

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: P332928-830

Luminaire Tested: **SA4XXRDIP-C795D365U830-4F0-1E-UDD-F**

Issue Date: 10/7/2019

**Test Information**

Test Method: LM-79-08  
Report Number: P332928-830  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-6,  
Test Lab: INNOVATION CENTER  
Issue Date: 10/7/2019  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: SA4XXRDIP-C795D365U830-4F0-1E-UDD-F  
Description: DEFINE 4 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 795 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER, REGRESSED  
HOUSING  
UPLIGHT 365 LUMENS PER FOOT, NO LENS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4404.0 lumens  
Efficiency: N/A  
Efficacy: 125.8 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.09 / 1.24  
Luminous Opening: Rectangular (W 0.33' x L: 4' x H: 0')  
CIE Type: Semi-Direct

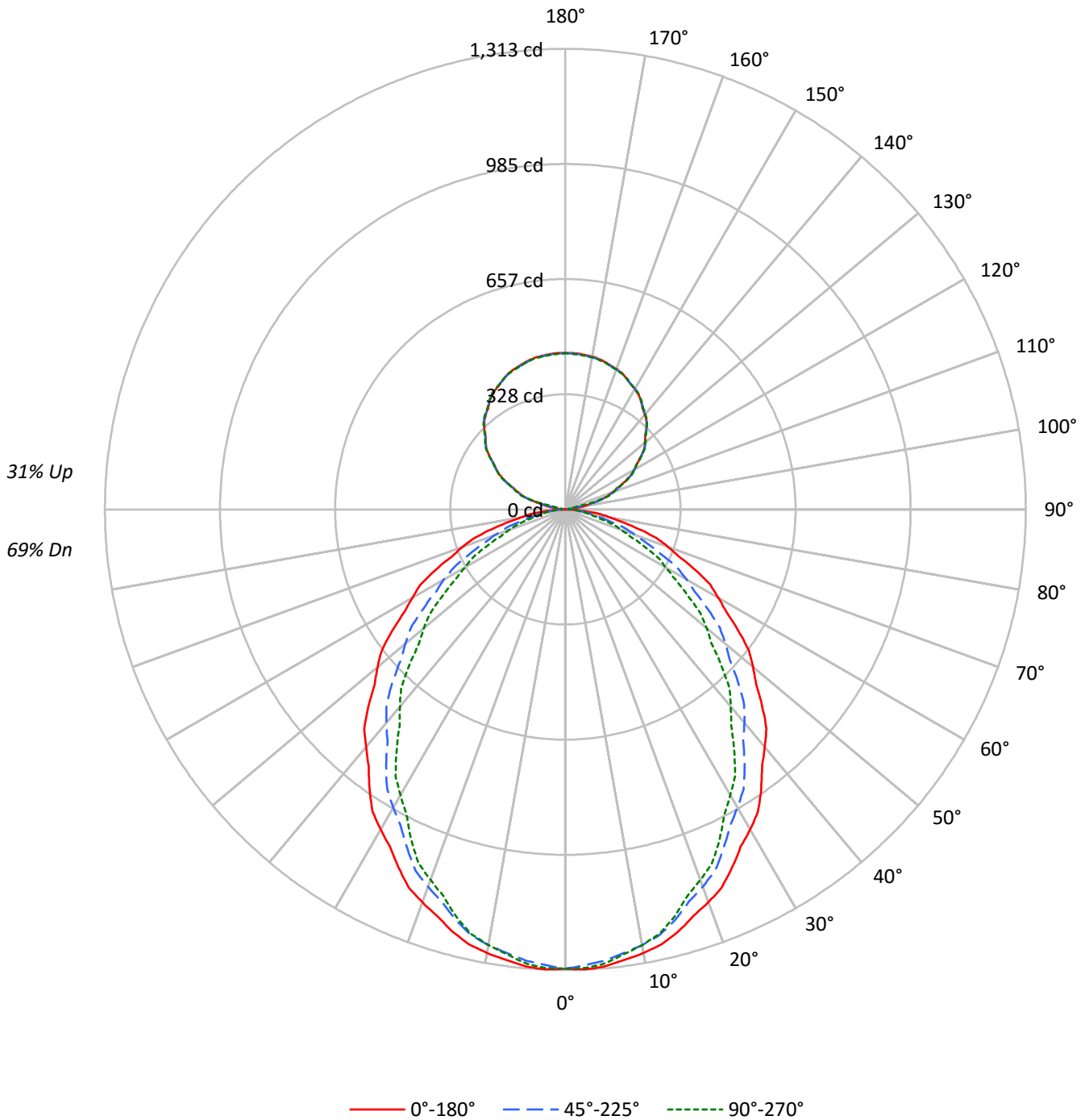
Input Watts (W): 35  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





TEST NUMBER: P332928-830

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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

|     |     |     |     |     |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|----|----|----|----|----|----|----|----|----|---|--|--|--|--|--|--|----|--|--|--|--|--|--|--|--|---|
| RF  | 20  |     |     |     |     |     |     |     |    | 20 |    |    |    |    |    |    |    |    | 20 |    |   |  |  |  |  |  |  | 20 |  |  |  |  |  |  |  |  |   |
| RC  | 80  |     |     |     |     |     |     |     |    | 50 |    |    |    |    |    |    |    |    | 30 |    |   |  |  |  |  |  |  | 10 |  |  |  |  |  |  |  |  | 0 |
| RW  | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 0 |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| RCR |     |     |     |     |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 0   | 112 | 112 | 112 | 112 | 105 | 105 | 105 | 105 | 94 | 94 | 94 | 83 | 83 | 83 | 73 | 73 | 73 | 69 |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 1   | 102 | 98  | 94  | 91  | 97  | 93  | 89  | 86  | 83 | 80 | 78 | 74 | 72 | 70 | 65 | 64 | 63 | 59 |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 2   | 94  | 86  | 80  | 75  | 88  | 82  | 76  | 71  | 73 | 69 | 65 | 65 | 62 | 59 | 58 | 56 | 53 | 50 |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 3   | 86  | 76  | 69  | 63  | 81  | 72  | 66  | 60  | 65 | 60 | 55 | 58 | 54 | 50 | 52 | 49 | 46 | 42 |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 4   | 79  | 68  | 60  | 53  | 74  | 64  | 57  | 51  | 58 | 52 | 47 | 52 | 47 | 44 | 46 | 43 | 40 | 37 |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 5   | 72  | 60  | 52  | 46  | 68  | 58  | 50  | 45  | 52 | 46 | 41 | 47 | 42 | 38 | 42 | 38 | 35 | 32 |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 6   | 67  | 54  | 46  | 40  | 63  | 52  | 44  | 39  | 47 | 41 | 36 | 43 | 37 | 34 | 38 | 34 | 31 | 28 |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 7   | 62  | 49  | 41  | 36  | 58  | 47  | 40  | 34  | 43 | 37 | 32 | 39 | 34 | 30 | 35 | 31 | 28 | 25 |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 8   | 58  | 45  | 37  | 32  | 54  | 43  | 36  | 31  | 39 | 33 | 29 | 36 | 31 | 27 | 32 | 28 | 25 | 23 |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 9   | 54  | 41  | 34  | 29  | 51  | 40  | 32  | 28  | 36 | 30 | 26 | 33 | 28 | 24 | 30 | 26 | 23 | 21 |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 10  | 50  | 38  | 31  | 26  | 48  | 36  | 30  | 25  | 33 | 28 | 24 | 30 | 26 | 22 | 28 | 24 | 21 | 19 |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |

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

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 10571 | 10571 | 10571 |
| 5°  | 10594 | 10464 | 10529 |
| 10° | 10528 | 10339 | 10339 |
| 15° | 10407 | 10122 | 10046 |
| 20° | 10241 | 9836  | 9655  |
| 25° | 10029 | 9502  | 9260  |
| 30° | 9822  | 9149  | 8766  |
| 35° | 9594  | 8784  | 8270  |
| 40° | 9319  | 8368  | 7734  |
| 45° | 9065  | 7955  | 7188  |
| 50° | 8776  | 7479  | 6610  |
| 55° | 8466  | 6984  | 5983  |
| 60° | 8126  | 6442  | 5341  |
| 65° | 7815  | 5765  | 4713  |
| 70° | 7360  | 5016  | 4001  |
| 75° | 6784  | 4161  | 3250  |
| 80° | 5918  | 3166  | 2985  |
| 85° | 5011  | 2881  | 2686  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 123.0  | 2.8       |
| 10°-20°   | 343.0  | 7.8       |
| 20°-30°   | 495.3  | 11.2      |
| 30°-40°   | 561.4  | 12.7      |
| 40°-50°   | 542.1  | 12.3      |
| 50°-60°   | 450.8  | 10.2      |
| 60°-70°   | 311.3  | 7.1       |
| 70°-80°   | 157.8  | 3.6       |
| 80°-90°   | 41.8   | 0.9       |
| 90°-100°  | 15.2   | 0.3       |
| 100°-110° | 97.1   | 2.2       |
| 110°-120° | 185.8  | 4.2       |
| 120°-130° | 235.8  | 5.4       |
| 130°-140° | 252.3  | 5.7       |
| 140°-150° | 236.0  | 5.4       |
| 150°-160° | 190.3  | 4.3       |
| 160°-170° | 122.7  | 2.8       |
| 170°-180° | 42.3   | 1.0       |
| 0°-30°    | 961.2  | 21.8      |
| 0°-40°    | 1522.6 | 34.6      |
| 0°-60°    | 2515.6 | 57.1      |
| 0°-90°    | 3026.4 | 68.7      |
| 90°-120°  | 298.1  | 6.8       |
| 90°-150°  | 1022.3 | 23.2      |
| 90°-180°  | 1378.0 | 31.3      |
| 0°-180°   | 4404.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 1309 | 1309  | 1309 | 1309  | 1309 |      |
| 5°   | 1307 | 1303  | 1291 | 1301  | 1299 | 124  |
| 15°  | 1245 | 1235  | 1211 | 1209  | 1202 | 351  |
| 25°  | 1126 | 1106  | 1067 | 1050  | 1040 | 519  |
| 35°  | 974  | 940   | 891  | 858   | 839  | 608  |
| 45°  | 794  | 756   | 697  | 649   | 630  | 612  |
| 55°  | 602  | 560   | 496  | 446   | 425  | 538  |
| 65°  | 409  | 365   | 302  | 260   | 247  | 404  |
| 75°  | 218  | 180   | 133  | 111   | 104  | 230  |
| 85°  | 54   | 35    | 31   | 29    | 29   | 61   |
| 90°  | 1    | 5     | 7    | 9     | 10   | 3    |
| 95°  | 18   | 8     | 7    | 9     | 10   | 24   |
| 105° | 100  | 102   | 104  | 106   | 95   | 105  |
| 115° | 187  | 188   | 188  | 188   | 188  | 184  |
| 125° | 263  | 264   | 264  | 265   | 265  | 235  |
| 135° | 326  | 326   | 327  | 328   | 329  | 251  |
| 145° | 376  | 377   | 377  | 378   | 378  | 235  |
| 155° | 413  | 413   | 412  | 413   | 412  | 190  |
| 165° | 435  | 434   | 434  | 436   | 433  | 123  |
| 175° | 445  | 444   | 444  | 446   | 443  | 42   |
| 180° | 445  | 445   | 445  | 445   | 445  |      |



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**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1309.4 | 1309.4 | 1309.4 | 1309.4 | 1309.4 | 1309.4 | 1309.4 | 1309.4 | 1309.4 | 1309.4 | 1309.4 |
| 2.5°   | 1312.6 | 1311.8 | 1311.1 | 1310.4 | 1309.7 | 1308.3 | 1306.4 | 1304.5 | 1302.5 | 1300.5 | 1302.5 |
| 5°     | 1307.3 | 1306.5 | 1305.5 | 1304.7 | 1303.7 | 1302.0 | 1299.3 | 1296.7 | 1293.9 | 1291.3 | 1293.5 |
| 7.5°   | 1295.5 | 1294.6 | 1293.6 | 1292.7 | 1291.8 | 1289.6 | 1286.1 | 1282.6 | 1279.1 | 1275.6 | 1277.1 |
| 10°    | 1284.3 | 1283.2 | 1282.0 | 1280.9 | 1279.8 | 1277.2 | 1273.3 | 1269.2 | 1265.3 | 1261.2 | 1262.1 |
| 12.5°  | 1269.8 | 1268.6 | 1267.2 | 1265.9 | 1264.7 | 1261.7 | 1257.0 | 1252.2 | 1247.5 | 1242.7 | 1243.3 |
| 15°    | 1245.2 | 1243.2 | 1241.1 | 1239.2 | 1237.2 | 1233.4 | 1227.8 | 1222.2 | 1216.6 | 1211.1 | 1210.6 |
| 17.5°  | 1215.3 | 1212.4 | 1209.5 | 1206.6 | 1203.7 | 1198.9 | 1192.2 | 1185.5 | 1178.8 | 1172.1 | 1170.9 |
| 20°    | 1192.0 | 1189.1 | 1186.3 | 1183.4 | 1180.4 | 1175.3 | 1167.6 | 1160.1 | 1152.4 | 1144.9 | 1143.1 |
| 22.5°  | 1166.4 | 1163.1 | 1159.9 | 1156.6 | 1153.4 | 1147.6 | 1139.5 | 1131.4 | 1123.3 | 1115.2 | 1112.6 |
| 25°    | 1125.9 | 1121.8 | 1117.9 | 1113.8 | 1109.8 | 1103.2 | 1094.1 | 1085.0 | 1075.8 | 1066.7 | 1062.9 |
| 27.5°  | 1083.4 | 1078.4 | 1073.3 | 1068.3 | 1063.2 | 1055.8 | 1046.0 | 1036.3 | 1026.5 | 1016.8 | 1012.1 |
| 30°    | 1053.7 | 1048.1 | 1042.5 | 1037.0 | 1031.4 | 1023.4 | 1013.0 | 1002.5 | 991.9  | 981.5  | 975.9  |
| 32.5°  | 1022.4 | 1016.2 | 1009.8 | 1003.5 | 997.3  | 988.7  | 977.9  | 967.0  | 956.2  | 945.4  | 939.0  |
| 35°    | 973.5  | 966.4  | 959.2  | 952.1  | 945.0  | 935.9  | 924.7  | 913.5  | 902.4  | 891.3  | 883.7  |
| 37.5°  | 921.1  | 913.8  | 906.4  | 899.1  | 891.7  | 881.9  | 869.6  | 857.2  | 844.9  | 832.5  | 824.1  |
| 40°    | 884.3  | 876.9  | 869.6  | 862.2  | 854.9  | 844.8  | 832.1  | 819.4  | 806.7  | 794.0  | 784.7  |
| 42.5°  | 848.9  | 841.2  | 833.6  | 825.9  | 818.1  | 807.7  | 794.5  | 781.2  | 768.0  | 754.7  | 745.2  |
| 45°    | 794.0  | 785.8  | 777.5  | 769.3  | 761.0  | 750.3  | 736.9  | 723.5  | 710.1  | 696.8  | 685.9  |
| 47.5°  | 737.3  | 728.8  | 720.3  | 711.7  | 703.2  | 692.0  | 678.2  | 664.2  | 650.4  | 636.4  | 625.1  |
| 50°    | 698.8  | 690.1  | 681.4  | 672.7  | 664.0  | 652.5  | 638.3  | 624.1  | 609.7  | 595.5  | 584.4  |
| 52.5°  | 659.5  | 651.0  | 642.4  | 634.0  | 625.5  | 613.9  | 599.3  | 584.7  | 570.0  | 555.4  | 544.1  |
| 55°    | 601.5  | 592.6  | 583.7  | 574.8  | 565.9  | 554.2  | 539.7  | 525.2  | 510.8  | 496.2  | 484.7  |
| 57.5°  | 544.2  | 534.9  | 525.7  | 516.4  | 507.1  | 495.3  | 481.1  | 466.8  | 452.6  | 438.3  | 426.6  |
| 60°    | 503.3  | 494.4  | 485.5  | 476.5  | 467.6  | 456.1  | 441.8  | 427.5  | 413.3  | 399.0  | 387.4  |
| 62.5°  | 466.4  | 457.1  | 447.9  | 438.6  | 429.3  | 417.4  | 402.7  | 388.1  | 373.5  | 358.9  | 348.2  |
| 65°    | 409.1  | 399.4  | 389.8  | 380.3  | 370.7  | 358.8  | 344.5  | 330.3  | 316.0  | 301.8  | 292.2  |
| 67.5°  | 349.5  | 340.4  | 331.1  | 322.0  | 312.7  | 301.6  | 288.3  | 275.1  | 261.8  | 248.6  | 240.3  |
| 70°    | 311.8  | 302.5  | 293.0  | 283.7  | 274.4  | 263.3  | 250.6  | 237.9  | 225.3  | 212.5  | 205.2  |
| 72.5°  | 271.7  | 263.3  | 254.8  | 246.3  | 237.8  | 227.6  | 215.7  | 203.6  | 191.6  | 179.6  | 173.3  |
| 75°    | 217.5  | 209.3  | 201.0  | 192.8  | 184.5  | 175.2  | 164.8  | 154.3  | 143.8  | 133.4  | 128.2  |
| 77.5°  | 162.6  | 155.6  | 148.6  | 141.7  | 134.6  | 126.9  | 118.5  | 110.0  | 101.5  | 93.0   | 90.0   |
| 80°    | 127.3  | 120.8  | 114.4  | 107.9  | 101.5  | 94.9   | 88.2   | 81.5   | 74.8   | 68.1   | 67.5   |
| 82.5°  | 96.9   | 91.0   | 85.0   | 79.1   | 73.1   | 68.2   | 64.5   | 60.6   | 56.7   | 53.0   | 52.4   |
| 85°    | 54.1   | 49.7   | 45.2   | 40.8   | 36.3   | 33.7   | 33.1   | 32.4   | 31.8   | 31.1   | 30.6   |
| 87.5°  | 18.7   | 17.3   | 16.1   | 14.9   | 13.6   | 12.9   | 12.9   | 12.8   | 12.7   | 12.7   | 12.6   |
| 90°    | 1.0    | 1.8    | 2.6    | 3.5    | 4.2    | 5.0    | 5.6    | 6.1    | 6.7    | 7.4    | 7.7    |
| 92.5°  | 4.2    | 4.2    | 4.2    | 4.3    | 4.3    | 4.7    | 5.3    | 5.8    | 6.5    | 7.1    | 7.5    |
| 95°    | 18.3   | 15.8   | 13.3   | 10.7   | 8.3    | 7.1    | 7.1    | 7.2    | 7.3    | 7.4    | 7.7    |
| 97.5°  | 38.9   | 40.4   | 42.0   | 43.6   | 45.1   | 41.8   | 33.6   | 25.4   | 17.1   | 8.8    | 8.9    |
| 100°   | 54.7   | 56.0   | 57.3   | 58.6   | 59.9   | 55.5   | 45.3   | 35.1   | 24.9   | 14.7   | 13.4   |
| 102.5° | 72.2   | 73.2   | 74.2   | 75.1   | 76.2   | 76.0   | 74.6   | 73.3   | 71.9   | 70.6   | 57.0   |
| 105°   | 100.3  | 100.7  | 101.1  | 101.6  | 102.1  | 102.5  | 102.8  | 103.2  | 103.6  | 104.0  | 104.6  |
| 107.5° | 126.3  | 126.5  | 126.8  | 127.0  | 127.2  | 127.5  | 128.1  | 128.6  | 129.0  | 129.6  | 129.9  |
| 110°   | 143.9  | 144.1  | 144.3  | 144.6  | 144.8  | 145.2  | 145.5  | 146.0  | 146.5  | 146.9  | 147.0  |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 5°    | 10°   | 15°   | 20°   | 25°   | 30°   | 35°   | 40°   | 45°   | 50°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 161.0 | 161.4 | 161.7 | 162.1 | 162.6 | 162.9 | 163.1 | 163.2 | 163.4 | 163.7 | 163.6 |
| 115°   | 187.2 | 187.5 | 187.7 | 187.8 | 188.1 | 188.1 | 188.1 | 188.0 | 187.9 | 187.8 | 188.0 |
| 117.5° | 210.8 | 211.1 | 211.4 | 211.8 | 212.1 | 212.3 | 212.4 | 212.6 | 212.7 | 212.9 | 212.9 |
| 120°   | 226.9 | 227.2 | 227.4 | 227.7 | 228.0 | 228.1 | 228.1 | 228.0 | 227.9 | 227.8 | 228.0 |
| 122.5° | 241.8 | 242.0 | 242.1 | 242.3 | 242.5 | 242.6 | 242.7 | 242.8 | 242.9 | 243.1 | 243.1 |
| 125°   | 263.2 | 263.4 | 263.7 | 264.0 | 264.4 | 264.4 | 264.3 | 264.1 | 264.0 | 263.8 | 264.0 |
| 127.5° | 283.4 | 283.5 | 283.5 | 283.6 | 283.7 | 283.9 | 284.3 | 284.6 | 284.9 | 285.3 | 285.2 |
| 130°   | 296.4 | 296.5 | 296.6 | 296.7 | 296.8 | 296.9 | 297.1 | 297.4 | 297.6 | 297.8 | 297.8 |
| 132.5° | 308.5 | 308.6 | 308.7 | 308.9 | 309.0 | 309.2 | 309.4 | 309.7 | 310.0 | 310.3 | 310.4 |
| 135°   | 326.4 | 326.4 | 326.3 | 326.2 | 326.1 | 326.2 | 326.6 | 326.9 | 327.2 | 327.4 | 327.6 |
| 137.5° | 342.3 | 342.4 | 342.4 | 342.4 | 342.5 | 342.7 | 343.0 | 343.3 | 343.7 | 343.9 | 344.1 |
| 140°   | 352.8 | 352.9 | 353.1 | 353.2 | 353.4 | 353.5 | 353.6 | 353.8 | 353.9 | 354.1 | 354.3 |
| 142.5° | 362.1 | 362.3 | 362.6 | 362.9 | 363.2 | 363.4 | 363.4 | 363.5 | 363.6 | 363.7 | 363.8 |
| 145°   | 376.5 | 376.6 | 376.8 | 377.1 | 377.3 | 377.4 | 377.4 | 377.4 | 377.4 | 377.4 | 377.5 |
| 147.5° | 387.8 | 388.2 | 388.6 | 389.1 | 389.5 | 389.6 | 389.6 | 389.5 | 389.4 | 389.4 | 389.4 |
| 150°   | 396.1 | 396.3 | 396.6 | 397.0 | 397.3 | 397.4 | 397.3 | 397.2 | 397.1 | 397.1 | 397.1 |
| 152.5° | 403.0 | 403.2 | 403.5 | 403.7 | 404.0 | 404.0 | 403.9 | 403.7 | 403.6 | 403.5 | 403.6 |
| 155°   | 412.7 | 412.8 | 412.8 | 412.9 | 413.0 | 412.9 | 412.7 | 412.5 | 412.3 | 412.1 | 412.4 |
| 157.5° | 420.9 | 420.8 | 420.8 | 420.8 | 420.8 | 420.6 | 420.4 | 420.1 | 419.8 | 419.6 | 420.0 |
| 160°   | 425.7 | 425.5 | 425.3 | 425.1 | 424.8 | 424.7 | 424.6 | 424.5 | 424.4 | 424.3 | 424.8 |
| 162.5° | 430.0 | 429.7 | 429.4 | 429.1 | 428.9 | 428.7 | 428.6 | 428.5 | 428.5 | 428.4 | 428.9 |
| 165°   | 435.4 | 435.0 | 434.6 | 434.2 | 433.9 | 433.7 | 433.7 | 433.7 | 433.7 | 433.7 | 434.3 |
| 167.5° | 439.6 | 439.2 | 438.8 | 438.5 | 438.1 | 437.9 | 437.8 | 437.8 | 437.7 | 437.7 | 438.4 |
| 170°   | 442.1 | 441.6 | 441.1 | 440.7 | 440.3 | 440.1 | 440.2 | 440.3 | 440.3 | 440.4 | 440.9 |
| 172.5° | 443.7 | 443.2 | 442.7 | 442.3 | 441.9 | 441.7 | 441.8 | 441.9 | 441.9 | 442.0 | 442.5 |
| 175°   | 445.4 | 444.9 | 444.5 | 444.0 | 443.6 | 443.4 | 443.5 | 443.6 | 443.7 | 443.7 | 444.4 |
| 177.5° | 446.2 | 445.7 | 445.4 | 444.9 | 444.5 | 444.3 | 444.5 | 444.6 | 444.7 | 444.8 | 445.4 |
| 180°   | 445.4 | 445.4 | 445.4 | 445.4 | 445.4 | 445.4 | 445.4 | 445.4 | 445.4 | 445.4 | 445.4 |



TEST NUMBER: P332928-830

CATALOG NUMBER: SA4XXRDIP-C795D365U830-4F0-1E-UDD-F

**CANDELA DISTRIBUTION (continued):**

|        | 55°    | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1309.4 | 1309.4 | 1309.4 | 1309.4 | 1309.4 | 1309.4 | 1309.4 | 1309.4 |
| 2.5°   | 1304.5 | 1306.4 | 1308.3 | 1309.3 | 1309.1 | 1308.9 | 1308.7 | 1308.5 |
| 5°     | 1295.7 | 1298.0 | 1300.2 | 1301.1 | 1300.6 | 1300.2 | 1299.8 | 1299.3 |
| 7.5°   | 1278.5 | 1280.0 | 1281.4 | 1281.7 | 1281.0 | 1280.3 | 1279.6 | 1278.8 |
| 10°    | 1263.0 | 1263.9 | 1264.8 | 1264.8 | 1263.9 | 1263.0 | 1262.1 | 1261.2 |
| 12.5°  | 1243.9 | 1244.3 | 1244.9 | 1244.5 | 1243.3 | 1242.1 | 1240.8 | 1239.5 |
| 15°    | 1210.2 | 1209.8 | 1209.3 | 1208.3 | 1206.7 | 1205.1 | 1203.6 | 1202.0 |
| 17.5°  | 1169.7 | 1168.5 | 1167.2 | 1165.4 | 1163.0 | 1160.6 | 1158.3 | 1155.9 |
| 20°    | 1141.3 | 1139.5 | 1137.7 | 1135.5 | 1132.6 | 1129.6 | 1126.7 | 1123.9 |
| 22.5°  | 1109.9 | 1107.2 | 1104.6 | 1102.0 | 1099.7 | 1097.3 | 1095.0 | 1092.6 |
| 25°    | 1059.1 | 1055.4 | 1051.6 | 1048.6 | 1046.3 | 1044.1 | 1041.9 | 1039.6 |
| 27.5°  | 1007.4 | 1002.8 | 998.1  | 994.1  | 990.9  | 987.7  | 984.5  | 981.3  |
| 30°    | 970.3  | 964.8  | 959.2  | 954.6  | 951.1  | 947.5  | 944.0  | 940.4  |
| 32.5°  | 932.5  | 926.0  | 919.5  | 914.6  | 911.3  | 907.9  | 904.5  | 901.1  |
| 35°    | 876.1  | 868.6  | 861.0  | 855.2  | 851.2  | 847.2  | 843.1  | 839.1  |
| 37.5°  | 815.6  | 807.1  | 798.6  | 792.4  | 788.4  | 784.4  | 780.4  | 776.4  |
| 40°    | 775.3  | 765.9  | 756.6  | 749.9  | 745.9  | 741.9  | 737.9  | 733.9  |
| 42.5°  | 735.7  | 726.1  | 716.6  | 709.7  | 705.5  | 701.3  | 697.2  | 693.0  |
| 45°    | 675.0  | 664.0  | 653.1  | 645.6  | 641.6  | 637.6  | 633.6  | 629.6  |
| 47.5°  | 613.8  | 602.5  | 591.2  | 583.2  | 578.9  | 574.5  | 570.0  | 565.6  |
| 50°    | 573.3  | 562.1  | 550.9  | 543.3  | 539.0  | 534.8  | 530.6  | 526.3  |
| 52.5°  | 532.8  | 521.5  | 510.1  | 502.3  | 497.9  | 493.4  | 489.1  | 484.7  |
| 55°    | 473.1  | 461.5  | 450.0  | 442.1  | 437.8  | 433.6  | 429.3  | 425.1  |
| 57.5°  | 414.8  | 403.0  | 391.2  | 383.8  | 380.6  | 377.4  | 374.2  | 371.0  |
| 60°    | 375.9  | 364.3  | 352.7  | 345.1  | 341.6  | 338.0  | 334.4  | 330.8  |
| 62.5°  | 337.5  | 326.9  | 316.1  | 309.3  | 306.5  | 303.7  | 300.8  | 297.9  |
| 65°    | 282.6  | 273.1  | 263.4  | 257.3  | 254.7  | 251.9  | 249.3  | 246.7  |
| 67.5°  | 232.1  | 223.9  | 215.7  | 210.1  | 207.2  | 204.2  | 201.2  | 198.3  |
| 70°    | 197.8  | 190.5  | 183.1  | 178.3  | 176.2  | 173.9  | 171.6  | 169.5  |
| 72.5°  | 167.1  | 160.8  | 154.5  | 150.3  | 148.4  | 146.3  | 144.2  | 142.1  |
| 75°    | 123.1  | 118.0  | 112.8  | 109.6  | 108.3  | 107.0  | 105.6  | 104.2  |
| 77.5°  | 87.1   | 84.1   | 81.1   | 79.4   | 79.0   | 78.6   | 78.2   | 77.8   |
| 80°    | 66.8   | 66.2   | 65.5   | 65.0   | 64.8   | 64.6   | 64.4   | 64.2   |
| 82.5°  | 51.9   | 51.5   | 51.0   | 50.6   | 50.4   | 50.1   | 50.0   | 49.8   |
| 85°    | 30.2   | 29.8   | 29.3   | 29.0   | 29.0   | 29.0   | 29.0   | 29.0   |
| 87.5°  | 12.5   | 12.4   | 12.3   | 12.4   | 12.6   | 12.8   | 13.0   | 13.2   |
| 90°    | 8.2    | 8.7    | 9.1    | 9.4    | 9.5    | 9.7    | 9.8    | 10.0   |
| 92.5°  | 7.9    | 8.4    | 8.9    | 9.0    | 9.1    | 9.1    | 9.1    | 9.2    |
| 95°    | 8.2    | 8.7    | 9.1    | 9.3    | 9.4    | 9.5    | 9.6    | 9.6    |
| 97.5°  | 8.9    | 9.0    | 9.0    | 9.0    | 9.1    | 9.1    | 9.2    | 9.3    |
| 100°   | 12.2   | 10.8   | 9.6    | 9.0    | 9.1    | 9.1    | 9.2    | 9.3    |
| 102.5° | 43.5   | 29.9   | 16.3   | 9.5    | 9.5    | 9.5    | 9.6    | 9.6    |
| 105°   | 105.3  | 105.9  | 106.6  | 105.6  | 102.9  | 100.3  | 97.6   | 94.9   |
| 107.5° | 130.3  | 130.5  | 130.9  | 131.2  | 131.5  | 131.8  | 132.1  | 132.3  |
| 110°   | 147.2  | 147.3  | 147.5  | 147.7  | 147.9  | 148.2  | 148.4  | 148.5  |





TEST NUMBER: P332928-830

CATALOG NUMBER: SA4XXRDIP-C795D365U830-4F0-1E-UDD-F

**CANDELA DISTRIBUTION (continued):**

|        | 55°   | 60°   | 65°   | 70°   | 75°   | 80°   | 85°   | 90°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 163.6 | 163.6 | 163.5 | 163.7 | 164.0 | 164.3 | 164.6 | 164.9 |
| 115°   | 188.1 | 188.3 | 188.5 | 188.5 | 188.5 | 188.5 | 188.5 | 188.5 |
| 117.5° | 212.8 | 212.8 | 212.8 | 212.7 | 212.7 | 212.7 | 212.7 | 212.6 |
| 120°   | 228.1 | 228.3 | 228.5 | 228.5 | 228.3 | 228.1 | 228.0 | 227.8 |
| 122.5° | 243.2 | 243.3 | 243.4 | 243.4 | 243.2 | 243.1 | 242.9 | 242.8 |
| 125°   | 264.3 | 264.5 | 264.7 | 264.9 | 264.9 | 265.0 | 265.0 | 265.1 |
| 127.5° | 285.2 | 285.1 | 285.1 | 285.0 | 285.0 | 284.9 | 284.8 | 284.8 |
| 130°   | 297.9 | 298.0 | 298.1 | 298.1 | 298.1 | 298.1 | 298.1 | 298.1 |
| 132.5° | 310.5 | 310.6 | 310.7 | 310.7 | 310.6 | 310.5 | 310.5 | 310.4 |
| 135°   | 327.7 | 327.9 | 328.0 | 328.2 | 328.3 | 328.5 | 328.7 | 328.8 |
| 137.5° | 344.3 | 344.5 | 344.6 | 344.7 | 344.6 | 344.6 | 344.5 | 344.5 |
| 140°   | 354.5 | 354.8 | 355.0 | 355.2 | 355.2 | 355.2 | 355.3 | 355.4 |
| 142.5° | 364.0 | 364.2 | 364.3 | 364.4 | 364.5 | 364.5 | 364.5 | 364.5 |
| 145°   | 377.6 | 377.7 | 377.7 | 377.8 | 378.0 | 378.1 | 378.2 | 378.4 |
| 147.5° | 389.5 | 389.6 | 389.6 | 389.6 | 389.7 | 389.7 | 389.8 | 389.9 |
| 150°   | 397.1 | 397.1 | 397.1 | 397.1 | 397.2 | 397.3 | 397.3 | 397.4 |
| 152.5° | 403.7 | 403.8 | 404.0 | 404.0 | 403.9 | 403.9 | 403.9 | 403.8 |
| 155°   | 412.6 | 412.9 | 413.2 | 413.3 | 413.0 | 412.8 | 412.6 | 412.4 |
| 157.5° | 420.4 | 420.8 | 421.1 | 421.1 | 420.8 | 420.4 | 420.0 | 419.6 |
| 160°   | 425.3 | 425.7 | 426.1 | 426.1 | 425.7 | 425.3 | 424.8 | 424.3 |
| 162.5° | 429.2 | 429.7 | 430.2 | 430.1 | 429.6 | 429.1 | 428.6 | 428.1 |
| 165°   | 434.9 | 435.5 | 436.1 | 436.0 | 435.4 | 434.7 | 434.0 | 433.4 |
| 167.5° | 439.0 | 439.7 | 440.3 | 440.3 | 439.5 | 438.8 | 438.0 | 437.3 |
| 170°   | 441.6 | 442.1 | 442.7 | 442.6 | 442.0 | 441.2 | 440.5 | 439.7 |
| 172.5° | 443.2 | 443.7 | 444.3 | 444.2 | 443.5 | 442.6 | 441.9 | 441.0 |
| 175°   | 445.1 | 445.7 | 446.4 | 446.3 | 445.4 | 444.5 | 443.6 | 442.7 |
| 177.5° | 445.8 | 446.3 | 446.8 | 446.6 | 445.9 | 445.2 | 444.5 | 443.7 |
| 180°   | 445.4 | 445.4 | 445.4 | 445.4 | 445.4 | 445.4 | 445.4 | 445.4 |

(END OF REPORT)