

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: P332861

Luminaire Tested: **S124DIW-S1195D1560U835-4F0-1E-UDD-D**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332861
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-6,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S124DIW-S1195D1560U835-4F0-1E-UDD-D
Description: DEFINE 4 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 1195 LUMENS PER FOOT, DROP SATIN WHITE DIFFUSER
UPLIGHT 1560 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11103.6 lumens
Efficiency: N/A
Efficacy: 133.9 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.08')
CIE Type: General Diffuse

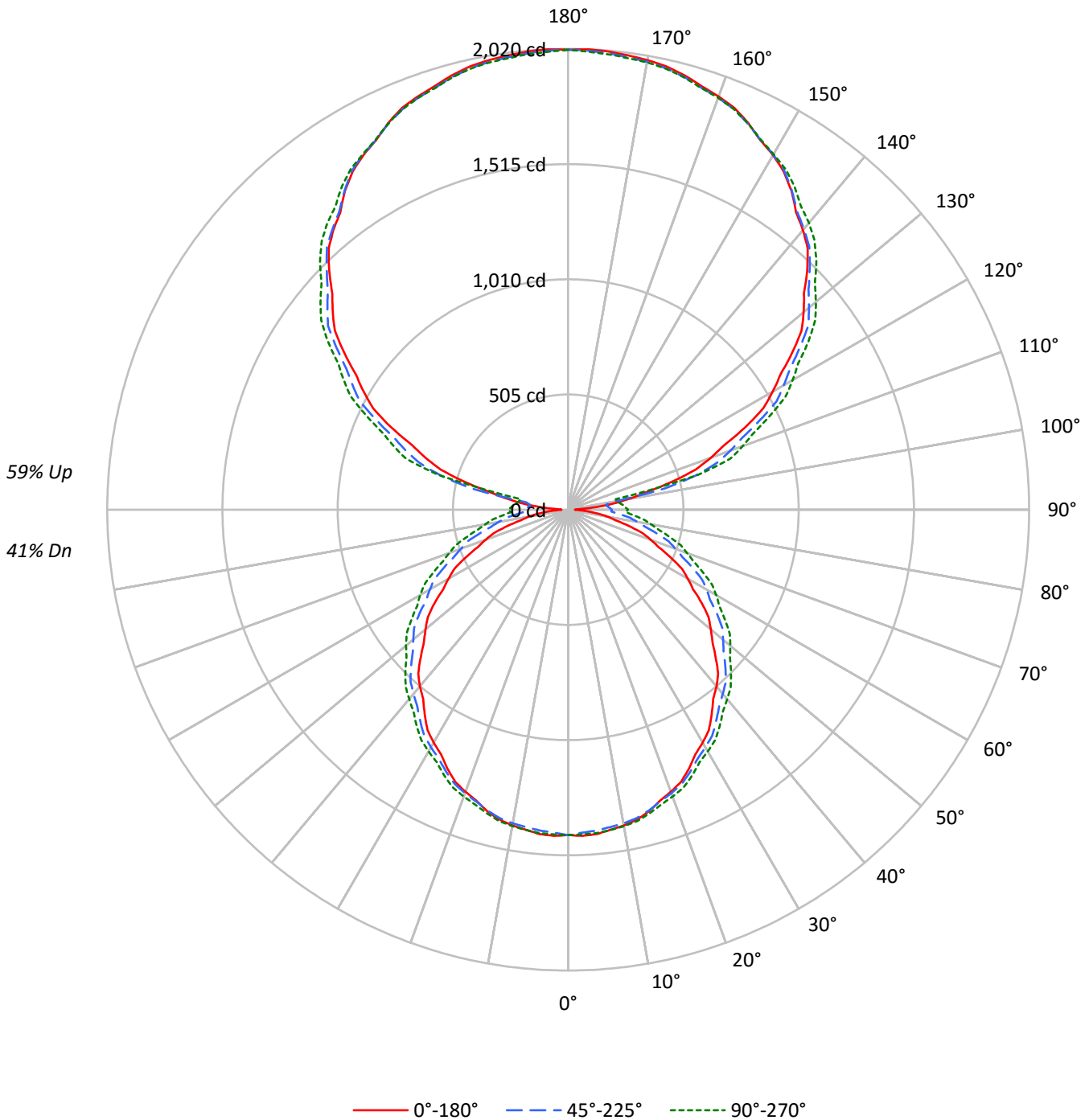
Input Watts (W): 82.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P332861

CATALOG NUMBER: S124DIW-S1195D1560U835-4F0-1E-UDD-D

Luminous Intensity Polar Plot





TEST NUMBER: P332861

CATALOG NUMBER: S124DIW-S1195D1560U835-4F0-1E-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 | 50 | 30 | 10 | 0 | |
| RCR | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 105 | 105 | 105 | 105 | 96 | 96 | 96 | 96 | 78 | 78 | 78 | 62 | 62 | 62 | 47 | 47 | 47 | 41 | | | | 41 |
| 1 | 95 | 90 | 86 | 82 | 86 | 82 | 79 | 75 | 67 | 65 | 62 | 53 | 52 | 50 | 41 | 39 | 38 | | | | 32 | |
| 2 | 86 | 78 | 72 | 67 | 78 | 71 | 66 | 61 | 58 | 54 | 51 | 46 | 43 | 41 | 35 | 33 | 32 | | | | 26 | |
| 3 | 78 | 68 | 61 | 55 | 71 | 62 | 56 | 51 | 51 | 46 | 42 | 41 | 37 | 34 | 31 | 29 | 27 | | | | 22 | |
| 4 | 71 | 60 | 52 | 46 | 65 | 55 | 48 | 43 | 45 | 40 | 36 | 36 | 32 | 29 | 27 | 25 | 23 | | | | 19 | |
| 5 | 65 | 54 | 45 | 39 | 59 | 49 | 42 | 36 | 40 | 35 | 31 | 32 | 28 | 25 | 25 | 22 | 20 | | | | 16 | |
| 6 | 60 | 48 | 40 | 34 | 54 | 44 | 37 | 31 | 36 | 31 | 27 | 29 | 25 | 22 | 22 | 19 | 17 | | | | 14 | |
| 7 | 55 | 43 | 35 | 29 | 50 | 39 | 32 | 27 | 33 | 27 | 23 | 26 | 22 | 19 | 20 | 17 | 15 | | | | 12 | |
| 8 | 51 | 39 | 31 | 26 | 47 | 36 | 29 | 24 | 30 | 24 | 20 | 24 | 20 | 17 | 19 | 16 | 13 | | | | 11 | |
| 9 | 48 | 36 | 28 | 23 | 43 | 33 | 26 | 21 | 27 | 22 | 18 | 22 | 18 | 15 | 17 | 14 | 12 | | | | 10 | |
| 10 | 45 | 32 | 25 | 20 | 40 | 30 | 23 | 19 | 25 | 20 | 16 | 20 | 16 | 14 | 16 | 13 | 11 | | | | 9 | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 11512 | 11512 | 11512 |
| 5° | 11547 | 11251 | 11283 |
| 10° | 11477 | 11067 | 11058 |
| 15° | 11374 | 10854 | 10794 |
| 20° | 11219 | 10619 | 10537 |
| 25° | 11044 | 10355 | 10254 |
| 30° | 10854 | 10093 | 9964 |
| 35° | 10640 | 9824 | 9710 |
| 40° | 10469 | 9569 | 9445 |
| 45° | 10215 | 9334 | 9218 |
| 50° | 10000 | 9062 | 8977 |
| 55° | 9778 | 8806 | 8695 |
| 60° | 9431 | 8480 | 8438 |
| 65° | 9051 | 8130 | 8122 |
| 70° | 8591 | 7730 | 7753 |
| 75° | 7950 | 7291 | 7421 |
| 80° | 7239 | 6868 | 7093 |
| 85° | 6329 | 6495 | 6901 |



TEST NUMBER: P332861

CATALOG NUMBER: S124DIW-S1195D1560U835-4F0-1E-UDD-D

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 135.0 | 1.2 |
| 10°-20° | 386.9 | 3.5 |
| 20°-30° | 585.0 | 5.3 |
| 30°-40° | 707.8 | 6.4 |
| 40°-50° | 748.3 | 6.7 |
| 50°-60° | 704.2 | 6.3 |
| 60°-70° | 584.3 | 5.3 |
| 70°-80° | 410.4 | 3.7 |
| 80°-90° | 237.8 | 2.1 |
| 90°-100° | 206.7 | 1.9 |
| 100°-110° | 541.7 | 4.9 |
| 110°-120° | 909.6 | 8.2 |
| 120°-130° | 1106.4 | 10.0 |
| 130°-140° | 1159.1 | 10.4 |
| 140°-150° | 1071.7 | 9.7 |
| 150°-160° | 861.5 | 7.8 |
| 160°-170° | 555.6 | 5.0 |
| 170°-180° | 191.5 | 1.7 |
| 0°-30° | 1106.9 | 10.0 |
| 0°-40° | 1814.7 | 16.3 |
| 0°-60° | 3267.3 | 29.4 |
| 0°-90° | 4499.8 | 40.5 |
| 90°-120° | 1658.0 | 14.9 |
| 90°-150° | 4995.1 | 45.0 |
| 90°-180° | 6604.0 | 59.5 |
| 0°-180° | 11103.6 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 1426 | 1426 | 1426 | 1426 | 1426 | |
| 5° | 1428 | 1422 | 1412 | 1424 | 1423 | 135 |
| 15° | 1368 | 1370 | 1365 | 1379 | 1378 | 385 |
| 25° | 1252 | 1261 | 1266 | 1283 | 1285 | 576 |
| 35° | 1095 | 1114 | 1130 | 1152 | 1158 | 686 |
| 45° | 913 | 944 | 974 | 1000 | 1009 | 706 |
| 55° | 715 | 750 | 797 | 828 | 838 | 637 |
| 65° | 495 | 546 | 600 | 639 | 653 | 490 |
| 75° | 275 | 334 | 401 | 444 | 460 | 292 |
| 85° | 85 | 152 | 224 | 270 | 287 | 90 |
| 90° | 30 | 111 | 191 | 244 | 262 | 21 |
| 95° | 104 | 109 | 172 | 222 | 240 | 123 |
| 105° | 468 | 511 | 576 | 624 | 588 | 491 |
| 115° | 857 | 878 | 926 | 962 | 975 | 844 |
| 125° | 1198 | 1204 | 1239 | 1273 | 1285 | 1069 |
| 135° | 1481 | 1481 | 1497 | 1524 | 1538 | 1141 |
| 145° | 1706 | 1708 | 1709 | 1720 | 1729 | 1066 |
| 155° | 1868 | 1870 | 1865 | 1871 | 1867 | 861 |
| 165° | 1971 | 1964 | 1964 | 1974 | 1962 | 557 |
| 175° | 2016 | 2008 | 2009 | 2021 | 2004 | 192 |
| 180° | 2016 | 2016 | 2016 | 2016 | 2016 | |



TEST NUMBER: P332861

CATALOG NUMBER: S124DIW-S1195D1560U835-4F0-1E-UDD-D

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1426.0 | 1426.0 | 1426.0 | 1426.0 | 1426.0 | 1426.0 | 1426.0 | 1426.0 | 1426.0 | 1426.0 | 1426.0 |
| 2.5° | 1431.1 | 1430.2 | 1429.4 | 1428.5 | 1427.7 | 1426.1 | 1423.8 | 1421.6 | 1419.3 | 1417.0 | 1419.0 |
| 5° | 1427.5 | 1426.5 | 1425.4 | 1424.4 | 1423.3 | 1421.5 | 1419.0 | 1416.5 | 1414.1 | 1411.6 | 1414.4 |
| 7.5° | 1415.4 | 1414.8 | 1414.1 | 1413.5 | 1412.9 | 1411.5 | 1409.5 | 1407.4 | 1405.3 | 1403.3 | 1406.5 |
| 10° | 1405.2 | 1404.8 | 1404.5 | 1404.1 | 1403.8 | 1402.7 | 1400.9 | 1399.2 | 1397.4 | 1395.6 | 1398.8 |
| 12.5° | 1391.1 | 1391.1 | 1391.0 | 1390.9 | 1390.9 | 1390.2 | 1389.0 | 1387.8 | 1386.6 | 1385.4 | 1388.3 |
| 15° | 1368.5 | 1368.8 | 1369.2 | 1369.5 | 1369.9 | 1369.5 | 1368.5 | 1367.4 | 1366.3 | 1365.3 | 1368.5 |
| 17.5° | 1337.5 | 1338.6 | 1339.6 | 1340.7 | 1341.7 | 1342.2 | 1342.0 | 1341.7 | 1341.5 | 1341.3 | 1344.6 |
| 20° | 1315.8 | 1316.8 | 1317.9 | 1319.0 | 1320.0 | 1320.7 | 1321.1 | 1321.5 | 1321.8 | 1322.2 | 1325.7 |
| 22.5° | 1291.5 | 1292.8 | 1294.2 | 1295.5 | 1296.9 | 1297.9 | 1298.5 | 1299.2 | 1299.8 | 1300.4 | 1304.0 |
| 25° | 1251.9 | 1254.0 | 1256.2 | 1258.3 | 1260.4 | 1262.0 | 1263.1 | 1264.1 | 1265.2 | 1266.3 | 1270.2 |
| 27.5° | 1207.8 | 1211.0 | 1214.1 | 1217.2 | 1220.3 | 1222.7 | 1224.3 | 1226.0 | 1227.6 | 1229.2 | 1232.8 |
| 30° | 1178.4 | 1181.3 | 1184.1 | 1187.0 | 1189.8 | 1192.5 | 1194.9 | 1197.4 | 1199.9 | 1202.4 | 1206.3 |
| 32.5° | 1146.5 | 1149.9 | 1153.3 | 1156.7 | 1160.1 | 1163.2 | 1166.0 | 1168.8 | 1171.5 | 1174.3 | 1178.8 |
| 35° | 1095.4 | 1099.7 | 1103.9 | 1108.2 | 1112.4 | 1116.3 | 1119.9 | 1123.4 | 1127.0 | 1130.5 | 1135.5 |
| 37.5° | 1044.0 | 1048.9 | 1053.8 | 1058.7 | 1063.6 | 1068.2 | 1072.6 | 1077.0 | 1081.4 | 1085.8 | 1090.9 |
| 40° | 1010.8 | 1015.4 | 1020.0 | 1024.6 | 1029.2 | 1034.0 | 1039.0 | 1044.0 | 1048.9 | 1053.9 | 1059.2 |
| 42.5° | 972.5 | 977.6 | 982.8 | 988.0 | 993.2 | 998.7 | 1004.5 | 1010.3 | 1016.1 | 1022.0 | 1027.9 |
| 45° | 913.4 | 920.1 | 926.9 | 933.6 | 940.3 | 947.1 | 953.8 | 960.6 | 967.3 | 974.1 | 980.1 |
| 47.5° | 856.8 | 863.8 | 870.8 | 877.7 | 884.7 | 892.1 | 899.9 | 907.7 | 915.5 | 923.3 | 929.5 |
| 50° | 816.0 | 823.8 | 831.6 | 839.4 | 847.2 | 855.0 | 862.8 | 870.6 | 878.4 | 886.2 | 893.3 |
| 52.5° | 775.1 | 782.9 | 790.7 | 798.5 | 806.3 | 814.7 | 823.6 | 832.6 | 841.5 | 850.5 | 857.6 |
| 55° | 715.4 | 722.8 | 730.3 | 737.7 | 745.2 | 754.2 | 764.9 | 775.5 | 786.2 | 796.8 | 803.9 |
| 57.5° | 648.6 | 657.9 | 667.1 | 676.3 | 685.5 | 695.4 | 706.0 | 716.6 | 727.2 | 737.7 | 746.2 |
| 60° | 605.2 | 614.4 | 623.6 | 632.9 | 642.1 | 652.6 | 664.3 | 676.0 | 687.7 | 699.4 | 707.6 |
| 62.5° | 563.0 | 573.1 | 583.2 | 593.3 | 603.3 | 614.2 | 626.0 | 637.7 | 649.4 | 661.1 | 669.2 |
| 65° | 495.0 | 506.4 | 517.7 | 529.1 | 540.4 | 552.1 | 564.2 | 576.3 | 588.3 | 600.4 | 609.3 |
| 67.5° | 429.5 | 441.6 | 453.7 | 465.7 | 477.8 | 490.3 | 503.2 | 516.1 | 529.0 | 542.0 | 551.0 |
| 70° | 384.8 | 396.9 | 409.0 | 421.0 | 433.1 | 445.9 | 459.3 | 472.8 | 486.3 | 499.8 | 509.4 |
| 72.5° | 341.4 | 353.7 | 366.1 | 378.4 | 390.8 | 404.1 | 418.5 | 432.8 | 447.1 | 461.5 | 470.8 |
| 75° | 274.7 | 287.8 | 300.9 | 314.0 | 327.2 | 341.2 | 356.1 | 371.0 | 385.9 | 400.8 | 410.7 |
| 77.5° | 212.4 | 226.3 | 240.2 | 254.1 | 268.0 | 282.8 | 298.4 | 314.0 | 329.6 | 345.2 | 355.3 |
| 80° | 174.1 | 188.2 | 202.4 | 216.6 | 230.8 | 245.7 | 261.3 | 277.0 | 292.6 | 308.2 | 318.8 |
| 82.5° | 135.7 | 150.5 | 165.3 | 180.0 | 194.8 | 210.0 | 225.6 | 241.2 | 256.8 | 272.4 | 283.3 |
| 85° | 84.6 | 99.5 | 114.4 | 129.3 | 144.2 | 159.7 | 175.6 | 191.6 | 207.6 | 223.6 | 234.2 |
| 87.5° | 48.2 | 63.4 | 78.6 | 93.8 | 109.0 | 124.7 | 140.8 | 156.8 | 172.9 | 189.0 | 199.7 |
| 90° | 30.1 | 48.0 | 65.8 | 83.7 | 101.6 | 119.5 | 137.4 | 155.4 | 173.3 | 191.3 | 203.6 |
| 92.5° | 43.3 | 56.2 | 69.2 | 82.2 | 95.2 | 110.6 | 128.6 | 146.5 | 164.5 | 182.4 | 194.4 |
| 95° | 103.7 | 104.0 | 104.3 | 104.6 | 105.0 | 112.6 | 127.4 | 142.3 | 157.2 | 172.1 | 183.7 |
| 97.5° | 195.0 | 212.2 | 229.3 | 246.5 | 263.7 | 260.8 | 237.8 | 214.8 | 191.8 | 168.8 | 178.3 |
| 100° | 264.9 | 280.1 | 295.4 | 310.7 | 325.9 | 317.3 | 284.9 | 252.5 | 220.1 | 187.7 | 191.6 |
| 102.5° | 344.5 | 357.0 | 369.5 | 382.1 | 394.6 | 404.6 | 412.1 | 419.6 | 427.2 | 434.7 | 382.5 |
| 105° | 468.3 | 477.4 | 486.5 | 495.6 | 504.7 | 516.7 | 531.5 | 546.3 | 561.1 | 575.9 | 587.8 |
| 107.5° | 585.9 | 592.7 | 599.6 | 606.4 | 613.2 | 624.0 | 638.7 | 653.4 | 668.1 | 682.8 | 693.0 |
| 110° | 664.2 | 670.2 | 676.2 | 682.2 | 688.1 | 698.3 | 712.8 | 727.2 | 741.6 | 756.1 | 764.9 |



TEST NUMBER: P332861

CATALOG NUMBER: S124DIW-S1195D1560U835-4F0-1E-UDD-D

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 740.2 | 746.4 | 752.6 | 758.8 | 765.0 | 774.5 | 787.3 | 800.1 | 812.9 | 825.7 | 833.4 |
| 115° | 857.1 | 861.3 | 865.5 | 869.7 | 873.9 | 881.5 | 892.5 | 903.5 | 914.6 | 925.6 | 934.1 |
| 117.5° | 963.9 | 967.1 | 970.4 | 973.6 | 976.9 | 984.2 | 995.5 | 1006.8 | 1018.1 | 1029.4 | 1036.7 |
| 120° | 1035.0 | 1037.4 | 1039.8 | 1042.2 | 1044.6 | 1050.8 | 1060.7 | 1070.7 | 1080.6 | 1090.6 | 1098.3 |
| 122.5° | 1102.5 | 1103.5 | 1104.6 | 1105.6 | 1106.6 | 1112.2 | 1122.4 | 1132.6 | 1142.8 | 1153.0 | 1160.5 |
| 125° | 1197.7 | 1198.7 | 1199.7 | 1200.7 | 1201.7 | 1206.3 | 1214.5 | 1222.7 | 1230.9 | 1239.1 | 1246.8 |
| 127.5° | 1289.1 | 1289.1 | 1289.1 | 1289.0 | 1289.0 | 1293.2 | 1301.6 | 1309.9 | 1318.3 | 1326.6 | 1332.8 |
| 130° | 1346.9 | 1346.9 | 1346.9 | 1346.9 | 1346.9 | 1350.2 | 1356.9 | 1363.6 | 1370.2 | 1376.9 | 1383.7 |
| 132.5° | 1401.2 | 1401.5 | 1401.7 | 1402.0 | 1402.2 | 1405.3 | 1411.1 | 1416.9 | 1422.7 | 1428.5 | 1435.0 |
| 135° | 1481.1 | 1480.7 | 1480.4 | 1480.1 | 1479.7 | 1481.5 | 1485.3 | 1489.1 | 1492.9 | 1496.8 | 1503.1 |
| 137.5° | 1553.2 | 1552.9 | 1552.7 | 1552.5 | 1552.3 | 1553.5 | 1556.2 | 1558.9 | 1561.5 | 1564.2 | 1570.1 |
| 140° | 1600.2 | 1600.5 | 1600.8 | 1601.2 | 1601.5 | 1602.1 | 1603.2 | 1604.2 | 1605.2 | 1606.2 | 1611.9 |
| 142.5° | 1641.2 | 1642.3 | 1643.4 | 1644.6 | 1645.7 | 1646.4 | 1646.5 | 1646.7 | 1646.9 | 1647.1 | 1651.9 |
| 145° | 1705.7 | 1706.3 | 1707.0 | 1707.6 | 1708.3 | 1708.6 | 1708.6 | 1708.6 | 1708.6 | 1708.6 | 1711.1 |
| 147.5° | 1757.3 | 1758.8 | 1760.3 | 1761.8 | 1763.3 | 1763.9 | 1763.6 | 1763.3 | 1762.9 | 1762.6 | 1763.1 |
| 150° | 1794.7 | 1795.6 | 1796.6 | 1797.6 | 1798.6 | 1798.9 | 1798.6 | 1798.3 | 1797.9 | 1797.6 | 1797.6 |
| 152.5° | 1824.7 | 1825.7 | 1826.7 | 1827.7 | 1828.8 | 1829.0 | 1828.3 | 1827.7 | 1827.1 | 1826.5 | 1827.1 |
| 155° | 1868.5 | 1868.8 | 1869.1 | 1869.5 | 1869.8 | 1869.5 | 1868.5 | 1867.5 | 1866.5 | 1865.4 | 1866.8 |
| 157.5° | 1905.6 | 1905.4 | 1905.2 | 1905.0 | 1904.8 | 1904.1 | 1902.9 | 1901.8 | 1900.7 | 1899.5 | 1901.3 |
| 160° | 1927.3 | 1926.3 | 1925.3 | 1924.3 | 1923.3 | 1922.6 | 1922.2 | 1921.9 | 1921.6 | 1921.2 | 1923.3 |
| 162.5° | 1946.6 | 1945.3 | 1944.0 | 1942.8 | 1941.5 | 1940.7 | 1940.3 | 1940.0 | 1939.7 | 1939.3 | 1941.3 |
| 165° | 1971.0 | 1969.3 | 1967.7 | 1966.0 | 1964.3 | 1963.5 | 1963.5 | 1963.5 | 1963.5 | 1963.5 | 1966.1 |
| 167.5° | 1990.3 | 1988.6 | 1986.8 | 1985.1 | 1983.3 | 1982.4 | 1982.2 | 1982.0 | 1981.8 | 1981.6 | 1984.5 |
| 170° | 2001.2 | 1999.2 | 1997.1 | 1995.1 | 1993.1 | 1992.3 | 1992.6 | 1993.0 | 1993.3 | 1993.6 | 1996.3 |
| 172.5° | 2008.4 | 2006.4 | 2004.4 | 2002.4 | 2000.4 | 1999.5 | 1999.9 | 2000.2 | 2000.5 | 2000.9 | 2003.5 |
| 175° | 2016.2 | 2014.2 | 2012.2 | 2010.2 | 2008.2 | 2007.4 | 2007.7 | 2008.0 | 2008.4 | 2008.7 | 2011.7 |
| 177.5° | 2019.9 | 2018.0 | 2016.1 | 2014.2 | 2012.4 | 2011.7 | 2012.2 | 2012.8 | 2013.3 | 2013.8 | 2016.0 |
| 180° | 2016.2 | 2016.2 | 2016.2 | 2016.2 | 2016.2 | 2016.2 | 2016.2 | 2016.2 | 2016.2 | 2016.2 | 2016.2 |



TEST NUMBER: P332861

CATALOG NUMBER: S124DIW-S1195D1560U835-4F0-1E-UDD-D

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1426.0 | 1426.0 | 1426.0 | 1426.0 | 1426.0 | 1426.0 | 1426.0 | 1426.0 |
| 2.5° | 1421.0 | 1423.0 | 1425.0 | 1425.8 | 1425.5 | 1425.2 | 1425.0 | 1424.7 |
| 5° | 1417.3 | 1420.1 | 1422.9 | 1424.2 | 1423.8 | 1423.5 | 1423.1 | 1422.8 |
| 7.5° | 1409.7 | 1412.9 | 1416.1 | 1417.5 | 1417.1 | 1416.8 | 1416.4 | 1416.1 |
| 10° | 1402.0 | 1405.2 | 1408.4 | 1409.8 | 1409.5 | 1409.1 | 1408.7 | 1408.4 |
| 12.5° | 1391.2 | 1394.1 | 1397.0 | 1398.5 | 1398.4 | 1398.3 | 1398.2 | 1398.2 |
| 15° | 1371.7 | 1374.9 | 1378.0 | 1379.5 | 1379.1 | 1378.8 | 1378.4 | 1378.0 |
| 17.5° | 1347.9 | 1351.1 | 1354.4 | 1355.9 | 1355.6 | 1355.3 | 1355.0 | 1354.7 |
| 20° | 1329.3 | 1332.8 | 1336.4 | 1338.1 | 1338.1 | 1338.1 | 1338.1 | 1338.1 |
| 22.5° | 1307.5 | 1311.1 | 1314.6 | 1316.7 | 1317.3 | 1317.8 | 1318.4 | 1319.0 |
| 25° | 1274.1 | 1278.0 | 1281.9 | 1284.0 | 1284.4 | 1284.7 | 1285.1 | 1285.4 |
| 27.5° | 1236.5 | 1240.1 | 1243.7 | 1245.7 | 1246.2 | 1246.6 | 1247.0 | 1247.4 |
| 30° | 1210.2 | 1214.1 | 1218.0 | 1220.3 | 1221.0 | 1221.7 | 1222.4 | 1223.2 |
| 32.5° | 1183.2 | 1187.7 | 1192.2 | 1194.8 | 1195.5 | 1196.2 | 1196.9 | 1197.6 |
| 35° | 1140.5 | 1145.4 | 1150.4 | 1153.4 | 1154.5 | 1155.6 | 1156.6 | 1157.7 |
| 37.5° | 1095.9 | 1100.9 | 1106.0 | 1109.1 | 1110.2 | 1111.3 | 1112.5 | 1113.6 |
| 40° | 1064.5 | 1069.9 | 1075.2 | 1078.6 | 1080.0 | 1081.4 | 1082.8 | 1084.2 |
| 42.5° | 1033.7 | 1039.6 | 1045.5 | 1049.0 | 1050.2 | 1051.3 | 1052.4 | 1053.6 |
| 45° | 986.1 | 992.2 | 998.2 | 1002.1 | 1003.9 | 1005.6 | 1007.4 | 1009.2 |
| 47.5° | 935.8 | 942.0 | 948.3 | 952.4 | 954.6 | 956.7 | 958.8 | 961.0 |
| 50° | 900.4 | 907.5 | 914.6 | 919.2 | 921.4 | 923.5 | 925.6 | 927.7 |
| 52.5° | 864.7 | 871.8 | 878.8 | 883.5 | 885.6 | 887.7 | 889.8 | 892.0 |
| 55° | 811.0 | 818.1 | 825.2 | 829.8 | 831.9 | 834.1 | 836.2 | 838.3 |
| 57.5° | 754.6 | 763.1 | 771.5 | 776.7 | 778.7 | 780.7 | 782.7 | 784.7 |
| 60° | 715.7 | 723.9 | 732.0 | 737.5 | 740.4 | 743.2 | 746.1 | 748.9 |
| 62.5° | 677.4 | 685.6 | 693.7 | 699.2 | 702.1 | 704.9 | 707.7 | 710.6 |
| 65° | 618.1 | 627.0 | 635.9 | 641.7 | 644.6 | 647.4 | 650.3 | 653.1 |
| 67.5° | 560.0 | 569.0 | 578.0 | 583.9 | 586.7 | 589.4 | 592.2 | 595.0 |
| 70° | 519.0 | 528.5 | 538.1 | 544.2 | 546.6 | 549.1 | 551.6 | 554.1 |
| 72.5° | 480.1 | 489.4 | 498.7 | 504.7 | 507.5 | 510.2 | 513.0 | 515.8 |
| 75° | 420.7 | 430.6 | 440.5 | 447.1 | 450.3 | 453.5 | 456.7 | 459.9 |
| 77.5° | 365.4 | 375.5 | 385.5 | 392.3 | 395.7 | 399.1 | 402.5 | 405.9 |
| 80° | 329.5 | 340.1 | 350.8 | 357.5 | 360.3 | 363.2 | 366.0 | 368.9 |
| 82.5° | 294.3 | 305.2 | 316.1 | 323.2 | 326.3 | 329.4 | 332.5 | 335.6 |
| 85° | 244.8 | 255.5 | 266.1 | 273.2 | 276.8 | 280.3 | 283.9 | 287.4 |
| 87.5° | 210.4 | 221.1 | 231.8 | 238.7 | 242.0 | 245.3 | 248.5 | 251.8 |
| 90° | 215.9 | 228.2 | 240.5 | 248.4 | 251.9 | 255.4 | 258.9 | 262.4 |
| 92.5° | 206.4 | 218.4 | 230.5 | 238.0 | 240.9 | 243.9 | 246.9 | 249.8 |
| 95° | 195.3 | 206.9 | 218.5 | 226.0 | 229.6 | 233.1 | 236.6 | 240.1 |
| 97.5° | 187.8 | 197.3 | 206.8 | 213.3 | 216.7 | 220.0 | 223.4 | 226.8 |
| 100° | 195.5 | 199.4 | 203.2 | 206.6 | 209.4 | 212.2 | 215.1 | 217.9 |
| 102.5° | 330.3 | 278.2 | 226.0 | 201.4 | 204.2 | 207.0 | 209.9 | 212.7 |
| 105° | 599.7 | 611.6 | 623.4 | 624.8 | 615.6 | 606.3 | 597.1 | 587.9 |
| 107.5° | 703.2 | 713.4 | 723.6 | 730.6 | 734.4 | 738.2 | 742.1 | 745.9 |
| 110° | 773.7 | 782.6 | 791.4 | 797.7 | 801.6 | 805.4 | 809.3 | 813.1 |



TEST NUMBER: P332861

CATALOG NUMBER: S124DIW-S1195D1560U835-4F0-1E-UDD-D

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 841.2 | 848.9 | 856.7 | 862.6 | 866.7 | 870.8 | 874.9 | 879.0 |
| 115° | 942.5 | 951.0 | 959.5 | 965.0 | 967.5 | 969.9 | 972.4 | 974.9 |
| 117.5° | 1043.9 | 1051.1 | 1058.4 | 1063.4 | 1066.1 | 1068.8 | 1071.5 | 1074.2 |
| 120° | 1106.1 | 1113.9 | 1121.6 | 1126.6 | 1128.8 | 1131.0 | 1133.1 | 1135.3 |
| 122.5° | 1168.0 | 1175.5 | 1183.0 | 1187.6 | 1189.5 | 1191.4 | 1193.3 | 1195.2 |
| 125° | 1254.6 | 1262.3 | 1270.1 | 1275.2 | 1277.6 | 1280.1 | 1282.6 | 1285.0 |
| 127.5° | 1339.0 | 1345.2 | 1351.4 | 1355.5 | 1357.7 | 1359.8 | 1362.0 | 1364.1 |
| 130° | 1390.4 | 1397.1 | 1403.8 | 1408.2 | 1410.4 | 1412.5 | 1414.6 | 1416.8 |
| 132.5° | 1441.4 | 1447.8 | 1454.3 | 1458.4 | 1460.3 | 1462.1 | 1464.0 | 1465.9 |
| 135° | 1509.5 | 1515.8 | 1522.2 | 1526.7 | 1529.5 | 1532.3 | 1535.1 | 1537.9 |
| 137.5° | 1576.1 | 1582.0 | 1587.9 | 1591.6 | 1593.2 | 1594.8 | 1596.4 | 1597.9 |
| 140° | 1617.5 | 1623.1 | 1628.7 | 1632.6 | 1634.7 | 1636.8 | 1638.9 | 1641.0 |
| 142.5° | 1656.7 | 1661.5 | 1666.2 | 1669.4 | 1671.0 | 1672.5 | 1674.1 | 1675.6 |
| 145° | 1713.5 | 1716.0 | 1718.5 | 1720.7 | 1722.8 | 1724.9 | 1727.0 | 1729.1 |
| 147.5° | 1763.7 | 1764.3 | 1764.8 | 1765.8 | 1767.3 | 1768.8 | 1770.2 | 1771.7 |
| 150° | 1797.6 | 1797.6 | 1797.6 | 1797.8 | 1798.1 | 1798.4 | 1798.8 | 1799.1 |
| 152.5° | 1827.6 | 1828.1 | 1828.7 | 1828.8 | 1828.6 | 1828.4 | 1828.2 | 1828.0 |
| 155° | 1868.1 | 1869.5 | 1870.8 | 1871.0 | 1870.0 | 1869.0 | 1868.0 | 1867.0 |
| 157.5° | 1903.0 | 1904.8 | 1906.5 | 1906.5 | 1904.8 | 1903.0 | 1901.3 | 1899.5 |
| 160° | 1925.3 | 1927.3 | 1929.3 | 1929.3 | 1927.3 | 1925.3 | 1923.3 | 1921.2 |
| 162.5° | 1943.4 | 1945.4 | 1947.4 | 1947.2 | 1945.0 | 1942.7 | 1940.4 | 1938.1 |
| 165° | 1968.8 | 1971.5 | 1974.2 | 1974.0 | 1971.0 | 1968.0 | 1965.0 | 1962.0 |
| 167.5° | 1987.5 | 1990.4 | 1993.4 | 1993.2 | 1989.8 | 1986.5 | 1983.1 | 1979.8 |
| 170° | 1999.0 | 2001.7 | 2004.4 | 2004.0 | 2000.7 | 1997.3 | 1994.0 | 1990.6 |
| 172.5° | 2006.2 | 2008.9 | 2011.6 | 2011.1 | 2007.5 | 2003.9 | 2000.3 | 1996.6 |
| 175° | 2014.7 | 2017.8 | 2020.8 | 2020.3 | 2016.2 | 2012.2 | 2008.2 | 2004.2 |
| 177.5° | 2018.1 | 2020.3 | 2022.4 | 2021.9 | 2018.7 | 2015.4 | 2012.2 | 2009.0 |
| 180° | 2016.2 | 2016.2 | 2016.2 | 2016.2 | 2016.2 | 2016.2 | 2016.2 | 2016.2 |

(END OF REPORT)