

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: P331558-840

Luminaire Tested: **S122DIW-S865D435U840-4F0-1E-UDD-D1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331558-840
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-8,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S122DIW-S865D435U840-4F0-1E-UDD-D1
Description: DEFINE 2 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 865 LUMENS PER FOOT, DROP SATIN WHITE DIFFUSER
UPLIGHT 435 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5045.7 lumens
Efficiency: N/A
Efficacy: 109.2 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-Direct

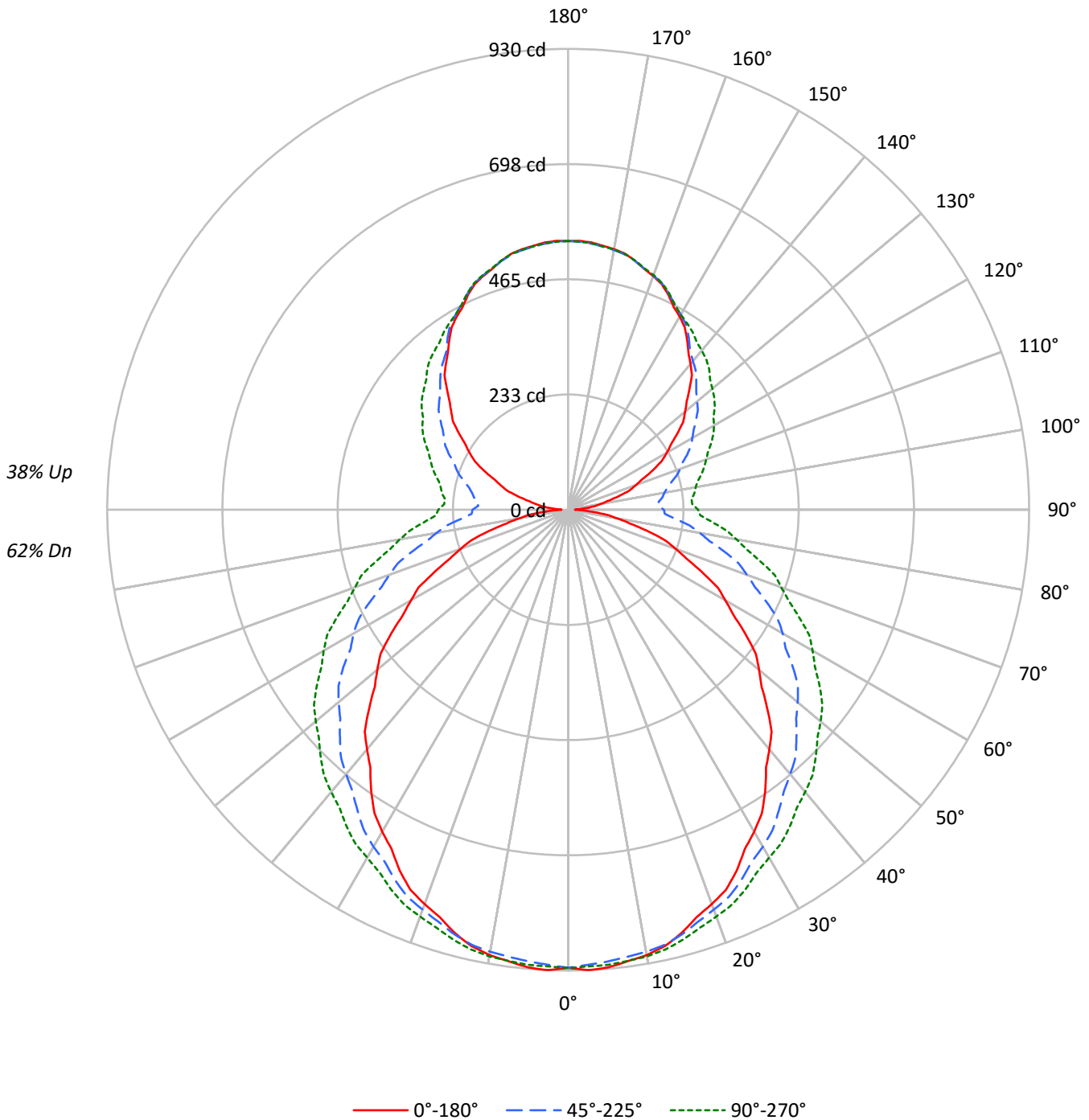
Input Watts (W): 46.2
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P331558-840

CATALOG NUMBER: S122DIW-S865D435U840-4F0-1E-UDD-D1

Luminous Intensity Polar Plot





TEST NUMBER: P331558-840

CATALOG NUMBER: S122DIW-S865D435U840-4F0-1E-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 | 62 |
| 1 | 99 | 93 | 89 | 85 | 92 | 87 | 83 | 80 | 76 | 73 | 70 | 66 | 64 | 61 | 57 | 55 | 53 | 48 |
| 2 | 89 | 81 | 73 | 68 | 83 | 75 | 69 | 64 | 66 | 61 | 57 | 57 | 53 | 50 | 49 | 46 | 43 | 39 |
| 3 | 81 | 70 | 62 | 55 | 75 | 66 | 58 | 53 | 57 | 52 | 47 | 50 | 45 | 41 | 43 | 39 | 36 | 32 |
| 4 | 74 | 62 | 53 | 46 | 68 | 58 | 50 | 44 | 51 | 44 | 39 | 44 | 39 | 35 | 38 | 34 | 31 | 27 |
| 5 | 68 | 55 | 46 | 40 | 63 | 52 | 44 | 38 | 45 | 39 | 34 | 39 | 34 | 30 | 34 | 30 | 26 | 23 |
| 6 | 62 | 49 | 40 | 34 | 58 | 46 | 38 | 32 | 41 | 34 | 29 | 35 | 30 | 26 | 30 | 26 | 23 | 20 |
| 7 | 57 | 44 | 36 | 30 | 53 | 42 | 34 | 28 | 37 | 30 | 26 | 32 | 27 | 23 | 28 | 24 | 20 | 18 |
| 8 | 53 | 40 | 32 | 26 | 50 | 38 | 30 | 25 | 33 | 27 | 23 | 29 | 24 | 20 | 25 | 21 | 18 | 16 |
| 9 | 50 | 37 | 29 | 23 | 46 | 35 | 27 | 22 | 31 | 25 | 20 | 27 | 22 | 18 | 23 | 19 | 16 | 14 |
| 10 | 46 | 34 | 26 | 21 | 43 | 32 | 25 | 20 | 28 | 22 | 18 | 25 | 20 | 16 | 22 | 18 | 15 | 13 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 14928 | 14928 | 14928 |
| 5° | 15002 | 14370 | 14315 |
| 10° | 14907 | 13945 | 13789 |
| 15° | 14701 | 13496 | 13236 |
| 20° | 14442 | 13015 | 12701 |
| 25° | 14187 | 12551 | 12216 |
| 30° | 13824 | 12074 | 11729 |
| 35° | 13459 | 11611 | 11386 |
| 40° | 13075 | 11219 | 11044 |
| 45° | 12709 | 10869 | 10750 |
| 50° | 12316 | 10551 | 10462 |
| 55° | 11908 | 10209 | 10166 |
| 60° | 11404 | 9856 | 9857 |
| 65° | 10880 | 9439 | 9485 |
| 70° | 10292 | 8992 | 9089 |
| 75° | 9539 | 8554 | 8722 |
| 80° | 8357 | 8107 | 8349 |
| 85° | 7227 | 7720 | 8061 |



TEST NUMBER: P331558-840

CATALOG NUMBER: S122DIW-S865D435U840-4F0-1E-UDD-D1

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 87.6 | 1.7 |
| 10°-20° | 251.2 | 5.0 |
| 20°-30° | 380.7 | 7.5 |
| 30°-40° | 463.7 | 9.2 |
| 40°-50° | 498.9 | 9.9 |
| 50°-60° | 484.5 | 9.6 |
| 60°-70° | 423.0 | 8.4 |
| 70°-80° | 325.7 | 6.5 |
| 80°-90° | 220.7 | 4.4 |
| 90°-100° | 184.9 | 3.7 |
| 100°-110° | 216.7 | 4.3 |
| 110°-120° | 255.0 | 5.1 |
| 120°-130° | 280.4 | 5.6 |
| 130°-140° | 286.2 | 5.7 |
| 140°-150° | 266.9 | 5.3 |
| 150°-160° | 221.4 | 4.4 |
| 160°-170° | 146.8 | 2.9 |
| 170°-180° | 51.3 | 1.0 |
| 0°-30° | 719.6 | 14.3 |
| 0°-40° | 1183.3 | 23.5 |
| 0°-60° | 2166.6 | 42.9 |
| 0°-90° | 3136.1 | 62.2 |
| 90°-120° | 656.6 | 13.0 |
| 90°-150° | 1490.1 | 29.5 |
| 90°-180° | 1910.0 | 37.9 |
| 0°-180° | 5045.7 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|-----|-------|-----|-------|-----|------|
| 0° | 925 | 925 | 925 | 925 | 925 | |
| 5° | 927 | 923 | 915 | 923 | 922 | 88 |
| 15° | 884 | 887 | 887 | 898 | 898 | 249 |
| 25° | 804 | 814 | 826 | 841 | 846 | 369 |
| 35° | 693 | 716 | 741 | 769 | 780 | 433 |
| 45° | 568 | 605 | 651 | 691 | 706 | 438 |
| 55° | 436 | 485 | 553 | 600 | 619 | 389 |
| 65° | 298 | 364 | 442 | 495 | 514 | 295 |
| 75° | 165 | 240 | 326 | 381 | 401 | 174 |
| 85° | 48 | 132 | 217 | 271 | 292 | 52 |
| 90° | 14 | 98 | 193 | 244 | 262 | 10 |
| 95° | 34 | 103 | 183 | 232 | 249 | 36 |
| 105° | 105 | 147 | 216 | 262 | 278 | 112 |
| 115° | 188 | 208 | 265 | 304 | 318 | 186 |
| 125° | 269 | 275 | 315 | 348 | 361 | 241 |
| 135° | 346 | 351 | 365 | 392 | 402 | 267 |
| 145° | 418 | 421 | 424 | 432 | 438 | 261 |
| 155° | 478 | 480 | 481 | 483 | 482 | 220 |
| 165° | 520 | 520 | 520 | 523 | 521 | 147 |
| 175° | 541 | 540 | 539 | 542 | 540 | 51 |
| 180° | 542 | 542 | 542 | 542 | 542 | |



TEST NUMBER: P331558-840

CATALOG NUMBER: S122DIW-S865D435U840-4F0-1E-UDD-D1

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 924.6 | 924.6 | 924.6 | 924.6 | 924.6 | 924.6 | 924.6 | 924.6 | 924.6 | 924.6 | 924.6 |
| 2.5° | 930.0 | 929.3 | 928.6 | 927.9 | 927.2 | 925.9 | 924.2 | 922.6 | 920.9 | 919.3 | 920.5 |
| 5° | 927.3 | 926.5 | 925.5 | 924.6 | 923.7 | 922.4 | 920.6 | 918.8 | 917.1 | 915.2 | 917.1 |
| 7.5° | 919.0 | 918.4 | 917.8 | 917.3 | 916.7 | 915.6 | 914.2 | 912.9 | 911.5 | 910.2 | 912.3 |
| 10° | 912.6 | 912.0 | 911.4 | 910.8 | 910.2 | 909.5 | 908.6 | 907.7 | 906.8 | 905.8 | 908.3 |
| 12.5° | 901.8 | 902.0 | 902.1 | 902.2 | 902.3 | 902.0 | 901.4 | 900.7 | 900.1 | 899.4 | 901.8 |
| 15° | 884.4 | 885.0 | 885.7 | 886.3 | 886.8 | 887.1 | 887.1 | 887.1 | 887.1 | 887.1 | 889.8 |
| 17.5° | 861.9 | 863.1 | 864.4 | 865.7 | 866.9 | 868.0 | 869.0 | 869.9 | 870.9 | 871.8 | 874.6 |
| 20° | 846.9 | 848.4 | 849.9 | 851.4 | 852.8 | 854.2 | 855.4 | 856.6 | 857.8 | 859.0 | 862.2 |
| 22.5° | 830.8 | 832.5 | 834.2 | 836.0 | 837.7 | 839.4 | 841.1 | 842.7 | 844.4 | 846.1 | 849.4 |
| 25° | 804.1 | 806.1 | 808.2 | 810.3 | 812.3 | 814.8 | 817.4 | 820.1 | 822.7 | 825.5 | 829.0 |
| 27.5° | 771.8 | 775.3 | 778.6 | 782.0 | 785.5 | 788.7 | 791.8 | 795.1 | 798.2 | 801.3 | 805.9 |
| 30° | 750.4 | 754.3 | 758.2 | 762.0 | 765.9 | 769.8 | 773.7 | 777.5 | 781.4 | 785.3 | 790.0 |
| 32.5° | 726.8 | 731.1 | 735.5 | 739.9 | 744.3 | 748.7 | 753.3 | 757.9 | 762.4 | 767.0 | 772.5 |
| 35° | 692.8 | 697.8 | 703.0 | 708.0 | 713.1 | 718.4 | 724.1 | 729.7 | 735.4 | 741.0 | 747.6 |
| 37.5° | 655.8 | 661.7 | 667.5 | 673.3 | 679.1 | 685.7 | 693.1 | 700.4 | 707.7 | 715.1 | 722.4 |
| 40° | 631.2 | 637.7 | 644.3 | 650.9 | 657.3 | 664.7 | 672.7 | 680.8 | 688.8 | 696.8 | 704.6 |
| 42.5° | 607.5 | 614.1 | 620.7 | 627.2 | 633.8 | 641.7 | 650.9 | 660.1 | 669.3 | 678.6 | 687.0 |
| 45° | 568.2 | 576.2 | 584.2 | 592.3 | 600.4 | 609.6 | 620.0 | 630.5 | 640.9 | 651.3 | 660.5 |
| 47.5° | 529.3 | 538.1 | 546.8 | 555.6 | 564.3 | 574.8 | 587.0 | 599.3 | 611.5 | 623.7 | 633.3 |
| 50° | 502.5 | 511.7 | 521.0 | 530.2 | 539.5 | 550.8 | 564.1 | 577.5 | 591.0 | 604.4 | 614.5 |
| 52.5° | 476.8 | 486.5 | 496.2 | 505.9 | 515.6 | 527.6 | 541.7 | 555.7 | 569.9 | 584.0 | 594.3 |
| 55° | 435.6 | 446.3 | 457.0 | 467.7 | 478.4 | 491.5 | 507.0 | 522.5 | 538.0 | 553.4 | 564.1 |
| 57.5° | 394.8 | 406.9 | 419.0 | 431.0 | 443.1 | 457.1 | 472.8 | 488.7 | 504.4 | 520.2 | 531.8 |
| 60° | 365.9 | 378.6 | 391.4 | 404.2 | 417.1 | 431.9 | 448.9 | 465.9 | 482.8 | 499.9 | 511.2 |
| 62.5° | 340.1 | 353.4 | 366.7 | 379.9 | 393.2 | 408.4 | 425.4 | 442.3 | 459.3 | 476.3 | 488.3 |
| 65° | 297.5 | 312.0 | 326.7 | 341.2 | 355.9 | 371.9 | 389.5 | 407.1 | 424.6 | 442.2 | 454.4 |
| 67.5° | 258.3 | 273.6 | 288.8 | 304.1 | 319.3 | 336.0 | 354.0 | 371.9 | 389.9 | 407.9 | 420.2 |
| 70° | 230.5 | 246.0 | 261.5 | 276.9 | 292.5 | 309.4 | 327.9 | 346.3 | 364.8 | 383.2 | 396.1 |
| 72.5° | 204.8 | 220.8 | 236.7 | 252.7 | 268.6 | 285.9 | 304.7 | 323.4 | 342.0 | 360.7 | 373.3 |
| 75° | 164.8 | 181.5 | 198.1 | 214.9 | 231.6 | 249.4 | 268.4 | 287.5 | 306.6 | 325.6 | 338.4 |
| 77.5° | 126.2 | 143.7 | 161.2 | 178.5 | 196.0 | 214.4 | 233.8 | 253.2 | 272.5 | 291.9 | 304.6 |
| 80° | 100.5 | 118.7 | 136.8 | 155.0 | 173.2 | 191.9 | 211.3 | 230.7 | 249.9 | 269.3 | 281.9 |
| 82.5° | 79.1 | 96.9 | 114.9 | 132.8 | 150.8 | 169.6 | 189.1 | 208.7 | 228.3 | 247.9 | 260.4 |
| 85° | 48.3 | 66.8 | 85.1 | 103.6 | 122.1 | 140.9 | 159.9 | 178.9 | 198.0 | 217.1 | 229.6 |
| 87.5° | 26.4 | 44.3 | 62.3 | 80.3 | 98.4 | 117.0 | 136.5 | 156.1 | 175.6 | 195.1 | 207.2 |
| 90° | 13.8 | 32.3 | 50.8 | 69.4 | 87.9 | 107.8 | 129.1 | 150.3 | 171.6 | 192.9 | 204.6 |
| 92.5° | 20.5 | 37.5 | 54.4 | 71.4 | 88.4 | 106.3 | 125.1 | 144.0 | 162.9 | 181.8 | 193.5 |
| 95° | 34.5 | 49.5 | 64.5 | 79.6 | 94.5 | 111.1 | 129.2 | 147.2 | 165.3 | 183.4 | 194.7 |
| 97.5° | 52.8 | 66.1 | 79.6 | 92.9 | 106.2 | 121.7 | 139.2 | 156.7 | 174.3 | 191.8 | 202.8 |
| 100° | 67.5 | 79.3 | 91.2 | 103.0 | 114.8 | 129.3 | 146.2 | 163.2 | 180.2 | 197.1 | 208.1 |
| 102.5° | 81.8 | 92.5 | 103.2 | 113.9 | 124.6 | 138.4 | 154.9 | 171.5 | 188.0 | 204.6 | 215.5 |
| 105° | 105.0 | 114.0 | 122.9 | 131.9 | 140.9 | 153.2 | 168.8 | 184.5 | 200.3 | 215.9 | 226.5 |
| 107.5° | 129.9 | 137.2 | 144.6 | 152.0 | 159.3 | 170.4 | 185.2 | 200.1 | 214.9 | 229.7 | 239.8 |
| 110° | 144.9 | 151.5 | 158.0 | 164.6 | 171.2 | 181.8 | 196.3 | 211.0 | 225.5 | 240.1 | 249.6 |



TEST NUMBER: P331558-840

CATALOG NUMBER: S122DIW-S865D435U840-4F0-1E-UDD-D1

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 162.5 | 168.0 | 173.7 | 179.4 | 184.9 | 194.6 | 208.4 | 222.3 | 236.0 | 249.8 | 259.1 |
| 115° | 188.3 | 192.3 | 196.1 | 200.1 | 203.9 | 212.5 | 225.6 | 238.8 | 252.1 | 265.3 | 274.1 |
| 117.5° | 212.9 | 215.8 | 218.7 | 221.7 | 224.7 | 232.1 | 243.9 | 255.7 | 267.5 | 279.3 | 287.9 |
| 120° | 230.0 | 232.1 | 234.1 | 236.0 | 238.0 | 244.6 | 255.7 | 266.8 | 277.9 | 289.0 | 297.3 |
| 122.5° | 245.8 | 247.2 | 248.7 | 250.1 | 251.6 | 257.6 | 268.2 | 278.9 | 289.5 | 300.1 | 308.0 |
| 125° | 268.9 | 269.8 | 270.7 | 271.8 | 272.7 | 277.7 | 286.9 | 296.1 | 305.4 | 314.6 | 322.3 |
| 127.5° | 292.9 | 293.7 | 294.6 | 295.4 | 296.3 | 300.3 | 307.7 | 315.0 | 322.3 | 329.6 | 336.7 |
| 130° | 307.8 | 308.9 | 309.9 | 310.9 | 311.9 | 315.5 | 321.5 | 327.6 | 333.7 | 339.7 | 346.6 |
| 132.5° | 324.7 | 325.5 | 326.3 | 327.0 | 327.8 | 330.6 | 335.5 | 340.3 | 345.3 | 350.1 | 356.6 |
| 135° | 345.9 | 347.0 | 348.1 | 349.2 | 350.3 | 352.4 | 355.7 | 358.8 | 362.0 | 365.2 | 371.3 |
| 137.5° | 369.5 | 370.4 | 371.2 | 372.1 | 372.9 | 374.2 | 375.8 | 377.4 | 378.9 | 380.5 | 385.9 |
| 140° | 383.8 | 384.5 | 385.1 | 385.7 | 386.3 | 387.2 | 388.3 | 389.4 | 390.5 | 391.6 | 396.4 |
| 142.5° | 398.5 | 399.1 | 399.7 | 400.3 | 400.9 | 401.5 | 401.9 | 402.4 | 402.8 | 403.3 | 407.3 |
| 145° | 418.2 | 418.9 | 419.6 | 420.3 | 421.0 | 421.7 | 422.3 | 422.9 | 423.5 | 424.1 | 426.1 |
| 147.5° | 437.0 | 437.8 | 438.7 | 439.5 | 440.4 | 441.0 | 441.4 | 441.8 | 442.2 | 442.6 | 443.0 |
| 150° | 449.8 | 450.4 | 451.0 | 451.6 | 452.2 | 452.7 | 453.1 | 453.5 | 453.9 | 454.3 | 454.6 |
| 152.5° | 461.1 | 461.7 | 462.3 | 462.9 | 463.5 | 464.1 | 464.5 | 465.0 | 465.5 | 466.1 | 466.5 |
| 155° | 478.1 | 478.4 | 478.7 | 479.1 | 479.4 | 479.7 | 480.0 | 480.3 | 480.6 | 480.9 | 481.4 |
| 157.5° | 492.7 | 492.9 | 493.1 | 493.3 | 493.5 | 493.6 | 493.8 | 494.0 | 494.2 | 494.4 | 495.1 |
| 160° | 501.5 | 501.7 | 501.9 | 502.1 | 502.3 | 502.4 | 502.5 | 502.6 | 502.7 | 502.8 | 503.4 |
| 162.5° | 509.5 | 509.6 | 509.6 | 509.6 | 509.7 | 509.8 | 509.9 | 510.0 | 510.1 | 510.2 | 510.8 |
| 165° | 520.2 | 520.1 | 520.0 | 519.9 | 519.8 | 519.8 | 519.8 | 519.8 | 519.8 | 519.8 | 520.5 |
| 167.5° | 529.2 | 528.9 | 528.6 | 528.3 | 528.0 | 527.8 | 527.8 | 527.8 | 527.8 | 527.8 | 528.5 |
| 170° | 533.9 | 533.6 | 533.3 | 533.0 | 532.7 | 532.5 | 532.4 | 532.3 | 532.2 | 532.1 | 532.8 |
| 172.5° | 537.2 | 536.9 | 536.6 | 536.3 | 536.0 | 535.8 | 535.7 | 535.6 | 535.5 | 535.4 | 536.1 |
| 175° | 541.3 | 541.0 | 540.7 | 540.4 | 540.1 | 539.8 | 539.6 | 539.4 | 539.2 | 539.0 | 539.7 |
| 177.5° | 542.9 | 542.7 | 542.4 | 542.2 | 541.9 | 541.7 | 541.6 | 541.4 | 541.2 | 541.1 | 541.6 |
| 180° | 542.2 | 542.2 | 542.2 | 542.2 | 542.2 | 542.2 | 542.2 | 542.2 | 542.2 | 542.2 | 542.2 |



TEST NUMBER: P331558-840

CATALOG NUMBER: S122DIW-S865D435U840-4F0-1E-UDD-D1

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 924.6 | 924.6 | 924.6 | 924.6 | 924.6 | 924.6 | 924.6 | 924.6 |
| 2.5° | 921.6 | 922.8 | 924.0 | 924.4 | 923.9 | 923.4 | 922.9 | 922.5 |
| 5° | 918.8 | 920.6 | 922.4 | 923.1 | 922.8 | 922.5 | 922.2 | 921.9 |
| 7.5° | 914.4 | 916.6 | 918.8 | 919.7 | 919.4 | 919.1 | 918.8 | 918.5 |
| 10° | 910.6 | 913.0 | 915.4 | 916.5 | 916.1 | 915.8 | 915.5 | 915.2 |
| 12.5° | 904.2 | 906.6 | 909.0 | 910.0 | 909.7 | 909.4 | 909.1 | 908.8 |
| 15° | 892.4 | 895.1 | 897.9 | 899.0 | 898.7 | 898.4 | 898.1 | 897.9 |
| 17.5° | 877.5 | 880.2 | 883.0 | 884.4 | 884.4 | 884.4 | 884.4 | 884.4 |
| 20° | 865.6 | 868.8 | 872.0 | 873.7 | 873.7 | 873.7 | 873.7 | 873.7 |
| 22.5° | 852.6 | 856.0 | 859.2 | 861.1 | 861.5 | 862.0 | 862.5 | 863.0 |
| 25° | 832.6 | 836.2 | 839.8 | 842.0 | 842.8 | 843.7 | 844.7 | 845.6 |
| 27.5° | 810.4 | 815.0 | 819.4 | 822.0 | 822.7 | 823.3 | 824.0 | 824.7 |
| 30° | 794.8 | 799.5 | 804.4 | 807.2 | 808.0 | 808.9 | 809.8 | 810.7 |
| 32.5° | 778.0 | 783.5 | 788.9 | 792.5 | 794.1 | 795.7 | 797.3 | 798.9 |
| 35° | 754.2 | 760.7 | 767.3 | 771.5 | 773.7 | 775.8 | 777.8 | 779.9 |
| 37.5° | 729.5 | 736.8 | 744.1 | 748.8 | 751.0 | 753.3 | 755.5 | 757.7 |
| 40° | 712.3 | 720.0 | 727.8 | 733.0 | 735.7 | 738.3 | 741.0 | 743.8 |
| 42.5° | 695.5 | 704.0 | 712.5 | 718.0 | 720.6 | 723.4 | 726.0 | 728.7 |
| 45° | 669.7 | 678.9 | 688.2 | 694.3 | 697.3 | 700.2 | 703.3 | 706.2 |
| 47.5° | 643.0 | 652.6 | 662.3 | 668.7 | 672.0 | 675.3 | 678.5 | 681.9 |
| 50° | 624.6 | 634.7 | 644.9 | 651.6 | 654.8 | 658.1 | 661.4 | 664.7 |
| 52.5° | 604.7 | 615.1 | 625.4 | 632.4 | 635.9 | 639.4 | 642.9 | 646.4 |
| 55° | 574.9 | 585.6 | 596.3 | 603.6 | 607.4 | 611.4 | 615.2 | 619.0 |
| 57.5° | 543.3 | 554.8 | 566.4 | 574.2 | 578.0 | 582.0 | 585.9 | 589.9 |
| 60° | 522.5 | 533.8 | 545.1 | 552.8 | 557.0 | 561.2 | 565.3 | 569.6 |
| 62.5° | 500.3 | 512.3 | 524.3 | 532.4 | 536.2 | 540.2 | 544.1 | 548.1 |
| 65° | 466.7 | 478.9 | 491.1 | 499.1 | 502.9 | 506.9 | 510.7 | 514.5 |
| 67.5° | 432.5 | 444.8 | 457.3 | 465.4 | 469.5 | 473.5 | 477.6 | 481.6 |
| 70° | 408.9 | 421.6 | 434.4 | 442.6 | 446.3 | 449.8 | 453.4 | 457.0 |
| 72.5° | 385.9 | 398.4 | 411.0 | 419.4 | 423.7 | 428.0 | 432.3 | 436.6 |
| 75° | 351.2 | 364.1 | 376.9 | 385.2 | 389.1 | 392.9 | 396.8 | 400.7 |
| 77.5° | 317.4 | 330.1 | 342.8 | 351.3 | 355.5 | 359.6 | 363.9 | 368.0 |
| 80° | 294.4 | 306.9 | 319.4 | 327.7 | 331.8 | 336.1 | 340.2 | 344.4 |
| 82.5° | 273.0 | 285.4 | 297.9 | 306.2 | 310.1 | 314.0 | 317.9 | 321.8 |
| 85° | 242.1 | 254.6 | 267.1 | 275.5 | 279.6 | 283.8 | 287.9 | 292.2 |
| 87.5° | 219.3 | 231.5 | 243.6 | 251.5 | 255.3 | 259.1 | 263.0 | 266.8 |
| 90° | 216.3 | 228.0 | 239.7 | 247.4 | 251.1 | 254.8 | 258.4 | 262.2 |
| 92.5° | 205.2 | 216.9 | 228.6 | 236.3 | 239.8 | 243.5 | 247.1 | 250.6 |
| 95° | 206.0 | 217.3 | 228.6 | 236.0 | 239.3 | 242.8 | 246.1 | 249.4 |
| 97.5° | 213.9 | 224.9 | 235.9 | 243.2 | 246.6 | 250.1 | 253.6 | 257.1 |
| 100° | 219.1 | 230.1 | 241.3 | 248.3 | 251.5 | 254.7 | 257.8 | 261.1 |
| 102.5° | 226.4 | 237.2 | 248.1 | 255.1 | 258.3 | 261.5 | 264.6 | 267.8 |
| 105° | 237.1 | 247.8 | 258.4 | 265.4 | 268.6 | 271.9 | 275.2 | 278.4 |
| 107.5° | 249.8 | 259.9 | 270.0 | 276.5 | 279.3 | 282.2 | 284.9 | 287.7 |
| 110° | 259.1 | 268.7 | 278.2 | 284.5 | 287.4 | 290.4 | 293.4 | 296.4 |



TEST NUMBER: P331558-840

CATALOG NUMBER: S122DIW-S865D435U840-4F0-1E-UDD-D1

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 268.4 | 277.7 | 286.9 | 293.2 | 296.2 | 299.2 | 302.3 | 305.3 |
| 115° | 282.9 | 291.8 | 300.5 | 306.5 | 309.4 | 312.5 | 315.4 | 318.3 |
| 117.5° | 296.5 | 305.1 | 313.6 | 319.2 | 321.9 | 324.8 | 327.5 | 330.2 |
| 120° | 305.7 | 314.0 | 322.3 | 328.0 | 330.9 | 334.0 | 336.9 | 339.9 |
| 122.5° | 315.9 | 323.7 | 331.5 | 336.8 | 339.3 | 341.9 | 344.5 | 347.1 |
| 125° | 330.0 | 337.8 | 345.6 | 350.7 | 353.3 | 355.9 | 358.4 | 361.0 |
| 127.5° | 343.7 | 350.7 | 357.7 | 362.3 | 364.7 | 367.0 | 369.3 | 371.5 |
| 130° | 353.6 | 360.5 | 367.5 | 371.9 | 373.9 | 375.9 | 377.9 | 379.8 |
| 132.5° | 363.0 | 369.5 | 376.0 | 380.2 | 382.2 | 384.4 | 386.4 | 388.4 |
| 135° | 377.5 | 383.6 | 389.8 | 393.9 | 396.0 | 398.1 | 400.2 | 402.2 |
| 137.5° | 391.3 | 396.7 | 402.1 | 405.6 | 407.2 | 408.8 | 410.4 | 412.0 |
| 140° | 401.1 | 405.9 | 410.6 | 413.7 | 415.1 | 416.5 | 417.9 | 419.2 |
| 142.5° | 411.1 | 415.1 | 418.9 | 421.4 | 422.5 | 423.7 | 424.9 | 426.0 |
| 145° | 427.9 | 429.8 | 431.7 | 433.1 | 434.2 | 435.4 | 436.4 | 437.5 |
| 147.5° | 443.5 | 444.0 | 444.4 | 444.8 | 445.1 | 445.6 | 445.9 | 446.2 |
| 150° | 454.9 | 455.2 | 455.6 | 455.6 | 455.2 | 454.9 | 454.6 | 454.3 |
| 152.5° | 466.8 | 467.2 | 467.6 | 467.6 | 467.2 | 466.8 | 466.5 | 466.1 |
| 155° | 481.9 | 482.4 | 482.9 | 483.0 | 482.7 | 482.4 | 482.1 | 481.8 |
| 157.5° | 495.7 | 496.4 | 497.2 | 497.3 | 496.8 | 496.2 | 495.8 | 495.3 |
| 160° | 504.0 | 504.6 | 505.2 | 505.3 | 504.9 | 504.5 | 504.1 | 503.7 |
| 162.5° | 511.5 | 512.2 | 512.9 | 513.0 | 512.5 | 512.0 | 511.5 | 511.1 |
| 165° | 521.2 | 521.9 | 522.6 | 522.7 | 522.2 | 521.7 | 521.2 | 520.7 |
| 167.5° | 529.2 | 529.9 | 530.6 | 530.7 | 530.1 | 529.6 | 529.1 | 528.6 |
| 170° | 533.5 | 534.2 | 534.9 | 535.0 | 534.4 | 533.8 | 533.2 | 532.6 |
| 172.5° | 536.8 | 537.6 | 538.3 | 538.3 | 537.7 | 537.0 | 536.4 | 535.8 |
| 175° | 540.4 | 541.1 | 541.8 | 541.9 | 541.3 | 540.7 | 540.1 | 539.5 |
| 177.5° | 542.1 | 542.5 | 543.0 | 543.0 | 542.5 | 542.1 | 541.6 | 541.1 |
| 180° | 542.2 | 542.2 | 542.2 | 542.2 | 542.2 | 542.2 | 542.2 | 542.2 |

(END OF REPORT)