

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: P331479-927

Luminaire Tested: **S122DIW-S290D970U927-4F0-1E-UDD-D**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331479-927
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-2,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S122DIW-S290D970U927-4F0-1E-UDD-D
Description: DEFINE 2 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 290 LUMENS PER FOOT, DROP SATIN WHITE DIFFUSER
UPLIGHT 970 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4015.6 lumens
Efficiency: N/A
Efficacy: 105.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.32 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.08')
CIE Type: Semi-Indirect

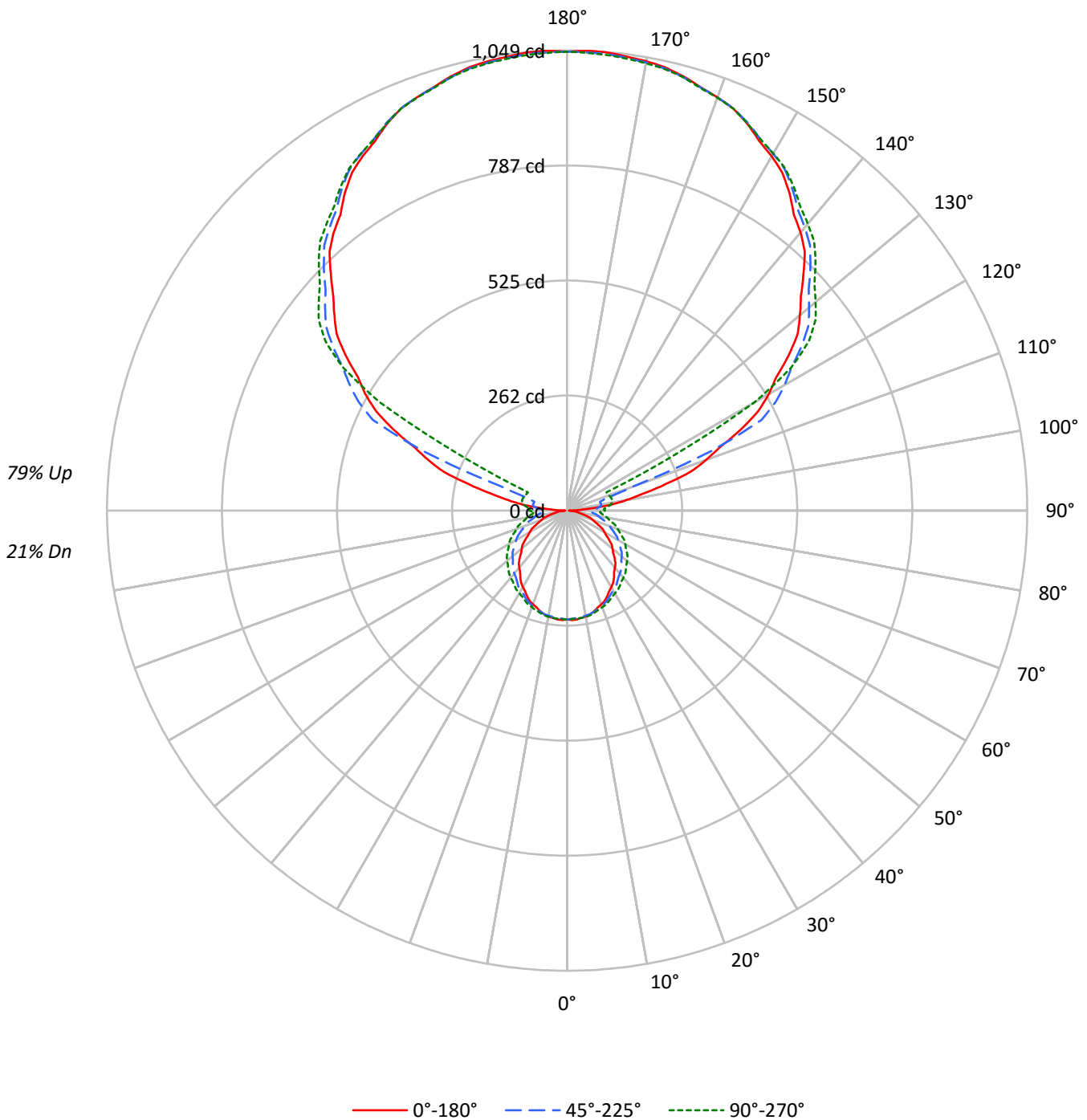
Input Watts (W): 38
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P331479-927

CATALOG NUMBER: S122DIW-S290D970U927-4F0-1E-UDD-D

Luminous Intensity Polar Plot





TEST NUMBER: P331479-927

CATALOG NUMBER: S122DIW-S290D970U927-4F0-1E-UDD-D

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 | 100 | 100 | 100 | 100 | 89 | 89 | 89 | 89 | 67 | 67 | 67 | 48 | 48 | 48 | 30 | 30 | 30 | 21 |
| 1 | 91 | 86 | 82 | 79 | 80 | 76 | 73 | 70 | 58 | 56 | 54 | 41 | 39 | 38 | 25 | 24 | 24 | 16 |
| 2 | 82 | 75 | 69 | 64 | 72 | 66 | 61 | 57 | 50 | 47 | 44 | 35 | 33 | 31 | 22 | 20 | 19 | 13 |
| 3 | 75 | 66 | 58 | 53 | 66 | 58 | 52 | 47 | 44 | 40 | 36 | 31 | 28 | 26 | 19 | 17 | 16 | 11 |
| 4 | 68 | 58 | 50 | 44 | 60 | 51 | 45 | 40 | 39 | 34 | 31 | 27 | 24 | 22 | 17 | 15 | 14 | 9 |
| 5 | 62 | 51 | 43 | 37 | 55 | 45 | 39 | 34 | 35 | 30 | 26 | 24 | 21 | 19 | 15 | 13 | 12 | 8 |
| 6 | 57 | 46 | 38 | 32 | 50 | 41 | 34 | 29 | 31 | 26 | 23 | 22 | 19 | 16 | 14 | 12 | 10 | 7 |
| 7 | 53 | 41 | 33 | 28 | 46 | 36 | 30 | 25 | 28 | 23 | 20 | 20 | 17 | 14 | 12 | 10 | 9 | 6 |
| 8 | 49 | 37 | 29 | 24 | 43 | 33 | 26 | 22 | 25 | 21 | 17 | 18 | 15 | 13 | 11 | 9 | 8 | 5 |
| 9 | 45 | 34 | 26 | 21 | 40 | 30 | 24 | 19 | 23 | 18 | 15 | 16 | 13 | 11 | 10 | 8 | 7 | 5 |
| 10 | 42 | 31 | 24 | 19 | 37 | 27 | 21 | 17 | 21 | 17 | 14 | 15 | 12 | 10 | 10 | 8 | 6 | 4 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 4009 | 4009 | 4009 |
| 5° | 4030 | 3859 | 3845 |
| 10° | 4004 | 3746 | 3703 |
| 15° | 3948 | 3624 | 3554 |
| 20° | 3878 | 3495 | 3410 |
| 25° | 3809 | 3371 | 3279 |
| 30° | 3712 | 3242 | 3150 |
| 35° | 3615 | 3118 | 3059 |
| 40° | 3511 | 3013 | 2965 |
| 45° | 3413 | 2919 | 2886 |
| 50° | 3309 | 2833 | 2810 |
| 55° | 3196 | 2741 | 2731 |
| 60° | 3061 | 2646 | 2648 |
| 65° | 2922 | 2534 | 2548 |
| 70° | 2764 | 2415 | 2440 |
| 75° | 2564 | 2299 | 2342 |
| 80° | 2245 | 2177 | 2240 |
| 85° | 1945 | 2073 | 2163 |



TEST NUMBER: P331479-927

CATALOG NUMBER: S122DIW-S290D970U927-4F0-1E-UDD-D

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 23.5 | 0.6 |
| 10°-20° | 67.5 | 1.7 |
| 20°-30° | 102.2 | 2.5 |
| 30°-40° | 124.5 | 3.1 |
| 40°-50° | 134.0 | 3.3 |
| 50°-60° | 130.1 | 3.2 |
| 60°-70° | 113.6 | 2.8 |
| 70°-80° | 87.5 | 2.2 |
| 80°-90° | 61.3 | 1.5 |
| 90°-100° | 75.3 | 1.9 |
| 100°-110° | 157.5 | 3.9 |
| 110°-120° | 361.6 | 9.0 |
| 120°-130° | 575.5 | 14.3 |
| 130°-140° | 605.1 | 15.1 |
| 140°-150° | 558.9 | 13.9 |
| 150°-160° | 448.7 | 11.2 |
| 160°-170° | 289.2 | 7.2 |
| 170°-180° | 99.5 | 2.5 |
| 0°-30° | 193.2 | 4.8 |
| 0°-40° | 317.8 | 7.9 |
| 0°-60° | 581.9 | 14.5 |
| 0°-90° | 844.2 | 21.0 |
| 90°-120° | 594.4 | 14.8 |
| 90°-150° | 2333.9 | 58.1 |
| 90°-180° | 3171.0 | 79.0 |
| 0°-180° | 4015.6 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 248 | 248 | 248 | 248 | 248 | |
| 5° | 249 | 248 | 246 | 248 | 248 | 24 |
| 15° | 238 | 238 | 238 | 241 | 241 | 67 |
| 25° | 216 | 218 | 222 | 226 | 227 | 99 |
| 35° | 186 | 192 | 199 | 207 | 210 | 116 |
| 45° | 153 | 162 | 175 | 186 | 190 | 118 |
| 55° | 117 | 130 | 149 | 161 | 166 | 105 |
| 65° | 80 | 98 | 119 | 133 | 138 | 79 |
| 75° | 44 | 65 | 88 | 102 | 108 | 47 |
| 85° | 13 | 35 | 58 | 73 | 78 | 14 |
| 90° | 4 | 34 | 63 | 80 | 87 | 5 |
| 95° | 52 | 46 | 71 | 88 | 92 | 62 |
| 105° | 232 | 253 | 77 | 97 | 105 | 248 |
| 115° | 437 | 454 | 489 | 165 | 98 | 430 |
| 125° | 616 | 627 | 652 | 666 | 672 | 549 |
| 135° | 762 | 774 | 784 | 799 | 801 | 588 |
| 145° | 883 | 883 | 896 | 902 | 901 | 552 |
| 155° | 973 | 967 | 975 | 979 | 973 | 448 |
| 165° | 1025 | 1021 | 1023 | 1027 | 1023 | 289 |
| 175° | 1048 | 1043 | 1045 | 1049 | 1042 | 100 |
| 180° | 1046 | 1046 | 1046 | 1046 | 1046 | |



TEST NUMBER: P331479-927

CATALOG NUMBER: S122DIW-S290D970U927-4F0-1E-UDD-D

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 248.3 | 248.3 | 248.3 | 248.3 | 248.3 | 248.3 | 248.3 | 248.3 | 248.3 | 248.3 | 248.3 |
| 2.5° | 249.8 | 249.5 | 249.4 | 249.1 | 249.0 | 248.7 | 248.2 | 247.8 | 247.3 | 246.8 | 247.2 |
| 5° | 249.1 | 248.8 | 248.6 | 248.3 | 248.0 | 247.7 | 247.2 | 246.8 | 246.3 | 245.8 | 246.3 |
| 7.5° | 246.8 | 246.6 | 246.4 | 246.3 | 246.1 | 245.9 | 245.5 | 245.2 | 244.8 | 244.4 | 245.0 |
| 10° | 245.1 | 244.9 | 244.8 | 244.6 | 244.5 | 244.2 | 244.0 | 243.8 | 243.5 | 243.3 | 243.9 |
| 12.5° | 242.2 | 242.2 | 242.2 | 242.3 | 242.3 | 242.2 | 242.1 | 241.9 | 241.7 | 241.5 | 242.2 |
| 15° | 237.5 | 237.7 | 237.8 | 238.0 | 238.1 | 238.2 | 238.2 | 238.2 | 238.2 | 238.2 | 238.9 |
| 17.5° | 231.5 | 231.8 | 232.1 | 232.5 | 232.8 | 233.1 | 233.4 | 233.6 | 233.9 | 234.2 | 234.9 |
| 20° | 227.4 | 227.8 | 228.2 | 228.6 | 229.0 | 229.4 | 229.7 | 230.0 | 230.4 | 230.7 | 231.6 |
| 22.5° | 223.2 | 223.6 | 224.0 | 224.5 | 225.0 | 225.5 | 225.9 | 226.3 | 226.8 | 227.2 | 228.1 |
| 25° | 215.9 | 216.5 | 217.1 | 217.6 | 218.2 | 218.8 | 219.5 | 220.2 | 220.9 | 221.7 | 222.6 |
| 27.5° | 207.3 | 208.2 | 209.1 | 210.0 | 211.0 | 211.8 | 212.6 | 213.5 | 214.4 | 215.2 | 216.4 |
| 30° | 201.5 | 202.6 | 203.6 | 204.6 | 205.7 | 206.8 | 207.8 | 208.8 | 209.8 | 210.9 | 212.1 |
| 32.5° | 195.2 | 196.4 | 197.5 | 198.7 | 199.9 | 201.1 | 202.3 | 203.5 | 204.8 | 206.0 | 207.5 |
| 35° | 186.1 | 187.4 | 188.8 | 190.1 | 191.5 | 192.9 | 194.5 | 196.0 | 197.5 | 199.0 | 200.7 |
| 37.5° | 176.1 | 177.7 | 179.3 | 180.9 | 182.4 | 184.2 | 186.2 | 188.1 | 190.0 | 192.0 | 194.0 |
| 40° | 169.5 | 171.3 | 173.0 | 174.8 | 176.5 | 178.5 | 180.6 | 182.8 | 185.0 | 187.1 | 189.2 |
| 42.5° | 163.2 | 164.9 | 166.7 | 168.4 | 170.2 | 172.3 | 174.8 | 177.3 | 179.7 | 182.2 | 184.5 |
| 45° | 152.6 | 154.7 | 156.9 | 159.1 | 161.2 | 163.7 | 166.5 | 169.3 | 172.1 | 174.9 | 177.4 |
| 47.5° | 142.1 | 144.5 | 146.9 | 149.2 | 151.5 | 154.4 | 157.6 | 160.9 | 164.2 | 167.5 | 170.1 |
| 50° | 135.0 | 137.4 | 139.9 | 142.4 | 144.9 | 147.9 | 151.5 | 155.1 | 158.7 | 162.3 | 165.0 |
| 52.5° | 128.0 | 130.6 | 133.2 | 135.9 | 138.5 | 141.6 | 145.4 | 149.2 | 153.0 | 156.9 | 159.6 |
| 55° | 116.9 | 119.9 | 122.7 | 125.6 | 128.5 | 132.0 | 136.2 | 140.3 | 144.5 | 148.6 | 151.5 |
| 57.5° | 106.0 | 109.2 | 112.5 | 115.7 | 119.0 | 122.7 | 127.0 | 131.2 | 135.5 | 139.7 | 142.8 |
| 60° | 98.2 | 101.7 | 105.1 | 108.5 | 112.0 | 116.0 | 120.6 | 125.1 | 129.7 | 134.2 | 137.3 |
| 62.5° | 91.3 | 94.9 | 98.5 | 102.0 | 105.6 | 109.6 | 114.2 | 118.7 | 123.3 | 127.9 | 131.1 |
| 65° | 79.9 | 83.8 | 87.7 | 91.7 | 95.5 | 99.9 | 104.6 | 109.3 | 114.1 | 118.7 | 122.1 |
| 67.5° | 69.4 | 73.5 | 77.6 | 81.7 | 85.8 | 90.2 | 95.1 | 99.9 | 104.7 | 109.6 | 112.9 |
| 70° | 61.9 | 66.1 | 70.2 | 74.4 | 78.5 | 83.1 | 88.0 | 93.0 | 98.0 | 102.9 | 106.4 |
| 72.5° | 55.0 | 59.3 | 63.5 | 67.8 | 72.2 | 76.8 | 81.8 | 86.8 | 91.9 | 96.9 | 100.3 |
| 75° | 44.3 | 48.7 | 53.2 | 57.7 | 62.2 | 66.9 | 72.1 | 77.2 | 82.3 | 87.5 | 90.9 |
| 77.5° | 33.9 | 38.6 | 43.3 | 47.9 | 52.7 | 57.6 | 62.8 | 68.0 | 73.2 | 78.3 | 81.8 |
| 80° | 27.0 | 31.8 | 36.8 | 41.6 | 46.5 | 51.6 | 56.7 | 61.9 | 67.1 | 72.3 | 75.7 |
| 82.5° | 21.2 | 26.1 | 30.9 | 35.6 | 40.5 | 45.6 | 50.8 | 56.1 | 61.3 | 66.5 | 69.9 |
| 85° | 13.0 | 17.9 | 22.9 | 27.8 | 32.8 | 37.8 | 42.9 | 48.1 | 53.2 | 58.3 | 61.6 |
| 87.5° | 7.2 | 12.4 | 17.5 | 22.6 | 27.7 | 33.0 | 38.4 | 43.8 | 49.2 | 54.6 | 58.0 |
| 90° | 4.4 | 10.9 | 17.3 | 23.8 | 30.3 | 36.8 | 43.3 | 49.7 | 56.2 | 62.7 | 66.7 |
| 92.5° | 18.6 | 22.7 | 26.9 | 31.1 | 35.2 | 40.1 | 45.7 | 51.3 | 56.9 | 62.5 | 66.1 |
| 95° | 52.0 | 50.3 | 48.5 | 46.7 | 44.9 | 47.0 | 53.0 | 58.9 | 65.0 | 70.9 | 74.8 |
| 97.5° | 100.1 | 87.9 | 75.6 | 63.3 | 50.9 | 48.5 | 55.8 | 63.1 | 70.5 | 77.8 | 81.4 |
| 100° | 136.5 | 116.5 | 96.3 | 76.2 | 56.2 | 49.7 | 57.1 | 64.5 | 71.8 | 79.1 | 83.4 |
| 102.5° | 176.2 | 174.0 | 171.8 | 169.7 | 167.5 | 156.6 | 137.0 | 117.5 | 97.9 | 78.3 | 82.9 |
| 105° | 232.0 | 239.3 | 246.6 | 254.0 | 261.3 | 244.2 | 202.4 | 160.7 | 118.9 | 77.2 | 81.8 |
| 107.5° | 295.9 | 301.8 | 307.8 | 313.6 | 319.6 | 297.0 | 245.9 | 194.8 | 143.7 | 92.6 | 93.5 |
| 110° | 336.8 | 341.9 | 347.1 | 352.2 | 357.3 | 337.5 | 292.8 | 248.1 | 203.4 | 158.8 | 144.5 |



TEST NUMBER: P331479-927

CATALOG NUMBER: S122DIW-S290D970U927-4F0-1E-UDD-D

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 375.5 | 380.0 | 384.4 | 389.0 | 393.4 | 391.5 | 383.3 | 374.9 | 366.6 | 358.4 | 299.6 |
| 115° | 436.7 | 440.5 | 444.2 | 447.9 | 451.6 | 457.4 | 465.2 | 473.0 | 480.9 | 488.6 | 413.1 |
| 117.5° | 491.0 | 494.7 | 498.5 | 502.3 | 506.0 | 511.0 | 517.3 | 523.5 | 529.7 | 535.9 | 519.4 |
| 120° | 530.9 | 533.8 | 536.6 | 539.5 | 542.3 | 546.8 | 553.1 | 559.3 | 565.5 | 571.8 | 576.0 |
| 122.5° | 564.8 | 567.7 | 570.5 | 573.2 | 576.0 | 580.5 | 586.8 | 593.2 | 599.4 | 605.8 | 609.2 |
| 125° | 616.2 | 618.3 | 620.5 | 622.7 | 624.9 | 628.8 | 634.6 | 640.3 | 646.1 | 651.9 | 655.2 |
| 127.5° | 662.9 | 665.3 | 667.6 | 669.9 | 672.2 | 675.7 | 680.1 | 684.6 | 689.0 | 693.5 | 697.2 |
| 130° | 692.6 | 695.2 | 697.8 | 700.4 | 703.1 | 706.1 | 709.6 | 713.1 | 716.7 | 720.2 | 724.0 |
| 132.5° | 722.9 | 725.1 | 727.3 | 729.4 | 731.7 | 734.4 | 737.5 | 740.7 | 743.8 | 746.9 | 750.4 |
| 135° | 761.8 | 764.5 | 767.2 | 769.9 | 772.6 | 775.2 | 777.4 | 779.7 | 782.0 | 784.4 | 787.7 |
| 137.5° | 801.7 | 803.5 | 805.4 | 807.3 | 809.1 | 811.1 | 813.2 | 815.2 | 817.3 | 819.4 | 822.5 |
| 140° | 827.8 | 828.9 | 830.2 | 831.5 | 832.7 | 834.4 | 836.4 | 838.4 | 840.4 | 842.5 | 845.3 |
| 142.5° | 849.5 | 850.6 | 851.8 | 852.9 | 854.1 | 855.7 | 857.9 | 860.0 | 862.1 | 864.3 | 866.7 |
| 145° | 883.4 | 883.2 | 883.0 | 882.9 | 882.7 | 884.1 | 886.9 | 889.8 | 892.6 | 895.5 | 897.1 |
| 147.5° | 913.2 | 912.5 | 911.9 | 911.2 | 910.6 | 911.7 | 914.6 | 917.3 | 920.2 | 923.1 | 924.0 |
| 150° | 932.6 | 931.4 | 930.2 | 929.1 | 927.9 | 928.6 | 931.3 | 934.0 | 936.7 | 939.4 | 940.4 |
| 152.5° | 949.0 | 947.6 | 946.3 | 945.0 | 943.6 | 944.3 | 946.8 | 949.4 | 952.0 | 954.5 | 955.5 |
| 155° | 972.7 | 971.1 | 969.6 | 968.1 | 966.6 | 966.9 | 968.9 | 970.9 | 973.0 | 974.9 | 976.0 |
| 157.5° | 991.3 | 990.1 | 988.7 | 987.5 | 986.2 | 986.3 | 987.7 | 989.1 | 990.5 | 991.9 | 993.1 |
| 160° | 1002.2 | 1001.2 | 1000.2 | 999.2 | 998.1 | 998.1 | 999.2 | 1000.2 | 1001.2 | 1002.2 | 1003.2 |
| 162.5° | 1011.9 | 1010.9 | 1009.9 | 1008.8 | 1007.9 | 1007.8 | 1008.7 | 1009.6 | 1010.4 | 1011.3 | 1012.4 |
| 165° | 1024.9 | 1023.9 | 1022.9 | 1021.9 | 1020.9 | 1020.6 | 1021.1 | 1021.6 | 1022.2 | 1022.6 | 1023.8 |
| 167.5° | 1034.6 | 1033.6 | 1032.6 | 1031.6 | 1030.5 | 1030.3 | 1030.8 | 1031.3 | 1031.7 | 1032.2 | 1033.3 |
| 170° | 1040.1 | 1039.0 | 1038.1 | 1037.0 | 1036.0 | 1035.7 | 1036.0 | 1036.3 | 1036.7 | 1037.0 | 1038.2 |
| 172.5° | 1043.7 | 1042.7 | 1041.6 | 1040.7 | 1039.7 | 1039.3 | 1039.7 | 1040.0 | 1040.3 | 1040.7 | 1041.9 |
| 175° | 1048.4 | 1047.2 | 1046.0 | 1044.9 | 1043.7 | 1043.2 | 1043.6 | 1043.9 | 1044.3 | 1044.6 | 1045.8 |
| 177.5° | 1049.2 | 1048.2 | 1047.3 | 1046.3 | 1045.4 | 1045.0 | 1045.1 | 1045.2 | 1045.4 | 1045.5 | 1046.5 |
| 180° | 1046.1 | 1046.1 | 1046.1 | 1046.1 | 1046.1 | 1046.1 | 1046.1 | 1046.1 | 1046.1 | 1046.1 | 1046.1 |



TEST NUMBER: P331479-927

CATALOG NUMBER: S122DIW-S290D970U927-4F0-1E-UDD-D

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 248.3 | 248.3 | 248.3 | 248.3 | 248.3 | 248.3 | 248.3 | 248.3 |
| 2.5° | 247.5 | 247.8 | 248.1 | 248.3 | 248.1 | 248.0 | 247.9 | 247.7 |
| 5° | 246.8 | 247.2 | 247.7 | 247.9 | 247.8 | 247.7 | 247.6 | 247.6 |
| 7.5° | 245.6 | 246.1 | 246.8 | 247.0 | 246.9 | 246.8 | 246.8 | 246.7 |
| 10° | 244.5 | 245.2 | 245.8 | 246.1 | 246.1 | 246.0 | 245.9 | 245.8 |
| 12.5° | 242.8 | 243.4 | 244.1 | 244.4 | 244.3 | 244.2 | 244.2 | 244.1 |
| 15° | 239.6 | 240.4 | 241.1 | 241.5 | 241.4 | 241.3 | 241.2 | 241.1 |
| 17.5° | 235.7 | 236.4 | 237.1 | 237.5 | 237.5 | 237.5 | 237.5 | 237.5 |
| 20° | 232.4 | 233.3 | 234.2 | 234.6 | 234.6 | 234.6 | 234.6 | 234.6 |
| 22.5° | 229.0 | 229.9 | 230.8 | 231.2 | 231.4 | 231.5 | 231.6 | 231.8 |
| 25° | 223.6 | 224.6 | 225.5 | 226.1 | 226.3 | 226.6 | 226.8 | 227.0 |
| 27.5° | 217.6 | 218.9 | 220.1 | 220.8 | 220.9 | 221.1 | 221.3 | 221.5 |
| 30° | 213.4 | 214.8 | 216.0 | 216.7 | 217.0 | 217.2 | 217.5 | 217.7 |
| 32.5° | 208.9 | 210.4 | 211.9 | 212.9 | 213.3 | 213.7 | 214.1 | 214.5 |
| 35° | 202.6 | 204.3 | 206.0 | 207.2 | 207.8 | 208.3 | 208.9 | 209.5 |
| 37.5° | 195.9 | 197.9 | 199.9 | 201.1 | 201.7 | 202.3 | 202.9 | 203.4 |
| 40° | 191.3 | 193.4 | 195.4 | 196.9 | 197.6 | 198.3 | 199.0 | 199.7 |
| 42.5° | 186.8 | 189.0 | 191.3 | 192.8 | 193.5 | 194.2 | 195.0 | 195.7 |
| 45° | 179.8 | 182.4 | 184.8 | 186.5 | 187.3 | 188.1 | 188.9 | 189.6 |
| 47.5° | 172.7 | 175.2 | 177.8 | 179.6 | 180.5 | 181.3 | 182.2 | 183.1 |
| 50° | 167.7 | 170.5 | 173.2 | 175.0 | 175.9 | 176.7 | 177.6 | 178.5 |
| 52.5° | 162.4 | 165.2 | 167.9 | 169.8 | 170.8 | 171.7 | 172.7 | 173.6 |
| 55° | 154.4 | 157.2 | 160.2 | 162.1 | 163.1 | 164.2 | 165.2 | 166.3 |
| 57.5° | 145.9 | 149.0 | 152.1 | 154.2 | 155.3 | 156.3 | 157.3 | 158.4 |
| 60° | 140.3 | 143.4 | 146.4 | 148.5 | 149.6 | 150.7 | 151.9 | 153.0 |
| 62.5° | 134.4 | 137.6 | 140.9 | 143.0 | 144.0 | 145.0 | 146.2 | 147.2 |
| 65° | 125.3 | 128.6 | 131.9 | 134.0 | 135.1 | 136.1 | 137.1 | 138.2 |
| 67.5° | 116.1 | 119.5 | 122.8 | 125.0 | 126.0 | 127.1 | 128.3 | 129.4 |
| 70° | 109.8 | 113.2 | 116.7 | 118.9 | 119.9 | 120.8 | 121.8 | 122.7 |
| 72.5° | 103.6 | 107.0 | 110.4 | 112.6 | 113.8 | 114.9 | 116.1 | 117.2 |
| 75° | 94.3 | 97.8 | 101.2 | 103.5 | 104.5 | 105.5 | 106.5 | 107.6 |
| 77.5° | 85.2 | 88.6 | 92.1 | 94.3 | 95.5 | 96.6 | 97.7 | 98.8 |
| 80° | 79.1 | 82.4 | 85.8 | 88.0 | 89.1 | 90.2 | 91.3 | 92.4 |
| 82.5° | 73.3 | 76.7 | 80.0 | 82.2 | 83.3 | 84.4 | 85.4 | 86.4 |
| 85° | 65.0 | 68.4 | 71.8 | 74.0 | 75.1 | 76.2 | 77.3 | 78.4 |
| 87.5° | 61.4 | 64.9 | 68.3 | 70.6 | 71.6 | 72.7 | 73.8 | 74.9 |
| 90° | 70.7 | 74.8 | 78.8 | 81.4 | 82.8 | 84.1 | 85.4 | 86.7 |
| 92.5° | 69.6 | 73.2 | 76.8 | 79.1 | 80.3 | 81.4 | 82.6 | 83.8 |
| 95° | 78.7 | 82.5 | 86.4 | 88.7 | 89.5 | 90.3 | 91.1 | 91.9 |
| 97.5° | 85.1 | 88.7 | 92.4 | 94.7 | 95.9 | 97.0 | 98.2 | 99.3 |
| 100° | 87.8 | 92.1 | 96.3 | 99.1 | 100.3 | 101.6 | 102.7 | 104.0 |
| 102.5° | 87.6 | 92.3 | 96.9 | 99.9 | 101.2 | 102.6 | 103.9 | 105.3 |
| 105° | 86.4 | 91.1 | 95.7 | 98.8 | 100.4 | 102.0 | 103.5 | 105.0 |
| 107.5° | 94.3 | 95.1 | 95.9 | 97.0 | 98.5 | 100.1 | 101.7 | 103.2 |
| 110° | 130.2 | 116.0 | 101.7 | 95.3 | 96.9 | 98.5 | 100.0 | 101.6 |



TEST NUMBER: P331479-927

CATALOG NUMBER: S122DIW-S290D970U927-4F0-1E-UDD-D

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 240.7 | 182.0 | 123.2 | 94.4 | 95.9 | 97.3 | 98.7 | 100.1 |
| 115° | 337.6 | 262.2 | 186.7 | 143.3 | 132.1 | 120.9 | 109.6 | 98.4 |
| 117.5° | 503.0 | 486.6 | 470.1 | 442.4 | 403.4 | 364.3 | 325.3 | 286.4 |
| 120° | 580.3 | 584.6 | 588.8 | 580.0 | 558.2 | 536.4 | 514.5 | 492.7 |
| 122.5° | 612.5 | 615.9 | 619.3 | 619.2 | 615.5 | 611.9 | 608.2 | 604.5 |
| 125° | 658.5 | 661.9 | 665.2 | 667.5 | 668.7 | 669.9 | 671.1 | 672.4 |
| 127.5° | 700.8 | 704.6 | 708.3 | 710.5 | 711.3 | 712.2 | 713.0 | 713.8 |
| 130° | 727.8 | 731.5 | 735.3 | 737.4 | 737.9 | 738.4 | 738.8 | 739.3 |
| 132.5° | 753.8 | 757.2 | 760.7 | 762.6 | 763.1 | 763.6 | 764.1 | 764.5 |
| 135° | 791.1 | 794.5 | 797.8 | 799.6 | 799.9 | 800.3 | 800.6 | 800.9 |
| 137.5° | 825.6 | 828.8 | 831.9 | 833.4 | 833.4 | 833.4 | 833.3 | 833.3 |
| 140° | 848.0 | 850.8 | 853.7 | 854.8 | 854.4 | 854.1 | 853.7 | 853.4 |
| 142.5° | 869.1 | 871.5 | 873.9 | 874.9 | 874.5 | 874.0 | 873.6 | 873.2 |
| 145° | 898.8 | 900.5 | 902.1 | 902.7 | 902.3 | 901.8 | 901.4 | 900.9 |
| 147.5° | 924.9 | 925.8 | 926.8 | 927.0 | 926.5 | 926.0 | 925.4 | 925.0 |
| 150° | 941.4 | 942.4 | 943.4 | 943.5 | 942.7 | 941.8 | 941.0 | 940.2 |
| 152.5° | 956.6 | 957.5 | 958.5 | 958.5 | 957.4 | 956.3 | 955.2 | 954.1 |
| 155° | 977.0 | 977.9 | 979.0 | 978.8 | 977.5 | 976.1 | 974.8 | 973.4 |
| 157.5° | 994.2 | 995.4 | 996.5 | 996.4 | 995.1 | 993.8 | 992.4 | 991.2 |
| 160° | 1004.2 | 1005.2 | 1006.2 | 1006.2 | 1005.0 | 1003.8 | 1002.7 | 1001.5 |
| 162.5° | 1013.6 | 1014.7 | 1015.9 | 1015.7 | 1014.2 | 1012.8 | 1011.4 | 1010.0 |
| 165° | 1025.0 | 1026.2 | 1027.4 | 1027.4 | 1026.2 | 1025.0 | 1023.8 | 1022.6 |
| 167.5° | 1034.5 | 1035.7 | 1036.9 | 1036.7 | 1035.2 | 1033.7 | 1032.2 | 1030.7 |
| 170° | 1039.4 | 1040.5 | 1041.7 | 1041.6 | 1040.1 | 1038.6 | 1037.0 | 1035.5 |
| 172.5° | 1043.0 | 1044.2 | 1045.4 | 1045.2 | 1043.7 | 1042.2 | 1040.7 | 1039.2 |
| 175° | 1046.9 | 1048.1 | 1049.3 | 1049.1 | 1047.3 | 1045.7 | 1044.0 | 1042.4 |
| 177.5° | 1047.4 | 1048.3 | 1049.2 | 1049.2 | 1047.9 | 1046.7 | 1045.5 | 1044.3 |
| 180° | 1046.1 | 1046.1 | 1046.1 | 1046.1 | 1046.1 | 1046.1 | 1046.1 | 1046.1 |

(END OF REPORT)