

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: P331642-927

Luminaire Tested: **S122RDIP-S290D1080U927-4F0-1E-UDD-F**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331642-927
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: S122RDIP-S290D1080U927-4F0-1E-UDD-F
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 290 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER, REGRESSED
HOUSING
UPLIGHT 1080 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4231.4 lumens
Efficiency: N/A
Efficacy: 100.3 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-Indirect

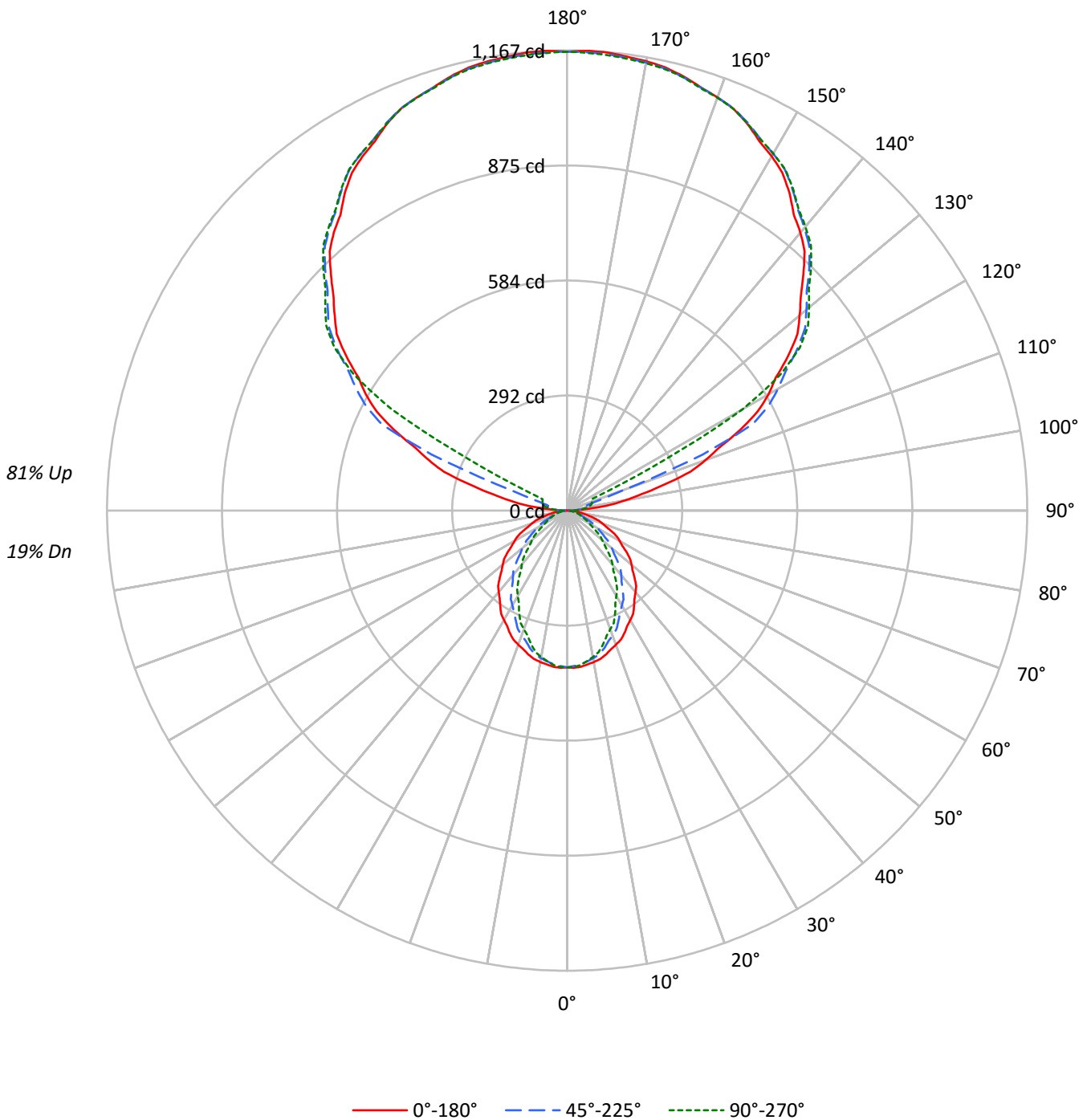
Input Watts (W): 42.2
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P331642-927

CATALOG NUMBER: S122RDIP-S290D1080U927-4F0-1E-UDD-F

Luminous Intensity Polar Plot





TEST NUMBER: P331642-927

CATALOG NUMBER: S122RDIP-S290D1080U927-4F0-1E-UDD-F

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 | 88 | 88 | 88 | 88 | 66 | 66 | 66 | 46 | 46 | 46 | 28 | 28 | 28 | 19 |
| 1 | 91 | 87 | 83 | 80 | 80 | 77 | 74 | 71 | 58 | 56 | 54 | 41 | 40 | 39 | 25 | 24 | 24 | 17 |
| 2 | 83 | 76 | 70 | 66 | 73 | 67 | 63 | 59 | 51 | 48 | 45 | 36 | 34 | 33 | 22 | 21 | 20 | 14 |
| 3 | 76 | 67 | 60 | 55 | 67 | 59 | 54 | 49 | 45 | 41 | 38 | 32 | 30 | 28 | 20 | 19 | 18 | 12 |
| 4 | 69 | 59 | 52 | 46 | 61 | 53 | 46 | 42 | 40 | 36 | 33 | 29 | 26 | 24 | 18 | 16 | 15 | 11 |
| 5 | 64 | 53 | 45 | 39 | 56 | 47 | 40 | 36 | 36 | 31 | 28 | 26 | 23 | 21 | 16 | 15 | 13 | 9 |
| 6 | 58 | 47 | 40 | 34 | 51 | 42 | 36 | 31 | 32 | 28 | 24 | 23 | 20 | 18 | 15 | 13 | 12 | 8 |
| 7 | 54 | 42 | 35 | 30 | 47 | 38 | 31 | 27 | 29 | 25 | 21 | 21 | 18 | 16 | 13 | 12 | 10 | 7 |
| 8 | 50 | 38 | 31 | 26 | 44 | 34 | 28 | 24 | 26 | 22 | 19 | 19 | 16 | 14 | 12 | 11 | 9 | 7 |
| 9 | 46 | 35 | 28 | 23 | 41 | 31 | 25 | 21 | 24 | 20 | 17 | 18 | 15 | 13 | 11 | 10 | 9 | 6 |
| 10 | 43 | 32 | 25 | 21 | 38 | 28 | 23 | 19 | 22 | 18 | 15 | 16 | 13 | 11 | 10 | 9 | 8 | 6 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 6421 | 6421 | 6421 |
| 5° | 6446 | 6340 | 6374 |
| 10° | 6396 | 6237 | 6184 |
| 15° | 6322 | 6051 | 5877 |
| 20° | 6220 | 5787 | 5498 |
| 25° | 6116 | 5489 | 5129 |
| 30° | 5972 | 5179 | 4657 |
| 35° | 5830 | 4845 | 4242 |
| 40° | 5689 | 4498 | 3762 |
| 45° | 5523 | 4108 | 3329 |
| 50° | 5350 | 3715 | 2901 |
| 55° | 5177 | 3291 | 2494 |
| 60° | 4973 | 2848 | 2070 |
| 65° | 4741 | 2392 | 1883 |
| 70° | 4471 | 1969 | 1733 |
| 75° | 4130 | 1797 | 1616 |
| 80° | 3645 | 1609 | 1469 |
| 85° | 2853 | 1260 | 1260 |



TEST NUMBER: P331642-927

CATALOG NUMBER: S122RDIP-S290D1080U927-4F0-1E-UDD-F

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 37.2 | 0.9 |
| 10°-20° | 102.2 | 2.4 |
| 20°-30° | 143.5 | 3.4 |
| 30°-40° | 156.5 | 3.7 |
| 40°-50° | 143.9 | 3.4 |
| 50°-60° | 113.0 | 2.7 |
| 60°-70° | 73.7 | 1.7 |
| 70°-80° | 38.0 | 0.9 |
| 80°-90° | 12.7 | 0.3 |
| 90°-100° | 38.8 | 0.9 |
| 100°-110° | 142.4 | 3.4 |
| 110°-120° | 380.6 | 9.0 |
| 120°-130° | 628.2 | 14.8 |
| 130°-140° | 668.1 | 15.8 |
| 140°-150° | 620.9 | 14.7 |
| 150°-160° | 499.2 | 11.8 |
| 160°-170° | 321.7 | 7.6 |
| 170°-180° | 110.7 | 2.6 |
| 0°-30° | 282.9 | 6.7 |
| 0°-40° | 439.4 | 10.4 |
| 0°-60° | 696.4 | 16.5 |
| 0°-90° | 820.7 | 19.4 |
| 90°-120° | 561.7 | 13.3 |
| 90°-150° | 2478.9 | 58.6 |
| 90°-180° | 3411.0 | 80.6 |
| 0°-180° | 4231.4 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 398 | 398 | 398 | 398 | 398 | |
| 5° | 398 | 396 | 391 | 394 | 393 | 38 |
| 15° | 378 | 374 | 362 | 355 | 352 | 106 |
| 25° | 343 | 331 | 308 | 294 | 288 | 158 |
| 35° | 296 | 277 | 246 | 224 | 215 | 185 |
| 45° | 242 | 217 | 180 | 155 | 146 | 187 |
| 55° | 184 | 155 | 117 | 96 | 89 | 164 |
| 65° | 124 | 95 | 63 | 51 | 49 | 123 |
| 75° | 66 | 42 | 29 | 26 | 26 | 70 |
| 85° | 15 | 8 | 7 | 7 | 7 | 18 |
| 90° | 1 | 10 | 17 | 21 | 23 | 3 |
| 95° | 55 | 29 | 33 | 37 | 36 | 67 |
| 105° | 256 | 267 | 51 | 60 | 64 | 274 |
| 115° | 484 | 499 | 520 | 148 | 69 | 477 |
| 125° | 685 | 696 | 712 | 717 | 720 | 610 |
| 135° | 847 | 860 | 868 | 876 | 875 | 654 |
| 145° | 983 | 983 | 996 | 1002 | 998 | 614 |
| 155° | 1082 | 1076 | 1085 | 1089 | 1083 | 498 |
| 165° | 1140 | 1136 | 1138 | 1143 | 1138 | 322 |
| 175° | 1166 | 1161 | 1162 | 1167 | 1160 | 111 |
| 180° | 1164 | 1164 | 1164 | 1164 | 1164 | |



TEST NUMBER: P331642-927

CATALOG NUMBER: S122RDIP-S290D1080U927-4F0-1E-UDD-F

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 397.7 | 397.7 | 397.7 | 397.7 | 397.7 | 397.7 | 397.7 | 397.7 | 397.7 | 397.7 | 397.7 |
| 2.5° | 399.1 | 398.8 | 398.5 | 398.2 | 397.8 | 397.3 | 396.6 | 395.9 | 395.2 | 394.5 | 395.1 |
| 5° | 397.7 | 397.3 | 396.9 | 396.5 | 396.1 | 395.3 | 394.3 | 393.2 | 392.2 | 391.2 | 391.9 |
| 7.5° | 393.6 | 393.1 | 392.5 | 392.1 | 391.6 | 390.7 | 389.5 | 388.2 | 387.1 | 385.9 | 386.0 |
| 10° | 390.1 | 389.5 | 389.0 | 388.4 | 387.9 | 386.7 | 385.2 | 383.6 | 382.0 | 380.4 | 380.2 |
| 12.5° | 385.8 | 385.1 | 384.4 | 383.7 | 383.0 | 381.7 | 379.6 | 377.6 | 375.5 | 373.4 | 373.0 |
| 15° | 378.2 | 377.3 | 376.4 | 375.6 | 374.7 | 372.9 | 370.2 | 367.5 | 364.7 | 362.0 | 360.5 |
| 17.5° | 368.9 | 367.6 | 366.2 | 364.9 | 363.5 | 361.2 | 357.7 | 354.2 | 350.7 | 347.2 | 345.4 |
| 20° | 362.0 | 360.4 | 358.9 | 357.2 | 355.6 | 352.8 | 348.8 | 344.8 | 340.9 | 336.8 | 334.9 |
| 22.5° | 354.6 | 352.8 | 350.9 | 349.2 | 347.4 | 344.2 | 339.7 | 335.2 | 330.7 | 326.2 | 323.6 |
| 25° | 343.3 | 340.7 | 338.2 | 335.6 | 333.1 | 329.2 | 323.8 | 318.6 | 313.3 | 308.1 | 304.8 |
| 27.5° | 329.8 | 327.0 | 324.2 | 321.5 | 318.6 | 314.3 | 308.3 | 302.4 | 296.4 | 290.5 | 286.7 |
| 30° | 320.3 | 317.3 | 314.2 | 311.2 | 308.2 | 303.4 | 297.0 | 290.7 | 284.2 | 277.8 | 273.8 |
| 32.5° | 311.1 | 307.5 | 304.0 | 300.4 | 296.8 | 291.8 | 285.3 | 278.8 | 272.3 | 265.7 | 261.1 |
| 35° | 295.8 | 291.8 | 287.6 | 283.6 | 279.5 | 273.9 | 266.9 | 259.8 | 252.9 | 245.8 | 240.7 |
| 37.5° | 280.6 | 276.1 | 271.6 | 267.1 | 262.6 | 256.7 | 249.1 | 241.6 | 234.2 | 226.6 | 221.1 |
| 40° | 269.9 | 265.1 | 260.3 | 255.5 | 250.7 | 244.5 | 236.7 | 228.9 | 221.2 | 213.4 | 207.7 |
| 42.5° | 259.0 | 253.9 | 248.8 | 243.8 | 238.8 | 232.2 | 224.2 | 216.2 | 208.2 | 200.2 | 194.3 |
| 45° | 241.9 | 236.5 | 231.1 | 225.8 | 220.4 | 213.5 | 205.1 | 196.7 | 188.3 | 179.9 | 174.3 |
| 47.5° | 225.1 | 219.4 | 213.8 | 208.1 | 202.4 | 195.3 | 186.6 | 177.9 | 169.2 | 160.6 | 155.0 |
| 50° | 213.0 | 207.4 | 201.7 | 196.0 | 190.4 | 183.1 | 174.3 | 165.5 | 156.7 | 147.9 | 142.4 |
| 52.5° | 201.2 | 195.3 | 189.4 | 183.5 | 177.5 | 170.2 | 161.6 | 153.0 | 144.4 | 135.8 | 130.5 |
| 55° | 183.9 | 177.7 | 171.4 | 165.2 | 158.9 | 151.5 | 142.8 | 134.2 | 125.6 | 116.9 | 112.2 |
| 57.5° | 166.1 | 159.7 | 153.3 | 146.9 | 140.5 | 133.2 | 124.8 | 116.6 | 108.3 | 100.0 | 95.5 |
| 60° | 154.0 | 147.7 | 141.2 | 134.8 | 128.4 | 121.1 | 112.9 | 104.6 | 96.4 | 88.2 | 84.1 |
| 62.5° | 142.2 | 135.9 | 129.4 | 123.0 | 116.6 | 109.5 | 101.6 | 93.8 | 86.0 | 78.1 | 74.2 |
| 65° | 124.1 | 117.6 | 111.2 | 104.7 | 98.2 | 91.4 | 84.2 | 77.0 | 69.8 | 62.6 | 59.9 |
| 67.5° | 106.7 | 100.3 | 93.9 | 87.5 | 81.0 | 74.5 | 68.0 | 61.6 | 55.1 | 48.6 | 47.4 |
| 70° | 94.7 | 88.4 | 82.1 | 76.0 | 69.7 | 63.8 | 58.3 | 52.8 | 47.3 | 41.7 | 41.0 |
| 72.5° | 83.1 | 77.2 | 71.1 | 65.2 | 59.2 | 54.0 | 49.6 | 45.2 | 40.7 | 36.3 | 35.6 |
| 75° | 66.2 | 60.6 | 55.1 | 49.4 | 43.8 | 39.7 | 36.9 | 34.2 | 31.5 | 28.8 | 28.2 |
| 77.5° | 49.6 | 44.7 | 39.8 | 34.9 | 29.9 | 26.9 | 25.5 | 24.2 | 22.9 | 21.6 | 21.3 |
| 80° | 39.2 | 35.2 | 31.1 | 27.0 | 22.9 | 20.4 | 19.6 | 18.9 | 18.1 | 17.3 | 17.0 |
| 82.5° | 29.7 | 26.5 | 23.4 | 20.2 | 17.0 | 15.1 | 14.6 | 14.0 | 13.5 | 13.0 | 12.8 |
| 85° | 15.4 | 13.8 | 12.1 | 10.5 | 8.8 | 7.8 | 7.5 | 7.3 | 7.1 | 6.8 | 6.8 |
| 87.5° | 4.8 | 4.7 | 4.6 | 4.4 | 4.4 | 4.4 | 4.8 | 5.1 | 5.4 | 5.7 | 5.8 |
| 90° | 0.9 | 2.9 | 5.0 | 7.1 | 9.1 | 10.9 | 12.4 | 13.9 | 15.4 | 16.9 | 17.7 |
| 92.5° | 17.0 | 16.8 | 16.6 | 16.5 | 16.2 | 16.6 | 17.3 | 18.1 | 18.8 | 19.6 | 20.0 |
| 95° | 54.7 | 48.6 | 42.4 | 36.2 | 30.0 | 27.6 | 28.9 | 30.3 | 31.5 | 32.9 | 33.7 |
| 97.5° | 108.6 | 91.3 | 73.8 | 56.4 | 39.1 | 31.8 | 34.9 | 37.9 | 41.0 | 44.0 | 44.7 |
| 100° | 149.1 | 123.4 | 97.8 | 72.2 | 46.5 | 35.3 | 38.4 | 41.7 | 44.8 | 48.0 | 49.5 |
| 102.5° | 193.5 | 188.1 | 182.7 | 177.2 | 171.8 | 155.8 | 129.2 | 102.6 | 76.0 | 49.4 | 51.3 |
| 105° | 256.0 | 261.7 | 267.2 | 272.8 | 278.5 | 255.7 | 204.6 | 153.5 | 102.4 | 51.3 | 53.4 |
| 107.5° | 327.3 | 331.8 | 336.3 | 340.8 | 345.4 | 317.0 | 255.7 | 194.5 | 133.2 | 71.9 | 69.8 |
| 110° | 373.0 | 377.0 | 381.0 | 384.8 | 388.8 | 363.7 | 309.6 | 255.6 | 201.5 | 147.3 | 128.7 |



TEST NUMBER: P331642-927

CATALOG NUMBER: S122RDIP-S290D1080U927-4F0-1E-UDD-F

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 416.2 | 419.7 | 423.1 | 426.6 | 430.1 | 425.2 | 411.8 | 398.5 | 385.1 | 371.7 | 303.5 |
| 115° | 484.3 | 487.4 | 490.6 | 493.8 | 496.9 | 500.9 | 505.6 | 510.2 | 514.9 | 519.6 | 432.9 |
| 117.5° | 545.0 | 548.6 | 552.2 | 555.7 | 559.3 | 562.6 | 565.9 | 569.1 | 572.3 | 575.5 | 554.5 |
| 120° | 589.5 | 592.3 | 595.1 | 597.9 | 600.7 | 603.8 | 607.2 | 610.5 | 613.9 | 617.3 | 619.5 |
| 122.5° | 627.2 | 630.2 | 633.1 | 636.1 | 639.1 | 642.4 | 646.0 | 649.7 | 653.4 | 657.0 | 658.4 |
| 125° | 684.7 | 687.1 | 689.5 | 692.0 | 694.3 | 697.4 | 700.9 | 704.5 | 708.1 | 711.6 | 712.9 |
| 127.5° | 736.7 | 739.4 | 742.1 | 744.8 | 747.5 | 750.1 | 752.8 | 755.4 | 758.1 | 760.8 | 762.7 |
| 130° | 769.7 | 772.7 | 775.7 | 778.7 | 781.6 | 784.2 | 786.2 | 788.3 | 790.4 | 792.4 | 794.5 |
| 132.5° | 803.4 | 806.0 | 808.5 | 811.0 | 813.6 | 815.9 | 817.9 | 820.0 | 822.0 | 824.1 | 825.9 |
| 135° | 847.2 | 850.2 | 853.2 | 856.2 | 859.1 | 861.5 | 863.2 | 864.8 | 866.6 | 868.2 | 870.1 |
| 137.5° | 891.4 | 893.6 | 895.6 | 897.8 | 899.8 | 901.8 | 903.8 | 905.7 | 907.6 | 909.5 | 911.3 |
| 140° | 920.4 | 921.9 | 923.4 | 925.0 | 926.5 | 928.2 | 930.3 | 932.3 | 934.4 | 936.4 | 938.1 |
| 142.5° | 944.7 | 946.0 | 947.4 | 948.7 | 950.1 | 952.0 | 954.3 | 956.6 | 959.0 | 961.4 | 962.9 |
| 145° | 982.8 | 982.5 | 982.4 | 982.2 | 982.0 | 983.5 | 986.7 | 989.8 | 993.1 | 996.2 | 997.5 |
| 147.5° | 1016.0 | 1015.3 | 1014.5 | 1013.8 | 1013.1 | 1014.3 | 1017.5 | 1020.6 | 1023.7 | 1026.9 | 1027.9 |
| 150° | 1037.5 | 1036.2 | 1034.9 | 1033.6 | 1032.3 | 1033.1 | 1036.1 | 1039.1 | 1042.1 | 1045.0 | 1046.2 |
| 152.5° | 1055.7 | 1054.2 | 1052.7 | 1051.3 | 1049.9 | 1050.5 | 1053.4 | 1056.2 | 1059.1 | 1061.9 | 1063.0 |
| 155° | 1082.1 | 1080.5 | 1078.8 | 1077.1 | 1075.4 | 1075.7 | 1077.9 | 1080.1 | 1082.4 | 1084.7 | 1085.8 |
| 157.5° | 1102.9 | 1101.5 | 1100.0 | 1098.6 | 1097.2 | 1097.3 | 1098.8 | 1100.3 | 1101.9 | 1103.5 | 1104.8 |
| 160° | 1115.0 | 1113.9 | 1112.7 | 1111.6 | 1110.5 | 1110.5 | 1111.6 | 1112.7 | 1113.9 | 1115.0 | 1116.1 |
| 162.5° | 1125.8 | 1124.7 | 1123.5 | 1122.4 | 1121.3 | 1121.2 | 1122.1 | 1123.2 | 1124.1 | 1125.1 | 1126.3 |
| 165° | 1140.3 | 1139.1 | 1138.0 | 1136.9 | 1135.8 | 1135.4 | 1136.0 | 1136.6 | 1137.2 | 1137.7 | 1139.0 |
| 167.5° | 1151.0 | 1149.9 | 1148.7 | 1147.6 | 1146.5 | 1146.2 | 1146.8 | 1147.2 | 1147.8 | 1148.3 | 1149.6 |
| 170° | 1157.1 | 1156.0 | 1154.8 | 1153.7 | 1152.6 | 1152.2 | 1152.6 | 1152.9 | 1153.3 | 1153.7 | 1155.0 |
| 172.5° | 1161.1 | 1160.0 | 1158.9 | 1157.8 | 1156.7 | 1156.3 | 1156.7 | 1157.0 | 1157.4 | 1157.8 | 1159.0 |
| 175° | 1166.3 | 1165.1 | 1163.7 | 1162.4 | 1161.1 | 1160.6 | 1161.0 | 1161.4 | 1161.7 | 1162.1 | 1163.5 |
| 177.5° | 1167.2 | 1166.2 | 1165.1 | 1164.0 | 1163.0 | 1162.5 | 1162.7 | 1162.8 | 1163.0 | 1163.2 | 1164.2 |
| 180° | 1163.8 | 1163.8 | 1163.8 | 1163.8 | 1163.8 | 1163.8 | 1163.8 | 1163.8 | 1163.8 | 1163.8 | 1163.8 |



TEST NUMBER: P331642-927

CATALOG NUMBER: S122RDIP-S290D1080U927-4F0-1E-UDD-F

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 397.7 | 397.7 | 397.7 | 397.7 | 397.7 | 397.7 | 397.7 | 397.7 |
| 2.5° | 395.8 | 396.4 | 397.0 | 397.3 | 397.2 | 397.0 | 396.9 | 396.8 |
| 5° | 392.6 | 393.3 | 394.0 | 394.3 | 394.0 | 393.8 | 393.6 | 393.3 |
| 7.5° | 386.3 | 386.5 | 386.7 | 386.6 | 386.2 | 385.7 | 385.3 | 384.9 |
| 10° | 379.9 | 379.7 | 379.5 | 379.1 | 378.6 | 378.1 | 377.6 | 377.2 |
| 12.5° | 372.6 | 372.2 | 371.8 | 371.1 | 370.3 | 369.6 | 368.8 | 368.0 |
| 15° | 359.0 | 357.4 | 355.9 | 354.8 | 354.0 | 353.2 | 352.4 | 351.6 |
| 17.5° | 343.6 | 341.7 | 340.0 | 338.4 | 337.0 | 335.6 | 334.2 | 332.9 |
| 20° | 332.9 | 330.8 | 328.8 | 326.9 | 325.2 | 323.4 | 321.7 | 320.0 |
| 22.5° | 321.1 | 318.5 | 315.9 | 313.9 | 312.6 | 311.3 | 310.0 | 308.7 |
| 25° | 301.5 | 298.2 | 294.9 | 292.7 | 291.5 | 290.3 | 289.1 | 287.9 |
| 27.5° | 282.8 | 279.0 | 275.2 | 272.4 | 270.5 | 268.5 | 266.6 | 264.7 |
| 30° | 269.7 | 265.6 | 261.5 | 258.4 | 256.2 | 254.1 | 251.9 | 249.8 |
| 32.5° | 256.4 | 251.8 | 247.1 | 243.8 | 241.8 | 239.7 | 237.7 | 235.7 |
| 35° | 235.8 | 230.7 | 225.6 | 222.2 | 220.5 | 218.7 | 217.0 | 215.2 |
| 37.5° | 215.6 | 210.0 | 204.5 | 200.7 | 198.7 | 196.6 | 194.6 | 192.6 |
| 40° | 202.1 | 196.4 | 190.7 | 186.8 | 184.7 | 182.7 | 180.5 | 178.5 |
| 42.5° | 188.4 | 182.5 | 176.7 | 172.8 | 170.7 | 168.7 | 166.7 | 164.7 |
| 45° | 168.6 | 162.9 | 157.2 | 153.4 | 151.5 | 149.6 | 147.7 | 145.8 |
| 47.5° | 149.2 | 143.6 | 138.0 | 134.3 | 132.5 | 130.8 | 129.0 | 127.3 |
| 50° | 136.9 | 131.3 | 125.8 | 122.2 | 120.6 | 118.9 | 117.2 | 115.5 |
| 52.5° | 125.2 | 119.9 | 114.5 | 111.1 | 109.6 | 108.0 | 106.4 | 104.9 |
| 55° | 107.3 | 102.6 | 97.8 | 94.6 | 93.1 | 91.6 | 90.1 | 88.6 |
| 57.5° | 91.2 | 86.7 | 82.4 | 79.5 | 78.3 | 77.0 | 75.7 | 74.4 |
| 60° | 80.0 | 76.0 | 71.9 | 69.2 | 67.9 | 66.6 | 65.4 | 64.1 |
| 62.5° | 70.3 | 66.5 | 62.6 | 60.2 | 59.4 | 58.7 | 57.9 | 57.1 |
| 65° | 57.2 | 54.4 | 51.7 | 50.2 | 50.0 | 49.7 | 49.5 | 49.3 |
| 67.5° | 46.2 | 44.9 | 43.6 | 42.9 | 42.6 | 42.4 | 42.1 | 41.9 |
| 70° | 40.2 | 39.4 | 38.6 | 38.0 | 37.6 | 37.3 | 37.0 | 36.7 |
| 72.5° | 34.9 | 34.2 | 33.6 | 33.2 | 33.0 | 32.8 | 32.6 | 32.4 |
| 75° | 27.6 | 27.1 | 26.5 | 26.2 | 26.1 | 26.1 | 26.0 | 25.9 |
| 77.5° | 20.9 | 20.6 | 20.3 | 20.1 | 20.0 | 19.8 | 19.7 | 19.6 |
| 80° | 16.6 | 16.3 | 16.0 | 15.8 | 15.8 | 15.8 | 15.8 | 15.8 |
| 82.5° | 12.6 | 12.4 | 12.2 | 12.1 | 12.1 | 12.1 | 12.1 | 12.1 |
| 85° | 6.8 | 6.8 | 6.8 | 6.8 | 6.8 | 6.8 | 6.8 | 6.8 |
| 87.5° | 5.9 | 6.0 | 6.2 | 6.3 | 6.3 | 6.4 | 6.5 | 6.6 |
| 90° | 18.7 | 19.6 | 20.6 | 21.2 | 21.6 | 22.0 | 22.3 | 22.7 |
| 92.5° | 20.5 | 21.0 | 21.5 | 21.9 | 22.1 | 22.3 | 22.5 | 22.7 |
| 95° | 34.7 | 35.6 | 36.6 | 37.0 | 36.8 | 36.6 | 36.4 | 36.2 |
| 97.5° | 45.5 | 46.2 | 47.0 | 47.5 | 47.7 | 47.9 | 48.1 | 48.3 |
| 100° | 51.0 | 52.5 | 54.0 | 54.9 | 55.3 | 55.7 | 56.1 | 56.4 |
| 102.5° | 53.2 | 55.2 | 57.1 | 58.4 | 58.9 | 59.4 | 60.0 | 60.4 |
| 105° | 55.5 | 57.5 | 59.6 | 61.0 | 61.8 | 62.5 | 63.2 | 64.0 |
| 107.5° | 67.7 | 65.6 | 63.5 | 62.9 | 63.6 | 64.3 | 65.1 | 65.8 |
| 110° | 110.0 | 91.3 | 72.5 | 63.5 | 64.2 | 65.0 | 65.8 | 66.5 |



TEST NUMBER: P331642-927

CATALOG NUMBER: S122RDIP-S290D1080U927-4F0-1E-UDD-F

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 235.2 | 166.9 | 98.6 | 64.8 | 65.4 | 66.0 | 66.6 | 67.2 |
| 115° | 346.3 | 259.7 | 173.0 | 122.9 | 109.5 | 96.0 | 82.5 | 69.1 |
| 117.5° | 533.6 | 512.6 | 491.7 | 459.1 | 414.8 | 370.5 | 326.2 | 281.9 |
| 120° | 621.8 | 624.0 | 626.3 | 614.7 | 589.5 | 564.2 | 538.9 | 513.7 |
| 122.5° | 659.7 | 661.1 | 662.4 | 660.6 | 655.8 | 650.9 | 645.9 | 641.0 |
| 125° | 714.2 | 715.5 | 716.8 | 717.8 | 718.4 | 718.9 | 719.5 | 720.0 |
| 127.5° | 764.6 | 766.5 | 768.4 | 769.4 | 769.5 | 769.7 | 769.8 | 769.8 |
| 130° | 796.5 | 798.6 | 800.7 | 801.6 | 801.5 | 801.2 | 801.1 | 800.9 |
| 132.5° | 827.6 | 829.4 | 831.2 | 831.9 | 831.7 | 831.6 | 831.4 | 831.2 |
| 135° | 872.0 | 873.9 | 875.7 | 876.5 | 876.1 | 875.7 | 875.4 | 875.0 |
| 137.5° | 913.1 | 915.0 | 916.8 | 917.4 | 916.8 | 916.2 | 915.5 | 914.9 |
| 140° | 939.8 | 941.5 | 943.2 | 943.6 | 942.6 | 941.7 | 940.7 | 939.8 |
| 142.5° | 964.4 | 966.0 | 967.5 | 967.8 | 966.9 | 965.9 | 965.0 | 964.1 |
| 145° | 998.9 | 1000.1 | 1001.5 | 1001.6 | 1000.8 | 999.8 | 998.9 | 997.9 |
| 147.5° | 1028.8 | 1029.8 | 1030.8 | 1030.9 | 1030.1 | 1029.3 | 1028.5 | 1027.7 |
| 150° | 1047.3 | 1048.5 | 1049.6 | 1049.6 | 1048.7 | 1047.8 | 1046.9 | 1045.9 |
| 152.5° | 1064.1 | 1065.3 | 1066.4 | 1066.4 | 1065.1 | 1063.9 | 1062.6 | 1061.4 |
| 155° | 1086.9 | 1088.1 | 1089.2 | 1088.9 | 1087.4 | 1086.0 | 1084.5 | 1083.0 |
| 157.5° | 1106.0 | 1107.3 | 1108.6 | 1108.5 | 1107.1 | 1105.6 | 1104.1 | 1102.6 |
| 160° | 1117.2 | 1118.3 | 1119.4 | 1119.4 | 1118.1 | 1116.7 | 1115.5 | 1114.1 |
| 162.5° | 1127.6 | 1128.9 | 1130.2 | 1130.0 | 1128.4 | 1126.8 | 1125.1 | 1123.6 |
| 165° | 1140.3 | 1141.6 | 1143.0 | 1143.0 | 1141.6 | 1140.3 | 1139.0 | 1137.7 |
| 167.5° | 1151.0 | 1152.2 | 1153.6 | 1153.3 | 1151.7 | 1150.0 | 1148.3 | 1146.6 |
| 170° | 1156.3 | 1157.6 | 1159.0 | 1158.7 | 1157.1 | 1155.4 | 1153.7 | 1152.0 |
| 172.5° | 1160.4 | 1161.7 | 1163.0 | 1162.8 | 1161.1 | 1159.4 | 1157.8 | 1156.0 |
| 175° | 1164.7 | 1166.1 | 1167.4 | 1167.1 | 1165.2 | 1163.3 | 1161.5 | 1159.6 |
| 177.5° | 1165.2 | 1166.3 | 1167.4 | 1167.2 | 1165.9 | 1164.5 | 1163.2 | 1161.8 |
| 180° | 1163.8 | 1163.8 | 1163.8 | 1163.8 | 1163.8 | 1163.8 | 1163.8 | 1163.8 |

(END OF REPORT)