

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: P332179-840

Luminaire Tested: **S123DIW-S775D1535U840-4F0-1E-UDD-F1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332179-840
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-S775D1535U840-4F0-1E-UDD-F1
Description: DEFINE 3 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 775 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
UPLIGHT 1535 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8576.8 lumens
Efficiency: N/A
Efficacy: 125.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.18 / 1.31
Luminous Opening: Rectangular (W 0.25' x L: 4' x H: 0')
CIE Type: Semi-Indirect

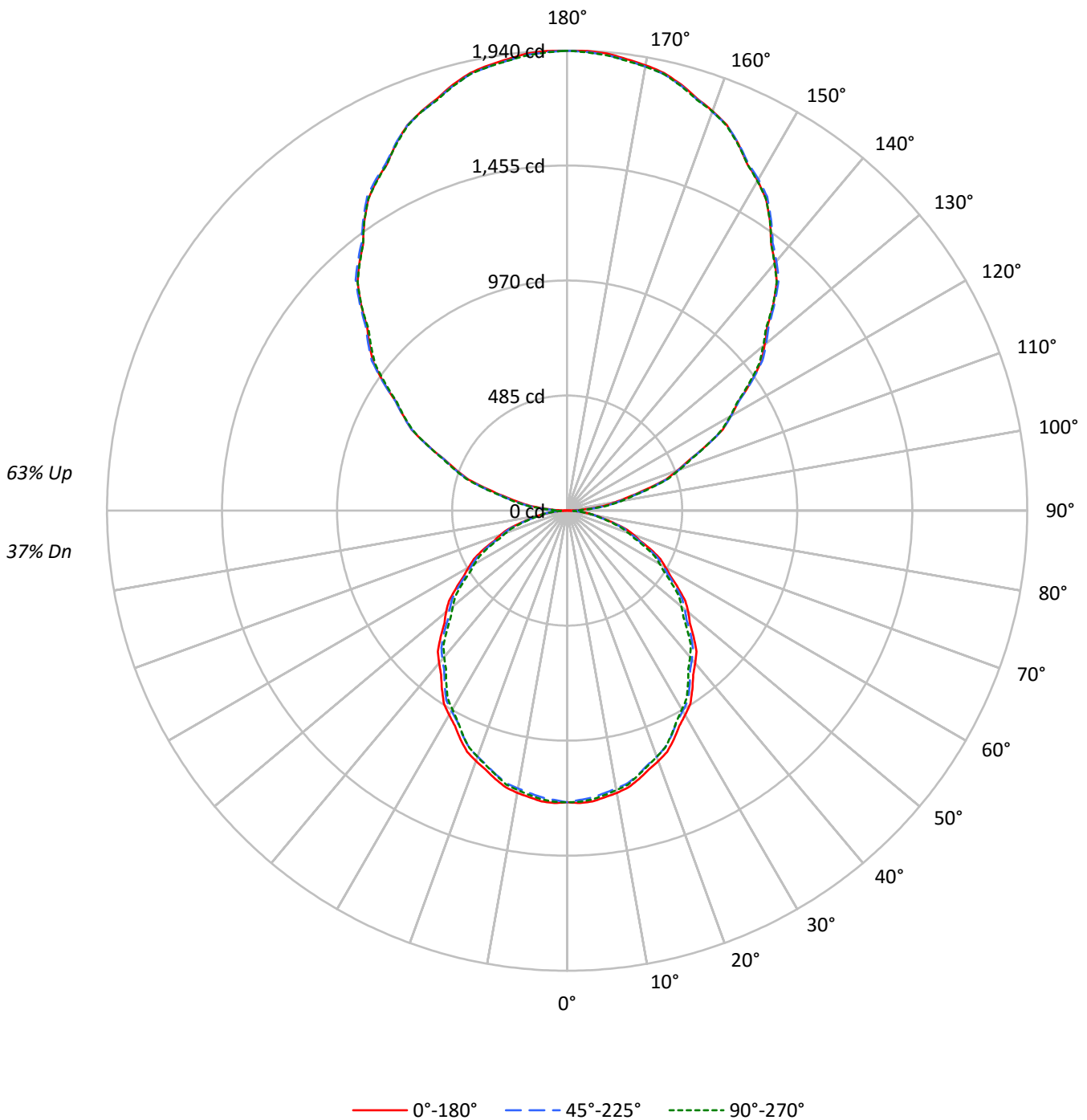
Input Watts (W): 68.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P332179-840

CATALOG NUMBER: S123DIW-S775D1535U840-4F0-1E-UDD-F1

Luminous Intensity Polar Plot





TEST NUMBER: P332179-840

CATALOG NUMBER: S123DIW-S775D1535U840-4F0-1E-UDD-F1

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 | 104 | 104 | 104 | 104 | 94 | 94 | 94 | 94 | 76 | 76 | 76 | 60 | 60 | 60 | 45 | 45 | 45 | 37 |
| 1 | 95 | 91 | 87 | 83 | 86 | 82 | 79 | 76 | 67 | 64 | 62 | 52 | 51 | 50 | 39 | 38 | 37 | 31 |
| 2 | 86 | 79 | 73 | 68 | 78 | 72 | 67 | 62 | 58 | 55 | 52 | 46 | 43 | 41 | 34 | 33 | 31 | 26 |
| 3 | 79 | 69 | 62 | 57 | 71 | 63 | 57 | 52 | 51 | 47 | 43 | 41 | 38 | 35 | 31 | 29 | 27 | 22 |
| 4 | 72 | 61 | 54 | 48 | 65 | 56 | 49 | 44 | 46 | 41 | 37 | 36 | 33 | 30 | 27 | 25 | 23 | 19 |
| 5 | 66 | 55 | 47 | 41 | 60 | 50 | 43 | 38 | 41 | 36 | 32 | 32 | 29 | 26 | 25 | 22 | 20 | 17 |
| 6 | 61 | 49 | 41 | 35 | 55 | 45 | 38 | 33 | 37 | 31 | 28 | 29 | 25 | 23 | 22 | 20 | 18 | 14 |
| 7 | 56 | 44 | 36 | 31 | 51 | 40 | 33 | 29 | 33 | 28 | 24 | 27 | 23 | 20 | 20 | 18 | 16 | 13 |
| 8 | 52 | 40 | 32 | 27 | 47 | 37 | 30 | 25 | 30 | 25 | 21 | 24 | 20 | 18 | 19 | 16 | 14 | 11 |
| 9 | 48 | 36 | 29 | 24 | 44 | 33 | 27 | 22 | 28 | 23 | 19 | 22 | 19 | 16 | 17 | 15 | 13 | 10 |
| 10 | 45 | 33 | 26 | 21 | 41 | 31 | 24 | 20 | 25 | 20 | 17 | 21 | 17 | 14 | 16 | 13 | 11 | 9 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 13237 | 13237 | 13237 |
| 5° | 13299 | 13116 | 13207 |
| 10° | 13210 | 13002 | 13083 |
| 15° | 13056 | 12856 | 12880 |
| 20° | 12875 | 12645 | 12657 |
| 25° | 12634 | 12396 | 12371 |
| 30° | 12367 | 12117 | 12026 |
| 35° | 12089 | 11825 | 11671 |
| 40° | 11797 | 11500 | 11323 |
| 45° | 11478 | 11204 | 10930 |
| 50° | 11156 | 10836 | 10535 |
| 55° | 10736 | 10457 | 10141 |
| 60° | 10312 | 10015 | 9698 |
| 65° | 9938 | 9536 | 9235 |
| 70° | 9385 | 8985 | 8585 |
| 75° | 8576 | 8268 | 7918 |
| 80° | 7736 | 7407 | 7345 |
| 85° | 6780 | 6533 | 6274 |



TEST NUMBER: P332179-840

CATALOG NUMBER: S123DIW-S775D1535U840-4F0-1E-UDD-F1

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 115.8 | 1.4 |
| 10°-20° | 327.1 | 3.8 |
| 20°-30° | 483.2 | 5.6 |
| 30°-40° | 564.4 | 6.6 |
| 40°-50° | 567.4 | 6.6 |
| 50°-60° | 498.4 | 5.8 |
| 60°-70° | 371.3 | 4.3 |
| 70°-80° | 211.6 | 2.5 |
| 80°-90° | 66.5 | 0.8 |
| 90°-100° | 126.3 | 1.5 |
| 100°-110° | 378.0 | 4.4 |
| 110°-120° | 642.9 | 7.5 |
| 120°-130° | 845.6 | 9.9 |
| 130°-140° | 950.5 | 11.1 |
| 140°-150° | 934.3 | 10.9 |
| 150°-160° | 786.5 | 9.2 |
| 160°-170° | 523.6 | 6.1 |
| 170°-180° | 183.3 | 2.1 |
| 0°-30° | 926.1 | 10.8 |
| 0°-40° | 1490.5 | 17.4 |
| 0°-60° | 2556.3 | 29.8 |
| 0°-90° | 3205.7 | 37.4 |
| 90°-120° | 1147.2 | 13.4 |
| 90°-150° | 3877.6 | 45.2 |
| 90°-180° | 5371.0 | 62.6 |
| 0°-180° | 8576.8 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 1230 | 1230 | 1230 | 1230 | 1230 | |
| 5° | 1231 | 1225 | 1214 | 1224 | 1222 | 117 |
| 15° | 1172 | 1167 | 1154 | 1161 | 1156 | 330 |
| 25° | 1064 | 1057 | 1044 | 1044 | 1042 | 490 |
| 35° | 920 | 913 | 900 | 894 | 888 | 575 |
| 45° | 754 | 749 | 736 | 724 | 718 | 582 |
| 55° | 572 | 570 | 557 | 546 | 540 | 512 |
| 65° | 390 | 385 | 374 | 366 | 363 | 385 |
| 75° | 206 | 202 | 199 | 194 | 190 | 221 |
| 85° | 55 | 53 | 53 | 51 | 51 | 60 |
| 90° | 2 | 17 | 37 | 42 | 46 | 9 |
| 95° | 90 | 101 | 113 | 118 | 119 | 101 |
| 105° | 343 | 346 | 359 | 360 | 362 | 367 |
| 115° | 647 | 651 | 649 | 650 | 649 | 640 |
| 125° | 947 | 951 | 949 | 943 | 936 | 844 |
| 135° | 1229 | 1238 | 1237 | 1231 | 1227 | 947 |
| 145° | 1491 | 1494 | 1498 | 1497 | 1491 | 931 |
| 155° | 1707 | 1707 | 1709 | 1714 | 1704 | 785 |
| 165° | 1859 | 1855 | 1855 | 1863 | 1853 | 524 |
| 175° | 1934 | 1928 | 1928 | 1936 | 1926 | 184 |
| 180° | 1938 | 1938 | 1938 | 1938 | 1938 | |



TEST NUMBER: P332179-840

CATALOG NUMBER: S123DIW-S775D1535U840-4F0-1E-UDD-F1

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1229.8 | 1229.8 | 1229.8 | 1229.8 | 1229.8 | 1229.8 | 1229.8 | 1229.8 | 1229.8 | 1229.8 | 1229.8 |
| 2.5° | 1234.0 | 1233.2 | 1232.5 | 1231.7 | 1231.0 | 1229.6 | 1227.5 | 1225.5 | 1223.4 | 1221.3 | 1223.1 |
| 5° | 1230.8 | 1229.6 | 1228.5 | 1227.3 | 1226.1 | 1224.3 | 1221.6 | 1219.1 | 1216.5 | 1213.9 | 1216.3 |
| 7.5° | 1218.8 | 1217.6 | 1216.4 | 1215.3 | 1214.1 | 1212.1 | 1209.4 | 1206.8 | 1204.1 | 1201.4 | 1203.6 |
| 10° | 1208.6 | 1207.4 | 1206.3 | 1205.1 | 1204.0 | 1201.8 | 1198.7 | 1195.7 | 1192.7 | 1189.6 | 1191.7 |
| 12.5° | 1195.1 | 1194.1 | 1193.2 | 1192.1 | 1191.1 | 1189.2 | 1186.4 | 1183.5 | 1180.6 | 1177.7 | 1179.3 |
| 15° | 1171.6 | 1170.6 | 1169.7 | 1168.8 | 1167.8 | 1165.9 | 1162.8 | 1159.7 | 1156.7 | 1153.7 | 1155.5 |
| 17.5° | 1144.3 | 1143.1 | 1141.9 | 1140.6 | 1139.4 | 1137.3 | 1134.3 | 1131.1 | 1128.1 | 1125.1 | 1126.4 |
| 20° | 1124.0 | 1122.6 | 1121.3 | 1119.8 | 1118.4 | 1116.1 | 1113.1 | 1110.0 | 1107.0 | 1103.9 | 1104.9 |
| 22.5° | 1101.2 | 1099.7 | 1098.3 | 1096.9 | 1095.5 | 1093.3 | 1090.3 | 1087.2 | 1084.2 | 1081.1 | 1081.9 |
| 25° | 1063.8 | 1062.4 | 1061.0 | 1059.6 | 1058.1 | 1055.9 | 1052.8 | 1049.8 | 1046.7 | 1043.7 | 1043.9 |
| 27.5° | 1023.8 | 1022.4 | 1021.1 | 1019.7 | 1018.3 | 1016.0 | 1012.7 | 1009.5 | 1006.1 | 1002.8 | 1003.0 |
| 30° | 995.0 | 993.8 | 992.7 | 991.5 | 990.3 | 988.1 | 984.8 | 981.5 | 978.3 | 974.9 | 974.9 |
| 32.5° | 966.2 | 964.7 | 963.1 | 961.6 | 960.1 | 958.1 | 955.4 | 952.9 | 950.4 | 947.9 | 946.5 |
| 35° | 920.0 | 918.6 | 917.2 | 915.7 | 914.3 | 912.1 | 909.0 | 905.9 | 902.9 | 899.9 | 898.5 |
| 37.5° | 872.5 | 870.8 | 869.0 | 867.2 | 865.5 | 863.0 | 859.9 | 856.8 | 853.6 | 850.6 | 848.9 |
| 40° | 839.6 | 838.2 | 836.8 | 835.4 | 833.9 | 831.6 | 828.3 | 825.1 | 821.7 | 818.4 | 816.6 |
| 42.5° | 806.6 | 805.0 | 803.3 | 801.8 | 800.2 | 797.8 | 794.5 | 791.1 | 787.9 | 784.6 | 782.7 |
| 45° | 754.0 | 753.0 | 752.0 | 751.1 | 750.1 | 748.2 | 745.1 | 742.0 | 739.0 | 736.0 | 733.2 |
| 47.5° | 701.7 | 700.3 | 698.9 | 697.6 | 696.2 | 694.1 | 691.3 | 688.4 | 685.5 | 682.7 | 679.8 |
| 50° | 666.2 | 665.0 | 663.8 | 662.7 | 661.5 | 659.3 | 656.3 | 653.3 | 650.2 | 647.1 | 644.6 |
| 52.5° | 628.9 | 628.1 | 627.3 | 626.5 | 625.7 | 623.7 | 620.5 | 617.2 | 614.0 | 610.8 | 608.5 |
| 55° | 572.1 | 571.8 | 571.6 | 571.4 | 571.1 | 569.5 | 566.4 | 563.4 | 560.3 | 557.2 | 554.7 |
| 57.5° | 518.0 | 517.2 | 516.3 | 515.5 | 514.7 | 513.1 | 510.7 | 508.2 | 505.7 | 503.3 | 501.0 |
| 60° | 479.0 | 478.8 | 478.6 | 478.3 | 478.1 | 476.6 | 473.7 | 470.9 | 468.1 | 465.2 | 463.1 |
| 62.5° | 444.3 | 443.7 | 443.1 | 442.5 | 441.9 | 440.2 | 437.4 | 434.5 | 431.7 | 428.9 | 426.8 |
| 65° | 390.2 | 389.0 | 387.8 | 386.7 | 385.5 | 383.7 | 381.3 | 379.0 | 376.7 | 374.4 | 372.4 |
| 67.5° | 332.9 | 331.8 | 330.8 | 329.7 | 328.7 | 327.3 | 325.6 | 323.8 | 321.9 | 320.2 | 318.5 |
| 70° | 298.2 | 296.8 | 295.4 | 294.0 | 292.6 | 291.1 | 289.7 | 288.3 | 286.9 | 285.5 | 283.9 |
| 72.5° | 261.9 | 260.7 | 259.7 | 258.7 | 257.7 | 256.4 | 254.8 | 253.2 | 251.6 | 249.9 | 248.5 |
| 75° | 206.2 | 205.2 | 204.3 | 203.4 | 202.5 | 201.6 | 200.9 | 200.2 | 199.4 | 198.8 | 197.6 |
| 77.5° | 156.9 | 156.4 | 155.9 | 155.4 | 154.8 | 154.2 | 153.3 | 152.5 | 151.7 | 150.8 | 150.0 |
| 80° | 124.8 | 124.1 | 123.4 | 122.7 | 122.0 | 121.4 | 120.9 | 120.5 | 120.0 | 119.5 | 119.3 |
| 82.5° | 93.5 | 93.3 | 93.2 | 93.0 | 92.9 | 92.8 | 92.7 | 92.6 | 92.5 | 92.4 | 92.0 |
| 85° | 54.9 | 54.5 | 54.0 | 53.6 | 53.1 | 52.9 | 52.9 | 52.9 | 52.9 | 52.9 | 52.4 |
| 87.5° | 22.3 | 22.4 | 22.5 | 22.6 | 22.7 | 23.1 | 23.8 | 24.5 | 25.2 | 26.0 | 26.0 |
| 90° | 1.5 | 4.9 | 8.3 | 11.7 | 15.0 | 19.0 | 23.3 | 27.8 | 32.1 | 36.6 | 37.9 |
| 92.5° | 36.9 | 39.2 | 41.4 | 43.7 | 46.0 | 48.5 | 51.0 | 53.4 | 55.9 | 58.5 | 59.6 |
| 95° | 89.9 | 92.2 | 94.6 | 96.9 | 99.4 | 101.9 | 104.5 | 107.2 | 110.0 | 112.7 | 114.0 |
| 97.5° | 159.6 | 161.4 | 163.1 | 164.9 | 166.6 | 168.4 | 170.5 | 172.4 | 174.4 | 176.3 | 177.9 |
| 100° | 207.1 | 209.1 | 211.2 | 213.2 | 215.2 | 217.1 | 218.7 | 220.5 | 222.2 | 223.9 | 224.9 |
| 102.5° | 262.0 | 263.2 | 264.4 | 265.6 | 266.8 | 268.5 | 270.7 | 273.0 | 275.2 | 277.4 | 278.5 |
| 105° | 342.6 | 343.4 | 344.0 | 344.7 | 345.4 | 347.2 | 350.2 | 353.3 | 356.4 | 359.4 | 359.4 |
| 107.5° | 436.5 | 436.9 | 437.3 | 437.7 | 438.1 | 438.9 | 440.1 | 441.3 | 442.5 | 443.7 | 444.8 |
| 110° | 494.9 | 495.6 | 496.2 | 497.0 | 497.7 | 498.3 | 499.0 | 499.7 | 500.3 | 501.0 | 502.4 |



TEST NUMBER: P332179-840

CATALOG NUMBER: S123DIW-S775D1535U840-4F0-1E-UDD-F1

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 555.8 | 556.2 | 556.6 | 557.0 | 557.4 | 557.7 | 557.8 | 558.0 | 558.2 | 558.3 | 559.9 |
| 115° | 647.2 | 648.2 | 649.2 | 650.3 | 651.3 | 651.5 | 650.8 | 650.1 | 649.4 | 648.7 | 649.0 |
| 117.5° | 739.2 | 739.8 | 740.5 | 741.2 | 741.8 | 741.7 | 740.9 | 740.0 | 739.1 | 738.3 | 738.2 |
| 120° | 796.5 | 798.5 | 800.5 | 802.5 | 804.6 | 804.8 | 803.0 | 801.3 | 799.6 | 798.0 | 797.6 |
| 122.5° | 856.2 | 857.6 | 859.1 | 860.6 | 862.1 | 862.4 | 861.5 | 860.6 | 859.8 | 858.9 | 858.0 |
| 125° | 947.2 | 948.2 | 949.3 | 950.3 | 951.3 | 951.4 | 950.8 | 950.1 | 949.4 | 948.8 | 947.4 |
| 127.5° | 1031.3 | 1033.4 | 1035.6 | 1037.7 | 1040.0 | 1040.7 | 1039.9 | 1039.2 | 1038.4 | 1037.6 | 1035.7 |
| 130° | 1087.3 | 1090.0 | 1092.7 | 1095.4 | 1098.1 | 1098.9 | 1097.9 | 1096.9 | 1095.9 | 1094.9 | 1093.6 |
| 132.5° | 1143.4 | 1146.0 | 1148.7 | 1151.4 | 1154.2 | 1155.2 | 1154.4 | 1153.7 | 1152.9 | 1152.2 | 1150.5 |
| 135° | 1228.9 | 1230.9 | 1232.9 | 1235.0 | 1237.1 | 1237.9 | 1237.6 | 1237.2 | 1236.9 | 1236.6 | 1235.2 |
| 137.5° | 1308.1 | 1309.8 | 1311.5 | 1313.2 | 1314.8 | 1316.2 | 1317.1 | 1317.9 | 1318.8 | 1319.7 | 1318.3 |
| 140° | 1362.9 | 1364.6 | 1366.3 | 1368.0 | 1369.7 | 1370.7 | 1371.1 | 1371.4 | 1371.7 | 1372.1 | 1371.7 |
| 142.5° | 1412.9 | 1414.5 | 1416.2 | 1418.0 | 1419.7 | 1420.8 | 1421.4 | 1422.0 | 1422.6 | 1423.2 | 1422.9 |
| 145° | 1490.9 | 1491.6 | 1492.2 | 1492.9 | 1493.6 | 1494.4 | 1495.4 | 1496.4 | 1497.4 | 1498.4 | 1498.1 |
| 147.5° | 1559.0 | 1560.2 | 1561.5 | 1562.8 | 1564.0 | 1565.0 | 1566.0 | 1566.9 | 1567.8 | 1568.8 | 1568.8 |
| 150° | 1606.6 | 1607.3 | 1607.9 | 1608.6 | 1609.3 | 1609.9 | 1610.6 | 1611.3 | 1611.9 | 1612.7 | 1612.7 |
| 152.5° | 1645.6 | 1646.5 | 1647.5 | 1648.4 | 1649.3 | 1650.0 | 1650.4 | 1650.8 | 1651.2 | 1651.6 | 1652.2 |
| 155° | 1707.1 | 1707.1 | 1707.1 | 1707.1 | 1707.1 | 1707.3 | 1707.6 | 1707.9 | 1708.3 | 1708.6 | 1710.0 |
| 157.5° | 1759.5 | 1759.1 | 1758.7 | 1758.3 | 1757.9 | 1757.8 | 1758.1 | 1758.3 | 1758.6 | 1758.9 | 1760.3 |
| 160° | 1792.4 | 1791.7 | 1791.0 | 1790.3 | 1789.7 | 1789.3 | 1789.3 | 1789.3 | 1789.3 | 1789.3 | 1791.0 |
| 162.5° | 1821.6 | 1820.7 | 1819.7 | 1818.8 | 1817.9 | 1817.5 | 1817.8 | 1818.1 | 1818.3 | 1818.6 | 1820.3 |
| 165° | 1859.4 | 1858.4 | 1857.3 | 1856.3 | 1855.3 | 1854.8 | 1854.8 | 1854.8 | 1854.8 | 1854.8 | 1856.8 |
| 167.5° | 1889.6 | 1888.1 | 1886.8 | 1885.4 | 1884.1 | 1883.6 | 1883.8 | 1884.1 | 1884.4 | 1884.6 | 1886.7 |
| 170° | 1906.5 | 1905.2 | 1903.9 | 1902.5 | 1901.2 | 1900.5 | 1900.5 | 1900.5 | 1900.5 | 1900.5 | 1902.9 |
| 172.5° | 1920.0 | 1918.6 | 1917.2 | 1915.9 | 1914.6 | 1913.9 | 1913.9 | 1913.9 | 1913.9 | 1913.9 | 1916.0 |
| 175° | 1934.0 | 1932.7 | 1931.3 | 1930.0 | 1928.5 | 1927.9 | 1927.9 | 1927.9 | 1927.9 | 1927.9 | 1930.0 |
| 177.5° | 1939.7 | 1938.7 | 1937.6 | 1936.5 | 1935.4 | 1934.9 | 1934.9 | 1934.9 | 1934.9 | 1934.9 | 1936.5 |
| 180° | 1938.5 | 1938.5 | 1938.5 | 1938.5 | 1938.5 | 1938.5 | 1938.5 | 1938.5 | 1938.5 | 1938.5 | 1938.5 |



TEST NUMBER: P332179-840

CATALOG NUMBER: S123DIW-S775D1535U840-4F0-1E-UDD-F1

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1229.8 | 1229.8 | 1229.8 | 1229.8 | 1229.8 | 1229.8 | 1229.8 | 1229.8 |
| 2.5° | 1225.1 | 1227.0 | 1228.8 | 1229.7 | 1229.5 | 1229.3 | 1229.1 | 1228.9 |
| 5° | 1218.6 | 1220.9 | 1223.4 | 1224.3 | 1223.8 | 1223.4 | 1222.8 | 1222.3 |
| 7.5° | 1205.7 | 1207.8 | 1209.9 | 1210.8 | 1210.5 | 1210.2 | 1209.9 | 1209.7 |
| 10° | 1193.9 | 1195.9 | 1198.0 | 1198.9 | 1198.4 | 1197.9 | 1197.5 | 1197.0 |
| 12.5° | 1180.8 | 1182.3 | 1184.0 | 1184.6 | 1184.3 | 1184.0 | 1183.8 | 1183.5 |
| 15° | 1157.4 | 1159.2 | 1161.1 | 1161.3 | 1159.9 | 1158.5 | 1157.2 | 1155.8 |
| 17.5° | 1127.7 | 1129.0 | 1130.3 | 1130.7 | 1130.2 | 1129.7 | 1129.2 | 1128.7 |
| 20° | 1105.8 | 1106.7 | 1107.7 | 1107.8 | 1107.1 | 1106.4 | 1105.7 | 1105.0 |
| 22.5° | 1082.6 | 1083.4 | 1084.1 | 1084.0 | 1083.2 | 1082.3 | 1081.4 | 1080.5 |
| 25° | 1044.1 | 1044.4 | 1044.6 | 1044.4 | 1043.7 | 1043.0 | 1042.3 | 1041.6 |
| 27.5° | 1003.2 | 1003.4 | 1003.6 | 1003.2 | 1002.4 | 1001.5 | 1000.6 | 999.7 |
| 30° | 974.9 | 974.9 | 974.9 | 974.1 | 972.5 | 970.8 | 969.2 | 967.6 |
| 32.5° | 945.2 | 943.9 | 942.6 | 941.5 | 940.6 | 939.7 | 938.8 | 938.0 |
| 35° | 897.1 | 895.6 | 894.2 | 892.9 | 891.7 | 890.6 | 889.4 | 888.2 |
| 37.5° | 847.2 | 845.5 | 843.8 | 842.6 | 841.8 | 841.1 | 840.3 | 839.6 |
| 40° | 814.7 | 812.8 | 810.9 | 809.5 | 808.6 | 807.6 | 806.7 | 805.8 |
| 42.5° | 780.8 | 778.9 | 777.1 | 775.7 | 774.8 | 773.8 | 772.8 | 771.9 |
| 45° | 730.3 | 727.5 | 724.7 | 722.7 | 721.5 | 720.3 | 719.1 | 718.0 |
| 47.5° | 677.1 | 674.4 | 671.6 | 669.6 | 668.6 | 667.6 | 666.6 | 665.5 |
| 50° | 642.0 | 639.3 | 636.8 | 634.8 | 633.4 | 632.0 | 630.6 | 629.1 |
| 52.5° | 606.3 | 604.1 | 601.9 | 600.2 | 598.7 | 597.3 | 595.9 | 594.5 |
| 55° | 552.1 | 549.5 | 546.9 | 545.0 | 543.8 | 542.7 | 541.5 | 540.4 |
| 57.5° | 498.7 | 496.4 | 494.1 | 492.3 | 490.9 | 489.6 | 488.2 | 486.9 |
| 60° | 461.0 | 458.9 | 456.8 | 455.1 | 453.9 | 452.8 | 451.6 | 450.5 |
| 62.5° | 424.6 | 422.5 | 420.4 | 419.0 | 418.2 | 417.4 | 416.6 | 415.8 |
| 65° | 370.5 | 368.7 | 366.8 | 365.5 | 364.8 | 364.1 | 363.3 | 362.6 |
| 67.5° | 316.9 | 315.3 | 313.6 | 312.3 | 311.3 | 310.3 | 309.3 | 308.3 |
| 70° | 282.3 | 280.5 | 278.9 | 277.5 | 276.3 | 275.2 | 274.0 | 272.8 |
| 72.5° | 247.0 | 245.6 | 244.2 | 243.1 | 242.5 | 241.9 | 241.3 | 240.7 |
| 75° | 196.4 | 195.3 | 194.1 | 193.2 | 192.5 | 191.8 | 191.1 | 190.4 |
| 77.5° | 149.2 | 148.3 | 147.5 | 147.2 | 147.2 | 147.2 | 147.2 | 147.2 |
| 80° | 119.1 | 118.8 | 118.6 | 118.5 | 118.5 | 118.5 | 118.5 | 118.5 |
| 82.5° | 91.6 | 91.2 | 90.7 | 90.4 | 90.3 | 90.1 | 89.9 | 89.7 |
| 85° | 51.9 | 51.5 | 51.0 | 50.8 | 50.8 | 50.8 | 50.8 | 50.8 |
| 87.5° | 26.1 | 26.2 | 26.3 | 26.4 | 26.5 | 26.7 | 26.8 | 26.9 |
| 90° | 39.3 | 40.6 | 42.0 | 43.0 | 43.6 | 44.3 | 45.0 | 45.6 |
| 92.5° | 60.6 | 61.7 | 62.8 | 63.1 | 62.7 | 62.3 | 61.9 | 61.5 |
| 95° | 115.4 | 116.7 | 118.1 | 118.8 | 118.8 | 118.8 | 118.8 | 118.8 |
| 97.5° | 179.5 | 181.0 | 182.6 | 183.3 | 183.2 | 183.0 | 182.9 | 182.8 |
| 100° | 225.9 | 226.9 | 227.9 | 228.7 | 229.4 | 230.1 | 230.8 | 231.5 |
| 102.5° | 279.5 | 280.5 | 281.6 | 282.0 | 281.9 | 281.7 | 281.6 | 281.4 |
| 105° | 359.4 | 359.4 | 359.4 | 359.7 | 360.4 | 361.1 | 361.7 | 362.4 |
| 107.5° | 446.0 | 447.0 | 448.1 | 448.4 | 448.0 | 447.6 | 447.2 | 446.8 |
| 110° | 503.7 | 505.0 | 506.4 | 506.8 | 506.0 | 505.4 | 504.7 | 504.0 |



TEST NUMBER: P332179-840

CATALOG NUMBER: S123DIW-S775D1535U840-4F0-1E-UDD-F1

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 561.5 | 563.1 | 564.7 | 565.5 | 565.4 | 565.2 | 565.1 | 564.9 |
| 115° | 649.4 | 649.7 | 650.1 | 650.1 | 649.7 | 649.4 | 649.0 | 648.7 |
| 117.5° | 738.1 | 738.1 | 738.0 | 737.5 | 736.5 | 735.6 | 734.7 | 733.7 |
| 120° | 797.3 | 797.0 | 796.6 | 796.1 | 795.5 | 794.8 | 794.1 | 793.3 |
| 122.5° | 857.1 | 856.3 | 855.4 | 854.4 | 853.5 | 852.5 | 851.6 | 850.6 |
| 125° | 946.0 | 944.6 | 943.3 | 941.9 | 940.6 | 939.3 | 937.9 | 936.5 |
| 127.5° | 1033.9 | 1032.0 | 1030.1 | 1028.3 | 1026.8 | 1025.2 | 1023.7 | 1022.1 |
| 130° | 1092.2 | 1090.9 | 1089.5 | 1087.6 | 1085.3 | 1082.9 | 1080.6 | 1078.1 |
| 132.5° | 1148.9 | 1147.3 | 1145.7 | 1144.0 | 1142.2 | 1140.3 | 1138.4 | 1136.6 |
| 135° | 1233.9 | 1232.4 | 1231.1 | 1230.1 | 1229.4 | 1228.7 | 1228.1 | 1227.4 |
| 137.5° | 1316.9 | 1315.5 | 1314.0 | 1312.6 | 1311.3 | 1310.1 | 1308.8 | 1307.5 |
| 140° | 1371.4 | 1371.1 | 1370.7 | 1369.4 | 1367.0 | 1364.6 | 1362.2 | 1359.9 |
| 142.5° | 1422.6 | 1422.2 | 1421.9 | 1420.8 | 1419.0 | 1417.1 | 1415.3 | 1413.5 |
| 145° | 1497.7 | 1497.4 | 1497.1 | 1496.2 | 1494.9 | 1493.6 | 1492.2 | 1490.9 |
| 147.5° | 1568.8 | 1568.8 | 1568.8 | 1567.8 | 1565.8 | 1563.8 | 1561.7 | 1559.6 |
| 150° | 1612.7 | 1612.7 | 1612.7 | 1611.6 | 1609.6 | 1607.6 | 1605.6 | 1603.6 |
| 152.5° | 1652.7 | 1653.3 | 1653.9 | 1653.3 | 1651.4 | 1649.7 | 1647.9 | 1646.2 |
| 155° | 1711.3 | 1712.6 | 1714.0 | 1713.5 | 1711.1 | 1708.8 | 1706.4 | 1704.0 |
| 157.5° | 1761.7 | 1763.1 | 1764.5 | 1764.3 | 1762.4 | 1760.5 | 1758.6 | 1756.8 |
| 160° | 1792.7 | 1794.4 | 1796.0 | 1796.2 | 1794.9 | 1793.5 | 1792.2 | 1790.8 |
| 162.5° | 1821.9 | 1823.6 | 1825.3 | 1825.1 | 1822.9 | 1820.8 | 1818.6 | 1816.4 |
| 165° | 1858.9 | 1860.9 | 1862.9 | 1862.8 | 1860.4 | 1858.1 | 1855.6 | 1853.3 |
| 167.5° | 1888.9 | 1891.0 | 1893.0 | 1893.0 | 1891.0 | 1888.9 | 1886.7 | 1884.6 |
| 170° | 1905.2 | 1907.6 | 1910.0 | 1910.0 | 1907.6 | 1905.2 | 1902.9 | 1900.5 |
| 172.5° | 1918.0 | 1920.2 | 1922.3 | 1922.2 | 1919.8 | 1917.4 | 1915.0 | 1912.7 |
| 175° | 1932.0 | 1934.0 | 1936.0 | 1935.8 | 1933.5 | 1931.1 | 1928.7 | 1926.4 |
| 177.5° | 1938.1 | 1939.7 | 1941.4 | 1941.3 | 1939.3 | 1937.4 | 1935.6 | 1933.7 |
| 180° | 1938.5 | 1938.5 | 1938.5 | 1938.5 | 1938.5 | 1938.5 | 1938.5 | 1938.5 |

(END OF REPORT)