

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: P332008-940

Luminaire Tested: **S123DIP-S1000D365U940-4F0-1E-UDD-F4**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P332008-940  
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-S1000D365U940-4F0-1E-UDD-F4  
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 1000 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: 4845.1 lumens  
Efficiency: N/A  
Efficacy: 111.4 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

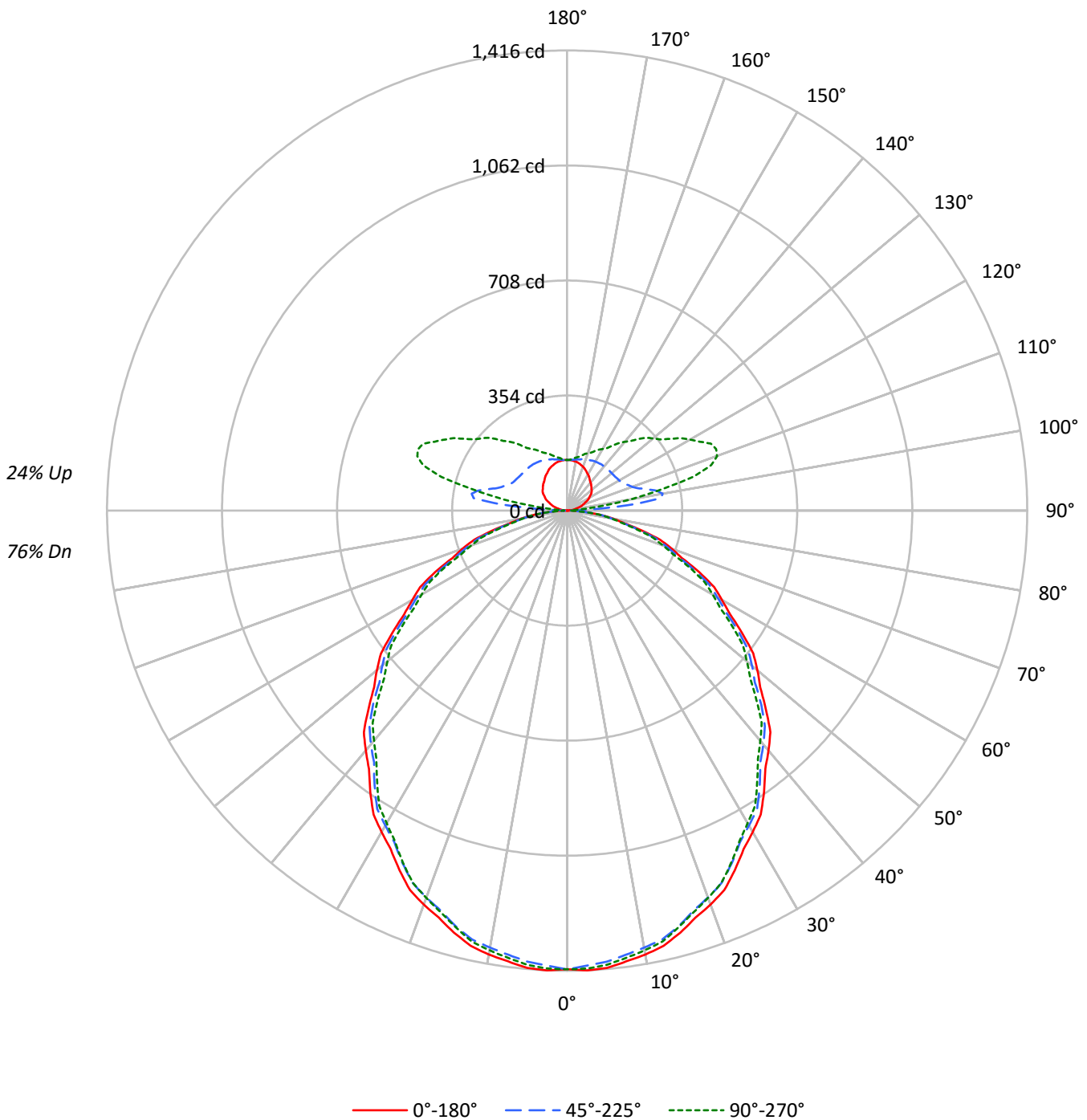
Input Watts (W): 43.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P332008-940

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### Luminous Intensity Polar Plot





TEST NUMBER: P332008-940

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**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   | 113 | 113 | 113 | 113 | 108 | 108 | 108 | 108 | 98 | 98 | 98 | 88 | 88 | 88 | 80 | 80 | 80 | 76 |
| 1   | 103 | 99  | 95  | 91  | 98  | 94  | 91  | 87  | 86 | 83 | 80 | 78 | 76 | 74 | 70 | 69 | 67 | 64 |
| 2   | 94  | 86  | 80  | 74  | 89  | 82  | 77  | 72  | 75 | 70 | 66 | 68 | 65 | 61 | 62 | 59 | 57 | 53 |
| 3   | 86  | 76  | 68  | 62  | 82  | 73  | 66  | 60  | 66 | 61 | 56 | 60 | 56 | 52 | 55 | 51 | 48 | 45 |
| 4   | 79  | 67  | 59  | 53  | 75  | 64  | 57  | 51  | 59 | 53 | 48 | 54 | 49 | 45 | 49 | 45 | 42 | 39 |
| 5   | 72  | 60  | 52  | 45  | 69  | 58  | 50  | 44  | 53 | 46 | 41 | 48 | 43 | 39 | 44 | 40 | 36 | 34 |
| 6   | 67  | 54  | 46  | 39  | 63  | 52  | 44  | 38  | 48 | 41 | 36 | 44 | 38 | 34 | 40 | 36 | 32 | 29 |
| 7   | 62  | 49  | 41  | 35  | 59  | 47  | 39  | 34  | 43 | 37 | 32 | 40 | 34 | 30 | 37 | 32 | 28 | 26 |
| 8   | 58  | 45  | 37  | 31  | 55  | 43  | 35  | 30  | 40 | 33 | 29 | 37 | 31 | 27 | 34 | 29 | 25 | 23 |
| 9   | 54  | 41  | 33  | 28  | 51  | 39  | 32  | 27  | 36 | 30 | 26 | 34 | 28 | 24 | 31 | 26 | 23 | 21 |
| 10  | 50  | 38  | 30  | 25  | 48  | 36  | 29  | 24  | 34 | 28 | 23 | 31 | 26 | 22 | 29 | 24 | 21 | 19 |

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

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 15193 | 15193 | 15193 |
| 5°  | 15263 | 15055 | 15159 |
| 10° | 15162 | 14924 | 15017 |
| 15° | 14985 | 14755 | 14782 |
| 20° | 14778 | 14513 | 14528 |
| 25° | 14500 | 14226 | 14197 |
| 30° | 14194 | 13908 | 13801 |
| 35° | 13875 | 13571 | 13397 |
| 40° | 13541 | 13198 | 12995 |
| 45° | 13172 | 12858 | 12543 |
| 50° | 12804 | 12439 | 12092 |
| 55° | 12322 | 12003 | 11639 |
| 60° | 11834 | 11496 | 11130 |
| 65° | 11405 | 10942 | 10603 |
| 70° | 10770 | 10313 | 9854  |
| 75° | 9844  | 9491  | 9087  |
| 80° | 8877  | 8498  | 8424  |
| 85° | 7793  | 7497  | 7188  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 133.0  | 2.7       |
| 10°-20°   | 375.4  | 7.7       |
| 20°-30°   | 554.6  | 11.4      |
| 30°-40°   | 647.8  | 13.4      |
| 40°-50°   | 651.3  | 13.4      |
| 50°-60°   | 572.1  | 11.8      |
| 60°-70°   | 426.2  | 8.8       |
| 70°-80°   | 242.8  | 5.0       |
| 80°-90°   | 70.9   | 1.5       |
| 90°-100°  | 86.6   | 1.8       |
| 100°-110° | 245.3  | 5.1       |
| 110°-120° | 241.3  | 5.0       |
| 120°-130° | 192.5  | 4.0       |
| 130°-140° | 151.8  | 3.1       |
| 140°-150° | 113.3  | 2.3       |
| 150°-160° | 78.9   | 1.6       |
| 160°-170° | 46.4   | 1.0       |
| 170°-180° | 15.1   | 0.3       |
| 0°-30°    | 1062.9 | 21.9      |
| 0°-40°    | 1710.7 | 35.3      |
| 0°-60°    | 2934.1 | 60.6      |
| 0°-90°    | 3674.0 | 75.8      |
| 90°-120°  | 573.2  | 11.8      |
| 90°-150°  | 1030.7 | 21.3      |
| 90°-180°  | 1171.0 | 24.2      |
| 0°-180°   | 4845.1 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 1412 | 1412  | 1412 | 1412  | 1412 |      |
| 5°   | 1413 | 1406  | 1393 | 1405  | 1403 | 134  |
| 15°  | 1345 | 1339  | 1324 | 1333  | 1326 | 379  |
| 25°  | 1221 | 1213  | 1198 | 1199  | 1195 | 562  |
| 35°  | 1056 | 1048  | 1033 | 1026  | 1020 | 660  |
| 45°  | 865  | 860   | 845  | 831   | 824  | 668  |
| 55°  | 657  | 655   | 640  | 627   | 620  | 588  |
| 65°  | 448  | 441   | 430  | 420   | 416  | 442  |
| 75°  | 237  | 232   | 228  | 222   | 218  | 253  |
| 85°  | 63   | 61    | 61   | 58    | 58   | 69   |
| 90°  | 1    | 4     | 8    | 9     | 9    | 4    |
| 95°  | 11   | 35    | 187  | 55    | 37   | 12   |
| 105° | 37   | 54    | 253  | 443   | 401  | 39   |
| 115° | 65   | 80    | 194  | 425   | 488  | 64   |
| 125° | 90   | 106   | 181  | 328   | 384  | 80   |
| 135° | 105  | 126   | 178  | 270   | 312  | 81   |
| 145° | 120  | 138   | 176  | 221   | 244  | 75   |
| 155° | 136  | 147   | 170  | 194   | 202  | 63   |
| 165° | 149  | 153   | 163  | 173   | 176  | 42   |
| 175° | 155  | 156   | 157  | 159   | 158  | 15   |
| 180° | 156  | 156   | 156  | 156   | 156  |      |



TEST NUMBER: P332008-940

CATALOG NUMBER: S123DIP-S1000D365U940-4F0-1E-UDD-F4

**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1411.5 | 1411.5 | 1411.5 | 1411.5 | 1411.5 | 1411.5 | 1411.5 | 1411.5 | 1411.5 | 1411.5 | 1411.5 |
| 2.5°   | 1416.3 | 1415.5 | 1414.6 | 1413.7 | 1412.9 | 1411.2 | 1408.9 | 1406.5 | 1404.2 | 1401.8 | 1403.9 |
| 5°     | 1412.6 | 1411.3 | 1410.0 | 1408.6 | 1407.3 | 1405.2 | 1402.2 | 1399.2 | 1396.2 | 1393.3 | 1396.0 |
| 7.5°   | 1398.8 | 1397.5 | 1396.2 | 1394.8 | 1393.5 | 1391.2 | 1388.2 | 1385.1 | 1382.1 | 1378.9 | 1381.3 |
| 10°    | 1387.2 | 1385.9 | 1384.5 | 1383.1 | 1381.8 | 1379.4 | 1375.9 | 1372.3 | 1368.9 | 1365.4 | 1367.8 |
| 12.5°  | 1371.6 | 1370.6 | 1369.4 | 1368.2 | 1367.2 | 1364.9 | 1361.6 | 1358.3 | 1355.0 | 1351.7 | 1353.5 |
| 15°    | 1344.7 | 1343.6 | 1342.6 | 1341.5 | 1340.4 | 1338.1 | 1334.6 | 1331.1 | 1327.6 | 1324.1 | 1326.2 |
| 17.5°  | 1313.4 | 1312.0 | 1310.6 | 1309.2 | 1307.8 | 1305.4 | 1301.8 | 1298.3 | 1294.9 | 1291.3 | 1292.8 |
| 20°    | 1290.1 | 1288.5 | 1286.9 | 1285.2 | 1283.6 | 1281.0 | 1277.6 | 1274.1 | 1270.6 | 1267.0 | 1268.1 |
| 22.5°  | 1263.9 | 1262.3 | 1260.7 | 1259.0 | 1257.4 | 1254.9 | 1251.3 | 1247.9 | 1244.4 | 1240.8 | 1241.7 |
| 25°    | 1220.9 | 1219.3 | 1217.7 | 1216.1 | 1214.4 | 1211.9 | 1208.4 | 1204.9 | 1201.4 | 1197.8 | 1198.1 |
| 27.5°  | 1175.1 | 1173.5 | 1171.9 | 1170.4 | 1168.8 | 1166.1 | 1162.3 | 1158.6 | 1154.8 | 1151.0 | 1151.2 |
| 30°    | 1142.0 | 1140.7 | 1139.3 | 1138.0 | 1136.7 | 1134.1 | 1130.3 | 1126.5 | 1122.8 | 1119.0 | 1119.0 |
| 32.5°  | 1109.0 | 1107.2 | 1105.5 | 1103.7 | 1101.9 | 1099.6 | 1096.6 | 1093.8 | 1090.8 | 1087.9 | 1086.4 |
| 35°    | 1055.9 | 1054.3 | 1052.7 | 1051.1 | 1049.4 | 1046.9 | 1043.3 | 1039.8 | 1036.3 | 1032.8 | 1031.2 |
| 37.5°  | 1001.5 | 999.4  | 997.4  | 995.3  | 993.3  | 990.5  | 986.9  | 983.4  | 979.8  | 976.2  | 974.3  |
| 40°    | 963.7  | 962.0  | 960.4  | 958.8  | 957.2  | 954.5  | 950.7  | 946.9  | 943.2  | 939.3  | 937.2  |
| 42.5°  | 925.8  | 923.9  | 922.1  | 920.2  | 918.5  | 915.6  | 911.9  | 908.1  | 904.3  | 900.5  | 898.4  |
| 45°    | 865.3  | 864.2  | 863.2  | 862.1  | 861.0  | 858.7  | 855.2  | 851.7  | 848.2  | 844.7  | 841.5  |
| 47.5°  | 805.4  | 803.8  | 802.3  | 800.7  | 799.2  | 796.7  | 793.4  | 790.1  | 786.8  | 783.5  | 780.3  |
| 50°    | 764.6  | 763.2  | 761.9  | 760.5  | 759.2  | 756.8  | 753.2  | 749.8  | 746.3  | 742.8  | 739.8  |
| 52.5°  | 721.8  | 720.9  | 720.1  | 719.2  | 718.2  | 715.9  | 712.2  | 708.5  | 704.7  | 701.0  | 698.5  |
| 55°    | 656.6  | 656.3  | 656.0  | 655.8  | 655.5  | 653.6  | 650.1  | 646.6  | 643.1  | 639.6  | 636.6  |
| 57.5°  | 594.4  | 593.5  | 592.6  | 591.7  | 590.8  | 588.9  | 586.1  | 583.3  | 580.5  | 577.7  | 575.1  |
| 60°    | 549.7  | 549.5  | 549.2  | 548.9  | 548.7  | 547.0  | 543.7  | 540.5  | 537.3  | 534.0  | 531.5  |
| 62.5°  | 510.0  | 509.3  | 508.5  | 507.8  | 507.2  | 505.2  | 501.9  | 498.7  | 495.5  | 492.2  | 489.8  |
| 65°    | 447.8  | 446.5  | 445.1  | 443.8  | 442.5  | 440.4  | 437.7  | 435.1  | 432.3  | 429.6  | 427.5  |
| 67.5°  | 382.1  | 380.8  | 379.7  | 378.5  | 377.3  | 375.7  | 373.6  | 371.6  | 369.5  | 367.5  | 365.6  |
| 70°    | 342.2  | 340.6  | 339.0  | 337.4  | 335.8  | 334.1  | 332.5  | 330.9  | 329.3  | 327.7  | 325.8  |
| 72.5°  | 300.5  | 299.3  | 298.1  | 296.9  | 295.8  | 294.3  | 292.4  | 290.6  | 288.7  | 286.9  | 285.3  |
| 75°    | 236.7  | 235.6  | 234.5  | 233.4  | 232.4  | 231.4  | 230.6  | 229.8  | 229.0  | 228.2  | 226.9  |
| 77.5°  | 180.1  | 179.5  | 178.9  | 178.3  | 177.7  | 176.9  | 176.0  | 175.0  | 174.1  | 173.1  | 172.2  |
| 80°    | 143.2  | 142.4  | 141.6  | 140.8  | 140.0  | 139.3  | 138.8  | 138.2  | 137.7  | 137.1  | 136.9  |
| 82.5°  | 107.3  | 107.1  | 107.0  | 106.8  | 106.6  | 106.5  | 106.4  | 106.3  | 106.2  | 106.1  | 105.6  |
| 85°    | 63.1   | 62.6   | 62.1   | 61.5   | 61.0   | 60.7   | 60.7   | 60.7   | 60.7   | 60.7   | 60.1   |
| 87.5°  | 25.4   | 24.9   | 24.3   | 23.9   | 23.4   | 23.0   | 23.0   | 23.0   | 23.0   | 22.9   | 22.6   |
| 90°    | 0.6    | 1.2    | 1.9    | 2.9    | 3.5    | 4.1    | 5.1    | 6.0    | 7.0    | 7.8    | 7.6    |
| 92.5°  | 3.9    | 5.8    | 8.5    | 10.9   | 13.6   | 18.2   | 26.5   | 40.0   | 53.3   | 48.4   | 36.6   |
| 95°    | 10.7   | 11.7   | 15.2   | 20.5   | 28.7   | 40.9   | 67.8   | 114.7  | 166.4  | 186.9  | 151.6  |
| 97.5°  | 18.3   | 18.5   | 21.3   | 25.9   | 34.1   | 47.3   | 72.9   | 125.8  | 212.0  | 289.6  | 309.8  |
| 100°   | 23.4   | 23.6   | 25.9   | 30.2   | 37.8   | 50.1   | 72.1   | 118.8  | 201.7  | 298.5  | 360.5  |
| 102.5° | 28.6   | 29.2   | 31.1   | 35.3   | 42.1   | 53.4   | 73.2   | 112.7  | 186.5  | 282.0  | 363.0  |
| 105°   | 36.6   | 37.5   | 39.4   | 43.2   | 49.1   | 58.9   | 76.0   | 108.4  | 168.0  | 253.3  | 343.8  |
| 107.5° | 45.0   | 45.9   | 47.8   | 51.5   | 57.1   | 66.2   | 81.1   | 108.1  | 156.1  | 228.0  | 310.1  |
| 110°   | 51.0   | 52.0   | 53.6   | 57.1   | 62.4   | 71.2   | 85.4   | 109.3  | 151.6  | 213.7  | 289.0  |



TEST NUMBER: P332008-940

CATALOG NUMBER: S123DIP-S1000D365U940-4F0-1E-UDD-F4

**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 5°    | 10°   | 15°   | 20°   | 25°   | 30°   | 35°   | 40°   | 45°   | 50°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 56.6  | 57.5  | 59.1  | 62.6  | 67.9  | 76.5  | 89.7  | 111.9 | 149.0 | 204.0 | 270.5 |
| 115°   | 64.6  | 65.9  | 67.8  | 70.9  | 76.2  | 84.8  | 96.8  | 115.9 | 148.1 | 193.8 | 248.3 |
| 117.5° | 72.6  | 74.0  | 75.6  | 78.6  | 84.5  | 92.4  | 104.2 | 121.4 | 148.6 | 187.7 | 234.9 |
| 120°   | 78.1  | 79.1  | 80.7  | 83.8  | 89.8  | 97.6  | 109.1 | 125.4 | 149.7 | 184.9 | 227.8 |
| 122.5° | 82.9  | 83.9  | 85.4  | 88.9  | 94.6  | 103.0 | 114.0 | 129.2 | 151.4 | 183.2 | 222.0 |
| 125°   | 89.8  | 90.4  | 92.3  | 95.8  | 101.7 | 110.3 | 121.4 | 135.2 | 154.1 | 180.8 | 214.6 |
| 127.5° | 95.1  | 95.9  | 98.4  | 101.8 | 108.4 | 117.0 | 127.6 | 140.1 | 157.1 | 179.8 | 208.0 |
| 130°   | 98.4  | 99.2  | 102.1 | 105.8 | 112.5 | 121.0 | 131.4 | 143.4 | 159.2 | 179.0 | 204.5 |
| 132.5° | 100.9 | 102.0 | 105.1 | 109.7 | 116.3 | 124.6 | 134.6 | 146.4 | 160.7 | 178.7 | 201.3 |
| 135°   | 105.2 | 106.5 | 109.9 | 114.7 | 121.4 | 129.8 | 139.6 | 150.3 | 162.9 | 178.3 | 197.0 |
| 137.5° | 109.4 | 110.8 | 114.1 | 119.1 | 125.7 | 133.6 | 143.0 | 153.2 | 164.4 | 177.6 | 193.2 |
| 140°   | 112.2 | 113.8 | 116.9 | 122.0 | 128.2 | 136.2 | 145.3 | 154.7 | 165.4 | 177.5 | 190.9 |
| 142.5° | 115.2 | 116.5 | 119.9 | 124.5 | 130.8 | 138.1 | 147.0 | 156.2 | 166.2 | 176.9 | 189.0 |
| 145°   | 120.0 | 121.0 | 123.9 | 128.6 | 133.9 | 141.2 | 149.4 | 157.8 | 166.7 | 176.1 | 186.2 |
| 147.5° | 125.0 | 125.6 | 128.3 | 132.4 | 137.6 | 143.7 | 151.2 | 158.9 | 166.7 | 175.0 | 183.6 |
| 150°   | 128.2 | 128.6 | 131.1 | 135.2 | 139.6 | 145.3 | 152.5 | 159.2 | 166.7 | 174.0 | 181.8 |
| 152.5° | 131.5 | 131.6 | 134.1 | 137.7 | 141.6 | 147.0 | 153.3 | 159.6 | 165.9 | 172.7 | 179.8 |
| 155°   | 136.4 | 136.4 | 138.3 | 141.5 | 145.0 | 149.4 | 154.7 | 159.8 | 165.1 | 170.5 | 176.7 |
| 157.5° | 140.4 | 140.6 | 142.1 | 144.9 | 147.8 | 151.2 | 155.5 | 160.1 | 164.1 | 168.5 | 173.3 |
| 160°   | 143.4 | 143.4 | 144.6 | 147.1 | 149.4 | 152.5 | 156.3 | 160.1 | 163.5 | 167.0 | 171.1 |
| 162.5° | 145.6 | 145.6 | 146.7 | 148.6 | 150.6 | 153.3 | 156.6 | 159.8 | 162.6 | 165.5 | 168.8 |
| 165°   | 149.0 | 148.7 | 149.4 | 151.0 | 152.2 | 154.4 | 156.9 | 159.2 | 161.0 | 163.3 | 165.8 |
| 167.5° | 151.6 | 151.2 | 151.6 | 152.8 | 153.6 | 155.1 | 156.9 | 158.6 | 159.5 | 161.0 | 162.8 |
| 170°   | 153.1 | 152.5 | 152.8 | 153.7 | 154.4 | 155.1 | 156.6 | 157.8 | 158.5 | 159.4 | 161.0 |
| 172.5° | 154.2 | 153.7 | 153.8 | 154.5 | 154.9 | 155.2 | 156.6 | 157.7 | 157.7 | 158.2 | 159.3 |
| 175°   | 155.3 | 155.1 | 154.7 | 155.3 | 155.3 | 155.7 | 156.3 | 156.9 | 156.6 | 156.6 | 157.2 |
| 177.5° | 156.0 | 155.7 | 155.4 | 155.7 | 155.7 | 155.7 | 156.0 | 156.4 | 156.0 | 155.7 | 156.0 |
| 180°   | 155.7 | 155.7 | 155.7 | 155.7 | 155.7 | 155.7 | 155.7 | 155.7 | 155.7 | 155.7 | 155.7 |



TEST NUMBER: P332008-940

CATALOG NUMBER: S123DIP-S1000D365U940-4F0-1E-UDD-F4

**CANDELA DISTRIBUTION (continued):**

|        | 55°    | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1411.5 | 1411.5 | 1411.5 | 1411.5 | 1411.5 | 1411.5 | 1411.5 | 1411.5 |
| 2.5°   | 1406.0 | 1408.3 | 1410.4 | 1411.4 | 1411.1 | 1411.0 | 1410.7 | 1410.5 |
| 5°     | 1398.6 | 1401.3 | 1404.1 | 1405.2 | 1404.6 | 1404.1 | 1403.6 | 1403.0 |
| 7.5°   | 1383.8 | 1386.3 | 1388.7 | 1389.7 | 1389.4 | 1389.1 | 1388.8 | 1388.4 |
| 10°    | 1370.2 | 1372.6 | 1375.1 | 1376.0 | 1375.5 | 1374.9 | 1374.4 | 1373.9 |
| 12.5°  | 1355.3 | 1357.1 | 1358.9 | 1359.6 | 1359.3 | 1359.0 | 1358.6 | 1358.3 |
| 15°    | 1328.4 | 1330.5 | 1332.8 | 1333.0 | 1331.4 | 1329.7 | 1328.1 | 1326.5 |
| 17.5°  | 1294.3 | 1295.8 | 1297.4 | 1297.8 | 1297.3 | 1296.6 | 1296.0 | 1295.5 |
| 20°    | 1269.2 | 1270.3 | 1271.4 | 1271.5 | 1270.7 | 1269.9 | 1269.1 | 1268.3 |
| 22.5°  | 1242.6 | 1243.4 | 1244.3 | 1244.2 | 1243.2 | 1242.2 | 1241.2 | 1240.1 |
| 25°    | 1198.4 | 1198.7 | 1199.0 | 1198.7 | 1197.8 | 1197.0 | 1196.2 | 1195.4 |
| 27.5°  | 1151.5 | 1151.6 | 1151.9 | 1151.5 | 1150.5 | 1149.4 | 1148.4 | 1147.4 |
| 30°    | 1119.0 | 1119.0 | 1119.0 | 1118.0 | 1116.2 | 1114.3 | 1112.4 | 1110.4 |
| 32.5°  | 1084.9 | 1083.4 | 1081.9 | 1080.6 | 1079.6 | 1078.5 | 1077.5 | 1076.5 |
| 35°    | 1029.6 | 1028.0 | 1026.4 | 1024.8 | 1023.5 | 1022.2 | 1020.8 | 1019.5 |
| 37.5°  | 972.4  | 970.4  | 968.5  | 967.1  | 966.3  | 965.4  | 964.5  | 963.7  |
| 40°    | 935.0  | 932.9  | 930.8  | 929.1  | 928.0  | 926.9  | 925.9  | 924.8  |
| 42.5°  | 896.2  | 894.0  | 891.9  | 890.3  | 889.2  | 888.1  | 887.1  | 886.0  |
| 45°    | 838.2  | 835.0  | 831.8  | 829.5  | 828.1  | 826.8  | 825.5  | 824.0  |
| 47.5°  | 777.1  | 774.0  | 770.8  | 768.7  | 767.4  | 766.2  | 765.1  | 763.8  |
| 50°    | 736.8  | 733.9  | 730.8  | 728.6  | 727.0  | 725.3  | 723.7  | 722.1  |
| 52.5°  | 695.9  | 693.4  | 690.9  | 688.8  | 687.2  | 685.5  | 683.9  | 682.3  |
| 55°    | 633.6  | 630.7  | 627.8  | 625.5  | 624.2  | 622.9  | 621.5  | 620.2  |
| 57.5°  | 572.4  | 569.8  | 567.1  | 565.0  | 563.5  | 561.9  | 560.4  | 558.7  |
| 60°    | 529.1  | 526.7  | 524.3  | 522.5  | 521.0  | 519.7  | 518.4  | 517.0  |
| 62.5°  | 487.4  | 485.0  | 482.5  | 480.9  | 479.9  | 479.0  | 478.1  | 477.2  |
| 65°    | 425.3  | 423.1  | 421.0  | 419.5  | 418.7  | 417.9  | 417.1  | 416.3  |
| 67.5°  | 363.7  | 361.9  | 360.0  | 358.5  | 357.3  | 356.1  | 355.0  | 353.9  |
| 70°    | 323.9  | 322.0  | 320.1  | 318.5  | 317.2  | 315.8  | 314.5  | 313.1  |
| 72.5°  | 283.6  | 281.9  | 280.2  | 279.0  | 278.3  | 277.6  | 277.0  | 276.3  |
| 75°    | 225.5  | 224.1  | 222.7  | 221.7  | 220.9  | 220.1  | 219.3  | 218.5  |
| 77.5°  | 171.2  | 170.3  | 169.4  | 169.0  | 169.0  | 169.0  | 169.0  | 169.0  |
| 80°    | 136.6  | 136.3  | 136.1  | 135.9  | 135.9  | 135.9  | 135.9  | 135.9  |
| 82.5°  | 105.1  | 104.6  | 104.2  | 103.8  | 103.5  | 103.3  | 103.2  | 102.9  |
| 85°    | 59.6   | 59.0   | 58.5   | 58.2   | 58.2   | 58.2   | 58.2   | 58.2   |
| 87.5°  | 22.5   | 22.4   | 22.2   | 22.2   | 22.1   | 22.2   | 22.3   | 22.2   |
| 90°    | 7.8    | 8.2    | 8.5    | 9.1    | 8.8    | 9.1    | 9.5    | 9.1    |
| 92.5°  | 26.6   | 21.0   | 18.5   | 16.9   | 16.4   | 15.4   | 15.8   | 15.2   |
| 95°    | 113.4  | 76.9   | 60.2   | 48.9   | 42.9   | 40.0   | 37.8   | 36.6   |
| 97.5°  | 282.8  | 226.5  | 185.8  | 148.2  | 124.9  | 110.8  | 102.2  | 99.5   |
| 100°   | 371.5  | 346.0  | 309.2  | 264.4  | 232.6  | 209.6  | 197.2  | 197.6  |
| 102.5° | 401.0  | 400.2  | 378.7  | 350.4  | 325.6  | 307.4  | 297.1  | 289.8  |
| 105°   | 409.7  | 441.1  | 447.1  | 439.0  | 424.5  | 412.5  | 402.4  | 400.8  |
| 107.5° | 384.8  | 436.0  | 463.6  | 474.8  | 475.1  | 471.0  | 467.6  | 464.8  |
| 110°   | 361.1  | 419.1  | 458.8  | 480.9  | 489.7  | 492.2  | 491.6  | 491.0  |





TEST NUMBER: P332008-940

CATALOG NUMBER: S123DIP-S1000D365U940-4F0-1E-UDD-F4

**CANDELA DISTRIBUTION (continued):**

|        | 55°   | 60°   | 65°   | 70°   | 75°   | 80°   | 85°   | 90°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 337.7 | 396.9 | 441.4 | 469.8 | 485.9 | 493.7 | 496.1 | 496.2 |
| 115°   | 306.6 | 361.4 | 407.8 | 442.1 | 465.7 | 479.6 | 485.9 | 487.5 |
| 117.5° | 284.1 | 331.4 | 373.0 | 407.9 | 432.6 | 448.4 | 457.4 | 459.6 |
| 120°   | 272.2 | 314.8 | 352.6 | 384.4 | 409.3 | 427.0 | 434.5 | 436.4 |
| 122.5° | 263.0 | 301.4 | 336.4 | 366.0 | 388.2 | 404.0 | 412.3 | 414.7 |
| 125°   | 250.5 | 284.9 | 315.1 | 340.4 | 360.5 | 374.3 | 382.3 | 384.4 |
| 127.5° | 239.7 | 270.3 | 297.6 | 320.6 | 338.5 | 350.4 | 357.5 | 359.4 |
| 130°   | 232.8 | 261.3 | 286.8 | 308.2 | 324.9 | 336.3 | 342.9 | 345.4 |
| 132.5° | 226.6 | 252.6 | 276.4 | 296.9 | 312.5 | 323.9 | 329.8 | 331.5 |
| 135°   | 218.0 | 240.4 | 260.9 | 278.8 | 294.4 | 303.8 | 309.4 | 311.7 |
| 137.5° | 210.3 | 228.6 | 246.3 | 261.9 | 274.8 | 284.5 | 289.2 | 290.7 |
| 140°   | 205.8 | 221.9 | 236.9 | 250.5 | 262.5 | 271.3 | 276.3 | 276.1 |
| 142.5° | 201.5 | 215.3 | 228.4 | 240.1 | 250.4 | 258.2 | 262.7 | 262.4 |
| 145°   | 196.4 | 206.7 | 216.8 | 226.0 | 233.8 | 240.4 | 243.0 | 243.6 |
| 147.5° | 192.1 | 200.4 | 208.5 | 215.0 | 221.0 | 225.4 | 227.8 | 228.1 |
| 150°   | 189.0 | 196.4 | 203.0 | 208.9 | 213.7 | 217.1 | 219.0 | 219.0 |
| 152.5° | 186.3 | 192.5 | 198.4 | 203.4 | 207.1 | 210.3 | 211.4 | 211.4 |
| 155°   | 182.2 | 187.2 | 191.9 | 195.6 | 198.5 | 201.1 | 201.7 | 202.0 |
| 157.5° | 177.7 | 181.9 | 185.6 | 188.6 | 191.0 | 192.9 | 193.4 | 193.3 |
| 160°   | 175.2 | 178.7 | 181.8 | 184.0 | 186.2 | 188.2 | 188.2 | 187.8 |
| 162.5° | 172.2 | 175.1 | 178.1 | 180.0 | 181.5 | 183.1 | 183.1 | 182.8 |
| 165°   | 168.3 | 170.1 | 172.4 | 174.0 | 175.2 | 176.5 | 176.1 | 176.1 |
| 167.5° | 164.9 | 166.3 | 167.6 | 168.7 | 169.2 | 170.1 | 169.9 | 169.9 |
| 170°   | 162.6 | 163.5 | 164.8 | 165.4 | 165.8 | 166.4 | 166.0 | 166.0 |
| 172.5° | 160.6 | 161.3 | 162.3 | 162.6 | 162.7 | 163.4 | 162.8 | 162.6 |
| 175°   | 157.8 | 158.2 | 158.8 | 158.8 | 158.8 | 159.2 | 158.8 | 158.5 |
| 177.5° | 156.1 | 156.4 | 156.7 | 156.7 | 156.4 | 156.7 | 156.1 | 156.1 |
| 180°   | 155.7 | 155.7 | 155.7 | 155.7 | 155.7 | 155.7 | 155.7 | 155.7 |

(END OF REPORT)