

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: P331503-830

Luminaire Tested: **S122DIW-S485D710U830-4F0-1E-UDD-D**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331503-830
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-S485D710U830-4F0-1E-UDD-D
Description: DEFINE 2 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 485 LUMENS PER FOOT, DROP SATIN WHITE DIFFUSER
UPLIGHT 710 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4527.6 lumens
Efficiency: N/A
Efficacy: 120.4 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

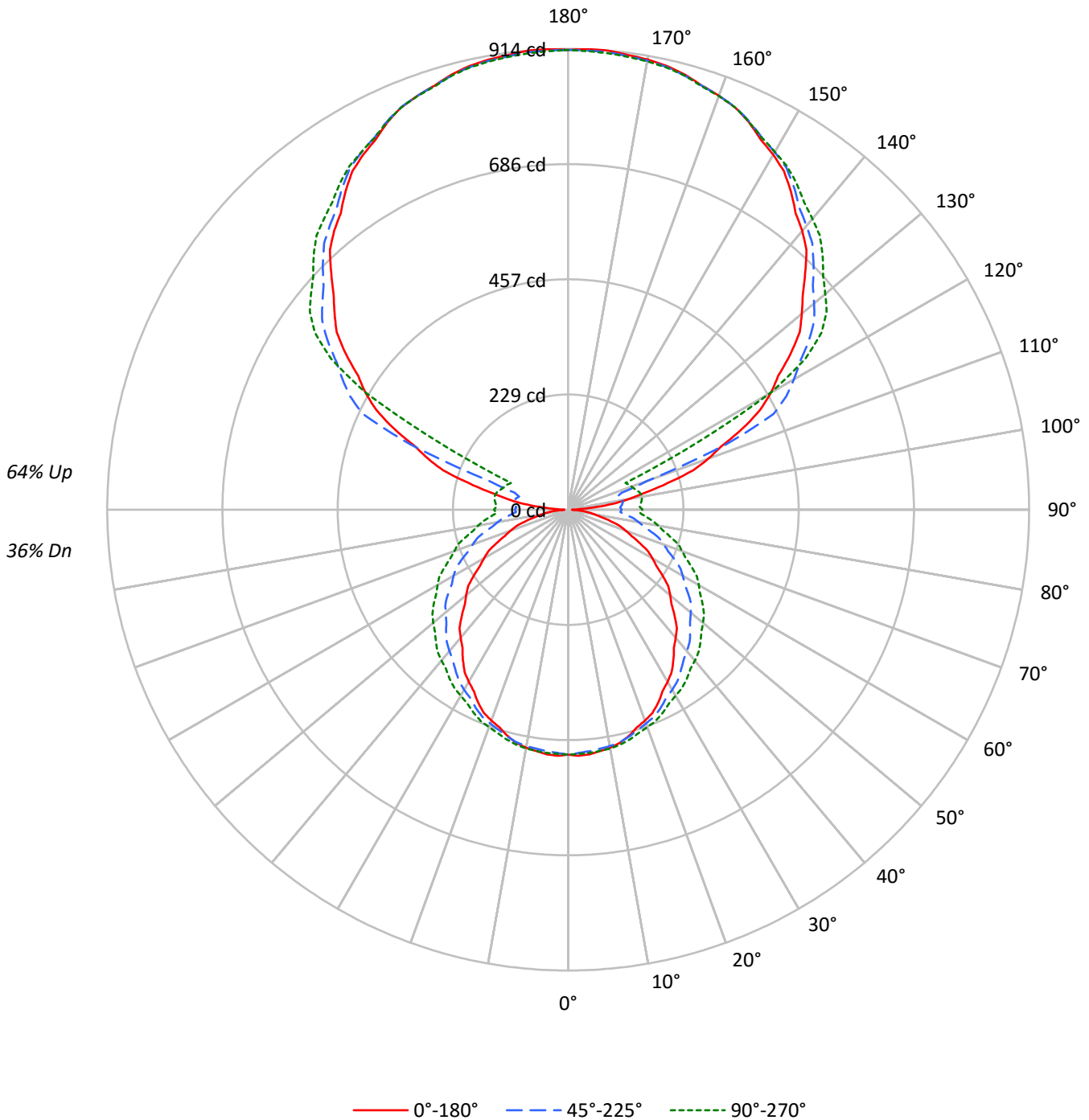
Input Watts (W): 37.6
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P331503-830

CATALOG NUMBER: S122DIW-S485D710U830-4F0-1E-UDD-D

Luminous Intensity Polar Plot





TEST NUMBER: P331503-830

CATALOG NUMBER: S122DIW-S485D710U830-4F0-1E-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 | 104 | 104 | 104 | 104 | 94 | 94 | 94 | 94 | 76 | 76 | 76 | 59 | 59 | 59 | 44 | 44 | 44 | 36 |
| 1 | 94 | 89 | 85 | 81 | 84 | 80 | 77 | 74 | 65 | 62 | 60 | 50 | 48 | 47 | 37 | 36 | 35 | 28 |
| 2 | 85 | 77 | 71 | 65 | 76 | 70 | 64 | 59 | 56 | 52 | 49 | 43 | 41 | 38 | 32 | 30 | 28 | 23 |
| 3 | 77 | 67 | 60 | 54 | 69 | 61 | 54 | 49 | 49 | 44 | 40 | 38 | 35 | 32 | 28 | 26 | 24 | 19 |
| 4 | 70 | 59 | 51 | 45 | 63 | 54 | 47 | 41 | 43 | 38 | 34 | 34 | 30 | 27 | 25 | 22 | 20 | 16 |
| 5 | 64 | 53 | 44 | 38 | 58 | 48 | 40 | 35 | 39 | 33 | 29 | 30 | 26 | 23 | 22 | 19 | 17 | 14 |
| 6 | 59 | 47 | 39 | 33 | 53 | 43 | 35 | 30 | 35 | 29 | 25 | 27 | 23 | 20 | 20 | 17 | 15 | 12 |
| 7 | 55 | 42 | 34 | 29 | 49 | 38 | 31 | 26 | 31 | 26 | 22 | 24 | 20 | 18 | 18 | 15 | 13 | 10 |
| 8 | 50 | 38 | 30 | 25 | 45 | 35 | 28 | 23 | 28 | 23 | 19 | 22 | 18 | 15 | 17 | 14 | 12 | 9 |
| 9 | 47 | 35 | 27 | 22 | 42 | 32 | 25 | 20 | 26 | 21 | 17 | 20 | 17 | 14 | 15 | 13 | 11 | 8 |
| 10 | 44 | 32 | 24 | 20 | 39 | 29 | 23 | 18 | 24 | 19 | 15 | 19 | 15 | 12 | 14 | 11 | 10 | 7 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 7842 | 7842 | 7842 |
| 5° | 7880 | 7549 | 7520 |
| 10° | 7831 | 7327 | 7244 |
| 15° | 7723 | 7090 | 6952 |
| 20° | 7587 | 6836 | 6671 |
| 25° | 7453 | 6592 | 6417 |
| 30° | 7262 | 6342 | 6160 |
| 35° | 7069 | 6100 | 5981 |
| 40° | 6869 | 5895 | 5801 |
| 45° | 6677 | 5709 | 5648 |
| 50° | 6471 | 5541 | 5495 |
| 55° | 6254 | 5363 | 5341 |
| 60° | 5990 | 5177 | 5178 |
| 65° | 5716 | 4959 | 4983 |
| 70° | 5407 | 4723 | 4775 |
| 75° | 5013 | 4495 | 4582 |
| 80° | 4391 | 4260 | 4385 |
| 85° | 3800 | 4054 | 4232 |



TEST NUMBER: P331503-830

CATALOG NUMBER: S122DIW-S485D710U830-4F0-1E-UDD-D

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 46.0 | 1.0 |
| 10°-20° | 132.0 | 2.9 |
| 20°-30° | 200.0 | 4.4 |
| 30°-40° | 243.6 | 5.4 |
| 40°-50° | 262.1 | 5.8 |
| 50°-60° | 254.5 | 5.6 |
| 60°-70° | 222.2 | 4.9 |
| 70°-80° | 171.1 | 3.8 |
| 80°-90° | 117.1 | 2.6 |
| 90°-100° | 109.5 | 2.4 |
| 100°-110° | 169.3 | 3.7 |
| 110°-120° | 336.3 | 7.4 |
| 120°-130° | 513.5 | 11.3 |
| 130°-140° | 532.4 | 11.8 |
| 140°-150° | 488.1 | 10.8 |
| 150°-160° | 391.2 | 8.6 |
| 160°-170° | 252.1 | 5.6 |
| 170°-180° | 86.8 | 1.9 |
| 0°-30° | 378.0 | 8.3 |
| 0°-40° | 621.6 | 13.7 |
| 0°-60° | 1138.1 | 25.1 |
| 0°-90° | 1648.5 | 36.4 |
| 90°-120° | 615.1 | 13.6 |
| 90°-150° | 2149.1 | 47.5 |
| 90°-180° | 2879.0 | 63.6 |
| 0°-180° | 4527.6 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|-----|-------|-----|-------|-----|------|
| 0° | 486 | 486 | 486 | 486 | 486 | |
| 5° | 487 | 485 | 481 | 485 | 484 | 46 |
| 15° | 465 | 466 | 466 | 472 | 472 | 131 |
| 25° | 422 | 427 | 434 | 442 | 444 | 194 |
| 35° | 364 | 376 | 389 | 404 | 410 | 227 |
| 45° | 298 | 318 | 342 | 363 | 371 | 230 |
| 55° | 229 | 255 | 291 | 315 | 325 | 204 |
| 65° | 156 | 191 | 232 | 260 | 270 | 155 |
| 75° | 87 | 126 | 171 | 200 | 210 | 92 |
| 85° | 25 | 69 | 114 | 142 | 153 | 27 |
| 90° | 8 | 56 | 106 | 136 | 147 | 7 |
| 95° | 48 | 62 | 107 | 136 | 144 | 57 |
| 105° | 204 | 234 | 101 | 131 | 143 | 218 |
| 115° | 382 | 403 | 449 | 178 | 125 | 376 |
| 125° | 538 | 548 | 582 | 604 | 613 | 480 |
| 135° | 664 | 675 | 688 | 708 | 714 | 513 |
| 145° | 770 | 770 | 781 | 789 | 790 | 482 |
| 155° | 848 | 843 | 850 | 853 | 849 | 391 |
| 165° | 893 | 890 | 892 | 896 | 892 | 252 |
| 175° | 914 | 910 | 911 | 915 | 909 | 87 |
| 180° | 912 | 912 | 912 | 912 | 912 | |



TEST NUMBER: P331503-830

CATALOG NUMBER: S122DIW-S485D710U830-4F0-1E-UDD-D

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 485.7 | 485.7 | 485.7 | 485.7 | 485.7 | 485.7 | 485.7 | 485.7 | 485.7 | 485.7 | 485.7 |
| 2.5° | 488.5 | 488.1 | 487.8 | 487.4 | 487.0 | 486.4 | 485.5 | 484.7 | 483.8 | 482.9 | 483.5 |
| 5° | 487.1 | 486.6 | 486.2 | 485.7 | 485.2 | 484.6 | 483.6 | 482.7 | 481.7 | 480.8 | 481.7 |
| 7.5° | 482.8 | 482.4 | 482.1 | 481.8 | 481.5 | 481.0 | 480.2 | 479.6 | 478.8 | 478.1 | 479.2 |
| 10° | 479.4 | 479.1 | 478.7 | 478.4 | 478.2 | 477.8 | 477.3 | 476.8 | 476.4 | 475.9 | 477.1 |
| 12.5° | 473.7 | 473.8 | 473.9 | 473.9 | 474.0 | 473.8 | 473.5 | 473.2 | 472.8 | 472.5 | 473.7 |
| 15° | 464.6 | 464.9 | 465.2 | 465.5 | 465.8 | 466.0 | 466.0 | 466.0 | 466.0 | 466.0 | 467.4 |
| 17.5° | 452.8 | 453.5 | 454.1 | 454.8 | 455.4 | 456.0 | 456.5 | 456.9 | 457.5 | 458.0 | 459.4 |
| 20° | 444.9 | 445.6 | 446.5 | 447.2 | 448.0 | 448.7 | 449.3 | 450.0 | 450.6 | 451.2 | 452.9 |
| 22.5° | 436.4 | 437.3 | 438.3 | 439.1 | 440.1 | 440.9 | 441.9 | 442.7 | 443.6 | 444.5 | 446.2 |
| 25° | 422.4 | 423.5 | 424.5 | 425.7 | 426.7 | 428.0 | 429.4 | 430.8 | 432.3 | 433.6 | 435.5 |
| 27.5° | 405.5 | 407.3 | 409.1 | 410.9 | 412.6 | 414.3 | 415.9 | 417.6 | 419.2 | 420.9 | 423.3 |
| 30° | 394.2 | 396.2 | 398.2 | 400.3 | 402.4 | 404.4 | 406.4 | 408.4 | 410.5 | 412.5 | 415.0 |
| 32.5° | 381.8 | 384.1 | 386.3 | 388.7 | 391.0 | 393.3 | 395.7 | 398.1 | 400.5 | 402.9 | 405.8 |
| 35° | 363.9 | 366.6 | 369.3 | 371.9 | 374.6 | 377.4 | 380.3 | 383.3 | 386.3 | 389.3 | 392.7 |
| 37.5° | 344.5 | 347.6 | 350.6 | 353.7 | 356.8 | 360.2 | 364.1 | 367.9 | 371.7 | 375.6 | 379.5 |
| 40° | 331.6 | 335.0 | 338.5 | 341.9 | 345.3 | 349.1 | 353.4 | 357.6 | 361.8 | 366.1 | 370.1 |
| 42.5° | 319.1 | 322.6 | 326.0 | 329.5 | 332.9 | 337.1 | 342.0 | 346.8 | 351.7 | 356.5 | 360.9 |
| 45° | 298.5 | 302.7 | 306.9 | 311.1 | 315.4 | 320.2 | 325.6 | 331.1 | 336.7 | 342.1 | 346.9 |
| 47.5° | 278.1 | 282.7 | 287.3 | 291.8 | 296.4 | 302.0 | 308.4 | 314.8 | 321.2 | 327.6 | 332.7 |
| 50° | 264.0 | 268.8 | 273.7 | 278.5 | 283.3 | 289.3 | 296.3 | 303.4 | 310.5 | 317.4 | 322.8 |
| 52.5° | 250.4 | 255.5 | 260.6 | 265.8 | 270.9 | 277.1 | 284.6 | 291.9 | 299.4 | 306.8 | 312.2 |
| 55° | 228.8 | 234.4 | 240.1 | 245.6 | 251.3 | 258.2 | 266.4 | 274.5 | 282.6 | 290.7 | 296.3 |
| 57.5° | 207.4 | 213.8 | 220.1 | 226.4 | 232.8 | 240.1 | 248.4 | 256.7 | 264.9 | 273.2 | 279.4 |
| 60° | 192.2 | 198.9 | 205.7 | 212.4 | 219.0 | 226.9 | 235.8 | 244.7 | 253.6 | 262.6 | 268.5 |
| 62.5° | 178.6 | 185.6 | 192.7 | 199.6 | 206.6 | 214.5 | 223.4 | 232.3 | 241.3 | 250.2 | 256.5 |
| 65° | 156.3 | 163.9 | 171.6 | 179.3 | 186.9 | 195.4 | 204.6 | 213.9 | 223.1 | 232.3 | 238.7 |
| 67.5° | 135.7 | 143.7 | 151.7 | 159.8 | 167.8 | 176.4 | 186.0 | 195.4 | 204.8 | 214.2 | 220.7 |
| 70° | 121.1 | 129.2 | 137.3 | 145.4 | 153.6 | 162.5 | 172.2 | 181.9 | 191.6 | 201.3 | 208.0 |
| 72.5° | 107.5 | 115.9 | 124.3 | 132.7 | 141.1 | 150.2 | 160.0 | 169.8 | 179.6 | 189.5 | 196.1 |
| 75° | 86.6 | 95.4 | 104.1 | 112.8 | 121.6 | 131.0 | 141.0 | 151.0 | 161.1 | 171.1 | 177.8 |
| 77.5° | 66.4 | 75.5 | 84.6 | 93.8 | 103.0 | 112.6 | 122.8 | 133.0 | 143.2 | 153.4 | 160.0 |
| 80° | 52.8 | 62.3 | 71.9 | 81.4 | 91.0 | 100.9 | 111.0 | 121.1 | 131.3 | 141.5 | 148.1 |
| 82.5° | 41.6 | 51.0 | 60.3 | 69.7 | 79.2 | 89.1 | 99.3 | 109.6 | 119.9 | 130.3 | 136.8 |
| 85° | 25.4 | 35.1 | 44.8 | 54.5 | 64.1 | 74.0 | 84.0 | 94.0 | 104.1 | 114.0 | 120.6 |
| 87.5° | 13.9 | 23.6 | 33.2 | 42.9 | 52.5 | 62.5 | 72.7 | 82.9 | 93.2 | 103.4 | 110.0 |
| 90° | 7.7 | 18.4 | 29.0 | 39.8 | 50.4 | 61.4 | 72.6 | 83.8 | 94.9 | 106.1 | 113.1 |
| 92.5° | 19.8 | 28.1 | 36.4 | 44.7 | 53.0 | 62.3 | 72.5 | 82.8 | 92.9 | 103.1 | 109.7 |
| 95° | 48.5 | 51.0 | 53.5 | 56.1 | 58.5 | 65.0 | 75.4 | 85.9 | 96.2 | 106.7 | 113.4 |
| 97.5° | 90.0 | 82.9 | 75.9 | 68.7 | 61.6 | 63.8 | 75.2 | 86.5 | 97.9 | 109.3 | 115.7 |
| 100° | 121.7 | 107.4 | 93.1 | 78.8 | 64.5 | 63.0 | 74.3 | 85.5 | 96.7 | 108.0 | 115.0 |
| 102.5° | 156.0 | 157.0 | 158.1 | 159.1 | 160.1 | 154.5 | 142.1 | 129.8 | 117.4 | 105.1 | 112.3 |
| 105° | 204.2 | 213.0 | 222.0 | 230.9 | 239.9 | 228.4 | 196.5 | 164.6 | 132.7 | 100.8 | 107.9 |
| 107.5° | 259.8 | 266.9 | 274.2 | 281.3 | 288.5 | 272.0 | 231.8 | 191.5 | 151.4 | 111.1 | 114.7 |
| 110° | 295.1 | 301.3 | 307.6 | 313.8 | 320.0 | 305.7 | 271.0 | 236.3 | 201.6 | 166.8 | 157.2 |



TEST NUMBER: P331503-830

CATALOG NUMBER: S122DIW-S485D710U830-4F0-1E-UDD-D

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 328.9 | 334.2 | 339.6 | 345.0 | 350.3 | 351.4 | 348.3 | 345.1 | 341.9 | 338.7 | 290.2 |
| 115° | 382.2 | 386.4 | 390.7 | 394.8 | 399.1 | 406.5 | 417.3 | 427.9 | 438.7 | 449.3 | 386.2 |
| 117.5° | 429.1 | 433.1 | 437.0 | 440.9 | 444.8 | 451.3 | 460.3 | 469.3 | 478.3 | 487.4 | 475.6 |
| 120° | 464.0 | 466.8 | 469.7 | 472.5 | 475.3 | 481.2 | 490.0 | 499.0 | 507.8 | 516.7 | 522.9 |
| 122.5° | 493.5 | 496.2 | 498.7 | 501.2 | 503.8 | 509.4 | 518.2 | 527.0 | 535.7 | 544.5 | 549.8 |
| 125° | 537.8 | 539.8 | 541.7 | 543.6 | 545.4 | 550.4 | 558.1 | 565.9 | 573.7 | 581.5 | 586.7 |
| 127.5° | 578.6 | 580.6 | 582.5 | 584.5 | 586.4 | 590.5 | 596.6 | 602.8 | 608.9 | 614.9 | 620.3 |
| 130° | 604.5 | 606.7 | 608.9 | 611.1 | 613.2 | 616.8 | 621.7 | 626.6 | 631.5 | 636.4 | 641.8 |
| 132.5° | 630.8 | 632.7 | 634.5 | 636.4 | 638.2 | 641.2 | 645.4 | 649.5 | 653.7 | 657.8 | 662.8 |
| 135° | 664.5 | 666.8 | 669.2 | 671.6 | 673.9 | 676.5 | 679.4 | 682.3 | 685.1 | 688.1 | 692.8 |
| 137.5° | 699.2 | 700.8 | 702.4 | 704.1 | 705.7 | 707.6 | 709.7 | 711.9 | 714.1 | 716.2 | 720.6 |
| 140° | 721.9 | 722.9 | 724.0 | 724.9 | 725.9 | 727.5 | 729.3 | 731.3 | 733.2 | 735.2 | 739.0 |
| 142.5° | 740.9 | 741.8 | 742.7 | 743.6 | 744.5 | 745.9 | 747.8 | 749.7 | 751.7 | 753.6 | 756.8 |
| 145° | 770.1 | 769.9 | 769.8 | 769.6 | 769.4 | 770.6 | 773.1 | 775.6 | 778.1 | 780.6 | 782.5 |
| 147.5° | 796.0 | 795.5 | 794.9 | 794.4 | 793.8 | 794.8 | 797.2 | 799.7 | 802.1 | 804.6 | 805.5 |
| 150° | 812.9 | 811.9 | 810.9 | 809.8 | 808.8 | 809.5 | 811.8 | 814.2 | 816.5 | 818.9 | 819.7 |
| 152.5° | 827.2 | 826.0 | 824.9 | 823.7 | 822.6 | 823.1 | 825.4 | 827.6 | 829.8 | 832.1 | 832.9 |
| 155° | 847.9 | 846.6 | 845.3 | 844.0 | 842.6 | 842.8 | 844.6 | 846.3 | 848.1 | 849.9 | 850.7 |
| 157.5° | 864.1 | 863.0 | 861.9 | 860.7 | 859.7 | 859.7 | 860.9 | 862.1 | 863.4 | 864.6 | 865.6 |
| 160° | 873.6 | 872.7 | 871.9 | 871.0 | 870.1 | 870.1 | 871.0 | 871.9 | 872.7 | 873.6 | 874.5 |
| 162.5° | 882.0 | 881.2 | 880.3 | 879.4 | 878.5 | 878.4 | 879.2 | 880.1 | 880.8 | 881.6 | 882.5 |
| 165° | 893.4 | 892.5 | 891.6 | 890.8 | 889.9 | 889.7 | 890.1 | 890.5 | 891.0 | 891.5 | 892.5 |
| 167.5° | 901.8 | 901.0 | 900.1 | 899.2 | 898.3 | 898.1 | 898.5 | 898.9 | 899.4 | 899.8 | 900.8 |
| 170° | 906.6 | 905.7 | 904.8 | 904.0 | 903.1 | 902.8 | 903.1 | 903.4 | 903.7 | 904.0 | 905.0 |
| 172.5° | 909.7 | 908.9 | 908.0 | 907.1 | 906.3 | 906.0 | 906.3 | 906.5 | 906.8 | 907.1 | 908.1 |
| 175° | 913.9 | 912.9 | 911.8 | 910.8 | 909.7 | 909.4 | 909.6 | 910.0 | 910.3 | 910.6 | 911.6 |
| 177.5° | 914.5 | 913.7 | 912.9 | 912.1 | 911.3 | 910.9 | 911.0 | 911.2 | 911.3 | 911.3 | 912.2 |
| 180° | 911.9 | 911.9 | 911.9 | 911.9 | 911.9 | 911.9 | 911.9 | 911.9 | 911.9 | 911.9 | 911.9 |



TEST NUMBER: P331503-830

CATALOG NUMBER: S122DIW-S485D710U830-4F0-1E-UDD-D

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 485.7 | 485.7 | 485.7 | 485.7 | 485.7 | 485.7 | 485.7 | 485.7 |
| 2.5° | 484.2 | 484.7 | 485.4 | 485.6 | 485.3 | 485.1 | 484.8 | 484.6 |
| 5° | 482.7 | 483.6 | 484.6 | 484.9 | 484.7 | 484.7 | 484.5 | 484.3 |
| 7.5° | 480.3 | 481.5 | 482.6 | 483.1 | 483.0 | 482.8 | 482.6 | 482.5 |
| 10° | 478.3 | 479.6 | 480.9 | 481.5 | 481.3 | 481.1 | 481.0 | 480.8 |
| 12.5° | 474.9 | 476.3 | 477.5 | 478.1 | 477.9 | 477.7 | 477.6 | 477.4 |
| 15° | 468.8 | 470.2 | 471.6 | 472.2 | 472.1 | 471.9 | 471.7 | 471.6 |
| 17.5° | 460.9 | 462.4 | 463.8 | 464.6 | 464.6 | 464.6 | 464.6 | 464.6 |
| 20° | 454.7 | 456.4 | 458.1 | 458.9 | 458.9 | 458.9 | 458.9 | 458.9 |
| 22.5° | 447.9 | 449.6 | 451.4 | 452.3 | 452.6 | 452.8 | 453.1 | 453.4 |
| 25° | 437.3 | 439.2 | 441.1 | 442.3 | 442.8 | 443.3 | 443.7 | 444.2 |
| 27.5° | 425.7 | 428.1 | 430.5 | 431.8 | 432.2 | 432.5 | 432.8 | 433.2 |
| 30° | 417.5 | 420.0 | 422.5 | 424.0 | 424.4 | 424.9 | 425.4 | 425.8 |
| 32.5° | 408.7 | 411.5 | 414.4 | 416.3 | 417.2 | 418.0 | 418.9 | 419.7 |
| 35° | 396.2 | 399.6 | 403.0 | 405.3 | 406.4 | 407.5 | 408.6 | 409.7 |
| 37.5° | 383.2 | 387.1 | 390.9 | 393.3 | 394.5 | 395.7 | 396.8 | 398.0 |
| 40° | 374.2 | 378.2 | 382.3 | 385.0 | 386.4 | 387.9 | 389.3 | 390.7 |
| 42.5° | 365.3 | 369.8 | 374.2 | 377.2 | 378.5 | 379.9 | 381.4 | 382.8 |
| 45° | 351.9 | 356.7 | 361.5 | 364.7 | 366.3 | 367.9 | 369.4 | 371.0 |
| 47.5° | 337.7 | 342.8 | 347.9 | 351.3 | 353.0 | 354.7 | 356.5 | 358.2 |
| 50° | 328.1 | 333.4 | 338.7 | 342.2 | 344.0 | 345.7 | 347.4 | 349.1 |
| 52.5° | 317.6 | 323.1 | 328.6 | 332.2 | 334.0 | 335.9 | 337.7 | 339.6 |
| 55° | 302.0 | 307.6 | 313.2 | 317.1 | 319.1 | 321.1 | 323.2 | 325.2 |
| 57.5° | 285.4 | 291.4 | 297.6 | 301.6 | 303.7 | 305.8 | 307.8 | 309.9 |
| 60° | 274.5 | 280.4 | 286.3 | 290.4 | 292.6 | 294.8 | 297.0 | 299.2 |
| 62.5° | 262.8 | 269.1 | 275.4 | 279.7 | 281.7 | 283.8 | 285.9 | 287.9 |
| 65° | 245.2 | 251.6 | 258.0 | 262.2 | 264.2 | 266.3 | 268.2 | 270.3 |
| 67.5° | 227.2 | 233.7 | 240.2 | 244.5 | 246.6 | 248.7 | 250.9 | 253.0 |
| 70° | 214.8 | 221.5 | 228.2 | 232.5 | 234.4 | 236.3 | 238.2 | 240.1 |
| 72.5° | 202.7 | 209.3 | 215.9 | 220.4 | 222.5 | 224.8 | 227.1 | 229.3 |
| 75° | 184.5 | 191.2 | 197.9 | 202.4 | 204.3 | 206.4 | 208.4 | 210.5 |
| 77.5° | 166.7 | 173.4 | 180.1 | 184.5 | 186.7 | 188.9 | 191.1 | 193.3 |
| 80° | 154.7 | 161.2 | 167.8 | 172.1 | 174.4 | 176.5 | 178.7 | 180.9 |
| 82.5° | 143.4 | 150.0 | 156.5 | 160.8 | 162.9 | 164.9 | 167.0 | 169.1 |
| 85° | 127.1 | 133.7 | 140.3 | 144.7 | 146.8 | 149.1 | 151.3 | 153.4 |
| 87.5° | 116.5 | 123.0 | 129.6 | 133.8 | 135.9 | 138.0 | 140.1 | 142.1 |
| 90° | 120.1 | 127.1 | 134.0 | 138.6 | 140.8 | 143.0 | 145.2 | 147.3 |
| 92.5° | 116.2 | 122.7 | 129.2 | 133.5 | 135.5 | 137.6 | 139.7 | 141.7 |
| 95° | 120.1 | 126.7 | 133.4 | 137.6 | 139.3 | 141.1 | 142.8 | 144.5 |
| 97.5° | 122.1 | 128.5 | 134.9 | 139.0 | 141.1 | 143.1 | 145.1 | 147.1 |
| 100° | 122.0 | 128.8 | 135.8 | 140.3 | 142.3 | 144.4 | 146.4 | 148.4 |
| 102.5° | 119.5 | 126.7 | 133.8 | 138.6 | 140.6 | 142.8 | 145.0 | 147.0 |
| 105° | 115.0 | 122.1 | 129.1 | 133.8 | 136.1 | 138.5 | 140.7 | 143.1 |
| 107.5° | 118.4 | 122.0 | 125.5 | 128.6 | 130.8 | 133.2 | 135.4 | 137.8 |
| 110° | 147.5 | 137.9 | 128.2 | 124.5 | 126.9 | 129.1 | 131.5 | 133.7 |



TEST NUMBER: P331503-830

CATALOG NUMBER: S122DIW-S485D710U830-4F0-1E-UDD-D

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 241.8 | 193.2 | 144.8 | 121.6 | 123.8 | 126.0 | 128.2 | 130.4 |
| 115° | 322.9 | 259.8 | 196.5 | 160.5 | 151.7 | 142.9 | 134.0 | 125.2 |
| 117.5° | 463.8 | 452.0 | 440.3 | 417.7 | 384.7 | 351.6 | 318.5 | 285.4 |
| 120° | 529.0 | 535.2 | 541.3 | 535.4 | 517.3 | 499.2 | 481.1 | 463.1 |
| 122.5° | 555.2 | 560.4 | 565.7 | 567.2 | 564.9 | 562.5 | 560.1 | 557.7 |
| 125° | 592.0 | 597.2 | 602.5 | 606.1 | 607.8 | 609.7 | 611.6 | 613.4 |
| 127.5° | 625.7 | 631.1 | 636.5 | 639.9 | 641.3 | 642.8 | 644.2 | 645.7 |
| 130° | 647.1 | 652.5 | 657.9 | 661.1 | 662.2 | 663.3 | 664.4 | 665.5 |
| 132.5° | 667.8 | 672.9 | 677.9 | 680.9 | 682.0 | 683.2 | 684.2 | 685.3 |
| 135° | 697.6 | 702.3 | 707.0 | 709.9 | 710.9 | 711.8 | 712.8 | 713.7 |
| 137.5° | 724.9 | 729.2 | 733.6 | 735.9 | 736.5 | 737.1 | 737.6 | 738.2 |
| 140° | 742.8 | 746.6 | 750.5 | 752.4 | 752.6 | 752.8 | 753.1 | 753.3 |
| 142.5° | 760.0 | 763.2 | 766.4 | 768.0 | 768.1 | 768.2 | 768.3 | 768.4 |
| 145° | 784.5 | 786.5 | 788.4 | 789.5 | 789.5 | 789.6 | 789.6 | 789.7 |
| 147.5° | 806.3 | 807.3 | 808.1 | 808.5 | 808.2 | 807.9 | 807.8 | 807.5 |
| 150° | 820.6 | 821.5 | 822.4 | 822.5 | 821.7 | 821.0 | 820.2 | 819.5 |
| 152.5° | 833.8 | 834.7 | 835.6 | 835.6 | 834.5 | 833.6 | 832.6 | 831.6 |
| 155° | 851.6 | 852.5 | 853.4 | 853.2 | 852.1 | 850.9 | 849.7 | 848.6 |
| 157.5° | 866.7 | 867.6 | 868.6 | 868.6 | 867.4 | 866.3 | 865.2 | 863.9 |
| 160° | 875.3 | 876.3 | 877.1 | 877.0 | 876.0 | 875.0 | 874.0 | 873.0 |
| 162.5° | 883.5 | 884.5 | 885.5 | 885.4 | 884.1 | 882.9 | 881.6 | 880.3 |
| 165° | 893.5 | 894.5 | 895.5 | 895.5 | 894.5 | 893.5 | 892.5 | 891.5 |
| 167.5° | 901.8 | 902.9 | 903.8 | 903.7 | 902.4 | 901.1 | 899.8 | 898.4 |
| 170° | 906.1 | 907.0 | 908.0 | 908.0 | 906.6 | 905.3 | 904.0 | 902.7 |
| 172.5° | 909.2 | 910.2 | 911.3 | 911.1 | 909.7 | 908.4 | 907.1 | 905.8 |
| 175° | 912.7 | 913.6 | 914.6 | 914.5 | 912.9 | 911.5 | 910.0 | 908.6 |
| 177.5° | 913.0 | 913.8 | 914.6 | 914.5 | 913.5 | 912.4 | 911.3 | 910.3 |
| 180° | 911.9 | 911.9 | 911.9 | 911.9 | 911.9 | 911.9 | 911.9 | 911.9 |

(END OF REPORT)