

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: P331864-940

Luminaire Tested: **S122RDIW-S1005D1440U940-4F0-1E-UDD-F1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P331864-940  
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: S122RDIW-S1005D1440U940-4F0-1E-UDD-F1  
Description: DEFINE 2 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE  
DOWNLIGHT 1005 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER, REGRESSED  
HOUSING  
UPLIGHT 1440 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7566.5 lumens  
Efficiency: N/A  
Efficacy: 91.3 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 0.99 / 1.16  
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')  
CIE Type: General Diffuse

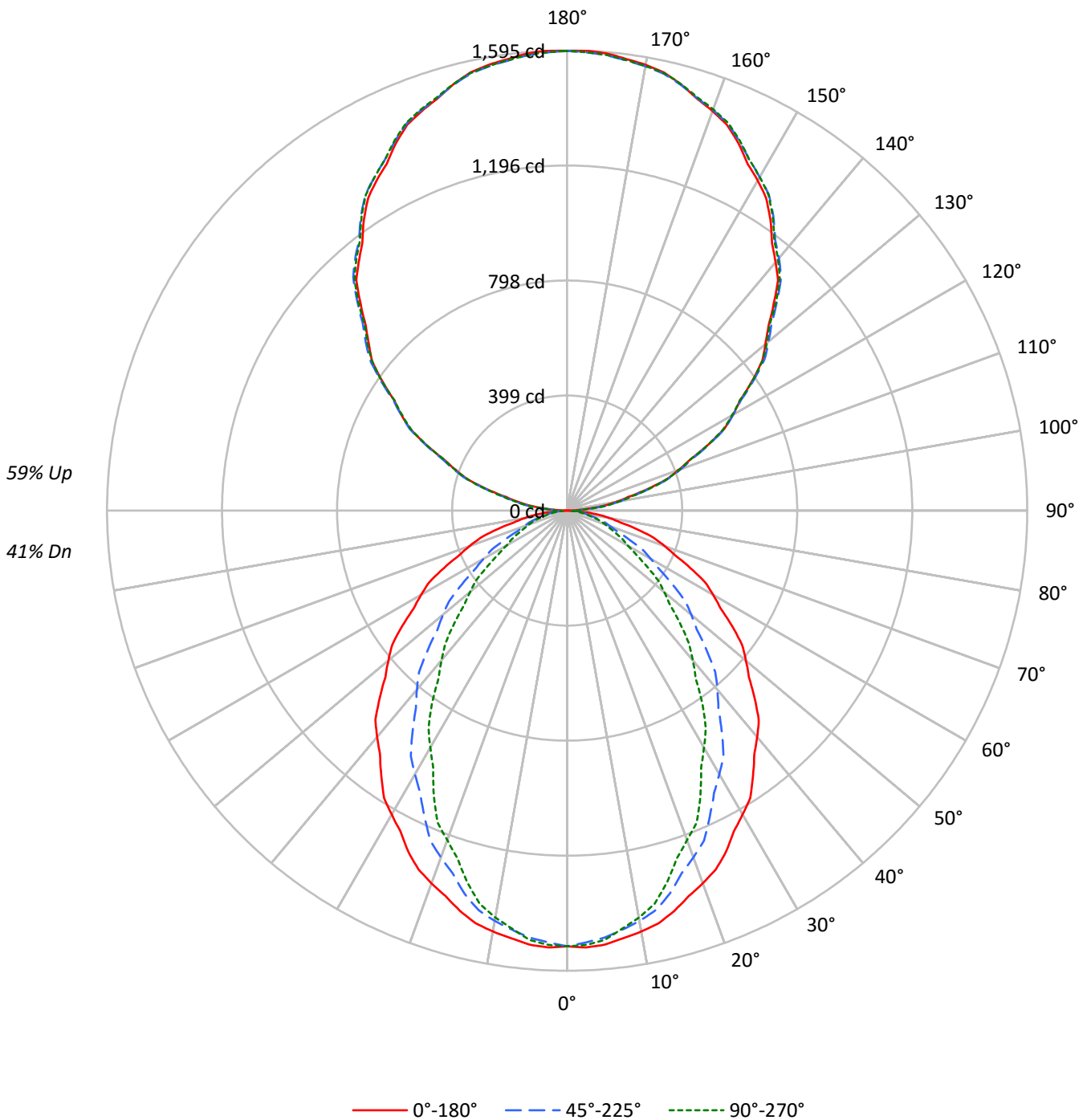
Input Watts (W): 82.9  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





TEST NUMBER: P331864-940

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**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   | 105 | 105 | 105 | 105 | 96 | 96 | 96 | 96 | 78 | 78 | 78 | 63 | 63 | 63 | 48 | 48 | 48 | 41 |
| 1   | 96  | 92  | 88  | 85  | 88 | 84 | 81 | 78 | 69 | 67 | 65 | 56 | 54 | 53 | 43 | 42 | 41 | 35 |
| 2   | 88  | 81  | 75  | 70  | 80 | 74 | 69 | 65 | 61 | 58 | 54 | 49 | 47 | 45 | 38 | 37 | 35 | 30 |
| 3   | 80  | 71  | 64  | 59  | 73 | 65 | 59 | 55 | 54 | 50 | 46 | 44 | 41 | 38 | 34 | 32 | 30 | 26 |
| 4   | 74  | 63  | 56  | 50  | 67 | 58 | 52 | 47 | 48 | 44 | 40 | 39 | 36 | 33 | 31 | 29 | 27 | 23 |
| 5   | 68  | 57  | 49  | 43  | 62 | 52 | 45 | 40 | 43 | 38 | 34 | 35 | 32 | 29 | 28 | 25 | 23 | 20 |
| 6   | 62  | 51  | 43  | 37  | 57 | 47 | 40 | 35 | 39 | 34 | 30 | 32 | 28 | 25 | 26 | 23 | 21 | 18 |
| 7   | 58  | 46  | 38  | 33  | 53 | 42 | 36 | 31 | 36 | 30 | 27 | 29 | 25 | 23 | 23 | 21 | 19 | 16 |
| 8   | 54  | 42  | 34  | 29  | 49 | 39 | 32 | 27 | 33 | 27 | 24 | 27 | 23 | 20 | 22 | 19 | 17 | 14 |
| 9   | 50  | 38  | 31  | 26  | 46 | 35 | 29 | 24 | 30 | 25 | 21 | 25 | 21 | 18 | 20 | 17 | 15 | 13 |
| 10  | 47  | 35  | 28  | 23  | 43 | 32 | 26 | 22 | 28 | 23 | 19 | 23 | 19 | 17 | 19 | 16 | 14 | 12 |

**AVERAGE LUMINANCE (cd/sqm):**

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 24380 | 24380 | 24380 |
| 5°  | 24473 | 24076 | 24209 |
| 10° | 24287 | 23682 | 23481 |
| 15° | 24008 | 22980 | 22318 |
| 20° | 23622 | 21978 | 20874 |
| 25° | 23225 | 20838 | 19475 |
| 30° | 22676 | 19669 | 17682 |
| 35° | 22141 | 18398 | 16109 |
| 40° | 21602 | 17081 | 14286 |
| 45° | 20970 | 15602 | 12638 |
| 50° | 20321 | 14109 | 11017 |
| 55° | 19657 | 12504 | 9464  |
| 60° | 18887 | 10811 | 7857  |
| 65° | 18010 | 9085  | 7156  |
| 70° | 16966 | 7482  | 6581  |
| 75° | 15689 | 6818  | 6138  |
| 80° | 13845 | 6100  | 5588  |
| 85° | 10893 | 4798  | 4798  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 141.3  | 1.9       |
| 10°-20°   | 388.1  | 5.1       |
| 20°-30°   | 545.0  | 7.2       |
| 30°-40°   | 594.3  | 7.9       |
| 40°-50°   | 546.4  | 7.2       |
| 50°-60°   | 429.2  | 5.7       |
| 60°-70°   | 279.8  | 3.7       |
| 70°-80°   | 144.3  | 1.9       |
| 80°-90°   | 43.8   | 0.6       |
| 90°-100°  | 100.9  | 1.3       |
| 100°-110° | 313.5  | 4.1       |
| 110°-120° | 535.9  | 7.1       |
| 120°-130° | 704.7  | 9.3       |
| 130°-140° | 791.0  | 10.5      |
| 140°-150° | 775.6  | 10.2      |
| 150°-160° | 650.5  | 8.6       |
| 160°-170° | 431.5  | 5.7       |
| 170°-180° | 150.8  | 2.0       |
| 0°-30°    | 1074.4 | 14.2      |
| 0°-40°    | 1668.7 | 22.1      |
| 0°-60°    | 2644.3 | 34.9      |
| 0°-90°    | 3112.2 | 41.1      |
| 90°-120°  | 950.3  | 12.6      |
| 90°-150°  | 3221.6 | 42.6      |
| 90°-180°  | 4454.0 | 58.9      |
| 0°-180°   | 7566.5 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 1510 | 1510  | 1510 | 1510  | 1510 |      |
| 5°   | 1510 | 1503  | 1486 | 1497  | 1494 | 143  |
| 15°  | 1436 | 1419  | 1375 | 1350  | 1335 | 404  |
| 25°  | 1304 | 1257  | 1170 | 1116  | 1093 | 599  |
| 35°  | 1123 | 1051  | 933  | 850   | 817  | 703  |
| 45°  | 918  | 824   | 683  | 590   | 554  | 709  |
| 55°  | 698  | 589   | 444  | 365   | 336  | 624  |
| 65°  | 471  | 360   | 238  | 194   | 187  | 467  |
| 75°  | 252  | 158   | 109  | 100   | 98   | 266  |
| 85°  | 59   | 31    | 26   | 26    | 26   | 69   |
| 90°  | 1    | 18    | 47   | 45    | 46   | 6    |
| 95°  | 70   | 83    | 86   | 86    | 83   | 80   |
| 105° | 289  | 293   | 296  | 298   | 298  | 305  |
| 115° | 538  | 545   | 543  | 542   | 538  | 532  |
| 125° | 782  | 794   | 790  | 787   | 785  | 699  |
| 135° | 1012 | 1026  | 1030 | 1028  | 1024 | 782  |
| 145° | 1229 | 1238  | 1246 | 1247  | 1242 | 767  |
| 155° | 1405 | 1409  | 1413 | 1419  | 1416 | 646  |
| 165° | 1528 | 1527  | 1527 | 1536  | 1530 | 431  |
| 175° | 1590 | 1586  | 1584 | 1592  | 1585 | 151  |
| 180° | 1593 | 1593  | 1593 | 1593  | 1593 |      |



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**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1510.0 | 1510.0 | 1510.0 | 1510.0 | 1510.0 | 1510.0 | 1510.0 | 1510.0 | 1510.0 | 1510.0 | 1510.0 |
| 2.5°   | 1515.6 | 1514.3 | 1513.1 | 1511.9 | 1510.6 | 1508.7 | 1506.0 | 1503.4 | 1500.7 | 1498.1 | 1500.5 |
| 5°     | 1510.0 | 1508.5 | 1507.0 | 1505.5 | 1504.0 | 1501.3 | 1497.3 | 1493.3 | 1489.4 | 1485.5 | 1488.2 |
| 7.5°   | 1494.5 | 1492.6 | 1490.8 | 1488.8 | 1486.9 | 1483.7 | 1479.1 | 1474.4 | 1469.9 | 1465.3 | 1466.1 |
| 10°    | 1481.4 | 1479.3 | 1477.1 | 1475.0 | 1472.8 | 1468.7 | 1462.7 | 1456.6 | 1450.5 | 1444.5 | 1443.6 |
| 12.5°  | 1465.0 | 1462.3 | 1459.7 | 1457.1 | 1454.6 | 1449.3 | 1441.5 | 1433.8 | 1426.0 | 1418.3 | 1416.6 |
| 15°    | 1436.3 | 1432.9 | 1429.6 | 1426.2 | 1422.9 | 1416.0 | 1405.8 | 1395.4 | 1385.1 | 1374.8 | 1369.0 |
| 17.5°  | 1401.0 | 1395.9 | 1390.8 | 1385.7 | 1380.6 | 1371.5 | 1358.2 | 1345.0 | 1331.7 | 1318.5 | 1311.6 |
| 20°    | 1374.8 | 1368.7 | 1362.6 | 1356.6 | 1350.5 | 1339.9 | 1324.6 | 1309.5 | 1294.3 | 1279.1 | 1271.5 |
| 22.5°  | 1346.3 | 1339.5 | 1332.8 | 1326.0 | 1319.1 | 1307.2 | 1290.0 | 1272.9 | 1255.8 | 1238.7 | 1228.9 |
| 25°    | 1303.7 | 1294.0 | 1284.2 | 1274.5 | 1264.8 | 1250.0 | 1229.9 | 1209.9 | 1189.8 | 1169.7 | 1157.4 |
| 27.5°  | 1252.3 | 1241.8 | 1231.2 | 1220.7 | 1210.1 | 1193.5 | 1170.9 | 1148.3 | 1125.7 | 1103.1 | 1088.6 |
| 30°    | 1216.3 | 1204.7 | 1193.2 | 1181.6 | 1170.1 | 1152.2 | 1127.8 | 1103.6 | 1079.3 | 1055.0 | 1039.5 |
| 32.5°  | 1181.2 | 1167.8 | 1154.3 | 1140.9 | 1127.3 | 1108.2 | 1083.4 | 1058.6 | 1033.8 | 1009.1 | 991.4  |
| 35°    | 1123.3 | 1107.9 | 1092.3 | 1076.8 | 1061.4 | 1040.3 | 1013.5 | 986.9  | 960.1  | 933.4  | 914.3  |
| 37.5°  | 1065.4 | 1048.4 | 1031.4 | 1014.3 | 997.4  | 974.6  | 946.1  | 917.7  | 889.1  | 860.7  | 839.6  |
| 40°    | 1024.9 | 1006.7 | 988.5  | 970.3  | 952.1  | 928.2  | 898.8  | 869.3  | 839.8  | 810.4  | 788.8  |
| 42.5°  | 983.4  | 964.2  | 945.0  | 925.8  | 906.6  | 881.8  | 851.4  | 820.9  | 790.5  | 760.1  | 737.8  |
| 45°    | 918.4  | 898.0  | 877.6  | 857.3  | 837.0  | 810.8  | 778.9  | 747.1  | 715.2  | 683.3  | 661.7  |
| 47.5°  | 854.9  | 833.4  | 811.8  | 790.2  | 768.7  | 741.5  | 708.6  | 675.6  | 642.7  | 609.8  | 588.4  |
| 50°    | 809.0  | 787.5  | 765.9  | 744.3  | 722.7  | 695.3  | 661.9  | 628.5  | 595.0  | 561.7  | 540.7  |
| 52.5°  | 764.2  | 741.6  | 719.2  | 696.6  | 674.0  | 646.5  | 613.8  | 581.1  | 548.4  | 515.8  | 495.5  |
| 55°    | 698.3  | 674.7  | 650.9  | 627.2  | 603.6  | 575.3  | 542.5  | 509.7  | 477.0  | 444.2  | 425.9  |
| 57.5°  | 630.8  | 606.5  | 582.2  | 557.9  | 533.6  | 505.7  | 474.2  | 442.6  | 411.2  | 379.6  | 362.9  |
| 60°    | 584.9  | 560.6  | 536.3  | 512.0  | 487.7  | 459.9  | 428.6  | 397.3  | 366.0  | 334.8  | 319.3  |
| 62.5°  | 540.1  | 515.8  | 491.5  | 467.2  | 442.9  | 415.8  | 386.0  | 356.1  | 326.4  | 296.6  | 281.8  |
| 65°    | 471.4  | 446.8  | 422.3  | 397.7  | 373.1  | 347.1  | 319.8  | 292.5  | 265.1  | 237.8  | 227.5  |
| 67.5°  | 405.3  | 380.9  | 356.5  | 332.1  | 307.6  | 283.1  | 258.6  | 234.0  | 209.4  | 184.8  | 180.0  |
| 70°    | 359.4  | 335.7  | 312.0  | 288.4  | 264.7  | 242.4  | 221.4  | 200.5  | 179.5  | 158.5  | 155.5  |
| 72.5°  | 315.7  | 292.9  | 270.3  | 247.5  | 224.8  | 205.0  | 188.2  | 171.4  | 154.5  | 137.8  | 135.2  |
| 75°    | 251.5  | 230.2  | 208.9  | 187.7  | 166.4  | 150.6  | 140.3  | 130.0  | 119.7  | 109.3  | 107.2  |
| 77.5°  | 188.3  | 169.7  | 151.1  | 132.4  | 113.7  | 101.9  | 96.9   | 91.9   | 86.9   | 82.0   | 80.8   |
| 80°    | 148.9  | 133.5  | 118.0  | 102.5  | 87.0   | 77.8   | 74.7   | 71.7   | 68.7   | 65.6   | 64.4   |
| 82.5°  | 112.9  | 100.8  | 88.7   | 76.6   | 64.6   | 57.4   | 55.4   | 53.3   | 51.3   | 49.2   | 48.5   |
| 85°    | 58.8   | 52.3   | 46.0   | 39.6   | 33.3   | 29.6   | 28.7   | 27.8   | 26.8   | 25.9   | 25.9   |
| 87.5°  | 17.7   | 16.5   | 15.3   | 14.1   | 12.8   | 12.9   | 14.2   | 15.5   | 16.9   | 18.2   | 17.8   |
| 90°    | 1.3    | 4.9    | 8.5    | 12.1   | 15.7   | 20.8   | 27.4   | 33.9   | 40.5   | 47.1   | 46.5   |
| 92.5°  | 23.9   | 26.6   | 29.2   | 31.8   | 34.4   | 36.6   | 38.1   | 39.7   | 41.2   | 42.7   | 42.9   |
| 95°    | 69.9   | 72.9   | 75.9   | 78.8   | 81.9   | 83.6   | 84.3   | 84.8   | 85.4   | 86.1   | 86.1   |
| 97.5°  | 127.7  | 130.4  | 133.0  | 135.6  | 138.2  | 140.1  | 141.2  | 142.4  | 143.5  | 144.6  | 144.6  |
| 100°   | 170.8  | 173.1  | 175.5  | 177.9  | 180.3  | 181.9  | 182.8  | 183.7  | 184.6  | 185.5  | 185.5  |
| 102.5° | 215.9  | 217.8  | 219.7  | 221.6  | 223.6  | 225.1  | 226.2  | 227.3  | 228.5  | 229.6  | 229.9  |
| 105°   | 289.0  | 289.9  | 290.8  | 291.7  | 292.6  | 293.4  | 294.0  | 294.5  | 295.2  | 295.8  | 296.3  |
| 107.5° | 362.7  | 364.0  | 365.3  | 366.7  | 367.9  | 368.6  | 368.6  | 368.6  | 368.6  | 368.6  | 368.8  |
| 110°   | 410.0  | 411.8  | 413.6  | 415.4  | 417.1  | 418.1  | 418.1  | 418.1  | 418.1  | 418.1  | 418.1  |



TEST NUMBER: P331864-940

CATALOG NUMBER: S122RDIW-S1005D1440U940-4F0-1E-UDD-F1

**CANDELA DISTRIBUTION (continued):**

|        | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 461.6  | 463.4  | 465.2  | 467.0  | 468.8  | 469.6  | 469.3  | 469.1  | 468.9  | 468.6  | 467.9  |
| 115°   | 537.7  | 539.5  | 541.3  | 543.1  | 544.9  | 545.5  | 544.9  | 544.3  | 543.7  | 543.1  | 542.8  |
| 117.5° | 613.6  | 615.9  | 618.3  | 620.7  | 623.1  | 623.5  | 621.8  | 620.1  | 618.4  | 616.8  | 616.1  |
| 120°   | 664.1  | 666.5  | 668.9  | 671.3  | 673.7  | 673.7  | 671.3  | 668.9  | 666.5  | 664.1  | 664.1  |
| 122.5° | 710.3  | 713.2  | 716.0  | 718.9  | 721.8  | 722.4  | 720.8  | 719.1  | 717.4  | 715.7  | 715.0  |
| 125°   | 782.4  | 785.1  | 787.7  | 790.4  | 793.2  | 794.1  | 793.2  | 792.3  | 791.4  | 790.4  | 789.5  |
| 127.5° | 852.6  | 856.0  | 859.3  | 862.8  | 866.2  | 867.4  | 866.3  | 865.2  | 864.2  | 863.1  | 861.9  |
| 130°   | 896.6  | 900.5  | 904.5  | 908.3  | 912.2  | 913.8  | 913.2  | 912.7  | 912.0  | 911.4  | 910.9  |
| 132.5° | 946.1  | 949.3  | 952.4  | 955.6  | 958.8  | 960.5  | 960.6  | 960.6  | 960.8  | 960.9  | 959.6  |
| 135°   | 1012.3 | 1015.6 | 1018.9 | 1022.1 | 1025.4 | 1027.3 | 1028.0 | 1028.6 | 1029.1 | 1029.7 | 1029.5 |
| 137.5° | 1081.9 | 1084.6 | 1087.3 | 1089.9 | 1092.6 | 1094.4 | 1095.2 | 1095.9 | 1096.7 | 1097.5 | 1097.3 |
| 140°   | 1123.8 | 1126.5 | 1129.3 | 1131.9 | 1134.6 | 1136.7 | 1138.2 | 1139.7 | 1141.2 | 1142.6 | 1142.6 |
| 142.5° | 1166.9 | 1169.6 | 1172.2 | 1174.9 | 1177.6 | 1179.5 | 1180.4 | 1181.5 | 1182.5 | 1183.6 | 1183.7 |
| 145°   | 1228.7 | 1230.8 | 1232.9 | 1234.9 | 1237.1 | 1239.0 | 1240.8 | 1242.6 | 1244.4 | 1246.2 | 1246.4 |
| 147.5° | 1283.8 | 1286.3 | 1288.8 | 1291.4 | 1293.9 | 1295.7 | 1296.9 | 1298.1 | 1299.3 | 1300.5 | 1301.2 |
| 150°   | 1321.4 | 1323.2 | 1325.1 | 1326.9 | 1328.6 | 1330.1 | 1331.3 | 1332.5 | 1333.7 | 1334.9 | 1335.8 |
| 152.5° | 1354.8 | 1356.6 | 1358.3 | 1360.1 | 1362.0 | 1363.6 | 1365.0 | 1366.5 | 1367.9 | 1369.3 | 1370.5 |
| 155°   | 1404.8 | 1405.7 | 1406.6 | 1407.5 | 1408.4 | 1409.3 | 1410.2 | 1411.0 | 1411.9 | 1412.8 | 1414.3 |
| 157.5° | 1447.5 | 1448.1 | 1448.8 | 1449.4 | 1449.9 | 1450.5 | 1451.1 | 1451.6 | 1452.2 | 1452.7 | 1454.6 |
| 160°   | 1473.4 | 1474.0 | 1474.5 | 1475.2 | 1475.8 | 1476.2 | 1476.5 | 1476.8 | 1477.1 | 1477.4 | 1479.2 |
| 162.5° | 1497.0 | 1497.2 | 1497.3 | 1497.4 | 1497.5 | 1497.7 | 1498.0 | 1498.3 | 1498.6 | 1498.9 | 1500.9 |
| 165°   | 1528.5 | 1528.2 | 1527.9 | 1527.6 | 1527.3 | 1527.1 | 1527.1 | 1527.1 | 1527.1 | 1527.1 | 1529.2 |
| 167.5° | 1554.8 | 1553.9 | 1553.0 | 1552.1 | 1551.2 | 1550.8 | 1550.7 | 1550.7 | 1550.6 | 1550.5 | 1552.6 |
| 170°   | 1568.8 | 1567.9 | 1567.0 | 1566.1 | 1565.2 | 1564.6 | 1564.3 | 1564.1 | 1563.7 | 1563.4 | 1565.5 |
| 172.5° | 1578.5 | 1577.6 | 1576.7 | 1575.8 | 1574.9 | 1574.3 | 1574.0 | 1573.7 | 1573.4 | 1573.1 | 1575.2 |
| 175°   | 1590.3 | 1589.4 | 1588.5 | 1587.6 | 1586.7 | 1586.0 | 1585.4 | 1584.7 | 1584.2 | 1583.6 | 1585.7 |
| 177.5° | 1595.2 | 1594.5 | 1593.8 | 1593.0 | 1592.3 | 1591.7 | 1591.2 | 1590.7 | 1590.3 | 1589.7 | 1591.2 |
| 180°   | 1593.0 | 1593.0 | 1593.0 | 1593.0 | 1593.0 | 1593.0 | 1593.0 | 1593.0 | 1593.0 | 1593.0 | 1593.0 |



TEST NUMBER: P331864-940

CATALOG NUMBER: S122RDIW-S1005D1440U940-4F0-1E-UDD-F1

**CANDELA DISTRIBUTION (continued):**

|        | 55°    | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1510.0 | 1510.0 | 1510.0 | 1510.0 | 1510.0 | 1510.0 | 1510.0 | 1510.0 |
| 2.5°   | 1502.9 | 1505.3 | 1507.8 | 1508.7 | 1508.2 | 1507.8 | 1507.3 | 1506.8 |
| 5°     | 1490.9 | 1493.7 | 1496.4 | 1497.3 | 1496.4 | 1495.5 | 1494.6 | 1493.7 |
| 7.5°   | 1466.8 | 1467.6 | 1468.4 | 1468.0 | 1466.4 | 1464.8 | 1463.3 | 1461.7 |
| 10°    | 1442.6 | 1441.7 | 1440.8 | 1439.5 | 1437.6 | 1435.8 | 1434.0 | 1432.2 |
| 12.5°  | 1415.0 | 1413.3 | 1411.7 | 1409.3 | 1406.3 | 1403.3 | 1400.3 | 1397.2 |
| 15°    | 1363.2 | 1357.5 | 1351.7 | 1347.3 | 1344.3 | 1341.2 | 1338.2 | 1335.2 |
| 17.5°  | 1304.8 | 1297.9 | 1291.0 | 1285.0 | 1279.8 | 1274.5 | 1269.3 | 1264.1 |
| 20°    | 1263.9 | 1256.3 | 1248.8 | 1241.6 | 1234.9 | 1228.2 | 1221.6 | 1214.9 |
| 22.5°  | 1219.1 | 1209.3 | 1199.5 | 1192.1 | 1187.2 | 1182.2 | 1177.2 | 1172.2 |
| 25°    | 1144.9 | 1132.5 | 1120.0 | 1111.5 | 1106.9 | 1102.3 | 1097.8 | 1093.2 |
| 27.5°  | 1074.1 | 1059.5 | 1045.0 | 1034.1 | 1026.9 | 1019.7 | 1012.4 | 1005.2 |
| 30°    | 1024.0 | 1008.5 | 993.0  | 981.2  | 973.0  | 964.8  | 956.6  | 948.4  |
| 32.5°  | 973.7  | 956.1  | 938.3  | 925.7  | 918.0  | 910.3  | 902.5  | 894.8  |
| 35°    | 895.1  | 876.0  | 856.8  | 843.9  | 837.2  | 830.5  | 823.9  | 817.3  |
| 37.5°  | 818.5  | 797.5  | 776.3  | 762.0  | 754.4  | 746.7  | 739.0  | 731.4  |
| 40°    | 767.2  | 745.6  | 724.2  | 709.4  | 701.5  | 693.6  | 685.7  | 677.8  |
| 42.5°  | 715.5  | 693.2  | 670.9  | 655.9  | 648.3  | 640.6  | 633.0  | 625.4  |
| 45°    | 640.2  | 618.6  | 597.0  | 582.6  | 575.3  | 568.0  | 560.7  | 553.5  |
| 47.5°  | 566.9  | 545.5  | 524.0  | 510.0  | 503.4  | 496.8  | 490.1  | 483.5  |
| 50°    | 519.8  | 498.8  | 477.9  | 464.1  | 457.8  | 451.4  | 445.1  | 438.6  |
| 52.5°  | 475.3  | 455.0  | 434.9  | 421.8  | 415.9  | 410.0  | 404.1  | 398.2  |
| 55°    | 407.7  | 389.5  | 371.2  | 359.3  | 353.5  | 347.7  | 342.0  | 336.2  |
| 57.5°  | 346.3  | 329.5  | 312.8  | 302.0  | 297.2  | 292.3  | 287.5  | 282.6  |
| 60°    | 303.8  | 288.4  | 272.9  | 262.7  | 257.8  | 253.0  | 248.1  | 243.3  |
| 62.5°  | 267.1  | 252.3  | 237.6  | 228.6  | 225.8  | 222.8  | 219.9  | 217.0  |
| 65°    | 217.1  | 206.8  | 196.4  | 190.8  | 189.9  | 189.0  | 188.2  | 187.3  |
| 67.5°  | 175.3  | 170.6  | 165.8  | 162.9  | 162.0  | 161.0  | 160.1  | 159.1  |
| 70°    | 152.5  | 149.5  | 146.4  | 144.3  | 143.0  | 141.8  | 140.6  | 139.4  |
| 72.5°  | 132.7  | 130.1  | 127.5  | 125.9  | 125.2  | 124.5  | 123.7  | 123.0  |
| 75°    | 105.0  | 103.0  | 100.9  | 99.6   | 99.3   | 99.0   | 98.7   | 98.4   |
| 77.5°  | 79.5   | 78.4   | 77.1   | 76.2   | 75.8   | 75.3   | 74.8   | 74.4   |
| 80°    | 63.1   | 62.0   | 60.7   | 60.1   | 60.1   | 60.1   | 60.1   | 60.1   |
| 82.5°  | 47.7   | 47.0   | 46.3   | 45.9   | 45.9   | 45.9   | 45.9   | 45.9   |
| 85°    | 25.9   | 25.9   | 25.9   | 25.9   | 25.9   | 25.9   | 25.9   | 25.9   |
| 87.5°  | 17.4   | 17.0   | 16.7   | 16.6   | 16.6   | 16.7   | 16.8   | 16.8   |
| 90°    | 45.8   | 45.3   | 44.7   | 44.5   | 44.9   | 45.1   | 45.4   | 45.7   |
| 92.5°  | 43.0   | 43.1   | 43.2   | 43.3   | 43.3   | 43.4   | 43.5   | 43.5   |
| 95°    | 86.1   | 86.1   | 86.1   | 85.7   | 85.2   | 84.5   | 83.9   | 83.4   |
| 97.5°  | 144.6  | 144.6  | 144.6  | 144.6  | 144.5  | 144.5  | 144.5  | 144.4  |
| 100°   | 185.5  | 185.5  | 185.5  | 185.4  | 185.0  | 184.8  | 184.5  | 184.1  |
| 102.5° | 230.1  | 230.3  | 230.6  | 230.5  | 230.2  | 230.0  | 229.6  | 229.3  |
| 105°   | 296.9  | 297.6  | 298.1  | 298.5  | 298.5  | 298.5  | 298.5  | 298.5  |
| 107.5° | 369.1  | 369.3  | 369.5  | 369.0  | 367.7  | 366.2  | 364.9  | 363.5  |
| 110°   | 418.1  | 418.1  | 418.1  | 417.6  | 416.7  | 415.8  | 414.9  | 414.0  |





TEST NUMBER: P331864-940

CATALOG NUMBER: S122RDIW-S1005D1440U940-4F0-1E-UDD-F1

**CANDELA DISTRIBUTION (continued):**

|        | 55°    | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 467.2  | 466.5  | 465.7  | 465.0  | 464.4  | 463.8  | 463.1  | 462.4  |
| 115°   | 542.5  | 542.2  | 541.9  | 541.3  | 540.4  | 539.5  | 538.6  | 537.7  |
| 117.5° | 615.4  | 614.7  | 613.9  | 613.1  | 612.2  | 611.3  | 610.4  | 609.5  |
| 120°   | 664.1  | 664.1  | 664.1  | 663.6  | 662.7  | 661.8  | 660.9  | 660.0  |
| 122.5° | 714.3  | 713.5  | 712.8  | 712.1  | 711.5  | 710.9  | 710.2  | 709.5  |
| 125°   | 788.6  | 787.7  | 786.8  | 786.3  | 786.0  | 785.7  | 785.4  | 785.1  |
| 127.5° | 860.9  | 859.8  | 858.7  | 857.7  | 856.8  | 855.8  | 854.9  | 853.9  |
| 130°   | 910.3  | 909.6  | 909.0  | 908.1  | 907.0  | 905.8  | 904.6  | 903.4  |
| 132.5° | 958.3  | 957.0  | 955.6  | 954.5  | 953.6  | 952.6  | 951.6  | 950.7  |
| 135°   | 1029.1 | 1028.9 | 1028.6 | 1028.0 | 1027.1 | 1026.2 | 1025.3 | 1024.4 |
| 137.5° | 1097.0 | 1096.8 | 1096.5 | 1095.8 | 1094.7 | 1093.4 | 1092.3 | 1091.0 |
| 140°   | 1142.6 | 1142.6 | 1142.6 | 1142.1 | 1140.9 | 1139.7 | 1138.4 | 1137.3 |
| 142.5° | 1184.0 | 1184.3 | 1184.5 | 1184.0 | 1182.9 | 1181.6 | 1180.4 | 1179.2 |
| 145°   | 1246.8 | 1247.1 | 1247.3 | 1246.9 | 1245.7 | 1244.6 | 1243.3 | 1242.2 |
| 147.5° | 1301.8 | 1302.4 | 1303.1 | 1302.9 | 1301.7 | 1300.6 | 1299.5 | 1298.3 |
| 150°   | 1336.7 | 1337.6 | 1338.5 | 1338.5 | 1337.6 | 1336.7 | 1335.8 | 1334.9 |
| 152.5° | 1371.5 | 1372.7 | 1373.9 | 1373.9 | 1372.7 | 1371.5 | 1370.5 | 1369.3 |
| 155°   | 1415.9 | 1417.4 | 1418.8 | 1419.2 | 1418.3 | 1417.4 | 1416.5 | 1415.6 |
| 157.5° | 1456.7 | 1458.7 | 1460.8 | 1461.1 | 1459.6 | 1458.2 | 1456.8 | 1455.4 |
| 160°   | 1481.0 | 1482.7 | 1484.5 | 1484.9 | 1483.6 | 1482.5 | 1481.3 | 1480.1 |
| 162.5° | 1503.0 | 1505.0 | 1507.0 | 1507.3 | 1505.9 | 1504.5 | 1503.1 | 1501.6 |
| 165°   | 1531.3 | 1533.4 | 1535.5 | 1535.8 | 1534.3 | 1532.9 | 1531.3 | 1529.8 |
| 167.5° | 1554.7 | 1556.8 | 1558.9 | 1559.2 | 1557.6 | 1556.0 | 1554.5 | 1552.9 |
| 170°   | 1567.6 | 1569.7 | 1571.8 | 1571.9 | 1570.1 | 1568.3 | 1566.6 | 1564.8 |
| 172.5° | 1577.3 | 1579.4 | 1581.4 | 1581.6 | 1579.8 | 1578.1 | 1576.3 | 1574.5 |
| 175°   | 1587.8 | 1589.8 | 1592.0 | 1592.1 | 1590.3 | 1588.5 | 1586.7 | 1584.9 |
| 177.5° | 1592.7 | 1594.1 | 1595.5 | 1595.5 | 1594.1 | 1592.7 | 1591.2 | 1589.7 |
| 180°   | 1593.0 | 1593.0 | 1593.0 | 1593.0 | 1593.0 | 1593.0 | 1593.0 | 1593.0 |

(END OF REPORT)