

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: P332153-940

Luminaire Tested: **S123DIW-S775D460U940-4F0-1E-UDD-D1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332153-940
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-9,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S123DIW-S775D460U940-4F0-1E-UDD-D1
Description: DEFINE 3 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 775 LUMENS PER FOOT, DROP SATIN WHITE DIFFUSER
UPLIGHT 460 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4307.1 lumens
Efficiency: N/A
Efficacy: 114.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.08')
CIE Type: Semi-Direct

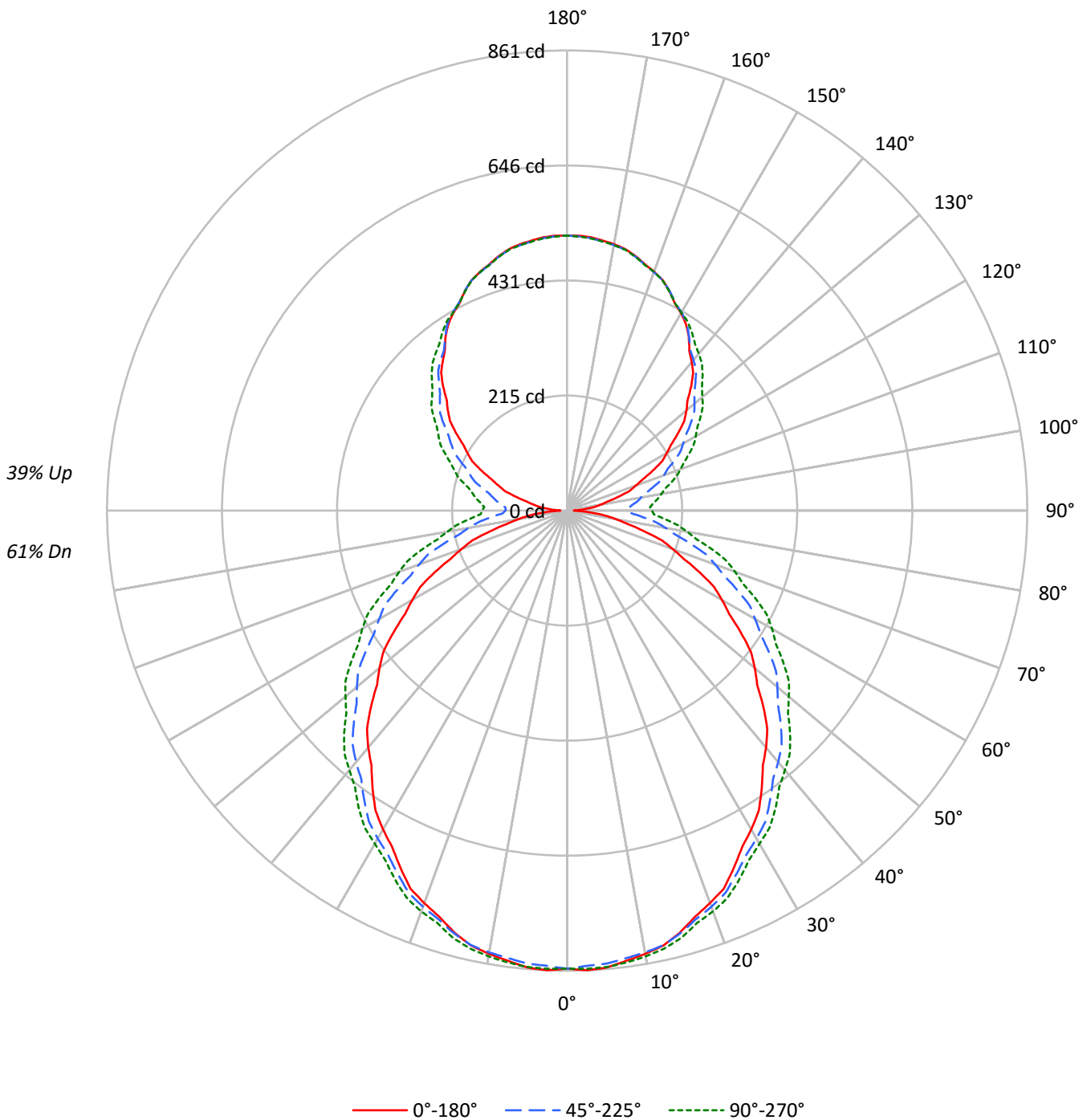
Input Watts (W): 37.7
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P332153-940

CATALOG NUMBER: S123DIW-S775D460U940-4F0-1E-UDD-D1

Luminous Intensity Polar Plot





TEST NUMBER: P332153-940

CATALOG NUMBER: S123DIW-S775D460U940-4F0-1E-UDD-D1

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 | 110 | 110 | 110 | 110 | 103 | 103 | 103 | 103 | 90 | 90 | 90 | 78 | 78 | 78 | 67 | 67 | 67 | 61 |
| 1 | 99 | 94 | 90 | 86 | 92 | 88 | 84 | 81 | 77 | 74 | 71 | 66 | 64 | 62 | 57 | 55 | 54 | 49 |
| 2 | 90 | 81 | 75 | 69 | 83 | 76 | 70 | 65 | 66 | 62 | 58 | 58 | 54 | 51 | 49 | 47 | 44 | 40 |
| 3 | 82 | 71 | 63 | 57 | 76 | 67 | 60 | 54 | 58 | 53 | 48 | 50 | 46 | 42 | 43 | 40 | 37 | 33 |
| 4 | 74 | 63 | 54 | 48 | 69 | 59 | 51 | 45 | 52 | 45 | 41 | 45 | 40 | 36 | 38 | 35 | 32 | 28 |
| 5 | 68 | 56 | 47 | 41 | 63 | 52 | 45 | 39 | 46 | 40 | 35 | 40 | 35 | 31 | 34 | 31 | 27 | 24 |
| 6 | 63 | 50 | 41 | 35 | 58 | 47 | 39 | 34 | 41 | 35 | 30 | 36 | 31 | 27 | 31 | 27 | 24 | 21 |
| 7 | 58 | 45 | 37 | 31 | 54 | 43 | 35 | 29 | 38 | 31 | 27 | 33 | 28 | 24 | 28 | 24 | 21 | 19 |
| 8 | 54 | 41 | 33 | 27 | 50 | 39 | 31 | 26 | 34 | 28 | 24 | 30 | 25 | 21 | 26 | 22 | 19 | 17 |
| 9 | 50 | 37 | 30 | 24 | 47 | 35 | 28 | 23 | 31 | 25 | 21 | 28 | 23 | 19 | 24 | 20 | 17 | 15 |
| 10 | 47 | 34 | 27 | 22 | 44 | 32 | 26 | 21 | 29 | 23 | 19 | 26 | 21 | 17 | 22 | 18 | 15 | 14 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 9226 | 9226 | 9226 |
| 5° | 9255 | 8994 | 8999 |
| 10° | 9172 | 8787 | 8743 |
| 15° | 9054 | 8552 | 8462 |
| 20° | 8884 | 8283 | 8155 |
| 25° | 8676 | 7974 | 7832 |
| 30° | 8462 | 7695 | 7504 |
| 35° | 8223 | 7401 | 7242 |
| 40° | 7995 | 7134 | 6961 |
| 45° | 7742 | 6877 | 6737 |
| 50° | 7490 | 6622 | 6490 |
| 55° | 7215 | 6363 | 6268 |
| 60° | 6946 | 6099 | 6041 |
| 65° | 6670 | 5818 | 5769 |
| 70° | 6254 | 5502 | 5492 |
| 75° | 5730 | 5140 | 5210 |
| 80° | 5128 | 4782 | 4885 |
| 85° | 4559 | 4540 | 4699 |



TEST NUMBER: P332153-940

CATALOG NUMBER: S123DIW-S775D460U940-4F0-1E-UDD-D1

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 81.3 | 1.9 |
| 10°-20° | 231.6 | 5.4 |
| 20°-30° | 346.4 | 8.0 |
| 30°-40° | 413.7 | 9.6 |
| 40°-50° | 432.9 | 10.0 |
| 50°-60° | 406.2 | 9.4 |
| 60°-70° | 339.3 | 7.9 |
| 70°-80° | 242.7 | 5.6 |
| 80°-90° | 146.3 | 3.4 |
| 90°-100° | 124.3 | 2.9 |
| 100°-110° | 167.1 | 3.9 |
| 110°-120° | 215.2 | 5.0 |
| 120°-130° | 249.9 | 5.8 |
| 130°-140° | 263.6 | 6.1 |
| 140°-150° | 250.4 | 5.8 |
| 150°-160° | 208.7 | 4.8 |
| 160°-170° | 138.9 | 3.2 |
| 170°-180° | 48.7 | 1.1 |
| 0°-30° | 659.3 | 15.3 |
| 0°-40° | 1073.0 | 24.9 |
| 0°-60° | 1912.1 | 44.4 |
| 0°-90° | 2640.3 | 61.3 |
| 90°-120° | 506.6 | 11.8 |
| 90°-150° | 1270.4 | 29.5 |
| 90°-180° | 1667.0 | 38.7 |
| 0°-180° | 4307.1 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|-----|-------|-----|-------|-----|------|
| 0° | 857 | 857 | 857 | 857 | 857 | |
| 5° | 858 | 856 | 851 | 858 | 857 | 81 |
| 15° | 817 | 820 | 819 | 828 | 827 | 230 |
| 25° | 738 | 747 | 750 | 761 | 762 | 340 |
| 35° | 635 | 650 | 662 | 675 | 680 | 397 |
| 45° | 519 | 542 | 565 | 582 | 590 | 400 |
| 55° | 396 | 427 | 460 | 484 | 493 | 354 |
| 65° | 274 | 310 | 351 | 378 | 388 | 270 |
| 75° | 148 | 192 | 239 | 269 | 281 | 159 |
| 85° | 46 | 93 | 142 | 172 | 183 | 48 |
| 90° | 13 | 62 | 115 | 147 | 159 | 10 |
| 95° | 34 | 74 | 122 | 152 | 162 | 35 |
| 105° | 98 | 123 | 165 | 191 | 201 | 105 |
| 115° | 176 | 190 | 222 | 244 | 252 | 175 |
| 125° | 254 | 257 | 282 | 299 | 304 | 227 |
| 135° | 328 | 330 | 339 | 354 | 358 | 253 |
| 145° | 396 | 396 | 398 | 404 | 407 | 247 |
| 155° | 453 | 453 | 453 | 455 | 452 | 208 |
| 165° | 493 | 492 | 492 | 494 | 492 | 139 |
| 175° | 513 | 512 | 512 | 514 | 511 | 49 |
| 180° | 514 | 514 | 514 | 514 | 514 | |



TEST NUMBER: P332153-940

CATALOG NUMBER: S123DIW-S775D460U940-4F0-1E-UDD-D1

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 857.1 | 857.1 | 857.1 | 857.1 | 857.1 | 857.1 | 857.1 | 857.1 | 857.1 | 857.1 | 857.1 |
| 2.5° | 860.9 | 860.3 | 859.9 | 859.3 | 858.9 | 857.9 | 856.7 | 855.3 | 854.0 | 852.7 | 854.0 |
| 5° | 858.1 | 857.6 | 857.2 | 856.8 | 856.4 | 855.6 | 854.3 | 853.1 | 851.9 | 850.6 | 852.3 |
| 7.5° | 849.6 | 849.7 | 849.8 | 849.9 | 850.0 | 849.4 | 848.2 | 847.0 | 845.8 | 844.6 | 846.7 |
| 10° | 842.2 | 842.6 | 843.0 | 843.5 | 843.8 | 843.6 | 842.5 | 841.5 | 840.4 | 839.4 | 841.5 |
| 12.5° | 833.2 | 833.8 | 834.4 | 835.0 | 835.5 | 835.5 | 834.8 | 834.1 | 833.4 | 832.7 | 834.6 |
| 15° | 817.0 | 817.6 | 818.2 | 818.9 | 819.5 | 819.7 | 819.5 | 819.3 | 819.0 | 818.9 | 820.9 |
| 17.5° | 796.5 | 797.7 | 799.0 | 800.1 | 801.4 | 802.0 | 801.9 | 801.8 | 801.7 | 801.6 | 803.5 |
| 20° | 781.5 | 782.7 | 784.0 | 785.2 | 786.5 | 787.3 | 787.7 | 788.2 | 788.5 | 789.0 | 790.9 |
| 22.5° | 765.8 | 767.0 | 768.3 | 769.5 | 770.8 | 771.7 | 772.3 | 772.8 | 773.5 | 774.0 | 776.4 |
| 25° | 737.6 | 739.7 | 741.7 | 743.9 | 745.9 | 747.3 | 747.9 | 748.5 | 749.1 | 749.8 | 752.4 |
| 27.5° | 709.3 | 711.6 | 714.0 | 716.3 | 718.7 | 720.5 | 721.8 | 723.2 | 724.5 | 725.9 | 728.2 |
| 30° | 689.0 | 691.8 | 694.5 | 697.1 | 699.8 | 702.0 | 703.6 | 705.3 | 707.0 | 708.6 | 711.1 |
| 32.5° | 666.6 | 669.7 | 672.7 | 675.7 | 678.8 | 681.4 | 683.5 | 685.7 | 687.9 | 690.0 | 692.7 |
| 35° | 634.9 | 638.2 | 641.6 | 644.9 | 648.2 | 651.2 | 653.9 | 656.6 | 659.3 | 662.0 | 665.1 |
| 37.5° | 601.3 | 605.0 | 608.8 | 612.5 | 616.3 | 619.7 | 623.1 | 626.4 | 629.7 | 633.0 | 636.6 |
| 40° | 578.9 | 582.6 | 586.4 | 590.1 | 593.8 | 597.8 | 601.9 | 606.1 | 610.2 | 614.4 | 617.9 |
| 42.5° | 554.2 | 558.8 | 563.4 | 567.9 | 572.5 | 576.9 | 581.2 | 585.6 | 589.9 | 594.2 | 598.1 |
| 45° | 519.2 | 524.1 | 529.1 | 534.0 | 539.0 | 544.1 | 549.3 | 554.5 | 559.7 | 564.9 | 568.8 |
| 47.5° | 482.3 | 488.0 | 493.7 | 499.3 | 504.9 | 510.7 | 516.7 | 522.5 | 528.5 | 534.4 | 538.9 |
| 50° | 458.4 | 464.2 | 470.0 | 475.9 | 481.7 | 487.8 | 494.3 | 500.7 | 507.1 | 513.5 | 518.3 |
| 52.5° | 433.0 | 439.2 | 445.3 | 451.5 | 457.6 | 464.2 | 471.4 | 478.4 | 485.5 | 492.6 | 497.6 |
| 55° | 395.9 | 402.7 | 409.6 | 416.4 | 423.3 | 430.4 | 437.9 | 445.4 | 452.8 | 460.3 | 465.9 |
| 57.5° | 359.6 | 366.8 | 373.9 | 381.0 | 388.3 | 395.8 | 404.0 | 412.2 | 420.4 | 428.6 | 434.2 |
| 60° | 334.3 | 341.7 | 349.2 | 356.7 | 364.2 | 372.1 | 380.7 | 389.1 | 397.6 | 406.2 | 412.0 |
| 62.5° | 310.3 | 318.0 | 325.7 | 333.2 | 340.9 | 349.2 | 358.2 | 367.2 | 376.2 | 385.2 | 391.0 |
| 65° | 273.6 | 281.7 | 289.7 | 297.8 | 305.9 | 314.5 | 323.7 | 332.8 | 342.0 | 351.1 | 357.3 |
| 67.5° | 236.2 | 244.8 | 253.4 | 262.0 | 270.5 | 279.6 | 288.8 | 298.1 | 307.4 | 316.7 | 323.5 |
| 70° | 210.1 | 219.0 | 227.9 | 236.8 | 245.8 | 255.2 | 265.2 | 275.1 | 285.1 | 295.1 | 301.7 |
| 72.5° | 186.2 | 195.1 | 204.0 | 212.9 | 221.9 | 231.5 | 241.7 | 252.1 | 262.3 | 272.6 | 279.5 |
| 75° | 148.5 | 158.2 | 168.0 | 177.7 | 187.4 | 197.5 | 207.9 | 218.3 | 228.6 | 239.1 | 245.8 |
| 77.5° | 115.6 | 125.5 | 135.3 | 145.1 | 154.9 | 165.1 | 175.6 | 186.0 | 196.4 | 206.9 | 214.1 |
| 80° | 92.5 | 102.6 | 112.8 | 123.0 | 133.1 | 143.6 | 154.4 | 165.1 | 175.9 | 186.7 | 193.8 |
| 82.5° | 72.2 | 82.6 | 92.9 | 103.3 | 113.6 | 124.2 | 135.2 | 146.2 | 157.1 | 168.1 | 175.1 |
| 85° | 45.7 | 56.1 | 66.5 | 76.9 | 87.2 | 97.9 | 109.0 | 119.9 | 130.9 | 142.0 | 149.0 |
| 87.5° | 24.9 | 35.4 | 45.9 | 56.4 | 67.0 | 77.7 | 88.5 | 99.2 | 110.0 | 120.9 | 128.0 |
| 90° | 12.6 | 23.6 | 34.7 | 45.7 | 56.8 | 68.2 | 80.0 | 91.7 | 103.4 | 115.2 | 122.6 |
| 92.5° | 21.1 | 30.9 | 40.8 | 50.5 | 60.3 | 70.7 | 81.8 | 92.9 | 104.0 | 115.0 | 122.3 |
| 95° | 34.2 | 42.8 | 51.5 | 60.3 | 69.0 | 78.8 | 89.7 | 100.6 | 111.5 | 122.3 | 129.1 |
| 97.5° | 51.5 | 59.3 | 67.1 | 74.8 | 82.6 | 91.6 | 101.8 | 112.1 | 122.3 | 132.5 | 139.1 |
| 100° | 63.4 | 70.5 | 77.8 | 84.9 | 92.1 | 100.7 | 110.7 | 120.6 | 130.6 | 140.6 | 147.0 |
| 102.5° | 77.1 | 83.5 | 89.8 | 96.0 | 102.4 | 110.5 | 120.5 | 130.5 | 140.4 | 150.3 | 156.5 |
| 105° | 98.4 | 103.5 | 108.7 | 113.9 | 119.0 | 126.4 | 136.2 | 146.0 | 155.7 | 165.4 | 171.2 |
| 107.5° | 122.2 | 126.5 | 130.8 | 135.2 | 139.6 | 146.1 | 154.9 | 163.6 | 172.5 | 181.3 | 187.1 |
| 110° | 137.0 | 140.9 | 144.7 | 148.6 | 152.6 | 158.8 | 167.3 | 175.8 | 184.2 | 192.7 | 198.5 |



TEST NUMBER: P332153-940

CATALOG NUMBER: S123DIW-S775D460U940-4F0-1E-UDD-D1

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 153.1 | 156.3 | 159.4 | 162.6 | 165.8 | 171.4 | 179.4 | 187.4 | 195.4 | 203.4 | 209.1 |
| 115° | 176.4 | 179.1 | 181.9 | 184.7 | 187.4 | 192.4 | 199.7 | 207.1 | 214.4 | 221.6 | 226.7 |
| 117.5° | 200.6 | 202.3 | 204.0 | 205.8 | 207.5 | 211.8 | 218.6 | 225.3 | 232.1 | 238.9 | 243.8 |
| 120° | 215.1 | 216.7 | 218.2 | 219.8 | 221.4 | 225.3 | 231.8 | 238.2 | 244.6 | 250.9 | 255.7 |
| 122.5° | 231.0 | 231.8 | 232.8 | 233.7 | 234.7 | 238.3 | 244.5 | 250.8 | 257.1 | 263.4 | 267.8 |
| 125° | 254.1 | 254.4 | 254.7 | 254.9 | 255.2 | 258.2 | 264.1 | 269.9 | 275.8 | 281.6 | 285.6 |
| 127.5° | 276.4 | 276.8 | 277.2 | 277.6 | 277.9 | 280.5 | 285.3 | 290.1 | 294.9 | 299.6 | 303.3 |
| 130° | 291.3 | 291.9 | 292.4 | 292.8 | 293.4 | 295.6 | 299.4 | 303.4 | 307.2 | 311.1 | 314.7 |
| 132.5° | 305.4 | 306.1 | 306.8 | 307.5 | 308.2 | 310.0 | 313.2 | 316.3 | 319.4 | 322.5 | 325.9 |
| 135° | 328.0 | 328.3 | 328.6 | 329.0 | 329.3 | 330.6 | 332.8 | 334.9 | 337.2 | 339.3 | 342.7 |
| 137.5° | 348.8 | 349.1 | 349.4 | 349.6 | 349.9 | 350.8 | 352.3 | 353.9 | 355.4 | 357.0 | 359.8 |
| 140° | 362.6 | 363.0 | 363.5 | 363.9 | 364.4 | 365.0 | 365.7 | 366.4 | 367.1 | 367.8 | 370.9 |
| 142.5° | 375.9 | 376.1 | 376.4 | 376.7 | 377.0 | 377.3 | 377.6 | 377.8 | 378.2 | 378.4 | 381.1 |
| 145° | 396.5 | 396.5 | 396.5 | 396.5 | 396.5 | 396.5 | 396.8 | 397.1 | 397.3 | 397.6 | 399.2 |
| 147.5° | 413.8 | 414.0 | 414.4 | 414.6 | 415.0 | 415.3 | 415.5 | 415.8 | 416.1 | 416.3 | 416.8 |
| 150° | 426.3 | 426.5 | 426.7 | 426.9 | 427.0 | 427.2 | 427.4 | 427.6 | 427.8 | 427.9 | 427.9 |
| 152.5° | 436.7 | 436.9 | 437.2 | 437.4 | 437.7 | 437.8 | 437.9 | 438.1 | 438.2 | 438.3 | 438.5 |
| 155° | 453.0 | 453.0 | 453.0 | 453.0 | 453.0 | 453.1 | 453.2 | 453.3 | 453.3 | 453.4 | 453.8 |
| 157.5° | 466.9 | 466.8 | 466.7 | 466.5 | 466.5 | 466.5 | 466.5 | 466.6 | 466.6 | 466.7 | 467.1 |
| 160° | 475.6 | 475.5 | 475.3 | 475.1 | 474.9 | 474.8 | 474.8 | 474.8 | 474.8 | 474.8 | 475.3 |
| 162.5° | 483.4 | 483.1 | 482.9 | 482.6 | 482.4 | 482.3 | 482.3 | 482.4 | 482.5 | 482.6 | 483.0 |
| 165° | 493.4 | 493.1 | 492.8 | 492.6 | 492.3 | 492.2 | 492.2 | 492.2 | 492.2 | 492.2 | 492.8 |
| 167.5° | 501.4 | 501.1 | 500.7 | 500.3 | 500.0 | 499.8 | 499.9 | 500.0 | 500.1 | 500.1 | 500.7 |
| 170° | 506.0 | 505.6 | 505.2 | 504.9 | 504.5 | 504.4 | 504.4 | 504.4 | 504.4 | 504.4 | 505.0 |
| 172.5° | 509.5 | 509.2 | 508.8 | 508.5 | 508.0 | 507.8 | 507.8 | 507.8 | 507.8 | 507.8 | 508.5 |
| 175° | 513.2 | 512.8 | 512.5 | 512.1 | 511.8 | 511.6 | 511.6 | 511.6 | 511.6 | 511.6 | 512.1 |
| 177.5° | 514.8 | 514.4 | 514.2 | 513.9 | 513.6 | 513.4 | 513.4 | 513.4 | 513.4 | 513.4 | 513.9 |
| 180° | 514.4 | 514.4 | 514.4 | 514.4 | 514.4 | 514.4 | 514.4 | 514.4 | 514.4 | 514.4 | 514.4 |



TEST NUMBER: P332153-940

CATALOG NUMBER: S123DIW-S775D460U940-4F0-1E-UDD-D1

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 857.1 | 857.1 | 857.1 | 857.1 | 857.1 | 857.1 | 857.1 | 857.1 |
| 2.5° | 855.3 | 856.7 | 857.9 | 858.5 | 858.4 | 858.2 | 858.0 | 857.9 |
| 5° | 853.9 | 855.6 | 857.2 | 857.9 | 857.7 | 857.6 | 857.4 | 857.1 |
| 7.5° | 848.7 | 850.9 | 852.9 | 853.8 | 853.5 | 853.4 | 853.1 | 852.8 |
| 10° | 843.6 | 845.6 | 847.7 | 848.6 | 848.1 | 847.7 | 847.3 | 846.9 |
| 12.5° | 836.5 | 838.4 | 840.3 | 841.1 | 840.6 | 840.3 | 839.8 | 839.4 |
| 15° | 823.0 | 825.1 | 827.2 | 828.0 | 827.9 | 827.7 | 827.4 | 827.2 |
| 17.5° | 805.4 | 807.3 | 809.1 | 809.9 | 809.7 | 809.3 | 809.0 | 808.8 |
| 20° | 792.7 | 794.6 | 796.5 | 797.5 | 797.7 | 797.9 | 798.1 | 798.3 |
| 22.5° | 778.7 | 781.1 | 783.5 | 784.6 | 784.5 | 784.3 | 784.3 | 784.1 |
| 25° | 755.2 | 757.9 | 760.5 | 761.9 | 761.9 | 761.9 | 761.9 | 761.9 |
| 27.5° | 730.5 | 732.8 | 735.1 | 736.4 | 736.6 | 736.7 | 736.9 | 737.1 |
| 30° | 713.6 | 716.1 | 718.6 | 719.9 | 719.9 | 719.9 | 719.9 | 719.9 |
| 32.5° | 695.3 | 697.9 | 700.6 | 702.2 | 702.7 | 703.2 | 703.6 | 704.2 |
| 35° | 668.2 | 671.4 | 674.4 | 676.5 | 677.3 | 678.1 | 678.9 | 679.8 |
| 37.5° | 640.1 | 643.6 | 647.1 | 649.3 | 649.9 | 650.6 | 651.2 | 651.9 |
| 40° | 621.4 | 624.9 | 628.5 | 630.6 | 631.5 | 632.3 | 633.1 | 634.0 |
| 42.5° | 601.9 | 605.7 | 609.7 | 612.2 | 613.3 | 614.5 | 615.6 | 616.8 |
| 45° | 572.7 | 576.7 | 580.7 | 583.4 | 585.1 | 586.7 | 588.4 | 590.1 |
| 47.5° | 543.3 | 547.8 | 552.2 | 555.1 | 556.3 | 557.7 | 558.9 | 560.2 |
| 50° | 523.1 | 527.8 | 532.6 | 535.7 | 537.2 | 538.6 | 540.1 | 541.5 |
| 52.5° | 502.5 | 507.5 | 512.4 | 515.8 | 517.5 | 519.3 | 521.1 | 522.9 |
| 55° | 471.5 | 477.2 | 482.7 | 486.3 | 488.0 | 489.6 | 491.3 | 493.0 |
| 57.5° | 439.9 | 445.5 | 451.1 | 455.0 | 456.9 | 458.9 | 460.7 | 462.7 |
| 60° | 417.8 | 423.6 | 429.4 | 433.5 | 435.7 | 438.0 | 440.3 | 442.6 |
| 62.5° | 396.9 | 402.7 | 408.5 | 412.4 | 414.6 | 416.7 | 418.8 | 420.9 |
| 65° | 363.6 | 369.7 | 375.9 | 380.1 | 382.2 | 384.2 | 386.4 | 388.4 |
| 67.5° | 330.3 | 337.2 | 343.9 | 348.2 | 349.9 | 351.7 | 353.5 | 355.2 |
| 70° | 308.4 | 315.0 | 321.6 | 325.9 | 328.1 | 330.1 | 332.2 | 334.3 |
| 72.5° | 286.2 | 293.0 | 299.9 | 304.3 | 306.4 | 308.4 | 310.5 | 312.6 |
| 75° | 252.7 | 259.6 | 266.4 | 271.1 | 273.6 | 276.1 | 278.6 | 281.1 |
| 77.5° | 221.3 | 228.5 | 235.8 | 240.3 | 242.3 | 244.2 | 246.1 | 248.0 |
| 80° | 200.8 | 207.9 | 215.0 | 219.5 | 221.6 | 223.6 | 225.8 | 227.8 |
| 82.5° | 182.2 | 189.2 | 196.3 | 200.8 | 203.0 | 205.0 | 207.1 | 209.1 |
| 85° | 156.0 | 163.1 | 170.1 | 174.7 | 176.7 | 178.9 | 180.9 | 183.0 |
| 87.5° | 135.2 | 142.2 | 149.4 | 154.0 | 156.1 | 158.3 | 160.3 | 162.5 |
| 90° | 130.0 | 137.4 | 144.9 | 149.7 | 151.9 | 154.2 | 156.5 | 158.7 |
| 92.5° | 129.4 | 136.6 | 143.7 | 148.2 | 150.1 | 151.9 | 153.6 | 155.4 |
| 95° | 135.9 | 142.7 | 149.5 | 153.9 | 156.0 | 158.1 | 160.2 | 162.2 |
| 97.5° | 145.7 | 152.3 | 158.9 | 163.2 | 165.2 | 167.3 | 169.3 | 171.4 |
| 100° | 153.2 | 159.5 | 165.8 | 170.0 | 172.3 | 174.6 | 176.8 | 179.1 |
| 102.5° | 162.6 | 168.7 | 174.9 | 179.0 | 181.0 | 183.0 | 185.0 | 187.1 |
| 105° | 177.0 | 182.8 | 188.6 | 192.5 | 194.6 | 196.6 | 198.7 | 200.7 |
| 107.5° | 193.0 | 198.8 | 204.6 | 208.4 | 210.2 | 211.9 | 213.6 | 215.3 |
| 110° | 204.2 | 210.0 | 215.7 | 219.4 | 220.8 | 222.3 | 223.8 | 225.2 |



TEST NUMBER: P332153-940

CATALOG NUMBER: S123DIW-S775D460U940-4F0-1E-UDD-D1

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 214.7 | 220.4 | 226.0 | 229.8 | 231.6 | 233.4 | 235.1 | 236.9 |
| 115° | 231.8 | 236.8 | 241.9 | 245.2 | 246.8 | 248.3 | 249.9 | 251.6 |
| 117.5° | 248.7 | 253.6 | 258.5 | 261.7 | 263.1 | 264.4 | 265.8 | 267.2 |
| 120° | 260.3 | 265.0 | 269.7 | 272.7 | 273.9 | 275.2 | 276.5 | 277.8 |
| 122.5° | 272.2 | 276.5 | 280.9 | 283.7 | 284.9 | 286.1 | 287.3 | 288.5 |
| 125° | 289.6 | 293.6 | 297.7 | 300.1 | 301.2 | 302.4 | 303.4 | 304.5 |
| 127.5° | 306.8 | 310.4 | 314.1 | 316.4 | 317.4 | 318.3 | 319.3 | 320.3 |
| 130° | 318.3 | 321.8 | 325.4 | 327.5 | 328.1 | 328.8 | 329.4 | 330.0 |
| 132.5° | 329.2 | 332.6 | 335.9 | 338.0 | 339.0 | 339.9 | 340.8 | 341.8 |
| 135° | 346.1 | 349.5 | 352.8 | 355.0 | 355.8 | 356.7 | 357.5 | 358.4 |
| 137.5° | 362.7 | 365.6 | 368.5 | 370.3 | 371.0 | 371.8 | 372.4 | 373.1 |
| 140° | 373.9 | 376.9 | 380.0 | 381.7 | 382.0 | 382.5 | 382.9 | 383.3 |
| 142.5° | 383.8 | 386.5 | 389.1 | 390.8 | 391.4 | 391.9 | 392.4 | 393.0 |
| 145° | 400.7 | 402.3 | 403.9 | 404.9 | 405.4 | 405.9 | 406.4 | 406.8 |
| 147.5° | 417.3 | 417.8 | 418.3 | 418.7 | 418.8 | 419.1 | 419.3 | 419.5 |
| 150° | 427.9 | 427.9 | 427.9 | 427.8 | 427.8 | 427.7 | 427.5 | 427.4 |
| 152.5° | 438.5 | 438.7 | 438.9 | 438.7 | 438.4 | 438.0 | 437.6 | 437.2 |
| 155° | 454.1 | 454.5 | 454.9 | 454.7 | 454.1 | 453.4 | 452.8 | 452.2 |
| 157.5° | 467.5 | 467.9 | 468.2 | 468.1 | 467.7 | 467.2 | 466.6 | 466.2 |
| 160° | 475.7 | 476.2 | 476.6 | 476.6 | 476.3 | 475.9 | 475.5 | 475.2 |
| 162.5° | 483.5 | 483.9 | 484.4 | 484.3 | 483.8 | 483.1 | 482.6 | 482.0 |
| 165° | 493.3 | 493.8 | 494.4 | 494.3 | 493.7 | 493.0 | 492.4 | 491.8 |
| 167.5° | 501.2 | 501.8 | 502.3 | 502.3 | 501.8 | 501.2 | 500.7 | 500.1 |
| 170° | 505.6 | 506.2 | 506.8 | 506.8 | 506.2 | 505.6 | 505.0 | 504.4 |
| 172.5° | 509.0 | 509.5 | 510.1 | 510.1 | 509.4 | 508.8 | 508.2 | 507.6 |
| 175° | 512.6 | 513.2 | 513.7 | 513.7 | 513.1 | 512.5 | 511.8 | 511.2 |
| 177.5° | 514.3 | 514.8 | 515.1 | 515.1 | 514.6 | 514.2 | 513.6 | 513.1 |
| 180° | 514.4 | 514.4 | 514.4 | 514.4 | 514.4 | 514.4 | 514.4 | 514.4 |

(END OF REPORT)