

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: P331710-927

Luminaire Tested: **S122RDIP-S865D330U927-4F0-1E-UDD-F4**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P331710-927  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-16,  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: S122RDIP-S865D330U927-4F0-1E-UDD-F4  
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 865 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER, REGRESSED  
HOUSING  
UPLIGHT 330 LUMENS PER FOOT, BATWING OPTIC  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3403.2 lumens  
Efficiency: N/A  
Efficacy: 78.2 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: Semi-Direct

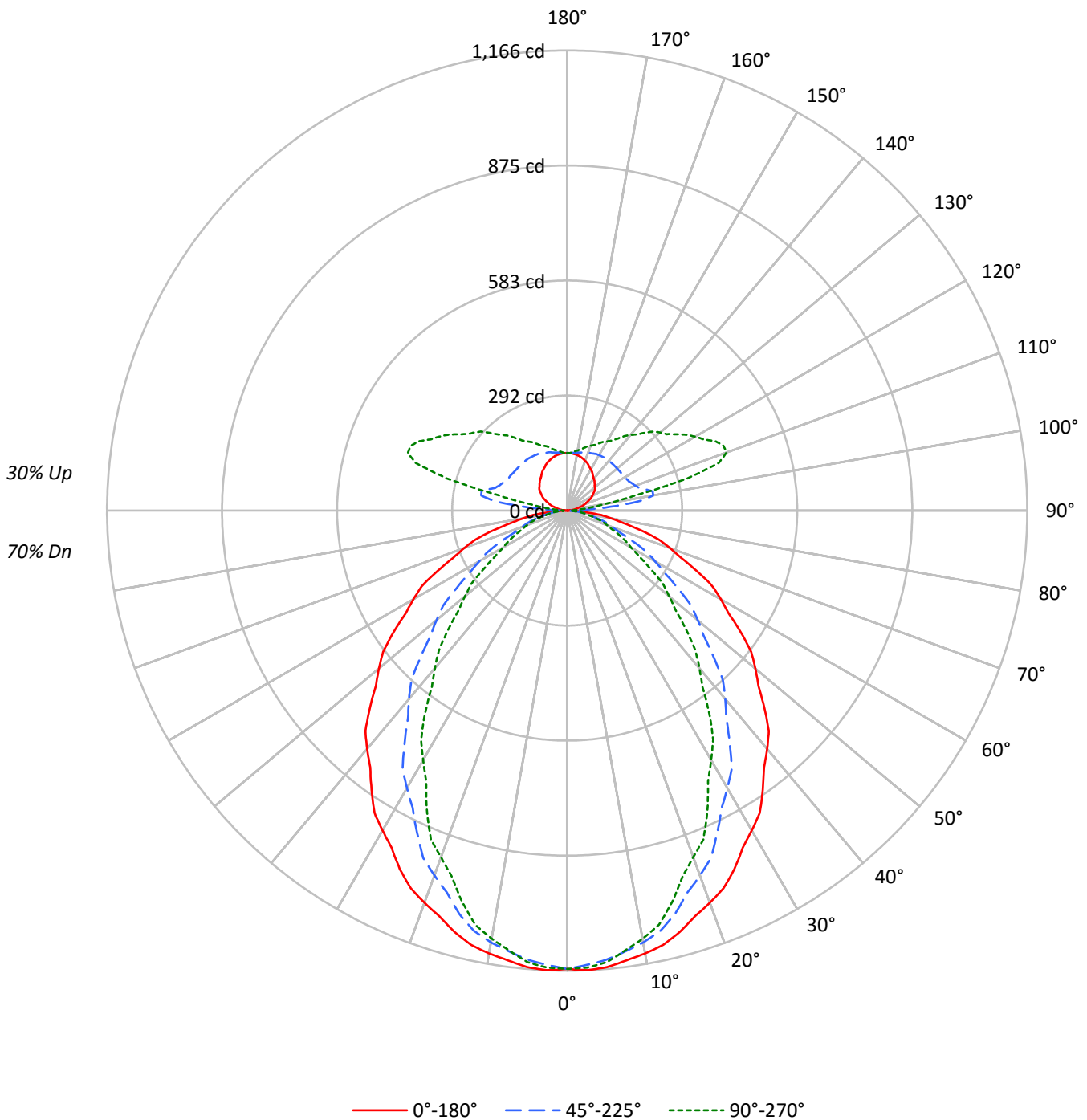
Input Watts (W): 43.5  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





TEST NUMBER: P331710-927

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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   | 112 | 112 | 112 | 112 | 106 | 106 | 106 | 106 | 95 | 95 | 95 | 84 | 84 | 84 | 75 | 75 | 75 | 70 |
| 1   | 103 | 99  | 95  | 92  | 97  | 94  | 90  | 87  | 84 | 82 | 79 | 75 | 73 | 72 | 67 | 66 | 64 | 60 |
| 2   | 94  | 87  | 81  | 76  | 89  | 83  | 77  | 73  | 74 | 70 | 67 | 67 | 64 | 61 | 60 | 57 | 55 | 52 |
| 3   | 87  | 77  | 70  | 64  | 82  | 73  | 67  | 62  | 66 | 61 | 57 | 60 | 56 | 52 | 54 | 51 | 48 | 45 |
| 4   | 80  | 69  | 61  | 55  | 75  | 66  | 59  | 53  | 59 | 54 | 49 | 54 | 49 | 45 | 48 | 45 | 42 | 39 |
| 5   | 73  | 62  | 54  | 48  | 69  | 59  | 52  | 46  | 54 | 48 | 43 | 49 | 44 | 40 | 44 | 40 | 37 | 34 |
| 6   | 68  | 56  | 48  | 42  | 64  | 53  | 46  | 41  | 49 | 43 | 38 | 44 | 39 | 35 | 40 | 36 | 33 | 30 |
| 7   | 63  | 51  | 43  | 37  | 60  | 49  | 41  | 36  | 44 | 38 | 34 | 41 | 35 | 32 | 37 | 33 | 30 | 27 |
| 8   | 59  | 46  | 39  | 33  | 56  | 44  | 37  | 32  | 41 | 35 | 30 | 37 | 32 | 29 | 34 | 30 | 27 | 25 |
| 9   | 55  | 43  | 35  | 30  | 52  | 41  | 34  | 29  | 38 | 32 | 28 | 35 | 30 | 26 | 32 | 27 | 24 | 22 |
| 10  | 52  | 39  | 32  | 27  | 49  | 38  | 31  | 27  | 35 | 29 | 25 | 32 | 27 | 24 | 29 | 25 | 22 | 20 |

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

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 18755 | 18755 | 18755 |
| 5°  | 18827 | 18519 | 18621 |
| 10° | 18682 | 18216 | 18061 |
| 15° | 18467 | 17677 | 17167 |
| 20° | 18170 | 16905 | 16057 |
| 25° | 17865 | 16030 | 14982 |
| 30° | 17443 | 15129 | 13601 |
| 35° | 17030 | 14152 | 12390 |
| 40° | 16617 | 13139 | 10989 |
| 45° | 16130 | 12001 | 9720  |
| 50° | 15631 | 10854 | 8475  |
| 55° | 15122 | 9619  | 7279  |
| 60° | 14528 | 8315  | 6042  |
| 65° | 13857 | 6988  | 5501  |
| 70° | 13053 | 5755  | 5061  |
| 75° | 12071 | 5246  | 4722  |
| 80° | 10646 | 4695  | 4305  |
| 85° | 8373  | 3705  | 3705  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 108.7  | 3.2       |
| 10°-20°   | 298.5  | 8.8       |
| 20°-30°   | 419.2  | 12.3      |
| 30°-40°   | 457.1  | 13.4      |
| 40°-50°   | 420.3  | 12.4      |
| 50°-60°   | 330.1  | 9.7       |
| 60°-70°   | 215.2  | 6.3       |
| 70°-80°   | 111.0  | 3.3       |
| 80°-90°   | 30.1   | 0.9       |
| 90°-100°  | 58.2   | 1.7       |
| 100°-110° | 197.5  | 5.8       |
| 110°-120° | 209.8  | 6.2       |
| 120°-130° | 172.7  | 5.1       |
| 130°-140° | 138.7  | 4.1       |
| 140°-150° | 104.8  | 3.1       |
| 150°-160° | 73.7   | 2.2       |
| 160°-170° | 43.4   | 1.3       |
| 170°-180° | 14.1   | 0.4       |
| 0°-30°    | 826.5  | 24.3      |
| 0°-40°    | 1283.6 | 37.7      |
| 0°-60°    | 2034.0 | 59.8      |
| 0°-90°    | 2390.3 | 70.2      |
| 90°-120°  | 465.5  | 13.7      |
| 90°-150°  | 881.7  | 25.9      |
| 90°-180°  | 1013.0 | 29.8      |
| 0°-180°   | 3403.2 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 1162 | 1162  | 1162 | 1162  | 1162 |      |
| 5°   | 1162 | 1156  | 1143 | 1151  | 1149 | 110  |
| 15°  | 1105 | 1092  | 1058 | 1038  | 1027 | 311  |
| 25°  | 1003 | 967   | 900  | 858   | 841  | 461  |
| 35°  | 864  | 808   | 718  | 654   | 629  | 541  |
| 45°  | 706  | 634   | 526  | 454   | 426  | 545  |
| 55°  | 537  | 453   | 342  | 281   | 259  | 480  |
| 65°  | 363  | 277   | 183  | 149   | 144  | 359  |
| 75°  | 194  | 122   | 84   | 77    | 76   | 205  |
| 85°  | 45   | 24    | 20   | 20    | 20   | 53   |
| 90°  | 0    | 4     | 10   | 9     | 9    | 2    |
| 95°  | 10   | 24    | 110  | 41    | 32   | 10   |
| 105° | 34   | 52    | 207  | 371   | 315  | 36   |
| 115° | 60   | 76    | 174  | 358   | 415  | 60   |
| 125° | 84   | 99    | 167  | 290   | 337  | 75   |
| 135° | 98   | 118   | 165  | 244   | 279  | 76   |
| 145° | 112  | 129   | 164  | 204   | 223  | 71   |
| 155° | 128  | 138   | 159  | 180   | 187  | 59   |
| 165° | 139  | 144   | 153  | 162   | 164  | 39   |
| 175° | 145  | 145   | 147  | 148   | 148  | 14   |
| 180° | 146  | 146   | 146  | 146   | 146  |      |



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**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1161.6 | 1161.6 | 1161.6 | 1161.6 | 1161.6 | 1161.6 | 1161.6 | 1161.6 | 1161.6 | 1161.6 | 1161.6 |
| 2.5°   | 1165.8 | 1164.8 | 1163.9 | 1162.9 | 1162.1 | 1160.5 | 1158.5 | 1156.4 | 1154.4 | 1152.3 | 1154.2 |
| 5°     | 1161.6 | 1160.4 | 1159.2 | 1158.0 | 1156.9 | 1154.8 | 1151.8 | 1148.7 | 1145.7 | 1142.6 | 1144.7 |
| 7.5°   | 1149.5 | 1148.1 | 1146.7 | 1145.3 | 1143.8 | 1141.3 | 1137.7 | 1134.2 | 1130.6 | 1127.0 | 1127.7 |
| 10°    | 1139.5 | 1137.8 | 1136.2 | 1134.6 | 1132.9 | 1129.8 | 1125.1 | 1120.5 | 1115.8 | 1111.1 | 1110.4 |
| 12.5°  | 1126.9 | 1124.8 | 1122.8 | 1120.9 | 1118.8 | 1114.8 | 1108.8 | 1102.9 | 1096.9 | 1090.9 | 1089.6 |
| 15°    | 1104.8 | 1102.2 | 1099.6 | 1097.1 | 1094.5 | 1089.3 | 1081.3 | 1073.4 | 1065.4 | 1057.5 | 1053.0 |
| 17.5°  | 1077.7 | 1073.7 | 1069.8 | 1065.9 | 1062.0 | 1054.9 | 1044.7 | 1034.5 | 1024.4 | 1014.2 | 1008.9 |
| 20°    | 1057.5 | 1052.8 | 1048.1 | 1043.5 | 1038.8 | 1030.6 | 1018.9 | 1007.3 | 995.6  | 983.9  | 978.0  |
| 22.5°  | 1035.6 | 1030.4 | 1025.2 | 1019.9 | 1014.7 | 1005.5 | 992.3  | 979.1  | 966.0  | 952.8  | 945.2  |
| 25°    | 1002.8 | 995.4  | 987.9  | 980.4  | 973.0  | 961.5  | 946.0  | 930.7  | 915.2  | 899.8  | 890.3  |
| 27.5°  | 963.3  | 955.1  | 947.1  | 938.9  | 930.8  | 918.1  | 900.6  | 883.3  | 865.9  | 848.5  | 837.3  |
| 30°    | 935.6  | 926.7  | 917.8  | 908.9  | 900.1  | 886.3  | 867.6  | 848.9  | 830.2  | 811.5  | 799.6  |
| 32.5°  | 908.6  | 898.3  | 887.9  | 877.5  | 867.1  | 852.5  | 833.4  | 814.3  | 795.3  | 776.2  | 762.6  |
| 35°    | 864.0  | 852.2  | 840.3  | 828.3  | 816.4  | 800.2  | 779.6  | 759.1  | 738.6  | 718.0  | 703.2  |
| 37.5°  | 819.5  | 806.4  | 793.4  | 780.2  | 767.1  | 749.6  | 727.8  | 705.8  | 684.0  | 662.0  | 645.8  |
| 40°    | 788.4  | 774.4  | 760.3  | 746.3  | 732.3  | 714.0  | 691.3  | 668.7  | 646.0  | 623.4  | 606.7  |
| 42.5°  | 756.5  | 741.6  | 726.9  | 712.2  | 697.4  | 678.3  | 654.9  | 631.4  | 608.1  | 584.6  | 567.5  |
| 45°    | 706.4  | 690.7  | 675.1  | 659.4  | 643.8  | 623.7  | 599.2  | 574.6  | 550.1  | 525.6  | 509.0  |
| 47.5°  | 657.6  | 641.0  | 624.5  | 607.8  | 591.3  | 570.3  | 545.0  | 519.7  | 494.3  | 469.1  | 452.6  |
| 50°    | 622.3  | 605.7  | 589.1  | 572.5  | 556.0  | 534.8  | 509.1  | 483.4  | 457.7  | 432.1  | 415.9  |
| 52.5°  | 587.8  | 570.5  | 553.2  | 535.8  | 518.5  | 497.3  | 472.1  | 446.9  | 421.8  | 396.7  | 381.1  |
| 55°    | 537.2  | 519.0  | 500.7  | 482.5  | 464.3  | 442.5  | 417.3  | 392.1  | 366.9  | 341.7  | 327.6  |
| 57.5°  | 485.2  | 466.5  | 447.8  | 429.1  | 410.5  | 389.0  | 364.7  | 340.5  | 316.2  | 292.0  | 279.2  |
| 60°    | 449.9  | 431.2  | 412.6  | 393.9  | 375.2  | 353.8  | 329.7  | 305.6  | 281.6  | 257.5  | 245.7  |
| 62.5°  | 415.4  | 396.7  | 378.0  | 359.3  | 340.6  | 319.9  | 296.9  | 274.0  | 251.0  | 228.1  | 216.7  |
| 65°    | 362.7  | 343.7  | 324.8  | 305.9  | 287.0  | 267.0  | 246.0  | 225.0  | 203.9  | 182.9  | 175.0  |
| 67.5°  | 311.8  | 293.0  | 274.3  | 255.4  | 236.6  | 217.8  | 198.9  | 180.0  | 161.1  | 142.1  | 138.5  |
| 70°    | 276.5  | 258.3  | 240.0  | 221.8  | 203.6  | 186.4  | 170.3  | 154.2  | 138.1  | 121.9  | 119.6  |
| 72.5°  | 242.8  | 225.4  | 207.9  | 190.4  | 172.9  | 157.7  | 144.8  | 131.8  | 118.9  | 106.0  | 104.0  |
| 75°    | 193.5  | 177.1  | 160.7  | 144.3  | 128.0  | 115.9  | 107.9  | 100.0  | 92.1   | 84.1   | 82.5   |
| 77.5°  | 144.9  | 130.5  | 116.1  | 101.8  | 87.5   | 78.4   | 74.5   | 70.7   | 66.9   | 63.1   | 62.1   |
| 80°    | 114.5  | 102.7  | 90.8   | 78.8   | 66.9   | 59.8   | 57.4   | 55.1   | 52.8   | 50.5   | 49.5   |
| 82.5°  | 86.8   | 77.6   | 68.2   | 58.9   | 49.7   | 44.2   | 42.6   | 41.0   | 39.5   | 37.9   | 37.3   |
| 85°    | 45.2   | 40.3   | 35.4   | 30.5   | 25.6   | 22.8   | 22.1   | 21.4   | 20.7   | 20.0   | 20.0   |
| 87.5°  | 13.5   | 12.2   | 10.9   | 9.5    | 8.2    | 7.6    | 7.8    | 8.2    | 8.6    | 8.6    | 8.4    |
| 90°    | 0.3    | 1.1    | 2.2    | 2.8    | 3.3    | 4.2    | 5.6    | 7.5    | 9.3    | 9.5    | 9.3    |
| 92.5°  | 3.4    | 4.9    | 7.0    | 8.2    | 10.1   | 12.7   | 19.0   | 28.0   | 35.9   | 36.4   | 30.7   |
| 95°    | 9.8    | 10.9   | 13.7   | 16.2   | 20.7   | 27.4   | 40.3   | 64.6   | 97.1   | 109.7  | 96.0   |
| 97.5°  | 15.9   | 17.4   | 20.4   | 24.2   | 29.4   | 37.0   | 53.2   | 87.1   | 141.1  | 187.3  | 196.5  |
| 100°   | 21.5   | 22.4   | 24.9   | 29.4   | 35.0   | 42.9   | 57.7   | 91.8   | 152.3  | 221.1  | 261.4  |
| 102.5° | 26.7   | 27.3   | 29.9   | 34.3   | 40.2   | 48.0   | 61.7   | 92.1   | 148.0  | 222.2  | 285.6  |
| 105°   | 34.1   | 35.3   | 37.2   | 41.4   | 47.6   | 55.5   | 68.6   | 93.5   | 139.7  | 207.4  | 281.9  |
| 107.5° | 42.2   | 43.1   | 45.0   | 48.9   | 55.0   | 62.9   | 75.7   | 97.4   | 135.5  | 191.5  | 257.3  |
| 110°   | 47.6   | 48.7   | 50.4   | 54.0   | 59.9   | 68.0   | 80.3   | 100.4  | 134.7  | 183.9  | 241.9  |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 5°    | 10°   | 15°   | 20°   | 25°   | 30°   | 35°   | 40°   | 45°   | 50°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 52.5  | 53.6  | 55.5  | 58.9  | 64.6  | 73.0  | 84.8  | 103.9 | 134.8 | 179.0 | 231.1 |
| 115°   | 60.2  | 61.6  | 63.3  | 66.6  | 72.2  | 79.8  | 91.8  | 108.8 | 136.0 | 173.6 | 217.8 |
| 117.5° | 68.1  | 69.2  | 70.9  | 73.9  | 79.3  | 87.1  | 98.2  | 114.2 | 138.1 | 170.9 | 209.4 |
| 120°   | 73.0  | 74.1  | 75.9  | 78.3  | 84.0  | 91.8  | 102.7 | 117.9 | 139.4 | 169.4 | 204.9 |
| 122.5° | 77.8  | 78.7  | 80.3  | 83.1  | 88.6  | 96.7  | 106.9 | 121.0 | 140.9 | 168.4 | 201.1 |
| 125°   | 84.0  | 84.8  | 86.5  | 89.8  | 95.5  | 103.3 | 113.4 | 126.0 | 143.3 | 166.8 | 195.7 |
| 127.5° | 88.9  | 90.0  | 92.4  | 96.1  | 101.4 | 109.5 | 119.3 | 130.6 | 145.7 | 165.9 | 190.6 |
| 130°   | 91.8  | 92.9  | 95.7  | 99.7  | 105.3 | 113.0 | 122.9 | 133.5 | 147.5 | 165.4 | 187.3 |
| 132.5° | 94.5  | 95.9  | 98.9  | 103.0 | 108.8 | 116.7 | 126.0 | 136.4 | 149.3 | 165.2 | 184.6 |
| 135°   | 98.5  | 99.7  | 103.0 | 107.2 | 113.7 | 121.4 | 130.5 | 140.2 | 151.5 | 164.9 | 180.8 |
| 137.5° | 102.3 | 103.7 | 107.0 | 111.5 | 117.9 | 125.2 | 134.0 | 143.1 | 153.4 | 164.8 | 178.2 |
| 140°   | 105.3 | 106.4 | 109.7 | 114.2 | 120.3 | 127.6 | 136.0 | 144.7 | 154.2 | 164.6 | 176.6 |
| 142.5° | 108.1 | 109.1 | 112.2 | 116.7 | 122.6 | 129.4 | 137.6 | 146.1 | 154.9 | 164.6 | 175.1 |
| 145°   | 112.5 | 113.7 | 116.5 | 120.6 | 126.3 | 132.4 | 140.0 | 147.8 | 155.6 | 164.0 | 173.0 |
| 147.5° | 117.2 | 118.0 | 120.7 | 124.6 | 129.3 | 134.8 | 141.9 | 148.8 | 155.8 | 163.0 | 170.9 |
| 150°   | 120.3 | 121.2 | 123.4 | 127.1 | 131.3 | 136.3 | 142.8 | 149.2 | 155.6 | 162.3 | 169.1 |
| 152.5° | 123.5 | 123.9 | 126.1 | 129.3 | 133.3 | 137.8 | 143.6 | 149.4 | 155.2 | 161.2 | 167.5 |
| 155°   | 127.9 | 128.2 | 129.8 | 132.9 | 136.0 | 140.2 | 145.0 | 149.7 | 154.5 | 159.2 | 164.6 |
| 157.5° | 131.6 | 131.9 | 133.2 | 135.9 | 138.4 | 141.9 | 145.9 | 149.7 | 153.2 | 157.2 | 161.8 |
| 160°   | 134.0 | 134.4 | 135.5 | 137.7 | 140.0 | 143.1 | 146.4 | 149.7 | 152.6 | 155.9 | 159.8 |
| 162.5° | 136.6 | 136.3 | 137.5 | 139.3 | 141.3 | 143.7 | 146.6 | 149.5 | 151.9 | 154.8 | 158.0 |
| 165°   | 139.4 | 139.1 | 139.7 | 141.3 | 142.8 | 144.4 | 146.9 | 148.9 | 150.6 | 152.6 | 155.0 |
| 167.5° | 141.7 | 141.4 | 141.9 | 143.0 | 144.0 | 145.0 | 146.9 | 148.5 | 149.3 | 150.6 | 152.2 |
| 170°   | 143.3 | 142.8 | 143.1 | 143.9 | 144.4 | 145.3 | 146.6 | 148.1 | 148.6 | 149.5 | 150.6 |
| 172.5° | 144.2 | 143.9 | 143.7 | 144.6 | 144.9 | 145.5 | 146.5 | 147.4 | 147.7 | 148.1 | 149.0 |
| 175°   | 145.3 | 145.0 | 144.7 | 145.3 | 145.3 | 145.5 | 146.1 | 146.6 | 146.4 | 146.6 | 146.9 |
| 177.5° | 145.8 | 145.3 | 145.1 | 145.5 | 145.5 | 145.5 | 145.8 | 146.2 | 145.8 | 145.5 | 145.8 |
| 180°   | 145.5 | 145.5 | 145.5 | 145.5 | 145.5 | 145.5 | 145.5 | 145.5 | 145.5 | 145.5 | 145.5 |



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**CANDELA DISTRIBUTION (continued):**

|        | 55°    | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1161.6 | 1161.6 | 1161.6 | 1161.6 | 1161.6 | 1161.6 | 1161.6 | 1161.6 |
| 2.5°   | 1156.0 | 1157.9 | 1159.8 | 1160.5 | 1160.2 | 1159.8 | 1159.4 | 1159.0 |
| 5°     | 1146.8 | 1148.9 | 1151.0 | 1151.8 | 1151.0 | 1150.3 | 1149.6 | 1148.9 |
| 7.5°   | 1128.3 | 1128.9 | 1129.5 | 1129.2 | 1128.0 | 1126.8 | 1125.5 | 1124.3 |
| 10°    | 1109.7 | 1109.0 | 1108.3 | 1107.2 | 1105.8 | 1104.5 | 1103.0 | 1101.6 |
| 12.5°  | 1088.4 | 1087.1 | 1085.8 | 1084.1 | 1081.7 | 1079.4 | 1077.1 | 1074.8 |
| 15°    | 1048.6 | 1044.2 | 1039.7 | 1036.3 | 1034.0 | 1031.7 | 1029.4 | 1027.0 |
| 17.5°  | 1003.6 | 998.3  | 993.1  | 988.4  | 984.4  | 980.4  | 976.4  | 972.3  |
| 20°    | 972.2  | 966.4  | 960.5  | 955.1  | 949.9  | 944.8  | 939.6  | 934.5  |
| 22.5°  | 937.8  | 930.3  | 922.7  | 917.0  | 913.2  | 909.3  | 905.5  | 901.7  |
| 25°    | 880.7  | 871.1  | 861.5  | 854.9  | 851.4  | 848.0  | 844.5  | 841.0  |
| 27.5°  | 826.2  | 815.0  | 803.8  | 795.5  | 790.0  | 784.3  | 778.8  | 773.2  |
| 30°    | 787.7  | 775.8  | 763.8  | 754.7  | 748.5  | 742.1  | 735.9  | 729.5  |
| 32.5°  | 749.0  | 735.4  | 721.8  | 712.0  | 706.2  | 700.2  | 694.3  | 688.3  |
| 35°    | 688.5  | 673.8  | 659.1  | 649.2  | 644.0  | 638.9  | 633.7  | 628.6  |
| 37.5°  | 629.6  | 613.4  | 597.2  | 586.1  | 580.3  | 574.3  | 568.5  | 562.6  |
| 40°    | 590.2  | 573.6  | 557.0  | 545.7  | 539.6  | 533.5  | 527.4  | 521.4  |
| 42.5°  | 550.4  | 533.2  | 516.1  | 504.5  | 498.7  | 492.8  | 486.9  | 481.0  |
| 45°    | 492.4  | 475.9  | 459.2  | 448.1  | 442.5  | 437.0  | 431.3  | 425.7  |
| 47.5°  | 436.0  | 419.5  | 403.1  | 392.3  | 387.2  | 382.1  | 377.0  | 371.9  |
| 50°    | 399.8  | 383.7  | 367.6  | 357.0  | 352.1  | 347.2  | 342.3  | 337.4  |
| 52.5°  | 365.6  | 350.1  | 334.5  | 324.5  | 319.9  | 315.4  | 310.9  | 306.3  |
| 55°    | 313.6  | 299.6  | 285.6  | 276.3  | 271.9  | 267.4  | 263.0  | 258.6  |
| 57.5°  | 266.3  | 253.5  | 240.7  | 232.3  | 228.6  | 224.8  | 221.1  | 217.4  |
| 60°    | 233.7  | 221.8  | 209.8  | 202.1  | 198.3  | 194.6  | 190.8  | 187.1  |
| 62.5°  | 205.4  | 194.1  | 182.7  | 175.9  | 173.6  | 171.4  | 169.1  | 166.9  |
| 65°    | 167.0  | 159.1  | 151.1  | 146.8  | 146.1  | 145.4  | 144.7  | 144.0  |
| 67.5°  | 134.8  | 131.2  | 127.5  | 125.3  | 124.6  | 123.8  | 123.1  | 122.4  |
| 70°    | 117.2  | 114.9  | 112.6  | 111.0  | 110.0  | 109.1  | 108.1  | 107.2  |
| 72.5°  | 102.0  | 100.1  | 98.1   | 96.9   | 96.3   | 95.7   | 95.1   | 94.6   |
| 75°    | 80.8   | 79.2   | 77.6   | 76.6   | 76.4   | 76.1   | 75.9   | 75.7   |
| 77.5°  | 61.2   | 60.3   | 59.3   | 58.7   | 58.3   | 57.9   | 57.6   | 57.2   |
| 80°    | 48.6   | 47.7   | 46.7   | 46.3   | 46.3   | 46.3   | 46.3   | 46.3   |
| 82.5°  | 36.8   | 36.1   | 35.6   | 35.3   | 35.3   | 35.3   | 35.3   | 35.3   |
| 85°    | 20.0   | 20.0   | 20.0   | 20.0   | 20.0   | 20.0   | 20.0   | 20.0   |
| 87.5°  | 8.2    | 7.8    | 7.8    | 7.8    | 7.8    | 7.8    | 7.8    | 7.8    |
| 90°    | 9.0    | 8.4    | 9.0    | 9.3    | 9.3    | 9.3    | 9.3    | 9.3    |
| 92.5°  | 24.4   | 20.9   | 18.6   | 16.9   | 16.6   | 15.8   | 15.9   | 15.5   |
| 95°    | 73.4   | 56.2   | 44.5   | 38.3   | 34.7   | 32.5   | 31.6   | 31.9   |
| 97.5°  | 171.1  | 140.0  | 109.7  | 89.5   | 76.1   | 69.2   | 65.2   | 62.8   |
| 100°   | 255.6  | 220.9  | 182.5  | 148.6  | 125.4  | 113.4  | 105.3  | 100.2  |
| 102.5° | 310.9  | 303.0  | 275.0  | 239.1  | 213.8  | 193.3  | 183.2  | 176.3  |
| 105°   | 340.1  | 371.7  | 375.3  | 366.1  | 348.7  | 331.4  | 319.3  | 315.4  |
| 107.5° | 319.0  | 366.7  | 395.8  | 409.3  | 411.5  | 410.6  | 408.1  | 403.0  |
| 110°   | 300.9  | 351.0  | 386.8  | 409.8  | 421.8  | 427.1  | 429.7  | 429.4  |





TEST NUMBER: P331710-927

CATALOG NUMBER: S122RDIP-S865D330U927-4F0-1E-UDD-F4

**CANDELA DISTRIBUTION (continued):**

|        | 55°   | 60°   | 65°   | 70°   | 75°   | 80°   | 85°   | 90°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 284.3 | 332.4 | 370.7 | 397.0 | 413.8 | 422.6 | 427.4 | 428.9 |
| 115°   | 264.0 | 307.0 | 343.7 | 372.6 | 392.4 | 405.3 | 412.6 | 415.1 |
| 117.5° | 248.6 | 286.5 | 319.7 | 346.7 | 367.0 | 380.6 | 388.2 | 390.4 |
| 120°   | 241.0 | 275.7 | 305.4 | 330.8 | 350.5 | 363.6 | 371.7 | 374.5 |
| 122.5° | 235.0 | 266.7 | 294.9 | 317.8 | 335.4 | 348.4 | 355.6 | 357.9 |
| 125°   | 226.2 | 255.0 | 279.6 | 300.6 | 316.9 | 327.5 | 334.5 | 336.8 |
| 127.5° | 217.5 | 243.6 | 266.8 | 286.1 | 300.3 | 310.3 | 316.3 | 318.1 |
| 130°   | 211.9 | 236.0 | 258.1 | 276.6 | 290.3 | 299.8 | 305.4 | 307.6 |
| 132.5° | 206.5 | 228.8 | 249.1 | 266.5 | 280.0 | 289.5 | 294.6 | 296.7 |
| 135°   | 199.0 | 217.5 | 236.0 | 251.6 | 263.6 | 272.9 | 278.0 | 279.1 |
| 137.5° | 193.1 | 208.5 | 223.2 | 236.8 | 247.8 | 255.7 | 260.2 | 261.8 |
| 140°   | 189.2 | 202.6 | 215.6 | 227.8 | 236.8 | 244.1 | 248.3 | 249.9 |
| 142.5° | 186.1 | 197.5 | 208.6 | 218.9 | 227.4 | 234.0 | 237.7 | 238.1 |
| 145°   | 181.6 | 190.9 | 199.6 | 207.7 | 214.4 | 219.2 | 222.0 | 222.8 |
| 147.5° | 178.2 | 185.5 | 192.3 | 198.2 | 203.7 | 207.6 | 209.5 | 210.0 |
| 150°   | 175.8 | 182.0 | 187.8 | 192.8 | 197.0 | 200.4 | 202.1 | 202.4 |
| 152.5° | 173.3 | 179.0 | 184.0 | 188.4 | 191.7 | 194.6 | 195.8 | 195.9 |
| 155°   | 169.9 | 174.4 | 178.6 | 181.6 | 184.7 | 186.7 | 187.8 | 187.3 |
| 157.5° | 166.0 | 169.7 | 173.2 | 175.6 | 177.8 | 179.4 | 179.9 | 179.9 |
| 160°   | 163.4 | 166.5 | 169.6 | 171.6 | 173.6 | 174.9 | 175.2 | 175.2 |
| 162.5° | 161.0 | 163.7 | 166.3 | 167.8 | 169.8 | 170.7 | 171.0 | 170.7 |
| 165°   | 157.3 | 159.2 | 161.2 | 162.3 | 163.4 | 164.6 | 164.6 | 164.3 |
| 167.5° | 153.8 | 155.3 | 156.6 | 157.6 | 158.1 | 158.8 | 158.7 | 158.4 |
| 170°   | 152.0 | 152.8 | 153.9 | 154.5 | 154.8 | 155.6 | 155.3 | 154.8 |
| 172.5° | 150.0 | 150.6 | 151.5 | 151.8 | 152.1 | 152.5 | 152.2 | 151.9 |
| 175°   | 147.8 | 148.1 | 148.4 | 148.6 | 148.6 | 148.9 | 148.6 | 148.1 |
| 177.5° | 146.2 | 146.2 | 146.5 | 146.5 | 146.5 | 146.5 | 146.2 | 145.8 |
| 180°   | 145.5 | 145.5 | 145.5 | 145.5 | 145.5 | 145.5 | 145.5 | 145.5 |

(END OF REPORT)