

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: P333926

Luminaire Tested: **S123DW-S560D840-4F0-1E-UDD-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P333926
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-20)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S123DW-S560D840-4F0-1E-UDD-A
Description: DEFINE 3 DIRECT LED LUMINAIRE, ASYMMETRIC DIFFUSER
PENDANT/SURFACE/WALL MOUNT, 560 LUMENS PER FOOT
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

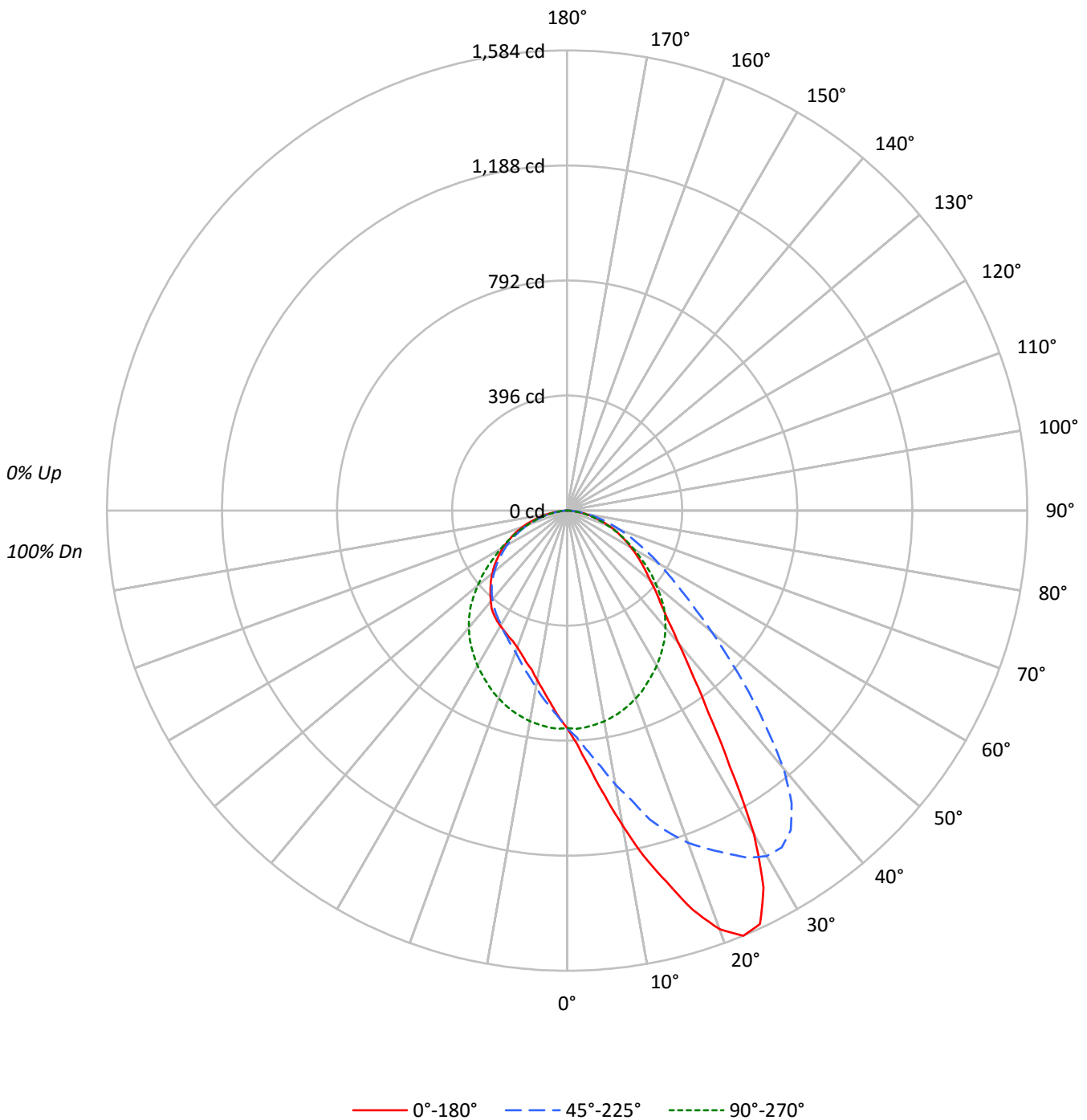
Lumens per Lamp: N/A
Luminaire Lumens: 2258.5 lumens
Efficiency: N/A
Efficacy: 120.1 lumens/watt
Spacing Criteria (0/90/45): 1.37 / 1.23 / 1.5
Luminous Opening: Rectangular (W 4' x L: 0.5' x H: 0')
CIE Type: Direct

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: P333926
CATALOG NUMBER: S123DW-S560D840-4F0-1E-UDD-A

Luminous Intensity Polar Plot





TEST NUMBER: P333926

CATALOG NUMBER: S123DW-S560D840-4F0-1E-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 | | | |
| 1 | 110 | 105 | 101 | 98 | 107 | 103 | 99 | 96 | 99 | 96 | 93 | 95 | 92 | 90 | 91 | 89 | 87 | | | | | 85 | | | | |
| 2 | 100 | 93 | 86 | 81 | 98 | 91 | 85 | 80 | 87 | 82 | 78 | 84 | 80 | 76 | 81 | 78 | 74 | | | | | 72 | | | | |
| 3 | 92 | 82 | 74 | 68 | 89 | 80 | 73 | 67 | 77 | 71 | 66 | 75 | 69 | 65 | 72 | 68 | 64 | | | | | 62 | | | | |
| 4 | 84 | 73 | 65 | 58 | 82 | 72 | 64 | 58 | 69 | 62 | 57 | 67 | 61 | 56 | 65 | 60 | 56 | | | | | 53 | | | | |
| 5 | 78 | 66 | 57 | 51 | 76 | 64 | 56 | 50 | 62 | 55 | 50 | 60 | 54 | 49 | 59 | 53 | 49 | | | | | 47 | | | | |
| 6 | 72 | 59 | 51 | 44 | 70 | 58 | 50 | 44 | 56 | 49 | 44 | 55 | 48 | 43 | 53 | 48 | 43 | | | | | 41 | | | | |
| 7 | 67 | 54 | 45 | 39 | 65 | 53 | 45 | 39 | 52 | 44 | 39 | 50 | 44 | 39 | 49 | 43 | 38 | | | | | 36 | | | | |
| 8 | 62 | 49 | 41 | 35 | 61 | 49 | 41 | 35 | 47 | 40 | 35 | 46 | 39 | 35 | 45 | 39 | 35 | | | | | 33 | | | | |
| 9 | 58 | 45 | 37 | 32 | 57 | 45 | 37 | 32 | 43 | 36 | 32 | 42 | 36 | 31 | 41 | 36 | 31 | | | | | 29 | | | | |
| 10 | 55 | 42 | 34 | 29 | 53 | 41 | 34 | 29 | 40 | 33 | 29 | 39 | 33 | 29 | 38 | 33 | 28 | | | | | 27 | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° |
|-----|------|------|------|
| 0° | 4027 | 4027 | 4027 |
| 5° | 4802 | 4044 | 3584 |
| 10° | 6011 | 4024 | 3237 |
| 15° | 7373 | 3992 | 3014 |
| 20° | 8783 | 3941 | 2869 |
| 25° | 9326 | 3880 | 2837 |
| 30° | 7994 | 3834 | 2852 |
| 35° | 5560 | 3771 | 2882 |
| 40° | 4187 | 3695 | 2873 |
| 45° | 3477 | 3584 | 2837 |
| 50° | 3115 | 3358 | 2811 |
| 55° | 2912 | 3112 | 2776 |
| 60° | 2732 | 2857 | 2747 |
| 65° | 2567 | 2604 | 2659 |
| 70° | 2408 | 2316 | 2533 |
| 75° | 2156 | 2027 | 2323 |
| 80° | 1888 | 1664 | 1999 |
| 85° | 1476 | 1210 | 1346 |



TEST NUMBER: P333926

CATALOG NUMBER: S123DW-S560D840-4F0-1E-UDD-A

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 73.6 | 3.3 |
| 10°-20° | 236.4 | 10.5 |
| 20°-30° | 397.7 | 17.6 |
| 30°-40° | 449.5 | 19.9 |
| 40°-50° | 402.6 | 17.8 |
| 50°-60° | 325.0 | 14.4 |
| 60°-70° | 226.4 | 10.0 |
| 70°-80° | 118.9 | 5.3 |
| 80°-90° | 28.5 | 1.3 |
| 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° | 707.7 | 31.3 |
| 0°-40° | 1157.2 | 51.2 |
| 0°-60° | 1884.8 | 83.5 |
| 0°-90° | 2258.5 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 2258.5 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|-----|------|------|------|
| 0° | 748 | 748 | 748 | 748 | 748 | |
| 5° | 889 | 833 | 749 | 678 | 663 | 91 |
| 15° | 1323 | 1101 | 716 | 565 | 541 | 382 |
| 25° | 1570 | 1302 | 653 | 485 | 478 | 694 |
| 35° | 846 | 1342 | 574 | 429 | 439 | 546 |
| 45° | 457 | 885 | 471 | 367 | 373 | 360 |
| 55° | 310 | 480 | 332 | 284 | 296 | 278 |
| 65° | 202 | 269 | 204 | 192 | 209 | 201 |
| 75° | 104 | 128 | 98 | 97 | 112 | 111 |
| 85° | 24 | 28 | 20 | 19 | 22 | 29 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P333926

CATALOG NUMBER: S123DW-S560D840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 748.3 | 748.3 | 748.3 | 748.3 | 748.3 | 748.3 | 748.3 | 748.3 | 748.3 | 748.3 | 748.3 |
| 2.5° | 805.6 | 804.8 | 803.0 | 804.5 | 801.6 | 797.6 | 797.2 | 793.6 | 783.1 | 782.4 | 779.5 |
| 5° | 888.9 | 886.0 | 885.7 | 885.3 | 880.2 | 873.4 | 860.3 | 859.2 | 841.8 | 833.1 | 822.6 |
| 7.5° | 989.7 | 988.6 | 985.7 | 982.5 | 965.4 | 957.1 | 944.8 | 928.8 | 908.5 | 888.9 | 876.6 |
| 10° | 1099.9 | 1111.9 | 1097.0 | 1086.9 | 1077.5 | 1059.7 | 1039.0 | 1013.3 | 987.6 | 957.5 | 934.6 |
| 12.5° | 1218.1 | 1222.5 | 1222.5 | 1213.1 | 1197.1 | 1167.7 | 1127.1 | 1098.1 | 1074.9 | 1019.8 | 1000.2 |
| 15° | 1323.3 | 1345.4 | 1331.2 | 1298.6 | 1299.3 | 1273.6 | 1225.7 | 1173.2 | 1145.3 | 1101.4 | 1041.6 |
| 17.5° | 1442.2 | 1446.2 | 1441.8 | 1411.4 | 1396.5 | 1359.2 | 1316.0 | 1267.1 | 1214.5 | 1161.2 | 1099.2 |
| 20° | 1533.5 | 1531.4 | 1518.7 | 1504.5 | 1473.4 | 1445.8 | 1397.6 | 1341.4 | 1268.9 | 1216.7 | 1147.4 |
| 22.5° | 1584.3 | 1580.3 | 1576.0 | 1564.7 | 1540.1 | 1510.0 | 1467.9 | 1405.2 | 1337.0 | 1260.2 | 1177.5 |
| 25° | 1570.5 | 1575.2 | 1576.0 | 1572.7 | 1563.6 | 1545.9 | 1511.8 | 1462.8 | 1394.0 | 1301.5 | 1218.1 |
| 27.5° | 1463.9 | 1475.9 | 1491.1 | 1501.3 | 1517.6 | 1528.5 | 1517.6 | 1486.8 | 1430.2 | 1347.6 | 1245.0 |
| 30° | 1286.3 | 1271.8 | 1307.7 | 1353.0 | 1383.8 | 1438.2 | 1468.6 | 1470.5 | 1441.8 | 1373.3 | 1274.0 |
| 32.5° | 1039.8 | 1063.3 | 1074.2 | 1132.6 | 1209.1 | 1271.8 | 1339.9 | 1400.5 | 1414.6 | 1374.8 | 1291.0 |
| 35° | 846.2 | 866.1 | 895.1 | 924.1 | 996.6 | 1059.0 | 1165.6 | 1258.4 | 1332.3 | 1342.1 | 1288.8 |
| 37.5° | 703.3 | 714.9 | 732.7 | 763.5 | 813.2 | 890.4 | 974.9 | 1095.6 | 1197.5 | 1269.3 | 1262.0 |
| 40° | 596.0 | 598.9 | 619.6 | 641.7 | 680.1 | 741.0 | 815.4 | 919.0 | 1047.4 | 1158.7 | 1205.1 |
| 42.5° | 515.5 | 522.8 | 528.6 | 549.6 | 578.3 | 620.3 | 688.1 | 769.3 | 884.2 | 1016.6 | 1118.4 |
| 45° | 456.8 | 464.1 | 469.5 | 483.6 | 505.4 | 536.2 | 584.4 | 662.7 | 752.3 | 884.6 | 1006.8 |
| 47.5° | 416.2 | 415.5 | 420.2 | 431.4 | 447.0 | 471.7 | 507.2 | 559.4 | 645.3 | 755.9 | 883.9 |
| 50° | 372.0 | 377.8 | 379.2 | 387.6 | 399.2 | 416.2 | 444.5 | 487.3 | 554.7 | 648.9 | 764.2 |
| 52.5° | 340.8 | 341.5 | 346.2 | 351.7 | 361.5 | 373.8 | 397.3 | 428.5 | 477.8 | 554.7 | 658.4 |
| 55° | 310.3 | 310.3 | 314.3 | 319.0 | 324.8 | 336.8 | 353.1 | 377.8 | 418.0 | 480.4 | 568.1 |
| 57.5° | 282.1 | 283.5 | 287.1 | 288.2 | 293.3 | 301.6 | 315.8 | 335.3 | 366.2 | 416.6 | 489.1 |
| 60° | 253.8 | 257.0 | 256.7 | 259.6 | 263.9 | 270.1 | 281.7 | 296.9 | 323.7 | 362.2 | 420.9 |
| 62.5° | 229.1 | 228.0 | 228.0 | 231.7 | 236.0 | 241.8 | 248.3 | 261.0 | 282.8 | 315.8 | 363.6 |
| 65° | 201.6 | 200.8 | 203.4 | 205.6 | 207.0 | 211.4 | 217.2 | 228.8 | 244.0 | 269.4 | 308.2 |
| 67.5° | 177.6 | 175.5 | 177.3 | 178.0 | 180.5 | 184.2 | 190.0 | 197.2 | 209.5 | 230.9 | 262.1 |
| 70° | 153.0 | 151.2 | 150.8 | 151.5 | 153.7 | 156.3 | 160.2 | 167.1 | 178.4 | 194.7 | 216.1 |
| 72.5° | 127.6 | 126.5 | 126.5 | 128.3 | 129.1 | 130.5 | 133.1 | 139.2 | 147.6 | 158.8 | 178.4 |
| 75° | 103.7 | 103.7 | 103.7 | 104.0 | 105.1 | 106.6 | 108.8 | 112.0 | 118.9 | 127.6 | 141.0 |
| 77.5° | 81.9 | 82.3 | 81.6 | 81.2 | 83.0 | 83.7 | 84.1 | 87.7 | 91.7 | 98.2 | 108.8 |
| 80° | 60.9 | 59.1 | 59.8 | 60.9 | 61.6 | 62.0 | 63.1 | 63.8 | 67.1 | 70.3 | 77.2 |
| 82.5° | 41.3 | 39.9 | 39.9 | 41.7 | 41.7 | 42.1 | 43.1 | 44.2 | 45.0 | 47.9 | 50.8 |
| 85° | 23.9 | 23.9 | 24.3 | 24.3 | 24.7 | 24.3 | 25.4 | 25.7 | 25.7 | 27.6 | 29.7 |
| 87.5° | 10.9 | 10.2 | 10.5 | 10.9 | 10.5 | 10.9 | 11.2 | 11.6 | 12.0 | 12.3 | 12.7 |
| 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: P333926

CATALOG NUMBER: S123DW-S560D840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° | 95° | 100° | 105° |
|-------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 748.3 | 748.3 | 748.3 | 748.3 | 748.3 | 748.3 | 748.3 | 748.3 | 748.3 | 748.3 | 748.3 |
| 2.5° | 777.3 | 774.4 | 771.5 | 766.4 | 762.1 | 755.9 | 754.1 | 751.9 | 745.4 | 739.6 | 735.2 |
| 5° | 818.6 | 809.9 | 797.2 | 785.6 | 776.2 | 763.5 | 756.3 | 748.6 | 737.8 | 728.0 | 720.0 |
| 7.5° | 858.1 | 842.9 | 825.1 | 805.9 | 787.4 | 769.7 | 755.5 | 742.8 | 728.7 | 714.9 | 704.4 |
| 10° | 907.1 | 882.4 | 854.9 | 825.1 | 799.8 | 775.1 | 754.4 | 736.3 | 716.7 | 699.7 | 685.6 |
| 12.5° | 962.9 | 923.4 | 882.8 | 845.1 | 813.9 | 777.3 | 751.2 | 726.9 | 704.1 | 682.7 | 666.3 |
| 15° | 1004.6 | 958.2 | 913.2 | 863.6 | 817.9 | 775.1 | 745.4 | 716.4 | 690.6 | 669.6 | 649.3 |
| 17.5° | 1045.9 | 995.2 | 937.9 | 878.1 | 824.4 | 775.1 | 734.5 | 703.3 | 671.8 | 646.4 | 626.8 |
| 20° | 1080.0 | 1020.2 | 953.1 | 890.4 | 829.5 | 772.9 | 727.3 | 688.1 | 653.3 | 626.1 | 603.3 |
| 22.5° | 1109.4 | 1036.9 | 966.9 | 898.7 | 829.1 | 767.1 | 713.8 | 673.2 | 634.8 | 608.3 | 583.7 |
| 25° | 1127.9 | 1044.1 | 974.5 | 895.8 | 820.1 | 757.0 | 699.0 | 653.3 | 615.6 | 584.4 | 559.4 |
| 27.5° | 1145.3 | 1043.0 | 964.4 | 879.5 | 809.2 | 746.5 | 684.1 | 635.2 | 595.7 | 561.9 | 536.2 |
| 30° | 1162.7 | 1044.8 | 946.6 | 862.8 | 791.8 | 726.5 | 666.3 | 617.0 | 575.0 | 540.5 | 516.6 |
| 32.5° | 1173.5 | 1043.8 | 930.3 | 839.6 | 764.2 | 708.4 | 647.1 | 595.7 | 552.1 | 518.4 | 495.6 |
| 35° | 1176.4 | 1037.6 | 911.1 | 805.9 | 734.1 | 677.9 | 626.8 | 573.9 | 528.6 | 497.0 | 470.9 |
| 37.5° | 1170.3 | 1026.4 | 890.0 | 775.5 | 697.9 | 642.1 | 597.5 | 552.1 | 508.6 | 473.5 | 450.6 |
| 40° | 1150.3 | 1015.5 | 864.7 | 742.8 | 660.2 | 606.9 | 570.3 | 526.0 | 483.3 | 450.3 | 429.2 |
| 42.5° | 1112.3 | 993.4 | 836.7 | 706.6 | 621.0 | 567.7 | 534.7 | 499.6 | 459.7 | 429.2 | 408.2 |
| 45° | 1045.6 | 959.3 | 808.8 | 670.3 | 582.6 | 527.5 | 497.8 | 470.9 | 434.3 | 404.2 | 386.1 |
| 47.5° | 960.4 | 913.2 | 768.6 | 632.3 | 542.4 | 489.1 | 457.9 | 435.8 | 407.1 | 382.8 | 365.1 |
| 50° | 870.8 | 853.8 | 727.6 | 593.1 | 502.1 | 450.3 | 420.5 | 401.0 | 381.8 | 357.5 | 341.5 |
| 52.5° | 767.5 | 784.9 | 679.8 | 552.5 | 461.2 | 410.4 | 382.8 | 368.3 | 351.3 | 332.4 | 319.0 |
| 55° | 671.8 | 709.9 | 623.2 | 506.1 | 420.5 | 372.0 | 345.5 | 331.7 | 321.6 | 306.7 | 294.7 |
| 57.5° | 579.0 | 627.6 | 564.5 | 459.3 | 380.7 | 338.2 | 312.1 | 296.6 | 290.0 | 281.7 | 271.9 |
| 60° | 498.1 | 546.0 | 500.7 | 412.2 | 340.4 | 300.5 | 278.1 | 265.4 | 258.9 | 253.4 | 245.4 |
| 62.5° | 426.0 | 474.6 | 438.3 | 364.4 | 300.9 | 264.7 | 245.8 | 233.5 | 228.8 | 226.6 | 220.1 |
| 65° | 361.1 | 402.8 | 377.4 | 314.3 | 263.6 | 230.9 | 213.2 | 204.5 | 199.8 | 198.7 | 194.3 |
| 67.5° | 304.9 | 337.2 | 317.6 | 270.1 | 228.8 | 199.0 | 183.4 | 175.8 | 171.8 | 171.5 | 167.9 |
| 70° | 249.8 | 279.5 | 265.4 | 223.3 | 188.9 | 166.8 | 153.7 | 147.2 | 145.0 | 144.7 | 142.8 |
| 72.5° | 207.0 | 225.5 | 215.0 | 181.6 | 157.0 | 137.4 | 128.7 | 121.8 | 119.3 | 120.0 | 118.9 |
| 75° | 159.5 | 175.1 | 168.6 | 144.3 | 122.9 | 109.8 | 101.9 | 97.5 | 95.3 | 96.4 | 95.0 |
| 77.5° | 121.8 | 132.7 | 126.2 | 107.7 | 93.9 | 84.1 | 77.9 | 75.0 | 72.9 | 72.9 | 72.1 |
| 80° | 86.6 | 92.4 | 89.2 | 79.0 | 68.2 | 60.2 | 55.5 | 53.7 | 52.6 | 52.2 | 51.8 |
| 82.5° | 55.5 | 60.2 | 56.2 | 50.0 | 43.5 | 39.5 | 37.3 | 34.8 | 34.1 | 34.4 | 34.1 |
| 85° | 31.2 | 33.0 | 31.5 | 27.2 | 24.3 | 22.1 | 20.7 | 19.6 | 18.9 | 19.2 | 18.5 |
| 87.5° | 13.4 | 13.8 | 12.7 | 11.2 | 10.5 | 9.4 | 9.4 | 8.7 | 8.0 | 8.0 | 7.6 |
| 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: P333926

CATALOG NUMBER: S123DW-S560D840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

| | 110° | 115° | 120° | 125° | 130° | 135° | 140° | 145° | 150° | 155° | 160° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 748.3 | 748.3 | 748.3 | 748.3 | 748.3 | 748.3 | 748.3 | 748.3 | 748.3 | 748.3 | 748.3 |
| 2.5° | 732.7 | 730.2 | 726.5 | 721.1 | 716.7 | 709.9 | 709.9 | 710.9 | 710.9 | 710.6 | 709.9 |
| 5° | 713.5 | 708.0 | 701.5 | 693.9 | 685.9 | 677.9 | 676.5 | 673.6 | 671.4 | 670.0 | 668.2 |
| 7.5° | 693.9 | 684.8 | 675.8 | 665.3 | 656.2 | 648.6 | 643.1 | 638.4 | 635.5 | 632.3 | 629.7 |
| 10° | 674.0 | 662.0 | 650.8 | 639.5 | 627.2 | 617.4 | 611.2 | 606.9 | 603.6 | 600.7 | 599.3 |
| 12.5° | 650.4 | 636.3 | 623.6 | 613.1 | 599.3 | 589.1 | 583.3 | 581.9 | 577.9 | 571.0 | 567.4 |
| 15° | 627.6 | 614.9 | 600.0 | 583.7 | 577.2 | 564.8 | 557.9 | 554.7 | 552.5 | 547.8 | 546.3 |
| 17.5° | 608.7 | 591.7 | 574.6 | 562.7 | 550.7 | 540.9 | 536.9 | 532.6 | 529.7 | 525.3 | 524.2 |
| 20° | 585.1 | 570.3 | 555.0 | 542.0 | 529.3 | 518.4 | 515.2 | 512.3 | 509.4 | 507.6 | 506.1 |
| 22.5° | 561.2 | 546.3 | 534.4 | 522.4 | 508.6 | 502.5 | 498.9 | 495.6 | 493.8 | 492.7 | 491.2 |
| 25° | 539.1 | 526.0 | 511.9 | 501.0 | 490.2 | 485.4 | 483.3 | 481.5 | 480.0 | 478.2 | 477.8 |
| 27.5° | 519.5 | 505.0 | 493.1 | 482.5 | 474.6 | 470.6 | 468.0 | 467.0 | 467.0 | 467.7 | 468.0 |
| 30° | 497.0 | 484.0 | 474.6 | 465.9 | 458.6 | 455.0 | 454.6 | 454.6 | 456.1 | 456.4 | 457.2 |
| 32.5° | 476.4 | 466.2 | 456.8 | 448.5 | 443.4 | 441.2 | 443.0 | 443.0 | 444.1 | 445.2 | 446.6 |
| 35° | 456.4 | 447.0 | 439.8 | 432.5 | 427.8 | 428.9 | 429.6 | 430.3 | 432.1 | 434.3 | 435.8 |
| 37.5° | 437.6 | 428.9 | 421.3 | 415.5 | 412.6 | 414.7 | 416.6 | 418.0 | 420.2 | 422.0 | 423.4 |
| 40° | 416.9 | 410.8 | 403.5 | 398.4 | 399.2 | 400.2 | 401.7 | 403.5 | 405.3 | 406.4 | 407.9 |
| 42.5° | 397.7 | 391.2 | 386.1 | 382.1 | 383.2 | 384.7 | 385.4 | 386.1 | 388.3 | 390.5 | 391.2 |
| 45° | 378.1 | 373.1 | 368.0 | 365.4 | 366.2 | 366.9 | 367.6 | 368.7 | 370.5 | 372.0 | 372.3 |
| 47.5° | 356.0 | 352.4 | 349.1 | 346.2 | 347.7 | 347.3 | 348.4 | 350.6 | 351.3 | 352.0 | 354.2 |
| 50° | 335.0 | 331.7 | 327.7 | 327.0 | 327.0 | 327.0 | 327.4 | 330.3 | 330.3 | 331.7 | 333.2 |
| 52.5° | 311.8 | 310.0 | 307.8 | 306.3 | 305.6 | 305.6 | 307.4 | 308.5 | 309.2 | 311.4 | 312.9 |
| 55° | 288.9 | 286.8 | 284.6 | 283.5 | 282.8 | 283.5 | 286.4 | 287.1 | 288.9 | 290.0 | 291.1 |
| 57.5° | 265.0 | 263.6 | 261.8 | 261.0 | 261.0 | 261.4 | 263.6 | 265.4 | 265.7 | 269.4 | 270.8 |
| 60° | 241.5 | 238.9 | 237.5 | 237.5 | 236.7 | 240.0 | 239.3 | 242.9 | 243.6 | 245.8 | 248.3 |
| 62.5° | 217.2 | 213.5 | 213.2 | 213.2 | 214.6 | 215.0 | 216.4 | 217.5 | 219.7 | 222.6 | 224.4 |
| 65° | 190.7 | 188.9 | 191.4 | 191.1 | 190.3 | 192.5 | 192.5 | 194.3 | 196.5 | 199.0 | 203.0 |
| 67.5° | 166.0 | 164.6 | 165.3 | 165.0 | 166.0 | 167.5 | 168.6 | 170.0 | 172.6 | 175.5 | 178.0 |
| 70° | 141.0 | 142.1 | 140.3 | 141.8 | 142.8 | 143.2 | 143.9 | 146.1 | 149.0 | 150.8 | 153.7 |
| 72.5° | 116.7 | 116.4 | 117.1 | 117.5 | 118.6 | 119.3 | 120.0 | 122.5 | 125.8 | 127.3 | 129.4 |
| 75° | 93.5 | 93.2 | 94.3 | 94.3 | 96.1 | 96.8 | 97.5 | 98.6 | 101.5 | 103.7 | 105.5 |
| 77.5° | 72.5 | 72.9 | 72.5 | 74.0 | 73.2 | 73.6 | 75.8 | 76.9 | 77.2 | 81.9 | 82.7 |
| 80° | 51.5 | 52.2 | 52.6 | 52.9 | 53.3 | 52.6 | 55.1 | 56.2 | 56.2 | 58.7 | 60.5 |
| 82.5° | 33.4 | 33.7 | 34.8 | 35.2 | 35.2 | 36.3 | 35.9 | 36.6 | 37.7 | 38.4 | 41.0 |
| 85° | 18.5 | 19.6 | 19.9 | 19.6 | 19.9 | 19.2 | 20.3 | 20.7 | 21.0 | 21.0 | 21.0 |
| 87.5° | 7.3 | 7.6 | 7.3 | 7.6 | 7.3 | 7.6 | 7.6 | 6.9 | 6.9 | 8.0 | 6.5 |
| 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: P333926

CATALOG NUMBER: S123DW-S560D840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

| | 165° | 170° | 175° | 180° |
|-------|-------|-------|-------|-------|
| 0° | 748.3 | 748.3 | 748.3 | 748.3 |
| 2.5° | 707.3 | 707.0 | 709.5 | 707.7 |
| 5° | 666.0 | 667.1 | 663.4 | 663.4 |
| 7.5° | 628.6 | 627.2 | 627.6 | 625.0 |
| 10° | 594.9 | 592.8 | 592.0 | 592.4 |
| 12.5° | 567.0 | 567.0 | 561.2 | 561.2 |
| 15° | 546.3 | 539.5 | 538.7 | 540.9 |
| 17.5° | 523.5 | 519.5 | 519.9 | 519.2 |
| 20° | 506.1 | 503.9 | 503.6 | 501.0 |
| 22.5° | 490.2 | 489.8 | 490.2 | 487.3 |
| 25° | 477.5 | 479.3 | 477.8 | 477.8 |
| 27.5° | 468.8 | 468.8 | 467.7 | 467.7 |
| 30° | 458.6 | 458.3 | 459.0 | 459.0 |
| 32.5° | 448.5 | 449.2 | 449.2 | 449.5 |
| 35° | 437.9 | 438.3 | 439.4 | 438.7 |
| 37.5° | 424.2 | 426.0 | 425.6 | 426.3 |
| 40° | 408.2 | 409.3 | 408.9 | 408.9 |
| 42.5° | 391.9 | 392.6 | 391.5 | 390.8 |
| 45° | 373.8 | 373.1 | 374.1 | 372.7 |
| 47.5° | 353.8 | 354.2 | 354.6 | 356.0 |
| 50° | 333.9 | 336.1 | 336.1 | 335.7 |
| 52.5° | 314.3 | 315.0 | 316.9 | 316.9 |
| 55° | 294.0 | 294.7 | 295.5 | 295.8 |
| 57.5° | 273.4 | 273.0 | 274.4 | 274.8 |
| 60° | 251.2 | 251.2 | 254.1 | 255.2 |
| 62.5° | 227.7 | 229.1 | 232.0 | 229.9 |
| 65° | 204.8 | 207.7 | 207.4 | 208.8 |
| 67.5° | 180.9 | 182.7 | 185.6 | 185.6 |
| 70° | 156.6 | 158.4 | 159.9 | 161.0 |
| 72.5° | 133.1 | 133.8 | 137.8 | 135.6 |
| 75° | 108.0 | 110.6 | 112.7 | 111.7 |
| 77.5° | 84.1 | 87.4 | 88.1 | 87.0 |
| 80° | 63.1 | 62.7 | 64.9 | 64.5 |
| 82.5° | 42.1 | 41.7 | 42.4 | 42.8 |
| 85° | 22.5 | 23.6 | 22.1 | 21.8 |
| 87.5° | 6.5 | 6.5 | 6.2 | 5.8 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)