

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: P332152-830

Luminaire Tested: **S123DIW-S775D460U830-4F0-1E-UDD-D**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332152-830
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-5,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S123DIW-S775D460U830-4F0-1E-UDD-D
Description: DEFINE 3 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 775 LUMENS PER FOOT, DROP SATIN WHITE DIFFUSER
UPLIGHT 460 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4784.3 lumens
Efficiency: N/A
Efficacy: 126.9 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: General Diffuse

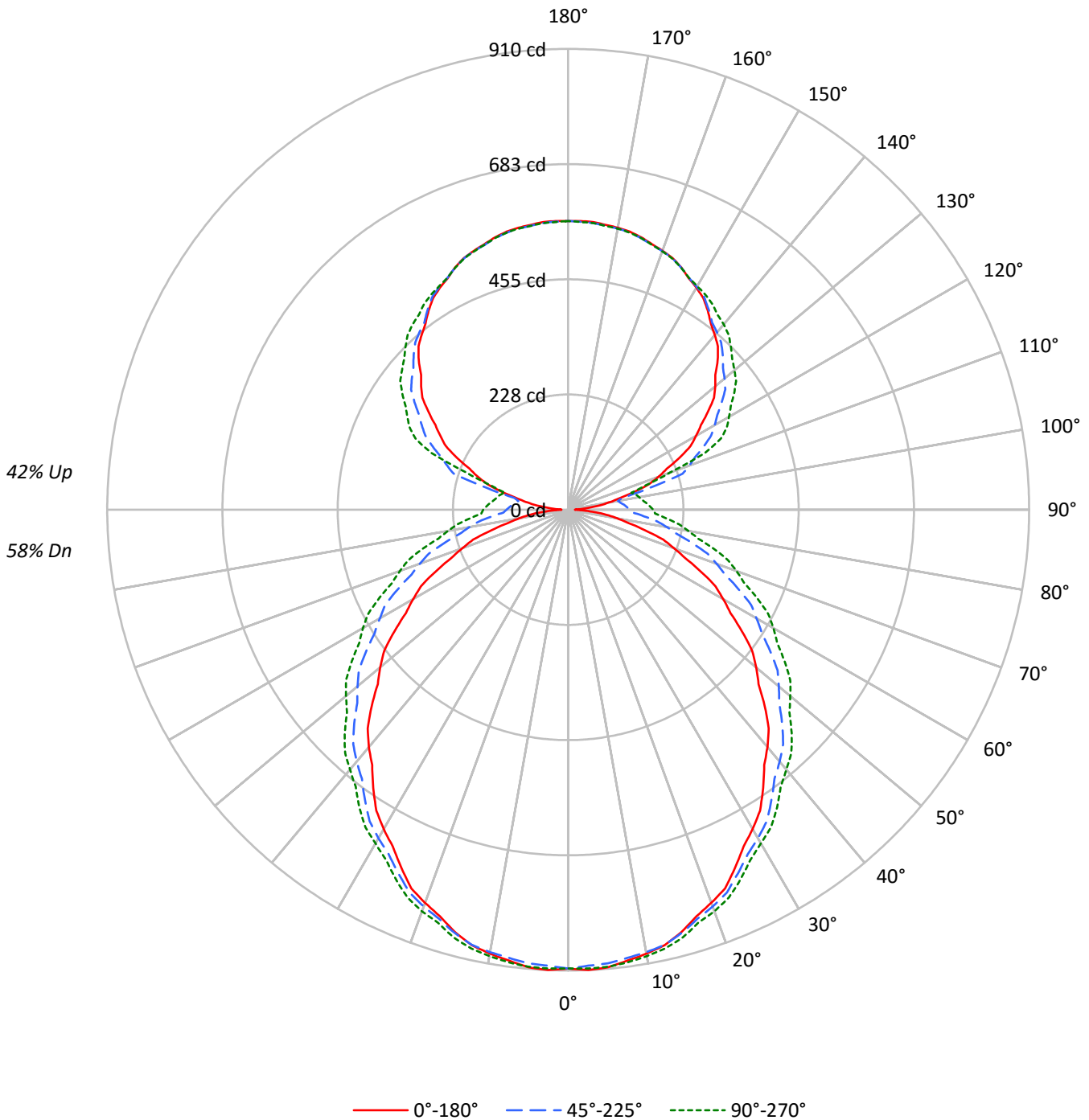
Input Watts (W): 37.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P332152-830

CATALOG NUMBER: S123DIW-S775D460U830-4F0-1E-UDD-D

Luminous Intensity Polar Plot





TEST NUMBER: P332152-830

CATALOG NUMBER: S123DIW-S775D460U830-4F0-1E-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 | 109 | 109 | 109 | 109 | 102 | 102 | 102 | 102 | 88 | 88 | 88 | 75 | 75 | 75 | 64 | 64 | 64 | 58 |
| 1 | 98 | 93 | 89 | 85 | 91 | 87 | 83 | 80 | 75 | 72 | 70 | 64 | 62 | 60 | 54 | 53 | 51 | 47 |
| 2 | 89 | 81 | 74 | 69 | 83 | 76 | 70 | 65 | 65 | 61 | 57 | 56 | 52 | 49 | 47 | 45 | 42 | 38 |
| 3 | 81 | 71 | 63 | 57 | 75 | 66 | 59 | 53 | 57 | 52 | 47 | 49 | 45 | 41 | 41 | 38 | 36 | 32 |
| 4 | 74 | 62 | 54 | 48 | 68 | 58 | 51 | 45 | 51 | 45 | 40 | 43 | 39 | 35 | 37 | 33 | 30 | 27 |
| 5 | 68 | 56 | 47 | 41 | 63 | 52 | 44 | 38 | 45 | 39 | 34 | 39 | 34 | 30 | 33 | 29 | 26 | 23 |
| 6 | 62 | 50 | 41 | 35 | 58 | 47 | 39 | 33 | 41 | 34 | 30 | 35 | 30 | 26 | 30 | 26 | 23 | 20 |
| 7 | 58 | 45 | 37 | 31 | 54 | 42 | 35 | 29 | 37 | 31 | 26 | 32 | 27 | 23 | 27 | 23 | 20 | 18 |
| 8 | 54 | 41 | 33 | 27 | 50 | 38 | 31 | 26 | 34 | 28 | 23 | 29 | 24 | 21 | 25 | 21 | 18 | 16 |
| 9 | 50 | 37 | 29 | 24 | 46 | 35 | 28 | 23 | 31 | 25 | 21 | 27 | 22 | 19 | 23 | 19 | 16 | 14 |
| 10 | 47 | 34 | 27 | 22 | 43 | 32 | 25 | 21 | 28 | 23 | 19 | 25 | 20 | 17 | 21 | 18 | 15 | 13 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 9752 | 9752 | 9752 |
| 5° | 9782 | 9507 | 9512 |
| 10° | 9694 | 9287 | 9240 |
| 15° | 9570 | 9038 | 8945 |
| 20° | 9390 | 8755 | 8621 |
| 25° | 9171 | 8428 | 8278 |
| 30° | 8945 | 8133 | 7931 |
| 35° | 8692 | 7823 | 7655 |
| 40° | 8450 | 7540 | 7358 |
| 45° | 8182 | 7269 | 7122 |
| 50° | 7918 | 7000 | 6860 |
| 55° | 7627 | 6725 | 6625 |
| 60° | 7343 | 6446 | 6385 |
| 65° | 7051 | 6149 | 6098 |
| 70° | 6611 | 5815 | 5805 |
| 75° | 6055 | 5432 | 5506 |
| 80° | 5416 | 5056 | 5164 |
| 85° | 4828 | 4799 | 4966 |



TEST NUMBER: P332152-830

CATALOG NUMBER: S123DIW-S775D460U830-4F0-1E-UDD-D

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 85.9 | 1.8 |
| 10°-20° | 244.8 | 5.1 |
| 20°-30° | 366.2 | 7.7 |
| 30°-40° | 437.3 | 9.1 |
| 40°-50° | 457.5 | 9.6 |
| 50°-60° | 429.4 | 9.0 |
| 60°-70° | 358.6 | 7.5 |
| 70°-80° | 256.6 | 5.4 |
| 80°-90° | 154.6 | 3.2 |
| 90°-100° | 116.7 | 2.4 |
| 100°-110° | 169.3 | 3.5 |
| 110°-120° | 284.3 | 5.9 |
| 120°-130° | 329.0 | 6.9 |
| 130°-140° | 334.9 | 7.0 |
| 140°-150° | 304.4 | 6.4 |
| 150°-160° | 243.5 | 5.1 |
| 160°-170° | 157.1 | 3.3 |
| 170°-180° | 54.2 | 1.1 |
| 0°-30° | 696.9 | 14.6 |
| 0°-40° | 1134.2 | 23.7 |
| 0°-60° | 2021.1 | 42.2 |
| 0°-90° | 2790.8 | 58.3 |
| 90°-120° | 570.4 | 11.9 |
| 90°-150° | 1538.7 | 32.2 |
| 90°-180° | 1993.0 | 41.7 |
| 0°-180° | 4784.3 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|-----|-------|-----|-------|-----|------|
| 0° | 906 | 906 | 906 | 906 | 906 | |
| 5° | 907 | 905 | 899 | 906 | 906 | 86 |
| 15° | 864 | 866 | 866 | 875 | 874 | 243 |
| 25° | 780 | 789 | 792 | 805 | 805 | 359 |
| 35° | 671 | 687 | 700 | 714 | 718 | 420 |
| 45° | 549 | 572 | 597 | 615 | 624 | 423 |
| 55° | 418 | 451 | 486 | 512 | 521 | 375 |
| 65° | 289 | 328 | 371 | 400 | 411 | 286 |
| 75° | 157 | 203 | 253 | 284 | 297 | 168 |
| 85° | 48 | 98 | 150 | 182 | 193 | 51 |
| 90° | 13 | 66 | 122 | 156 | 168 | 10 |
| 95° | 37 | 60 | 111 | 143 | 154 | 40 |
| 105° | 134 | 161 | 167 | 123 | 129 | 142 |
| 115° | 242 | 257 | 295 | 322 | 333 | 239 |
| 125° | 337 | 342 | 370 | 391 | 400 | 301 |
| 135° | 417 | 420 | 432 | 450 | 454 | 321 |
| 145° | 480 | 482 | 483 | 492 | 496 | 300 |
| 155° | 528 | 527 | 528 | 529 | 527 | 243 |
| 165° | 557 | 556 | 555 | 558 | 556 | 157 |
| 175° | 570 | 568 | 568 | 571 | 568 | 54 |
| 180° | 570 | 570 | 570 | 570 | 570 | |



TEST NUMBER: P332152-830

CATALOG NUMBER: S123DIW-S775D460U830-4F0-1E-UDD-D

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 906.0 | 906.0 | 906.0 | 906.0 | 906.0 | 906.0 | 906.0 | 906.0 | 906.0 | 906.0 | 906.0 |
| 2.5° | 909.9 | 909.4 | 908.9 | 908.3 | 907.9 | 906.8 | 905.5 | 904.1 | 902.7 | 901.3 | 902.7 |
| 5° | 907.0 | 906.5 | 906.1 | 905.7 | 905.2 | 904.4 | 903.1 | 901.7 | 900.4 | 899.1 | 900.9 |
| 7.5° | 898.1 | 898.1 | 898.2 | 898.3 | 898.4 | 897.9 | 896.5 | 895.3 | 894.0 | 892.8 | 894.9 |
| 10° | 890.2 | 890.6 | 891.1 | 891.6 | 891.9 | 891.6 | 890.5 | 889.5 | 888.3 | 887.2 | 889.5 |
| 12.5° | 880.7 | 881.4 | 881.9 | 882.6 | 883.2 | 883.2 | 882.4 | 881.7 | 880.9 | 880.1 | 882.1 |
| 15° | 863.6 | 864.2 | 864.9 | 865.5 | 866.2 | 866.4 | 866.2 | 866.0 | 865.7 | 865.5 | 867.7 |
| 17.5° | 841.9 | 843.2 | 844.5 | 845.7 | 847.1 | 847.7 | 847.6 | 847.5 | 847.4 | 847.3 | 849.3 |
| 20° | 826.0 | 827.4 | 828.7 | 830.0 | 831.3 | 832.2 | 832.6 | 833.1 | 833.5 | 834.0 | 835.9 |
| 22.5° | 809.5 | 810.8 | 812.1 | 813.4 | 814.7 | 815.7 | 816.3 | 816.9 | 817.6 | 818.1 | 820.7 |
| 25° | 779.7 | 781.8 | 784.0 | 786.3 | 788.4 | 789.9 | 790.5 | 791.2 | 791.8 | 792.5 | 795.3 |
| 27.5° | 749.7 | 752.1 | 754.7 | 757.1 | 759.7 | 761.6 | 763.0 | 764.4 | 765.8 | 767.2 | 769.7 |
| 30° | 728.3 | 731.2 | 734.1 | 736.9 | 739.7 | 742.1 | 743.8 | 745.6 | 747.3 | 749.0 | 751.7 |
| 32.5° | 704.6 | 707.8 | 711.1 | 714.3 | 717.5 | 720.2 | 722.5 | 724.8 | 727.1 | 729.3 | 732.2 |
| 35° | 671.1 | 674.6 | 678.2 | 681.6 | 685.1 | 688.3 | 691.2 | 694.0 | 696.9 | 699.7 | 703.0 |
| 37.5° | 635.6 | 639.5 | 643.5 | 647.4 | 651.4 | 655.1 | 658.6 | 662.1 | 665.6 | 669.1 | 672.9 |
| 40° | 611.9 | 615.9 | 619.8 | 623.8 | 627.6 | 631.9 | 636.2 | 640.6 | 645.0 | 649.4 | 653.1 |
| 42.5° | 585.8 | 590.7 | 595.5 | 600.3 | 605.1 | 609.8 | 614.3 | 619.0 | 623.5 | 628.1 | 632.2 |
| 45° | 548.7 | 554.0 | 559.2 | 564.5 | 569.8 | 575.1 | 580.6 | 586.1 | 591.6 | 597.1 | 601.2 |
| 47.5° | 509.8 | 515.9 | 521.8 | 527.7 | 533.7 | 539.8 | 546.1 | 552.3 | 558.6 | 564.9 | 569.6 |
| 50° | 484.6 | 490.7 | 496.8 | 503.0 | 509.2 | 515.6 | 522.5 | 529.2 | 536.0 | 542.8 | 547.8 |
| 52.5° | 457.7 | 464.2 | 470.7 | 477.2 | 483.7 | 490.7 | 498.2 | 505.7 | 513.2 | 520.7 | 525.9 |
| 55° | 418.5 | 425.7 | 432.9 | 440.2 | 447.4 | 455.0 | 462.9 | 470.8 | 478.6 | 486.5 | 492.5 |
| 57.5° | 380.1 | 387.7 | 395.2 | 402.7 | 410.4 | 418.4 | 427.1 | 435.7 | 444.3 | 453.0 | 458.9 |
| 60° | 353.4 | 361.2 | 369.1 | 377.0 | 384.9 | 393.3 | 402.4 | 411.3 | 420.3 | 429.3 | 435.5 |
| 62.5° | 328.0 | 336.1 | 344.2 | 352.2 | 360.3 | 369.1 | 378.6 | 388.1 | 397.7 | 407.2 | 413.3 |
| 65° | 289.2 | 297.7 | 306.2 | 314.8 | 323.4 | 332.4 | 342.1 | 351.8 | 361.5 | 371.1 | 377.7 |
| 67.5° | 249.7 | 258.7 | 267.9 | 276.9 | 286.0 | 295.5 | 305.3 | 315.1 | 324.9 | 334.8 | 342.0 |
| 70° | 222.1 | 231.5 | 240.9 | 250.3 | 259.8 | 269.8 | 280.3 | 290.8 | 301.3 | 311.9 | 318.9 |
| 72.5° | 196.8 | 206.2 | 215.7 | 225.1 | 234.5 | 244.7 | 255.5 | 266.5 | 277.3 | 288.1 | 295.4 |
| 75° | 156.9 | 167.2 | 177.6 | 187.8 | 198.1 | 208.8 | 219.7 | 230.7 | 241.7 | 252.7 | 259.9 |
| 77.5° | 122.2 | 132.6 | 143.0 | 153.4 | 163.7 | 174.5 | 185.6 | 196.6 | 207.6 | 218.7 | 226.3 |
| 80° | 97.7 | 108.5 | 119.2 | 130.0 | 140.7 | 151.7 | 163.2 | 174.6 | 186.0 | 197.4 | 204.8 |
| 82.5° | 76.3 | 87.3 | 98.2 | 109.1 | 120.1 | 131.3 | 142.9 | 154.5 | 166.1 | 177.7 | 185.1 |
| 85° | 48.4 | 59.3 | 70.3 | 81.2 | 92.2 | 103.5 | 115.2 | 126.8 | 138.4 | 150.1 | 157.5 |
| 87.5° | 26.3 | 37.4 | 48.5 | 59.7 | 70.8 | 82.0 | 93.5 | 104.9 | 116.3 | 127.8 | 135.3 |
| 90° | 13.3 | 25.0 | 36.7 | 48.4 | 60.0 | 72.0 | 84.5 | 96.9 | 109.2 | 121.7 | 129.5 |
| 92.5° | 19.9 | 29.3 | 38.7 | 48.2 | 57.7 | 68.3 | 80.2 | 92.2 | 104.2 | 116.0 | 123.9 |
| 95° | 36.7 | 41.4 | 46.1 | 50.8 | 55.4 | 63.7 | 75.5 | 87.3 | 99.1 | 110.8 | 118.3 |
| 97.5° | 61.5 | 67.6 | 73.5 | 79.6 | 85.6 | 90.3 | 93.8 | 97.3 | 100.8 | 104.2 | 111.5 |
| 100° | 80.5 | 89.4 | 98.2 | 107.2 | 116.0 | 118.2 | 113.6 | 109.1 | 104.4 | 99.8 | 107.0 |
| 102.5° | 102.0 | 109.7 | 117.3 | 125.1 | 132.7 | 133.5 | 127.3 | 121.2 | 115.1 | 109.0 | 112.8 |
| 105° | 134.1 | 140.3 | 146.7 | 153.0 | 159.3 | 162.9 | 163.9 | 164.9 | 165.8 | 166.7 | 156.3 |
| 107.5° | 166.9 | 172.3 | 177.6 | 182.9 | 188.1 | 196.0 | 206.2 | 216.5 | 226.8 | 237.0 | 230.7 |
| 110° | 188.9 | 193.6 | 198.2 | 202.9 | 207.6 | 214.9 | 224.7 | 234.5 | 244.3 | 254.1 | 256.7 |



TEST NUMBER: P332152-830

CATALOG NUMBER: S123DIW-S775D460U830-4F0-1E-UDD-D

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 210.6 | 214.4 | 218.4 | 222.3 | 226.2 | 232.9 | 242.4 | 251.8 | 261.3 | 270.8 | 276.4 |
| 115° | 241.7 | 244.9 | 248.1 | 251.3 | 254.4 | 260.4 | 269.2 | 277.9 | 286.6 | 295.4 | 301.6 |
| 117.5° | 272.5 | 274.8 | 277.2 | 279.5 | 281.8 | 286.9 | 294.7 | 302.6 | 310.5 | 318.3 | 324.2 |
| 120° | 291.1 | 293.0 | 294.9 | 296.9 | 298.8 | 303.6 | 311.0 | 318.6 | 326.1 | 333.7 | 339.4 |
| 122.5° | 310.7 | 312.0 | 313.2 | 314.5 | 315.8 | 320.0 | 327.3 | 334.5 | 341.8 | 349.0 | 354.4 |
| 125° | 336.7 | 337.4 | 338.2 | 338.9 | 339.7 | 343.4 | 350.2 | 356.8 | 363.6 | 370.3 | 375.1 |
| 127.5° | 362.7 | 363.3 | 363.8 | 364.3 | 364.9 | 368.0 | 373.7 | 379.5 | 385.1 | 390.9 | 395.5 |
| 130° | 379.0 | 379.6 | 380.0 | 380.6 | 381.2 | 383.8 | 388.5 | 393.3 | 398.0 | 402.8 | 407.4 |
| 132.5° | 393.8 | 394.5 | 395.2 | 396.0 | 396.6 | 398.9 | 402.7 | 406.5 | 410.3 | 414.2 | 418.5 |
| 135° | 417.4 | 417.7 | 418.1 | 418.4 | 418.8 | 420.4 | 423.1 | 425.9 | 428.7 | 431.5 | 435.7 |
| 137.5° | 437.5 | 438.1 | 438.6 | 439.1 | 439.7 | 440.7 | 442.3 | 443.8 | 445.4 | 447.0 | 450.9 |
| 140° | 450.3 | 450.8 | 451.4 | 451.9 | 452.5 | 453.3 | 454.2 | 455.2 | 456.1 | 457.0 | 460.7 |
| 142.5° | 462.8 | 463.2 | 463.6 | 464.0 | 464.4 | 464.8 | 465.1 | 465.6 | 466.0 | 466.5 | 469.7 |
| 145° | 480.3 | 480.8 | 481.3 | 481.6 | 482.1 | 482.4 | 482.6 | 482.8 | 483.0 | 483.1 | 485.1 |
| 147.5° | 495.9 | 496.3 | 496.7 | 497.2 | 497.6 | 497.9 | 498.1 | 498.3 | 498.5 | 498.7 | 499.4 |
| 150° | 506.1 | 506.3 | 506.6 | 506.9 | 507.2 | 507.4 | 507.6 | 507.7 | 507.9 | 508.1 | 508.3 |
| 152.5° | 515.2 | 515.3 | 515.5 | 515.6 | 515.8 | 515.9 | 515.9 | 516.0 | 516.1 | 516.3 | 516.6 |
| 155° | 528.0 | 527.8 | 527.6 | 527.5 | 527.4 | 527.3 | 527.4 | 527.4 | 527.5 | 527.6 | 528.1 |
| 157.5° | 538.1 | 538.0 | 538.0 | 538.0 | 538.0 | 537.9 | 537.8 | 537.7 | 537.6 | 537.5 | 538.1 |
| 160° | 544.1 | 544.0 | 543.9 | 543.8 | 543.8 | 543.7 | 543.6 | 543.5 | 543.4 | 543.3 | 543.8 |
| 162.5° | 549.9 | 549.7 | 549.4 | 549.2 | 548.9 | 548.7 | 548.7 | 548.6 | 548.5 | 548.4 | 549.0 |
| 165° | 556.9 | 556.6 | 556.3 | 556.0 | 555.7 | 555.5 | 555.4 | 555.3 | 555.3 | 555.2 | 555.9 |
| 167.5° | 562.3 | 561.9 | 561.6 | 561.2 | 560.8 | 560.6 | 560.6 | 560.6 | 560.6 | 560.6 | 561.4 |
| 170° | 565.3 | 565.0 | 564.6 | 564.2 | 563.8 | 563.6 | 563.6 | 563.6 | 563.6 | 563.6 | 564.4 |
| 172.5° | 567.3 | 566.9 | 566.5 | 566.0 | 565.5 | 565.3 | 565.4 | 565.5 | 565.6 | 565.6 | 566.4 |
| 175° | 570.0 | 569.5 | 569.0 | 568.5 | 568.1 | 567.9 | 568.0 | 568.1 | 568.2 | 568.3 | 568.9 |
| 177.5° | 570.6 | 570.2 | 569.9 | 569.5 | 569.1 | 569.0 | 569.1 | 569.1 | 569.2 | 569.3 | 569.9 |
| 180° | 570.0 | 570.0 | 570.0 | 570.0 | 570.0 | 570.0 | 570.0 | 570.0 | 570.0 | 570.0 | 570.0 |



TEST NUMBER: P332152-830

CATALOG NUMBER: S123DIW-S775D460U830-4F0-1E-UDD-D

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 906.0 | 906.0 | 906.0 | 906.0 | 906.0 | 906.0 | 906.0 | 906.0 |
| 2.5° | 904.1 | 905.5 | 906.8 | 907.5 | 907.3 | 907.1 | 906.9 | 906.8 |
| 5° | 902.6 | 904.4 | 906.1 | 906.8 | 906.6 | 906.4 | 906.3 | 906.0 |
| 7.5° | 897.1 | 899.4 | 901.5 | 902.5 | 902.2 | 902.0 | 901.7 | 901.4 |
| 10° | 891.6 | 893.8 | 896.0 | 896.9 | 896.5 | 896.0 | 895.6 | 895.1 |
| 12.5° | 884.2 | 886.2 | 888.2 | 889.0 | 888.5 | 888.2 | 887.7 | 887.2 |
| 15° | 869.9 | 872.1 | 874.3 | 875.2 | 875.1 | 874.9 | 874.6 | 874.4 |
| 17.5° | 851.3 | 853.3 | 855.3 | 856.1 | 855.8 | 855.5 | 855.2 | 854.9 |
| 20° | 837.9 | 839.9 | 841.9 | 842.9 | 843.2 | 843.4 | 843.6 | 843.9 |
| 22.5° | 823.1 | 825.7 | 828.1 | 829.3 | 829.2 | 829.1 | 829.0 | 828.8 |
| 25° | 798.2 | 801.1 | 803.9 | 805.3 | 805.3 | 805.3 | 805.3 | 805.3 |
| 27.5° | 772.1 | 774.6 | 777.0 | 778.4 | 778.5 | 778.7 | 778.9 | 779.1 |
| 30° | 754.3 | 757.0 | 759.6 | 760.9 | 760.9 | 760.9 | 760.9 | 760.9 |
| 32.5° | 734.9 | 737.7 | 740.6 | 742.3 | 742.7 | 743.3 | 743.8 | 744.3 |
| 35° | 706.3 | 709.6 | 712.8 | 715.0 | 715.9 | 716.7 | 717.6 | 718.5 |
| 37.5° | 676.6 | 680.3 | 684.0 | 686.3 | 686.9 | 687.7 | 688.3 | 689.1 |
| 40° | 656.9 | 660.5 | 664.3 | 666.6 | 667.5 | 668.4 | 669.2 | 670.1 |
| 42.5° | 636.2 | 640.3 | 644.4 | 647.1 | 648.3 | 649.5 | 650.7 | 652.0 |
| 45° | 605.4 | 609.5 | 613.8 | 616.7 | 618.5 | 620.2 | 622.0 | 623.8 |
| 47.5° | 574.3 | 579.0 | 583.7 | 586.7 | 588.1 | 589.5 | 590.8 | 592.1 |
| 50° | 552.9 | 557.9 | 563.0 | 566.3 | 567.8 | 569.3 | 570.9 | 572.4 |
| 52.5° | 531.1 | 536.4 | 541.6 | 545.2 | 547.1 | 548.9 | 550.8 | 552.7 |
| 55° | 498.4 | 504.4 | 510.2 | 514.1 | 515.9 | 517.6 | 519.3 | 521.1 |
| 57.5° | 465.0 | 470.9 | 476.8 | 480.9 | 483.0 | 485.0 | 487.0 | 489.1 |
| 60° | 441.6 | 447.7 | 453.8 | 458.2 | 460.5 | 463.0 | 465.4 | 467.8 |
| 62.5° | 419.5 | 425.7 | 431.8 | 435.9 | 438.2 | 440.5 | 442.7 | 444.9 |
| 65° | 384.3 | 390.8 | 397.4 | 401.8 | 404.0 | 406.1 | 408.4 | 410.6 |
| 67.5° | 349.1 | 356.4 | 363.5 | 368.1 | 369.9 | 371.7 | 373.6 | 375.4 |
| 70° | 325.9 | 332.9 | 340.0 | 344.5 | 346.8 | 348.9 | 351.1 | 353.4 |
| 72.5° | 302.6 | 309.7 | 317.0 | 321.7 | 323.9 | 326.0 | 328.2 | 330.5 |
| 75° | 267.1 | 274.4 | 281.6 | 286.5 | 289.2 | 291.8 | 294.5 | 297.1 |
| 77.5° | 233.9 | 241.6 | 249.2 | 254.0 | 256.1 | 258.1 | 260.1 | 262.1 |
| 80° | 212.3 | 219.7 | 227.2 | 232.1 | 234.2 | 236.4 | 238.7 | 240.8 |
| 82.5° | 192.6 | 200.0 | 207.5 | 212.3 | 214.5 | 216.7 | 218.9 | 221.0 |
| 85° | 164.9 | 172.4 | 179.8 | 184.6 | 186.8 | 189.1 | 191.2 | 193.4 |
| 87.5° | 142.8 | 150.3 | 157.9 | 162.8 | 165.0 | 167.2 | 169.5 | 171.7 |
| 90° | 137.3 | 145.2 | 153.0 | 158.2 | 160.5 | 162.9 | 165.2 | 167.7 |
| 92.5° | 131.8 | 139.7 | 147.6 | 152.6 | 154.7 | 156.8 | 159.0 | 161.1 |
| 95° | 125.7 | 133.2 | 140.6 | 145.5 | 147.7 | 149.9 | 152.0 | 154.3 |
| 97.5° | 118.9 | 126.1 | 133.4 | 138.2 | 140.4 | 142.8 | 145.1 | 147.3 |
| 100° | 114.0 | 121.2 | 128.3 | 133.0 | 135.3 | 137.5 | 139.9 | 142.1 |
| 102.5° | 116.7 | 120.6 | 124.4 | 127.5 | 129.9 | 132.2 | 134.6 | 137.0 |
| 105° | 145.7 | 135.3 | 124.7 | 120.6 | 122.7 | 124.9 | 127.0 | 129.1 |
| 107.5° | 224.4 | 218.1 | 211.7 | 203.3 | 192.7 | 182.0 | 171.4 | 160.8 |
| 110° | 259.3 | 261.9 | 264.6 | 260.0 | 248.3 | 236.6 | 224.9 | 213.2 |



TEST NUMBER: P332152-830

CATALOG NUMBER: S123DIW-S775D460U830-4F0-1E-UDD-D

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 281.9 | 287.5 | 293.0 | 295.4 | 294.5 | 293.6 | 292.7 | 291.8 |
| 115° | 307.7 | 314.0 | 320.2 | 324.3 | 326.5 | 328.7 | 330.7 | 332.9 |
| 117.5° | 330.3 | 336.2 | 342.1 | 346.0 | 347.8 | 349.6 | 351.4 | 353.2 |
| 120° | 345.3 | 351.0 | 356.8 | 360.5 | 362.0 | 363.5 | 365.1 | 366.6 |
| 122.5° | 359.8 | 365.2 | 370.6 | 374.1 | 375.7 | 377.3 | 378.9 | 380.5 |
| 125° | 379.9 | 384.7 | 389.6 | 392.8 | 394.5 | 396.2 | 397.9 | 399.6 |
| 127.5° | 400.1 | 404.8 | 409.4 | 412.4 | 413.7 | 415.0 | 416.3 | 417.6 |
| 130° | 411.9 | 416.4 | 421.0 | 423.9 | 425.0 | 426.1 | 427.3 | 428.4 |
| 132.5° | 422.8 | 427.3 | 431.6 | 434.4 | 435.6 | 436.9 | 438.1 | 439.3 |
| 135° | 440.0 | 444.2 | 448.5 | 450.9 | 451.8 | 452.6 | 453.4 | 454.2 |
| 137.5° | 454.9 | 458.7 | 462.7 | 465.1 | 466.0 | 466.9 | 467.8 | 468.7 |
| 140° | 464.4 | 468.1 | 471.7 | 474.0 | 474.9 | 475.8 | 476.7 | 477.7 |
| 142.5° | 472.9 | 476.2 | 479.4 | 481.5 | 482.3 | 483.1 | 483.9 | 484.7 |
| 145° | 487.0 | 489.0 | 491.0 | 492.4 | 493.2 | 494.1 | 495.0 | 495.9 |
| 147.5° | 500.1 | 500.8 | 501.5 | 502.1 | 502.4 | 502.8 | 503.1 | 503.5 |
| 150° | 508.5 | 508.7 | 508.9 | 509.1 | 509.3 | 509.3 | 509.5 | 509.7 |
| 152.5° | 517.0 | 517.3 | 517.6 | 517.6 | 517.3 | 517.0 | 516.6 | 516.2 |
| 155° | 528.6 | 529.0 | 529.5 | 529.4 | 528.9 | 528.3 | 527.7 | 527.3 |
| 157.5° | 538.7 | 539.2 | 539.8 | 539.7 | 538.9 | 538.3 | 537.5 | 536.8 |
| 160° | 544.4 | 545.0 | 545.5 | 545.5 | 544.9 | 544.2 | 543.6 | 542.9 |
| 162.5° | 549.7 | 550.4 | 550.9 | 551.0 | 550.4 | 549.8 | 549.2 | 548.7 |
| 165° | 556.7 | 557.4 | 558.2 | 558.2 | 557.5 | 556.9 | 556.3 | 555.6 |
| 167.5° | 562.1 | 562.8 | 563.5 | 563.5 | 562.8 | 562.1 | 561.4 | 560.6 |
| 170° | 565.1 | 565.9 | 566.7 | 566.7 | 565.9 | 565.1 | 564.4 | 563.6 |
| 172.5° | 567.1 | 567.9 | 568.6 | 568.6 | 567.8 | 566.9 | 566.2 | 565.3 |
| 175° | 569.6 | 570.2 | 570.9 | 570.9 | 570.1 | 569.4 | 568.6 | 567.9 |
| 177.5° | 570.5 | 571.1 | 571.7 | 571.7 | 570.9 | 570.1 | 569.4 | 568.6 |
| 180° | 570.0 | 570.0 | 570.0 | 570.0 | 570.0 | 570.0 | 570.0 | 570.0 |

(END OF REPORT)