

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: P331733-940

Luminaire Tested: **S122RDIP-S865D1080U940-4F0-1E-UDD-F1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P331733-940  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-8,  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: S122RDIP-S865D1080U940-4F0-1E-UDD-F1  
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 865 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER, REGRESSED  
HOUSING  
UPLIGHT 1080 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6126.2 lumens  
Efficiency: N/A  
Efficacy: 93.7 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 0.99 / 1.16  
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')  
CIE Type: General Diffuse

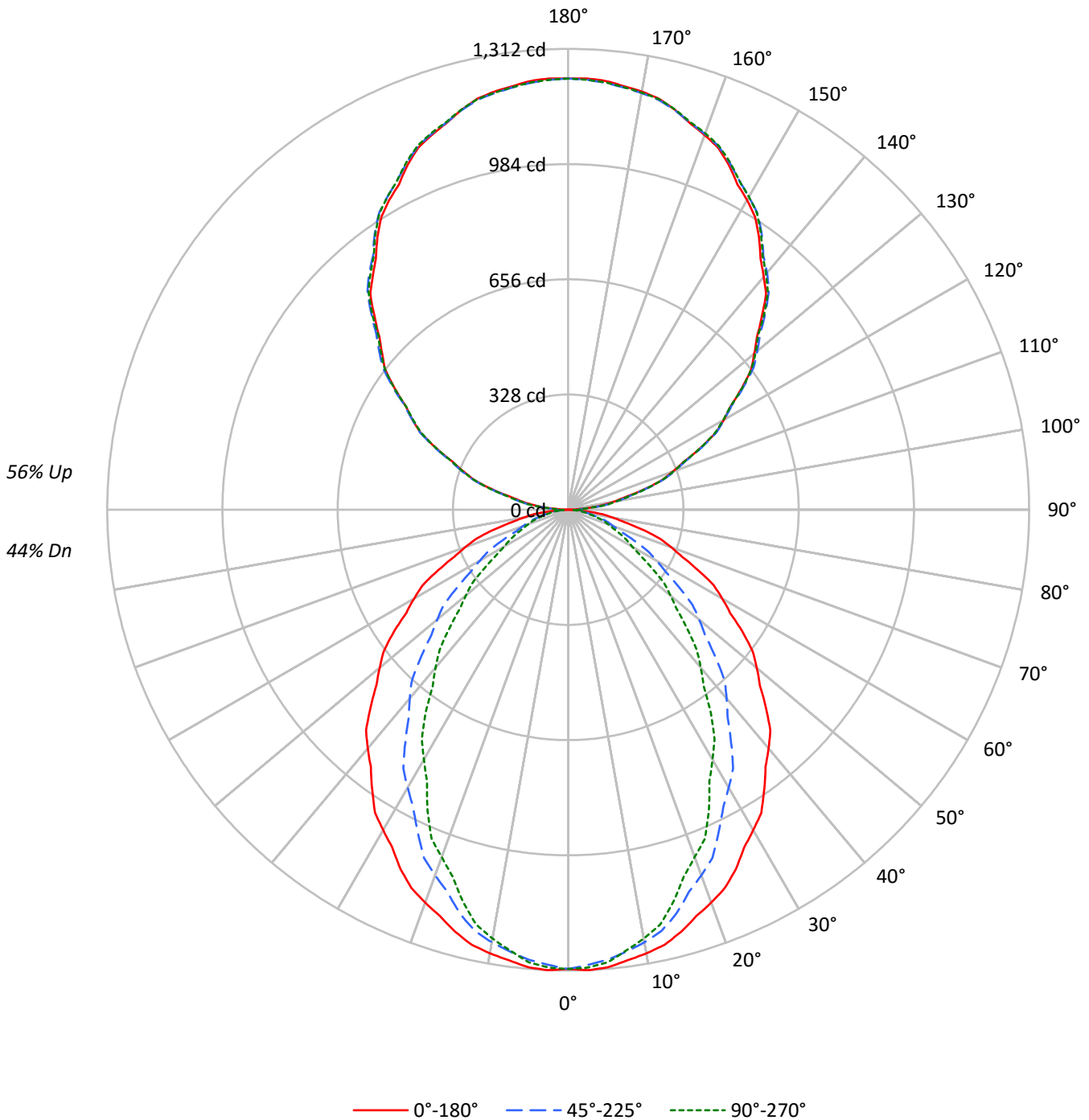
Input Watts (W): 65.4  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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   | 106 | 106 | 106 | 106 | 97 | 97 | 97 | 97 | 80 | 80 | 80 | 65 | 65 | 65 | 51 | 51 | 51 | 44 |
| 1   | 97  | 93  | 89  | 86  | 89 | 85 | 82 | 79 | 71 | 68 | 66 | 57 | 56 | 55 | 45 | 44 | 43 | 38 |
| 2   | 88  | 81  | 76  | 71  | 81 | 75 | 70 | 66 | 62 | 59 | 56 | 51 | 48 | 46 | 40 | 39 | 37 | 32 |
| 3   | 81  | 72  | 65  | 59  | 74 | 66 | 60 | 55 | 55 | 51 | 47 | 45 | 42 | 40 | 36 | 34 | 32 | 28 |
| 4   | 74  | 64  | 56  | 50  | 68 | 59 | 52 | 47 | 49 | 45 | 41 | 41 | 37 | 34 | 33 | 30 | 28 | 24 |
| 5   | 68  | 57  | 49  | 43  | 62 | 53 | 46 | 41 | 44 | 39 | 35 | 37 | 33 | 30 | 30 | 27 | 25 | 21 |
| 6   | 63  | 51  | 44  | 38  | 58 | 47 | 41 | 36 | 40 | 35 | 31 | 33 | 29 | 26 | 27 | 24 | 22 | 19 |
| 7   | 58  | 46  | 39  | 33  | 53 | 43 | 36 | 31 | 37 | 31 | 27 | 30 | 26 | 24 | 25 | 22 | 20 | 17 |
| 8   | 54  | 42  | 35  | 30  | 50 | 39 | 33 | 28 | 33 | 28 | 24 | 28 | 24 | 21 | 23 | 20 | 18 | 15 |
| 9   | 50  | 39  | 31  | 26  | 46 | 36 | 29 | 25 | 31 | 26 | 22 | 26 | 22 | 19 | 21 | 18 | 16 | 14 |
| 10  | 47  | 35  | 28  | 24  | 43 | 33 | 27 | 22 | 28 | 23 | 20 | 24 | 20 | 17 | 20 | 17 | 15 | 13 |

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

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 21111 | 21111 | 21111 |
| 5°  | 21191 | 20846 | 20960 |
| 10° | 21028 | 20505 | 20330 |
| 15° | 20787 | 19896 | 19323 |
| 20° | 20452 | 19029 | 18076 |
| 25° | 20110 | 18045 | 16864 |
| 30° | 19634 | 17031 | 15310 |
| 35° | 19170 | 15930 | 13947 |
| 40° | 18704 | 14790 | 12370 |
| 45° | 18155 | 13511 | 10942 |
| 50° | 17595 | 12215 | 9540  |
| 55° | 17022 | 10826 | 8194  |
| 60° | 16353 | 9361  | 6801  |
| 65° | 15595 | 7866  | 6193  |
| 70° | 14691 | 6477  | 5693  |
| 75° | 13587 | 5908  | 5315  |
| 80° | 11985 | 5281  | 4844  |
| 85° | 9429  | 4168  | 4168  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 122.4  | 2.0       |
| 10°-20°   | 336.0  | 5.5       |
| 20°-30°   | 471.9  | 7.7       |
| 30°-40°   | 514.6  | 8.4       |
| 40°-50°   | 473.1  | 7.7       |
| 50°-60°   | 371.6  | 6.1       |
| 60°-70°   | 242.3  | 4.0       |
| 70°-80°   | 124.9  | 2.0       |
| 80°-90°   | 37.3   | 0.6       |
| 90°-100°  | 77.8   | 1.3       |
| 100°-110° | 241.6  | 3.9       |
| 110°-120° | 412.9  | 6.7       |
| 120°-130° | 543.0  | 8.9       |
| 130°-140° | 609.4  | 9.9       |
| 140°-150° | 597.6  | 9.8       |
| 150°-160° | 501.2  | 8.2       |
| 160°-170° | 332.4  | 5.4       |
| 170°-180° | 116.2  | 1.9       |
| 0°-30°    | 930.3  | 15.2      |
| 0°-40°    | 1444.9 | 23.6      |
| 0°-60°    | 2289.6 | 37.4      |
| 0°-90°    | 2694.1 | 44.0      |
| 90°-120°  | 732.3  | 12.0      |
| 90°-150°  | 2482.3 | 40.5      |
| 90°-180°  | 3432.0 | 56.0      |
| 0°-180°   | 6126.2 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 1308 | 1308  | 1308 | 1308  | 1308 |      |
| 5°   | 1308 | 1301  | 1286 | 1296  | 1293 | 124  |
| 15°  | 1244 | 1229  | 1190 | 1168  | 1156 | 350  |
| 25°  | 1129 | 1089  | 1013 | 966   | 947  | 519  |
| 35°  | 973  | 910   | 808  | 736   | 708  | 608  |
| 45°  | 795  | 713   | 592  | 511   | 479  | 614  |
| 55°  | 605  | 510   | 385  | 316   | 291  | 540  |
| 65°  | 408  | 312   | 206  | 168   | 162  | 405  |
| 75°  | 218  | 137   | 95   | 87    | 85   | 230  |
| 85°  | 51   | 27    | 22   | 22    | 22   | 60   |
| 90°  | 1    | 14    | 36   | 34    | 35   | 5    |
| 95°  | 54   | 64    | 66   | 66    | 64   | 62   |
| 105° | 223  | 226   | 228  | 230   | 230  | 235  |
| 115° | 414  | 420   | 418  | 417   | 414  | 410  |
| 125° | 603  | 611   | 609  | 606   | 605  | 538  |
| 135° | 780  | 791   | 793  | 792   | 789  | 602  |
| 145° | 947  | 954   | 960  | 961   | 957  | 591  |
| 155° | 1082 | 1086  | 1089 | 1093  | 1091 | 498  |
| 165° | 1178 | 1177  | 1177 | 1183  | 1179 | 332  |
| 175° | 1225 | 1222  | 1220 | 1227  | 1221 | 116  |
| 180° | 1227 | 1227  | 1227 | 1227  | 1227 |      |



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**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1307.5 | 1307.5 | 1307.5 | 1307.5 | 1307.5 | 1307.5 | 1307.5 | 1307.5 | 1307.5 | 1307.5 | 1307.5 |
| 2.5°   | 1312.2 | 1311.2 | 1310.1 | 1309.0 | 1308.1 | 1306.4 | 1304.0 | 1301.7 | 1299.4 | 1297.1 | 1299.2 |
| 5°     | 1307.5 | 1306.2 | 1304.8 | 1303.5 | 1302.3 | 1299.8 | 1296.5 | 1293.1 | 1289.6 | 1286.2 | 1288.5 |
| 7.5°   | 1294.0 | 1292.4 | 1290.8 | 1289.1 | 1287.5 | 1284.7 | 1280.7 | 1276.7 | 1272.6 | 1268.6 | 1269.4 |
| 10°    | 1282.6 | 1280.8 | 1279.0 | 1277.1 | 1275.2 | 1271.8 | 1266.5 | 1261.2 | 1256.0 | 1250.7 | 1249.9 |
| 12.5°  | 1268.5 | 1266.1 | 1263.9 | 1261.7 | 1259.4 | 1254.9 | 1248.1 | 1241.4 | 1234.7 | 1228.0 | 1226.5 |
| 15°    | 1243.6 | 1240.7 | 1237.8 | 1234.9 | 1232.0 | 1226.1 | 1217.2 | 1208.3 | 1199.3 | 1190.3 | 1185.4 |
| 17.5°  | 1213.1 | 1208.6 | 1204.3 | 1199.8 | 1195.4 | 1187.5 | 1176.0 | 1164.5 | 1153.1 | 1141.6 | 1135.7 |
| 20°    | 1190.3 | 1185.1 | 1179.8 | 1174.6 | 1169.3 | 1160.1 | 1146.9 | 1133.8 | 1120.7 | 1107.5 | 1100.9 |
| 22.5°  | 1165.7 | 1159.8 | 1154.0 | 1148.1 | 1142.2 | 1131.8 | 1117.0 | 1102.2 | 1087.4 | 1072.5 | 1064.0 |
| 25°    | 1128.8 | 1120.4 | 1112.0 | 1103.6 | 1095.2 | 1082.3 | 1064.9 | 1047.6 | 1030.2 | 1012.9 | 1002.1 |
| 27.5°  | 1084.3 | 1075.1 | 1066.0 | 1056.9 | 1047.8 | 1033.4 | 1013.8 | 994.3  | 974.6  | 955.1  | 942.5  |
| 30°    | 1053.1 | 1043.1 | 1033.1 | 1023.1 | 1013.2 | 997.6  | 976.6  | 955.6  | 934.5  | 913.5  | 900.1  |
| 32.5°  | 1022.8 | 1011.1 | 999.4  | 987.7  | 976.1  | 959.6  | 938.1  | 916.6  | 895.2  | 873.7  | 858.4  |
| 35°    | 972.6  | 959.2  | 945.8  | 932.4  | 919.0  | 900.7  | 877.5  | 854.4  | 831.3  | 808.2  | 791.6  |
| 37.5°  | 922.5  | 907.8  | 893.0  | 878.2  | 863.5  | 843.8  | 819.2  | 794.5  | 769.9  | 745.2  | 726.9  |
| 40°    | 887.4  | 871.6  | 855.9  | 840.1  | 824.3  | 803.7  | 778.2  | 752.7  | 727.2  | 701.7  | 683.0  |
| 42.5°  | 851.5  | 834.8  | 818.2  | 801.6  | 785.0  | 763.5  | 737.2  | 710.8  | 684.5  | 658.1  | 638.8  |
| 45°    | 795.1  | 777.5  | 759.9  | 742.3  | 724.7  | 702.0  | 674.5  | 646.8  | 619.2  | 591.7  | 572.9  |
| 47.5°  | 740.2  | 721.6  | 702.9  | 684.2  | 665.6  | 641.9  | 613.5  | 585.0  | 556.4  | 528.0  | 509.4  |
| 50°    | 700.5  | 681.8  | 663.2  | 644.4  | 625.8  | 602.0  | 573.1  | 544.1  | 515.2  | 486.3  | 468.1  |
| 52.5°  | 661.6  | 642.1  | 622.7  | 603.2  | 583.6  | 559.7  | 531.5  | 503.1  | 474.8  | 446.6  | 429.0  |
| 55°    | 604.7  | 584.2  | 563.7  | 543.1  | 522.6  | 498.1  | 469.8  | 441.3  | 413.0  | 384.6  | 368.8  |
| 57.5°  | 546.2  | 525.1  | 504.1  | 483.0  | 462.1  | 437.9  | 410.5  | 383.3  | 356.0  | 328.7  | 314.2  |
| 60°    | 506.4  | 485.4  | 464.4  | 443.4  | 422.3  | 398.2  | 371.1  | 344.0  | 317.0  | 289.9  | 276.5  |
| 62.5°  | 467.6  | 446.6  | 425.5  | 404.5  | 383.4  | 360.1  | 334.2  | 308.4  | 282.6  | 256.7  | 244.0  |
| 65°    | 408.2  | 386.9  | 365.6  | 344.3  | 323.1  | 300.5  | 276.9  | 253.2  | 229.5  | 205.9  | 197.0  |
| 67.5°  | 351.0  | 329.8  | 308.7  | 287.5  | 266.4  | 245.1  | 223.9  | 202.6  | 181.3  | 160.0  | 155.9  |
| 70°    | 311.2  | 290.7  | 270.2  | 249.7  | 229.2  | 209.8  | 191.7  | 173.5  | 155.4  | 137.2  | 134.6  |
| 72.5°  | 273.3  | 253.7  | 234.0  | 214.4  | 194.7  | 177.5  | 163.0  | 148.4  | 133.8  | 119.3  | 117.1  |
| 75°    | 217.8  | 199.3  | 180.9  | 162.5  | 144.1  | 130.5  | 121.5  | 112.5  | 103.6  | 94.7   | 92.8   |
| 77.5°  | 163.1  | 146.9  | 130.7  | 114.6  | 98.4   | 88.3   | 83.9   | 79.6   | 75.3   | 71.0   | 69.9   |
| 80°    | 128.9  | 115.6  | 102.2  | 88.7   | 75.3   | 67.3   | 64.6   | 62.1   | 59.4   | 56.8   | 55.7   |
| 82.5°  | 97.7   | 87.3   | 76.8   | 66.3   | 55.9   | 49.8   | 48.0   | 46.2   | 44.4   | 42.6   | 42.0   |
| 85°    | 50.9   | 45.4   | 39.9   | 34.3   | 28.8   | 25.7   | 24.9   | 24.1   | 23.3   | 22.5   | 22.5   |
| 87.5°  | 15.3   | 14.2   | 13.1   | 11.9   | 10.8   | 10.8   | 11.8   | 12.8   | 13.8   | 14.8   | 14.5   |
| 90°    | 1.1    | 3.8    | 6.6    | 9.4    | 12.1   | 16.0   | 21.0   | 26.1   | 31.2   | 36.3   | 35.8   |
| 92.5°  | 18.5   | 20.4   | 22.5   | 24.5   | 26.6   | 28.2   | 29.3   | 30.6   | 31.7   | 32.9   | 33.0   |
| 95°    | 53.9   | 56.2   | 58.5   | 60.7   | 63.0   | 64.5   | 64.9   | 65.4   | 65.8   | 66.3   | 66.3   |
| 97.5°  | 98.4   | 100.4  | 102.5  | 104.5  | 106.5  | 108.0  | 108.8  | 109.7  | 110.6  | 111.5  | 111.5  |
| 100°   | 131.5  | 133.4  | 135.3  | 137.1  | 138.9  | 140.2  | 140.9  | 141.5  | 142.2  | 142.9  | 142.9  |
| 102.5° | 166.4  | 167.8  | 169.3  | 170.8  | 172.3  | 173.4  | 174.3  | 175.1  | 176.0  | 176.9  | 177.1  |
| 105°   | 222.7  | 223.4  | 224.1  | 224.8  | 225.4  | 226.0  | 226.5  | 226.9  | 227.4  | 227.8  | 228.4  |
| 107.5° | 279.5  | 280.4  | 281.5  | 282.5  | 283.5  | 284.0  | 284.0  | 284.0  | 284.0  | 284.0  | 284.2  |
| 110°   | 315.9  | 317.3  | 318.7  | 320.0  | 321.5  | 322.2  | 322.2  | 322.2  | 322.2  | 322.2  | 322.2  |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 355.7  | 357.0  | 358.5  | 359.8  | 361.2  | 361.9  | 361.6  | 361.4  | 361.2  | 361.1  | 360.5  |
| 115°   | 414.3  | 415.7  | 417.1  | 418.5  | 419.8  | 420.3  | 419.8  | 419.4  | 418.9  | 418.5  | 418.2  |
| 117.5° | 472.7  | 474.6  | 476.4  | 478.2  | 480.1  | 480.4  | 479.1  | 477.8  | 476.5  | 475.2  | 474.7  |
| 120°   | 511.7  | 513.5  | 515.4  | 517.2  | 519.1  | 519.1  | 517.2  | 515.4  | 513.5  | 511.7  | 511.7  |
| 122.5° | 547.3  | 549.6  | 551.7  | 553.9  | 556.2  | 556.6  | 555.4  | 554.0  | 552.8  | 551.4  | 550.9  |
| 125°   | 602.8  | 604.9  | 607.0  | 609.0  | 611.1  | 611.8  | 611.1  | 610.5  | 609.8  | 609.0  | 608.3  |
| 127.5° | 656.9  | 659.5  | 662.2  | 664.8  | 667.4  | 668.3  | 667.4  | 666.6  | 665.8  | 664.9  | 664.1  |
| 130°   | 690.9  | 693.8  | 696.9  | 699.8  | 702.8  | 704.1  | 703.6  | 703.2  | 702.8  | 702.3  | 701.8  |
| 132.5° | 729.0  | 731.5  | 733.9  | 736.3  | 738.8  | 740.0  | 740.1  | 740.2  | 740.3  | 740.4  | 739.4  |
| 135°   | 780.0  | 782.5  | 785.1  | 787.6  | 790.1  | 791.6  | 792.0  | 792.5  | 793.0  | 793.4  | 793.2  |
| 137.5° | 833.6  | 835.7  | 837.8  | 839.8  | 841.9  | 843.2  | 843.8  | 844.5  | 845.0  | 845.6  | 845.4  |
| 140°   | 865.9  | 868.0  | 870.0  | 872.2  | 874.2  | 875.8  | 877.0  | 878.2  | 879.3  | 880.4  | 880.4  |
| 142.5° | 899.1  | 901.2  | 903.2  | 905.3  | 907.3  | 908.7  | 909.5  | 910.3  | 911.2  | 912.0  | 912.1  |
| 145°   | 946.7  | 948.3  | 949.9  | 951.5  | 953.1  | 954.7  | 956.0  | 957.4  | 958.8  | 960.2  | 960.4  |
| 147.5° | 989.2  | 991.1  | 993.0  | 995.0  | 996.9  | 998.4  | 999.3  | 1000.2 | 1001.1 | 1002.0 | 1002.6 |
| 150°   | 1018.2 | 1019.6 | 1020.9 | 1022.3 | 1023.7 | 1024.8 | 1025.8 | 1026.7 | 1027.6 | 1028.6 | 1029.2 |
| 152.5° | 1043.8 | 1045.3 | 1046.6 | 1048.0 | 1049.4 | 1050.6 | 1051.8 | 1052.8 | 1054.0 | 1055.1 | 1056.0 |
| 155°   | 1082.4 | 1083.1 | 1083.8 | 1084.5 | 1085.2 | 1085.8 | 1086.5 | 1087.3 | 1088.0 | 1088.6 | 1089.8 |
| 157.5° | 1115.4 | 1115.8 | 1116.2 | 1116.7 | 1117.2 | 1117.6 | 1118.0 | 1118.5 | 1118.8 | 1119.3 | 1120.9 |
| 160°   | 1135.2 | 1135.7 | 1136.1 | 1136.6 | 1137.1 | 1137.4 | 1137.6 | 1137.9 | 1138.1 | 1138.4 | 1139.7 |
| 162.5° | 1153.4 | 1153.5 | 1153.6 | 1153.7 | 1153.9 | 1154.0 | 1154.2 | 1154.4 | 1154.7 | 1154.9 | 1156.5 |
| 165°   | 1177.7 | 1177.5 | 1177.2 | 1177.0 | 1176.8 | 1176.7 | 1176.7 | 1176.7 | 1176.7 | 1176.7 | 1178.3 |
| 167.5° | 1198.0 | 1197.3 | 1196.6 | 1196.0 | 1195.2 | 1194.9 | 1194.8 | 1194.8 | 1194.7 | 1194.7 | 1196.3 |
| 170°   | 1208.8 | 1208.1 | 1207.4 | 1206.7 | 1206.0 | 1205.6 | 1205.3 | 1205.1 | 1204.9 | 1204.6 | 1206.2 |
| 172.5° | 1216.2 | 1215.6 | 1214.9 | 1214.2 | 1213.4 | 1213.0 | 1212.8 | 1212.5 | 1212.3 | 1212.1 | 1213.7 |
| 175°   | 1225.4 | 1224.7 | 1224.0 | 1223.2 | 1222.6 | 1222.0 | 1221.6 | 1221.1 | 1220.7 | 1220.1 | 1221.8 |
| 177.5° | 1229.0 | 1228.5 | 1228.0 | 1227.4 | 1226.9 | 1226.4 | 1226.0 | 1225.7 | 1225.3 | 1224.9 | 1226.0 |
| 180°   | 1227.4 | 1227.4 | 1227.4 | 1227.4 | 1227.4 | 1227.4 | 1227.4 | 1227.4 | 1227.4 | 1227.4 | 1227.4 |



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CATALOG NUMBER: S122RDIP-S865D1080U940-4F0-1E-UDD-F1

**CANDELA DISTRIBUTION (continued):**

|        | 55°    | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1307.5 | 1307.5 | 1307.5 | 1307.5 | 1307.5 | 1307.5 | 1307.5 | 1307.5 |
| 2.5°   | 1301.3 | 1303.4 | 1305.5 | 1306.4 | 1305.9 | 1305.5 | 1305.1 | 1304.7 |
| 5°     | 1290.9 | 1293.2 | 1295.7 | 1296.5 | 1295.7 | 1294.9 | 1294.1 | 1293.2 |
| 7.5°   | 1270.1 | 1270.7 | 1271.4 | 1271.0 | 1269.7 | 1268.4 | 1266.9 | 1265.6 |
| 10°    | 1249.1 | 1248.3 | 1247.5 | 1246.3 | 1244.7 | 1243.2 | 1241.6 | 1240.0 |
| 12.5°  | 1225.1 | 1223.7 | 1222.3 | 1220.3 | 1217.6 | 1215.0 | 1212.4 | 1209.8 |
| 15°    | 1180.4 | 1175.4 | 1170.4 | 1166.5 | 1164.0 | 1161.3 | 1158.7 | 1156.0 |
| 17.5°  | 1129.7 | 1123.7 | 1117.8 | 1112.6 | 1108.0 | 1103.6 | 1099.0 | 1094.5 |
| 20°    | 1094.4 | 1087.8 | 1081.2 | 1075.0 | 1069.3 | 1063.5 | 1057.7 | 1052.0 |
| 22.5°  | 1055.6 | 1047.1 | 1038.7 | 1032.2 | 1028.0 | 1023.6 | 1019.3 | 1015.0 |
| 25°    | 991.3  | 980.5  | 969.7  | 962.3  | 958.4  | 954.5  | 950.6  | 946.6  |
| 27.5°  | 930.0  | 917.4  | 904.8  | 895.5  | 889.2  | 882.9  | 876.6  | 870.4  |
| 30°    | 886.6  | 873.3  | 859.8  | 849.5  | 842.5  | 835.4  | 828.3  | 821.2  |
| 32.5°  | 843.1  | 827.8  | 812.5  | 801.5  | 794.9  | 788.2  | 781.5  | 774.8  |
| 35°    | 775.0  | 758.5  | 741.9  | 730.8  | 725.0  | 719.2  | 713.4  | 707.6  |
| 37.5°  | 708.7  | 690.5  | 672.3  | 659.8  | 653.2  | 646.5  | 639.9  | 633.3  |
| 40°    | 664.3  | 645.7  | 627.0  | 614.2  | 607.4  | 600.6  | 593.7  | 586.9  |
| 42.5°  | 619.6  | 600.2  | 580.9  | 567.9  | 561.3  | 554.7  | 548.0  | 541.4  |
| 45°    | 554.3  | 535.7  | 516.9  | 504.4  | 498.1  | 491.9  | 485.5  | 479.2  |
| 47.5°  | 490.8  | 472.3  | 453.7  | 441.6  | 435.9  | 430.1  | 424.4  | 418.7  |
| 50°    | 450.0  | 431.9  | 413.8  | 401.9  | 396.4  | 390.8  | 385.3  | 379.8  |
| 52.5°  | 411.5  | 394.0  | 376.5  | 365.2  | 360.1  | 355.0  | 349.9  | 344.8  |
| 55°    | 353.0  | 337.2  | 321.5  | 311.0  | 306.0  | 301.0  | 296.0  | 291.1  |
| 57.5°  | 299.8  | 285.3  | 270.9  | 261.5  | 257.3  | 253.1  | 248.9  | 244.7  |
| 60°    | 263.1  | 249.7  | 236.2  | 227.5  | 223.2  | 219.0  | 214.8  | 210.6  |
| 62.5°  | 231.2  | 218.5  | 205.6  | 198.0  | 195.5  | 193.0  | 190.4  | 187.9  |
| 65°    | 188.0  | 179.1  | 170.1  | 165.2  | 164.4  | 163.7  | 162.9  | 162.1  |
| 67.5°  | 151.8  | 147.7  | 143.6  | 141.1  | 140.3  | 139.4  | 138.6  | 137.8  |
| 70°    | 132.0  | 129.4  | 126.7  | 124.9  | 123.9  | 122.8  | 121.7  | 120.6  |
| 72.5°  | 114.9  | 112.6  | 110.4  | 109.1  | 108.3  | 107.7  | 107.1  | 106.5  |
| 75°    | 91.0   | 89.2   | 87.3   | 86.2   | 86.0   | 85.7   | 85.4   | 85.2   |
| 77.5°  | 68.9   | 67.9   | 66.8   | 66.1   | 65.6   | 65.2   | 64.8   | 64.4   |
| 80°    | 54.7   | 53.7   | 52.6   | 52.1   | 52.1   | 52.1   | 52.1   | 52.1   |
| 82.5°  | 41.4   | 40.7   | 40.0   | 39.8   | 39.8   | 39.8   | 39.8   | 39.8   |
| 85°    | 22.5   | 22.5   | 22.5   | 22.5   | 22.5   | 22.5   | 22.5   | 22.5   |
| 87.5°  | 14.2   | 13.9   | 13.6   | 13.5   | 13.6   | 13.6   | 13.6   | 13.6   |
| 90°    | 35.3   | 34.9   | 34.4   | 34.3   | 34.5   | 34.8   | 35.0   | 35.2   |
| 92.5°  | 33.1   | 33.2   | 33.3   | 33.3   | 33.4   | 33.4   | 33.5   | 33.5   |
| 95°    | 66.3   | 66.3   | 66.3   | 66.1   | 65.6   | 65.2   | 64.6   | 64.2   |
| 97.5°  | 111.5  | 111.5  | 111.5  | 111.5  | 111.4  | 111.4  | 111.3  | 111.3  |
| 100°   | 142.9  | 142.9  | 142.9  | 142.9  | 142.6  | 142.4  | 142.1  | 141.9  |
| 102.5° | 177.3  | 177.5  | 177.6  | 177.6  | 177.4  | 177.2  | 176.9  | 176.7  |
| 105°   | 228.8  | 229.3  | 229.7  | 230.0  | 230.0  | 230.0  | 230.0  | 230.0  |
| 107.5° | 284.4  | 284.5  | 284.7  | 284.3  | 283.3  | 282.2  | 281.2  | 280.1  |
| 110°   | 322.2  | 322.2  | 322.2  | 321.8  | 321.1  | 320.4  | 319.7  | 319.1  |





TEST NUMBER: P331733-940

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**CANDELA DISTRIBUTION (continued):**

|        | 55°    | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 360.0  | 359.4  | 358.9  | 358.4  | 357.8  | 357.3  | 356.9  | 356.3  |
| 115°   | 418.0  | 417.8  | 417.5  | 417.1  | 416.4  | 415.7  | 415.0  | 414.3  |
| 117.5° | 474.1  | 473.6  | 473.1  | 472.4  | 471.7  | 471.0  | 470.3  | 469.7  |
| 120°   | 511.7  | 511.7  | 511.7  | 511.3  | 510.7  | 510.0  | 509.3  | 508.5  |
| 122.5° | 550.4  | 549.8  | 549.2  | 548.8  | 548.2  | 547.7  | 547.2  | 546.7  |
| 125°   | 607.7  | 607.0  | 606.3  | 605.8  | 605.6  | 605.4  | 605.1  | 604.9  |
| 127.5° | 663.3  | 662.5  | 661.6  | 660.8  | 660.1  | 659.4  | 658.7  | 657.9  |
| 130°   | 701.3  | 700.9  | 700.4  | 699.7  | 698.8  | 697.9  | 697.0  | 696.1  |
| 132.5° | 738.3  | 737.4  | 736.4  | 735.5  | 734.8  | 734.0  | 733.3  | 732.5  |
| 135°   | 793.0  | 792.7  | 792.5  | 792.0  | 791.3  | 790.7  | 790.0  | 789.3  |
| 137.5° | 845.3  | 845.1  | 844.9  | 844.4  | 843.4  | 842.5  | 841.6  | 840.6  |
| 140°   | 880.4  | 880.4  | 880.4  | 879.9  | 879.0  | 878.2  | 877.2  | 876.3  |
| 142.5° | 912.3  | 912.5  | 912.7  | 912.3  | 911.3  | 910.4  | 909.5  | 908.6  |
| 145°   | 960.6  | 960.9  | 961.1  | 960.7  | 959.8  | 958.9  | 958.0  | 957.1  |
| 147.5° | 1003.1 | 1003.5 | 1004.1 | 1003.9 | 1003.0 | 1002.1 | 1001.2 | 1000.4 |
| 150°   | 1029.9 | 1030.6 | 1031.4 | 1031.4 | 1030.6 | 1029.9 | 1029.2 | 1028.6 |
| 152.5° | 1056.9 | 1057.7 | 1058.5 | 1058.5 | 1057.7 | 1056.9 | 1056.0 | 1055.1 |
| 155°   | 1090.9 | 1092.1 | 1093.2 | 1093.4 | 1092.8 | 1092.1 | 1091.4 | 1090.7 |
| 157.5° | 1122.4 | 1124.0 | 1125.5 | 1125.8 | 1124.6 | 1123.6 | 1122.5 | 1121.3 |
| 160°   | 1141.1 | 1142.5 | 1143.9 | 1144.1 | 1143.2 | 1142.3 | 1141.3 | 1140.4 |
| 162.5° | 1158.1 | 1159.6 | 1161.2 | 1161.4 | 1160.3 | 1159.2 | 1158.1 | 1157.0 |
| 165°   | 1179.9 | 1181.5 | 1183.1 | 1183.3 | 1182.2 | 1181.1 | 1179.9 | 1178.8 |
| 167.5° | 1197.9 | 1199.5 | 1201.1 | 1201.3 | 1200.2 | 1198.9 | 1197.7 | 1196.6 |
| 170°   | 1207.8 | 1209.4 | 1211.0 | 1211.2 | 1209.8 | 1208.4 | 1207.0 | 1205.7 |
| 172.5° | 1215.3 | 1216.9 | 1218.5 | 1218.6 | 1217.3 | 1215.8 | 1214.5 | 1213.1 |
| 175°   | 1223.4 | 1225.0 | 1226.6 | 1226.7 | 1225.4 | 1224.0 | 1222.6 | 1221.2 |
| 177.5° | 1227.2 | 1228.2 | 1229.3 | 1229.3 | 1228.2 | 1227.2 | 1226.0 | 1224.9 |
| 180°   | 1227.4 | 1227.4 | 1227.4 | 1227.4 | 1227.4 | 1227.4 | 1227.4 | 1227.4 |

(END OF REPORT)