

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: P332930-935

Luminaire Tested: **SA4XXRDIP-C795D365U935-4F0-1E-UDD-F4**

Issue Date: 10/7/2019

**Test Information**

Test Method: LM-79-08  
Report Number: P332930-935  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-18,  
Test Lab: INNOVATION CENTER  
Issue Date: 10/7/2019  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: SA4XXRDIP-C795D365U935-4F0-1E-UDD-F4  
Description: DEFINE 4 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 795 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER, REGRESSED  
HOUSING  
UPLIGHT 365 LUMENS PER FOOT, BATWING OPTIC  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

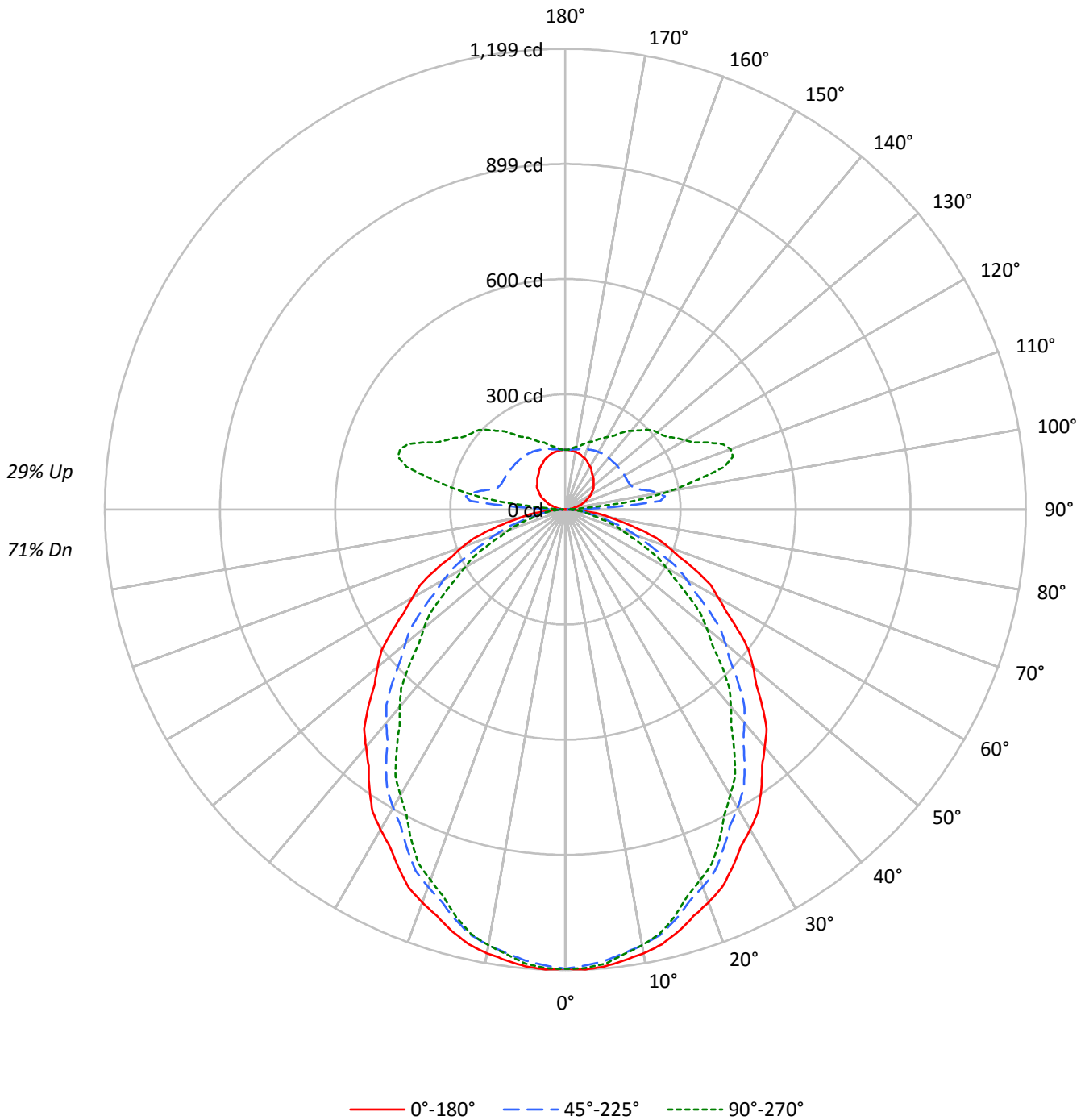
Lumens per Lamp: N/A  
Luminaire Lumens: 3890.7 lumens  
Efficiency: N/A  
Efficacy: 111.2 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.09 / 1.24  
Luminous Opening: Rectangular (W 0.33' x L: 4' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 35  
Input Voltage (V): 120  
Input Current (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: P332930-935  
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### Luminous Intensity Polar Plot





TEST NUMBER: P332930-935

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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 | 50 | 30 | 10 | 0  |   |
| RCR |     |     |     |     |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |   |
| 0   | 112 | 112 | 112 | 112 | 106 | 106 | 106 | 106 | 95 | 95 | 95 | 85 | 85 | 85 | 75 | 75 | 75 | 75 | 75 | 75 | 71 |   |
| 1   | 103 | 99  | 95  | 91  | 97  | 94  | 90  | 87  | 84 | 81 | 79 | 75 | 73 | 72 | 67 | 66 | 65 | 65 | 65 | 65 | 61 |   |
| 2   | 94  | 87  | 80  | 75  | 89  | 82  | 77  | 72  | 74 | 70 | 66 | 67 | 63 | 60 | 60 | 57 | 55 | 55 | 55 | 55 | 51 |   |
| 3   | 86  | 76  | 69  | 63  | 81  | 73  | 66  | 61  | 66 | 60 | 56 | 59 | 55 | 52 | 53 | 50 | 47 | 47 | 47 | 47 | 44 |   |
| 4   | 79  | 68  | 60  | 54  | 75  | 65  | 58  | 52  | 59 | 53 | 48 | 53 | 48 | 45 | 48 | 44 | 41 | 41 | 41 | 41 | 38 |   |
| 5   | 73  | 61  | 53  | 47  | 69  | 58  | 51  | 45  | 53 | 47 | 42 | 48 | 43 | 39 | 43 | 39 | 36 | 36 | 36 | 36 | 33 |   |
| 6   | 67  | 55  | 47  | 41  | 63  | 52  | 45  | 39  | 48 | 41 | 37 | 43 | 38 | 34 | 39 | 35 | 32 | 32 | 32 | 32 | 29 |   |
| 7   | 62  | 50  | 42  | 36  | 59  | 48  | 40  | 35  | 44 | 37 | 33 | 40 | 34 | 31 | 36 | 32 | 28 | 28 | 28 | 28 | 26 |   |
| 8   | 58  | 45  | 37  | 32  | 55  | 43  | 36  | 31  | 40 | 34 | 29 | 36 | 31 | 27 | 33 | 29 | 26 | 26 | 26 | 26 | 23 |   |
| 9   | 54  | 42  | 34  | 29  | 51  | 40  | 33  | 28  | 37 | 31 | 26 | 34 | 28 | 25 | 31 | 26 | 23 | 23 | 23 | 23 | 21 |   |
| 10  | 51  | 38  | 31  | 26  | 48  | 37  | 30  | 25  | 34 | 28 | 24 | 31 | 26 | 23 | 29 | 24 | 21 | 21 | 21 | 21 | 19 |   |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 9656 | 9656 | 9656 |
| 5°  | 9678 | 9559 | 9618 |
| 10° | 9617 | 9444 | 9444 |
| 15° | 9507 | 9246 | 9177 |
| 20° | 9355 | 8985 | 8820 |
| 25° | 9161 | 8679 | 8459 |
| 30° | 8972 | 8358 | 8007 |
| 35° | 8763 | 8024 | 7554 |
| 40° | 8513 | 7644 | 7065 |
| 45° | 8281 | 7267 | 6566 |
| 50° | 8017 | 6832 | 6038 |
| 55° | 7734 | 6380 | 5465 |
| 60° | 7424 | 5885 | 4879 |
| 65° | 7138 | 5266 | 4304 |
| 70° | 6722 | 4584 | 3654 |
| 75° | 6198 | 3799 | 2969 |
| 80° | 5407 | 2896 | 2724 |
| 85° | 4576 | 2631 | 2455 |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 112.4  | 2.9       |
| 10°-20°   | 313.3  | 8.1       |
| 20°-30°   | 452.4  | 11.6      |
| 30°-40°   | 512.8  | 13.2      |
| 40°-50°   | 495.2  | 12.7      |
| 50°-60°   | 411.8  | 10.6      |
| 60°-70°   | 284.4  | 7.3       |
| 70°-80°   | 144.1  | 3.7       |
| 80°-90°   | 37.8   | 1.0       |
| 90°-100°  | 111.9  | 2.9       |
| 100°-110° | 232.8  | 6.0       |
| 110°-120° | 208.5  | 5.4       |
| 120°-130° | 175.4  | 4.5       |
| 130°-140° | 146.3  | 3.8       |
| 140°-150° | 111.7  | 2.9       |
| 150°-160° | 78.5   | 2.0       |
| 160°-170° | 46.2   | 1.2       |
| 170°-180° | 15.0   | 0.4       |
| 0°-30°    | 878.1  | 22.6      |
| 0°-40°    | 1390.9 | 35.7      |
| 0°-60°    | 2297.9 | 59.1      |
| 0°-90°    | 2764.2 | 71.0      |
| 90°-120°  | 553.3  | 14.2      |
| 90°-150°  | 986.7  | 25.4      |
| 90°-180°  | 1126.0 | 28.9      |
| 0°-180°   | 3890.7 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 1196 | 1196  | 1196 | 1196  | 1196 |      |
| 5°   | 1194 | 1190  | 1180 | 1188  | 1187 | 113  |
| 15°  | 1138 | 1128  | 1106 | 1104  | 1098 | 320  |
| 25°  | 1028 | 1011  | 974  | 959   | 950  | 474  |
| 35°  | 889  | 859   | 814  | 784   | 766  | 555  |
| 45°  | 725  | 690   | 636  | 593   | 575  | 559  |
| 55°  | 550  | 512   | 453  | 407   | 388  | 491  |
| 65°  | 374  | 333   | 276  | 238   | 225  | 369  |
| 75°  | 199  | 164   | 122  | 102   | 95   | 210  |
| 85°  | 49   | 32    | 28   | 27    | 26   | 56   |
| 90°  | 0    | 2     | 6    | 6     | 6    | 3    |
| 95°  | 10   | 32    | 248  | 123   | 74   | 11   |
| 105° | 36   | 52    | 200  | 430   | 428  | 38   |
| 115° | 63   | 79    | 178  | 342   | 411  | 62   |
| 125° | 87   | 104   | 177  | 291   | 328  | 78   |
| 135° | 104  | 124   | 176  | 258   | 293  | 80   |
| 145° | 120  | 137   | 175  | 218   | 239  | 75   |
| 155° | 136  | 147   | 170  | 192   | 200  | 63   |
| 165° | 148  | 153   | 163  | 172   | 175  | 42   |
| 175° | 154  | 155   | 156  | 158   | 158  | 15   |
| 180° | 155  | 155   | 155  | 155   | 155  |      |



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**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1196.1 | 1196.1 | 1196.1 | 1196.1 | 1196.1 | 1196.1 | 1196.1 | 1196.1 | 1196.1 | 1196.1 | 1196.1 |
| 2.5°   | 1199.0 | 1198.3 | 1197.7 | 1197.0 | 1196.4 | 1195.2 | 1193.3 | 1191.6 | 1189.8 | 1188.0 | 1189.8 |
| 5°     | 1194.2 | 1193.4 | 1192.6 | 1191.8 | 1190.9 | 1189.4 | 1186.9 | 1184.5 | 1182.0 | 1179.6 | 1181.6 |
| 7.5°   | 1183.4 | 1182.6 | 1181.7 | 1180.9 | 1180.0 | 1178.0 | 1174.8 | 1171.6 | 1168.5 | 1165.3 | 1166.6 |
| 10°    | 1173.2 | 1172.2 | 1171.1 | 1170.1 | 1169.1 | 1166.7 | 1163.1 | 1159.4 | 1155.8 | 1152.1 | 1152.9 |
| 12.5°  | 1159.9 | 1158.8 | 1157.6 | 1156.4 | 1155.3 | 1152.5 | 1148.2 | 1143.8 | 1139.5 | 1135.2 | 1135.7 |
| 15°    | 1137.5 | 1135.7 | 1133.8 | 1132.0 | 1130.1 | 1126.7 | 1121.5 | 1116.5 | 1111.4 | 1106.3 | 1105.9 |
| 17.5°  | 1110.2 | 1107.5 | 1104.8 | 1102.3 | 1099.6 | 1095.2 | 1089.1 | 1083.0 | 1076.9 | 1070.7 | 1069.6 |
| 20°    | 1088.9 | 1086.2 | 1083.7 | 1081.0 | 1078.3 | 1073.6 | 1066.6 | 1059.7 | 1052.7 | 1045.9 | 1044.2 |
| 22.5°  | 1065.5 | 1062.5 | 1059.5 | 1056.5 | 1053.6 | 1048.4 | 1040.9 | 1033.5 | 1026.1 | 1018.7 | 1016.3 |
| 25°    | 1028.5 | 1024.8 | 1021.1 | 1017.4 | 1013.8 | 1007.8 | 999.4  | 991.1  | 982.7  | 974.4  | 970.9  |
| 27.5°  | 989.6  | 985.1  | 980.4  | 975.9  | 971.2  | 964.5  | 955.5  | 946.7  | 937.7  | 928.8  | 924.5  |
| 30°    | 962.5  | 957.4  | 952.4  | 947.3  | 942.2  | 934.9  | 925.3  | 915.8  | 906.1  | 896.6  | 891.5  |
| 32.5°  | 933.9  | 928.2  | 922.5  | 916.7  | 911.0  | 903.2  | 893.3  | 883.4  | 873.5  | 863.6  | 857.7  |
| 35°    | 889.2  | 882.8  | 876.2  | 869.7  | 863.2  | 854.9  | 844.7  | 834.5  | 824.3  | 814.2  | 807.3  |
| 37.5°  | 841.5  | 834.7  | 828.0  | 821.3  | 814.6  | 805.6  | 794.4  | 783.1  | 771.8  | 760.5  | 752.8  |
| 40°    | 807.8  | 801.1  | 794.4  | 787.6  | 780.9  | 771.7  | 760.1  | 748.6  | 736.9  | 725.3  | 716.8  |
| 42.5°  | 775.5  | 768.4  | 761.5  | 754.4  | 747.3  | 737.8  | 725.7  | 713.6  | 701.5  | 689.4  | 680.7  |
| 45°    | 725.3  | 717.8  | 710.2  | 702.7  | 695.2  | 685.4  | 673.1  | 660.9  | 648.7  | 636.5  | 626.5  |
| 47.5°  | 673.5  | 665.7  | 658.0  | 650.1  | 642.4  | 632.1  | 619.5  | 606.7  | 594.1  | 581.3  | 571.0  |
| 50°    | 638.3  | 630.4  | 622.4  | 614.5  | 606.6  | 596.1  | 583.1  | 570.1  | 557.0  | 544.0  | 533.8  |
| 52.5°  | 602.4  | 594.7  | 586.9  | 579.1  | 571.4  | 560.8  | 547.4  | 534.1  | 520.7  | 507.4  | 497.1  |
| 55°    | 549.5  | 541.3  | 533.2  | 525.0  | 516.9  | 506.3  | 493.0  | 479.7  | 466.6  | 453.3  | 442.7  |
| 57.5°  | 497.1  | 488.6  | 480.2  | 471.7  | 463.2  | 452.5  | 439.5  | 426.5  | 413.5  | 400.4  | 389.7  |
| 60°    | 459.8  | 451.6  | 443.5  | 435.3  | 427.1  | 416.6  | 403.6  | 390.5  | 377.5  | 364.5  | 353.9  |
| 62.5°  | 426.0  | 417.6  | 409.1  | 400.6  | 392.2  | 381.3  | 367.9  | 354.6  | 341.2  | 327.9  | 318.1  |
| 65°    | 373.7  | 364.9  | 356.1  | 347.4  | 338.6  | 327.8  | 314.7  | 301.7  | 288.7  | 275.7  | 266.9  |
| 67.5°  | 319.3  | 310.9  | 302.5  | 294.1  | 285.7  | 275.5  | 263.4  | 251.3  | 239.2  | 227.1  | 219.6  |
| 70°    | 284.8  | 276.3  | 267.7  | 259.2  | 250.6  | 240.6  | 228.9  | 217.3  | 205.8  | 194.2  | 187.4  |
| 72.5°  | 248.2  | 240.5  | 232.7  | 225.0  | 217.2  | 207.9  | 197.0  | 186.0  | 175.0  | 164.1  | 158.3  |
| 75°    | 198.7  | 191.2  | 183.7  | 176.2  | 168.6  | 160.1  | 150.5  | 140.9  | 131.4  | 121.8  | 117.1  |
| 77.5°  | 148.5  | 142.2  | 135.8  | 129.4  | 123.0  | 115.9  | 108.2  | 100.5  | 92.7   | 85.0   | 82.2   |
| 80°    | 116.3  | 110.4  | 104.5  | 98.6   | 92.7   | 86.7   | 80.6   | 74.5   | 68.4   | 62.3   | 61.6   |
| 82.5°  | 88.5   | 83.1   | 77.7   | 72.2   | 66.8   | 62.3   | 58.9   | 55.4   | 51.8   | 48.4   | 47.9   |
| 85°    | 49.4   | 45.4   | 41.3   | 37.3   | 33.1   | 30.8   | 30.2   | 29.6   | 29.0   | 28.4   | 28.0   |
| 87.5°  | 16.9   | 15.8   | 14.6   | 13.3   | 12.1   | 11.4   | 11.6   | 11.5   | 11.4   | 11.4   | 11.1   |
| 90°    | 0.3    | 0.9    | 1.8    | 2.2    | 2.4    | 2.4    | 4.2    | 4.2    | 4.9    | 5.5    | 5.2    |
| 92.5°  | 3.4    | 5.1    | 7.9    | 11.6   | 16.1   | 22.4   | 37.9   | 61.5   | 84.5   | 96.5   | 80.4   |
| 95°    | 10.1   | 10.9   | 14.0   | 18.0   | 25.2   | 38.1   | 64.5   | 114.4  | 187.2  | 248.0  | 255.0  |
| 97.5°  | 18.0   | 18.0   | 20.7   | 24.3   | 30.6   | 41.2   | 61.6   | 102.9  | 175.1  | 261.2  | 320.4  |
| 100°   | 23.2   | 23.2   | 25.2   | 28.9   | 34.7   | 44.4   | 62.4   | 96.8   | 158.9  | 244.7  | 322.5  |
| 102.5° | 28.0   | 28.5   | 30.4   | 33.8   | 39.3   | 48.6   | 64.8   | 95.1   | 147.9  | 223.9  | 304.3  |
| 105°   | 35.6   | 36.5   | 38.1   | 41.7   | 47.2   | 56.0   | 70.6   | 95.8   | 138.4  | 199.6  | 271.1  |
| 107.5° | 44.0   | 44.6   | 46.1   | 50.0   | 55.3   | 64.0   | 77.3   | 100.4  | 136.7  | 186.0  | 244.4  |
| 110°   | 49.6   | 50.2   | 51.7   | 55.4   | 60.9   | 69.1   | 82.5   | 103.8  | 137.2  | 181.3  | 231.0  |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 5°    | 10°   | 15°   | 20°   | 25°   | 30°   | 35°   | 40°   | 45°   | 50°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 54.9  | 55.5  | 57.3  | 60.7  | 66.2  | 74.4  | 87.3  | 107.5 | 138.7 | 179.2 | 223.4 |
| 115°   | 62.7  | 63.6  | 65.7  | 68.8  | 74.6  | 82.7  | 95.0  | 113.2 | 141.5 | 178.1 | 216.4 |
| 117.5° | 70.7  | 71.5  | 73.4  | 76.8  | 82.2  | 90.7  | 102.3 | 119.1 | 144.5 | 177.7 | 213.2 |
| 120°   | 76.1  | 76.7  | 78.8  | 82.1  | 87.3  | 95.8  | 107.5 | 123.2 | 146.7 | 177.7 | 211.5 |
| 122.5° | 80.9  | 81.5  | 83.7  | 86.8  | 92.5  | 100.7 | 112.3 | 127.2 | 148.9 | 177.5 | 209.6 |
| 125°   | 87.3  | 88.5  | 90.4  | 93.8  | 99.5  | 108.1 | 119.0 | 132.9 | 152.1 | 177.1 | 206.3 |
| 127.5° | 93.0  | 93.9  | 96.2  | 100.0 | 106.0 | 114.6 | 125.2 | 138.0 | 154.8 | 176.4 | 202.0 |
| 130°   | 96.2  | 97.4  | 99.8  | 104.4 | 110.1 | 119.0 | 129.3 | 141.2 | 156.7 | 176.2 | 199.3 |
| 132.5° | 99.4  | 100.3 | 103.5 | 107.8 | 114.1 | 122.3 | 132.8 | 144.4 | 158.4 | 176.0 | 196.9 |
| 135°   | 103.8 | 105.0 | 108.1 | 113.2 | 119.6 | 127.5 | 137.5 | 148.5 | 161.0 | 175.6 | 193.2 |
| 137.5° | 108.2 | 109.3 | 112.7 | 117.6 | 124.2 | 131.8 | 141.2 | 151.4 | 162.5 | 175.6 | 190.1 |
| 140°   | 111.4 | 112.3 | 115.6 | 120.8 | 127.2 | 134.5 | 143.6 | 153.3 | 163.7 | 175.3 | 188.4 |
| 142.5° | 114.8 | 115.7 | 118.8 | 123.7 | 129.8 | 136.9 | 145.9 | 154.8 | 164.7 | 175.3 | 186.9 |
| 145°   | 119.6 | 120.5 | 123.6 | 127.8 | 133.6 | 140.3 | 148.2 | 156.4 | 165.2 | 174.7 | 184.4 |
| 147.5° | 125.0 | 125.3 | 128.0 | 132.3 | 137.2 | 143.2 | 150.6 | 157.8 | 165.6 | 173.6 | 182.2 |
| 150°   | 128.4 | 128.7 | 131.1 | 134.8 | 139.4 | 145.2 | 151.9 | 158.5 | 165.6 | 172.8 | 180.5 |
| 152.5° | 131.6 | 131.6 | 134.1 | 137.5 | 141.5 | 146.9 | 152.8 | 159.0 | 165.1 | 171.6 | 178.5 |
| 155°   | 136.0 | 136.3 | 138.2 | 141.2 | 144.6 | 149.1 | 154.3 | 159.5 | 164.4 | 169.8 | 175.6 |
| 157.5° | 140.3 | 140.3 | 142.1 | 144.4 | 147.3 | 150.9 | 155.3 | 159.5 | 163.5 | 167.9 | 172.6 |
| 160°   | 143.0 | 143.0 | 144.2 | 146.4 | 148.8 | 152.1 | 155.8 | 159.5 | 162.8 | 166.4 | 170.4 |
| 162.5° | 145.4 | 145.3 | 146.2 | 148.1 | 150.2 | 152.9 | 156.3 | 159.5 | 162.0 | 165.0 | 168.5 |
| 165°   | 148.2 | 148.2 | 148.8 | 150.3 | 151.9 | 153.7 | 156.4 | 158.9 | 160.7 | 162.8 | 165.2 |
| 167.5° | 150.9 | 150.6 | 150.9 | 152.1 | 152.9 | 154.4 | 156.4 | 158.1 | 159.2 | 160.6 | 162.3 |
| 170°   | 152.1 | 151.9 | 152.1 | 153.1 | 153.7 | 154.5 | 156.1 | 157.6 | 158.3 | 159.1 | 160.4 |
| 172.5° | 153.3 | 153.1 | 153.1 | 153.8 | 154.1 | 154.8 | 155.8 | 157.1 | 157.3 | 157.6 | 158.7 |
| 175°   | 154.5 | 154.3 | 154.3 | 154.5 | 154.9 | 154.9 | 155.5 | 156.4 | 156.1 | 156.1 | 156.7 |
| 177.5° | 155.2 | 154.9 | 154.6 | 154.9 | 154.9 | 154.9 | 155.2 | 155.6 | 155.2 | 155.2 | 155.4 |
| 180°   | 154.9 | 154.9 | 154.9 | 154.9 | 154.9 | 154.9 | 154.9 | 154.9 | 154.9 | 154.9 | 154.9 |



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**CANDELA DISTRIBUTION (continued):**

|        | 55°    | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1196.1 | 1196.1 | 1196.1 | 1196.1 | 1196.1 | 1196.1 | 1196.1 | 1196.1 |
| 2.5°   | 1191.6 | 1193.3 | 1195.2 | 1196.0 | 1195.8 | 1195.7 | 1195.5 | 1195.3 |
| 5°     | 1183.6 | 1185.7 | 1187.7 | 1188.5 | 1188.1 | 1187.7 | 1187.3 | 1186.9 |
| 7.5°   | 1167.9 | 1169.2 | 1170.5 | 1170.8 | 1170.2 | 1169.5 | 1168.9 | 1168.2 |
| 10°    | 1153.7 | 1154.5 | 1155.4 | 1155.4 | 1154.5 | 1153.7 | 1152.9 | 1152.1 |
| 12.5°  | 1136.3 | 1136.7 | 1137.2 | 1136.9 | 1135.7 | 1134.6 | 1133.4 | 1132.3 |
| 15°    | 1105.5 | 1105.1 | 1104.7 | 1103.8 | 1102.3 | 1100.9 | 1099.5 | 1098.0 |
| 17.5°  | 1068.5 | 1067.4 | 1066.2 | 1064.5 | 1062.4 | 1060.2 | 1058.1 | 1055.9 |
| 20°    | 1042.6 | 1040.9 | 1039.3 | 1037.2 | 1034.6 | 1031.9 | 1029.2 | 1026.7 |
| 22.5°  | 1013.9 | 1011.4 | 1009.0 | 1006.7 | 1004.5 | 1002.4 | 1000.2 | 998.1  |
| 25°    | 967.5  | 964.1  | 960.6  | 957.9  | 955.8  | 953.8  | 951.7  | 949.7  |
| 27.5°  | 920.2  | 916.0  | 911.7  | 908.1  | 905.2  | 902.2  | 899.3  | 896.4  |
| 30°    | 886.4  | 881.3  | 876.2  | 872.0  | 868.8  | 865.6  | 862.3  | 859.0  |
| 32.5°  | 851.8  | 845.9  | 840.0  | 835.5  | 832.4  | 829.3  | 826.2  | 823.1  |
| 35°    | 800.3  | 793.4  | 786.5  | 781.2  | 777.6  | 773.9  | 770.2  | 766.5  |
| 37.5°  | 745.0  | 737.3  | 729.5  | 723.8  | 720.2  | 716.5  | 712.9  | 709.2  |
| 40°    | 708.3  | 699.6  | 691.1  | 685.0  | 681.4  | 677.7  | 674.1  | 670.4  |
| 42.5°  | 672.0  | 663.3  | 654.6  | 648.3  | 644.5  | 640.7  | 636.9  | 633.0  |
| 45°    | 616.6  | 606.6  | 596.6  | 589.8  | 586.1  | 582.5  | 578.8  | 575.1  |
| 47.5°  | 560.7  | 550.4  | 540.0  | 532.8  | 528.8  | 524.8  | 520.7  | 516.7  |
| 50°    | 523.7  | 513.5  | 503.3  | 496.3  | 492.4  | 488.5  | 484.7  | 480.8  |
| 52.5°  | 486.7  | 476.4  | 466.0  | 458.8  | 454.8  | 450.7  | 446.8  | 442.7  |
| 55°    | 432.1  | 421.5  | 411.0  | 403.8  | 399.9  | 396.1  | 392.2  | 388.3  |
| 57.5°  | 378.9  | 368.2  | 357.4  | 350.6  | 347.7  | 344.7  | 341.8  | 338.9  |
| 60°    | 343.4  | 332.8  | 322.2  | 315.2  | 312.0  | 308.8  | 305.5  | 302.2  |
| 62.5°  | 308.3  | 298.6  | 288.8  | 282.6  | 280.0  | 277.4  | 274.7  | 272.2  |
| 65°    | 258.1  | 249.4  | 240.6  | 235.1  | 232.6  | 230.1  | 227.7  | 225.3  |
| 67.5°  | 212.1  | 204.6  | 197.0  | 191.9  | 189.2  | 186.5  | 183.8  | 181.2  |
| 70°    | 180.7  | 174.0  | 167.3  | 162.9  | 160.9  | 158.9  | 156.8  | 154.8  |
| 72.5°  | 152.7  | 146.9  | 141.1  | 137.3  | 135.5  | 133.6  | 131.7  | 129.8  |
| 75°    | 112.4  | 107.8  | 103.1  | 100.1  | 98.9   | 97.7   | 96.4   | 95.2   |
| 77.5°  | 79.6   | 76.8   | 74.0   | 72.5   | 72.2   | 71.8   | 71.5   | 71.0   |
| 80°    | 61.0   | 60.4   | 59.8   | 59.4   | 59.2   | 59.0   | 58.8   | 58.6   |
| 82.5°  | 47.4   | 47.0   | 46.6   | 46.2   | 46.1   | 45.8   | 45.6   | 45.5   |
| 85°    | 27.6   | 27.2   | 26.8   | 26.5   | 26.5   | 26.5   | 26.5   | 26.5   |
| 87.5°  | 11.0   | 10.9   | 10.8   | 10.8   | 11.0   | 11.3   | 11.4   | 11.5   |
| 90°    | 5.5    | 5.8    | 6.1    | 6.1    | 6.4    | 6.7    | 6.4    | 6.4    |
| 92.5°  | 59.8   | 44.9   | 35.8   | 29.7   | 26.1   | 24.5   | 23.4   | 23.4   |
| 95°    | 225.5  | 178.3  | 137.5  | 108.1  | 93.1   | 83.7   | 78.2   | 74.2   |
| 97.5°  | 333.1  | 315.6  | 285.9  | 254.1  | 232.2  | 214.0  | 204.8  | 198.5  |
| 100°   | 367.0  | 373.1  | 358.2  | 335.6  | 309.2  | 290.6  | 281.5  | 279.1  |
| 102.5° | 365.3  | 395.5  | 399.8  | 390.4  | 374.2  | 360.8  | 351.1  | 349.1  |
| 105°   | 340.8  | 393.5  | 423.6  | 436.1  | 436.7  | 434.2  | 430.0  | 428.2  |
| 107.5° | 306.1  | 362.1  | 404.5  | 431.7  | 446.7  | 453.7  | 456.7  | 457.4  |
| 110°   | 285.2  | 337.8  | 381.9  | 415.3  | 437.0  | 449.8  | 455.2  | 458.0  |





TEST NUMBER: P332930-935

CATALOG NUMBER: SA4XXRDIP-C795D365U935-4F0-1E-UDD-F4

**CANDELA DISTRIBUTION (continued):**

|        | 55°   | 60°   | 65°   | 70°   | 75°   | 80°   | 85°   | 90°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 269.8 | 316.3 | 358.0 | 391.5 | 416.0 | 431.5 | 439.2 | 443.6 |
| 115°   | 254.4 | 291.8 | 327.4 | 356.6 | 380.6 | 398.9 | 408.7 | 411.1 |
| 117.5° | 246.8 | 277.8 | 305.8 | 330.6 | 351.1 | 366.4 | 376.3 | 378.2 |
| 120°   | 243.4 | 271.7 | 296.1 | 317.7 | 335.0 | 348.4 | 356.4 | 359.7 |
| 122.5° | 240.5 | 267.9 | 290.0 | 308.9 | 323.6 | 335.0 | 341.7 | 345.1 |
| 125°   | 235.6 | 261.7 | 282.7 | 299.5 | 311.6 | 320.5 | 326.2 | 328.0 |
| 127.5° | 229.5 | 254.4 | 275.4 | 291.3 | 303.5 | 311.3 | 316.2 | 318.1 |
| 130°   | 224.5 | 248.7 | 269.3 | 285.4 | 297.9 | 305.5 | 310.4 | 312.2 |
| 132.5° | 219.5 | 242.0 | 262.3 | 278.4 | 290.6 | 299.2 | 303.8 | 305.7 |
| 135°   | 212.4 | 232.2 | 250.7 | 266.0 | 278.1 | 286.6 | 291.5 | 293.3 |
| 137.5° | 206.0 | 222.7 | 238.4 | 252.1 | 263.6 | 271.9 | 276.0 | 278.1 |
| 140°   | 202.3 | 216.6 | 230.3 | 243.1 | 253.8 | 260.5 | 264.8 | 267.2 |
| 142.5° | 199.0 | 211.5 | 223.3 | 234.4 | 243.8 | 250.0 | 253.8 | 255.5 |
| 145°   | 194.2 | 204.5 | 213.6 | 222.1 | 229.7 | 234.9 | 238.0 | 239.4 |
| 147.5° | 190.2 | 198.4 | 205.7 | 212.4 | 218.0 | 222.5 | 224.7 | 225.3 |
| 150°   | 187.8 | 194.8 | 200.9 | 206.3 | 211.2 | 215.2 | 217.0 | 217.2 |
| 152.5° | 185.1 | 191.1 | 196.7 | 201.2 | 205.3 | 208.5 | 209.7 | 210.0 |
| 155°   | 181.1 | 185.9 | 190.5 | 194.2 | 197.2 | 199.6 | 200.5 | 200.5 |
| 157.5° | 176.8 | 180.8 | 184.7 | 187.6 | 189.9 | 191.7 | 192.3 | 192.3 |
| 160°   | 174.1 | 177.4 | 180.7 | 183.2 | 185.0 | 186.8 | 187.2 | 187.2 |
| 162.5° | 171.4 | 174.3 | 176.8 | 179.1 | 180.4 | 182.2 | 182.5 | 182.3 |
| 165°   | 167.6 | 169.5 | 171.6 | 173.1 | 174.4 | 175.6 | 175.3 | 175.0 |
| 167.5° | 164.1 | 165.5 | 167.2 | 168.1 | 168.7 | 169.5 | 169.4 | 169.2 |
| 170°   | 161.9 | 162.8 | 164.0 | 165.0 | 165.6 | 165.8 | 165.6 | 165.6 |
| 172.5° | 160.0 | 160.6 | 161.4 | 162.0 | 162.4 | 162.6 | 162.4 | 161.9 |
| 175°   | 157.3 | 157.6 | 158.3 | 158.3 | 158.3 | 158.9 | 158.3 | 157.6 |
| 177.5° | 155.6 | 155.8 | 155.8 | 156.1 | 155.8 | 156.1 | 155.6 | 155.2 |
| 180°   | 154.9 | 154.9 | 154.9 | 154.9 | 154.9 | 154.9 | 154.9 | 154.9 |

(END OF REPORT)