 |
| 155° | 528.0 | 527.8 | 527.6 | 527.5 | 527.4 | 527.3 | 527.4 | 527.4 | 527.5 | 527.6 | 528.1 |
| 157.5° | 538.1 | 538.0 | 538.0 | 538.0 | 538.0 | 537.9 | 537.8 | 537.7 | 537.6 | 537.5 | 538.1 |
| 160° | 544.1 | 544.0 | 543.9 | 543.8 | 543.8 | 543.7 | 543.6 | 543.5 | 543.4 | 543.3 | 543.8 |
| 162.5° | 549.9 | 549.7 | 549.4 | 549.2 | 548.9 | 548.7 | 548.7 | 548.6 | 548.5 | 548.4 | 549.0 |
| 165° | 556.9 | 556.6 | 556.3 | 556.0 | 555.7 | 555.5 | 555.4 | 555.3 | 555.3 | 555.2 | 555.9 |
| 167.5° | 562.3 | 561.9 | 561.6 | 561.2 | 560.8 | 560.6 | 560.6 | 560.6 | 560.6 | 560.6 | 561.4 |
| 170° | 565.3 | 565.0 | 564.6 | 564.2 | 563.8 | 563.6 | 563.6 | 563.6 | 563.6 | 563.6 | 564.4 |
| 172.5° | 567.3 | 566.9 | 566.5 | 566.0 | 565.5 | 565.3 | 565.4 | 565.5 | 565.6 | 565.6 | 566.4 |
| 175° | 570.0 | 569.5 | 569.0 | 568.5 | 568.1 | 567.9 | 568.0 | 568.1 | 568.2 | 568.3 | 568.9 |
| 177.5° | 570.6 | 570.2 | 569.9 | 569.5 | 569.1 | 569.0 | 569.1 | 569.1 | 569.2 | 569.3 | 569.9 |
| 180° | 570.0 | 570.0 | 570.0 | 570.0 | 570.0 | 570.0 | 570.0 | 570.0 | 570.0 | 570.0 | 570.0 |



TEST NUMBER: P332432-830

CATALOG NUMBER: S123RDIW-S775D460U830-4F0-1E-UDD-F

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1216.9 | 1216.9 | 1216.9 | 1216.9 | 1216.9 | 1216.9 | 1216.9 | 1216.9 |
| 2.5° | 1212.0 | 1214.0 | 1215.9 | 1216.7 | 1216.4 | 1216.0 | 1215.6 | 1215.3 |
| 5° | 1204.0 | 1206.0 | 1208.0 | 1208.7 | 1208.3 | 1207.9 | 1207.4 | 1207.0 |
| 7.5° | 1187.1 | 1188.2 | 1189.3 | 1189.5 | 1188.7 | 1188.0 | 1187.2 | 1186.5 |
| 10° | 1172.0 | 1172.1 | 1172.3 | 1172.0 | 1170.8 | 1169.7 | 1168.7 | 1167.5 |
| 12.5° | 1153.0 | 1152.9 | 1152.8 | 1152.1 | 1150.8 | 1149.5 | 1148.3 | 1147.0 |
| 15° | 1119.9 | 1118.8 | 1117.8 | 1116.4 | 1114.9 | 1113.3 | 1111.8 | 1110.3 |
| 17.5° | 1080.3 | 1078.1 | 1075.7 | 1073.5 | 1071.1 | 1068.8 | 1066.6 | 1064.3 |
| 20° | 1053.3 | 1050.4 | 1047.5 | 1044.8 | 1042.2 | 1039.5 | 1036.9 | 1034.3 |
| 22.5° | 1024.3 | 1020.7 | 1017.1 | 1014.1 | 1011.6 | 1009.2 | 1006.7 | 1004.3 |
| 25° | 976.8 | 972.1 | 967.5 | 964.0 | 961.6 | 959.1 | 956.8 | 954.3 |
| 27.5° | 924.9 | 918.6 | 912.2 | 907.1 | 903.4 | 899.8 | 896.1 | 892.4 |
| 30° | 888.2 | 880.6 | 873.2 | 867.7 | 864.2 | 860.7 | 857.1 | 853.7 |
| 32.5° | 852.0 | 843.9 | 835.7 | 829.7 | 826.0 | 822.4 | 818.7 | 815.0 |
| 35° | 798.3 | 788.9 | 779.5 | 772.8 | 768.8 | 764.9 | 760.9 | 757.0 |
| 37.5° | 740.6 | 730.0 | 719.3 | 711.5 | 706.6 | 701.7 | 696.9 | 692.0 |
| 40° | 700.6 | 689.2 | 677.8 | 669.6 | 664.5 | 659.5 | 654.4 | 649.4 |
| 42.5° | 662.1 | 649.7 | 637.3 | 628.8 | 624.2 | 619.7 | 615.2 | 610.7 |
| 45° | 605.7 | 593.1 | 580.6 | 571.7 | 566.5 | 561.2 | 556.0 | 550.7 |
| 47.5° | 547.1 | 533.6 | 520.0 | 510.9 | 506.1 | 501.4 | 496.8 | 492.1 |
| 50° | 507.7 | 494.1 | 480.5 | 471.2 | 466.2 | 461.1 | 456.1 | 451.0 |
| 52.5° | 469.6 | 455.4 | 441.3 | 432.0 | 427.4 | 422.9 | 418.4 | 413.9 |
| 55° | 412.7 | 400.0 | 387.3 | 378.7 | 374.4 | 369.9 | 365.6 | 361.2 |
| 57.5° | 356.9 | 344.9 | 332.9 | 325.0 | 321.3 | 317.5 | 313.8 | 310.1 |
| 60° | 321.7 | 309.9 | 298.0 | 290.3 | 286.5 | 282.8 | 279.1 | 275.3 |
| 62.5° | 286.8 | 275.7 | 264.6 | 257.0 | 253.1 | 249.2 | 245.3 | 241.4 |
| 65° | 237.0 | 226.3 | 215.6 | 209.0 | 206.6 | 204.2 | 201.8 | 199.3 |
| 67.5° | 189.6 | 181.6 | 173.5 | 168.2 | 165.7 | 163.1 | 160.5 | 157.9 |
| 70° | 160.3 | 152.6 | 145.0 | 140.0 | 137.5 | 135.1 | 132.7 | 130.3 |
| 72.5° | 133.9 | 127.6 | 121.4 | 117.7 | 116.7 | 115.7 | 114.7 | 113.7 |
| 75° | 100.2 | 98.0 | 95.9 | 94.5 | 94.1 | 93.7 | 93.2 | 92.7 |
| 77.5° | 75.6 | 74.4 | 73.2 | 72.4 | 72.0 | 71.5 | 71.1 | 70.7 |
| 80° | 60.9 | 60.2 | 59.6 | 59.0 | 58.5 | 58.2 | 57.7 | 57.2 |
| 82.5° | 46.7 | 46.0 | 45.3 | 45.0 | 44.9 | 44.8 | 44.7 | 44.6 |
| 85° | 26.8 | 26.3 | 25.9 | 25.6 | 25.6 | 25.6 | 25.6 | 25.6 |
| 87.5° | 12.1 | 12.0 | 11.9 | 11.8 | 11.6 | 11.5 | 11.4 | 11.2 |
| 90° | 10.9 | 11.3 | 11.7 | 12.0 | 12.2 | 12.3 | 12.5 | 12.7 |
| 92.5° | 12.1 | 12.6 | 13.3 | 13.6 | 13.8 | 13.9 | 13.9 | 14.0 |
| 95° | 14.4 | 15.1 | 15.7 | 16.1 | 16.1 | 16.1 | 16.1 | 16.1 |
| 97.5° | 15.2 | 15.9 | 16.7 | 17.1 | 17.2 | 17.2 | 17.3 | 17.4 |
| 100° | 15.5 | 16.2 | 17.0 | 17.4 | 17.5 | 17.6 | 17.7 | 17.8 |
| 102.5° | 23.2 | 20.8 | 18.6 | 17.4 | 17.6 | 17.8 | 17.9 | 18.1 |
| 105° | 59.4 | 42.8 | 26.1 | 17.9 | 18.1 | 18.3 | 18.5 | 18.7 |
| 107.5° | 145.5 | 133.4 | 121.1 | 108.8 | 96.1 | 83.6 | 71.1 | 58.5 |
| 110° | 184.7 | 181.6 | 178.5 | 170.3 | 156.8 | 143.4 | 129.9 | 116.5 |



TEST NUMBER: P332432-830

CATALOG NUMBER: S123RDIW-S775D460U830-4F0-1E-UDD-F

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 212.4 | 212.4 | 212.5 | 211.1 | 208.3 | 205.5 | 202.6 | 199.8 |
| 115° | 245.0 | 245.9 | 246.9 | 247.5 | 247.9 | 248.3 | 248.6 | 249.0 |
| 117.5° | 274.4 | 275.1 | 275.9 | 276.3 | 276.4 | 276.4 | 276.5 | 276.6 |
| 120° | 293.7 | 294.5 | 295.2 | 295.6 | 295.6 | 295.6 | 295.6 | 295.6 |
| 122.5° | 312.5 | 313.1 | 313.6 | 313.9 | 314.0 | 314.1 | 314.1 | 314.2 |
| 125° | 339.1 | 339.3 | 339.5 | 339.7 | 339.9 | 340.1 | 340.3 | 340.4 |
| 127.5° | 365.8 | 366.1 | 366.4 | 366.5 | 366.3 | 366.1 | 365.9 | 365.7 |
| 130° | 381.8 | 382.2 | 382.6 | 382.7 | 382.5 | 382.3 | 382.1 | 381.9 |
| 132.5° | 397.1 | 397.5 | 397.8 | 397.9 | 397.7 | 397.4 | 397.1 | 396.9 |
| 135° | 420.2 | 420.5 | 420.8 | 420.8 | 420.5 | 420.2 | 419.9 | 419.6 |
| 137.5° | 440.8 | 441.2 | 441.7 | 441.9 | 441.7 | 441.5 | 441.3 | 441.1 |
| 140° | 453.8 | 454.2 | 454.6 | 454.7 | 454.5 | 454.3 | 454.1 | 453.9 |
| 142.5° | 466.3 | 466.6 | 466.8 | 466.8 | 466.6 | 466.4 | 466.1 | 465.8 |
| 145° | 483.5 | 483.7 | 483.9 | 484.0 | 484.0 | 484.0 | 484.0 | 484.0 |
| 147.5° | 499.1 | 499.3 | 499.5 | 499.3 | 498.9 | 498.4 | 498.0 | 497.6 |
| 150° | 508.5 | 508.7 | 508.9 | 508.9 | 508.6 | 508.3 | 508.0 | 507.7 |
| 152.5° | 517.0 | 517.3 | 517.6 | 517.6 | 517.2 | 516.7 | 516.3 | 515.9 |
| 155° | 528.6 | 529.0 | 529.5 | 529.4 | 528.9 | 528.3 | 527.7 | 527.3 |
| 157.5° | 538.7 | 539.2 | 539.8 | 539.7 | 538.9 | 538.3 | 537.5 | 536.8 |
| 160° | 544.4 | 545.0 | 545.5 | 545.5 | 544.9 | 544.2 | 543.6 | 542.9 |
| 162.5° | 549.7 | 550.4 | 550.9 | 551.0 | 550.4 | 549.8 | 549.2 | 548.7 |
| 165° | 556.7 | 557.4 | 558.2 | 558.2 | 557.5 | 556.9 | 556.3 | 555.6 |
| 167.5° | 562.1 | 562.8 | 563.5 | 563.5 | 562.8 | 562.1 | 561.4 | 560.6 |
| 170° | 565.1 | 565.9 | 566.7 | 566.7 | 565.9 | 565.1 | 564.4 | 563.6 |
| 172.5° | 567.1 | 567.9 | 568.6 | 568.6 | 567.8 | 566.9 | 566.2 | 565.3 |
| 175° | 569.6 | 570.2 | 570.9 | 570.9 | 570.1 | 569.4 | 568.6 | 567.9 |
| 177.5° | 570.5 | 571.1 | 571.7 | 571.7 | 570.9 | 570.1 | 569.4 | 568.6 |
| 180° | 570.0 | 570.0 | 570.0 | 570.0 | 570.0 | 570.0 | 570.0 | 570.0 |

(END OF REPORT)