

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: P333761

Luminaire Tested: **S122DW-S485D930-4F0-1E-UDD-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P333761
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-19)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S122DW-S485D930-4F0-1E-UDD-A
Description: DEFINE 2 DIRECT LED LUMINAIRE, ASYMMETRIC DIFFUSER
PENDANT/SURFACE/WALL MOUNT, 485 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

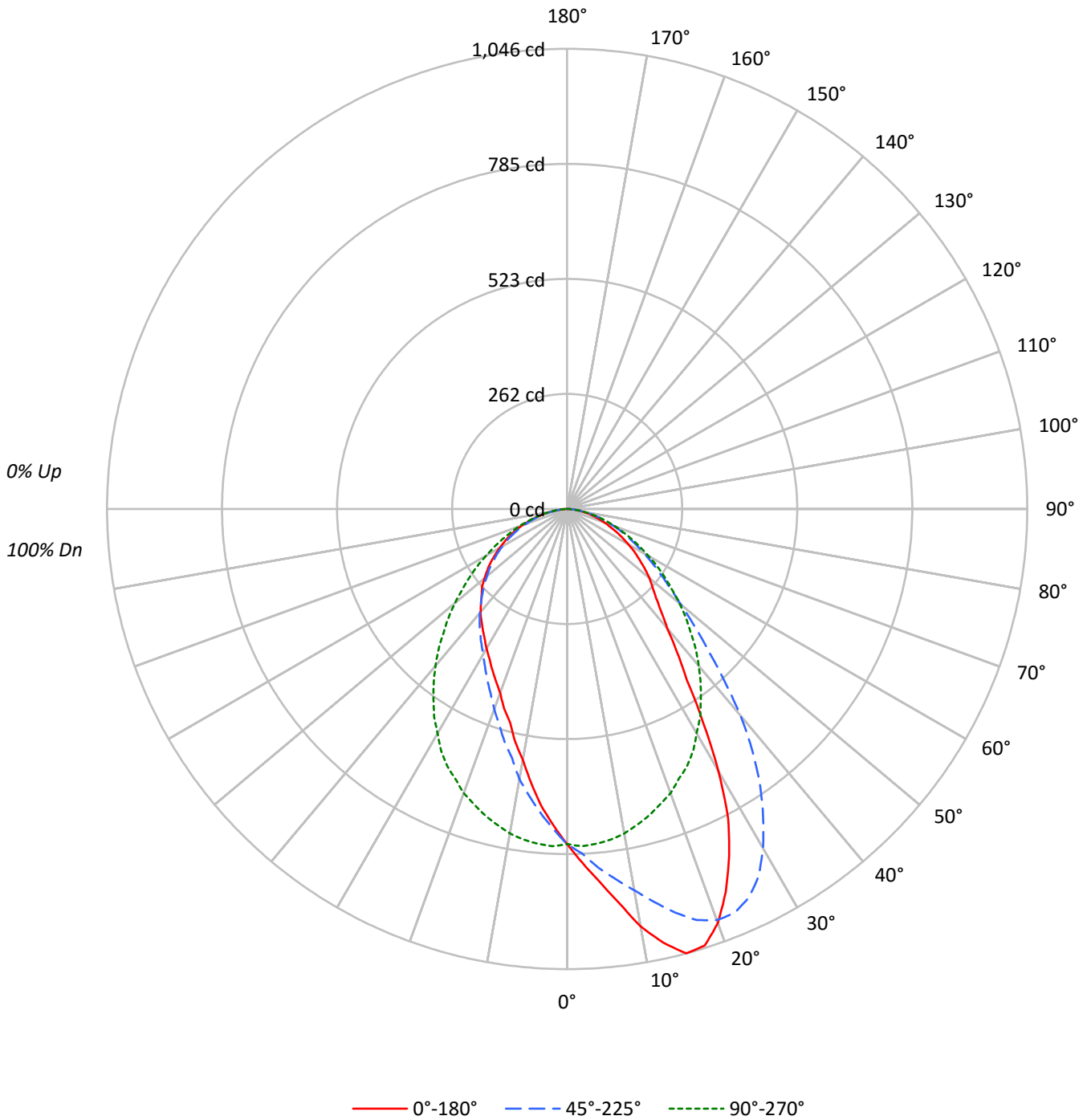
Lumens per Lamp: N/A
Luminaire Lumens: 1680.3 lumens
Efficiency: N/A
Efficacy: 89.4 lumens/watt
Spacing Criteria (0/90/45): 1.09 / 1.16 / 1.23
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Direct

Input Watts (W): 18.8
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: P333761
CATALOG NUMBER: S122DW-S485D930-4F0-1E-UDD-A

Luminous Intensity Polar Plot





TEST NUMBER: P333761

CATALOG NUMBER: S122DW-S485D930-4F0-1E-UDD-A

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 | 50 | 30 | 10 | 50 | 30 | 10 | 0 | | |
| RCR | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | | |
| 1 | 110 | 106 | 102 | 98 | 107 | 103 | 100 | 97 | 99 | 96 | 94 | 95 | 93 | 91 | 92 | 90 | 88 | 86 | 86 | 86 | 86 | 86 | 86 | 86 | | |
| 2 | 101 | 94 | 87 | 82 | 98 | 92 | 86 | 81 | 88 | 83 | 79 | 85 | 81 | 78 | 82 | 79 | 76 | 74 | 74 | 74 | 74 | 74 | 74 | 74 | | |
| 3 | 93 | 83 | 76 | 70 | 90 | 82 | 75 | 69 | 79 | 73 | 68 | 76 | 71 | 67 | 74 | 69 | 66 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | | |
| 4 | 86 | 75 | 66 | 60 | 83 | 73 | 66 | 60 | 71 | 64 | 59 | 69 | 63 | 58 | 66 | 62 | 58 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | | |
| 5 | 79 | 67 | 59 | 53 | 77 | 66 | 58 | 52 | 64 | 57 | 52 | 62 | 56 | 51 | 60 | 55 | 51 | 49 | 49 | 49 | 49 | 49 | 49 | 49 | | |
| 6 | 74 | 61 | 53 | 47 | 72 | 60 | 52 | 46 | 58 | 51 | 46 | 57 | 51 | 46 | 55 | 50 | 45 | 43 | 43 | 43 | 43 | 43 | 43 | 43 | | |
| 7 | 69 | 56 | 48 | 42 | 67 | 55 | 47 | 42 | 54 | 46 | 41 | 52 | 46 | 41 | 51 | 45 | 41 | 39 | 39 | 39 | 39 | 39 | 39 | 39 | | |
| 8 | 64 | 51 | 43 | 38 | 63 | 51 | 43 | 38 | 49 | 42 | 37 | 48 | 42 | 37 | 47 | 41 | 37 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | | |
| 9 | 60 | 47 | 39 | 34 | 59 | 47 | 39 | 34 | 46 | 39 | 34 | 45 | 38 | 34 | 44 | 38 | 34 | 32 | 32 | 32 | 32 | 32 | 32 | 32 | | |
| 10 | 56 | 44 | 36 | 31 | 55 | 43 | 36 | 31 | 42 | 36 | 31 | 41 | 35 | 31 | 41 | 35 | 31 | 29 | 29 | 29 | 29 | 29 | 29 | 29 | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° |
|-----|-------|-------|-------|
| 0° | 12298 | 12298 | 12298 |
| 5° | 13788 | 12378 | 10969 |
| 10° | 15800 | 12277 | 9493 |
| 15° | 17479 | 12052 | 8386 |
| 20° | 17211 | 11809 | 7646 |
| 25° | 15520 | 11489 | 7176 |
| 30° | 12825 | 10975 | 6833 |
| 35° | 9347 | 10439 | 6589 |
| 40° | 7465 | 9805 | 6454 |
| 45° | 6524 | 9070 | 6270 |
| 50° | 6131 | 8359 | 6146 |
| 55° | 5652 | 7640 | 5982 |
| 60° | 5180 | 6872 | 5729 |
| 65° | 4718 | 6185 | 5478 |
| 70° | 4282 | 5514 | 5113 |
| 75° | 3799 | 4766 | 4529 |
| 80° | 3264 | 3942 | 3645 |
| 85° | 2927 | 2927 | 2167 |



TEST NUMBER: P333761

CATALOG NUMBER: S122DW-S485D930-4F0-1E-UDD-A

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 72.6 | 4.3 |
| 10°-20° | 211.2 | 12.6 |
| 20°-30° | 306.5 | 18.2 |
| 30°-40° | 323.1 | 19.2 |
| 40°-50° | 285.8 | 17.0 |
| 50°-60° | 228.2 | 13.6 |
| 60°-70° | 155.0 | 9.2 |
| 70°-80° | 79.3 | 4.7 |
| 80°-90° | 18.7 | 1.1 |
| 90°-100° | 0.0 | 0.0 |
| 100°-110° | 0.0 | 0.0 |
| 110°-120° | 0.0 | 0.0 |
| 120°-130° | 0.0 | 0.0 |
| 130°-140° | 0.0 | 0.0 |
| 140°-150° | 0.0 | 0.0 |
| 150°-160° | 0.0 | 0.0 |
| 160°-170° | 0.0 | 0.0 |
| 170°-180° | 0.0 | 0.0 |
| 0°-30° | 590.2 | 35.1 |
| 0°-40° | 913.2 | 54.3 |
| 0°-60° | 1427.3 | 84.9 |
| 0°-90° | 1680.3 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 1680.3 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|-----|-----|------|------|------|
| 0° | 762 | 762 | 762 | 762 | 762 | |
| 5° | 851 | 819 | 764 | 694 | 677 | 85 |
| 15° | 1046 | 950 | 721 | 548 | 502 | 290 |
| 25° | 871 | 975 | 645 | 429 | 403 | 395 |
| 35° | 474 | 764 | 530 | 344 | 334 | 307 |
| 45° | 286 | 452 | 397 | 272 | 275 | 224 |
| 55° | 201 | 260 | 271 | 205 | 212 | 180 |
| 65° | 124 | 154 | 162 | 135 | 143 | 123 |
| 75° | 61 | 75 | 76 | 68 | 73 | 65 |
| 85° | 16 | 17 | 16 | 13 | 12 | 18 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P333761

CATALOG NUMBER: S122DW-S485D930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|
| 0° | 761.7 | 761.7 | 761.7 | 761.7 | 761.7 | 761.7 | 761.7 | 761.7 | 761.7 | 761.7 | 761.7 |
| 2.5° | 805.6 | 805.9 | 806.5 | 801.8 | 801.2 | 801.2 | 797.1 | 793.6 | 789.5 | 783.9 | 784.5 |
| 5° | 850.7 | 853.9 | 855.1 | 851.6 | 846.3 | 845.7 | 840.7 | 832.5 | 824.9 | 818.8 | 814.4 |
| 7.5° | 902.8 | 904.0 | 901.6 | 897.5 | 894.0 | 887.3 | 879.1 | 871.2 | 859.5 | 848.9 | 841.3 |
| 10° | 963.7 | 965.4 | 960.5 | 953.7 | 948.2 | 940.0 | 926.5 | 912.8 | 896.1 | 880.0 | 867.1 |
| 12.5° | 1009.9 | 1014.9 | 1008.2 | 1008.8 | 998.2 | 986.2 | 969.5 | 964.3 | 939.1 | 915.1 | 901.0 |
| 15° | 1045.7 | 1045.4 | 1045.9 | 1040.4 | 1033.4 | 1031.6 | 1014.6 | 996.2 | 963.1 | 949.9 | 927.1 |
| 17.5° | 1040.4 | 1044.5 | 1046.8 | 1045.1 | 1043.9 | 1041.3 | 1033.9 | 1020.2 | 1002.0 | 979.8 | 952.6 |
| 20° | 1001.7 | 1007.6 | 1008.5 | 1015.2 | 1019.0 | 1024.0 | 1026.0 | 1022.8 | 1012.6 | 994.7 | 971.9 |
| 22.5° | 942.0 | 942.6 | 945.8 | 957.2 | 966.6 | 981.0 | 988.6 | 1002.9 | 1000.6 | 994.1 | 976.0 |
| 25° | 871.2 | 868.3 | 878.5 | 883.8 | 902.8 | 922.7 | 937.0 | 952.9 | 966.9 | 975.4 | 969.8 |
| 27.5° | 792.7 | 786.6 | 802.1 | 815.9 | 829.3 | 848.6 | 870.3 | 896.1 | 915.7 | 942.3 | 948.8 |
| 30° | 687.9 | 690.6 | 705.2 | 720.1 | 743.5 | 774.0 | 799.2 | 828.1 | 859.5 | 890.2 | 911.6 |
| 32.5° | 574.9 | 586.9 | 594.8 | 619.7 | 639.6 | 674.5 | 714.3 | 752.3 | 793.3 | 829.3 | 865.3 |
| 35° | 474.2 | 485.9 | 498.8 | 515.5 | 544.5 | 578.2 | 614.2 | 663.0 | 716.3 | 764.0 | 803.3 |
| 37.5° | 410.4 | 408.4 | 416.3 | 428.6 | 453.4 | 482.4 | 525.2 | 574.9 | 638.7 | 691.7 | 744.4 |
| 40° | 354.2 | 353.0 | 358.3 | 369.4 | 387.3 | 407.2 | 443.5 | 485.9 | 544.2 | 612.7 | 678.6 |
| 42.5° | 315.6 | 316.7 | 319.1 | 326.1 | 336.9 | 352.5 | 377.3 | 411.9 | 464.0 | 527.5 | 599.5 |
| 45° | 285.7 | 287.8 | 291.0 | 294.8 | 301.8 | 315.3 | 330.5 | 356.3 | 398.4 | 452.3 | 521.9 |
| 47.5° | 262.3 | 262.9 | 266.4 | 269.9 | 274.0 | 282.2 | 295.7 | 312.1 | 344.3 | 390.2 | 452.6 |
| 50° | 244.1 | 242.1 | 244.4 | 247.1 | 251.5 | 256.7 | 264.9 | 280.1 | 300.1 | 335.5 | 385.5 |
| 52.5° | 221.9 | 222.5 | 224.5 | 225.1 | 228.9 | 234.2 | 241.5 | 250.9 | 268.4 | 294.2 | 333.1 |
| 55° | 200.8 | 202.3 | 203.5 | 205.2 | 208.7 | 212.5 | 218.4 | 225.4 | 239.5 | 260.2 | 290.7 |
| 57.5° | 180.9 | 181.5 | 182.4 | 186.2 | 188.2 | 191.7 | 197.6 | 204.0 | 213.4 | 229.5 | 253.5 |
| 60° | 160.4 | 160.4 | 162.8 | 164.2 | 167.2 | 170.7 | 175.1 | 181.2 | 189.4 | 202.0 | 220.4 |
| 62.5° | 141.7 | 141.4 | 142.0 | 144.6 | 146.7 | 149.9 | 154.3 | 159.2 | 166.9 | 177.7 | 192.0 |
| 65° | 123.5 | 122.9 | 124.7 | 125.3 | 127.6 | 130.9 | 134.4 | 139.9 | 146.1 | 154.3 | 167.7 |
| 67.5° | 105.4 | 106.3 | 107.4 | 108.6 | 109.8 | 113.6 | 115.9 | 120.0 | 125.3 | 132.3 | 141.7 |
| 70° | 90.7 | 90.7 | 90.7 | 91.6 | 93.4 | 95.1 | 97.5 | 100.7 | 105.7 | 111.5 | 119.7 |
| 72.5° | 74.4 | 75.5 | 76.7 | 75.8 | 78.2 | 79.0 | 82.0 | 83.4 | 88.1 | 91.3 | 98.4 |
| 75° | 60.9 | 60.9 | 60.9 | 62.4 | 63.2 | 64.1 | 65.9 | 67.6 | 70.0 | 74.6 | 78.5 |
| 77.5° | 48.0 | 47.7 | 48.0 | 48.3 | 49.5 | 50.6 | 51.2 | 52.7 | 55.0 | 57.4 | 60.9 |
| 80° | 35.1 | 35.7 | 36.0 | 36.6 | 36.6 | 37.2 | 37.5 | 39.5 | 41.0 | 42.4 | 44.5 |
| 82.5° | 25.2 | 25.2 | 25.2 | 25.2 | 25.5 | 25.8 | 26.6 | 26.9 | 27.2 | 28.4 | 29.9 |
| 85° | 15.8 | 15.5 | 15.5 | 16.1 | 15.8 | 15.8 | 16.4 | 17.0 | 17.0 | 17.3 | 18.1 |
| 87.5° | 7.6 | 7.6 | 7.9 | 7.6 | 7.6 | 7.9 | 7.9 | 7.6 | 7.9 | 8.2 | 8.5 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



TEST NUMBER: P333761

CATALOG NUMBER: S122DW-S485D930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° | 95° | 100° | 105° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 761.7 | 761.7 | 761.7 | 761.7 | 761.7 | 761.7 | 761.7 | 761.7 | 761.7 | 761.7 | 761.7 |
| 2.5° | 786.6 | 784.2 | 782.8 | 777.5 | 772.8 | 768.1 | 766.7 | 767.3 | 760.8 | 754.7 | 752.0 |
| 5° | 812.0 | 806.2 | 800.6 | 792.7 | 783.4 | 773.1 | 767.8 | 763.7 | 753.5 | 742.4 | 735.9 |
| 7.5° | 835.2 | 827.6 | 817.6 | 803.6 | 790.7 | 775.5 | 766.1 | 758.2 | 743.8 | 728.9 | 719.8 |
| 10° | 856.0 | 844.5 | 830.8 | 812.6 | 795.9 | 776.3 | 762.6 | 748.8 | 731.3 | 712.5 | 700.8 |
| 12.5° | 873.8 | 857.4 | 844.0 | 819.4 | 798.9 | 773.1 | 756.1 | 735.4 | 716.6 | 693.5 | 682.1 |
| 15° | 904.3 | 875.9 | 850.1 | 823.8 | 799.5 | 765.2 | 747.1 | 721.0 | 696.7 | 669.2 | 656.0 |
| 17.5° | 926.8 | 896.1 | 856.3 | 824.3 | 797.4 | 760.8 | 734.8 | 703.7 | 676.2 | 645.8 | 628.2 |
| 20° | 945.5 | 908.9 | 865.3 | 825.5 | 791.6 | 748.2 | 719.3 | 687.3 | 653.7 | 618.3 | 598.9 |
| 22.5° | 956.7 | 917.7 | 874.7 | 821.1 | 779.8 | 738.0 | 699.6 | 663.9 | 629.7 | 590.7 | 570.2 |
| 25° | 957.2 | 922.1 | 876.5 | 819.1 | 770.5 | 722.8 | 678.9 | 644.9 | 603.6 | 567.9 | 538.3 |
| 27.5° | 947.6 | 919.8 | 875.6 | 815.0 | 759.6 | 704.9 | 657.2 | 620.0 | 576.4 | 537.8 | 508.2 |
| 30° | 926.2 | 911.6 | 868.8 | 808.0 | 746.2 | 686.2 | 632.3 | 588.7 | 545.4 | 506.1 | 475.7 |
| 32.5° | 893.1 | 892.8 | 856.5 | 798.0 | 731.8 | 662.5 | 606.3 | 562.1 | 512.9 | 474.5 | 445.8 |
| 35° | 847.8 | 861.8 | 838.1 | 782.2 | 713.1 | 640.2 | 579.9 | 529.6 | 479.8 | 442.9 | 415.7 |
| 37.5° | 790.1 | 822.6 | 813.2 | 761.1 | 689.1 | 616.5 | 550.9 | 498.2 | 450.5 | 412.5 | 385.8 |
| 40° | 730.1 | 774.6 | 781.0 | 736.2 | 663.3 | 588.1 | 517.6 | 465.2 | 418.9 | 384.9 | 358.0 |
| 42.5° | 665.7 | 719.5 | 740.0 | 706.4 | 635.2 | 558.2 | 487.7 | 433.0 | 387.3 | 354.5 | 331.4 |
| 45° | 592.2 | 661.0 | 692.9 | 672.4 | 603.3 | 524.9 | 452.3 | 397.2 | 355.7 | 324.6 | 306.2 |
| 47.5° | 525.8 | 600.4 | 641.1 | 631.4 | 569.1 | 491.2 | 419.5 | 365.9 | 324.6 | 299.5 | 282.2 |
| 50° | 454.3 | 531.6 | 583.4 | 585.8 | 531.6 | 454.6 | 382.6 | 332.8 | 295.7 | 272.5 | 259.1 |
| 52.5° | 392.3 | 465.2 | 522.8 | 537.8 | 489.7 | 416.6 | 349.5 | 300.1 | 268.4 | 247.7 | 235.9 |
| 55° | 339.9 | 402.2 | 464.9 | 487.7 | 448.2 | 377.9 | 315.0 | 271.4 | 240.6 | 226.0 | 215.5 |
| 57.5° | 290.1 | 344.8 | 404.3 | 428.3 | 403.1 | 341.3 | 280.4 | 242.1 | 216.0 | 202.9 | 194.7 |
| 60° | 252.3 | 293.3 | 344.8 | 375.0 | 353.9 | 300.3 | 248.8 | 212.8 | 192.3 | 180.9 | 173.3 |
| 62.5° | 217.2 | 252.3 | 293.9 | 320.8 | 311.8 | 262.0 | 217.2 | 186.5 | 169.5 | 159.0 | 154.0 |
| 65° | 185.0 | 213.7 | 247.4 | 272.8 | 265.2 | 226.9 | 189.1 | 161.9 | 147.8 | 139.3 | 135.0 |
| 67.5° | 157.5 | 179.4 | 203.5 | 226.9 | 220.4 | 192.0 | 160.1 | 138.2 | 127.3 | 119.7 | 117.1 |
| 70° | 131.7 | 147.5 | 168.3 | 186.2 | 181.2 | 159.0 | 135.0 | 116.8 | 107.7 | 101.6 | 98.9 |
| 72.5° | 107.1 | 119.4 | 134.1 | 147.8 | 144.9 | 127.3 | 108.3 | 95.7 | 89.3 | 83.7 | 81.7 |
| 75° | 84.6 | 94.6 | 104.2 | 113.9 | 113.0 | 98.7 | 86.9 | 76.4 | 70.8 | 66.5 | 65.6 |
| 77.5° | 66.2 | 72.3 | 79.3 | 85.5 | 84.0 | 74.6 | 65.0 | 58.5 | 54.2 | 51.2 | 50.9 |
| 80° | 47.7 | 50.9 | 55.6 | 59.7 | 57.7 | 54.2 | 46.8 | 42.4 | 39.5 | 36.6 | 35.4 |
| 82.5° | 31.3 | 34.5 | 36.9 | 38.6 | 37.2 | 34.0 | 30.2 | 27.5 | 26.1 | 24.3 | 24.0 |
| 85° | 18.1 | 19.9 | 21.1 | 21.7 | 21.1 | 19.0 | 17.0 | 15.8 | 14.3 | 13.5 | 13.2 |
| 87.5° | 8.8 | 8.8 | 8.8 | 9.4 | 8.5 | 8.5 | 7.3 | 6.4 | 6.1 | 5.9 | 5.3 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



TEST NUMBER: P333761

CATALOG NUMBER: S122DW-S485D930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

| | 110° | 115° | 120° | 125° | 130° | 135° | 140° | 145° | 150° | 155° | 160° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 761.7 | 761.7 | 761.7 | 761.7 | 761.7 | 761.7 | 761.7 | 761.7 | 761.7 | 761.7 | 761.7 |
| 2.5° | 749.1 | 747.4 | 741.2 | 738.0 | 732.7 | 727.7 | 724.5 | 726.0 | 727.2 | 726.6 | 725.7 |
| 5° | 730.1 | 724.5 | 716.0 | 708.7 | 703.4 | 693.8 | 689.7 | 687.6 | 685.9 | 683.8 | 681.8 |
| 7.5° | 709.0 | 701.1 | 689.1 | 679.7 | 670.4 | 658.1 | 651.9 | 648.4 | 644.6 | 640.2 | 636.1 |
| 10° | 686.2 | 673.9 | 661.0 | 646.4 | 634.7 | 623.8 | 614.2 | 607.7 | 601.9 | 596.3 | 592.2 |
| 12.5° | 662.2 | 647.5 | 630.8 | 609.5 | 596.3 | 579.6 | 580.2 | 567.6 | 557.7 | 554.7 | 549.8 |
| 15° | 636.4 | 616.5 | 596.3 | 572.6 | 562.3 | 548.3 | 539.5 | 530.7 | 522.8 | 517.3 | 515.8 |
| 17.5° | 608.3 | 581.7 | 562.1 | 544.5 | 527.8 | 513.5 | 505.8 | 498.8 | 492.1 | 483.9 | 483.6 |
| 20° | 575.2 | 553.0 | 531.0 | 516.1 | 498.8 | 484.2 | 474.2 | 467.2 | 461.6 | 457.3 | 453.4 |
| 22.5° | 543.9 | 519.0 | 499.4 | 482.7 | 465.7 | 454.6 | 447.3 | 440.6 | 436.2 | 431.2 | 427.7 |
| 25° | 509.9 | 490.9 | 469.0 | 450.5 | 436.5 | 428.9 | 422.4 | 416.6 | 413.6 | 410.4 | 406.3 |
| 27.5° | 481.0 | 459.9 | 438.2 | 423.9 | 411.0 | 404.3 | 399.3 | 394.9 | 392.3 | 390.2 | 387.6 |
| 30° | 449.9 | 428.6 | 412.5 | 398.4 | 388.2 | 381.4 | 378.5 | 376.2 | 372.9 | 371.8 | 370.6 |
| 32.5° | 420.1 | 401.3 | 388.2 | 376.5 | 366.8 | 363.0 | 360.4 | 358.3 | 356.0 | 354.8 | 352.2 |
| 35° | 392.3 | 376.2 | 362.7 | 356.0 | 348.1 | 344.3 | 342.2 | 339.3 | 336.9 | 335.8 | 335.5 |
| 37.5° | 365.6 | 351.0 | 341.9 | 332.8 | 329.0 | 327.0 | 324.1 | 322.0 | 321.1 | 320.8 | 320.5 |
| 40° | 339.9 | 328.4 | 320.5 | 313.5 | 312.1 | 308.5 | 306.2 | 304.4 | 304.4 | 304.7 | 304.4 |
| 42.5° | 316.4 | 306.5 | 299.8 | 293.9 | 292.2 | 290.4 | 288.1 | 288.3 | 288.9 | 290.1 | 288.9 |
| 45° | 292.7 | 285.4 | 280.4 | 277.5 | 274.3 | 272.2 | 272.0 | 272.8 | 273.1 | 273.4 | 274.3 |
| 47.5° | 270.5 | 265.8 | 261.1 | 257.6 | 256.1 | 255.9 | 255.3 | 256.7 | 258.2 | 258.5 | 259.9 |
| 50° | 251.2 | 245.6 | 241.8 | 239.8 | 238.6 | 238.0 | 238.6 | 240.3 | 241.5 | 243.0 | 243.8 |
| 52.5° | 229.5 | 226.0 | 223.7 | 222.2 | 221.9 | 222.5 | 222.5 | 224.5 | 226.6 | 226.9 | 227.2 |
| 55° | 209.9 | 207.0 | 206.4 | 203.7 | 204.9 | 204.6 | 206.1 | 207.3 | 209.0 | 210.8 | 211.1 |
| 57.5° | 190.0 | 187.4 | 185.6 | 185.9 | 186.2 | 187.4 | 188.5 | 190.6 | 192.6 | 194.7 | 194.7 |
| 60° | 170.1 | 168.9 | 168.0 | 168.0 | 168.6 | 170.4 | 171.8 | 173.9 | 175.1 | 176.2 | 177.1 |
| 62.5° | 151.9 | 150.8 | 149.9 | 150.5 | 152.2 | 153.1 | 154.9 | 155.7 | 156.9 | 158.1 | 158.4 |
| 65° | 132.6 | 132.0 | 132.9 | 133.5 | 133.8 | 135.2 | 137.3 | 138.2 | 139.3 | 139.9 | 142.0 |
| 67.5° | 115.0 | 115.0 | 114.8 | 115.6 | 117.4 | 117.7 | 119.7 | 122.1 | 122.1 | 123.2 | 124.7 |
| 70° | 97.2 | 97.8 | 98.4 | 98.9 | 100.4 | 101.0 | 102.5 | 103.3 | 104.5 | 105.4 | 106.3 |
| 72.5° | 80.8 | 80.8 | 81.4 | 81.1 | 82.3 | 83.7 | 84.9 | 85.8 | 86.9 | 88.1 | 89.0 |
| 75° | 64.7 | 64.7 | 65.3 | 65.6 | 67.0 | 68.5 | 68.2 | 68.8 | 70.0 | 71.1 | 71.7 |
| 77.5° | 50.1 | 49.5 | 50.1 | 50.4 | 50.9 | 52.1 | 52.4 | 53.3 | 54.7 | 54.4 | 55.0 |
| 80° | 36.0 | 35.1 | 36.0 | 36.3 | 36.3 | 37.8 | 37.8 | 38.3 | 39.2 | 38.3 | 39.2 |
| 82.5° | 23.1 | 22.8 | 23.4 | 23.4 | 24.0 | 23.7 | 24.3 | 24.3 | 25.2 | 24.9 | 25.2 |
| 85° | 12.9 | 12.6 | 12.9 | 12.6 | 12.9 | 13.2 | 13.2 | 12.9 | 12.9 | 13.5 | 12.6 |
| 87.5° | 5.0 | 4.7 | 4.4 | 4.4 | 4.1 | 3.8 | 3.5 | 3.5 | 3.5 | 2.9 | 2.9 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



TEST NUMBER: P333761

CATALOG NUMBER: S122DW-S485D930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

| | 165° | 170° | 175° | 180° |
|-------|-------|-------|-------|-------|
| 0° | 761.7 | 761.7 | 761.7 | 761.7 |
| 2.5° | 722.8 | 722.2 | 722.2 | 719.5 |
| 5° | 677.7 | 676.8 | 675.3 | 676.8 |
| 7.5° | 634.9 | 631.1 | 630.6 | 627.6 |
| 10° | 587.2 | 584.9 | 584.6 | 579.0 |
| 12.5° | 550.9 | 544.5 | 546.0 | 543.3 |
| 15° | 507.9 | 507.9 | 506.7 | 501.7 |
| 17.5° | 477.2 | 476.9 | 474.2 | 476.0 |
| 20° | 450.2 | 448.5 | 445.0 | 445.0 |
| 22.5° | 424.8 | 425.1 | 421.2 | 422.7 |
| 25° | 406.0 | 403.7 | 401.9 | 402.8 |
| 27.5° | 386.7 | 385.8 | 385.5 | 382.9 |
| 30° | 370.3 | 367.4 | 368.0 | 366.5 |
| 32.5° | 351.6 | 351.0 | 350.1 | 348.9 |
| 35° | 334.9 | 335.2 | 333.7 | 334.3 |
| 37.5° | 320.0 | 321.1 | 320.3 | 320.3 |
| 40° | 305.3 | 305.3 | 305.3 | 306.2 |
| 42.5° | 291.3 | 290.7 | 290.1 | 289.8 |
| 45° | 274.9 | 275.8 | 276.0 | 274.6 |
| 47.5° | 260.5 | 260.8 | 260.5 | 262.3 |
| 50° | 245.3 | 244.7 | 245.3 | 244.7 |
| 52.5° | 229.2 | 229.5 | 228.9 | 228.9 |
| 55° | 212.2 | 212.8 | 212.5 | 212.5 |
| 57.5° | 195.0 | 195.3 | 195.8 | 194.4 |
| 60° | 176.8 | 178.3 | 178.0 | 177.4 |
| 62.5° | 160.1 | 160.4 | 160.4 | 160.4 |
| 65° | 142.9 | 143.4 | 142.6 | 143.4 |
| 67.5° | 124.1 | 124.4 | 125.0 | 125.3 |
| 70° | 106.8 | 106.6 | 107.4 | 108.3 |
| 72.5° | 88.7 | 89.6 | 89.0 | 89.6 |
| 75° | 71.1 | 72.0 | 71.7 | 72.6 |
| 77.5° | 54.4 | 54.7 | 54.7 | 55.0 |
| 80° | 39.2 | 38.6 | 38.1 | 39.2 |
| 82.5° | 24.3 | 24.9 | 24.3 | 24.0 |
| 85° | 12.6 | 12.3 | 11.7 | 11.7 |
| 87.5° | 2.9 | 2.6 | 2.6 | 2.3 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)