

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: P332017-940

Luminaire Tested: **S123DIP-S1000D585U940-4F0-1E-UDD-F4**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P332017-940  
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-S1000D585U940-4F0-1E-UDD-F4  
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 1000 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER  
UPLIGHT 585 LUMENS PER FOOT, BATWING OPTIC  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5565.0 lumens  
Efficiency: N/A  
Efficacy: 114.0 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

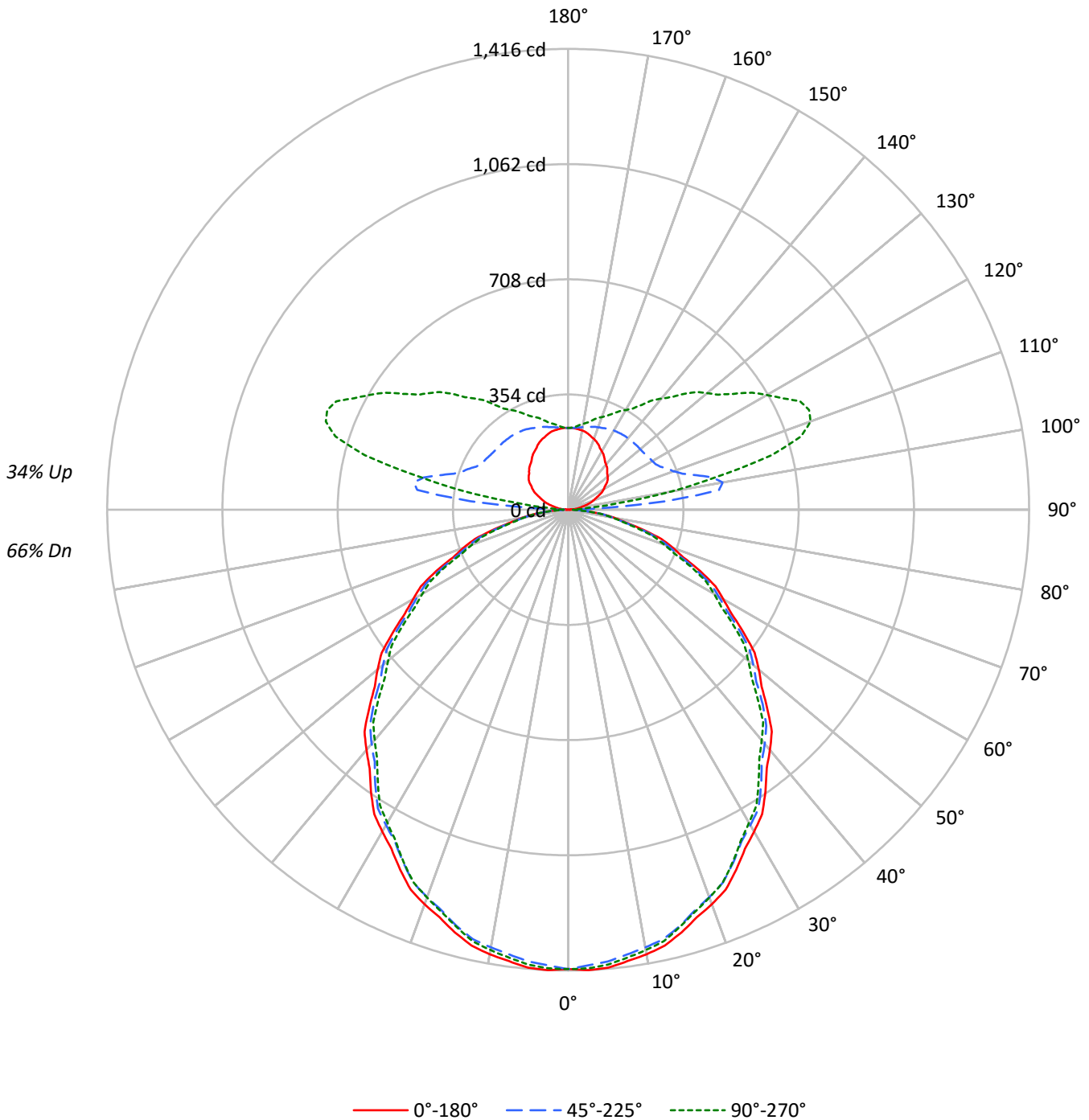
Input Watts (W): 48.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P332017-940

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### Luminous Intensity Polar Plot





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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   | 111 | 111 | 111 | 111 | 104 | 104 | 104 | 104 | 92 | 92 | 92 | 81 | 81 | 81 | 71 | 71 | 71 | 66 |
| 1   | 101 | 97  | 93  | 89  | 95  | 91  | 88  | 85  | 81 | 78 | 76 | 71 | 69 | 67 | 63 | 61 | 60 | 55 |
| 2   | 92  | 85  | 78  | 73  | 87  | 80  | 74  | 69  | 71 | 66 | 63 | 63 | 59 | 56 | 55 | 52 | 50 | 46 |
| 3   | 84  | 74  | 67  | 61  | 79  | 70  | 63  | 58  | 62 | 57 | 53 | 55 | 51 | 48 | 49 | 45 | 43 | 39 |
| 4   | 77  | 66  | 58  | 51  | 72  | 62  | 55  | 49  | 56 | 50 | 45 | 49 | 45 | 41 | 44 | 40 | 37 | 34 |
| 5   | 71  | 59  | 50  | 44  | 66  | 56  | 48  | 42  | 50 | 44 | 39 | 44 | 39 | 35 | 39 | 35 | 32 | 29 |
| 6   | 65  | 53  | 44  | 38  | 61  | 50  | 42  | 37  | 45 | 39 | 34 | 40 | 35 | 31 | 36 | 31 | 28 | 26 |
| 7   | 60  | 48  | 40  | 34  | 57  | 45  | 38  | 33  | 41 | 35 | 30 | 37 | 31 | 28 | 33 | 28 | 25 | 23 |
| 8   | 56  | 43  | 35  | 30  | 53  | 41  | 34  | 29  | 37 | 31 | 27 | 33 | 28 | 25 | 30 | 26 | 23 | 20 |
| 9   | 52  | 40  | 32  | 27  | 49  | 38  | 31  | 26  | 34 | 28 | 24 | 31 | 26 | 22 | 28 | 23 | 20 | 18 |
| 10  | 49  | 37  | 29  | 24  | 46  | 35  | 28  | 23  | 32 | 26 | 22 | 29 | 24 | 20 | 26 | 21 | 19 | 17 |

**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  | 2.4       |
| 10°-20°   | 375.4  | 6.7       |
| 20°-30°   | 554.6  | 10.0      |
| 30°-40°   | 647.8  | 11.6      |
| 40°-50°   | 651.3  | 11.7      |
| 50°-60°   | 572.1  | 10.3      |
| 60°-70°   | 426.2  | 7.7       |
| 70°-80°   | 242.8  | 4.4       |
| 80°-90°   | 71.6   | 1.3       |
| 90°-100°  | 139.8  | 2.5       |
| 100°-110° | 395.9  | 7.1       |
| 110°-120° | 389.5  | 7.0       |
| 120°-130° | 310.7  | 5.6       |
| 130°-140° | 244.9  | 4.4       |
| 140°-150° | 182.8  | 3.3       |
| 150°-160° | 127.4  | 2.3       |
| 160°-170° | 74.9   | 1.3       |
| 170°-180° | 24.4   | 0.4       |
| 0°-30°    | 1062.9 | 19.1      |
| 0°-40°    | 1710.7 | 30.7      |
| 0°-60°    | 2934.1 | 52.7      |
| 0°-90°    | 3674.7 | 66.0      |
| 90°-120°  | 925.2  | 16.6      |
| 90°-150°  | 1663.7 | 29.9      |
| 90°-180°  | 1890.0 | 34.0      |
| 0°-180°   | 5565.0 | 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    | 6     | 13   | 14    | 15   | 5    |
| 95°  | 17   | 56    | 302  | 88    | 59   | 19   |
| 105° | 59   | 87    | 409  | 715   | 647  | 63   |
| 115° | 104  | 130   | 313  | 686   | 787  | 103  |
| 125° | 145  | 171   | 292  | 529   | 620  | 129  |
| 135° | 170  | 203   | 288  | 436   | 503  | 131  |
| 145° | 194  | 222   | 284  | 357   | 393  | 121  |
| 155° | 220  | 238   | 275  | 313   | 326  | 101  |
| 165° | 241  | 247   | 264  | 279   | 284  | 68   |
| 175° | 251  | 251   | 253  | 256   | 256  | 24   |
| 180° | 251  | 251   | 251  | 251   | 251  |      |



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**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   | 25.0   | 24.5   | 24.3   | 23.8   | 23.5   | 23.6   | 23.7   | 23.8   | 23.9   | 23.6   |
| 90°    | 1.0    | 2.1    | 3.0    | 4.5    | 5.6    | 6.6    | 8.1    | 9.6    | 11.1   | 12.8   | 12.2   |
| 92.5°  | 6.3    | 9.4    | 13.6   | 17.6   | 21.8   | 29.4   | 42.7   | 64.6   | 86.1   | 78.2   | 59.0   |
| 95°    | 17.3   | 18.8   | 24.4   | 33.1   | 46.3   | 66.1   | 109.3  | 185.1  | 268.6  | 301.6  | 244.6  |
| 97.5°  | 29.5   | 30.1   | 34.4   | 41.9   | 54.9   | 76.4   | 117.7  | 203.1  | 342.1  | 467.4  | 500.1  |
| 100°   | 37.6   | 38.2   | 41.7   | 48.9   | 61.0   | 80.9   | 116.5  | 191.7  | 325.5  | 481.6  | 581.8  |
| 102.5° | 46.2   | 47.1   | 50.3   | 57.0   | 67.9   | 86.1   | 118.1  | 182.0  | 301.1  | 455.2  | 585.9  |
| 105°   | 59.0   | 60.5   | 63.6   | 69.6   | 79.4   | 95.1   | 122.6  | 175.0  | 271.1  | 408.9  | 554.9  |
| 107.5° | 72.6   | 74.2   | 77.1   | 83.1   | 92.2   | 106.8  | 130.9  | 174.4  | 252.0  | 368.0  | 500.6  |
| 110°   | 82.4   | 83.9   | 86.5   | 92.0   | 100.7  | 114.9  | 137.9  | 176.5  | 244.6  | 344.8  | 466.4  |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 5°    | 10°   | 15°   | 20°   | 25°   | 30°   | 35°   | 40°   | 45°   | 50°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 91.3  | 92.9  | 95.4  | 101.0 | 109.7 | 123.5 | 144.7 | 180.6 | 240.6 | 329.4 | 436.7 |
| 115°   | 104.2 | 106.3 | 109.3 | 114.4 | 123.1 | 136.8 | 156.1 | 187.2 | 239.1 | 312.8 | 400.8 |
| 117.5° | 117.2 | 119.5 | 122.1 | 126.7 | 136.4 | 149.1 | 168.3 | 195.9 | 240.0 | 303.0 | 379.2 |
| 120°   | 126.2 | 127.7 | 130.2 | 135.3 | 145.0 | 157.7 | 175.9 | 202.4 | 241.6 | 298.5 | 367.7 |
| 122.5° | 133.8 | 135.4 | 137.9 | 143.4 | 152.7 | 166.2 | 184.1 | 208.6 | 244.4 | 295.7 | 358.4 |
| 125°   | 145.0 | 146.0 | 149.0 | 154.6 | 164.3 | 178.0 | 195.8 | 218.2 | 248.7 | 291.9 | 346.3 |
| 127.5° | 153.4 | 154.9 | 158.7 | 164.3 | 175.0 | 188.8 | 206.0 | 226.1 | 253.6 | 290.1 | 335.8 |
| 130°   | 158.7 | 160.2 | 164.8 | 170.9 | 181.6 | 195.3 | 212.0 | 231.4 | 256.8 | 288.9 | 330.1 |
| 132.5° | 162.7 | 164.7 | 169.7 | 177.0 | 187.7 | 201.0 | 217.4 | 236.3 | 259.3 | 288.5 | 324.8 |
| 135°   | 169.9 | 171.9 | 177.5 | 185.1 | 195.8 | 209.6 | 225.3 | 242.6 | 263.0 | 287.8 | 317.9 |
| 137.5° | 176.6 | 178.7 | 184.2 | 192.3 | 203.0 | 215.6 | 230.8 | 247.3 | 265.4 | 286.8 | 311.9 |
| 140°   | 181.1 | 183.6 | 188.7 | 196.8 | 207.0 | 219.7 | 234.4 | 249.8 | 267.0 | 286.3 | 308.2 |
| 142.5° | 185.9 | 188.1 | 193.6 | 200.9 | 211.1 | 223.0 | 237.3 | 252.2 | 268.2 | 285.5 | 305.0 |
| 145°   | 193.8 | 195.3 | 199.9 | 207.5 | 216.2 | 227.8 | 241.1 | 254.9 | 269.0 | 284.3 | 300.6 |
| 147.5° | 201.7 | 202.6 | 207.1 | 213.7 | 222.0 | 232.0 | 244.2 | 256.5 | 269.0 | 282.4 | 296.3 |
| 150°   | 207.0 | 207.5 | 211.6 | 218.2 | 225.3 | 234.4 | 246.2 | 256.8 | 269.0 | 280.7 | 293.5 |
| 152.5° | 212.3 | 212.4 | 216.5 | 222.3 | 228.5 | 237.3 | 247.4 | 257.7 | 267.9 | 278.7 | 290.3 |
| 155°   | 220.3 | 220.3 | 223.3 | 228.4 | 234.0 | 241.1 | 249.8 | 257.9 | 266.5 | 275.2 | 285.3 |
| 157.5° | 226.5 | 226.9 | 229.3 | 233.9 | 238.6 | 244.2 | 251.0 | 258.4 | 264.7 | 272.0 | 279.8 |
| 160°   | 231.4 | 231.4 | 233.4 | 237.6 | 241.1 | 246.2 | 252.3 | 258.4 | 263.9 | 269.6 | 276.2 |
| 162.5° | 235.1 | 235.1 | 236.7 | 240.0 | 243.1 | 247.4 | 252.7 | 258.0 | 262.3 | 267.2 | 272.5 |
| 165°   | 240.6 | 240.0 | 241.1 | 243.6 | 245.7 | 249.2 | 253.2 | 256.8 | 259.9 | 263.5 | 267.5 |
| 167.5° | 244.8 | 244.2 | 244.6 | 246.6 | 248.0 | 250.2 | 253.2 | 256.0 | 257.4 | 259.8 | 262.8 |
| 170°   | 247.2 | 246.2 | 246.6 | 248.2 | 249.2 | 250.2 | 252.8 | 254.9 | 255.8 | 257.3 | 259.9 |
| 172.5° | 248.8 | 248.2 | 248.3 | 249.4 | 250.0 | 250.7 | 252.8 | 254.4 | 254.6 | 255.3 | 257.1 |
| 175°   | 250.7 | 250.2 | 249.8 | 250.7 | 250.7 | 251.3 | 252.3 | 253.2 | 252.8 | 252.8 | 253.8 |
| 177.5° | 251.6 | 251.3 | 250.8 | 251.3 | 251.3 | 251.3 | 251.6 | 252.4 | 251.6 | 251.3 | 251.6 |
| 180°   | 251.3 | 251.3 | 251.3 | 251.3 | 251.3 | 251.3 | 251.3 | 251.3 | 251.3 | 251.3 | 251.3 |



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**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°  | 23.5   | 23.4   | 23.3   | 23.4   | 23.3   | 23.4   | 23.5   | 23.4   |
| 90°    | 12.8   | 13.2   | 13.7   | 14.7   | 14.3   | 14.7   | 15.2   | 14.7   |
| 92.5°  | 42.8   | 34.0   | 30.1   | 27.4   | 26.5   | 24.9   | 25.4   | 24.5   |
| 95°    | 183.1  | 124.1  | 97.1   | 78.8   | 69.2   | 64.6   | 61.0   | 59.0   |
| 97.5°  | 456.5  | 365.6  | 300.0  | 239.2  | 201.6  | 178.7  | 165.0  | 160.6  |
| 100°   | 599.7  | 558.5  | 498.9  | 426.7  | 375.3  | 338.2  | 318.4  | 318.9  |
| 102.5° | 647.3  | 646.0  | 611.3  | 565.4  | 525.5  | 496.1  | 479.5  | 467.8  |
| 105°   | 661.2  | 712.0  | 721.8  | 708.5  | 685.1  | 665.8  | 649.5  | 646.9  |
| 107.5° | 621.1  | 703.7  | 748.2  | 766.3  | 766.8  | 760.3  | 754.7  | 750.1  |
| 110°   | 582.8  | 676.5  | 740.6  | 776.1  | 790.4  | 794.4  | 793.4  | 792.4  |





TEST NUMBER: P332017-940

CATALOG NUMBER: S123DIP-S1000D585U940-4F0-1E-UDD-F4

**CANDELA DISTRIBUTION (continued):**

|        | 55°   | 60°   | 65°   | 70°   | 75°   | 80°   | 85°   | 90°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 545.0 | 640.6 | 712.5 | 758.2 | 784.3 | 796.9 | 800.8 | 800.9 |
| 115°   | 494.9 | 583.4 | 658.2 | 713.5 | 751.7 | 774.1 | 784.3 | 786.8 |
| 117.5° | 458.5 | 534.9 | 602.1 | 658.4 | 698.1 | 723.7 | 738.4 | 741.8 |
| 120°   | 439.4 | 508.1 | 569.1 | 620.5 | 660.7 | 689.2 | 701.3 | 704.5 |
| 122.5° | 424.4 | 486.5 | 543.1 | 590.8 | 626.5 | 652.1 | 665.6 | 669.4 |
| 125°   | 404.3 | 459.8 | 508.6 | 549.3 | 581.8 | 604.2 | 617.0 | 620.5 |
| 127.5° | 386.8 | 436.3 | 480.4 | 517.4 | 546.4 | 565.4 | 576.9 | 580.2 |
| 130°   | 375.9 | 421.6 | 462.8 | 497.4 | 524.4 | 542.7 | 553.4 | 557.4 |
| 132.5° | 365.7 | 407.8 | 446.1 | 479.1 | 504.4 | 522.7 | 532.2 | 535.0 |
| 135°   | 352.0 | 388.1 | 421.2 | 450.1 | 475.0 | 490.3 | 499.4 | 503.0 |
| 137.5° | 339.5 | 369.1 | 397.5 | 422.7 | 443.6 | 459.1 | 466.8 | 469.1 |
| 140°   | 332.2 | 358.0 | 382.5 | 404.3 | 423.7 | 437.9 | 446.0 | 445.5 |
| 142.5° | 325.2 | 347.5 | 368.6 | 387.6 | 404.1 | 416.8 | 424.1 | 423.6 |
| 145°   | 316.8 | 333.7 | 349.9 | 364.7 | 377.4 | 388.1 | 392.2 | 393.2 |
| 147.5° | 310.0 | 323.3 | 336.5 | 347.0 | 356.6 | 363.8 | 367.7 | 368.1 |
| 150°   | 305.1 | 316.8 | 327.5 | 337.2 | 344.8 | 350.4 | 353.5 | 353.5 |
| 152.5° | 300.7 | 310.8 | 320.2 | 328.2 | 334.2 | 339.5 | 341.3 | 341.3 |
| 155°   | 294.0 | 302.1 | 309.8 | 315.8 | 320.4 | 324.5 | 325.5 | 326.0 |
| 157.5° | 286.9 | 293.6 | 299.6 | 304.3 | 308.4 | 311.4 | 312.2 | 312.1 |
| 160°   | 282.8 | 288.4 | 293.5 | 297.0 | 300.6 | 303.6 | 303.6 | 303.1 |
| 162.5° | 277.9 | 282.7 | 287.4 | 290.5 | 292.8 | 295.5 | 295.5 | 295.0 |
| 165°   | 271.6 | 274.6 | 278.2 | 280.7 | 282.8 | 284.8 | 284.3 | 284.3 |
| 167.5° | 266.1 | 268.4 | 270.5 | 272.3 | 273.2 | 274.6 | 274.1 | 274.1 |
| 170°   | 262.4 | 263.9 | 266.0 | 267.0 | 267.5 | 268.6 | 268.0 | 268.0 |
| 172.5° | 259.2 | 260.3 | 261.9 | 262.5 | 262.6 | 263.7 | 262.8 | 262.3 |
| 175°   | 254.9 | 255.3 | 256.4 | 256.4 | 256.4 | 256.8 | 256.4 | 255.8 |
| 177.5° | 252.1 | 252.4 | 252.9 | 252.9 | 252.4 | 252.9 | 252.1 | 252.1 |
| 180°   | 251.3 | 251.3 | 251.3 | 251.3 | 251.3 | 251.3 | 251.3 | 251.3 |

(END OF REPORT)