

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: P332389-927

Luminaire Tested: **S123RDIP-S1165D1195U927-4F0-1E-UDD-F4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332389-927
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-S1165D1195U927-4F0-1E-UDD-F4
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 1165 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER, REGRESSED
HOUSING
UPLIGHT 1195 LUMENS PER FOOT, BATWING OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6892.8 lumens
Efficiency: N/A
Efficacy: 96.1 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: General Diffuse

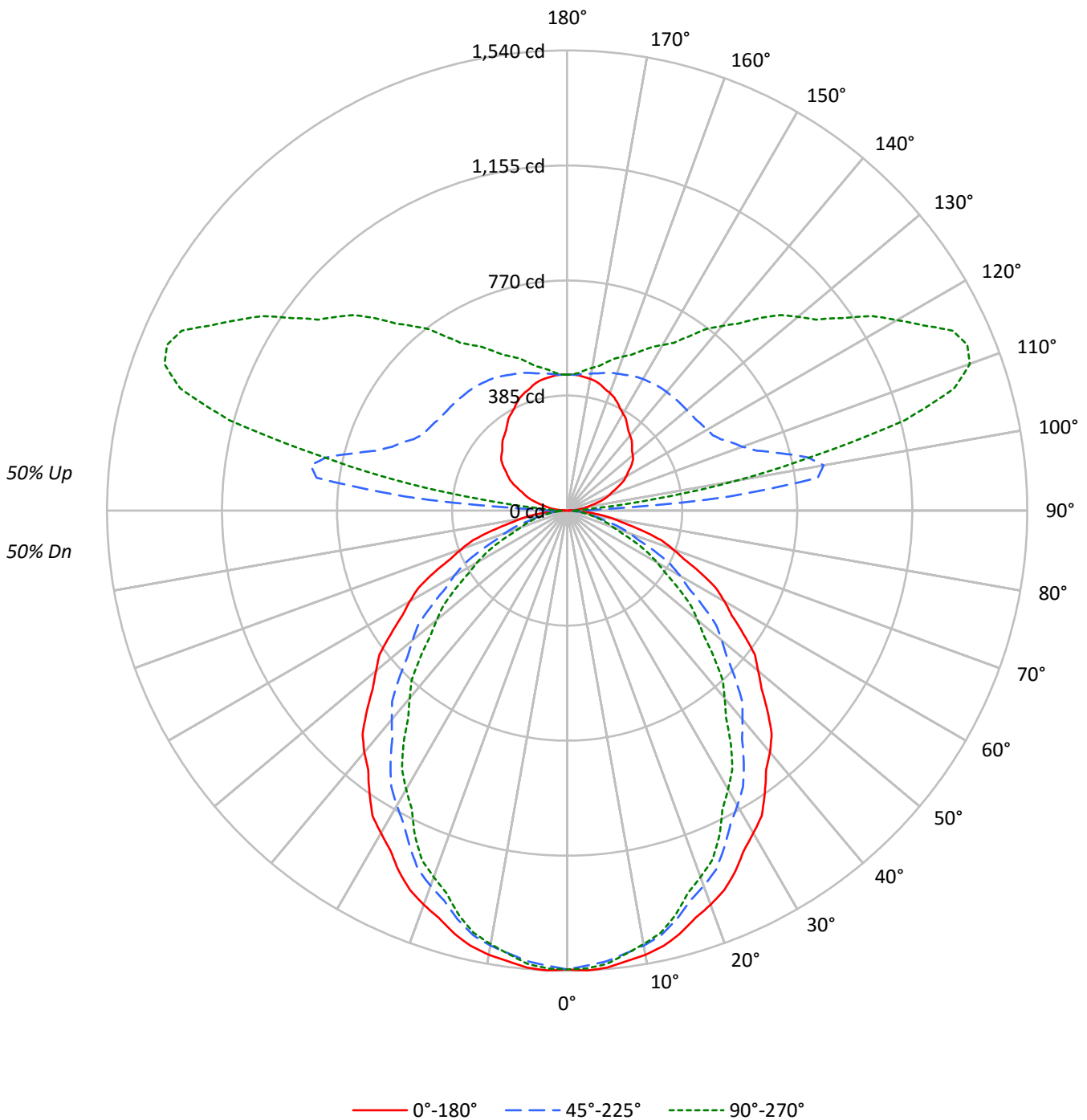
Input Watts (W): 71.7
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P332389-927

CATALOG NUMBER: S123RDIP-S1165D1195U927-4F0-1E-UDD-F4

Luminous Intensity Polar Plot





TEST NUMBER: P332389-927

CATALOG NUMBER: S123RDIP-S1165D1195U927-4F0-1E-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 | 107 | 107 | 107 | 107 | 99 | 99 | 99 | 99 | 84 | 84 | 84 | 69 | 69 | 69 | 56 | 56 | 56 | 50 |
| 1 | 98 | 94 | 90 | 87 | 91 | 87 | 84 | 81 | 74 | 71 | 69 | 62 | 60 | 58 | 50 | 49 | 48 | 43 |
| 2 | 90 | 82 | 76 | 71 | 83 | 76 | 71 | 67 | 65 | 61 | 58 | 54 | 52 | 49 | 45 | 43 | 41 | 37 |
| 3 | 82 | 73 | 66 | 60 | 75 | 67 | 61 | 56 | 58 | 53 | 49 | 48 | 45 | 42 | 40 | 37 | 35 | 31 |
| 4 | 75 | 65 | 57 | 51 | 69 | 60 | 53 | 48 | 51 | 46 | 42 | 43 | 39 | 36 | 36 | 33 | 31 | 27 |
| 5 | 69 | 58 | 50 | 44 | 64 | 54 | 47 | 41 | 46 | 41 | 36 | 39 | 35 | 32 | 32 | 29 | 27 | 24 |
| 6 | 64 | 52 | 44 | 38 | 59 | 48 | 41 | 36 | 42 | 36 | 32 | 35 | 31 | 28 | 30 | 26 | 24 | 21 |
| 7 | 59 | 47 | 39 | 34 | 54 | 44 | 37 | 32 | 38 | 32 | 28 | 32 | 28 | 25 | 27 | 24 | 21 | 19 |
| 8 | 55 | 43 | 35 | 30 | 51 | 40 | 33 | 28 | 35 | 29 | 25 | 30 | 25 | 22 | 25 | 22 | 19 | 17 |
| 9 | 51 | 39 | 32 | 27 | 47 | 36 | 30 | 25 | 32 | 26 | 23 | 27 | 23 | 20 | 23 | 20 | 17 | 15 |
| 10 | 48 | 36 | 29 | 24 | 44 | 34 | 27 | 23 | 29 | 24 | 20 | 25 | 21 | 18 | 21 | 18 | 16 | 14 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 16527 | 16527 | 16527 |
| 5° | 16590 | 16361 | 16455 |
| 10° | 16497 | 16156 | 16101 |
| 15° | 16319 | 15778 | 15611 |
| 20° | 16076 | 15306 | 14948 |
| 25° | 15824 | 14775 | 14301 |
| 30° | 15493 | 14162 | 13387 |
| 35° | 15152 | 13548 | 12550 |
| 40° | 14838 | 12826 | 11514 |
| 45° | 14425 | 12113 | 10577 |
| 50° | 13971 | 11302 | 9530 |
| 55° | 13508 | 10376 | 8552 |
| 60° | 13082 | 9384 | 7481 |
| 65° | 12528 | 8308 | 6406 |
| 70° | 11833 | 6977 | 5174 |
| 75° | 10821 | 5490 | 4870 |
| 80° | 9651 | 4860 | 4475 |
| 85° | 8151 | 4310 | 4001 |



TEST NUMBER: P332389-927

CATALOG NUMBER: S123RDIP-S1165D1195U927-4F0-1E-UDD-F4

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 144.2 | 2.1 |
| 10°-20° | 401.2 | 5.8 |
| 20°-30° | 577.6 | 8.4 |
| 30°-40° | 650.7 | 9.4 |
| 40°-50° | 622.5 | 9.0 |
| 50°-60° | 509.7 | 7.4 |
| 60°-70° | 343.9 | 5.0 |
| 70°-80° | 173.0 | 2.5 |
| 80°-90° | 49.3 | 0.7 |
| 90°-100° | 253.0 | 3.7 |
| 100°-110° | 716.5 | 10.4 |
| 110°-120° | 704.8 | 10.2 |
| 120°-130° | 562.2 | 8.2 |
| 130°-140° | 443.3 | 6.4 |
| 140°-150° | 330.8 | 4.8 |
| 150°-160° | 230.6 | 3.3 |
| 160°-170° | 135.5 | 2.0 |
| 170°-180° | 44.1 | 0.6 |
| 0°-30° | 1123.0 | 16.3 |
| 0°-40° | 1773.6 | 25.7 |
| 0°-60° | 2905.8 | 42.2 |
| 0°-90° | 3472.1 | 50.4 |
| 90°-120° | 1674.3 | 24.3 |
| 90°-150° | 3010.6 | 43.7 |
| 90°-180° | 3421.0 | 49.6 |
| 0°-180° | 6892.8 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 1535 | 1535 | 1535 | 1535 | 1535 | |
| 5° | 1535 | 1529 | 1514 | 1525 | 1523 | 146 |
| 15° | 1464 | 1450 | 1416 | 1410 | 1401 | 412 |
| 25° | 1332 | 1300 | 1244 | 1219 | 1204 | 613 |
| 35° | 1153 | 1106 | 1031 | 979 | 955 | 721 |
| 45° | 948 | 889 | 796 | 727 | 695 | 731 |
| 55° | 720 | 656 | 553 | 483 | 456 | 645 |
| 65° | 492 | 422 | 326 | 268 | 252 | 487 |
| 75° | 260 | 200 | 132 | 120 | 117 | 278 |
| 85° | 66 | 40 | 35 | 32 | 32 | 74 |
| 90° | 2 | 11 | 23 | 26 | 27 | 5 |
| 95° | 31 | 102 | 546 | 159 | 107 | 34 |
| 105° | 107 | 158 | 740 | 1294 | 1171 | 113 |
| 115° | 189 | 235 | 566 | 1241 | 1424 | 187 |
| 125° | 262 | 310 | 528 | 957 | 1123 | 233 |
| 135° | 307 | 367 | 521 | 788 | 910 | 237 |
| 145° | 351 | 402 | 514 | 647 | 712 | 220 |
| 155° | 398 | 430 | 498 | 566 | 590 | 183 |
| 165° | 435 | 448 | 477 | 506 | 514 | 123 |
| 175° | 454 | 454 | 457 | 464 | 463 | 43 |
| 180° | 455 | 455 | 455 | 455 | 455 | |



TEST NUMBER: P332389-927

CATALOG NUMBER: S123RDIP-S1165D1195U927-4F0-1E-UDD-F4

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1535.4 | 1535.4 | 1535.4 | 1535.4 | 1535.4 | 1535.4 | 1535.4 | 1535.4 | 1535.4 | 1535.4 | 1535.4 |
| 2.5° | 1540.4 | 1539.4 | 1538.6 | 1537.7 | 1536.8 | 1535.0 | 1532.4 | 1529.7 | 1527.1 | 1524.4 | 1526.9 |
| 5° | 1535.4 | 1534.0 | 1532.6 | 1531.2 | 1529.9 | 1527.5 | 1524.2 | 1520.8 | 1517.5 | 1514.2 | 1516.7 |
| 7.5° | 1521.1 | 1519.7 | 1518.2 | 1516.7 | 1515.2 | 1512.3 | 1508.0 | 1503.6 | 1499.4 | 1495.0 | 1496.4 |
| 10° | 1509.3 | 1507.3 | 1505.4 | 1503.4 | 1501.5 | 1498.0 | 1493.0 | 1488.0 | 1483.0 | 1478.1 | 1478.4 |
| 12.5° | 1492.3 | 1490.2 | 1488.0 | 1485.8 | 1483.7 | 1479.6 | 1473.5 | 1467.4 | 1461.3 | 1455.2 | 1455.0 |
| 15° | 1464.4 | 1461.3 | 1458.3 | 1455.2 | 1452.2 | 1446.8 | 1439.1 | 1431.3 | 1423.6 | 1415.9 | 1414.4 |
| 17.5° | 1429.3 | 1425.8 | 1422.2 | 1418.6 | 1415.2 | 1408.4 | 1398.6 | 1388.7 | 1378.9 | 1369.0 | 1366.1 |
| 20° | 1403.4 | 1399.0 | 1394.6 | 1390.1 | 1385.7 | 1378.2 | 1367.7 | 1357.2 | 1346.6 | 1336.2 | 1332.5 |
| 22.5° | 1374.5 | 1369.4 | 1364.3 | 1359.2 | 1354.2 | 1346.0 | 1334.8 | 1323.7 | 1312.5 | 1301.2 | 1296.8 |
| 25° | 1332.4 | 1325.5 | 1318.6 | 1311.6 | 1304.7 | 1294.9 | 1282.1 | 1269.5 | 1256.7 | 1244.0 | 1238.2 |
| 27.5° | 1281.4 | 1273.7 | 1266.1 | 1258.5 | 1250.8 | 1239.9 | 1225.7 | 1211.6 | 1197.4 | 1183.2 | 1175.1 |
| 30° | 1246.5 | 1238.2 | 1229.9 | 1221.5 | 1213.3 | 1201.3 | 1185.9 | 1170.4 | 1154.9 | 1139.4 | 1130.0 |
| 32.5° | 1211.6 | 1202.2 | 1192.8 | 1183.4 | 1174.0 | 1161.1 | 1144.7 | 1128.3 | 1111.9 | 1095.6 | 1085.3 |
| 35° | 1153.1 | 1143.1 | 1133.1 | 1123.2 | 1113.3 | 1099.7 | 1082.5 | 1065.4 | 1048.2 | 1031.0 | 1019.1 |
| 37.5° | 1093.8 | 1082.8 | 1071.7 | 1060.6 | 1049.6 | 1034.8 | 1016.5 | 998.2 | 979.9 | 961.6 | 948.1 |
| 40° | 1056.0 | 1043.8 | 1031.6 | 1019.5 | 1007.3 | 991.3 | 971.7 | 952.0 | 932.4 | 912.8 | 898.3 |
| 42.5° | 1013.1 | 1000.9 | 988.8 | 976.6 | 964.4 | 948.2 | 927.9 | 907.5 | 887.2 | 867.0 | 851.2 |
| 45° | 947.6 | 935.2 | 922.7 | 910.3 | 897.8 | 880.9 | 859.6 | 838.3 | 817.0 | 795.7 | 779.9 |
| 47.5° | 882.1 | 868.5 | 854.8 | 841.1 | 827.4 | 809.9 | 788.6 | 767.3 | 746.0 | 724.8 | 707.6 |
| 50° | 834.3 | 821.3 | 808.3 | 795.3 | 782.3 | 764.6 | 742.2 | 719.8 | 697.4 | 674.9 | 657.7 |
| 52.5° | 791.5 | 777.4 | 763.3 | 749.2 | 735.0 | 716.8 | 694.7 | 672.5 | 650.3 | 628.1 | 610.3 |
| 55° | 719.8 | 706.2 | 692.6 | 679.1 | 665.5 | 647.0 | 623.4 | 599.9 | 576.4 | 552.9 | 536.9 |
| 57.5° | 653.5 | 638.7 | 623.9 | 609.2 | 594.4 | 575.2 | 551.6 | 527.9 | 504.3 | 480.7 | 465.5 |
| 60° | 607.7 | 592.5 | 577.3 | 562.1 | 546.8 | 527.7 | 504.7 | 481.8 | 458.8 | 435.9 | 420.9 |
| 62.5° | 561.8 | 546.6 | 531.4 | 516.2 | 501.0 | 481.9 | 458.9 | 435.9 | 413.0 | 390.0 | 376.0 |
| 65° | 491.9 | 476.7 | 461.4 | 446.2 | 431.0 | 412.6 | 391.0 | 369.4 | 347.8 | 326.2 | 312.7 |
| 67.5° | 421.9 | 406.5 | 391.1 | 375.7 | 360.4 | 342.3 | 321.6 | 300.9 | 280.2 | 259.5 | 249.4 |
| 70° | 376.0 | 361.2 | 346.2 | 331.2 | 316.3 | 299.1 | 279.8 | 260.4 | 241.1 | 221.7 | 212.0 |
| 72.5° | 330.3 | 315.5 | 300.8 | 286.1 | 271.3 | 255.2 | 237.6 | 220.0 | 202.4 | 184.8 | 176.9 |
| 75° | 260.2 | 247.0 | 233.7 | 220.4 | 207.2 | 192.9 | 177.7 | 162.4 | 147.2 | 132.0 | 129.2 |
| 77.5° | 196.5 | 184.5 | 172.5 | 160.5 | 148.5 | 137.5 | 127.8 | 118.0 | 108.1 | 98.4 | 96.9 |
| 80° | 155.7 | 144.3 | 132.9 | 121.6 | 110.3 | 101.7 | 95.9 | 90.1 | 84.3 | 78.4 | 77.6 |
| 82.5° | 116.8 | 107.0 | 97.2 | 87.4 | 77.6 | 71.4 | 68.7 | 65.9 | 63.2 | 60.5 | 59.7 |
| 85° | 66.0 | 59.9 | 53.8 | 47.8 | 41.7 | 38.2 | 37.4 | 36.5 | 35.7 | 34.9 | 34.3 |
| 87.5° | 24.2 | 22.2 | 20.1 | 18.3 | 16.2 | 15.4 | 15.9 | 16.5 | 17.0 | 17.6 | 17.1 |
| 90° | 1.8 | 3.6 | 5.5 | 8.3 | 10.1 | 12.0 | 14.7 | 17.5 | 20.3 | 23.0 | 22.1 |
| 92.5° | 11.4 | 17.0 | 24.6 | 31.8 | 39.6 | 53.2 | 77.3 | 116.9 | 155.7 | 141.6 | 106.8 |
| 95° | 31.3 | 34.1 | 44.2 | 59.8 | 83.7 | 119.6 | 197.9 | 335.0 | 486.0 | 545.8 | 442.7 |
| 97.5° | 53.4 | 54.3 | 62.2 | 75.8 | 99.4 | 138.2 | 213.0 | 367.6 | 619.2 | 845.8 | 904.9 |
| 100° | 68.1 | 69.0 | 75.5 | 88.3 | 110.4 | 146.3 | 210.8 | 347.0 | 589.1 | 871.6 | 1053.0 |
| 102.5° | 83.6 | 85.2 | 90.9 | 103.1 | 122.9 | 155.9 | 213.7 | 329.3 | 544.9 | 823.8 | 1060.3 |
| 105° | 106.8 | 109.6 | 115.0 | 126.1 | 143.5 | 172.1 | 221.8 | 316.6 | 490.6 | 740.0 | 1004.2 |
| 107.5° | 131.4 | 134.2 | 139.5 | 150.4 | 166.8 | 193.3 | 236.9 | 315.7 | 456.0 | 666.0 | 905.9 |
| 110° | 149.1 | 151.9 | 156.5 | 166.6 | 182.2 | 208.0 | 249.5 | 319.4 | 442.7 | 624.0 | 844.0 |



TEST NUMBER: P332389-927

CATALOG NUMBER: S123RDIP-S1165D1195U927-4F0-1E-UDD-F4

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 165.3 | 168.1 | 172.7 | 182.8 | 198.4 | 223.5 | 262.0 | 326.8 | 435.4 | 596.0 | 790.3 |
| 115° | 188.7 | 192.3 | 197.9 | 207.1 | 222.8 | 247.6 | 282.6 | 338.7 | 432.6 | 566.0 | 725.2 |
| 117.5° | 212.1 | 216.3 | 220.9 | 229.3 | 246.8 | 269.9 | 304.4 | 354.5 | 434.3 | 548.3 | 686.0 |
| 120° | 228.2 | 231.0 | 235.6 | 244.9 | 262.3 | 285.3 | 318.5 | 366.3 | 437.2 | 540.3 | 665.4 |
| 122.5° | 242.2 | 245.0 | 249.6 | 259.5 | 276.3 | 300.8 | 333.2 | 377.4 | 442.4 | 535.1 | 648.5 |
| 125° | 262.3 | 264.2 | 269.7 | 279.8 | 297.3 | 322.1 | 354.3 | 394.8 | 450.0 | 528.3 | 626.8 |
| 127.5° | 277.6 | 280.4 | 287.2 | 297.5 | 316.8 | 341.7 | 372.7 | 409.2 | 458.9 | 525.0 | 607.7 |
| 130° | 287.2 | 289.9 | 298.2 | 309.3 | 328.6 | 353.4 | 383.8 | 418.7 | 464.8 | 522.8 | 597.3 |
| 132.5° | 294.5 | 298.0 | 307.0 | 320.3 | 339.6 | 363.8 | 393.4 | 427.6 | 469.2 | 522.0 | 587.8 |
| 135° | 307.4 | 311.1 | 321.2 | 335.0 | 354.3 | 379.2 | 407.7 | 439.0 | 475.9 | 520.9 | 575.3 |
| 137.5° | 319.6 | 323.4 | 333.4 | 348.1 | 367.3 | 390.2 | 417.6 | 447.5 | 480.3 | 518.9 | 564.4 |
| 140° | 327.6 | 332.2 | 341.4 | 356.2 | 374.6 | 397.6 | 424.3 | 451.9 | 483.2 | 518.2 | 557.8 |
| 142.5° | 336.5 | 340.4 | 350.3 | 363.5 | 382.0 | 403.5 | 429.4 | 456.3 | 485.4 | 516.7 | 551.8 |
| 145° | 350.7 | 353.4 | 361.7 | 375.5 | 391.2 | 412.3 | 436.3 | 461.1 | 486.9 | 514.5 | 544.0 |
| 147.5° | 365.0 | 366.7 | 374.8 | 386.7 | 401.9 | 419.9 | 441.8 | 464.1 | 486.9 | 511.0 | 536.2 |
| 150° | 374.6 | 375.5 | 382.9 | 394.8 | 407.7 | 424.3 | 445.4 | 464.8 | 486.9 | 508.0 | 531.1 |
| 152.5° | 384.2 | 384.4 | 391.7 | 402.2 | 413.6 | 429.4 | 447.7 | 466.3 | 484.7 | 504.4 | 525.2 |
| 155° | 398.5 | 398.5 | 404.1 | 413.3 | 423.3 | 436.3 | 451.9 | 466.7 | 482.3 | 498.0 | 516.3 |
| 157.5° | 410.0 | 410.7 | 415.1 | 423.2 | 431.8 | 441.8 | 454.3 | 467.5 | 479.2 | 492.3 | 506.4 |
| 160° | 418.7 | 418.7 | 422.5 | 429.8 | 436.3 | 445.4 | 456.5 | 467.5 | 477.7 | 487.8 | 499.8 |
| 162.5° | 425.4 | 425.4 | 428.3 | 434.3 | 440.0 | 447.7 | 457.2 | 466.8 | 474.8 | 483.4 | 493.1 |
| 165° | 435.4 | 434.4 | 436.3 | 440.8 | 444.6 | 451.0 | 458.4 | 464.8 | 470.3 | 476.7 | 484.1 |
| 167.5° | 442.9 | 441.8 | 442.7 | 446.2 | 448.8 | 452.8 | 458.2 | 463.3 | 465.9 | 470.2 | 475.5 |
| 170° | 447.3 | 445.4 | 446.4 | 449.2 | 451.0 | 452.8 | 457.4 | 461.1 | 463.0 | 465.7 | 470.3 |
| 172.5° | 450.3 | 449.2 | 449.3 | 451.4 | 452.5 | 453.6 | 457.4 | 460.4 | 460.7 | 462.0 | 465.2 |
| 175° | 453.8 | 452.8 | 451.9 | 453.8 | 453.8 | 454.7 | 456.5 | 458.4 | 457.4 | 457.4 | 459.3 |
| 177.5° | 455.4 | 454.7 | 453.9 | 454.7 | 454.7 | 454.7 | 455.4 | 456.9 | 455.4 | 454.7 | 455.4 |
| 180° | 454.7 | 454.7 | 454.7 | 454.7 | 454.7 | 454.7 | 454.7 | 454.7 | 454.7 | 454.7 | 454.7 |



TEST NUMBER: P332389-927

CATALOG NUMBER: S123RDIP-S1165D1195U927-4F0-1E-UDD-F4

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1535.4 | 1535.4 | 1535.4 | 1535.4 | 1535.4 | 1535.4 | 1535.4 | 1535.4 |
| 2.5° | 1529.3 | 1531.8 | 1534.1 | 1535.2 | 1534.7 | 1534.3 | 1533.8 | 1533.3 |
| 5° | 1519.2 | 1521.7 | 1524.2 | 1525.1 | 1524.6 | 1524.0 | 1523.4 | 1522.9 |
| 7.5° | 1497.8 | 1499.2 | 1500.6 | 1500.8 | 1499.8 | 1498.9 | 1497.9 | 1497.0 |
| 10° | 1478.7 | 1478.9 | 1479.2 | 1478.7 | 1477.3 | 1475.9 | 1474.5 | 1473.1 |
| 12.5° | 1454.8 | 1454.7 | 1454.5 | 1453.7 | 1452.1 | 1450.4 | 1448.8 | 1447.2 |
| 15° | 1413.1 | 1411.7 | 1410.3 | 1408.7 | 1406.7 | 1404.8 | 1402.8 | 1400.9 |
| 17.5° | 1363.2 | 1360.2 | 1357.2 | 1354.4 | 1351.5 | 1348.6 | 1345.8 | 1342.8 |
| 20° | 1329.0 | 1325.3 | 1321.8 | 1318.3 | 1314.9 | 1311.6 | 1308.4 | 1305.0 |
| 22.5° | 1292.3 | 1287.9 | 1283.3 | 1279.5 | 1276.4 | 1273.4 | 1270.3 | 1267.2 |
| 25° | 1232.4 | 1226.5 | 1220.8 | 1216.3 | 1213.3 | 1210.2 | 1207.2 | 1204.1 |
| 27.5° | 1167.0 | 1159.0 | 1150.9 | 1144.5 | 1139.9 | 1135.3 | 1130.6 | 1125.9 |
| 30° | 1120.5 | 1111.2 | 1101.8 | 1094.9 | 1090.4 | 1086.0 | 1081.6 | 1077.1 |
| 32.5° | 1075.0 | 1064.7 | 1054.4 | 1046.9 | 1042.3 | 1037.6 | 1033.0 | 1028.3 |
| 35° | 1007.3 | 995.4 | 983.5 | 975.0 | 970.0 | 965.0 | 960.0 | 955.1 |
| 37.5° | 934.5 | 921.1 | 907.5 | 897.7 | 891.6 | 885.4 | 879.3 | 873.1 |
| 40° | 884.0 | 869.6 | 855.2 | 844.9 | 838.4 | 832.1 | 825.8 | 819.4 |
| 42.5° | 835.5 | 819.8 | 804.1 | 793.4 | 787.7 | 782.0 | 776.3 | 770.6 |
| 45° | 764.1 | 748.4 | 732.6 | 721.4 | 714.8 | 708.1 | 701.5 | 694.8 |
| 47.5° | 690.4 | 673.3 | 656.1 | 644.6 | 638.7 | 632.7 | 626.8 | 620.9 |
| 50° | 640.6 | 623.4 | 606.3 | 594.5 | 588.2 | 581.8 | 575.4 | 569.1 |
| 52.5° | 592.5 | 574.6 | 556.8 | 545.0 | 539.3 | 533.7 | 528.0 | 522.3 |
| 55° | 520.8 | 504.7 | 488.7 | 477.9 | 472.4 | 466.8 | 461.3 | 455.7 |
| 57.5° | 450.4 | 435.1 | 420.0 | 410.0 | 405.4 | 400.7 | 395.9 | 391.3 |
| 60° | 405.9 | 391.0 | 376.0 | 366.2 | 361.6 | 356.8 | 352.1 | 347.5 |
| 62.5° | 361.9 | 347.8 | 333.7 | 324.3 | 319.3 | 314.4 | 309.5 | 304.6 |
| 65° | 299.1 | 285.6 | 272.0 | 263.7 | 260.7 | 257.6 | 254.6 | 251.5 |
| 67.5° | 239.2 | 229.1 | 219.0 | 212.3 | 209.1 | 205.7 | 202.5 | 199.2 |
| 70° | 202.2 | 192.6 | 182.9 | 176.6 | 173.5 | 170.5 | 167.4 | 164.4 |
| 72.5° | 169.0 | 161.1 | 153.1 | 148.5 | 147.3 | 146.0 | 144.7 | 143.5 |
| 75° | 126.4 | 123.7 | 120.9 | 119.3 | 118.7 | 118.2 | 117.6 | 117.1 |
| 77.5° | 95.4 | 93.9 | 92.4 | 91.3 | 90.8 | 90.2 | 89.7 | 89.1 |
| 80° | 76.8 | 76.0 | 75.1 | 74.5 | 73.9 | 73.4 | 72.8 | 72.2 |
| 82.5° | 58.9 | 58.1 | 57.2 | 56.7 | 56.6 | 56.5 | 56.4 | 56.3 |
| 85° | 33.7 | 33.2 | 32.6 | 32.4 | 32.4 | 32.4 | 32.4 | 32.4 |
| 87.5° | 17.1 | 17.1 | 17.0 | 17.2 | 16.8 | 16.7 | 16.7 | 16.3 |
| 90° | 23.0 | 23.9 | 24.9 | 26.7 | 25.7 | 26.7 | 27.6 | 26.7 |
| 92.5° | 77.5 | 61.5 | 54.3 | 49.5 | 47.8 | 45.1 | 46.0 | 44.4 |
| 95° | 331.4 | 224.6 | 175.8 | 142.7 | 125.2 | 116.9 | 110.4 | 106.8 |
| 97.5° | 825.9 | 661.6 | 542.9 | 432.8 | 364.9 | 323.4 | 298.6 | 290.7 |
| 100° | 1085.1 | 1010.6 | 902.9 | 772.2 | 679.2 | 612.0 | 576.2 | 577.1 |
| 102.5° | 1171.3 | 1168.9 | 1106.1 | 1023.3 | 950.9 | 897.8 | 867.8 | 846.6 |
| 105° | 1196.5 | 1288.6 | 1306.1 | 1282.1 | 1239.8 | 1204.8 | 1175.4 | 1170.8 |
| 107.5° | 1123.9 | 1273.4 | 1354.1 | 1386.9 | 1387.6 | 1375.8 | 1365.9 | 1357.4 |
| 110° | 1054.8 | 1224.2 | 1340.1 | 1404.5 | 1430.3 | 1437.7 | 1435.8 | 1434.0 |



TEST NUMBER: P332389-927

CATALOG NUMBER: S123RDIP-S1165D1195U927-4F0-1E-UDD-F4

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|-------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 986.3 | 1159.4 | 1289.3 | 1372.1 | 1419.3 | 1442.1 | 1449.1 | 1449.5 |
| 115° | 895.6 | 1055.7 | 1191.0 | 1291.3 | 1360.3 | 1400.8 | 1419.3 | 1423.9 |
| 117.5° | 829.8 | 968.0 | 1089.6 | 1191.4 | 1263.4 | 1309.7 | 1336.3 | 1342.5 |
| 120° | 795.2 | 919.5 | 1029.9 | 1122.9 | 1195.6 | 1247.1 | 1269.2 | 1274.8 |
| 122.5° | 767.9 | 880.4 | 982.8 | 1069.1 | 1133.8 | 1180.1 | 1204.4 | 1211.4 |
| 125° | 731.7 | 832.0 | 920.4 | 994.0 | 1053.0 | 1093.4 | 1116.4 | 1122.9 |
| 127.5° | 700.1 | 789.5 | 869.2 | 936.2 | 988.7 | 1023.3 | 1044.1 | 1050.0 |
| 130° | 680.2 | 763.0 | 837.6 | 900.2 | 949.0 | 982.1 | 1001.4 | 1008.8 |
| 132.5° | 661.8 | 738.0 | 807.4 | 867.0 | 912.8 | 945.9 | 963.1 | 968.3 |
| 135° | 636.9 | 702.3 | 762.1 | 814.5 | 859.7 | 887.2 | 903.8 | 910.3 |
| 137.5° | 614.3 | 667.8 | 719.4 | 764.9 | 802.8 | 830.8 | 844.7 | 849.0 |
| 140° | 601.0 | 647.9 | 692.1 | 731.7 | 766.7 | 792.5 | 807.2 | 806.3 |
| 142.5° | 588.5 | 628.8 | 667.1 | 701.6 | 731.3 | 754.2 | 767.4 | 766.5 |
| 145° | 573.4 | 603.8 | 633.3 | 659.9 | 682.9 | 702.3 | 709.6 | 711.5 |
| 147.5° | 561.1 | 585.2 | 609.0 | 627.9 | 645.4 | 658.5 | 665.4 | 666.1 |
| 150° | 552.2 | 573.4 | 592.7 | 610.2 | 624.0 | 634.1 | 639.7 | 639.7 |
| 152.5° | 544.2 | 562.4 | 579.5 | 594.1 | 604.9 | 614.3 | 617.6 | 617.6 |
| 155° | 532.0 | 546.7 | 560.5 | 571.6 | 579.9 | 587.2 | 589.1 | 589.9 |
| 157.5° | 519.1 | 531.5 | 542.1 | 550.7 | 557.9 | 563.5 | 564.9 | 564.7 |
| 160° | 511.7 | 521.9 | 531.1 | 537.5 | 544.0 | 549.5 | 549.5 | 548.6 |
| 162.5° | 502.9 | 511.6 | 520.0 | 525.7 | 530.0 | 534.7 | 534.7 | 533.9 |
| 165° | 491.5 | 497.0 | 503.4 | 508.0 | 511.7 | 515.4 | 514.5 | 514.5 |
| 167.5° | 481.6 | 485.8 | 489.5 | 492.8 | 494.4 | 497.0 | 496.1 | 496.1 |
| 170° | 474.9 | 477.7 | 481.3 | 483.2 | 484.1 | 486.0 | 485.1 | 485.1 |
| 172.5° | 469.1 | 471.0 | 474.0 | 475.1 | 475.3 | 477.1 | 475.5 | 474.8 |
| 175° | 461.1 | 462.0 | 463.9 | 463.9 | 463.9 | 464.8 | 463.9 | 463.0 |
| 177.5° | 456.1 | 456.9 | 457.6 | 457.6 | 456.9 | 457.6 | 456.1 | 456.1 |
| 180° | 454.7 | 454.7 | 454.7 | 454.7 | 454.7 | 454.7 | 454.7 | 454.7 |

(END OF REPORT)