

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: P332053-927

Luminaire Tested: **S123DIP-S1165D365U927-4F0-1E-UDD-F4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332053-927
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: S123DIP-S1165D365U927-4F0-1E-UDD-F4
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 1165 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
UPLIGHT 365 LUMENS PER FOOT, BATWING OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4809.9 lumens
Efficiency: N/A
Efficacy: 96.6 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

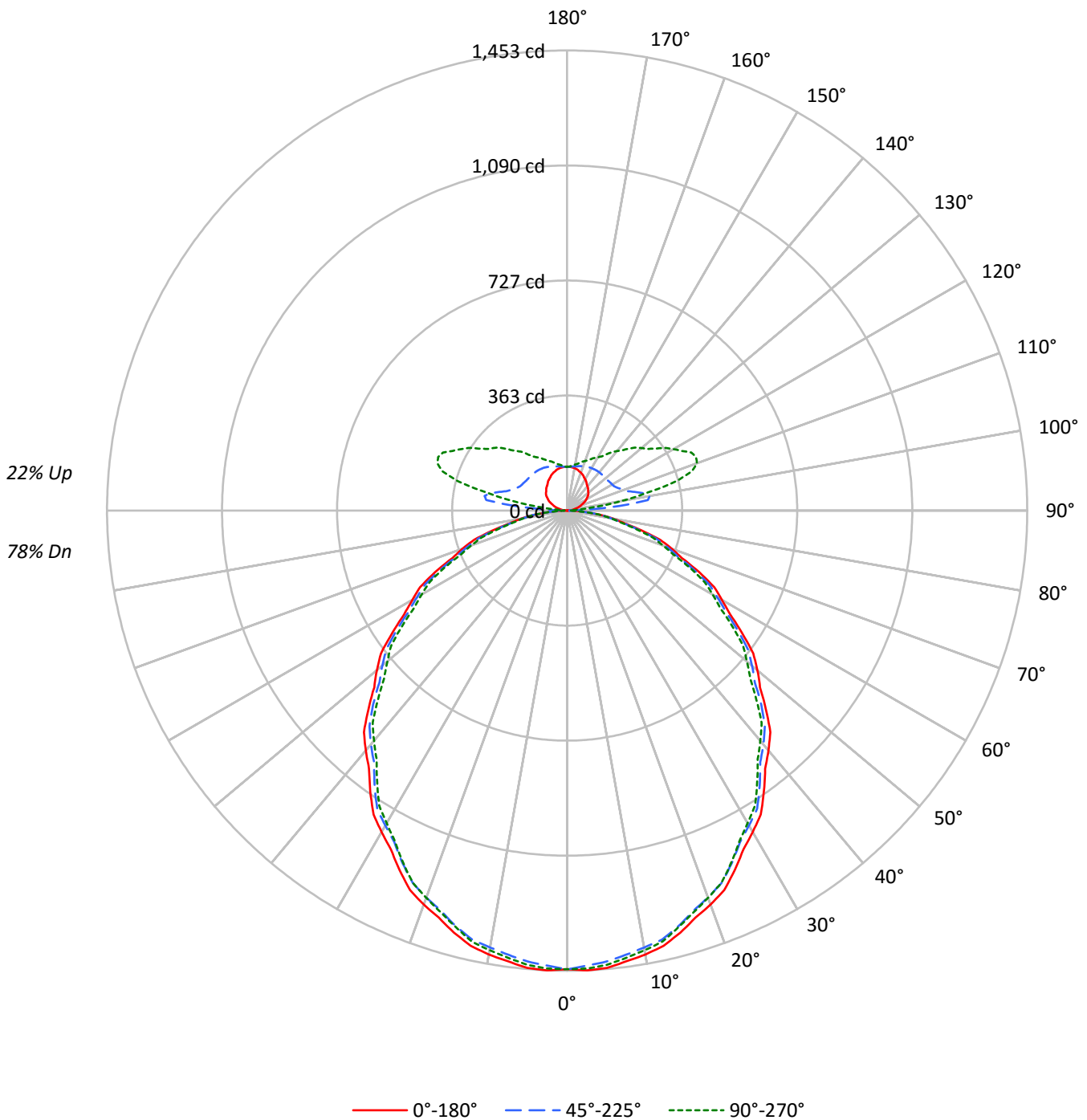
Input Watts (W): 49.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P332053-927

CATALOG NUMBER: S123DIP-S1165D365U927-4F0-1E-UDD-F4

Luminous Intensity Polar Plot





TEST NUMBER: P332053-927

CATALOG NUMBER: S123DIP-S1165D365U927-4F0-1E-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 | 114 | 114 | 114 | 114 | 109 | 109 | 109 | 109 | 99 | 99 | 99 | 90 | 90 | 90 | 82 | 82 | 82 | 78 |
| 1 | 104 | 99 | 95 | 92 | 99 | 95 | 91 | 88 | 87 | 84 | 81 | 79 | 77 | 75 | 73 | 71 | 69 | 66 |
| 2 | 95 | 87 | 80 | 75 | 90 | 83 | 77 | 72 | 76 | 72 | 67 | 70 | 66 | 63 | 64 | 61 | 58 | 55 |
| 3 | 86 | 76 | 69 | 62 | 82 | 73 | 66 | 61 | 67 | 61 | 57 | 62 | 57 | 53 | 57 | 53 | 50 | 47 |
| 4 | 79 | 68 | 59 | 53 | 75 | 65 | 57 | 51 | 60 | 53 | 48 | 55 | 50 | 46 | 51 | 46 | 43 | 40 |
| 5 | 73 | 61 | 52 | 46 | 69 | 58 | 50 | 44 | 54 | 47 | 42 | 49 | 44 | 40 | 46 | 41 | 37 | 35 |
| 6 | 67 | 54 | 46 | 40 | 64 | 52 | 44 | 39 | 48 | 42 | 37 | 45 | 39 | 35 | 41 | 37 | 33 | 30 |
| 7 | 62 | 49 | 41 | 35 | 59 | 48 | 40 | 34 | 44 | 37 | 33 | 41 | 35 | 31 | 38 | 33 | 29 | 27 |
| 8 | 58 | 45 | 37 | 31 | 55 | 43 | 36 | 30 | 40 | 34 | 29 | 37 | 32 | 28 | 35 | 30 | 26 | 24 |
| 9 | 54 | 41 | 33 | 28 | 52 | 40 | 32 | 27 | 37 | 31 | 26 | 35 | 29 | 25 | 32 | 27 | 24 | 22 |
| 10 | 51 | 38 | 30 | 25 | 48 | 37 | 30 | 25 | 34 | 28 | 24 | 32 | 26 | 23 | 30 | 25 | 22 | 20 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 15588 | 15588 | 15588 |
| 5° | 15662 | 15446 | 15554 |
| 10° | 15557 | 15312 | 15407 |
| 15° | 15375 | 15139 | 15166 |
| 20° | 15163 | 14892 | 14905 |
| 25° | 14878 | 14598 | 14567 |
| 30° | 14564 | 14270 | 14162 |
| 35° | 14236 | 13925 | 13745 |
| 40° | 13893 | 13543 | 13333 |
| 45° | 13516 | 13192 | 12871 |
| 50° | 13137 | 12762 | 12407 |
| 55° | 12643 | 12314 | 11941 |
| 60° | 12144 | 11795 | 11418 |
| 65° | 11703 | 11227 | 10878 |
| 70° | 11053 | 10581 | 10112 |
| 75° | 10098 | 9736 | 9320 |
| 80° | 9106 | 8722 | 8647 |
| 85° | 7991 | 7694 | 7385 |



TEST NUMBER: P332053-927

CATALOG NUMBER: S123DIP-S1165D365U927-4F0-1E-UDD-F4

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 136.4 | 2.8 |
| 10°-20° | 385.2 | 8.0 |
| 20°-30° | 569.0 | 11.8 |
| 30°-40° | 664.6 | 13.8 |
| 40°-50° | 668.2 | 13.9 |
| 50°-60° | 587.0 | 12.2 |
| 60°-70° | 437.3 | 9.1 |
| 70°-80° | 249.1 | 5.2 |
| 80°-90° | 72.6 | 1.5 |
| 90°-100° | 77.0 | 1.6 |
| 100°-110° | 217.9 | 4.5 |
| 110°-120° | 214.4 | 4.5 |
| 120°-130° | 171.0 | 3.6 |
| 130°-140° | 134.8 | 2.8 |
| 140°-150° | 100.6 | 2.1 |
| 150°-160° | 70.1 | 1.5 |
| 160°-170° | 41.2 | 0.9 |
| 170°-180° | 13.4 | 0.3 |
| 0°-30° | 1090.6 | 22.7 |
| 0°-40° | 1755.3 | 36.5 |
| 0°-60° | 3010.4 | 62.6 |
| 0°-90° | 3769.4 | 78.4 |
| 90°-120° | 509.3 | 10.6 |
| 90°-150° | 915.7 | 19.0 |
| 90°-180° | 1040.0 | 21.6 |
| 0°-180° | 4809.9 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 1448 | 1448 | 1448 | 1448 | 1448 | |
| 5° | 1450 | 1443 | 1430 | 1441 | 1440 | 137 |
| 15° | 1380 | 1374 | 1358 | 1368 | 1361 | 389 |
| 25° | 1253 | 1245 | 1229 | 1230 | 1226 | 577 |
| 35° | 1083 | 1075 | 1060 | 1052 | 1046 | 677 |
| 45° | 888 | 882 | 867 | 852 | 846 | 685 |
| 55° | 674 | 672 | 656 | 643 | 636 | 603 |
| 65° | 460 | 453 | 441 | 431 | 427 | 453 |
| 75° | 243 | 238 | 234 | 228 | 224 | 260 |
| 85° | 65 | 62 | 62 | 60 | 60 | 71 |
| 90° | 1 | 3 | 7 | 8 | 8 | 4 |
| 95° | 10 | 31 | 166 | 48 | 32 | 10 |
| 105° | 32 | 48 | 225 | 394 | 356 | 35 |
| 115° | 57 | 72 | 172 | 378 | 433 | 57 |
| 125° | 80 | 94 | 161 | 291 | 342 | 71 |
| 135° | 94 | 112 | 158 | 240 | 277 | 72 |
| 145° | 107 | 122 | 156 | 197 | 216 | 67 |
| 155° | 121 | 131 | 152 | 172 | 179 | 56 |
| 165° | 132 | 136 | 145 | 154 | 156 | 37 |
| 175° | 138 | 138 | 139 | 141 | 141 | 13 |
| 180° | 138 | 138 | 138 | 138 | 138 | |



TEST NUMBER: P332053-927

CATALOG NUMBER: S123DIP-S1165D365U927-4F0-1E-UDD-F4

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1448.2 | 1448.2 | 1448.2 | 1448.2 | 1448.2 | 1448.2 | 1448.2 | 1448.2 | 1448.2 | 1448.2 | 1448.2 |
| 2.5° | 1453.2 | 1452.3 | 1451.4 | 1450.6 | 1449.6 | 1448.0 | 1445.6 | 1443.1 | 1440.7 | 1438.2 | 1440.4 |
| 5° | 1449.5 | 1448.1 | 1446.7 | 1445.3 | 1443.9 | 1441.7 | 1438.7 | 1435.6 | 1432.6 | 1429.5 | 1432.3 |
| 7.5° | 1435.3 | 1433.8 | 1432.5 | 1431.1 | 1429.7 | 1427.4 | 1424.3 | 1421.2 | 1418.0 | 1414.8 | 1417.3 |
| 10° | 1423.3 | 1421.9 | 1420.5 | 1419.1 | 1417.8 | 1415.3 | 1411.7 | 1408.1 | 1404.5 | 1400.9 | 1403.4 |
| 12.5° | 1407.4 | 1406.2 | 1405.0 | 1403.9 | 1402.7 | 1400.4 | 1397.1 | 1393.7 | 1390.3 | 1387.0 | 1388.8 |
| 15° | 1379.7 | 1378.6 | 1377.5 | 1376.4 | 1375.3 | 1372.9 | 1369.4 | 1365.7 | 1362.2 | 1358.5 | 1360.7 |
| 17.5° | 1347.6 | 1346.2 | 1344.7 | 1343.3 | 1341.8 | 1339.3 | 1335.7 | 1332.1 | 1328.5 | 1324.9 | 1326.5 |
| 20° | 1323.7 | 1322.0 | 1320.3 | 1318.7 | 1317.1 | 1314.4 | 1310.8 | 1307.3 | 1303.6 | 1300.1 | 1301.2 |
| 22.5° | 1296.8 | 1295.1 | 1293.5 | 1291.8 | 1290.1 | 1287.5 | 1283.9 | 1280.3 | 1276.8 | 1273.1 | 1274.0 |
| 25° | 1252.7 | 1251.0 | 1249.4 | 1247.7 | 1246.1 | 1243.4 | 1239.8 | 1236.3 | 1232.6 | 1229.1 | 1229.3 |
| 27.5° | 1205.6 | 1204.0 | 1202.5 | 1200.8 | 1199.2 | 1196.5 | 1192.6 | 1188.7 | 1184.9 | 1181.0 | 1181.2 |
| 30° | 1171.8 | 1170.4 | 1169.0 | 1167.6 | 1166.3 | 1163.6 | 1159.8 | 1155.9 | 1152.0 | 1148.1 | 1148.1 |
| 32.5° | 1137.9 | 1136.1 | 1134.2 | 1132.4 | 1130.6 | 1128.1 | 1125.2 | 1122.2 | 1119.2 | 1116.3 | 1114.7 |
| 35° | 1083.4 | 1081.7 | 1080.1 | 1078.4 | 1076.7 | 1074.1 | 1070.5 | 1066.9 | 1063.3 | 1059.7 | 1058.0 |
| 37.5° | 1027.5 | 1025.5 | 1023.3 | 1021.3 | 1019.1 | 1016.3 | 1012.6 | 1009.0 | 1005.4 | 1001.6 | 999.7 |
| 40° | 988.7 | 987.1 | 985.4 | 983.7 | 982.1 | 979.3 | 975.4 | 971.5 | 967.7 | 963.8 | 961.6 |
| 42.5° | 949.8 | 948.0 | 946.1 | 944.2 | 942.3 | 939.4 | 935.6 | 931.7 | 927.8 | 924.0 | 921.8 |
| 45° | 887.9 | 886.8 | 885.7 | 884.6 | 883.4 | 881.1 | 877.5 | 873.9 | 870.3 | 866.6 | 863.4 |
| 47.5° | 826.3 | 824.7 | 823.2 | 821.5 | 819.9 | 817.5 | 814.0 | 810.6 | 807.3 | 803.9 | 800.7 |
| 50° | 784.5 | 783.2 | 781.7 | 780.4 | 779.0 | 776.5 | 772.9 | 769.3 | 765.6 | 762.1 | 759.1 |
| 52.5° | 740.7 | 739.7 | 738.8 | 737.8 | 736.9 | 734.5 | 730.7 | 726.9 | 723.1 | 719.2 | 716.6 |
| 55° | 673.7 | 673.4 | 673.1 | 672.9 | 672.6 | 670.7 | 667.0 | 663.5 | 659.8 | 656.2 | 653.2 |
| 57.5° | 609.9 | 609.0 | 608.0 | 607.1 | 606.2 | 604.3 | 601.3 | 598.5 | 595.6 | 592.7 | 590.0 |
| 60° | 564.1 | 563.8 | 563.6 | 563.2 | 563.0 | 561.2 | 557.9 | 554.5 | 551.2 | 547.9 | 545.4 |
| 62.5° | 523.2 | 522.5 | 521.8 | 521.1 | 520.4 | 518.3 | 515.0 | 511.7 | 508.4 | 505.1 | 502.6 |
| 65° | 459.5 | 458.1 | 456.7 | 455.3 | 453.9 | 451.9 | 449.1 | 446.3 | 443.5 | 440.8 | 438.6 |
| 67.5° | 392.0 | 390.8 | 389.6 | 388.3 | 387.1 | 385.5 | 383.3 | 381.3 | 379.1 | 377.1 | 375.1 |
| 70° | 351.2 | 349.5 | 347.8 | 346.2 | 344.5 | 342.9 | 341.2 | 339.5 | 337.9 | 336.2 | 334.3 |
| 72.5° | 308.3 | 307.1 | 305.9 | 304.7 | 303.5 | 301.9 | 300.0 | 298.1 | 296.3 | 294.4 | 292.6 |
| 75° | 242.8 | 241.7 | 240.6 | 239.5 | 238.4 | 237.4 | 236.6 | 235.8 | 235.0 | 234.1 | 232.7 |
| 77.5° | 184.8 | 184.2 | 183.5 | 183.0 | 182.4 | 181.6 | 180.5 | 179.6 | 178.6 | 177.6 | 176.7 |
| 80° | 146.9 | 146.1 | 145.3 | 144.4 | 143.6 | 142.9 | 142.4 | 141.8 | 141.2 | 140.7 | 140.5 |
| 82.5° | 110.1 | 109.9 | 109.7 | 109.6 | 109.4 | 109.2 | 109.2 | 109.1 | 108.9 | 108.8 | 108.4 |
| 85° | 64.7 | 64.2 | 63.6 | 63.1 | 62.5 | 62.3 | 62.3 | 62.3 | 62.3 | 62.3 | 61.7 |
| 87.5° | 26.0 | 25.4 | 24.9 | 24.4 | 23.8 | 23.5 | 23.4 | 23.4 | 23.4 | 23.3 | 23.1 |
| 90° | 0.6 | 1.1 | 1.7 | 2.5 | 3.1 | 3.6 | 4.5 | 5.3 | 6.2 | 7.0 | 6.7 |
| 92.5° | 3.5 | 5.1 | 7.5 | 9.7 | 12.0 | 16.2 | 23.5 | 35.6 | 47.4 | 43.0 | 32.5 |
| 95° | 9.5 | 10.4 | 13.5 | 18.2 | 25.5 | 36.4 | 60.2 | 101.9 | 147.8 | 166.0 | 134.7 |
| 97.5° | 16.2 | 16.5 | 18.9 | 23.1 | 30.3 | 42.1 | 64.8 | 111.8 | 188.4 | 257.3 | 275.2 |
| 100° | 20.8 | 21.0 | 23.0 | 26.9 | 33.6 | 44.5 | 64.1 | 105.5 | 179.2 | 265.1 | 320.3 |
| 102.5° | 25.4 | 25.9 | 27.6 | 31.4 | 37.4 | 47.5 | 65.0 | 100.1 | 165.7 | 250.6 | 322.5 |
| 105° | 32.5 | 33.4 | 35.0 | 38.3 | 43.6 | 52.4 | 67.5 | 96.3 | 149.2 | 225.1 | 305.4 |
| 107.5° | 40.0 | 40.8 | 42.5 | 45.7 | 50.7 | 58.8 | 72.1 | 96.0 | 138.7 | 202.6 | 275.5 |
| 110° | 45.3 | 46.2 | 47.6 | 50.7 | 55.5 | 63.3 | 75.9 | 97.1 | 134.7 | 189.8 | 256.7 |



TEST NUMBER: P332053-927

CATALOG NUMBER: S123DIP-S1165D365U927-4F0-1E-UDD-F4

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 50.3 | 51.1 | 52.5 | 55.6 | 60.4 | 68.0 | 79.7 | 99.4 | 132.4 | 181.3 | 240.3 |
| 115° | 57.4 | 58.5 | 60.2 | 63.0 | 67.7 | 75.3 | 86.0 | 103.0 | 131.6 | 172.1 | 220.6 |
| 117.5° | 64.5 | 65.8 | 67.2 | 69.8 | 75.1 | 82.1 | 92.6 | 107.8 | 132.1 | 166.8 | 208.7 |
| 120° | 69.4 | 70.3 | 71.7 | 74.5 | 79.8 | 86.7 | 96.9 | 111.4 | 133.0 | 164.3 | 202.4 |
| 122.5° | 73.7 | 74.5 | 75.9 | 79.0 | 84.1 | 91.5 | 101.3 | 114.8 | 134.5 | 162.8 | 197.3 |
| 125° | 79.8 | 80.3 | 82.0 | 85.1 | 90.4 | 98.0 | 107.8 | 120.1 | 136.9 | 160.7 | 190.7 |
| 127.5° | 84.4 | 85.2 | 87.4 | 90.5 | 96.3 | 103.9 | 113.4 | 124.5 | 139.6 | 159.7 | 184.8 |
| 130° | 87.4 | 88.2 | 90.7 | 94.0 | 100.0 | 107.5 | 116.8 | 127.4 | 141.4 | 159.0 | 181.6 |
| 132.5° | 89.6 | 90.6 | 93.4 | 97.4 | 103.3 | 110.7 | 119.6 | 130.1 | 142.8 | 158.8 | 178.8 |
| 135° | 93.5 | 94.6 | 97.7 | 101.9 | 107.8 | 115.3 | 124.0 | 133.6 | 144.7 | 158.4 | 175.0 |
| 137.5° | 97.2 | 98.4 | 101.4 | 105.8 | 111.7 | 118.7 | 127.1 | 136.1 | 146.1 | 157.8 | 171.7 |
| 140° | 99.7 | 101.1 | 103.9 | 108.4 | 113.9 | 121.0 | 129.0 | 137.4 | 146.9 | 157.6 | 169.6 |
| 142.5° | 102.3 | 103.5 | 106.5 | 110.6 | 116.2 | 122.7 | 130.6 | 138.8 | 147.7 | 157.2 | 167.9 |
| 145° | 106.6 | 107.5 | 110.0 | 114.2 | 119.0 | 125.4 | 132.7 | 140.2 | 148.1 | 156.5 | 165.4 |
| 147.5° | 111.1 | 111.5 | 114.0 | 117.6 | 122.2 | 127.7 | 134.4 | 141.2 | 148.1 | 155.4 | 163.1 |
| 150° | 113.9 | 114.2 | 116.5 | 120.1 | 124.0 | 129.0 | 135.5 | 141.4 | 148.1 | 154.6 | 161.5 |
| 152.5° | 116.8 | 116.9 | 119.1 | 122.3 | 125.8 | 130.6 | 136.2 | 141.8 | 147.4 | 153.4 | 159.7 |
| 155° | 121.2 | 121.2 | 122.9 | 125.7 | 128.8 | 132.7 | 137.4 | 142.0 | 146.7 | 151.5 | 157.0 |
| 157.5° | 124.7 | 124.9 | 126.3 | 128.7 | 131.3 | 134.4 | 138.2 | 142.2 | 145.8 | 149.7 | 154.0 |
| 160° | 127.4 | 127.4 | 128.5 | 130.7 | 132.7 | 135.5 | 138.9 | 142.2 | 145.3 | 148.4 | 152.0 |
| 162.5° | 129.4 | 129.4 | 130.3 | 132.1 | 133.8 | 136.2 | 139.1 | 142.0 | 144.4 | 147.0 | 150.0 |
| 165° | 132.4 | 132.1 | 132.7 | 134.1 | 135.2 | 137.2 | 139.4 | 141.4 | 143.1 | 145.0 | 147.3 |
| 167.5° | 134.7 | 134.4 | 134.7 | 135.7 | 136.5 | 137.8 | 139.3 | 140.9 | 141.7 | 143.0 | 144.7 |
| 170° | 136.0 | 135.5 | 135.8 | 136.6 | 137.2 | 137.8 | 139.1 | 140.2 | 140.9 | 141.6 | 143.1 |
| 172.5° | 137.0 | 136.6 | 136.7 | 137.3 | 137.6 | 137.9 | 139.1 | 140.1 | 140.1 | 140.5 | 141.5 |
| 175° | 138.0 | 137.8 | 137.4 | 138.0 | 138.0 | 138.3 | 138.9 | 139.4 | 139.1 | 139.1 | 139.7 |
| 177.5° | 138.6 | 138.3 | 138.1 | 138.3 | 138.3 | 138.3 | 138.6 | 138.9 | 138.6 | 138.3 | 138.6 |
| 180° | 138.3 | 138.3 | 138.3 | 138.3 | 138.3 | 138.3 | 138.3 | 138.3 | 138.3 | 138.3 | 138.3 |



TEST NUMBER: P332053-927

CATALOG NUMBER: S123DIP-S1165D365U927-4F0-1E-UDD-F4

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1448.2 | 1448.2 | 1448.2 | 1448.2 | 1448.2 | 1448.2 | 1448.2 | 1448.2 |
| 2.5° | 1442.6 | 1444.9 | 1447.1 | 1448.1 | 1447.9 | 1447.6 | 1447.4 | 1447.2 |
| 5° | 1435.0 | 1437.8 | 1440.6 | 1441.7 | 1441.1 | 1440.6 | 1440.0 | 1439.5 |
| 7.5° | 1419.8 | 1422.3 | 1424.8 | 1425.8 | 1425.5 | 1425.2 | 1424.9 | 1424.6 |
| 10° | 1405.9 | 1408.3 | 1410.9 | 1411.8 | 1411.3 | 1410.7 | 1410.2 | 1409.6 |
| 12.5° | 1390.6 | 1392.4 | 1394.2 | 1395.0 | 1394.6 | 1394.3 | 1394.0 | 1393.7 |
| 15° | 1362.9 | 1365.2 | 1367.4 | 1367.7 | 1366.0 | 1364.4 | 1362.7 | 1361.0 |
| 17.5° | 1328.0 | 1329.6 | 1331.1 | 1331.6 | 1331.0 | 1330.4 | 1329.8 | 1329.2 |
| 20° | 1302.3 | 1303.4 | 1304.5 | 1304.6 | 1303.8 | 1302.9 | 1302.1 | 1301.2 |
| 22.5° | 1274.9 | 1275.8 | 1276.7 | 1276.6 | 1275.6 | 1274.5 | 1273.4 | 1272.4 |
| 25° | 1229.6 | 1229.9 | 1230.2 | 1229.9 | 1229.1 | 1228.2 | 1227.4 | 1226.5 |
| 27.5° | 1181.5 | 1181.6 | 1181.9 | 1181.5 | 1180.4 | 1179.3 | 1178.3 | 1177.3 |
| 30° | 1148.1 | 1148.1 | 1148.1 | 1147.2 | 1145.2 | 1143.3 | 1141.3 | 1139.4 |
| 32.5° | 1113.1 | 1111.6 | 1110.0 | 1108.7 | 1107.7 | 1106.6 | 1105.6 | 1104.5 |
| 35° | 1056.4 | 1054.7 | 1053.0 | 1051.5 | 1050.1 | 1048.8 | 1047.3 | 1046.0 |
| 37.5° | 997.7 | 995.7 | 993.7 | 992.3 | 991.3 | 990.5 | 989.6 | 988.7 |
| 40° | 959.4 | 957.2 | 955.0 | 953.3 | 952.2 | 951.1 | 950.0 | 948.9 |
| 42.5° | 919.6 | 917.3 | 915.1 | 913.5 | 912.4 | 911.2 | 910.1 | 909.0 |
| 45° | 860.1 | 856.7 | 853.4 | 851.0 | 849.7 | 848.3 | 846.9 | 845.5 |
| 47.5° | 797.4 | 794.2 | 790.8 | 788.6 | 787.4 | 786.2 | 785.0 | 783.8 |
| 50° | 756.0 | 753.0 | 749.9 | 747.6 | 745.9 | 744.3 | 742.6 | 740.9 |
| 52.5° | 714.1 | 711.5 | 708.8 | 706.7 | 705.0 | 703.4 | 701.7 | 700.1 |
| 55° | 650.1 | 647.1 | 644.0 | 641.8 | 640.5 | 639.1 | 637.7 | 636.3 |
| 57.5° | 587.3 | 584.6 | 581.9 | 579.7 | 578.1 | 576.6 | 574.9 | 573.3 |
| 60° | 543.0 | 540.4 | 538.0 | 536.0 | 534.6 | 533.2 | 531.9 | 530.4 |
| 62.5° | 500.1 | 497.6 | 495.1 | 493.4 | 492.4 | 491.5 | 490.6 | 489.6 |
| 65° | 436.4 | 434.2 | 432.0 | 430.5 | 429.6 | 428.8 | 427.9 | 427.1 |
| 67.5° | 373.2 | 371.2 | 369.3 | 367.7 | 366.6 | 365.4 | 364.2 | 363.1 |
| 70° | 332.3 | 330.4 | 328.4 | 326.8 | 325.4 | 324.0 | 322.7 | 321.3 |
| 72.5° | 291.0 | 289.2 | 287.5 | 286.3 | 285.6 | 284.9 | 284.2 | 283.4 |
| 75° | 231.3 | 230.0 | 228.5 | 227.4 | 226.6 | 225.8 | 225.0 | 224.1 |
| 77.5° | 175.7 | 174.8 | 173.8 | 173.3 | 173.3 | 173.3 | 173.3 | 173.3 |
| 80° | 140.1 | 139.9 | 139.6 | 139.5 | 139.5 | 139.5 | 139.5 | 139.5 |
| 82.5° | 107.8 | 107.3 | 106.9 | 106.5 | 106.2 | 106.1 | 105.8 | 105.6 |
| 85° | 61.2 | 60.6 | 60.0 | 59.8 | 59.8 | 59.8 | 59.8 | 59.8 |
| 87.5° | 22.9 | 22.7 | 22.6 | 22.6 | 22.5 | 22.6 | 22.6 | 22.6 |
| 90° | 7.0 | 7.3 | 7.5 | 8.1 | 7.8 | 8.1 | 8.4 | 8.1 |
| 92.5° | 23.6 | 18.7 | 16.5 | 15.1 | 14.6 | 13.7 | 14.0 | 13.5 |
| 95° | 100.8 | 68.3 | 53.5 | 43.4 | 38.1 | 35.6 | 33.6 | 32.5 |
| 97.5° | 251.2 | 201.2 | 165.1 | 131.7 | 111.0 | 98.4 | 90.8 | 88.4 |
| 100° | 330.0 | 307.4 | 274.6 | 234.9 | 206.6 | 186.2 | 175.2 | 175.5 |
| 102.5° | 356.2 | 355.5 | 336.4 | 311.2 | 289.2 | 273.1 | 264.0 | 257.5 |
| 105° | 363.9 | 391.9 | 397.2 | 390.0 | 377.1 | 366.5 | 357.5 | 356.1 |
| 107.5° | 341.8 | 387.3 | 411.9 | 421.8 | 422.1 | 418.4 | 415.4 | 412.9 |
| 110° | 320.8 | 372.3 | 407.6 | 427.2 | 435.1 | 437.3 | 436.7 | 436.2 |



TEST NUMBER: P332053-927

CATALOG NUMBER: S123DIP-S1165D365U927-4F0-1E-UDD-F4

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 300.0 | 352.6 | 392.1 | 417.3 | 431.7 | 438.6 | 440.8 | 440.8 |
| 115° | 272.4 | 321.1 | 362.3 | 392.8 | 413.8 | 426.0 | 431.7 | 433.1 |
| 117.5° | 252.4 | 294.5 | 331.4 | 362.3 | 384.3 | 398.4 | 406.4 | 408.3 |
| 120° | 241.9 | 279.6 | 313.2 | 341.5 | 363.6 | 379.3 | 386.0 | 387.7 |
| 122.5° | 233.6 | 267.8 | 298.9 | 325.2 | 344.8 | 358.9 | 366.3 | 368.4 |
| 125° | 222.5 | 253.1 | 280.0 | 302.4 | 320.3 | 332.6 | 339.6 | 341.5 |
| 127.5° | 212.9 | 240.1 | 264.4 | 284.8 | 300.7 | 311.2 | 317.6 | 319.3 |
| 130° | 206.8 | 232.1 | 254.8 | 273.8 | 288.6 | 298.7 | 304.6 | 306.8 |
| 132.5° | 201.3 | 224.4 | 245.6 | 263.7 | 277.7 | 287.7 | 292.9 | 294.5 |
| 135° | 193.7 | 213.6 | 231.8 | 247.7 | 261.5 | 269.9 | 274.9 | 276.9 |
| 137.5° | 186.8 | 203.1 | 218.8 | 232.7 | 244.2 | 252.7 | 256.9 | 258.3 |
| 140° | 182.8 | 197.1 | 210.5 | 222.5 | 233.2 | 241.1 | 245.5 | 245.3 |
| 142.5° | 179.0 | 191.2 | 202.9 | 213.3 | 222.4 | 229.4 | 233.4 | 233.1 |
| 145° | 174.4 | 183.6 | 192.6 | 200.7 | 207.7 | 213.6 | 215.9 | 216.4 |
| 147.5° | 170.6 | 178.0 | 185.2 | 191.0 | 196.3 | 200.3 | 202.4 | 202.6 |
| 150° | 167.9 | 174.4 | 180.3 | 185.6 | 189.8 | 192.9 | 194.6 | 194.6 |
| 152.5° | 165.5 | 171.0 | 176.3 | 180.7 | 183.9 | 186.8 | 187.8 | 187.8 |
| 155° | 161.8 | 166.3 | 170.5 | 173.8 | 176.3 | 178.6 | 179.2 | 179.4 |
| 157.5° | 157.9 | 161.6 | 164.9 | 167.5 | 169.7 | 171.3 | 171.8 | 171.7 |
| 160° | 155.7 | 158.8 | 161.5 | 163.5 | 165.4 | 167.2 | 167.2 | 166.8 |
| 162.5° | 153.0 | 155.6 | 158.2 | 159.9 | 161.2 | 162.6 | 162.6 | 162.4 |
| 165° | 149.5 | 151.1 | 153.1 | 154.6 | 155.7 | 156.8 | 156.5 | 156.5 |
| 167.5° | 146.5 | 147.7 | 148.9 | 149.9 | 150.4 | 151.1 | 150.9 | 150.9 |
| 170° | 144.4 | 145.3 | 146.4 | 146.9 | 147.3 | 147.8 | 147.5 | 147.5 |
| 172.5° | 142.7 | 143.3 | 144.2 | 144.5 | 144.6 | 145.1 | 144.7 | 144.4 |
| 175° | 140.2 | 140.5 | 141.1 | 141.1 | 141.1 | 141.4 | 141.1 | 140.9 |
| 177.5° | 138.7 | 138.9 | 139.2 | 139.2 | 138.9 | 139.2 | 138.7 | 138.7 |
| 180° | 138.3 | 138.3 | 138.3 | 138.3 | 138.3 | 138.3 | 138.3 | 138.3 |

(END OF REPORT)