

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: P332323-840

Luminaire Tested: **S123RDIP-S775D1025U840-4F0-1E-UDD-F4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332323-840
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-17,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S123RDIP-S775D1025U840-4F0-1E-UDD-F4
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 775 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER, REGRESSED
HOUSING
UPLIGHT 1025 LUMENS PER FOOT, BATWING OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6695.7 lumens
Efficiency: N/A
Efficacy: 128.8 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: General Diffuse

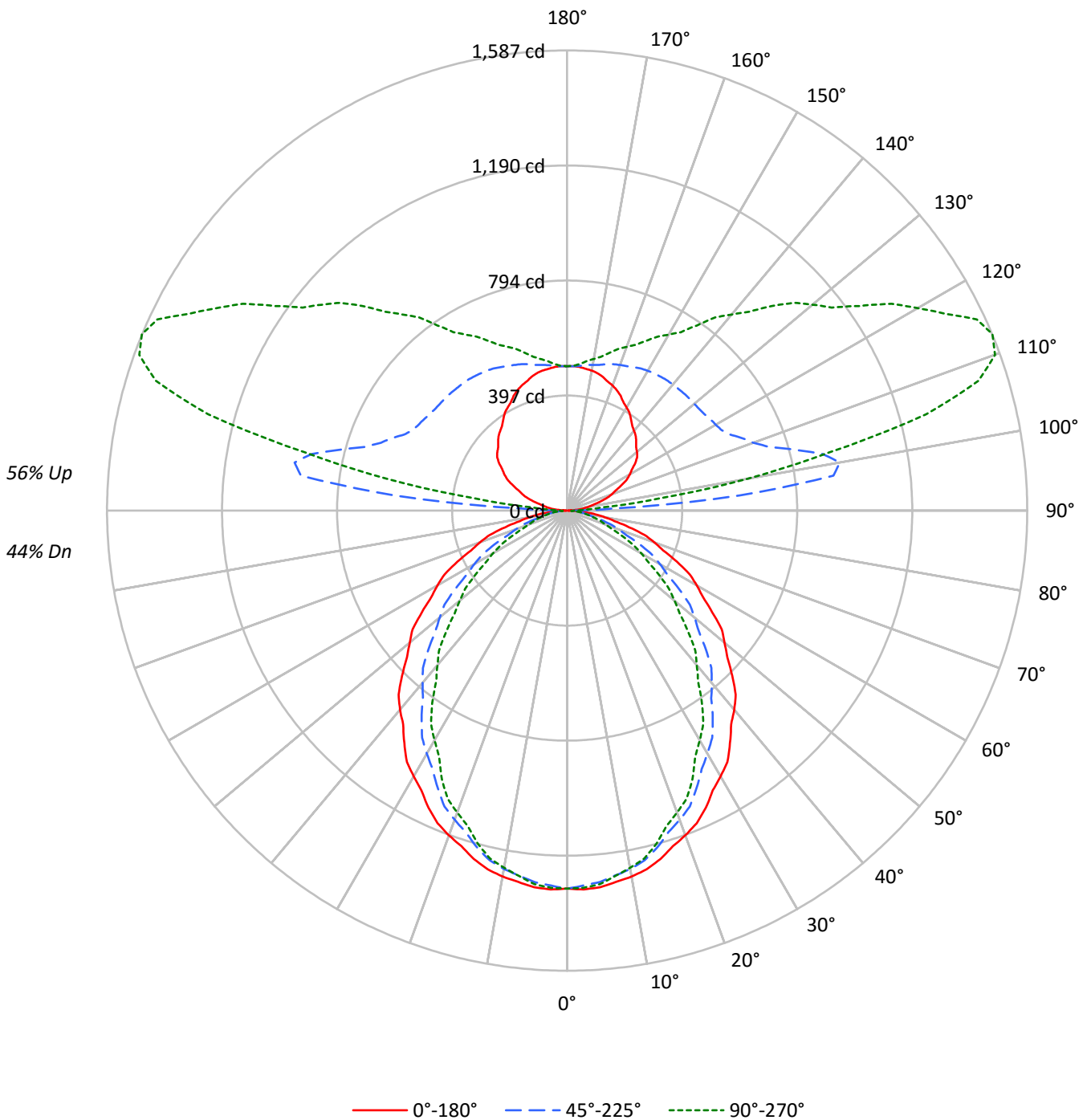
Input Watts (W): 52
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P332323-840

CATALOG NUMBER: S123RDIP-S775D1025U840-4F0-1E-UDD-F4

Luminous Intensity Polar Plot





TEST NUMBER: P332323-840

CATALOG NUMBER: S123RDIP-S775D1025U840-4F0-1E-UDD-F4

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 | 65 | 65 | 65 | 51 | 51 | 51 | 44 |
| 1 | 97 | 93 | 89 | 85 | 88 | 85 | 82 | 79 | 71 | 68 | 66 | 57 | 56 | 54 | 45 | 44 | 43 | 38 |
| 2 | 88 | 81 | 75 | 70 | 81 | 75 | 69 | 65 | 62 | 58 | 55 | 51 | 48 | 46 | 40 | 38 | 37 | 32 |
| 3 | 81 | 72 | 64 | 59 | 74 | 66 | 60 | 55 | 55 | 50 | 47 | 45 | 42 | 39 | 36 | 34 | 32 | 27 |
| 4 | 74 | 63 | 56 | 50 | 67 | 58 | 52 | 47 | 49 | 44 | 40 | 40 | 37 | 34 | 32 | 30 | 28 | 24 |
| 5 | 68 | 57 | 49 | 43 | 62 | 52 | 45 | 40 | 44 | 39 | 35 | 36 | 32 | 29 | 29 | 26 | 24 | 21 |
| 6 | 63 | 51 | 43 | 37 | 57 | 47 | 40 | 35 | 40 | 34 | 30 | 33 | 29 | 26 | 26 | 24 | 21 | 18 |
| 7 | 58 | 46 | 38 | 33 | 53 | 42 | 36 | 31 | 36 | 31 | 27 | 30 | 26 | 23 | 24 | 21 | 19 | 16 |
| 8 | 54 | 42 | 34 | 29 | 49 | 39 | 32 | 27 | 33 | 28 | 24 | 27 | 23 | 20 | 22 | 19 | 17 | 15 |
| 9 | 50 | 38 | 31 | 26 | 46 | 35 | 29 | 24 | 30 | 25 | 21 | 25 | 21 | 18 | 21 | 18 | 16 | 13 |
| 10 | 47 | 35 | 28 | 23 | 43 | 32 | 26 | 22 | 28 | 23 | 19 | 23 | 19 | 17 | 19 | 16 | 14 | 12 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 14034 | 14034 | 14034 |
| 5° | 14088 | 13894 | 13973 |
| 10° | 14008 | 13719 | 13672 |
| 15° | 13857 | 13397 | 13256 |
| 20° | 13651 | 12997 | 12693 |
| 25° | 13438 | 12545 | 12144 |
| 30° | 13155 | 12026 | 11368 |
| 35° | 12867 | 11506 | 10657 |
| 40° | 12600 | 10891 | 9777 |
| 45° | 12250 | 10286 | 8983 |
| 50° | 11863 | 9597 | 8092 |
| 55° | 11470 | 8811 | 7263 |
| 60° | 11108 | 7967 | 6351 |
| 65° | 10639 | 7055 | 5440 |
| 70° | 10049 | 5923 | 4393 |
| 75° | 9191 | 4662 | 4134 |
| 80° | 8195 | 4135 | 3800 |
| 85° | 6916 | 3656 | 3396 |



TEST NUMBER: P332323-840

CATALOG NUMBER: S123RDIP-S775D1025U840-4F0-1E-UDD-F4

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 122.4 | 1.8 |
| 10°-20° | 340.6 | 5.1 |
| 20°-30° | 490.5 | 7.3 |
| 30°-40° | 552.5 | 8.3 |
| 40°-50° | 528.6 | 7.9 |
| 50°-60° | 432.9 | 6.5 |
| 60°-70° | 292.0 | 4.4 |
| 70°-80° | 146.9 | 2.2 |
| 80°-90° | 42.7 | 0.6 |
| 90°-100° | 277.1 | 4.1 |
| 100°-110° | 784.7 | 11.7 |
| 110°-120° | 771.9 | 11.5 |
| 120°-130° | 615.7 | 9.2 |
| 130°-140° | 485.5 | 7.3 |
| 140°-150° | 362.3 | 5.4 |
| 150°-160° | 252.5 | 3.8 |
| 160°-170° | 148.4 | 2.2 |
| 170°-180° | 48.3 | 0.7 |
| 0°-30° | 953.6 | 14.2 |
| 0°-40° | 1506.1 | 22.5 |
| 0°-60° | 2467.5 | 36.9 |
| 0°-90° | 2949.2 | 44.0 |
| 90°-120° | 1833.8 | 27.4 |
| 90°-150° | 3297.3 | 49.2 |
| 90°-180° | 3746.0 | 55.9 |
| 0°-180° | 6695.7 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 1304 | 1304 | 1304 | 1304 | 1304 | |
| 5° | 1304 | 1298 | 1286 | 1295 | 1293 | 124 |
| 15° | 1244 | 1231 | 1202 | 1197 | 1190 | 350 |
| 25° | 1132 | 1104 | 1056 | 1035 | 1022 | 520 |
| 35° | 979 | 940 | 876 | 832 | 811 | 613 |
| 45° | 805 | 755 | 676 | 617 | 590 | 621 |
| 55° | 611 | 557 | 470 | 410 | 387 | 548 |
| 65° | 418 | 358 | 277 | 227 | 214 | 413 |
| 75° | 221 | 170 | 112 | 102 | 99 | 236 |
| 85° | 56 | 34 | 30 | 28 | 28 | 63 |
| 90° | 2 | 12 | 25 | 28 | 29 | 5 |
| 95° | 34 | 111 | 598 | 174 | 117 | 37 |
| 105° | 117 | 173 | 810 | 1417 | 1282 | 124 |
| 115° | 207 | 258 | 620 | 1359 | 1559 | 205 |
| 125° | 287 | 339 | 579 | 1048 | 1230 | 255 |
| 135° | 337 | 402 | 571 | 863 | 997 | 260 |
| 145° | 384 | 440 | 564 | 708 | 779 | 241 |
| 155° | 436 | 471 | 545 | 620 | 646 | 201 |
| 165° | 477 | 490 | 522 | 554 | 564 | 134 |
| 175° | 497 | 498 | 501 | 508 | 507 | 47 |
| 180° | 498 | 498 | 498 | 498 | 498 | |



TEST NUMBER: P332323-840

CATALOG NUMBER: S123RDIP-S775D1025U840-4F0-1E-UDD-F4

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1303.8 | 1303.8 | 1303.8 | 1303.8 | 1303.8 | 1303.8 | 1303.8 | 1303.8 | 1303.8 | 1303.8 | 1303.8 |
| 2.5° | 1308.0 | 1307.3 | 1306.5 | 1305.8 | 1305.0 | 1303.5 | 1301.2 | 1299.0 | 1296.8 | 1294.4 | 1296.6 |
| 5° | 1303.8 | 1302.6 | 1301.4 | 1300.3 | 1299.1 | 1297.1 | 1294.2 | 1291.4 | 1288.6 | 1285.9 | 1287.9 |
| 7.5° | 1291.7 | 1290.5 | 1289.2 | 1287.9 | 1286.7 | 1284.1 | 1280.5 | 1276.9 | 1273.2 | 1269.5 | 1270.7 |
| 10° | 1281.6 | 1279.9 | 1278.3 | 1276.7 | 1275.0 | 1272.0 | 1267.8 | 1263.6 | 1259.4 | 1255.2 | 1255.4 |
| 12.5° | 1267.2 | 1265.4 | 1263.5 | 1261.7 | 1259.9 | 1256.4 | 1251.2 | 1246.1 | 1240.8 | 1235.7 | 1235.6 |
| 15° | 1243.5 | 1240.9 | 1238.3 | 1235.8 | 1233.1 | 1228.6 | 1222.0 | 1215.5 | 1208.8 | 1202.2 | 1201.1 |
| 17.5° | 1213.7 | 1210.7 | 1207.7 | 1204.7 | 1201.6 | 1196.0 | 1187.6 | 1179.2 | 1170.8 | 1162.6 | 1160.0 |
| 20° | 1191.7 | 1187.9 | 1184.2 | 1180.4 | 1176.7 | 1170.3 | 1161.3 | 1152.5 | 1143.6 | 1134.6 | 1131.6 |
| 22.5° | 1167.2 | 1162.9 | 1158.5 | 1154.2 | 1149.8 | 1143.0 | 1133.5 | 1124.0 | 1114.5 | 1105.0 | 1101.2 |
| 25° | 1131.5 | 1125.6 | 1119.6 | 1113.8 | 1107.9 | 1099.5 | 1088.7 | 1077.9 | 1067.1 | 1056.3 | 1051.4 |
| 27.5° | 1088.0 | 1081.6 | 1075.1 | 1068.6 | 1062.2 | 1052.9 | 1040.9 | 1028.9 | 1016.7 | 1004.7 | 997.8 |
| 30° | 1058.4 | 1051.4 | 1044.4 | 1037.3 | 1030.3 | 1020.2 | 1007.0 | 993.8 | 980.7 | 967.6 | 959.6 |
| 32.5° | 1028.9 | 1020.9 | 1012.9 | 1004.9 | 996.9 | 985.9 | 972.0 | 958.2 | 944.2 | 930.3 | 921.6 |
| 35° | 979.2 | 970.7 | 962.2 | 953.8 | 945.3 | 933.8 | 919.3 | 904.6 | 890.1 | 875.6 | 865.5 |
| 37.5° | 928.9 | 919.4 | 910.0 | 900.6 | 891.2 | 878.8 | 863.2 | 847.7 | 832.1 | 816.6 | 805.1 |
| 40° | 896.7 | 886.4 | 876.0 | 865.7 | 855.4 | 841.8 | 825.2 | 808.5 | 791.7 | 775.1 | 762.9 |
| 42.5° | 860.3 | 850.0 | 839.6 | 829.3 | 819.0 | 805.2 | 787.9 | 770.6 | 753.5 | 736.2 | 722.9 |
| 45° | 804.7 | 794.2 | 783.6 | 773.0 | 762.3 | 748.1 | 729.9 | 711.9 | 693.8 | 675.7 | 662.3 |
| 47.5° | 749.1 | 737.5 | 725.9 | 714.3 | 702.7 | 687.8 | 669.7 | 651.6 | 633.5 | 615.4 | 600.9 |
| 50° | 708.4 | 697.4 | 686.4 | 675.3 | 664.3 | 649.2 | 630.3 | 611.2 | 592.2 | 573.1 | 558.6 |
| 52.5° | 672.1 | 660.1 | 648.1 | 636.1 | 624.2 | 608.7 | 589.9 | 571.1 | 552.2 | 533.3 | 518.3 |
| 55° | 611.2 | 599.7 | 588.1 | 576.6 | 565.1 | 549.4 | 529.4 | 509.5 | 489.5 | 469.5 | 455.9 |
| 57.5° | 554.9 | 542.4 | 529.9 | 517.3 | 504.7 | 488.5 | 468.4 | 448.3 | 428.2 | 408.2 | 395.3 |
| 60° | 516.0 | 503.1 | 490.2 | 477.3 | 464.3 | 448.1 | 428.6 | 409.1 | 389.6 | 370.1 | 357.4 |
| 62.5° | 477.1 | 464.1 | 451.2 | 438.3 | 425.5 | 409.2 | 389.7 | 370.2 | 350.7 | 331.1 | 319.2 |
| 65° | 417.7 | 404.8 | 391.8 | 378.9 | 366.0 | 350.3 | 332.0 | 313.7 | 295.4 | 277.0 | 265.5 |
| 67.5° | 358.3 | 345.2 | 332.1 | 319.0 | 306.0 | 290.6 | 273.1 | 255.5 | 237.9 | 220.4 | 211.8 |
| 70° | 319.3 | 306.7 | 294.0 | 281.2 | 268.6 | 254.0 | 237.5 | 221.2 | 204.7 | 188.2 | 180.0 |
| 72.5° | 280.4 | 267.9 | 255.4 | 242.9 | 230.5 | 216.7 | 201.8 | 186.8 | 171.9 | 156.9 | 150.2 |
| 75° | 221.0 | 209.7 | 198.4 | 187.1 | 175.9 | 163.8 | 150.9 | 137.9 | 125.0 | 112.1 | 109.8 |
| 77.5° | 166.8 | 156.6 | 146.4 | 136.2 | 126.0 | 116.8 | 108.5 | 100.2 | 91.9 | 83.5 | 82.3 |
| 80° | 132.2 | 122.5 | 112.9 | 103.3 | 93.6 | 86.3 | 81.4 | 76.4 | 71.6 | 66.7 | 65.9 |
| 82.5° | 99.2 | 90.9 | 82.5 | 74.2 | 65.9 | 60.6 | 58.3 | 55.9 | 53.7 | 51.4 | 50.7 |
| 85° | 56.0 | 50.9 | 45.7 | 40.5 | 35.3 | 32.4 | 31.7 | 31.0 | 30.3 | 29.6 | 29.2 |
| 87.5° | 20.7 | 19.1 | 17.4 | 16.0 | 14.2 | 13.6 | 14.2 | 14.8 | 15.5 | 16.1 | 15.7 |
| 90° | 2.0 | 4.0 | 6.1 | 9.1 | 11.1 | 13.1 | 16.2 | 19.2 | 22.2 | 25.2 | 24.2 |
| 92.5° | 12.5 | 18.6 | 27.1 | 34.8 | 43.3 | 58.3 | 84.6 | 128.1 | 170.6 | 155.0 | 116.9 |
| 95° | 34.2 | 37.3 | 48.4 | 65.5 | 91.7 | 131.1 | 216.7 | 366.9 | 532.2 | 597.7 | 484.8 |
| 97.5° | 58.5 | 59.5 | 68.2 | 83.0 | 108.9 | 151.4 | 233.3 | 402.6 | 678.2 | 926.3 | 991.1 |
| 100° | 74.6 | 75.6 | 82.7 | 96.7 | 121.0 | 160.3 | 230.9 | 380.0 | 645.1 | 954.6 | 1153.2 |
| 102.5° | 91.5 | 93.3 | 99.6 | 112.9 | 134.7 | 170.8 | 234.1 | 360.6 | 596.7 | 902.2 | 1161.2 |
| 105° | 116.9 | 120.0 | 126.0 | 138.1 | 157.2 | 188.5 | 243.0 | 346.8 | 537.2 | 810.4 | 1099.7 |
| 107.5° | 143.9 | 146.9 | 152.8 | 164.7 | 182.7 | 211.7 | 259.4 | 345.8 | 499.4 | 729.4 | 992.1 |
| 110° | 163.3 | 166.3 | 171.4 | 182.5 | 199.5 | 227.8 | 273.2 | 349.8 | 484.8 | 683.5 | 924.3 |



TEST NUMBER: P332323-840

CATALOG NUMBER: S123RDIP-S775D1025U840-4F0-1E-UDD-F4

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 181.1 | 184.1 | 189.1 | 200.2 | 217.3 | 244.8 | 286.9 | 357.9 | 476.8 | 652.8 | 865.5 |
| 115° | 206.6 | 210.7 | 216.7 | 226.8 | 244.0 | 271.1 | 309.4 | 370.9 | 473.7 | 620.0 | 794.4 |
| 117.5° | 232.3 | 236.9 | 242.0 | 251.2 | 270.3 | 295.6 | 333.5 | 388.3 | 475.5 | 600.6 | 751.3 |
| 120° | 249.9 | 253.0 | 258.0 | 268.1 | 287.3 | 312.5 | 348.8 | 401.2 | 478.8 | 591.7 | 728.8 |
| 122.5° | 265.3 | 268.3 | 273.4 | 284.3 | 302.7 | 329.4 | 364.9 | 413.3 | 484.4 | 586.0 | 710.2 |
| 125° | 287.3 | 289.3 | 295.4 | 306.4 | 325.6 | 352.8 | 388.1 | 432.4 | 492.9 | 578.7 | 686.5 |
| 127.5° | 304.1 | 307.0 | 314.5 | 325.8 | 347.0 | 374.2 | 408.3 | 448.2 | 502.6 | 575.0 | 665.5 |
| 130° | 314.5 | 317.5 | 326.6 | 338.7 | 359.8 | 387.1 | 420.3 | 458.7 | 509.1 | 572.6 | 654.2 |
| 132.5° | 322.6 | 326.4 | 336.3 | 350.8 | 371.9 | 398.4 | 430.8 | 468.4 | 513.9 | 571.8 | 643.7 |
| 135° | 336.7 | 340.7 | 351.8 | 366.9 | 388.1 | 415.3 | 446.6 | 480.8 | 521.2 | 570.6 | 630.1 |
| 137.5° | 350.0 | 354.3 | 365.1 | 381.2 | 402.2 | 427.4 | 457.5 | 490.1 | 525.9 | 568.4 | 618.1 |
| 140° | 358.9 | 363.9 | 374.0 | 390.1 | 410.3 | 435.5 | 464.7 | 494.9 | 529.2 | 567.5 | 610.9 |
| 142.5° | 368.5 | 372.7 | 383.6 | 398.2 | 418.3 | 441.9 | 470.4 | 499.8 | 531.6 | 565.9 | 604.4 |
| 145° | 384.1 | 387.1 | 396.2 | 411.3 | 428.4 | 451.6 | 477.8 | 505.0 | 533.2 | 563.5 | 595.7 |
| 147.5° | 399.8 | 401.6 | 410.5 | 423.5 | 440.1 | 459.9 | 483.8 | 508.3 | 533.2 | 559.7 | 587.2 |
| 150° | 410.3 | 411.3 | 419.3 | 432.4 | 446.6 | 464.7 | 487.9 | 509.1 | 533.2 | 556.4 | 581.6 |
| 152.5° | 420.7 | 420.9 | 429.0 | 440.5 | 453.0 | 470.4 | 490.3 | 510.7 | 530.8 | 552.4 | 575.2 |
| 155° | 436.5 | 436.5 | 442.5 | 452.6 | 463.7 | 477.8 | 494.9 | 511.1 | 528.2 | 545.3 | 565.5 |
| 157.5° | 449.0 | 449.8 | 454.6 | 463.5 | 472.9 | 483.8 | 497.6 | 512.1 | 524.8 | 539.1 | 554.6 |
| 160° | 458.7 | 458.7 | 462.7 | 470.7 | 477.8 | 487.9 | 500.0 | 512.1 | 523.2 | 534.2 | 547.3 |
| 162.5° | 466.0 | 466.0 | 469.2 | 475.5 | 481.8 | 490.3 | 500.8 | 511.3 | 520.0 | 529.4 | 540.1 |
| 165° | 476.8 | 475.7 | 477.8 | 482.8 | 486.9 | 493.9 | 502.0 | 509.1 | 515.1 | 522.2 | 530.2 |
| 167.5° | 485.0 | 483.8 | 484.8 | 488.7 | 491.5 | 495.9 | 501.8 | 507.5 | 510.3 | 514.9 | 520.8 |
| 170° | 489.9 | 487.9 | 488.9 | 491.9 | 493.9 | 495.9 | 501.0 | 505.0 | 507.1 | 510.1 | 515.1 |
| 172.5° | 493.1 | 491.9 | 492.1 | 494.3 | 495.5 | 496.8 | 501.0 | 504.2 | 504.6 | 506.0 | 509.5 |
| 175° | 497.0 | 495.9 | 494.9 | 497.0 | 497.0 | 498.0 | 500.0 | 502.0 | 501.0 | 501.0 | 503.0 |
| 177.5° | 498.8 | 498.0 | 497.2 | 498.0 | 498.0 | 498.0 | 498.8 | 500.4 | 498.8 | 498.0 | 498.8 |
| 180° | 498.0 | 498.0 | 498.0 | 498.0 | 498.0 | 498.0 | 498.0 | 498.0 | 498.0 | 498.0 | 498.0 |



TEST NUMBER: P332323-840

CATALOG NUMBER: S123RDIP-S775D1025U840-4F0-1E-UDD-F4

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1303.8 | 1303.8 | 1303.8 | 1303.8 | 1303.8 | 1303.8 | 1303.8 | 1303.8 |
| 2.5° | 1298.6 | 1300.7 | 1302.7 | 1303.6 | 1303.2 | 1302.8 | 1302.4 | 1302.1 |
| 5° | 1290.0 | 1292.1 | 1294.2 | 1295.1 | 1294.6 | 1294.1 | 1293.6 | 1293.2 |
| 7.5° | 1271.9 | 1273.0 | 1274.2 | 1274.4 | 1273.6 | 1272.8 | 1272.0 | 1271.2 |
| 10° | 1255.7 | 1255.9 | 1256.1 | 1255.7 | 1254.5 | 1253.2 | 1252.1 | 1250.9 |
| 12.5° | 1235.4 | 1235.3 | 1235.2 | 1234.4 | 1233.0 | 1231.6 | 1230.3 | 1228.9 |
| 15° | 1199.9 | 1198.7 | 1197.6 | 1196.2 | 1194.6 | 1192.9 | 1191.2 | 1189.6 |
| 17.5° | 1157.5 | 1155.1 | 1152.6 | 1150.1 | 1147.6 | 1145.2 | 1142.8 | 1140.3 |
| 20° | 1128.5 | 1125.4 | 1122.4 | 1119.4 | 1116.6 | 1113.8 | 1111.0 | 1108.1 |
| 22.5° | 1097.4 | 1093.6 | 1089.7 | 1086.5 | 1083.9 | 1081.3 | 1078.6 | 1076.0 |
| 25° | 1046.5 | 1041.6 | 1036.6 | 1032.9 | 1030.3 | 1027.6 | 1025.1 | 1022.5 |
| 27.5° | 991.0 | 984.2 | 977.3 | 971.9 | 968.0 | 964.0 | 960.1 | 956.1 |
| 30° | 951.6 | 943.5 | 935.5 | 929.7 | 925.9 | 922.2 | 918.4 | 914.6 |
| 32.5° | 912.8 | 904.1 | 895.3 | 889.0 | 885.0 | 881.1 | 877.2 | 873.2 |
| 35° | 855.4 | 845.3 | 835.2 | 828.0 | 823.7 | 819.5 | 815.3 | 811.0 |
| 37.5° | 793.6 | 782.1 | 770.6 | 762.3 | 757.1 | 751.8 | 746.7 | 741.4 |
| 40° | 750.6 | 738.4 | 726.2 | 717.4 | 712.0 | 706.6 | 701.1 | 695.8 |
| 42.5° | 709.4 | 696.1 | 682.8 | 673.7 | 668.8 | 664.0 | 659.1 | 654.3 |
| 45° | 648.9 | 635.5 | 622.1 | 612.6 | 606.9 | 601.3 | 595.7 | 590.1 |
| 47.5° | 586.2 | 571.7 | 557.1 | 547.3 | 542.3 | 537.2 | 532.3 | 527.3 |
| 50° | 544.0 | 529.4 | 514.8 | 504.8 | 499.5 | 494.0 | 488.7 | 483.2 |
| 52.5° | 503.1 | 488.0 | 472.8 | 462.8 | 458.0 | 453.1 | 448.3 | 443.4 |
| 55° | 442.2 | 428.6 | 415.0 | 405.8 | 401.1 | 396.4 | 391.7 | 387.0 |
| 57.5° | 382.4 | 369.5 | 356.7 | 348.2 | 344.3 | 340.2 | 336.2 | 332.2 |
| 60° | 344.7 | 332.0 | 319.3 | 311.0 | 307.0 | 303.0 | 299.0 | 295.0 |
| 62.5° | 307.3 | 295.4 | 283.5 | 275.4 | 271.1 | 267.0 | 262.9 | 258.6 |
| 65° | 254.0 | 242.5 | 231.0 | 223.9 | 221.4 | 218.7 | 216.2 | 213.6 |
| 67.5° | 203.2 | 194.6 | 185.9 | 180.3 | 177.5 | 174.7 | 172.0 | 169.2 |
| 70° | 171.8 | 163.5 | 155.3 | 150.0 | 147.3 | 144.7 | 142.2 | 139.6 |
| 72.5° | 143.5 | 136.7 | 130.1 | 126.1 | 125.0 | 124.0 | 122.9 | 121.8 |
| 75° | 107.3 | 105.0 | 102.7 | 101.3 | 100.8 | 100.4 | 99.9 | 99.4 |
| 77.5° | 81.0 | 79.7 | 78.5 | 77.6 | 77.2 | 76.6 | 76.1 | 75.7 |
| 80° | 65.2 | 64.5 | 63.8 | 63.2 | 62.7 | 62.3 | 61.8 | 61.3 |
| 82.5° | 50.0 | 49.3 | 48.6 | 48.2 | 48.1 | 48.0 | 47.9 | 47.8 |
| 85° | 28.7 | 28.2 | 27.8 | 27.5 | 27.5 | 27.5 | 27.5 | 27.5 |
| 87.5° | 15.7 | 15.7 | 15.7 | 15.9 | 15.6 | 15.6 | 15.6 | 15.1 |
| 90° | 25.2 | 26.3 | 27.3 | 29.2 | 28.2 | 29.2 | 30.2 | 29.2 |
| 92.5° | 84.8 | 67.4 | 59.5 | 54.2 | 52.4 | 49.4 | 50.4 | 48.6 |
| 95° | 362.8 | 246.0 | 192.6 | 156.2 | 137.1 | 128.1 | 121.0 | 116.9 |
| 97.5° | 904.6 | 724.6 | 594.5 | 473.9 | 399.6 | 354.3 | 327.0 | 318.3 |
| 100° | 1188.5 | 1106.8 | 988.9 | 845.8 | 744.0 | 670.3 | 631.1 | 632.1 |
| 102.5° | 1282.8 | 1280.2 | 1211.4 | 1120.7 | 1041.5 | 983.2 | 950.4 | 927.2 |
| 105° | 1310.4 | 1411.3 | 1430.4 | 1404.2 | 1357.8 | 1319.5 | 1287.3 | 1282.2 |
| 107.5° | 1231.0 | 1394.7 | 1483.0 | 1518.9 | 1519.7 | 1506.8 | 1495.9 | 1486.6 |
| 110° | 1155.2 | 1340.7 | 1467.6 | 1538.2 | 1566.5 | 1574.6 | 1572.6 | 1570.5 |



TEST NUMBER: P332323-840

CATALOG NUMBER: S123RDIP-S775D1025U840-4F0-1E-UDD-F4

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 1080.2 | 1269.7 | 1412.0 | 1502.8 | 1554.4 | 1579.3 | 1587.0 | 1587.4 |
| 115° | 980.8 | 1156.2 | 1304.3 | 1414.2 | 1489.9 | 1534.2 | 1554.4 | 1559.4 |
| 117.5° | 908.9 | 1060.3 | 1193.3 | 1304.7 | 1383.6 | 1434.4 | 1463.5 | 1470.3 |
| 120° | 870.9 | 1007.0 | 1128.0 | 1229.8 | 1309.4 | 1365.8 | 1390.1 | 1396.1 |
| 122.5° | 841.1 | 964.3 | 1076.4 | 1170.9 | 1241.7 | 1292.5 | 1319.1 | 1326.8 |
| 125° | 801.4 | 911.3 | 1008.0 | 1088.6 | 1153.2 | 1197.5 | 1222.7 | 1229.8 |
| 127.5° | 766.7 | 864.6 | 952.0 | 1025.3 | 1082.8 | 1120.7 | 1143.5 | 1149.9 |
| 130° | 745.0 | 835.7 | 917.3 | 985.8 | 1039.3 | 1075.6 | 1096.7 | 1104.8 |
| 132.5° | 724.8 | 808.2 | 884.2 | 949.6 | 999.8 | 1036.0 | 1054.8 | 1060.5 |
| 135° | 697.5 | 769.1 | 834.7 | 892.1 | 941.5 | 971.7 | 989.9 | 996.9 |
| 137.5° | 672.8 | 731.4 | 787.9 | 837.7 | 879.2 | 909.9 | 925.1 | 929.8 |
| 140° | 658.2 | 709.6 | 758.0 | 801.4 | 839.7 | 867.9 | 884.0 | 883.0 |
| 142.5° | 644.5 | 688.7 | 730.6 | 768.3 | 801.0 | 826.0 | 840.5 | 839.5 |
| 145° | 628.0 | 661.3 | 693.5 | 722.8 | 747.9 | 769.1 | 777.2 | 779.2 |
| 147.5° | 614.5 | 640.9 | 666.9 | 687.7 | 706.8 | 721.1 | 728.8 | 729.6 |
| 150° | 604.8 | 628.0 | 649.1 | 668.3 | 683.5 | 694.5 | 700.5 | 700.5 |
| 152.5° | 595.9 | 615.9 | 634.7 | 650.6 | 662.5 | 672.8 | 676.4 | 676.4 |
| 155° | 582.6 | 598.7 | 613.9 | 626.0 | 635.1 | 643.1 | 645.1 | 646.1 |
| 157.5° | 568.6 | 582.0 | 593.7 | 603.2 | 611.1 | 617.1 | 618.7 | 618.5 |
| 160° | 560.5 | 571.6 | 581.6 | 588.7 | 595.7 | 601.8 | 601.8 | 600.8 |
| 162.5° | 550.8 | 560.3 | 569.6 | 575.8 | 580.5 | 585.6 | 585.6 | 584.6 |
| 165° | 538.3 | 544.3 | 551.4 | 556.4 | 560.5 | 564.5 | 563.5 | 563.5 |
| 167.5° | 527.4 | 532.0 | 536.0 | 539.7 | 541.5 | 544.3 | 543.3 | 543.3 |
| 170° | 520.2 | 523.2 | 527.1 | 529.2 | 530.2 | 532.2 | 531.2 | 531.2 |
| 172.5° | 513.7 | 515.9 | 519.2 | 520.4 | 520.6 | 522.6 | 520.8 | 520.0 |
| 175° | 505.0 | 506.0 | 508.1 | 508.1 | 508.1 | 509.1 | 508.1 | 507.1 |
| 177.5° | 499.6 | 500.4 | 501.2 | 501.2 | 500.4 | 501.2 | 499.6 | 499.6 |
| 180° | 498.0 | 498.0 | 498.0 | 498.0 | 498.0 | 498.0 | 498.0 | 498.0 |

(END OF REPORT)