

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: P332060-930

Luminaire Tested: **S123DIP-S1165D585U930-4F0-1E-UDD-F**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P332060-930  
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: S123DIP-S1165D585U930-4F0-1E-UDD-F  
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 1165 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER  
UPLIGHT 585 LUMENS PER FOOT, NO LENS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

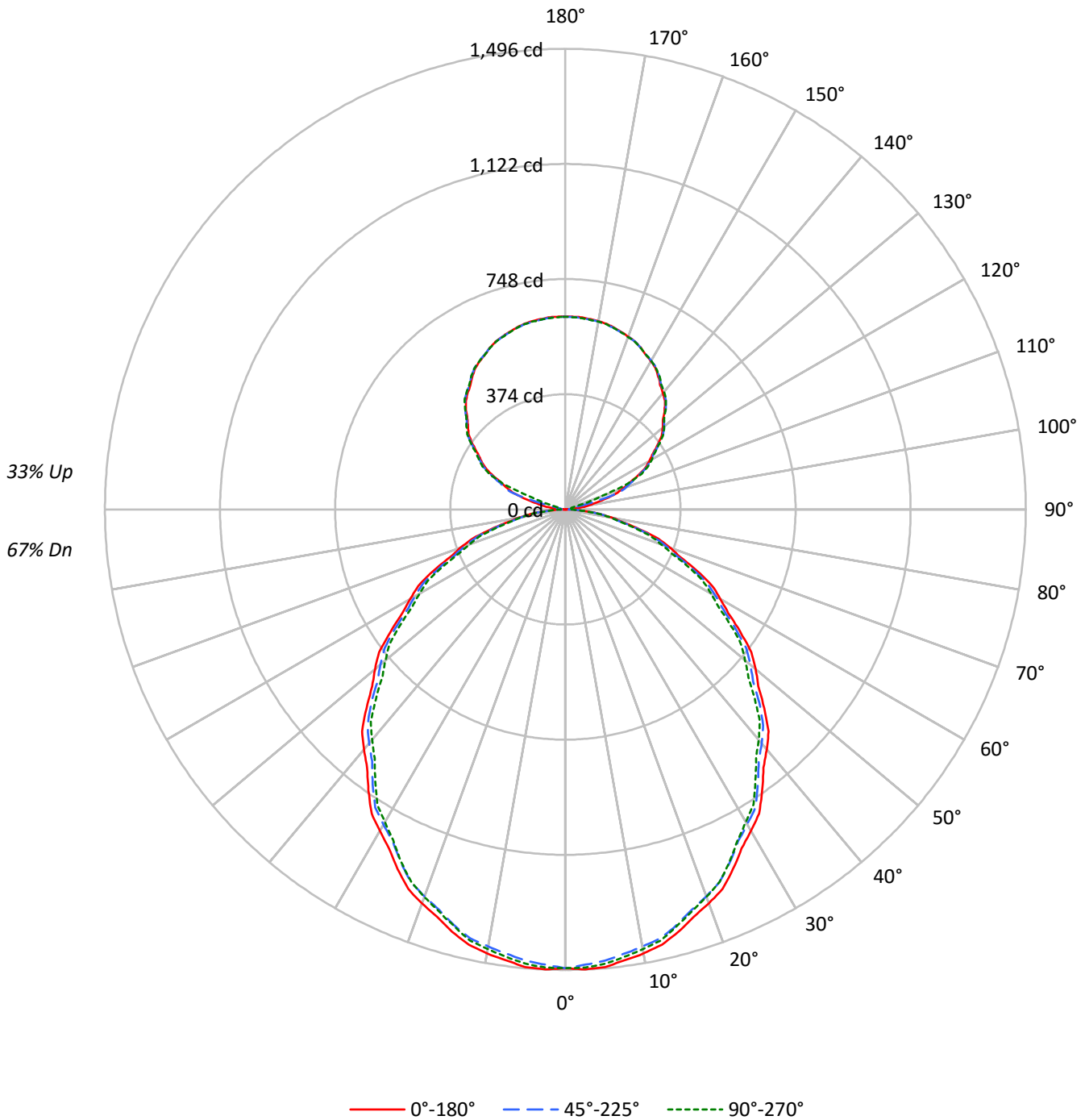
Lumens per Lamp: N/A  
Luminaire Lumens: 5788.8 lumens  
Efficiency: N/A  
Efficacy: 105.1 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.18 / 1.31  
Luminous Opening: Rectangular (W 0.25' x L: 4' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 55.1  
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: P332060-930  
CATALOG NUMBER: S123DIP-S1165D585U930-4F0-1E-UDD-F

### Luminous Intensity Polar Plot





TEST NUMBER: P332060-930

CATALOG NUMBER: S123DIP-S1165D585U930-4F0-1E-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   | 111 | 111 | 111 | 111 | 105 | 105 | 105 | 105 | 93 | 93 | 93 | 82 | 82 | 82 | 72 | 72 | 72 | 67 |
| 1   | 102 | 97  | 93  | 89  | 95  | 92  | 88  | 85  | 81 | 79 | 76 | 72 | 70 | 68 | 63 | 62 | 60 | 56 |
| 2   | 92  | 85  | 78  | 73  | 87  | 80  | 74  | 70  | 71 | 67 | 63 | 63 | 60 | 57 | 56 | 53 | 51 | 47 |
| 3   | 84  | 74  | 67  | 61  | 79  | 70  | 64  | 58  | 63 | 57 | 53 | 56 | 52 | 48 | 49 | 46 | 43 | 40 |
| 4   | 77  | 66  | 58  | 52  | 72  | 62  | 55  | 49  | 56 | 50 | 45 | 50 | 45 | 41 | 44 | 40 | 37 | 34 |
| 5   | 71  | 59  | 50  | 44  | 67  | 56  | 48  | 43  | 50 | 44 | 39 | 45 | 40 | 36 | 40 | 36 | 32 | 30 |
| 6   | 65  | 53  | 45  | 39  | 61  | 50  | 43  | 37  | 45 | 39 | 34 | 40 | 35 | 31 | 36 | 32 | 29 | 26 |
| 7   | 61  | 48  | 40  | 34  | 57  | 46  | 38  | 33  | 41 | 35 | 30 | 37 | 32 | 28 | 33 | 29 | 25 | 23 |
| 8   | 56  | 44  | 36  | 30  | 53  | 41  | 34  | 29  | 38 | 31 | 27 | 34 | 29 | 25 | 30 | 26 | 23 | 21 |
| 9   | 52  | 40  | 32  | 27  | 49  | 38  | 31  | 26  | 34 | 28 | 24 | 31 | 26 | 22 | 28 | 24 | 21 | 19 |
| 10  | 49  | 37  | 29  | 24  | 46  | 35  | 28  | 23  | 32 | 26 | 22 | 29 | 24 | 20 | 26 | 22 | 19 | 17 |

**AVERAGE LUMINANCE (cd/sqm):**

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 16043 | 16043 | 16043 |
| 5°  | 16119 | 15896 | 16008 |
| 10° | 16010 | 15759 | 15856 |
| 15° | 15824 | 15581 | 15610 |
| 20° | 15605 | 15326 | 15340 |
| 25° | 15311 | 15023 | 14992 |
| 30° | 14989 | 14686 | 14574 |
| 35° | 14651 | 14331 | 14146 |
| 40° | 14299 | 13939 | 13722 |
| 45° | 13910 | 13577 | 13247 |
| 50° | 13520 | 13134 | 12769 |
| 55° | 13011 | 12675 | 12288 |
| 60° | 12499 | 12140 | 11752 |
| 65° | 12045 | 11556 | 11196 |
| 70° | 11374 | 10889 | 10408 |
| 75° | 10393 | 10019 | 9590  |
| 80° | 9372  | 8976  | 8901  |
| 85° | 8225  | 7916  | 7608  |



TEST NUMBER: P332060-930

CATALOG NUMBER: S123DIP-S1165D585U930-4F0-1E-UDD-F

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 140.4  | 2.4       |
| 10°-20°   | 396.4  | 6.8       |
| 20°-30°   | 585.6  | 10.1      |
| 30°-40°   | 684.0  | 11.8      |
| 40°-50°   | 687.7  | 11.9      |
| 50°-60°   | 604.1  | 10.4      |
| 60°-70°   | 450.0  | 7.8       |
| 70°-80°   | 256.4  | 4.4       |
| 80°-90°   | 75.4   | 1.3       |
| 90°-100°  | 22.8   | 0.4       |
| 100°-110° | 108.4  | 1.9       |
| 110°-120° | 260.5  | 4.5       |
| 120°-130° | 331.7  | 5.7       |
| 130°-140° | 354.4  | 6.1       |
| 140°-150° | 331.4  | 5.7       |
| 150°-160° | 267.4  | 4.6       |
| 160°-170° | 172.6  | 3.0       |
| 170°-180° | 59.5   | 1.0       |
| 0°-30°    | 1122.4 | 19.4      |
| 0°-40°    | 1806.5 | 31.2      |
| 0°-60°    | 3098.3 | 53.5      |
| 0°-90°    | 3880.1 | 67.0      |
| 90°-120°  | 391.7  | 6.8       |
| 90°-150°  | 1409.3 | 24.3      |
| 90°-180°  | 1909.0 | 33.0      |
| 0°-180°   | 5788.8 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 1490 | 1490  | 1490 | 1490  | 1490 |      |
| 5°   | 1492 | 1485  | 1471 | 1483  | 1482 | 141  |
| 15°  | 1420 | 1414  | 1398 | 1407  | 1401 | 400  |
| 25°  | 1289 | 1281  | 1265 | 1266  | 1262 | 594  |
| 35°  | 1115 | 1107  | 1091 | 1083  | 1076 | 697  |
| 45°  | 914  | 908   | 892  | 877   | 870  | 705  |
| 55°  | 693  | 691   | 675  | 662   | 655  | 621  |
| 65°  | 473  | 466   | 454  | 444   | 440  | 466  |
| 75°  | 250  | 245   | 241  | 235   | 231  | 267  |
| 85°  | 67   | 64    | 64   | 62    | 62   | 73   |
| 90°  | 0    | 5     | 11   | 13    | 14   | 5    |
| 95°  | 28   | 11    | 14   | 18    | 18   | 35   |
| 105° | 139  | 141   | 102  | 24    | 20   | 147  |
| 115° | 260  | 263   | 267  | 271   | 274  | 257  |
| 125° | 366  | 370   | 372  | 373   | 374  | 327  |
| 135° | 456  | 459   | 461  | 462   | 461  | 351  |
| 145° | 526  | 530   | 531  | 531   | 532  | 329  |
| 155° | 580  | 579   | 579  | 581   | 579  | 267  |
| 165° | 612  | 610   | 610  | 613   | 610  | 173  |
| 175° | 626  | 624   | 624  | 627   | 624  | 60   |
| 180° | 626  | 626   | 626  | 626   | 626  |      |



TEST NUMBER: P332060-930

CATALOG NUMBER: S123DIP-S1165D585U930-4F0-1E-UDD-F

**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1490.4 | 1490.4 | 1490.4 | 1490.4 | 1490.4 | 1490.4 | 1490.4 | 1490.4 | 1490.4 | 1490.4 | 1490.4 |
| 2.5°   | 1495.6 | 1494.7 | 1493.8 | 1492.9 | 1491.9 | 1490.2 | 1487.8 | 1485.2 | 1482.7 | 1480.2 | 1482.5 |
| 5°     | 1491.8 | 1490.4 | 1488.9 | 1487.5 | 1486.0 | 1483.8 | 1480.7 | 1477.5 | 1474.4 | 1471.2 | 1474.1 |
| 7.5°   | 1477.2 | 1475.7 | 1474.3 | 1472.8 | 1471.5 | 1469.1 | 1465.8 | 1462.6 | 1459.4 | 1456.1 | 1458.7 |
| 10°    | 1464.8 | 1463.4 | 1462.0 | 1460.5 | 1459.1 | 1456.6 | 1452.9 | 1449.2 | 1445.4 | 1441.8 | 1444.3 |
| 12.5°  | 1448.5 | 1447.2 | 1446.0 | 1444.9 | 1443.7 | 1441.3 | 1437.9 | 1434.4 | 1430.9 | 1427.4 | 1429.3 |
| 15°    | 1420.0 | 1418.9 | 1417.7 | 1416.6 | 1415.4 | 1413.0 | 1409.3 | 1405.6 | 1401.9 | 1398.2 | 1400.4 |
| 17.5°  | 1386.9 | 1385.4 | 1384.0 | 1382.5 | 1381.0 | 1378.4 | 1374.7 | 1371.0 | 1367.3 | 1363.6 | 1365.2 |
| 20°    | 1362.3 | 1360.6 | 1358.9 | 1357.1 | 1355.5 | 1352.7 | 1349.1 | 1345.4 | 1341.7 | 1338.0 | 1339.1 |
| 22.5°  | 1334.6 | 1332.9 | 1331.2 | 1329.5 | 1327.8 | 1325.1 | 1321.4 | 1317.7 | 1314.0 | 1310.3 | 1311.2 |
| 25°    | 1289.2 | 1287.5 | 1285.8 | 1284.1 | 1282.5 | 1279.7 | 1276.0 | 1272.4 | 1268.6 | 1264.9 | 1265.2 |
| 27.5°  | 1240.8 | 1239.2 | 1237.5 | 1235.8 | 1234.2 | 1231.4 | 1227.4 | 1223.4 | 1219.4 | 1215.4 | 1215.7 |
| 30°    | 1206.0 | 1204.5 | 1203.1 | 1201.7 | 1200.3 | 1197.6 | 1193.6 | 1189.6 | 1185.6 | 1181.6 | 1181.6 |
| 32.5°  | 1171.1 | 1169.2 | 1167.3 | 1165.5 | 1163.6 | 1161.1 | 1158.1 | 1155.0 | 1151.9 | 1148.8 | 1147.2 |
| 35°    | 1115.0 | 1113.3 | 1111.6 | 1109.9 | 1108.2 | 1105.5 | 1101.7 | 1098.0 | 1094.3 | 1090.6 | 1088.9 |
| 37.5°  | 1057.5 | 1055.4 | 1053.2 | 1051.1 | 1048.9 | 1045.9 | 1042.2 | 1038.4 | 1034.7 | 1030.9 | 1028.8 |
| 40°    | 1017.6 | 1015.9 | 1014.2 | 1012.4 | 1010.7 | 1007.9 | 1003.9 | 999.9  | 995.9  | 992.0  | 989.7  |
| 42.5°  | 977.5  | 975.7  | 973.7  | 971.8  | 969.8  | 966.9  | 962.9  | 958.9  | 954.9  | 951.0  | 948.7  |
| 45°    | 913.8  | 912.6  | 911.5  | 910.4  | 909.2  | 906.8  | 903.1  | 899.4  | 895.7  | 891.9  | 888.6  |
| 47.5°  | 850.4  | 848.8  | 847.2  | 845.5  | 843.8  | 841.3  | 837.8  | 834.3  | 830.9  | 827.4  | 824.0  |
| 50°    | 807.4  | 806.0  | 804.5  | 803.2  | 801.7  | 799.2  | 795.4  | 791.7  | 788.0  | 784.3  | 781.2  |
| 52.5°  | 762.3  | 761.3  | 760.3  | 759.4  | 758.4  | 755.9  | 752.0  | 748.1  | 744.2  | 740.2  | 737.5  |
| 55°    | 693.3  | 693.1  | 692.8  | 692.5  | 692.2  | 690.2  | 686.5  | 682.8  | 679.1  | 675.4  | 672.3  |
| 57.5°  | 627.7  | 626.7  | 625.7  | 624.8  | 623.9  | 621.9  | 618.9  | 616.0  | 613.0  | 610.0  | 607.2  |
| 60°    | 580.6  | 580.2  | 580.0  | 579.7  | 579.4  | 577.6  | 574.1  | 570.7  | 567.3  | 563.9  | 561.3  |
| 62.5°  | 538.5  | 537.8  | 537.0  | 536.3  | 535.6  | 533.5  | 530.0  | 526.6  | 523.3  | 519.8  | 517.2  |
| 65°    | 472.9  | 471.5  | 470.0  | 468.6  | 467.2  | 465.0  | 462.2  | 459.3  | 456.5  | 453.7  | 451.4  |
| 67.5°  | 403.4  | 402.2  | 401.0  | 399.7  | 398.4  | 396.7  | 394.5  | 392.4  | 390.2  | 388.1  | 386.0  |
| 70°    | 361.4  | 359.7  | 358.0  | 356.3  | 354.6  | 352.9  | 351.1  | 349.4  | 347.7  | 346.0  | 344.1  |
| 72.5°  | 317.3  | 316.1  | 314.8  | 313.6  | 312.3  | 310.7  | 308.8  | 306.8  | 304.9  | 303.0  | 301.2  |
| 75°    | 249.9  | 248.7  | 247.6  | 246.5  | 245.3  | 244.3  | 243.5  | 242.6  | 241.8  | 240.9  | 239.5  |
| 77.5°  | 190.2  | 189.6  | 188.9  | 188.3  | 187.7  | 186.9  | 185.8  | 184.8  | 183.8  | 182.8  | 181.8  |
| 80°    | 151.2  | 150.3  | 149.5  | 148.6  | 147.8  | 147.1  | 146.5  | 145.9  | 145.4  | 144.8  | 144.6  |
| 82.5°  | 113.3  | 113.1  | 112.9  | 112.8  | 112.6  | 112.4  | 112.3  | 112.3  | 112.1  | 112.0  | 111.5  |
| 85°    | 66.6   | 66.0   | 65.5   | 64.9   | 64.3   | 64.1   | 64.1   | 64.1   | 64.1   | 64.1   | 63.5   |
| 87.5°  | 26.7   | 26.3   | 25.8   | 25.4   | 24.9   | 24.6   | 24.7   | 24.7   | 24.8   | 24.8   | 24.6   |
| 90°    | 0.5    | 1.5    | 2.5    | 3.6    | 4.6    | 5.8    | 7.1    | 8.5    | 9.8    | 11.2   | 11.6   |
| 92.5°  | 8.6    | 8.4    | 8.1    | 7.7    | 7.5    | 7.8    | 8.9    | 9.9    | 10.9   | 11.9   | 12.6   |
| 95°    | 28.4   | 24.1   | 19.9   | 15.7   | 11.4   | 9.9    | 11.0   | 12.1   | 13.3   | 14.4   | 15.2   |
| 97.5°  | 57.0   | 55.1   | 53.2   | 51.3   | 49.4   | 44.8   | 37.3   | 29.8   | 22.4   | 15.0   | 15.8   |
| 100°   | 78.6   | 80.6   | 82.8   | 84.8   | 86.8   | 79.8   | 63.7   | 47.6   | 31.5   | 15.3   | 16.1   |
| 102.5° | 103.1  | 104.6  | 106.2  | 107.6  | 109.1  | 101.0  | 83.4   | 65.8   | 48.2   | 30.6   | 28.0   |
| 105°   | 138.6  | 139.7  | 140.9  | 141.9  | 143.1  | 139.0  | 129.7  | 120.4  | 111.1  | 101.8  | 83.6   |
| 107.5° | 175.9  | 176.8  | 177.8  | 178.7  | 179.6  | 180.8  | 182.2  | 183.7  | 185.2  | 186.6  | 173.3  |
| 110°   | 200.9  | 201.7  | 202.5  | 203.3  | 204.2  | 205.2  | 206.3  | 207.4  | 208.6  | 209.7  | 206.3  |



TEST NUMBER: P332060-930

CATALOG NUMBER: S123DIP-S1165D585U930-4F0-1E-UDD-F

**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 5°    | 10°   | 15°   | 20°   | 25°   | 30°   | 35°   | 40°   | 45°   | 50°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 224.7 | 225.4 | 226.2 | 226.9 | 227.6 | 228.6 | 229.8 | 230.9 | 232.0 | 233.2 | 233.3 |
| 115°   | 259.9 | 260.6 | 261.1 | 261.8 | 262.4 | 263.2 | 264.2 | 265.1 | 266.0 | 266.9 | 268.0 |
| 117.5° | 294.1 | 294.8 | 295.6 | 296.4 | 297.1 | 297.7 | 298.2 | 298.7 | 299.2 | 299.6 | 300.5 |
| 120°   | 315.3 | 316.2 | 317.2 | 318.0 | 319.0 | 319.6 | 319.9 | 320.2 | 320.6 | 320.8 | 321.7 |
| 122.5° | 336.9 | 337.6 | 338.3 | 339.2 | 339.9 | 340.5 | 340.9 | 341.3 | 341.7 | 342.1 | 342.7 |
| 125°   | 366.4 | 367.3 | 368.1 | 368.9 | 369.7 | 370.4 | 370.8 | 371.2 | 371.6 | 372.0 | 372.2 |
| 127.5° | 395.1 | 395.9 | 396.7 | 397.5 | 398.4 | 399.0 | 399.5 | 400.1 | 400.6 | 401.0 | 401.4 |
| 130°   | 412.9 | 413.8 | 414.6 | 415.4 | 416.2 | 416.9 | 417.3 | 417.7 | 418.1 | 418.5 | 418.9 |
| 132.5° | 430.1 | 430.9 | 431.7 | 432.5 | 433.3 | 433.9 | 434.2 | 434.6 | 434.9 | 435.3 | 435.7 |
| 135°   | 456.2 | 456.8 | 457.4 | 458.0 | 458.7 | 459.2 | 459.6 | 460.0 | 460.4 | 460.8 | 461.1 |
| 137.5° | 478.5 | 479.3 | 480.0 | 480.9 | 481.6 | 482.2 | 482.3 | 482.6 | 482.8 | 483.1 | 483.6 |
| 140°   | 493.3 | 494.0 | 494.6 | 495.2 | 495.9 | 496.4 | 496.6 | 496.9 | 497.3 | 497.6 | 498.0 |
| 142.5° | 507.1 | 507.8 | 508.4 | 509.0 | 509.6 | 510.1 | 510.4 | 510.7 | 511.0 | 511.4 | 511.7 |
| 145°   | 526.4 | 527.1 | 527.8 | 528.6 | 529.3 | 529.8 | 529.9 | 530.2 | 530.4 | 530.6 | 530.8 |
| 147.5° | 544.5 | 545.0 | 545.5 | 545.9 | 546.4 | 546.7 | 547.0 | 547.1 | 547.4 | 547.6 | 547.8 |
| 150°   | 555.7 | 556.0 | 556.3 | 556.6 | 556.9 | 557.2 | 557.4 | 557.6 | 557.8 | 558.0 | 558.2 |
| 152.5° | 565.7 | 565.9 | 566.0 | 566.1 | 566.3 | 566.5 | 566.6 | 566.7 | 566.8 | 567.0 | 567.3 |
| 155°   | 579.8 | 579.7 | 579.4 | 579.3 | 579.0 | 579.0 | 579.1 | 579.2 | 579.3 | 579.4 | 579.9 |
| 157.5° | 590.8 | 590.8 | 590.8 | 590.8 | 590.8 | 590.7 | 590.6 | 590.5 | 590.4 | 590.3 | 590.9 |
| 160°   | 597.5 | 597.5 | 597.4 | 597.2 | 597.1 | 597.0 | 596.9 | 596.8 | 596.7 | 596.6 | 597.2 |
| 162.5° | 603.9 | 603.6 | 603.3 | 603.1 | 602.8 | 602.6 | 602.5 | 602.4 | 602.3 | 602.2 | 602.9 |
| 165°   | 611.5 | 611.1 | 610.9 | 610.6 | 610.3 | 610.0 | 609.9 | 609.8 | 609.8 | 609.6 | 610.5 |
| 167.5° | 617.4 | 617.0 | 616.6 | 616.2 | 615.8 | 615.6 | 615.6 | 615.6 | 615.6 | 615.6 | 616.4 |
| 170°   | 620.8 | 620.4 | 620.0 | 619.5 | 619.1 | 618.9 | 618.9 | 618.9 | 618.9 | 618.9 | 619.8 |
| 172.5° | 623.1 | 622.6 | 622.0 | 621.5 | 621.0 | 620.9 | 620.9 | 621.0 | 621.1 | 621.2 | 622.0 |
| 175°   | 625.9 | 625.4 | 624.8 | 624.4 | 623.9 | 623.6 | 623.7 | 623.9 | 623.9 | 624.0 | 624.8 |
| 177.5° | 626.6 | 626.2 | 625.8 | 625.4 | 625.0 | 624.8 | 624.9 | 625.0 | 625.1 | 625.2 | 625.8 |
| 180°   | 625.9 | 625.9 | 625.9 | 625.9 | 625.9 | 625.9 | 625.9 | 625.9 | 625.9 | 625.9 | 625.9 |



TEST NUMBER: P332060-930

CATALOG NUMBER: S123DIP-S1165D585U930-4F0-1E-UDD-F

**CANDELA DISTRIBUTION (continued):**

|        | 55°    | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1490.4 | 1490.4 | 1490.4 | 1490.4 | 1490.4 | 1490.4 | 1490.4 | 1490.4 |
| 2.5°   | 1484.7 | 1487.0 | 1489.3 | 1490.4 | 1490.1 | 1489.9 | 1489.6 | 1489.5 |
| 5°     | 1476.9 | 1479.8 | 1482.6 | 1483.8 | 1483.2 | 1482.6 | 1482.1 | 1481.5 |
| 7.5°   | 1461.3 | 1463.8 | 1466.4 | 1467.5 | 1467.1 | 1466.8 | 1466.5 | 1466.2 |
| 10°    | 1446.9 | 1449.4 | 1452.0 | 1453.0 | 1452.5 | 1451.9 | 1451.3 | 1450.7 |
| 12.5°  | 1431.2 | 1433.1 | 1434.9 | 1435.7 | 1435.3 | 1435.0 | 1434.7 | 1434.4 |
| 15°    | 1402.7 | 1405.0 | 1407.3 | 1407.6 | 1405.9 | 1404.2 | 1402.5 | 1400.8 |
| 17.5°  | 1366.8 | 1368.4 | 1369.9 | 1370.4 | 1369.9 | 1369.2 | 1368.6 | 1368.0 |
| 20°    | 1340.3 | 1341.4 | 1342.6 | 1342.6 | 1341.8 | 1340.9 | 1340.1 | 1339.2 |
| 22.5°  | 1312.1 | 1313.0 | 1313.9 | 1313.9 | 1312.8 | 1311.7 | 1310.6 | 1309.5 |
| 25°    | 1265.5 | 1265.8 | 1266.1 | 1265.8 | 1264.9 | 1264.0 | 1263.2 | 1262.3 |
| 27.5°  | 1215.9 | 1216.1 | 1216.3 | 1215.9 | 1214.9 | 1213.7 | 1212.7 | 1211.6 |
| 30°    | 1181.6 | 1181.6 | 1181.6 | 1180.6 | 1178.6 | 1176.6 | 1174.6 | 1172.6 |
| 32.5°  | 1145.6 | 1144.0 | 1142.4 | 1141.1 | 1140.0 | 1138.9 | 1137.8 | 1136.8 |
| 35°    | 1087.2 | 1085.5 | 1083.8 | 1082.2 | 1080.8 | 1079.4 | 1077.9 | 1076.5 |
| 37.5°  | 1026.8 | 1024.7 | 1022.7 | 1021.2 | 1020.3 | 1019.4 | 1018.5 | 1017.6 |
| 40°    | 987.4  | 985.1  | 982.8  | 981.1  | 980.0  | 978.8  | 977.7  | 976.6  |
| 42.5°  | 946.4  | 944.1  | 941.8  | 940.1  | 939.0  | 937.8  | 936.7  | 935.6  |
| 45°    | 885.2  | 881.7  | 878.3  | 875.9  | 874.5  | 873.0  | 871.6  | 870.2  |
| 47.5°  | 820.7  | 817.3  | 813.9  | 811.6  | 810.4  | 809.1  | 807.9  | 806.7  |
| 50°    | 778.0  | 774.9  | 771.8  | 769.4  | 767.7  | 766.0  | 764.3  | 762.5  |
| 52.5°  | 734.9  | 732.2  | 729.5  | 727.3  | 725.6  | 723.9  | 722.2  | 720.5  |
| 55°    | 669.1  | 666.0  | 662.8  | 660.6  | 659.2  | 657.7  | 656.3  | 654.8  |
| 57.5°  | 604.5  | 601.7  | 598.8  | 596.6  | 595.0  | 593.4  | 591.7  | 590.0  |
| 60°    | 558.8  | 556.2  | 553.7  | 551.6  | 550.2  | 548.8  | 547.4  | 545.9  |
| 62.5°  | 514.7  | 512.1  | 509.6  | 507.8  | 506.8  | 505.8  | 504.9  | 503.9  |
| 65°    | 449.1  | 446.9  | 444.6  | 443.0  | 442.1  | 441.3  | 440.4  | 439.6  |
| 67.5°  | 384.1  | 382.0  | 380.1  | 378.5  | 377.3  | 376.1  | 374.9  | 373.7  |
| 70°    | 342.0  | 340.1  | 338.0  | 336.3  | 334.9  | 333.5  | 332.1  | 330.7  |
| 72.5°  | 299.5  | 297.7  | 295.9  | 294.6  | 293.9  | 293.2  | 292.4  | 291.7  |
| 75°    | 238.1  | 236.7  | 235.2  | 234.1  | 233.3  | 232.4  | 231.5  | 230.6  |
| 77.5°  | 180.8  | 179.9  | 178.9  | 178.4  | 178.4  | 178.4  | 178.4  | 178.4  |
| 80°    | 144.2  | 144.0  | 143.7  | 143.6  | 143.6  | 143.6  | 143.6  | 143.6  |
| 82.5°  | 111.0  | 110.5  | 110.0  | 109.6  | 109.3  | 109.2  | 108.9  | 108.7  |
| 85°    | 62.9   | 62.4   | 61.8   | 61.6   | 61.6   | 61.6   | 61.6   | 61.6   |
| 87.5°  | 24.5   | 24.4   | 24.2   | 24.1   | 24.2   | 24.2   | 24.3   | 24.3   |
| 90°    | 12.0   | 12.4   | 12.8   | 13.1   | 13.4   | 13.5   | 13.8   | 13.9   |
| 92.5°  | 13.2   | 13.9   | 14.5   | 14.9   | 15.1   | 15.2   | 15.3   | 15.4   |
| 95°    | 15.9   | 16.6   | 17.3   | 17.7   | 17.7   | 17.7   | 17.7   | 17.7   |
| 97.5°  | 16.6   | 17.4   | 18.3   | 18.8   | 18.8   | 18.9   | 19.1   | 19.2   |
| 100°   | 17.0   | 17.9   | 18.7   | 19.1   | 19.2   | 19.3   | 19.4   | 19.6   |
| 102.5° | 25.4   | 22.9   | 20.4   | 19.2   | 19.3   | 19.6   | 19.7   | 19.9   |
| 105°   | 65.2   | 47.0   | 28.7   | 19.6   | 19.8   | 20.1   | 20.2   | 20.5   |
| 107.5° | 159.8  | 146.4  | 133.0  | 119.4  | 105.6  | 91.8   | 78.0   | 64.2   |
| 110°   | 202.9  | 199.5  | 196.1  | 186.9  | 172.2  | 157.4  | 142.7  | 127.8  |





TEST NUMBER: P332060-930

CATALOG NUMBER: S123DIP-S1165D585U930-4F0-1E-UDD-F

**CANDELA DISTRIBUTION (continued):**

|        | 55°   | 60°   | 65°   | 70°   | 75°   | 80°   | 85°   | 90°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 233.3 | 233.3 | 233.4 | 231.9 | 228.8 | 225.6 | 222.5 | 219.4 |
| 115°   | 269.0 | 270.0 | 271.1 | 271.7 | 272.1 | 272.6 | 273.0 | 273.5 |
| 117.5° | 301.3 | 302.1 | 303.0 | 303.5 | 303.5 | 303.6 | 303.7 | 303.8 |
| 120°   | 322.5 | 323.3 | 324.2 | 324.6 | 324.6 | 324.6 | 324.6 | 324.6 |
| 122.5° | 343.2 | 343.8 | 344.4 | 344.7 | 344.8 | 344.9 | 345.0 | 345.0 |
| 125°   | 372.4 | 372.6 | 372.8 | 373.1 | 373.2 | 373.5 | 373.7 | 373.9 |
| 127.5° | 401.7 | 402.0 | 402.4 | 402.4 | 402.2 | 402.0 | 401.8 | 401.6 |
| 130°   | 419.3 | 419.7 | 420.1 | 420.3 | 420.0 | 419.9 | 419.6 | 419.5 |
| 132.5° | 436.1 | 436.5 | 436.9 | 437.0 | 436.7 | 436.3 | 436.1 | 435.8 |
| 135°   | 461.5 | 461.8 | 462.0 | 462.0 | 461.8 | 461.5 | 461.1 | 460.8 |
| 137.5° | 484.0 | 484.5 | 485.0 | 485.2 | 484.9 | 484.8 | 484.5 | 484.4 |
| 140°   | 498.4 | 498.8 | 499.2 | 499.3 | 499.1 | 498.9 | 498.7 | 498.5 |
| 142.5° | 512.0 | 512.3 | 512.7 | 512.7 | 512.4 | 512.1 | 511.8 | 511.5 |
| 145°   | 531.0 | 531.2 | 531.4 | 531.5 | 531.5 | 531.5 | 531.5 | 531.5 |
| 147.5° | 548.0 | 548.2 | 548.5 | 548.3 | 547.8 | 547.3 | 546.9 | 546.4 |
| 150°   | 558.4 | 558.6 | 558.8 | 558.8 | 558.5 | 558.2 | 557.8 | 557.6 |
| 152.5° | 567.7 | 568.0 | 568.4 | 568.3 | 567.9 | 567.4 | 567.0 | 566.5 |
| 155°   | 580.4 | 581.0 | 581.5 | 581.4 | 580.8 | 580.2 | 579.6 | 578.9 |
| 157.5° | 591.5 | 592.2 | 592.8 | 592.6 | 591.8 | 591.1 | 590.3 | 589.5 |
| 160°   | 597.9 | 598.4 | 599.1 | 599.0 | 598.3 | 597.6 | 596.9 | 596.1 |
| 162.5° | 603.6 | 604.3 | 605.0 | 605.0 | 604.4 | 603.7 | 603.1 | 602.5 |
| 165°   | 611.3 | 612.1 | 612.9 | 613.0 | 612.3 | 611.6 | 610.8 | 610.1 |
| 167.5° | 617.3 | 618.1 | 618.9 | 618.9 | 618.1 | 617.3 | 616.4 | 615.6 |
| 170°   | 620.6 | 621.4 | 622.2 | 622.2 | 621.4 | 620.6 | 619.8 | 618.9 |
| 172.5° | 622.8 | 623.6 | 624.4 | 624.4 | 623.5 | 622.6 | 621.7 | 620.8 |
| 175°   | 625.5 | 626.2 | 627.0 | 626.9 | 626.1 | 625.3 | 624.4 | 623.5 |
| 177.5° | 626.5 | 627.1 | 627.8 | 627.7 | 626.9 | 626.1 | 625.3 | 624.4 |
| 180°   | 625.9 | 625.9 | 625.9 | 625.9 | 625.9 | 625.9 | 625.9 | 625.9 |

(END OF REPORT)