

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: P332936-940

Luminaire Tested: **SA4XXRDIP-C795D590U940-4F0-1E-UDD-F4**

Issue Date: 10/7/2019

**Test Information**

Test Method: LM-79-08  
Report Number: P332936-940  
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-C795D590U940-4F0-1E-UDD-F4  
Description: DEFINE 4 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 795 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER, REGRESSED  
HOUSING  
UPLIGHT 590 LUMENS PER FOOT, BATWING OPTIC  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4746.4 lumens  
Efficiency: N/A  
Efficacy: 117.8 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

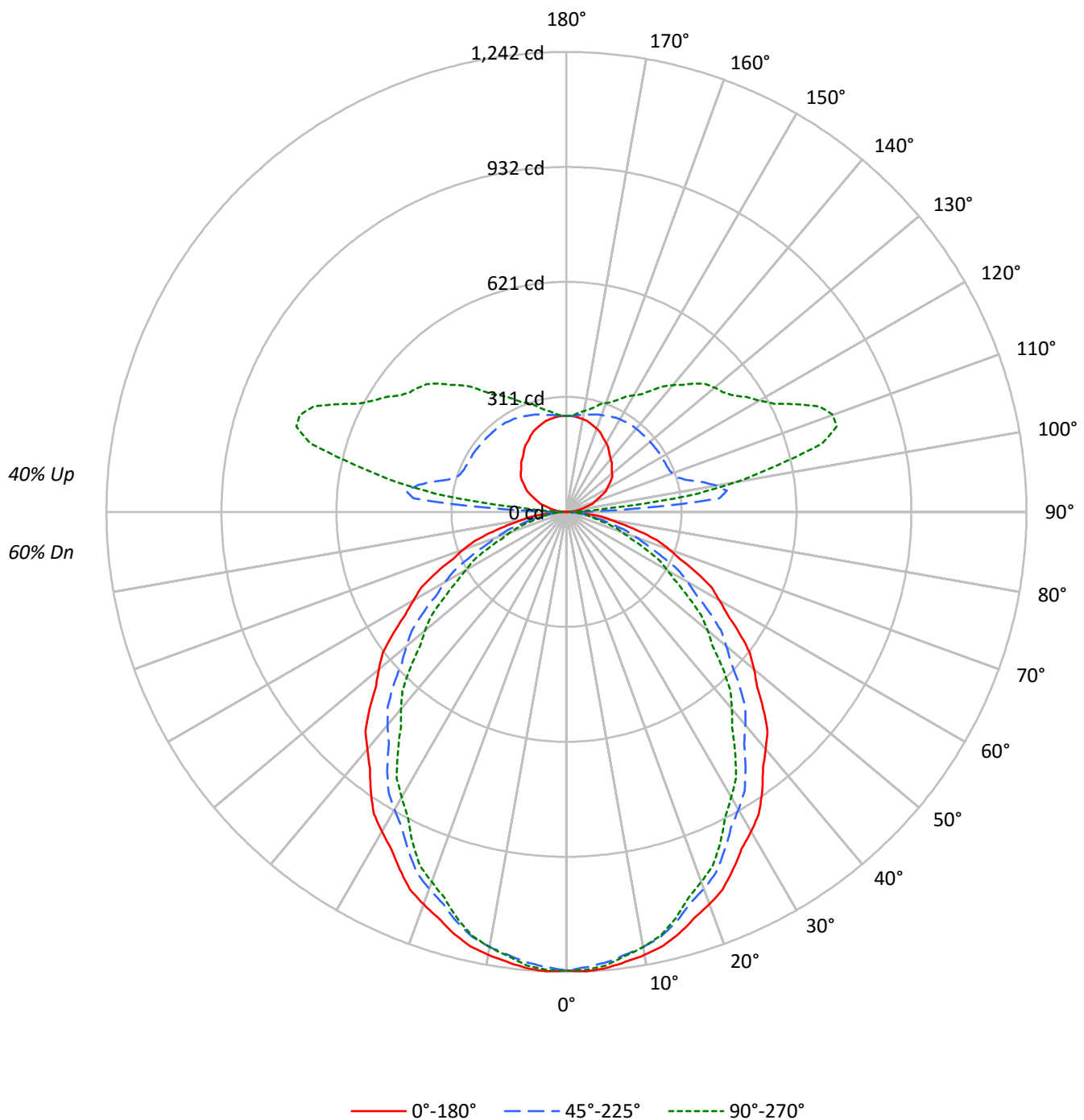
Input Watts (W): 40.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P332936-940

CATALOG NUMBER: SA4XXRDIP-C795D590U940-4F0-1E-UDD-F4

### Luminous Intensity Polar Plot



TEST NUMBER: P332936-940

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

|     |     |     |     |     |     |     |     |     |    |    |    |    |    |    |    |    |    |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|----|----|----|----|----|----|
| RF  | 20  |     |     |     | 20  |     |     |     | 20 |    |    |    | 20 |    |    |    | 20 |
| RC  | 80  |     |     |     | 70  |     |     |     | 50 |    |    |    | 30 |    |    |    | 10 |
| RW  | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 |
| RCR |     |     |     |     |     |     |     |     |    |    |    |    |    |    |    |    |    |
| 0   | 110 | 110 | 110 | 110 | 102 | 102 | 102 | 102 | 89 | 89 | 89 | 77 | 77 | 77 | 66 | 66 | 66 |
| 1   | 100 | 96  | 92  | 89  | 94  | 90  | 87  | 84  | 79 | 76 | 74 | 68 | 66 | 65 | 59 | 57 | 56 |
| 2   | 92  | 84  | 78  | 73  | 86  | 79  | 74  | 69  | 69 | 65 | 62 | 60 | 57 | 55 | 52 | 50 | 48 |
| 3   | 84  | 74  | 67  | 61  | 78  | 70  | 63  | 58  | 61 | 56 | 52 | 54 | 50 | 47 | 46 | 43 | 41 |
| 4   | 77  | 66  | 58  | 52  | 72  | 62  | 55  | 50  | 55 | 49 | 45 | 48 | 44 | 40 | 42 | 38 | 36 |
| 5   | 71  | 59  | 51  | 45  | 66  | 56  | 48  | 43  | 49 | 43 | 39 | 43 | 39 | 35 | 38 | 34 | 31 |
| 6   | 65  | 53  | 45  | 39  | 61  | 50  | 43  | 38  | 44 | 39 | 34 | 39 | 34 | 31 | 34 | 30 | 28 |
| 7   | 60  | 48  | 40  | 35  | 56  | 46  | 38  | 33  | 40 | 35 | 30 | 36 | 31 | 27 | 31 | 28 | 25 |
| 8   | 56  | 44  | 36  | 31  | 53  | 41  | 34  | 29  | 37 | 31 | 27 | 33 | 28 | 25 | 29 | 25 | 22 |
| 9   | 52  | 40  | 33  | 28  | 49  | 38  | 31  | 26  | 34 | 28 | 24 | 30 | 26 | 22 | 27 | 23 | 20 |
| 10  | 49  | 37  | 30  | 25  | 46  | 35  | 28  | 24  | 31 | 26 | 22 | 28 | 23 | 20 | 25 | 21 | 18 |

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

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 10001 | 10001 | 10001 |
| 5°  | 10023 | 9900  | 9961  |
| 10° | 9960  | 9781  | 9781  |
| 15° | 9845  | 9576  | 9504  |
| 20° | 9688  | 9306  | 9135  |
| 25° | 9487  | 8989  | 8761  |
| 30° | 9292  | 8655  | 8294  |
| 35° | 9077  | 8310  | 7824  |
| 40° | 8816  | 7917  | 7317  |
| 45° | 8576  | 7526  | 6801  |
| 50° | 8303  | 7076  | 6253  |
| 55° | 8010  | 6608  | 5661  |
| 60° | 7689  | 6095  | 5054  |
| 65° | 7393  | 5454  | 4458  |
| 70° | 6963  | 4747  | 3784  |
| 75° | 6419  | 3936  | 3075  |
| 80° | 5602  | 2999  | 2822  |
| 85° | 4742  | 2723  | 2547  |

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 116.4  | 2.5       |
| 10°-20°   | 324.5  | 6.8       |
| 20°-30°   | 468.6  | 9.9       |
| 30°-40°   | 531.1  | 11.2      |
| 40°-50°   | 512.9  | 10.8      |
| 50°-60°   | 426.5  | 9.0       |
| 60°-70°   | 294.5  | 6.2       |
| 70°-80°   | 149.3  | 3.1       |
| 80°-90°   | 39.7   | 0.8       |
| 90°-100°  | 187.0  | 3.9       |
| 100°-110° | 389.2  | 8.2       |
| 110°-120° | 348.6  | 7.3       |
| 120°-130° | 293.2  | 6.2       |
| 130°-140° | 244.5  | 5.2       |
| 140°-150° | 186.8  | 3.9       |
| 150°-160° | 131.3  | 2.8       |
| 160°-170° | 77.2   | 1.6       |
| 170°-180° | 25.1   | 0.5       |
| 0°-30°    | 909.4  | 19.2      |
| 0°-40°    | 1440.5 | 30.3      |
| 0°-60°    | 2379.9 | 50.1      |
| 0°-90°    | 2863.4 | 60.3      |
| 90°-120°  | 924.8  | 19.5      |
| 90°-150°  | 1649.4 | 34.8      |
| 90°-180°  | 1883.0 | 39.7      |
| 0°-180°   | 4746.4 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 1239 | 1239  | 1239 | 1239  | 1239 |      |
| 5°   | 1237 | 1233  | 1222 | 1230  | 1229 | 117  |
| 15°  | 1178 | 1169  | 1146 | 1144  | 1137 | 332  |
| 25°  | 1065 | 1047  | 1009 | 993   | 984  | 491  |
| 35°  | 921  | 890   | 843  | 812   | 794  | 575  |
| 45°  | 751  | 715   | 659  | 614   | 596  | 579  |
| 55°  | 569  | 530   | 470  | 422   | 402  | 509  |
| 65°  | 387  | 345   | 286  | 246   | 233  | 382  |
| 75°  | 206  | 170   | 126  | 105   | 99   | 217  |
| 85°  | 51   | 33    | 29   | 28    | 28   | 58   |
| 90°  | 0    | 4     | 9    | 10    | 11   | 3    |
| 95°  | 17   | 53    | 415  | 205   | 124  | 19   |
| 105° | 60   | 86    | 334  | 719   | 716  | 63   |
| 115° | 105  | 132   | 298  | 572   | 687  | 104  |
| 125° | 146  | 173   | 296  | 486   | 548  | 130  |
| 135° | 173  | 206   | 294  | 432   | 490  | 134  |
| 145° | 200  | 229   | 292  | 364   | 400  | 125  |
| 155° | 227  | 245   | 284  | 321   | 335  | 105  |
| 165° | 248  | 255   | 272  | 288   | 292  | 70   |
| 175° | 258  | 259   | 261  | 264   | 264  | 25   |
| 180° | 259  | 259   | 259  | 259   | 259  |      |

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**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1238.8 | 1238.8 | 1238.8 | 1238.8 | 1238.8 | 1238.8 | 1238.8 | 1238.8 | 1238.8 | 1238.8 | 1238.8 |
| 2.5°   | 1241.8 | 1241.1 | 1240.4 | 1239.7 | 1239.0 | 1237.8 | 1235.9 | 1234.1 | 1232.3 | 1230.4 | 1232.3 |
| 5°     | 1236.8 | 1236.0 | 1235.1 | 1234.3 | 1233.4 | 1231.8 | 1229.2 | 1226.7 | 1224.1 | 1221.6 | 1223.8 |
| 7.5°   | 1225.7 | 1224.8 | 1223.9 | 1223.0 | 1222.1 | 1220.0 | 1216.7 | 1213.4 | 1210.1 | 1206.8 | 1208.2 |
| 10°    | 1215.0 | 1214.0 | 1212.9 | 1211.8 | 1210.8 | 1208.4 | 1204.6 | 1200.8 | 1197.0 | 1193.2 | 1194.0 |
| 12.5°  | 1201.3 | 1200.2 | 1198.9 | 1197.7 | 1196.5 | 1193.6 | 1189.2 | 1184.6 | 1180.2 | 1175.7 | 1176.3 |
| 15°    | 1178.0 | 1176.2 | 1174.2 | 1172.3 | 1170.5 | 1166.9 | 1161.5 | 1156.3 | 1151.0 | 1145.8 | 1145.3 |
| 17.5°  | 1149.8 | 1147.0 | 1144.2 | 1141.6 | 1138.8 | 1134.3 | 1127.9 | 1121.6 | 1115.3 | 1108.9 | 1107.8 |
| 20°    | 1127.7 | 1125.0 | 1122.3 | 1119.5 | 1116.8 | 1111.9 | 1104.7 | 1097.5 | 1090.3 | 1083.2 | 1081.5 |
| 22.5°  | 1103.5 | 1100.4 | 1097.3 | 1094.2 | 1091.2 | 1085.7 | 1078.1 | 1070.4 | 1062.7 | 1055.1 | 1052.6 |
| 25°    | 1065.1 | 1061.3 | 1057.6 | 1053.7 | 1050.0 | 1043.7 | 1035.1 | 1026.4 | 1017.8 | 1009.1 | 1005.6 |
| 27.5°  | 1024.9 | 1020.2 | 1015.4 | 1010.7 | 1005.8 | 998.9  | 989.6  | 980.4  | 971.2  | 962.0  | 957.5  |
| 30°    | 996.8  | 991.6  | 986.3  | 981.1  | 975.8  | 968.2  | 958.3  | 948.4  | 938.4  | 928.5  | 923.3  |
| 32.5°  | 967.2  | 961.4  | 955.4  | 949.4  | 943.5  | 935.4  | 925.1  | 914.9  | 904.6  | 894.4  | 888.3  |
| 35°    | 921.0  | 914.3  | 907.5  | 900.7  | 894.0  | 885.4  | 874.9  | 864.2  | 853.7  | 843.2  | 836.1  |
| 37.5°  | 871.5  | 864.5  | 857.6  | 850.6  | 843.6  | 834.4  | 822.7  | 811.0  | 799.3  | 787.6  | 779.6  |
| 40°    | 836.6  | 829.6  | 822.7  | 815.7  | 808.8  | 799.2  | 787.2  | 775.3  | 763.2  | 751.2  | 742.3  |
| 42.5°  | 803.2  | 795.9  | 788.6  | 781.3  | 774.0  | 764.1  | 751.6  | 739.0  | 726.6  | 714.0  | 705.0  |
| 45°    | 751.2  | 743.4  | 735.6  | 727.8  | 720.0  | 709.8  | 697.1  | 684.5  | 671.8  | 659.2  | 648.9  |
| 47.5°  | 697.5  | 689.5  | 681.4  | 673.3  | 665.3  | 654.7  | 641.6  | 628.4  | 615.3  | 602.1  | 591.4  |
| 50°    | 661.1  | 652.9  | 644.6  | 636.4  | 628.2  | 617.3  | 603.9  | 590.4  | 576.8  | 563.4  | 552.9  |
| 52.5°  | 623.9  | 615.9  | 607.8  | 599.8  | 591.7  | 580.8  | 566.9  | 553.1  | 539.3  | 525.5  | 514.8  |
| 55°    | 569.1  | 560.6  | 552.2  | 543.8  | 535.4  | 524.3  | 510.6  | 496.9  | 483.2  | 469.5  | 458.5  |
| 57.5°  | 514.9  | 506.0  | 497.3  | 488.6  | 479.7  | 468.6  | 455.1  | 441.7  | 428.2  | 414.6  | 403.6  |
| 60°    | 476.2  | 467.7  | 459.3  | 450.8  | 442.4  | 431.5  | 417.9  | 404.5  | 391.0  | 377.5  | 366.5  |
| 62.5°  | 441.2  | 432.5  | 423.7  | 414.9  | 406.2  | 394.8  | 381.0  | 367.2  | 353.4  | 339.6  | 329.4  |
| 65°    | 387.0  | 377.9  | 368.8  | 359.8  | 350.7  | 339.5  | 325.9  | 312.5  | 299.0  | 285.5  | 276.4  |
| 67.5°  | 330.6  | 322.0  | 313.3  | 304.6  | 295.9  | 285.3  | 272.8  | 260.3  | 247.7  | 235.2  | 227.4  |
| 70°    | 295.0  | 286.1  | 277.2  | 268.4  | 259.6  | 249.1  | 237.1  | 225.1  | 213.1  | 201.1  | 194.1  |
| 72.5°  | 257.1  | 249.1  | 241.0  | 233.0  | 225.0  | 215.3  | 204.0  | 192.6  | 181.3  | 170.0  | 164.0  |
| 75°    | 205.8  | 198.0  | 190.2  | 182.4  | 174.6  | 165.8  | 155.9  | 146.0  | 136.1  | 126.2  | 121.3  |
| 77.5°  | 153.8  | 147.2  | 140.6  | 134.0  | 127.3  | 120.0  | 112.1  | 104.1  | 96.0   | 88.0   | 85.2   |
| 80°    | 120.5  | 114.3  | 108.3  | 102.1  | 96.0   | 89.8   | 83.5   | 77.1   | 70.8   | 64.5   | 63.8   |
| 82.5°  | 91.7   | 86.1   | 80.4   | 74.8   | 69.2   | 64.6   | 61.0   | 57.3   | 53.7   | 50.1   | 49.6   |
| 85°    | 51.2   | 47.0   | 42.8   | 38.6   | 34.3   | 31.9   | 31.3   | 30.7   | 30.1   | 29.4   | 29.0   |
| 87.5°  | 17.6   | 16.4   | 15.3   | 14.1   | 12.8   | 12.1   | 12.6   | 12.4   | 12.4   | 12.5   | 12.2   |
| 90°    | 0.5    | 1.5    | 3.0    | 3.6    | 4.1    | 4.1    | 7.1    | 7.1    | 8.1    | 9.2    | 8.6    |
| 92.5°  | 5.8    | 8.5    | 13.2   | 19.4   | 26.8   | 37.5   | 63.3   | 102.7  | 141.2  | 161.3  | 134.4  |
| 95°    | 16.8   | 18.3   | 23.4   | 30.1   | 42.2   | 63.6   | 107.8  | 191.3  | 312.8  | 414.6  | 426.2  |
| 97.5°  | 30.1   | 30.1   | 34.5   | 40.6   | 51.1   | 69.0   | 103.1  | 171.9  | 292.8  | 436.7  | 535.6  |
| 100°   | 38.7   | 38.7   | 42.2   | 48.3   | 58.0   | 74.3   | 104.2  | 161.8  | 265.6  | 408.9  | 539.2  |
| 102.5° | 46.8   | 47.6   | 50.7   | 56.4   | 65.7   | 81.1   | 108.3  | 158.9  | 247.2  | 374.4  | 508.6  |
| 105°   | 59.5   | 61.1   | 63.6   | 69.7   | 78.8   | 93.6   | 118.0  | 160.2  | 231.5  | 333.7  | 453.3  |
| 107.5° | 73.6   | 74.5   | 77.1   | 83.6   | 92.4   | 106.9  | 129.3  | 167.7  | 228.6  | 310.9  | 408.5  |
| 110°   | 82.9   | 83.9   | 86.5   | 92.6   | 101.7  | 115.5  | 137.9  | 173.4  | 229.4  | 303.2  | 386.1  |

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**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 5°    | 10°   | 15°   | 20°   | 25°   | 30°   | 35°   | 40°   | 45°   | 50°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 91.8  | 92.9  | 95.9  | 101.6 | 110.7 | 124.4 | 146.0 | 179.6 | 231.8 | 299.5 | 373.4 |
| 115°   | 104.8 | 106.3 | 109.9 | 114.9 | 124.7 | 138.4 | 158.7 | 189.2 | 236.6 | 297.6 | 361.7 |
| 117.5° | 118.2 | 119.7 | 122.8 | 128.4 | 137.4 | 151.7 | 171.0 | 199.1 | 241.5 | 297.0 | 356.4 |
| 120°   | 127.2 | 128.2 | 131.7 | 137.3 | 146.0 | 160.2 | 179.6 | 206.0 | 245.2 | 297.0 | 353.6 |
| 122.5° | 135.3 | 136.3 | 139.9 | 145.1 | 154.5 | 168.4 | 187.7 | 212.5 | 248.9 | 296.7 | 350.3 |
| 125°   | 146.0 | 148.0 | 151.1 | 156.7 | 166.3 | 180.6 | 198.9 | 222.3 | 254.3 | 296.0 | 344.9 |
| 127.5° | 155.4 | 157.1 | 160.8 | 167.1 | 177.2 | 191.5 | 209.3 | 230.8 | 258.7 | 294.9 | 337.7 |
| 130°   | 160.8 | 162.7 | 166.8 | 174.5 | 184.1 | 198.9 | 216.2 | 236.0 | 262.0 | 294.5 | 333.1 |
| 132.5° | 166.0 | 167.6 | 173.0 | 180.2 | 190.6 | 204.6 | 221.9 | 241.3 | 264.8 | 294.1 | 329.1 |
| 135°   | 173.4 | 175.5 | 180.6 | 189.2 | 199.9 | 213.1 | 229.9 | 248.3 | 269.1 | 293.5 | 323.0 |
| 137.5° | 180.9 | 182.8 | 188.4 | 196.6 | 207.8 | 220.3 | 236.0 | 253.2 | 271.6 | 293.4 | 317.7 |
| 140°   | 186.2 | 187.7 | 193.3 | 202.0 | 212.6 | 224.8 | 240.1 | 256.4 | 273.7 | 293.0 | 314.9 |
| 142.5° | 191.9 | 193.4 | 198.6 | 206.8 | 217.1 | 228.9 | 243.8 | 258.8 | 275.3 | 293.0 | 312.5 |
| 145°   | 199.9 | 201.4 | 206.5 | 213.7 | 223.3 | 234.5 | 247.7 | 261.4 | 276.3 | 291.9 | 308.3 |
| 147.5° | 208.9 | 209.5 | 213.9 | 221.2 | 229.3 | 239.4 | 251.8 | 263.8 | 276.7 | 290.2 | 304.5 |
| 150°   | 214.6 | 215.2 | 219.3 | 225.3 | 233.0 | 242.6 | 253.9 | 265.0 | 276.7 | 288.9 | 301.7 |
| 152.5° | 220.0 | 220.1 | 224.1 | 229.8 | 236.7 | 245.5 | 255.5 | 265.8 | 275.9 | 286.9 | 298.4 |
| 155°   | 227.4 | 227.9 | 231.0 | 236.0 | 241.7 | 249.2 | 257.9 | 266.5 | 274.6 | 283.8 | 293.5 |
| 157.5° | 234.6 | 234.6 | 237.5 | 241.4 | 246.3 | 252.3 | 259.7 | 266.5 | 273.4 | 280.7 | 288.6 |
| 160°   | 239.1 | 239.1 | 241.1 | 244.7 | 248.7 | 254.3 | 260.5 | 266.5 | 272.2 | 278.2 | 284.9 |
| 162.5° | 243.2 | 242.7 | 244.3 | 247.5 | 251.2 | 255.6 | 261.3 | 266.5 | 270.9 | 275.8 | 281.6 |
| 165°   | 247.7 | 247.7 | 248.7 | 251.3 | 253.9 | 256.9 | 261.4 | 265.6 | 268.6 | 272.2 | 276.3 |
| 167.5° | 252.3 | 251.8 | 252.3 | 254.2 | 255.7 | 258.0 | 261.4 | 264.3 | 266.2 | 268.5 | 271.3 |
| 170°   | 254.3 | 253.9 | 254.3 | 255.8 | 256.9 | 258.4 | 260.9 | 263.5 | 264.5 | 266.0 | 268.0 |
| 172.5° | 256.4 | 255.8 | 255.9 | 257.1 | 257.7 | 258.8 | 260.6 | 262.7 | 262.9 | 263.6 | 265.2 |
| 175°   | 258.4 | 257.9 | 257.9 | 258.4 | 259.0 | 259.0 | 259.9 | 261.4 | 260.9 | 260.9 | 262.0 |
| 177.5° | 259.3 | 259.0 | 258.5 | 259.0 | 259.0 | 259.0 | 259.3 | 260.1 | 259.3 | 259.3 | 259.8 |
| 180°   | 259.0 | 259.0 | 259.0 | 259.0 | 259.0 | 259.0 | 259.0 | 259.0 | 259.0 | 259.0 | 259.0 |

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**CANDELA DISTRIBUTION (continued):**

|        | 55°    | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1238.8 | 1238.8 | 1238.8 | 1238.8 | 1238.8 | 1238.8 | 1238.8 | 1238.8 |
| 2.5°   | 1234.1 | 1235.9 | 1237.8 | 1238.7 | 1238.5 | 1238.3 | 1238.1 | 1238.0 |
| 5°     | 1225.8 | 1228.0 | 1230.1 | 1230.9 | 1230.5 | 1230.1 | 1229.7 | 1229.2 |
| 7.5°   | 1209.5 | 1210.9 | 1212.3 | 1212.5 | 1211.9 | 1211.2 | 1210.6 | 1209.9 |
| 10°    | 1194.9 | 1195.7 | 1196.6 | 1196.6 | 1195.7 | 1194.9 | 1194.0 | 1193.2 |
| 12.5°  | 1176.8 | 1177.2 | 1177.8 | 1177.4 | 1176.3 | 1175.1 | 1173.8 | 1172.7 |
| 15°    | 1145.0 | 1144.5 | 1144.1 | 1143.2 | 1141.7 | 1140.1 | 1138.7 | 1137.2 |
| 17.5°  | 1106.6 | 1105.5 | 1104.2 | 1102.5 | 1100.3 | 1098.1 | 1095.8 | 1093.6 |
| 20°    | 1079.8 | 1078.1 | 1076.4 | 1074.2 | 1071.5 | 1068.7 | 1066.0 | 1063.3 |
| 22.5°  | 1050.1 | 1047.5 | 1045.0 | 1042.6 | 1040.4 | 1038.1 | 1035.9 | 1033.7 |
| 25°    | 1002.0 | 998.4  | 994.9  | 992.0  | 989.9  | 987.8  | 985.7  | 983.6  |
| 27.5°  | 953.1  | 948.7  | 944.2  | 940.5  | 937.5  | 934.4  | 931.4  | 928.4  |
| 30°    | 918.0  | 912.8  | 907.5  | 903.1  | 899.8  | 896.4  | 893.0  | 889.7  |
| 32.5°  | 882.2  | 876.1  | 870.0  | 865.3  | 862.1  | 858.9  | 855.7  | 852.5  |
| 35°    | 828.8  | 821.7  | 814.6  | 809.0  | 805.3  | 801.5  | 797.6  | 793.9  |
| 37.5°  | 771.6  | 763.6  | 755.5  | 749.7  | 745.9  | 742.1  | 738.3  | 734.5  |
| 40°    | 733.5  | 724.6  | 715.8  | 709.4  | 705.7  | 701.9  | 698.1  | 694.3  |
| 42.5°  | 696.0  | 687.0  | 678.0  | 671.5  | 667.4  | 663.5  | 659.6  | 655.6  |
| 45°    | 638.6  | 628.2  | 617.9  | 610.8  | 607.0  | 603.2  | 599.4  | 595.7  |
| 47.5°  | 580.7  | 570.0  | 559.3  | 551.8  | 547.7  | 543.5  | 539.3  | 535.1  |
| 50°    | 542.3  | 531.8  | 521.2  | 514.0  | 510.0  | 506.0  | 501.9  | 497.9  |
| 52.5°  | 504.1  | 493.4  | 482.6  | 475.2  | 471.0  | 466.8  | 462.7  | 458.5  |
| 55°    | 447.5  | 436.6  | 425.7  | 418.2  | 414.2  | 410.2  | 406.2  | 402.2  |
| 57.5°  | 392.4  | 381.3  | 370.1  | 363.1  | 360.1  | 357.0  | 354.0  | 351.0  |
| 60°    | 355.6  | 344.6  | 333.7  | 326.5  | 323.2  | 319.8  | 316.4  | 313.0  |
| 62.5°  | 319.3  | 309.2  | 299.1  | 292.7  | 290.0  | 287.3  | 284.5  | 281.9  |
| 65°    | 267.3  | 258.3  | 249.2  | 243.4  | 240.9  | 238.4  | 235.9  | 233.4  |
| 67.5°  | 219.6  | 211.9  | 204.0  | 198.8  | 196.0  | 193.1  | 190.4  | 187.6  |
| 70°    | 187.2  | 180.2  | 173.3  | 168.7  | 166.7  | 164.5  | 162.4  | 160.3  |
| 72.5°  | 158.1  | 152.1  | 146.2  | 142.2  | 140.4  | 138.4  | 136.4  | 134.5  |
| 75°    | 116.5  | 111.6  | 106.7  | 103.7  | 102.5  | 101.2  | 99.9   | 98.6   |
| 77.5°  | 82.4   | 79.5   | 76.7   | 75.1   | 74.7   | 74.4   | 74.0   | 73.6   |
| 80°    | 63.2   | 62.6   | 62.0   | 61.5   | 61.3   | 61.1   | 60.9   | 60.7   |
| 82.5°  | 49.1   | 48.7   | 48.2   | 47.9   | 47.7   | 47.4   | 47.3   | 47.1   |
| 85°    | 28.5   | 28.2   | 27.7   | 27.5   | 27.5   | 27.5   | 27.5   | 27.5   |
| 87.5°  | 12.1   | 12.0   | 11.9   | 11.9   | 12.2   | 12.5   | 12.6   | 12.8   |
| 90°    | 9.2    | 9.6    | 10.2   | 10.2   | 10.7   | 11.1   | 10.7   | 10.7   |
| 92.5°  | 99.9   | 75.2   | 59.8   | 49.7   | 43.6   | 40.9   | 39.1   | 39.1   |
| 95°    | 376.9  | 298.1  | 229.9  | 180.6  | 155.7  | 139.9  | 130.7  | 124.1  |
| 97.5°  | 556.9  | 527.6  | 477.9  | 424.7  | 388.3  | 357.6  | 342.3  | 331.7  |
| 100°   | 613.5  | 623.7  | 598.7  | 561.1  | 516.8  | 485.8  | 470.6  | 466.5  |
| 102.5° | 610.6  | 661.1  | 668.3  | 652.6  | 625.4  | 603.0  | 586.9  | 583.6  |
| 105°   | 569.7  | 657.7  | 708.1  | 729.0  | 730.0  | 725.9  | 718.7  | 715.7  |
| 107.5° | 511.7  | 605.3  | 676.3  | 721.6  | 746.7  | 758.3  | 763.4  | 764.7  |
| 110°   | 476.6  | 564.6  | 638.4  | 694.4  | 730.5  | 751.8  | 761.0  | 765.5  |

TEST NUMBER: P332936-940

CATALOG NUMBER: SA4XXRDIP-C795D590U940-4F0-1E-UDD-F4

**CANDELA DISTRIBUTION (continued):**

|        | 55°   | 60°   | 65°   | 70°   | 75°   | 80°   | 85°   | 90°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 451.0 | 528.8 | 598.5 | 654.4 | 695.4 | 721.3 | 734.1 | 741.5 |
| 115°   | 425.3 | 487.9 | 547.3 | 596.2 | 636.3 | 666.9 | 683.1 | 687.2 |
| 117.5° | 412.6 | 464.4 | 511.2 | 552.6 | 586.9 | 612.5 | 629.0 | 632.2 |
| 120°   | 407.0 | 454.2 | 494.9 | 531.0 | 560.1 | 582.5 | 595.7 | 601.3 |
| 122.5° | 402.1 | 447.7 | 484.7 | 516.4 | 540.9 | 560.1 | 571.2 | 576.8 |
| 125°   | 393.7 | 437.5 | 472.5 | 500.5 | 520.8 | 535.7 | 545.3 | 548.3 |
| 127.5° | 383.5 | 425.3 | 460.4 | 486.9 | 507.4 | 520.5 | 528.6 | 531.6 |
| 130°   | 375.4 | 415.6 | 450.1 | 477.2 | 498.0 | 510.7 | 518.9 | 521.9 |
| 132.5° | 366.8 | 404.6 | 438.4 | 465.3 | 485.8 | 500.2 | 507.8 | 511.0 |
| 135°   | 355.1 | 388.2 | 419.1 | 444.6 | 464.9 | 479.2 | 487.3 | 490.4 |
| 137.5° | 344.4 | 372.4 | 398.5 | 421.5 | 440.5 | 454.6 | 461.3 | 464.9 |
| 140°   | 338.2 | 362.2 | 385.0 | 406.4 | 424.3 | 435.4 | 442.6 | 446.7 |
| 142.5° | 332.6 | 353.7 | 373.3 | 391.8 | 407.5 | 417.9 | 424.3 | 427.0 |
| 145°   | 324.5 | 341.8 | 357.1 | 371.3 | 384.1 | 392.7 | 397.8 | 400.3 |
| 147.5° | 317.9 | 331.6 | 343.8 | 355.1 | 364.4 | 371.8 | 375.7 | 376.7 |
| 150°   | 313.9 | 325.6 | 335.7 | 344.9 | 353.0 | 359.6 | 362.7 | 363.2 |
| 152.5° | 309.3 | 319.4 | 328.8 | 336.4 | 343.2 | 348.7 | 350.4 | 351.0 |
| 155°   | 302.6 | 310.8 | 318.4 | 324.5 | 329.7 | 333.7 | 335.2 | 335.2 |
| 157.5° | 295.4 | 302.3 | 308.6 | 313.5 | 317.4 | 320.5 | 321.4 | 321.4 |
| 160°   | 291.0 | 296.6 | 302.1 | 306.2 | 309.2 | 312.4 | 312.8 | 312.8 |
| 162.5° | 286.5 | 291.2 | 295.6 | 299.3 | 301.6 | 304.6 | 305.1 | 304.7 |
| 165°   | 280.3 | 283.3 | 286.9 | 289.4 | 291.5 | 293.5 | 293.0 | 292.5 |
| 167.5° | 274.3 | 276.6 | 279.5 | 281.0 | 282.0 | 283.3 | 283.2 | 282.9 |
| 170°   | 270.6 | 272.2 | 274.2 | 275.7 | 276.7 | 277.2 | 276.7 | 276.7 |
| 172.5° | 267.3 | 268.5 | 269.7 | 270.8 | 271.4 | 272.0 | 271.4 | 270.6 |
| 175°   | 263.0 | 263.5 | 264.5 | 264.5 | 264.5 | 265.6 | 264.5 | 263.5 |
| 177.5° | 260.1 | 260.6 | 260.6 | 260.9 | 260.6 | 260.9 | 260.1 | 259.3 |
| 180°   | 259.0 | 259.0 | 259.0 | 259.0 | 259.0 | 259.0 | 259.0 | 259.0 |

(END OF REPORT)