

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: P331270-840

Luminaire Tested: **S122DIP-S290D925U840-4F0-1E-UDD-D**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331270-840
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: S122DIP-S290D925U840-4F0-1E-UDD-D
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 290 LUMENS PER FOOT, DROP SATIN WHITE DIFFUSER
UPLIGHT 925 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4946.1 lumens
Efficiency: N/A
Efficacy: 132.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.08')
CIE Type: Semi-Indirect

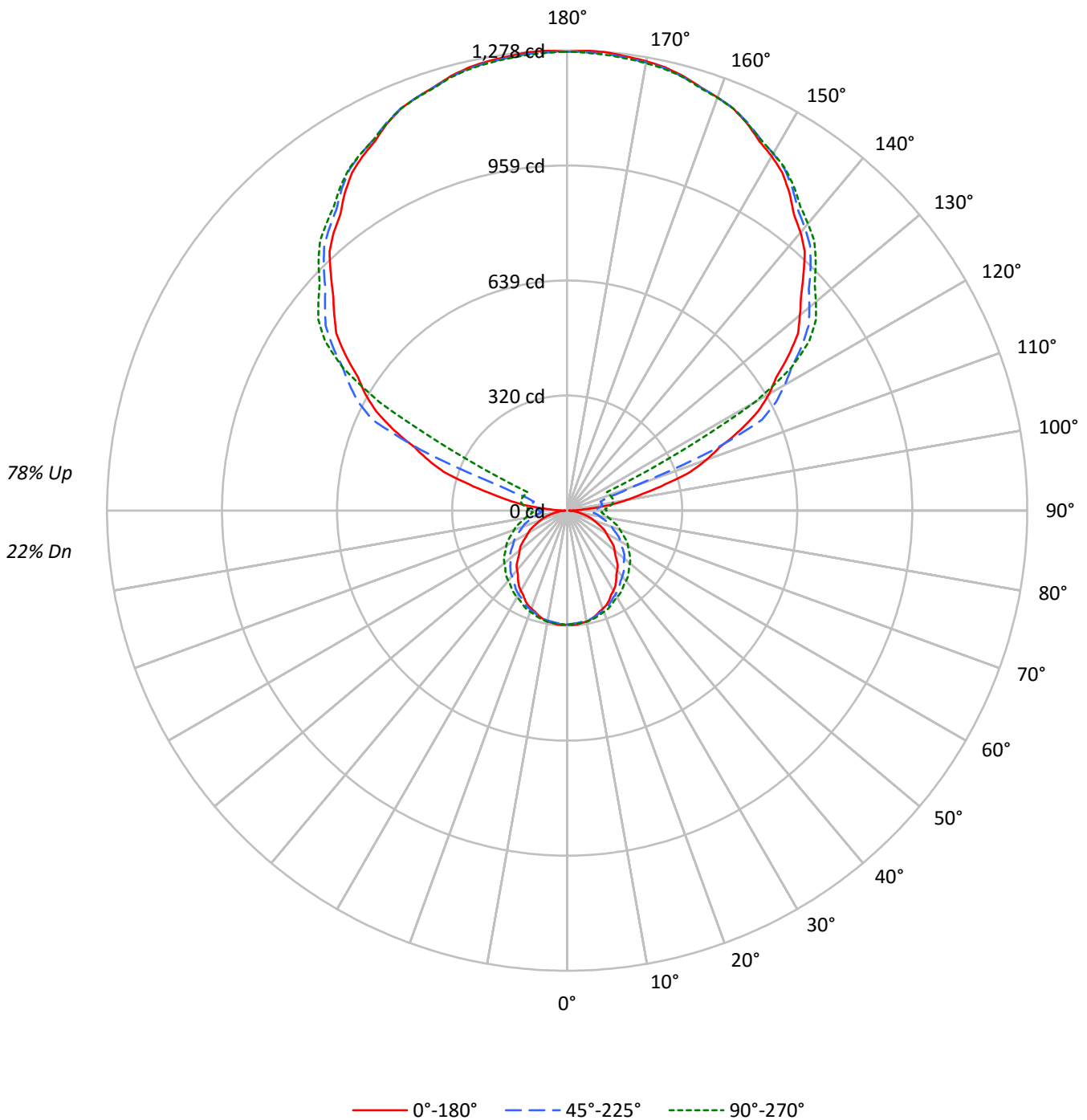
Input Watts (W): 37.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P331270-840

CATALOG NUMBER: S122DIP-S290D925U840-4F0-1E-UDD-D

Luminous Intensity Polar Plot





TEST NUMBER: P331270-840

CATALOG NUMBER: S122DIP-S290D925U840-4F0-1E-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 | 68 | 68 | 68 | 48 | 48 | 48 | 30 | 30 | 30 | 22 |
| 1 | 91 | 86 | 82 | 79 | 80 | 77 | 73 | 70 | 58 | 56 | 54 | 41 | 40 | 39 | 26 | 25 | 24 | 17 |
| 2 | 82 | 75 | 69 | 64 | 73 | 66 | 61 | 57 | 50 | 47 | 44 | 36 | 34 | 32 | 22 | 21 | 20 | 14 |
| 3 | 75 | 66 | 58 | 53 | 66 | 58 | 52 | 47 | 44 | 40 | 37 | 31 | 29 | 26 | 19 | 18 | 17 | 11 |
| 4 | 68 | 58 | 50 | 44 | 60 | 51 | 45 | 40 | 39 | 34 | 31 | 28 | 25 | 22 | 17 | 15 | 14 | 9 |
| 5 | 62 | 51 | 43 | 37 | 55 | 45 | 39 | 34 | 35 | 30 | 26 | 25 | 22 | 19 | 15 | 14 | 12 | 8 |
| 6 | 57 | 46 | 38 | 32 | 50 | 41 | 34 | 29 | 31 | 26 | 23 | 22 | 19 | 17 | 14 | 12 | 10 | 7 |
| 7 | 53 | 41 | 33 | 28 | 47 | 37 | 30 | 25 | 28 | 23 | 20 | 20 | 17 | 14 | 13 | 11 | 9 | 6 |
| 8 | 49 | 37 | 29 | 24 | 43 | 33 | 26 | 22 | 25 | 21 | 17 | 18 | 15 | 13 | 11 | 10 | 8 | 6 |
| 9 | 45 | 34 | 26 | 21 | 40 | 30 | 24 | 19 | 23 | 19 | 15 | 17 | 14 | 11 | 11 | 9 | 7 | 5 |
| 10 | 42 | 31 | 24 | 19 | 37 | 27 | 21 | 17 | 21 | 17 | 14 | 15 | 12 | 10 | 10 | 8 | 7 | 4 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 5112 | 5112 | 5112 |
| 5° | 5137 | 4921 | 4901 |
| 10° | 5105 | 4774 | 4722 |
| 15° | 5033 | 4621 | 4531 |
| 20° | 4944 | 4456 | 4348 |
| 25° | 4857 | 4297 | 4181 |
| 30° | 4733 | 4133 | 4015 |
| 35° | 4608 | 3975 | 3898 |
| 40° | 4476 | 3840 | 3780 |
| 45° | 4351 | 3721 | 3681 |
| 50° | 4218 | 3612 | 3581 |
| 55° | 4076 | 3496 | 3482 |
| 60° | 3902 | 3373 | 3374 |
| 65° | 3723 | 3232 | 3247 |
| 70° | 3523 | 3079 | 3110 |
| 75° | 3270 | 2929 | 2984 |
| 80° | 2861 | 2776 | 2858 |
| 85° | 2484 | 2642 | 2759 |



TEST NUMBER: P331270-840

CATALOG NUMBER: S122DIP-S290D925U840-4F0-1E-UDD-D

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 30.0 | 0.6 |
| 10°-20° | 86.0 | 1.7 |
| 20°-30° | 130.3 | 2.6 |
| 30°-40° | 158.8 | 3.2 |
| 40°-50° | 170.8 | 3.5 |
| 50°-60° | 165.9 | 3.4 |
| 60°-70° | 144.8 | 2.9 |
| 70°-80° | 111.5 | 2.3 |
| 80°-90° | 78.0 | 1.6 |
| 90°-100° | 94.1 | 1.9 |
| 100°-110° | 193.6 | 3.9 |
| 110°-120° | 441.6 | 8.9 |
| 120°-130° | 701.9 | 14.2 |
| 130°-140° | 737.5 | 14.9 |
| 140°-150° | 681.1 | 13.8 |
| 150°-160° | 546.8 | 11.1 |
| 160°-170° | 352.3 | 7.1 |
| 170°-180° | 121.3 | 2.5 |
| 0°-30° | 246.3 | 5.0 |
| 0°-40° | 405.1 | 8.2 |
| 0°-60° | 741.7 | 15.0 |
| 0°-90° | 1076.0 | 21.8 |
| 90°-120° | 729.3 | 14.7 |
| 90°-150° | 2849.7 | 57.6 |
| 90°-180° | 3870.0 | 78.2 |
| 0°-180° | 4946.1 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 317 | 317 | 317 | 317 | 317 | |
| 5° | 318 | 316 | 313 | 316 | 316 | 30 |
| 15° | 303 | 304 | 304 | 308 | 307 | 85 |
| 25° | 275 | 278 | 283 | 288 | 289 | 127 |
| 35° | 237 | 245 | 254 | 263 | 267 | 148 |
| 45° | 194 | 207 | 223 | 237 | 242 | 150 |
| 55° | 149 | 166 | 190 | 205 | 212 | 133 |
| 65° | 102 | 125 | 151 | 170 | 176 | 101 |
| 75° | 56 | 82 | 112 | 130 | 137 | 60 |
| 85° | 17 | 45 | 74 | 93 | 100 | 18 |
| 90° | 6 | 42 | 79 | 101 | 109 | 6 |
| 95° | 64 | 57 | 89 | 110 | 115 | 76 |
| 105° | 283 | 309 | 96 | 121 | 131 | 302 |
| 115° | 532 | 554 | 597 | 203 | 122 | 524 |
| 125° | 751 | 764 | 795 | 813 | 821 | 669 |
| 135° | 928 | 943 | 956 | 974 | 977 | 717 |
| 145° | 1076 | 1076 | 1091 | 1100 | 1098 | 673 |
| 155° | 1185 | 1178 | 1188 | 1193 | 1186 | 546 |
| 165° | 1249 | 1244 | 1246 | 1252 | 1246 | 353 |
| 175° | 1277 | 1271 | 1273 | 1278 | 1270 | 122 |
| 180° | 1275 | 1275 | 1275 | 1275 | 1275 | |



TEST NUMBER: P331270-840

CATALOG NUMBER: S122DIP-S290D925U840-4F0-1E-UDD-D

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 316.6 | 316.6 | 316.6 | 316.6 | 316.6 | 316.6 | 316.6 | 316.6 | 316.6 | 316.6 | 316.6 |
| 2.5° | 318.4 | 318.1 | 317.9 | 317.6 | 317.4 | 317.0 | 316.4 | 315.9 | 315.3 | 314.7 | 315.1 |
| 5° | 317.5 | 317.2 | 316.9 | 316.6 | 316.2 | 315.8 | 315.2 | 314.6 | 314.0 | 313.4 | 314.0 |
| 7.5° | 314.6 | 314.4 | 314.2 | 314.0 | 313.8 | 313.5 | 313.0 | 312.6 | 312.0 | 311.5 | 312.4 |
| 10° | 312.5 | 312.3 | 312.0 | 311.8 | 311.6 | 311.3 | 311.0 | 310.7 | 310.4 | 310.1 | 310.9 |
| 12.5° | 308.7 | 308.8 | 308.8 | 308.9 | 308.9 | 308.8 | 308.6 | 308.4 | 308.1 | 307.9 | 308.7 |
| 15° | 302.8 | 303.0 | 303.2 | 303.4 | 303.6 | 303.7 | 303.7 | 303.7 | 303.7 | 303.7 | 304.6 |
| 17.5° | 295.1 | 295.5 | 295.9 | 296.4 | 296.8 | 297.2 | 297.5 | 297.8 | 298.1 | 298.5 | 299.4 |
| 20° | 289.9 | 290.4 | 290.9 | 291.4 | 292.0 | 292.5 | 292.9 | 293.3 | 293.7 | 294.1 | 295.2 |
| 22.5° | 284.5 | 285.0 | 285.6 | 286.2 | 286.8 | 287.4 | 287.9 | 288.5 | 289.1 | 289.6 | 290.7 |
| 25° | 275.3 | 276.0 | 276.7 | 277.4 | 278.1 | 278.9 | 279.8 | 280.7 | 281.7 | 282.6 | 283.8 |
| 27.5° | 264.3 | 265.4 | 266.6 | 267.7 | 268.9 | 270.0 | 271.0 | 272.2 | 273.3 | 274.4 | 275.9 |
| 30° | 256.9 | 258.2 | 259.5 | 260.8 | 262.2 | 263.6 | 264.9 | 266.2 | 267.5 | 268.8 | 270.4 |
| 32.5° | 248.8 | 250.3 | 251.8 | 253.3 | 254.8 | 256.3 | 257.9 | 259.4 | 261.1 | 262.6 | 264.5 |
| 35° | 237.2 | 238.9 | 240.7 | 242.4 | 244.1 | 245.9 | 247.9 | 249.8 | 251.8 | 253.7 | 255.9 |
| 37.5° | 224.5 | 226.5 | 228.5 | 230.6 | 232.5 | 234.8 | 237.3 | 239.7 | 242.3 | 244.8 | 247.3 |
| 40° | 216.1 | 218.3 | 220.6 | 222.8 | 225.0 | 227.5 | 230.2 | 233.1 | 235.8 | 238.5 | 241.2 |
| 42.5° | 208.0 | 210.3 | 212.5 | 214.7 | 217.0 | 219.6 | 222.9 | 226.0 | 229.1 | 232.3 | 235.2 |
| 45° | 194.5 | 197.2 | 200.1 | 202.8 | 205.5 | 208.6 | 212.3 | 215.8 | 219.3 | 223.0 | 226.1 |
| 47.5° | 181.2 | 184.2 | 187.2 | 190.2 | 193.2 | 196.8 | 201.0 | 205.1 | 209.3 | 213.5 | 216.8 |
| 50° | 172.1 | 175.2 | 178.3 | 181.5 | 184.7 | 188.5 | 193.2 | 197.7 | 202.3 | 206.9 | 210.4 |
| 52.5° | 163.2 | 166.5 | 169.9 | 173.2 | 176.5 | 180.6 | 185.4 | 190.3 | 195.1 | 200.0 | 203.5 |
| 55° | 149.1 | 152.8 | 156.4 | 160.1 | 163.8 | 168.2 | 173.6 | 178.8 | 184.2 | 189.5 | 193.2 |
| 57.5° | 135.1 | 139.3 | 143.4 | 147.5 | 151.7 | 156.4 | 161.9 | 167.2 | 172.7 | 178.1 | 182.1 |
| 60° | 125.2 | 129.7 | 134.0 | 138.4 | 142.8 | 147.8 | 153.7 | 159.5 | 165.3 | 171.1 | 175.0 |
| 62.5° | 116.4 | 121.0 | 125.5 | 130.1 | 134.6 | 139.8 | 145.6 | 151.4 | 157.2 | 163.1 | 167.1 |
| 65° | 101.8 | 106.8 | 111.8 | 116.8 | 121.8 | 127.3 | 133.3 | 139.4 | 145.4 | 151.4 | 155.6 |
| 67.5° | 88.5 | 93.7 | 98.9 | 104.1 | 109.4 | 115.0 | 121.2 | 127.3 | 133.5 | 139.7 | 143.9 |
| 70° | 78.9 | 84.2 | 89.5 | 94.8 | 100.1 | 105.9 | 112.2 | 118.6 | 124.9 | 131.2 | 135.6 |
| 72.5° | 70.1 | 75.5 | 81.0 | 86.4 | 92.0 | 97.9 | 104.3 | 110.7 | 117.1 | 123.5 | 127.8 |
| 75° | 56.5 | 62.1 | 67.9 | 73.5 | 79.3 | 85.3 | 91.9 | 98.5 | 104.9 | 111.5 | 115.8 |
| 77.5° | 43.2 | 49.2 | 55.1 | 61.1 | 67.2 | 73.4 | 80.1 | 86.6 | 93.3 | 99.9 | 104.3 |
| 80° | 34.4 | 40.6 | 46.9 | 53.0 | 59.3 | 65.7 | 72.3 | 79.0 | 85.5 | 92.2 | 96.4 |
| 82.5° | 27.1 | 33.2 | 39.4 | 45.4 | 51.6 | 58.1 | 64.7 | 71.5 | 78.2 | 84.8 | 89.2 |
| 85° | 16.6 | 22.8 | 29.2 | 35.4 | 41.8 | 48.2 | 54.7 | 61.3 | 67.8 | 74.3 | 78.6 |
| 87.5° | 9.2 | 15.7 | 22.2 | 28.8 | 35.2 | 42.0 | 48.8 | 55.6 | 62.5 | 69.4 | 73.7 |
| 90° | 5.6 | 13.6 | 21.8 | 30.0 | 38.2 | 46.4 | 54.5 | 62.7 | 70.8 | 79.0 | 84.1 |
| 92.5° | 22.8 | 28.2 | 33.4 | 38.8 | 44.0 | 50.3 | 57.4 | 64.4 | 71.6 | 78.7 | 83.2 |
| 95° | 63.6 | 61.6 | 59.7 | 57.7 | 55.7 | 58.5 | 66.0 | 73.6 | 81.2 | 88.8 | 93.6 |
| 97.5° | 122.2 | 107.3 | 92.6 | 77.8 | 63.0 | 60.2 | 69.4 | 78.6 | 87.8 | 96.9 | 101.6 |
| 100° | 166.4 | 142.2 | 117.9 | 93.5 | 69.3 | 61.7 | 70.9 | 80.1 | 89.3 | 98.5 | 103.8 |
| 102.5° | 214.8 | 212.3 | 209.7 | 207.3 | 204.8 | 191.8 | 168.1 | 144.5 | 121.0 | 97.4 | 103.2 |
| 105° | 282.7 | 291.8 | 300.8 | 310.0 | 319.1 | 298.3 | 247.7 | 197.0 | 146.3 | 95.7 | 101.5 |
| 107.5° | 360.6 | 367.9 | 375.3 | 382.5 | 389.9 | 362.5 | 300.5 | 238.5 | 176.5 | 114.4 | 115.6 |
| 110° | 410.4 | 416.8 | 423.1 | 429.4 | 435.8 | 411.8 | 357.6 | 303.4 | 249.1 | 194.9 | 177.6 |



TEST NUMBER: P331270-840

CATALOG NUMBER: S122DIP-S290D925U840-4F0-1E-UDD-D

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 457.7 | 463.1 | 468.7 | 474.2 | 479.8 | 477.6 | 467.7 | 457.8 | 447.9 | 438.0 | 366.5 |
| 115° | 532.2 | 536.7 | 541.4 | 545.9 | 550.6 | 557.7 | 567.4 | 577.1 | 586.8 | 596.6 | 504.7 |
| 117.5° | 598.2 | 602.9 | 607.5 | 612.2 | 616.8 | 623.0 | 630.8 | 638.5 | 646.3 | 654.1 | 634.1 |
| 120° | 647.0 | 650.5 | 654.0 | 657.4 | 661.0 | 666.5 | 674.3 | 682.1 | 689.8 | 697.6 | 703.0 |
| 122.5° | 688.3 | 691.8 | 695.1 | 698.5 | 702.0 | 707.5 | 715.4 | 723.3 | 731.0 | 738.9 | 743.2 |
| 125° | 750.7 | 753.5 | 756.1 | 758.7 | 761.4 | 766.3 | 773.5 | 780.6 | 787.8 | 795.0 | 799.1 |
| 127.5° | 807.8 | 810.6 | 813.4 | 816.3 | 819.1 | 823.3 | 828.9 | 834.5 | 840.0 | 845.5 | 850.1 |
| 130° | 843.9 | 847.1 | 850.3 | 853.4 | 856.6 | 860.4 | 864.7 | 869.2 | 873.6 | 878.0 | 882.7 |
| 132.5° | 880.8 | 883.5 | 886.2 | 888.9 | 891.5 | 894.8 | 898.8 | 902.6 | 906.6 | 910.5 | 914.7 |
| 135° | 928.3 | 931.6 | 934.8 | 938.2 | 941.4 | 944.5 | 947.4 | 950.2 | 953.1 | 955.9 | 960.2 |
| 137.5° | 976.8 | 979.1 | 981.4 | 983.6 | 985.9 | 988.4 | 990.9 | 993.4 | 995.9 | 998.5 | 1002.4 |
| 140° | 1008.6 | 1010.1 | 1011.6 | 1013.2 | 1014.7 | 1016.7 | 1019.2 | 1021.6 | 1024.1 | 1026.5 | 1030.0 |
| 142.5° | 1035.1 | 1036.4 | 1037.8 | 1039.3 | 1040.6 | 1042.6 | 1045.2 | 1047.8 | 1050.5 | 1053.1 | 1056.1 |
| 145° | 1076.3 | 1076.1 | 1075.9 | 1075.7 | 1075.5 | 1077.1 | 1080.7 | 1084.1 | 1087.6 | 1091.1 | 1093.2 |
| 147.5° | 1112.7 | 1111.9 | 1111.2 | 1110.3 | 1109.5 | 1110.9 | 1114.3 | 1117.8 | 1121.3 | 1124.7 | 1125.8 |
| 150° | 1136.3 | 1134.9 | 1133.4 | 1132.0 | 1130.5 | 1131.5 | 1134.8 | 1138.0 | 1141.3 | 1144.6 | 1145.8 |
| 152.5° | 1156.2 | 1154.6 | 1153.0 | 1151.4 | 1149.8 | 1150.5 | 1153.7 | 1156.8 | 1159.9 | 1163.1 | 1164.3 |
| 155° | 1185.2 | 1183.4 | 1181.4 | 1179.6 | 1177.8 | 1178.1 | 1180.5 | 1183.1 | 1185.5 | 1187.9 | 1189.1 |
| 157.5° | 1207.8 | 1206.3 | 1204.8 | 1203.2 | 1201.6 | 1201.7 | 1203.5 | 1205.2 | 1206.9 | 1208.6 | 1210.0 |
| 160° | 1221.1 | 1219.9 | 1218.7 | 1217.4 | 1216.2 | 1216.2 | 1217.4 | 1218.7 | 1219.9 | 1221.1 | 1222.3 |
| 162.5° | 1232.9 | 1231.7 | 1230.5 | 1229.2 | 1228.0 | 1227.9 | 1229.0 | 1230.0 | 1231.1 | 1232.2 | 1233.6 |
| 165° | 1248.8 | 1247.6 | 1246.4 | 1245.1 | 1243.9 | 1243.5 | 1244.2 | 1244.8 | 1245.5 | 1246.1 | 1247.5 |
| 167.5° | 1260.6 | 1259.4 | 1258.2 | 1256.9 | 1255.7 | 1255.4 | 1256.0 | 1256.5 | 1257.1 | 1257.7 | 1259.1 |
| 170° | 1267.3 | 1266.0 | 1264.8 | 1263.5 | 1262.3 | 1261.9 | 1262.3 | 1262.7 | 1263.1 | 1263.5 | 1265.0 |
| 172.5° | 1271.6 | 1270.4 | 1269.2 | 1268.0 | 1266.8 | 1266.4 | 1266.8 | 1267.2 | 1267.6 | 1268.0 | 1269.4 |
| 175° | 1277.4 | 1276.0 | 1274.6 | 1273.0 | 1271.6 | 1271.1 | 1271.5 | 1271.9 | 1272.3 | 1272.7 | 1274.2 |
| 177.5° | 1278.3 | 1277.2 | 1276.1 | 1274.9 | 1273.7 | 1273.2 | 1273.4 | 1273.5 | 1273.7 | 1273.8 | 1275.1 |
| 180° | 1274.7 | 1274.7 | 1274.7 | 1274.7 | 1274.7 | 1274.7 | 1274.7 | 1274.7 | 1274.7 | 1274.7 | 1274.7 |



TEST NUMBER: P331270-840

CATALOG NUMBER: S122DIP-S290D925U840-4F0-1E-UDD-D

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 316.6 | 316.6 | 316.6 | 316.6 | 316.6 | 316.6 | 316.6 | 316.6 |
| 2.5° | 315.5 | 315.9 | 316.3 | 316.5 | 316.3 | 316.1 | 316.0 | 315.8 |
| 5° | 314.6 | 315.2 | 315.8 | 316.0 | 315.9 | 315.8 | 315.7 | 315.6 |
| 7.5° | 313.1 | 313.8 | 314.6 | 314.9 | 314.8 | 314.7 | 314.6 | 314.5 |
| 10° | 311.7 | 312.6 | 313.4 | 313.8 | 313.7 | 313.6 | 313.5 | 313.4 |
| 12.5° | 309.5 | 310.3 | 311.1 | 311.5 | 311.4 | 311.3 | 311.2 | 311.1 |
| 15° | 305.5 | 306.5 | 307.4 | 307.8 | 307.7 | 307.6 | 307.5 | 307.4 |
| 17.5° | 300.4 | 301.3 | 302.3 | 302.8 | 302.8 | 302.8 | 302.8 | 302.8 |
| 20° | 296.3 | 297.4 | 298.5 | 299.1 | 299.1 | 299.1 | 299.1 | 299.1 |
| 22.5° | 292.0 | 293.1 | 294.2 | 294.8 | 295.0 | 295.1 | 295.3 | 295.5 |
| 25° | 285.1 | 286.3 | 287.5 | 288.2 | 288.5 | 288.8 | 289.1 | 289.4 |
| 27.5° | 277.4 | 279.0 | 280.5 | 281.4 | 281.7 | 281.9 | 282.1 | 282.4 |
| 30° | 272.1 | 273.8 | 275.4 | 276.3 | 276.6 | 276.9 | 277.2 | 277.5 |
| 32.5° | 266.3 | 268.2 | 270.1 | 271.4 | 271.9 | 272.5 | 273.0 | 273.5 |
| 35° | 258.2 | 260.4 | 262.7 | 264.2 | 264.9 | 265.6 | 266.3 | 267.0 |
| 37.5° | 249.7 | 252.3 | 254.8 | 256.4 | 257.1 | 257.9 | 258.6 | 259.3 |
| 40° | 243.9 | 246.5 | 249.1 | 251.0 | 251.9 | 252.8 | 253.7 | 254.6 |
| 42.5° | 238.1 | 241.0 | 243.9 | 245.8 | 246.7 | 247.6 | 248.5 | 249.4 |
| 45° | 229.2 | 232.5 | 235.6 | 237.7 | 238.7 | 239.7 | 240.8 | 241.8 |
| 47.5° | 220.2 | 223.4 | 226.7 | 228.9 | 230.0 | 231.2 | 232.3 | 233.4 |
| 50° | 213.8 | 217.3 | 220.8 | 223.1 | 224.2 | 225.3 | 226.4 | 227.5 |
| 52.5° | 207.0 | 210.6 | 214.1 | 216.5 | 217.7 | 218.9 | 220.2 | 221.3 |
| 55° | 196.8 | 200.5 | 204.2 | 206.6 | 207.9 | 209.3 | 210.7 | 212.0 |
| 57.5° | 186.0 | 190.0 | 193.9 | 196.5 | 197.9 | 199.2 | 200.6 | 202.0 |
| 60° | 178.8 | 182.8 | 186.6 | 189.2 | 190.7 | 192.1 | 193.6 | 195.0 |
| 62.5° | 171.3 | 175.4 | 179.6 | 182.3 | 183.6 | 184.9 | 186.3 | 187.6 |
| 65° | 159.8 | 163.9 | 168.1 | 170.9 | 172.2 | 173.5 | 174.8 | 176.1 |
| 67.5° | 148.0 | 152.3 | 156.5 | 159.4 | 160.7 | 162.1 | 163.5 | 164.9 |
| 70° | 140.0 | 144.3 | 148.8 | 151.6 | 152.8 | 154.0 | 155.2 | 156.4 |
| 72.5° | 132.1 | 136.4 | 140.7 | 143.6 | 145.0 | 146.5 | 148.0 | 149.5 |
| 75° | 120.3 | 124.6 | 129.1 | 131.9 | 133.2 | 134.5 | 135.8 | 137.1 |
| 77.5° | 108.7 | 113.0 | 117.3 | 120.3 | 121.7 | 123.1 | 124.5 | 125.9 |
| 80° | 100.8 | 105.0 | 109.4 | 112.2 | 113.6 | 115.0 | 116.4 | 117.9 |
| 82.5° | 93.4 | 97.8 | 102.0 | 104.8 | 106.1 | 107.6 | 108.9 | 110.2 |
| 85° | 82.9 | 87.2 | 91.5 | 94.3 | 95.7 | 97.1 | 98.6 | 100.0 |
| 87.5° | 78.1 | 82.5 | 86.8 | 89.7 | 91.1 | 92.5 | 93.9 | 95.2 |
| 90° | 89.2 | 94.3 | 99.4 | 102.8 | 104.4 | 106.0 | 107.7 | 109.3 |
| 92.5° | 87.8 | 92.2 | 96.7 | 99.8 | 101.2 | 102.7 | 104.2 | 105.6 |
| 95° | 98.6 | 103.4 | 108.4 | 111.3 | 112.3 | 113.3 | 114.3 | 115.3 |
| 97.5° | 106.1 | 110.8 | 115.3 | 118.4 | 119.8 | 121.3 | 122.7 | 124.1 |
| 100° | 109.3 | 114.7 | 120.1 | 123.6 | 125.1 | 126.6 | 128.2 | 129.7 |
| 102.5° | 109.0 | 114.8 | 120.7 | 124.4 | 126.1 | 127.7 | 129.5 | 131.2 |
| 105° | 107.3 | 113.2 | 119.0 | 122.9 | 124.8 | 126.7 | 128.8 | 130.7 |
| 107.5° | 116.7 | 117.9 | 119.0 | 120.5 | 122.5 | 124.4 | 126.3 | 128.3 |
| 110° | 160.5 | 143.2 | 125.9 | 118.4 | 120.3 | 122.2 | 124.1 | 126.0 |



TEST NUMBER: P331270-840

CATALOG NUMBER: S122DIP-S290D925U840-4F0-1E-UDD-D

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 295.0 | 223.5 | 152.0 | 117.1 | 119.0 | 120.7 | 122.5 | 124.2 |
| 115° | 412.9 | 321.0 | 229.2 | 176.5 | 162.9 | 149.3 | 135.6 | 122.0 |
| 117.5° | 614.2 | 594.2 | 574.3 | 540.6 | 493.2 | 445.8 | 398.3 | 350.8 |
| 120° | 708.2 | 713.6 | 718.8 | 708.2 | 681.7 | 655.2 | 628.6 | 602.1 |
| 122.5° | 747.4 | 751.6 | 756.0 | 755.9 | 751.4 | 747.0 | 742.7 | 738.2 |
| 125° | 803.3 | 807.5 | 811.7 | 814.6 | 816.1 | 817.6 | 819.1 | 820.7 |
| 127.5° | 854.7 | 859.4 | 863.9 | 866.8 | 867.8 | 868.9 | 869.9 | 870.9 |
| 130° | 887.4 | 892.1 | 896.8 | 899.5 | 900.1 | 900.7 | 901.3 | 901.9 |
| 132.5° | 919.1 | 923.3 | 927.7 | 930.1 | 930.7 | 931.3 | 931.9 | 932.5 |
| 135° | 964.3 | 968.6 | 972.7 | 975.0 | 975.4 | 975.8 | 976.2 | 976.6 |
| 137.5° | 1006.2 | 1010.2 | 1014.0 | 1015.9 | 1015.9 | 1015.9 | 1015.9 | 1015.9 |
| 140° | 1033.5 | 1036.9 | 1040.5 | 1042.0 | 1041.6 | 1041.2 | 1040.7 | 1040.3 |
| 142.5° | 1059.0 | 1062.1 | 1065.0 | 1066.3 | 1065.8 | 1065.3 | 1064.8 | 1064.3 |
| 145° | 1095.2 | 1097.2 | 1099.2 | 1100.0 | 1099.5 | 1099.0 | 1098.5 | 1098.0 |
| 147.5° | 1126.9 | 1128.1 | 1129.2 | 1129.5 | 1128.9 | 1128.3 | 1127.6 | 1127.0 |
| 150° | 1147.0 | 1148.3 | 1149.5 | 1149.6 | 1148.6 | 1147.5 | 1146.5 | 1145.5 |
| 152.5° | 1165.5 | 1166.7 | 1167.9 | 1167.9 | 1166.5 | 1165.2 | 1163.9 | 1162.5 |
| 155° | 1190.4 | 1191.6 | 1192.9 | 1192.7 | 1191.0 | 1189.3 | 1187.7 | 1186.1 |
| 157.5° | 1211.3 | 1212.7 | 1214.2 | 1214.1 | 1212.4 | 1210.8 | 1209.2 | 1207.7 |
| 160° | 1223.6 | 1224.9 | 1226.1 | 1226.0 | 1224.5 | 1223.0 | 1221.6 | 1220.2 |
| 162.5° | 1235.0 | 1236.4 | 1237.8 | 1237.6 | 1235.9 | 1234.1 | 1232.3 | 1230.5 |
| 165° | 1248.9 | 1250.3 | 1251.7 | 1251.7 | 1250.3 | 1248.9 | 1247.5 | 1246.1 |
| 167.5° | 1260.5 | 1261.9 | 1263.4 | 1263.1 | 1261.3 | 1259.5 | 1257.7 | 1255.8 |
| 170° | 1266.5 | 1267.9 | 1269.3 | 1269.1 | 1267.3 | 1265.4 | 1263.5 | 1261.7 |
| 172.5° | 1270.8 | 1272.3 | 1273.7 | 1273.5 | 1271.6 | 1269.8 | 1268.0 | 1266.2 |
| 175° | 1275.7 | 1277.1 | 1278.5 | 1278.2 | 1276.2 | 1274.1 | 1272.0 | 1270.0 |
| 177.5° | 1276.2 | 1277.4 | 1278.5 | 1278.3 | 1276.9 | 1275.4 | 1273.8 | 1272.4 |
| 180° | 1274.7 | 1274.7 | 1274.7 | 1274.7 | 1274.7 | 1274.7 | 1274.7 | 1274.7 |

(END OF REPORT)