

Scaled data based on original data using  
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions

Brand: NEO-RAY

Report Number: P646619

Luminaire Tested: S123DR-S1000D935-X4F0-XX-UDD-G-W

Issue Date: 3/20/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P646619  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2301-905-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/20/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S123DR-S1000D935-X4F0-XX-UDD-G-W  
Description: DEFINE 3 DIRECT RECESSED WITH WALL GRAZE FLUSH OPTIC  
STANDARD LIGHT ENGINE  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3801.8 lumens  
Efficiency: N/A  
Efficacy: 110.2 lumens/watt  
Spacing Criteria (0/90/45): 0.65 / 1.19 / 0.89  
Luminous Opening: Rectangular (W 4' x L: 0.22' x H: 0')  
CIE Type: Direct

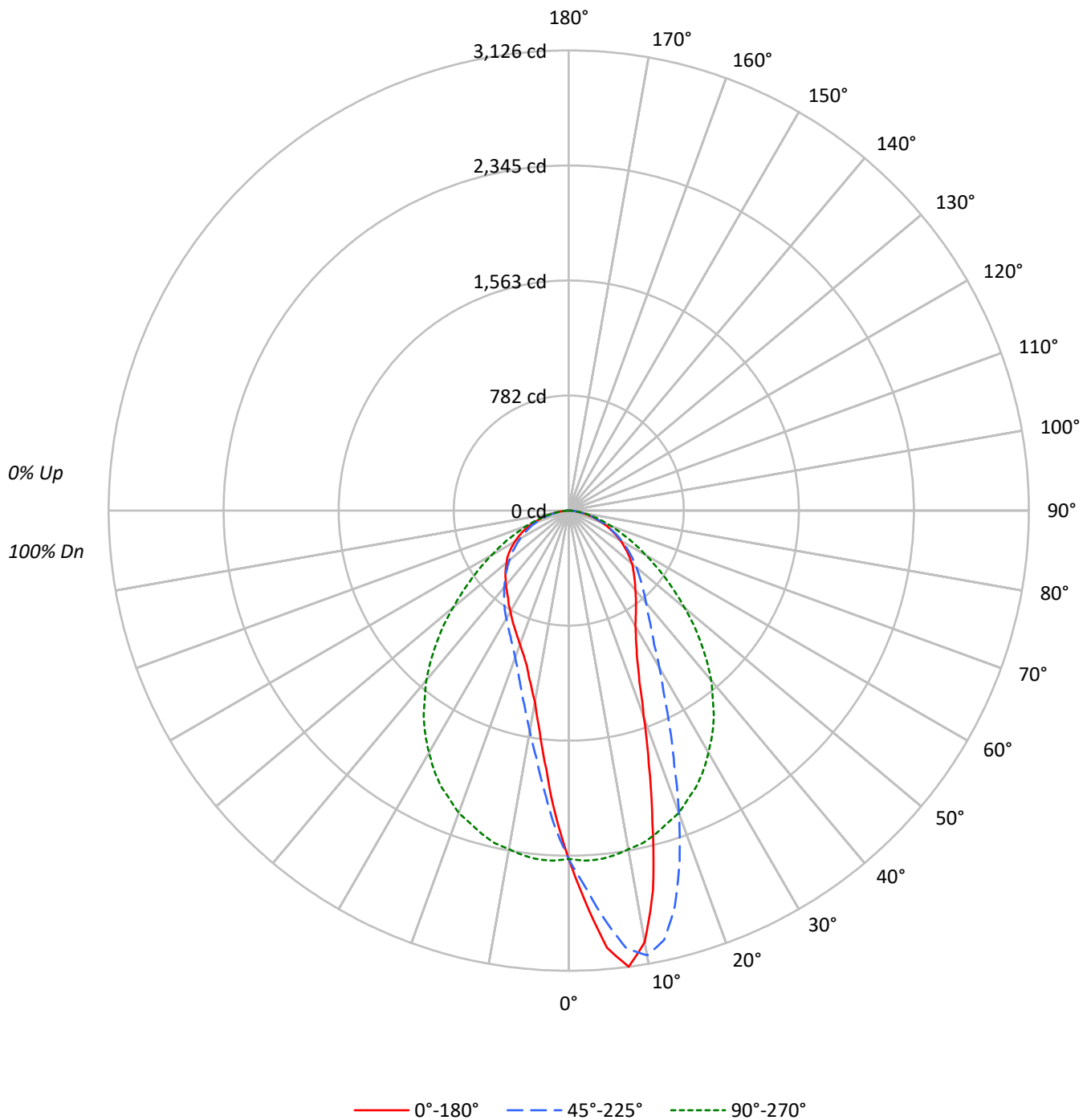
Input Watts (W): 34.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



TEST NUMBER: P646619

CATALOG NUMBER: S123DR-S1000D935-X4F0-XX-UDD-G-W

### Luminous Intensity Polar Plot





TEST NUMBER: P646619

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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  | 50  | 30 | 10 | 50 | 30 | 10 |  |  |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |    |    |    |  |  |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |    |    |    |    |    |  |  |
| 1   | 110 | 106 | 102 | 98  | 107 | 103 | 100 | 97  | 99  | 96  | 94  | 95  | 93  | 91  | 92  | 90  | 88  | 86  |    |    |    |    |    |  |  |
| 2   | 101 | 94  | 88  | 82  | 99  | 92  | 86  | 82  | 88  | 84  | 80  | 85  | 81  | 78  | 82  | 79  | 76  | 74  |    |    |    |    |    |  |  |
| 3   | 93  | 84  | 76  | 70  | 91  | 82  | 75  | 70  | 79  | 73  | 69  | 77  | 72  | 67  | 74  | 70  | 66  | 64  |    |    |    |    |    |  |  |
| 4   | 86  | 75  | 67  | 61  | 84  | 74  | 67  | 61  | 72  | 65  | 60  | 69  | 64  | 59  | 67  | 62  | 58  | 56  |    |    |    |    |    |  |  |
| 5   | 80  | 68  | 60  | 54  | 78  | 67  | 59  | 54  | 65  | 58  | 53  | 63  | 57  | 52  | 61  | 56  | 52  | 50  |    |    |    |    |    |  |  |
| 6   | 74  | 62  | 54  | 48  | 73  | 61  | 53  | 48  | 60  | 53  | 47  | 58  | 52  | 47  | 56  | 51  | 47  | 45  |    |    |    |    |    |  |  |
| 7   | 70  | 57  | 49  | 43  | 68  | 56  | 49  | 43  | 55  | 48  | 43  | 53  | 47  | 43  | 52  | 47  | 42  | 40  |    |    |    |    |    |  |  |
| 8   | 65  | 53  | 45  | 39  | 64  | 52  | 44  | 39  | 51  | 44  | 39  | 49  | 43  | 39  | 48  | 43  | 39  | 37  |    |    |    |    |    |  |  |
| 9   | 61  | 49  | 41  | 36  | 60  | 48  | 41  | 36  | 47  | 40  | 36  | 46  | 40  | 36  | 45  | 40  | 35  | 34  |    |    |    |    |    |  |  |
| 10  | 58  | 45  | 38  | 33  | 57  | 45  | 38  | 33  | 44  | 37  | 33  | 43  | 37  | 33  | 42  | 37  | 33  | 31  |    |    |    |    |    |  |  |

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

|     | 0°    | 45°   | 90°   | 135°  | 180°  |
|-----|-------|-------|-------|-------|-------|
| 0°  | 28511 | 28511 | 28511 | 28511 | 28511 |
| 5°  | 36056 | 33719 | 28765 | 23068 | 21302 |
| 10° | 36405 | 37535 | 28574 | 18633 | 16148 |
| 15° | 27421 | 34734 | 28379 | 15614 | 13656 |
| 20° | 19105 | 28088 | 28017 | 13615 | 12403 |
| 25° | 14568 | 21546 | 27399 | 12481 | 11634 |
| 30° | 12603 | 17124 | 26413 | 11793 | 11014 |
| 35° | 11692 | 14342 | 25275 | 11241 | 10579 |
| 40° | 11070 | 12832 | 23677 | 10724 | 10432 |
| 45° | 10701 | 11918 | 21648 | 10272 | 10365 |
| 50° | 10518 | 11258 | 19244 | 9879  | 10312 |
| 55° | 10125 | 10634 | 16883 | 9527  | 10356 |
| 60° | 9765  | 10054 | 14553 | 9181  | 10186 |
| 65° | 9172  | 9423  | 12553 | 8796  | 9987  |
| 70° | 8473  | 8740  | 10675 | 8318  | 9399  |
| 75° | 7668  | 7924  | 9148  | 7616  | 8589  |
| 80° | 6321  | 6779  | 7237  | 6627  | 7237  |
| 85° | 5005  | 5461  | 5309  | 5765  | 5765  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle:  $80^\circ$

Vertical Angle:  $45^\circ$

Luminance: 24715 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 223.7  | 5.9       |
| 10°-20°   | 556.6  | 14.6      |
| 20°-30°   | 658.8  | 17.3      |
| 30°-40°   | 662.1  | 17.4      |
| 40°-50°   | 607.2  | 16.0      |
| 50°-60°   | 501.2  | 13.2      |
| 60°-70°   | 354.7  | 9.3       |
| 70°-80°   | 189.4  | 5.0       |
| 80°-90°   | 48.1   | 1.3       |
| 90°-100°  | 0.0    | 0.0       |
| 100°-110° | 0.0    | 0.0       |
| 110°-120° | 0.0    | 0.0       |
| 120°-130° | 0.0    | 0.0       |
| 130°-140° | 0.0    | 0.0       |
| 140°-150° | 0.0    | 0.0       |
| 150°-160° | 0.0    | 0.0       |
| 160°-170° | 0.0    | 0.0       |
| 170°-180° | 0.0    | 0.0       |
| 0°-30°    | 1439.1 | 37.9      |
| 0°-40°    | 2101.2 | 55.3      |
| 0°-60°    | 3209.6 | 84.4      |
| 0°-90°    | 3801.8 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 3801.8 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45°  | 90°  | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0°  | 2366 | 2366 | 2366 | 2366 | 2366 |      |
| 5°  | 2981 | 2788 | 2378 | 1907 | 1761 | 284  |
| 15° | 2198 | 2784 | 2275 | 1252 | 1095 | 607  |
| 25° | 1096 | 1621 | 2061 | 939  | 875  | 517  |
| 35° | 795  | 975  | 1718 | 764  | 719  | 499  |
| 45° | 628  | 699  | 1270 | 603  | 608  | 486  |
| 55° | 482  | 506  | 804  | 454  | 493  | 431  |
| 65° | 322  | 330  | 440  | 308  | 350  | 320  |
| 75° | 165  | 170  | 196  | 164  | 184  | 173  |
| 85° | 36   | 40   | 38   | 42   | 42   | 43   |
| 90° | 0    | 0    | 0    | 0    | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 10°    | 20°    | 22.5°  | 30°    | 40°    | 45°    | 50°    | 60°    | 67.5°  | 70°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2366.2 | 2366.2 | 2366.2 | 2366.2 | 2366.2 | 2366.2 | 2366.2 | 2366.2 | 2366.2 | 2366.2 | 2366.2 |
| 2.5°  | 2667.0 | 2661.5 | 2634.1 | 2616.5 | 2620.9 | 2581.4 | 2557.2 | 2537.4 | 2524.3 | 2492.4 | 2476.0 |
| 5°    | 2981.0 | 2996.4 | 2978.8 | 2970.1 | 2925.0 | 2853.7 | 2787.8 | 2773.5 | 2712.0 | 2636.3 | 2609.9 |
| 7.5°  | 3126.0 | 3134.7 | 3123.8 | 3123.8 | 3109.5 | 3045.8 | 2999.7 | 2963.5 | 2858.1 | 2760.3 | 2715.3 |
| 10°   | 2975.5 | 2995.3 | 3038.1 | 3057.9 | 3086.4 | 3077.7 | 3067.8 | 3053.5 | 2982.1 | 2869.0 | 2817.4 |
| 12.5° | 2645.0 | 2669.2 | 2754.8 | 2766.9 | 2864.6 | 2959.1 | 2989.8 | 3024.9 | 3031.5 | 2936.0 | 2880.0 |
| 15°   | 2198.2 | 2265.1 | 2343.1 | 2380.4 | 2504.5 | 2703.2 | 2784.5 | 2880.0 | 2993.1 | 2953.6 | 2909.7 |
| 17.5° | 1810.6 | 1835.8 | 1919.3 | 1998.3 | 2122.4 | 2351.9 | 2502.3 | 2645.0 | 2887.7 | 2927.2 | 2899.8 |
| 20°   | 1490.0 | 1513.0 | 1622.8 | 1617.3 | 1782.0 | 2040.1 | 2190.5 | 2355.2 | 2713.1 | 2841.6 | 2836.1 |
| 22.5° | 1251.7 | 1287.9 | 1349.4 | 1383.5 | 1502.0 | 1731.5 | 1874.3 | 2079.6 | 2514.4 | 2717.5 | 2739.5 |
| 25°   | 1095.8 | 1122.1 | 1159.5 | 1189.1 | 1281.3 | 1470.2 | 1620.6 | 1789.7 | 2264.0 | 2555.0 | 2609.9 |
| 27.5° | 989.3  | 1000.3 | 1037.6 | 1055.2 | 1116.7 | 1279.2 | 1395.5 | 1550.4 | 2032.4 | 2372.7 | 2449.6 |
| 30°   | 905.8  | 913.5  | 946.5  | 952.0  | 1000.3 | 1117.7 | 1230.8 | 1357.1 | 1806.2 | 2185.0 | 2272.8 |
| 32.5° | 847.6  | 853.1  | 878.4  | 880.6  | 916.8  | 1002.5 | 1081.5 | 1200.1 | 1592.1 | 1984.1 | 2092.8 |
| 35°   | 794.9  | 798.2  | 816.9  | 822.4  | 845.4  | 910.2  | 975.0  | 1066.1 | 1421.9 | 1802.9 | 1922.6 |
| 37.5° | 748.8  | 753.2  | 764.2  | 770.8  | 789.5  | 841.1  | 885.0  | 960.7  | 1258.3 | 1614.0 | 1746.9 |
| 40°   | 703.8  | 711.5  | 719.2  | 719.2  | 740.0  | 779.6  | 815.8  | 878.4  | 1117.7 | 1449.3 | 1566.8 |
| 42.5° | 665.4  | 673.1  | 676.4  | 677.5  | 688.4  | 724.7  | 755.4  | 798.2  | 1011.2 | 1303.3 | 1418.6 |
| 45°   | 628.0  | 631.3  | 634.6  | 636.8  | 644.5  | 676.4  | 699.4  | 740.0  | 910.2  | 1168.3 | 1280.3 |
| 47.5° | 594.0  | 594.0  | 596.2  | 599.5  | 605.0  | 628.0  | 647.8  | 677.5  | 823.5  | 1047.5 | 1139.7 |
| 50°   | 561.1  | 561.1  | 557.8  | 560.0  | 563.3  | 580.8  | 600.6  | 624.8  | 742.2  | 936.6  | 1018.9 |
| 52.5° | 521.5  | 521.5  | 522.6  | 519.3  | 522.6  | 538.0  | 553.4  | 577.5  | 673.1  | 834.5  | 904.7  |
| 55°   | 482.0  | 486.4  | 483.1  | 480.9  | 485.3  | 495.2  | 506.2  | 527.0  | 608.3  | 753.2  | 809.2  |
| 57.5° | 442.5  | 444.7  | 443.6  | 446.9  | 444.7  | 453.5  | 463.3  | 477.6  | 550.1  | 662.1  | 714.8  |
| 60°   | 405.2  | 405.2  | 403.0  | 405.2  | 405.2  | 409.5  | 417.2  | 431.5  | 490.8  | 584.1  | 628.0  |
| 62.5° | 363.4  | 364.5  | 365.6  | 364.5  | 363.4  | 368.9  | 375.5  | 385.4  | 439.2  | 508.4  | 541.3  |
| 65°   | 321.7  | 322.8  | 326.1  | 325.0  | 323.9  | 329.4  | 330.5  | 341.5  | 382.1  | 441.4  | 465.5  |
| 67.5° | 284.4  | 282.2  | 283.3  | 285.5  | 286.6  | 287.7  | 289.9  | 300.8  | 329.4  | 377.7  | 397.5  |
| 70°   | 240.5  | 242.7  | 241.6  | 244.9  | 242.7  | 245.9  | 248.1  | 255.8  | 283.3  | 315.1  | 328.3  |
| 72.5° | 200.9  | 202.0  | 202.0  | 205.3  | 204.2  | 207.5  | 209.7  | 213.0  | 232.8  | 261.3  | 266.8  |
| 75°   | 164.7  | 164.7  | 166.9  | 168.0  | 168.0  | 168.0  | 170.2  | 172.4  | 188.9  | 206.4  | 211.9  |
| 77.5° | 125.2  | 130.7  | 129.6  | 130.7  | 131.8  | 135.1  | 132.9  | 137.2  | 147.1  | 157.0  | 160.3  |
| 80°   | 91.1   | 91.1   | 92.2   | 93.3   | 95.5   | 97.7   | 97.7   | 102.1  | 106.5  | 112.0  | 115.3  |
| 82.5° | 58.2   | 59.3   | 62.6   | 63.7   | 64.8   | 68.1   | 68.1   | 68.1   | 73.6   | 75.8   | 75.8   |
| 85°   | 36.2   | 34.0   | 36.2   | 37.3   | 38.4   | 39.5   | 39.5   | 41.7   | 42.8   | 43.9   | 43.9   |
| 87.5° | 17.6   | 17.6   | 17.6   | 17.6   | 18.7   | 18.7   | 18.7   | 18.7   | 19.8   | 19.8   | 19.8   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

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**CANDELA DISTRIBUTION (continued):**

|       | 80°    | 90°    | 100°   | 110°   | 112.5° | 120°   | 130°   | 135°   | 140°   | 150°   | 157.5° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2366.2 | 2366.2 | 2366.2 | 2366.2 | 2366.2 | 2366.2 | 2366.2 | 2366.2 | 2366.2 | 2366.2 | 2366.2 |
| 2.5°  | 2421.1 | 2380.4 | 2320.0 | 2270.6 | 2272.8 | 2227.8 | 2194.9 | 2152.1 | 2138.9 | 2125.7 | 2108.1 |
| 5°    | 2471.6 | 2378.2 | 2253.1 | 2153.1 | 2122.4 | 2047.7 | 1953.3 | 1907.2 | 1879.8 | 1831.4 | 1812.8 |
| 7.5°  | 2534.2 | 2362.9 | 2171.8 | 2015.9 | 1981.9 | 1857.8 | 1745.8 | 1690.9 | 1639.3 | 1605.3 | 1563.5 |
| 10°   | 2574.8 | 2335.4 | 2089.5 | 1883.0 | 1850.1 | 1708.5 | 1562.4 | 1522.9 | 1458.1 | 1416.4 | 1376.9 |
| 12.5° | 2605.5 | 2314.6 | 2004.9 | 1764.5 | 1710.7 | 1573.4 | 1426.3 | 1372.5 | 1325.3 | 1264.9 | 1236.3 |
| 15°   | 2633.0 | 2275.0 | 1918.2 | 1640.4 | 1584.4 | 1436.2 | 1300.0 | 1251.7 | 1208.9 | 1156.2 | 1130.9 |
| 17.5° | 2623.1 | 2226.7 | 1822.7 | 1530.6 | 1474.6 | 1328.6 | 1197.9 | 1143.0 | 1114.5 | 1068.3 | 1050.8 |
| 20°   | 2611.0 | 2185.0 | 1732.6 | 1426.3 | 1364.8 | 1228.6 | 1101.3 | 1061.8 | 1033.2 | 1003.6 | 988.2  |
| 22.5° | 2572.6 | 2119.1 | 1641.5 | 1330.8 | 1272.6 | 1136.4 | 1027.7 | 994.8  | 972.8  | 952.0  | 938.8  |
| 25°   | 2507.8 | 2060.9 | 1552.6 | 1235.2 | 1189.1 | 1061.8 | 969.5  | 938.8  | 924.5  | 903.6  | 891.6  |
| 27.5° | 2427.6 | 1984.1 | 1463.6 | 1157.3 | 1104.6 | 991.5  | 912.4  | 892.7  | 877.3  | 860.8  | 848.7  |
| 30°   | 2326.6 | 1898.4 | 1376.9 | 1081.5 | 1033.2 | 933.3  | 865.2  | 847.6  | 833.4  | 816.9  | 802.6  |
| 32.5° | 2198.2 | 1811.7 | 1295.6 | 1011.2 | 970.6  | 883.9  | 821.3  | 807.0  | 794.9  | 775.2  | 767.5  |
| 35°   | 2054.3 | 1718.3 | 1215.5 | 944.3  | 905.8  | 830.1  | 778.5  | 764.2  | 752.1  | 735.7  | 729.1  |
| 37.5° | 1908.3 | 1607.5 | 1136.4 | 887.2  | 853.1  | 785.1  | 735.7  | 721.4  | 710.4  | 696.1  | 692.8  |
| 40°   | 1753.5 | 1505.3 | 1058.5 | 829.0  | 799.3  | 741.1  | 692.8  | 681.8  | 670.9  | 662.1  | 659.9  |
| 42.5° | 1597.6 | 1387.9 | 990.4  | 780.7  | 748.8  | 695.0  | 651.1  | 639.0  | 632.4  | 628.0  | 629.1  |
| 45°   | 1450.4 | 1270.4 | 920.1  | 724.7  | 702.7  | 653.3  | 612.7  | 602.8  | 597.3  | 594.0  | 598.4  |
| 47.5° | 1291.2 | 1150.7 | 854.2  | 677.5  | 655.5  | 611.6  | 573.1  | 564.4  | 562.2  | 561.1  | 568.8  |
| 50°   | 1150.7 | 1026.6 | 782.9  | 629.1  | 610.5  | 565.5  | 534.7  | 527.0  | 524.8  | 528.1  | 539.1  |
| 52.5° | 1017.8 | 911.3  | 718.1  | 584.1  | 565.5  | 524.8  | 496.3  | 490.8  | 489.7  | 497.4  | 508.4  |
| 55°   | 886.1  | 803.7  | 647.8  | 534.7  | 516.1  | 480.9  | 459.0  | 453.5  | 452.4  | 467.7  | 477.6  |
| 57.5° | 774.1  | 699.4  | 581.9  | 487.5  | 473.2  | 440.3  | 420.5  | 416.1  | 419.4  | 433.7  | 443.6  |
| 60°   | 664.3  | 603.9  | 521.5  | 437.0  | 426.0  | 397.5  | 382.1  | 381.0  | 384.3  | 400.8  | 410.6  |
| 62.5° | 565.5  | 519.3  | 456.8  | 390.9  | 383.2  | 357.9  | 343.7  | 345.9  | 349.2  | 365.6  | 374.4  |
| 65°   | 480.9  | 440.3  | 393.1  | 344.8  | 334.9  | 317.3  | 307.4  | 308.5  | 315.1  | 329.4  | 338.2  |
| 67.5° | 398.6  | 365.6  | 339.3  | 300.8  | 293.2  | 277.8  | 270.1  | 274.5  | 277.8  | 292.1  | 300.8  |
| 70°   | 329.4  | 303.0  | 283.3  | 254.7  | 249.2  | 236.1  | 230.6  | 236.1  | 239.4  | 251.4  | 262.4  |
| 72.5° | 264.6  | 248.1  | 232.8  | 211.9  | 206.4  | 197.6  | 196.5  | 198.7  | 204.2  | 216.3  | 220.7  |
| 75°   | 205.3  | 196.5  | 183.4  | 170.2  | 166.9  | 162.5  | 161.4  | 163.6  | 169.1  | 175.7  | 180.1  |
| 77.5° | 155.9  | 148.2  | 138.3  | 132.9  | 128.5  | 126.3  | 127.4  | 130.7  | 132.9  | 139.4  | 142.7  |
| 80°   | 113.1  | 104.3  | 102.1  | 94.4   | 93.3   | 92.2   | 94.4   | 95.5   | 98.8   | 103.2  | 105.4  |
| 82.5° | 74.7   | 68.1   | 65.9   | 64.8   | 63.7   | 62.6   | 65.9   | 67.0   | 69.2   | 72.5   | 73.6   |
| 85°   | 40.6   | 38.4   | 38.4   | 37.3   | 38.4   | 40.6   | 40.6   | 41.7   | 41.7   | 42.8   | 41.7   |
| 87.5° | 18.7   | 16.5   | 17.6   | 17.6   | 17.6   | 18.7   | 18.7   | 19.8   | 19.8   | 19.8   | 18.7   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |



TEST NUMBER: P646619

CATALOG NUMBER: S123DR-S1000D935-X4F0-XX-UDD-G-W

**CANDELA DISTRIBUTION (continued):**

|       | 160°   | 170°   | 180°   |
|-------|--------|--------|--------|
| 0°    | 2366.2 | 2366.2 | 2366.2 |
| 2.5°  | 2107.0 | 2099.3 | 2068.6 |
| 5°    | 1796.3 | 1770.0 | 1761.2 |
| 7.5°  | 1559.1 | 1556.9 | 1510.8 |
| 10°   | 1358.2 | 1361.5 | 1319.8 |
| 12.5° | 1231.9 | 1204.5 | 1201.2 |
| 15°   | 1124.3 | 1099.1 | 1094.7 |
| 17.5° | 1044.2 | 1028.8 | 1024.4 |
| 20°   | 983.8  | 975.0  | 967.3  |
| 22.5° | 935.5  | 924.5  | 917.9  |
| 25°   | 887.2  | 877.3  | 875.1  |
| 27.5° | 845.4  | 833.4  | 833.4  |
| 30°   | 802.6  | 794.9  | 791.6  |
| 32.5° | 764.2  | 757.6  | 757.6  |
| 35°   | 726.9  | 723.6  | 719.2  |
| 37.5° | 692.8  | 692.8  | 690.6  |
| 40°   | 659.9  | 663.2  | 663.2  |
| 42.5° | 631.3  | 634.6  | 634.6  |
| 45°   | 600.6  | 606.1  | 608.3  |
| 47.5° | 569.9  | 578.6  | 580.8  |
| 50°   | 542.4  | 549.0  | 550.1  |
| 52.5° | 512.8  | 520.4  | 525.9  |
| 55°   | 482.0  | 489.7  | 493.0  |
| 57.5° | 449.1  | 456.8  | 457.9  |
| 60°   | 412.8  | 420.5  | 422.7  |
| 62.5° | 379.9  | 384.3  | 386.5  |
| 65°   | 339.3  | 345.9  | 350.3  |
| 67.5° | 301.9  | 307.4  | 307.4  |
| 70°   | 261.3  | 263.5  | 266.8  |
| 72.5° | 222.9  | 224.0  | 224.0  |
| 75°   | 181.2  | 183.4  | 184.5  |
| 77.5° | 142.7  | 143.8  | 143.8  |
| 80°   | 105.4  | 104.3  | 104.3  |
| 82.5° | 73.6   | 70.3   | 70.3   |
| 85°   | 41.7   | 40.6   | 41.7   |
| 87.5° | 18.7   | 18.7   | 18.7   |
| 90°   | 0.0    | 0.0    | 0.0    |

(END OF REPORT)