

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: P331601

Luminaire Tested: **S122DIW-S1005D970U835-4F0-1E-UDD-F**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P331601  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-2,  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: S122DIW-S1005D970U835-4F0-1E-UDD-F  
Description: DEFINE 2 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE  
DOWNLIGHT 1005 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER  
UPLIGHT 970 LUMENS PER FOOT, NO LENS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7928.1 lumens  
Efficiency: N/A  
Efficacy: 117.6 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.3  
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')  
CIE Type: General Diffuse

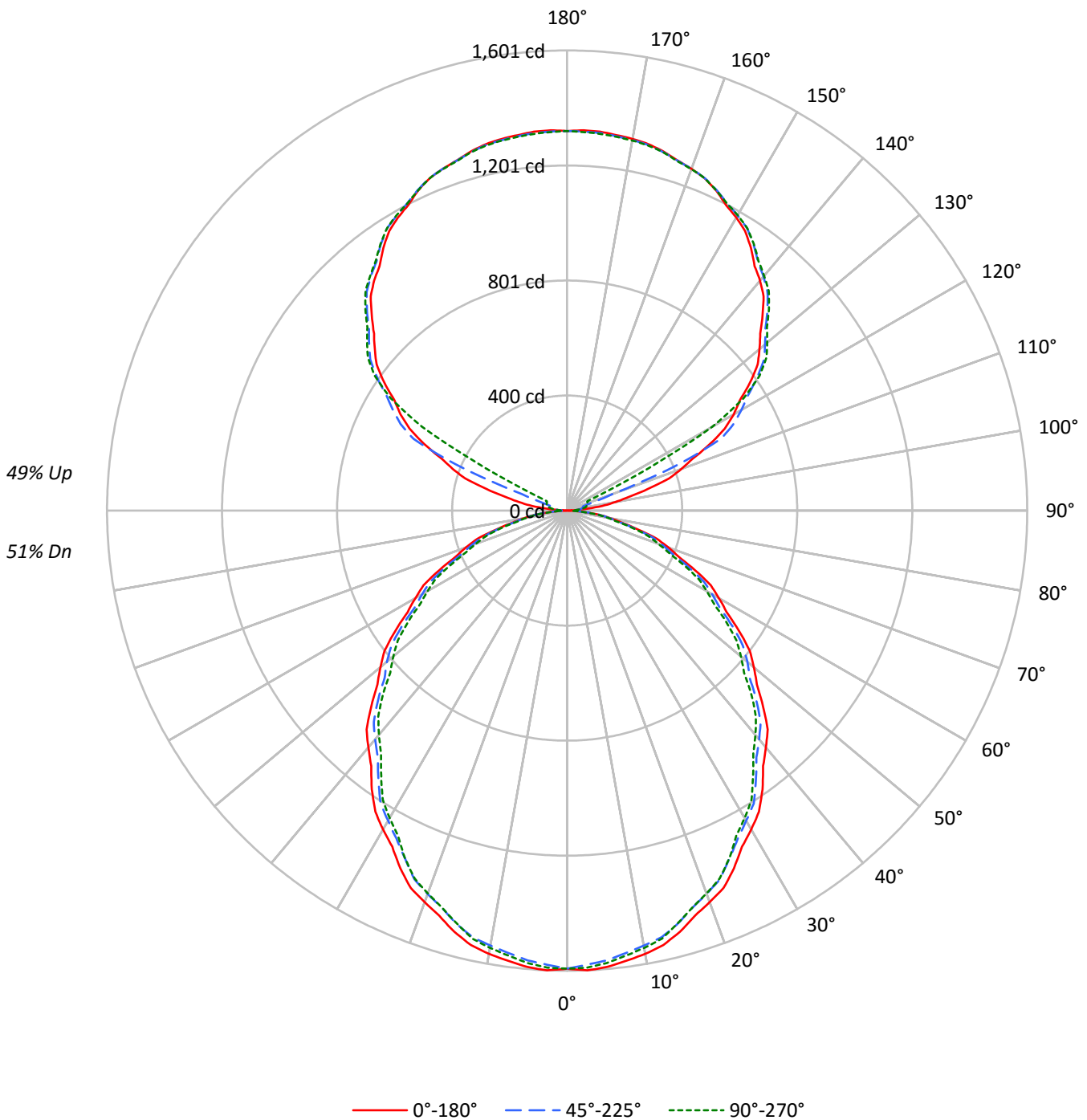
Input Watts (W): 67.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





TEST NUMBER: P331601

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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

|     |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |    |  |  |  |  |  |  |  |  |    |   |
|-----|-----|-----|-----|-----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|--|--|--|----|--|--|--|--|--|--|--|--|----|---|
| RF  | 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   | 107 | 107 | 107 | 107 | 99 | 99 | 99 | 99 | 84 | 84 | 84 | 70 | 70 | 70 | 57 | 57 | 57 | 51 | 51 | 51 | 51 | 51 | 51 | 51 |  |  |  |    |  |  |  |  |  |  |  |  |    |   |
| 1   | 98  | 94  | 90  | 86  | 90 | 87 | 83 | 80 | 74 | 71 | 69 | 62 | 60 | 58 | 51 | 49 | 48 | 43 | 43 | 43 | 43 | 43 | 43 | 43 |  |  |  |    |  |  |  |  |  |  |  |  |    |   |
| 2   | 89  | 82  | 76  | 70  | 82 | 76 | 70 | 66 | 65 | 61 | 57 | 54 | 51 | 49 | 44 | 42 | 41 | 36 | 36 | 36 | 36 | 36 | 36 | 36 |  |  |  |    |  |  |  |  |  |  |  |  |    |   |
| 3   | 81  | 72  | 65  | 59  | 75 | 67 | 60 | 55 | 57 | 52 | 48 | 48 | 44 | 41 | 39 | 37 | 35 | 31 | 31 | 31 | 31 | 31 | 31 | 31 |  |  |  |    |  |  |  |  |  |  |  |  |    |   |
| 4   | 75  | 64  | 56  | 50  | 69 | 59 | 52 | 47 | 51 | 45 | 41 | 43 | 39 | 35 | 35 | 32 | 30 | 26 | 26 | 26 | 26 | 26 | 26 | 26 |  |  |  |    |  |  |  |  |  |  |  |  |    |   |
| 5   | 68  | 57  | 49  | 43  | 63 | 53 | 46 | 40 | 45 | 40 | 35 | 38 | 34 | 31 | 32 | 29 | 26 | 23 | 23 | 23 | 23 | 23 | 23 | 23 |  |  |  |    |  |  |  |  |  |  |  |  |    |   |
| 6   | 63  | 51  | 43  | 37  | 58 | 47 | 40 | 35 | 41 | 35 | 31 | 35 | 30 | 27 | 29 | 26 | 23 | 20 | 20 | 20 | 20 | 20 | 20 | 20 |  |  |  |    |  |  |  |  |  |  |  |  |    |   |
| 7   | 58  | 46  | 38  | 32  | 54 | 43 | 36 | 31 | 37 | 31 | 27 | 31 | 27 | 24 | 26 | 23 | 20 | 18 | 18 | 18 | 18 | 18 | 18 | 18 |  |  |  |    |  |  |  |  |  |  |  |  |    |   |
| 8   | 54  | 42  | 34  | 29  | 50 | 39 | 32 | 27 | 34 | 28 | 24 | 29 | 24 | 21 | 24 | 21 | 18 | 16 | 16 | 16 | 16 | 16 | 16 | 16 |  |  |  |    |  |  |  |  |  |  |  |  |    |   |
| 9   | 50  | 38  | 31  | 26  | 47 | 36 | 29 | 24 | 31 | 25 | 22 | 27 | 22 | 19 | 22 | 19 | 17 | 14 | 14 | 14 | 14 | 14 | 14 | 14 |  |  |  |    |  |  |  |  |  |  |  |  |    |   |
| 10  | 47  | 35  | 28  | 23  | 44 | 33 | 26 | 22 | 29 | 23 | 19 | 25 | 20 | 17 | 21 | 17 | 15 | 13 | 13 | 13 | 13 | 13 | 13 | 13 |  |  |  |    |  |  |  |  |  |  |  |  |    |   |

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

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 25733 | 25733 | 25733 |
| 5°  | 25832 | 25459 | 25608 |
| 10° | 25678 | 25201 | 25327 |
| 15° | 25361 | 24874 | 24849 |
| 20° | 24911 | 24383 | 24357 |
| 25° | 24464 | 23779 | 23779 |
| 30° | 23886 | 23228 | 23029 |
| 35° | 23349 | 22565 | 22231 |
| 40° | 22675 | 21901 | 21479 |
| 45° | 22012 | 21240 | 20717 |
| 50° | 21288 | 20557 | 19826 |
| 55° | 20535 | 19758 | 19023 |
| 60° | 19695 | 18807 | 18112 |
| 65° | 18793 | 17857 | 17039 |
| 70° | 17651 | 16711 | 15918 |
| 75° | 16064 | 15390 | 15009 |
| 80° | 14254 | 13826 | 13110 |
| 85° | 11634 | 11078 | 9930  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 149.9  | 1.9       |
| 10°-20°   | 421.7  | 5.3       |
| 20°-30°   | 619.8  | 7.8       |
| 30°-40°   | 720.0  | 9.1       |
| 40°-50°   | 719.2  | 9.1       |
| 50°-60°   | 627.2  | 7.9       |
| 60°-70°   | 463.8  | 5.8       |
| 70°-80°   | 262.7  | 3.3       |
| 80°-90°   | 73.9   | 0.9       |
| 90°-100°  | 44.1   | 0.6       |
| 100°-110° | 161.5  | 2.0       |
| 110°-120° | 431.8  | 5.4       |
| 120°-130° | 712.8  | 9.0       |
| 130°-140° | 758.0  | 9.6       |
| 140°-150° | 704.6  | 8.9       |
| 150°-160° | 566.5  | 7.1       |
| 160°-170° | 365.0  | 4.6       |
| 170°-180° | 125.6  | 1.6       |
| 0°-30°    | 1191.4 | 15.0      |
| 0°-40°    | 1911.4 | 24.1      |
| 0°-60°    | 3257.9 | 41.1      |
| 0°-90°    | 4058.2 | 51.2      |
| 90°-120°  | 637.4  | 8.0       |
| 90°-150°  | 2812.8 | 35.5      |
| 90°-180°  | 3870.0 | 48.8      |
| 0°-180°   | 7928.1 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 1594 | 1594  | 1594 | 1594  | 1594 |      |
| 5°   | 1594 | 1587  | 1571 | 1582  | 1580 | 151  |
| 15°  | 1517 | 1507  | 1488 | 1493  | 1487 | 427  |
| 25°  | 1373 | 1360  | 1335 | 1338  | 1335 | 631  |
| 35°  | 1185 | 1169  | 1145 | 1136  | 1128 | 739  |
| 45°  | 964  | 953   | 930  | 914   | 907  | 744  |
| 55°  | 730  | 720   | 702  | 684   | 676  | 652  |
| 65°  | 492  | 482   | 467  | 454   | 446  | 486  |
| 75°  | 258  | 254   | 247  | 238   | 241  | 275  |
| 85°  | 63   | 61    | 60   | 55    | 54   | 72   |
| 90°  | 1    | 11    | 19   | 24    | 26   | 6    |
| 95°  | 62   | 33    | 37   | 42    | 41   | 76   |
| 105° | 290  | 303   | 58   | 68    | 73   | 310  |
| 115° | 549  | 566   | 590  | 168   | 78   | 541  |
| 125° | 777  | 790   | 807  | 814   | 817  | 692  |
| 135° | 961  | 976   | 985  | 994   | 993  | 742  |
| 145° | 1115 | 1115  | 1130 | 1136  | 1132 | 697  |
| 155° | 1228 | 1220  | 1231 | 1236  | 1229 | 566  |
| 165° | 1294 | 1289  | 1291 | 1297  | 1291 | 365  |
| 175° | 1323 | 1317  | 1319 | 1324  | 1316 | 126  |
| 180° | 1320 | 1320  | 1320 | 1320  | 1320 |      |



TEST NUMBER: P331601

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**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1593.8 | 1593.8 | 1593.8 | 1593.8 | 1593.8 | 1593.8 | 1593.8 | 1593.8 | 1593.8 | 1593.8 | 1593.8 |
| 2.5°   | 1601.2 | 1599.8 | 1598.5 | 1597.1 | 1595.7 | 1593.6 | 1590.6 | 1587.6 | 1584.6 | 1581.6 | 1584.3 |
| 5°     | 1593.8 | 1592.5 | 1591.1 | 1589.7 | 1588.4 | 1585.8 | 1582.1 | 1578.3 | 1574.6 | 1570.8 | 1573.6 |
| 7.5°   | 1579.7 | 1577.6 | 1575.5 | 1573.4 | 1571.3 | 1568.3 | 1564.5 | 1560.7 | 1556.9 | 1553.1 | 1555.8 |
| 10°    | 1566.2 | 1563.9 | 1561.5 | 1559.1 | 1556.7 | 1553.5 | 1549.4 | 1545.3 | 1541.2 | 1537.1 | 1539.9 |
| 12.5°  | 1547.9 | 1545.7 | 1543.6 | 1541.5 | 1539.4 | 1536.3 | 1532.2 | 1528.1 | 1524.1 | 1520.0 | 1521.9 |
| 15°    | 1517.2 | 1515.2 | 1513.1 | 1511.1 | 1509.0 | 1505.8 | 1501.4 | 1496.9 | 1492.5 | 1488.1 | 1489.5 |
| 17.5°  | 1478.0 | 1475.9 | 1473.9 | 1471.8 | 1469.8 | 1466.5 | 1462.0 | 1457.5 | 1453.0 | 1448.6 | 1450.1 |
| 20°    | 1449.8 | 1447.7 | 1445.7 | 1443.6 | 1441.6 | 1438.2 | 1433.4 | 1428.7 | 1423.9 | 1419.1 | 1420.1 |
| 22.5°  | 1421.6 | 1418.7 | 1415.9 | 1413.0 | 1410.1 | 1406.5 | 1402.0 | 1397.5 | 1393.0 | 1388.5 | 1388.7 |
| 25°    | 1373.2 | 1370.4 | 1367.7 | 1365.0 | 1362.3 | 1358.0 | 1352.2 | 1346.4 | 1340.6 | 1334.8 | 1335.5 |
| 27.5°  | 1318.0 | 1315.5 | 1313.1 | 1310.6 | 1308.2 | 1304.7 | 1300.1 | 1295.5 | 1291.0 | 1286.4 | 1285.4 |
| 30°    | 1281.2 | 1278.5 | 1275.7 | 1273.0 | 1270.3 | 1266.4 | 1261.3 | 1256.2 | 1251.1 | 1245.9 | 1244.9 |
| 32.5°  | 1242.0 | 1239.8 | 1237.6 | 1235.4 | 1233.2 | 1229.5 | 1224.1 | 1218.7 | 1213.3 | 1207.9 | 1206.1 |
| 35°    | 1184.6 | 1181.2 | 1177.8 | 1174.4 | 1171.0 | 1166.6 | 1161.1 | 1155.7 | 1150.3 | 1144.8 | 1142.8 |
| 37.5°  | 1120.0 | 1117.0 | 1114.0 | 1111.0 | 1108.0 | 1103.8 | 1098.3 | 1092.9 | 1087.4 | 1082.0 | 1079.4 |
| 40°    | 1075.8 | 1073.1 | 1070.4 | 1067.7 | 1064.9 | 1060.9 | 1055.4 | 1050.0 | 1044.5 | 1039.1 | 1036.0 |
| 42.5°  | 1032.9 | 1030.2 | 1027.5 | 1024.8 | 1022.0 | 1017.9 | 1012.5 | 1007.0 | 1001.6 | 996.1  | 992.8  |
| 45°    | 964.0  | 961.6  | 959.2  | 956.8  | 954.4  | 950.7  | 945.6  | 940.5  | 935.4  | 930.2  | 926.5  |
| 47.5°  | 895.3  | 893.1  | 890.8  | 888.6  | 886.3  | 882.5  | 877.2  | 871.9  | 866.6  | 861.3  | 857.3  |
| 50°    | 847.5  | 845.8  | 844.1  | 842.4  | 840.7  | 837.4  | 832.7  | 827.9  | 823.1  | 818.4  | 813.6  |
| 52.5°  | 800.9  | 798.7  | 796.4  | 794.2  | 791.9  | 788.5  | 784.0  | 779.5  | 775.1  | 770.6  | 766.6  |
| 55°    | 729.5  | 727.4  | 725.4  | 723.4  | 721.3  | 718.2  | 714.2  | 710.1  | 706.0  | 701.9  | 697.8  |
| 57.5°  | 657.8  | 656.1  | 654.5  | 652.9  | 651.2  | 648.2  | 643.7  | 639.2  | 634.7  | 630.2  | 626.2  |
| 60°    | 609.9  | 608.6  | 607.2  | 605.9  | 604.5  | 601.4  | 596.7  | 591.9  | 587.1  | 582.4  | 578.6  |
| 62.5°  | 563.4  | 561.2  | 559.0  | 556.8  | 554.6  | 551.7  | 548.0  | 544.4  | 540.7  | 537.0  | 533.5  |
| 65°    | 491.9  | 489.9  | 487.9  | 485.8  | 483.8  | 481.0  | 477.6  | 474.2  | 470.8  | 467.4  | 464.4  |
| 67.5°  | 419.3  | 417.7  | 416.0  | 414.4  | 412.8  | 410.4  | 407.3  | 404.3  | 401.2  | 398.2  | 395.8  |
| 70°    | 373.9  | 372.6  | 371.2  | 369.9  | 368.5  | 366.3  | 363.2  | 360.1  | 357.1  | 354.0  | 351.6  |
| 72.5°  | 327.3  | 326.0  | 324.6  | 323.3  | 321.9  | 320.2  | 318.3  | 316.3  | 314.3  | 312.3  | 309.9  |
| 75°    | 257.5  | 256.8  | 256.1  | 255.4  | 254.7  | 253.5  | 251.8  | 250.1  | 248.4  | 246.7  | 244.7  |
| 77.5°  | 194.9  | 193.8  | 192.6  | 191.5  | 190.3  | 189.4  | 188.7  | 188.0  | 187.3  | 186.7  | 185.6  |
| 80°    | 153.3  | 152.9  | 152.6  | 152.2  | 151.9  | 151.4  | 150.7  | 150.0  | 149.3  | 148.7  | 147.6  |
| 82.5°  | 114.0  | 114.0  | 113.9  | 113.8  | 113.7  | 113.5  | 113.1  | 112.7  | 112.3  | 111.9  | 110.6  |
| 85°    | 62.8   | 62.5   | 62.2   | 61.8   | 61.5   | 61.1   | 60.8   | 60.4   | 60.1   | 59.8   | 58.7   |
| 87.5°  | 22.3   | 22.2   | 22.1   | 22.0   | 21.9   | 21.8   | 21.6   | 21.4   | 21.2   | 21.0   | 20.4   |
| 90°    | 1.0    | 3.3    | 5.6    | 8.0    | 10.3   | 12.3   | 14.0   | 15.7   | 17.4   | 19.1   | 20.2   |
| 92.5°  | 19.3   | 19.1   | 18.9   | 18.7   | 18.5   | 18.8   | 19.6   | 20.5   | 21.3   | 22.2   | 22.7   |
| 95°    | 62.1   | 55.1   | 48.1   | 41.1   | 34.1   | 31.3   | 32.8   | 34.3   | 35.8   | 37.3   | 38.3   |
| 97.5°  | 123.3  | 103.5  | 83.8   | 64.0   | 44.3   | 36.1   | 39.6   | 43.0   | 46.4   | 49.9   | 50.7   |
| 100°   | 169.1  | 140.0  | 110.9  | 81.9   | 52.8   | 40.0   | 43.6   | 47.2   | 50.9   | 54.5   | 56.2   |
| 102.5° | 219.6  | 213.4  | 207.3  | 201.1  | 194.9  | 176.8  | 146.6  | 116.4  | 86.2   | 56.0   | 58.2   |
| 105°   | 290.5  | 296.9  | 303.2  | 309.6  | 316.0  | 290.2  | 232.2  | 174.2  | 116.3  | 58.3   | 60.6   |
| 107.5° | 371.3  | 376.5  | 381.6  | 386.7  | 391.9  | 359.7  | 290.2  | 220.6  | 151.1  | 81.6   | 79.2   |
| 110°   | 423.3  | 427.8  | 432.2  | 436.7  | 441.1  | 412.7  | 351.3  | 290.0  | 228.6  | 167.2  | 146.0  |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 472.2  | 476.2  | 480.1  | 484.1  | 488.0  | 482.4  | 467.3  | 452.1  | 436.9  | 421.8  | 344.3  |
| 115°   | 549.4  | 553.0  | 556.7  | 560.3  | 563.9  | 568.3  | 573.6  | 578.9  | 584.3  | 589.6  | 491.2  |
| 117.5° | 618.4  | 622.5  | 626.5  | 630.5  | 634.6  | 638.4  | 642.1  | 645.7  | 649.4  | 653.0  | 629.2  |
| 120°   | 668.9  | 672.1  | 675.2  | 678.4  | 681.6  | 685.1  | 688.9  | 692.8  | 696.6  | 700.4  | 703.0  |
| 122.5° | 711.7  | 715.0  | 718.4  | 721.7  | 725.1  | 728.9  | 733.0  | 737.2  | 741.3  | 745.5  | 747.0  |
| 125°   | 776.8  | 779.6  | 782.4  | 785.1  | 787.9  | 791.3  | 795.3  | 799.4  | 803.4  | 807.4  | 808.9  |
| 127.5° | 835.9  | 839.0  | 842.0  | 845.1  | 848.1  | 851.2  | 854.2  | 857.2  | 860.2  | 863.2  | 865.4  |
| 130°   | 873.4  | 876.8  | 880.2  | 883.5  | 886.9  | 889.8  | 892.1  | 894.5  | 896.8  | 899.2  | 901.5  |
| 132.5° | 911.6  | 914.5  | 917.4  | 920.2  | 923.1  | 925.7  | 928.1  | 930.4  | 932.7  | 935.1  | 937.1  |
| 135°   | 961.3  | 964.7  | 968.1  | 971.5  | 974.9  | 977.5  | 979.4  | 981.3  | 983.2  | 985.2  | 987.3  |
| 137.5° | 1011.5 | 1013.9 | 1016.3 | 1018.7 | 1021.0 | 1023.3 | 1025.5 | 1027.6 | 1029.8 | 1032.0 | 1034.1 |
| 140°   | 1044.4 | 1046.1 | 1047.8 | 1049.5 | 1051.2 | 1053.2 | 1055.5 | 1057.9 | 1060.2 | 1062.6 | 1064.5 |
| 142.5° | 1071.9 | 1073.4 | 1075.0 | 1076.5 | 1078.0 | 1080.1 | 1082.8 | 1085.5 | 1088.2 | 1090.8 | 1092.6 |
| 145°   | 1115.1 | 1114.9 | 1114.7 | 1114.5 | 1114.3 | 1116.0 | 1119.6 | 1123.2 | 1126.8 | 1130.4 | 1131.9 |
| 147.5° | 1152.8 | 1151.9 | 1151.1 | 1150.3 | 1149.5 | 1150.9 | 1154.5 | 1158.0 | 1161.6 | 1165.2 | 1166.3 |
| 150°   | 1177.2 | 1175.7 | 1174.2 | 1172.8 | 1171.3 | 1172.2 | 1175.6 | 1179.0 | 1182.4 | 1185.8 | 1187.1 |
| 152.5° | 1197.9 | 1196.2 | 1194.5 | 1192.9 | 1191.2 | 1192.0 | 1195.2 | 1198.5 | 1201.7 | 1204.9 | 1206.2 |
| 155°   | 1227.9 | 1225.9 | 1224.0 | 1222.1 | 1220.2 | 1220.5 | 1223.1 | 1225.6 | 1228.2 | 1230.7 | 1232.0 |
| 157.5° | 1251.4 | 1249.8 | 1248.1 | 1246.5 | 1244.9 | 1245.0 | 1246.8 | 1248.6 | 1250.3 | 1252.1 | 1253.6 |
| 160°   | 1265.1 | 1263.9 | 1262.6 | 1261.3 | 1260.0 | 1260.0 | 1261.3 | 1262.6 | 1263.9 | 1265.1 | 1266.4 |
| 162.5° | 1277.4 | 1276.1 | 1274.8 | 1273.5 | 1272.3 | 1272.2 | 1273.3 | 1274.4 | 1275.5 | 1276.6 | 1278.0 |
| 165°   | 1293.8 | 1292.5 | 1291.2 | 1290.0 | 1288.7 | 1288.4 | 1289.0 | 1289.6 | 1290.3 | 1290.9 | 1292.4 |
| 167.5° | 1306.0 | 1304.7 | 1303.5 | 1302.2 | 1300.9 | 1300.6 | 1301.2 | 1301.8 | 1302.4 | 1303.0 | 1304.4 |
| 170°   | 1312.9 | 1311.6 | 1310.4 | 1309.1 | 1307.8 | 1307.4 | 1307.8 | 1308.2 | 1308.7 | 1309.1 | 1310.6 |
| 172.5° | 1317.5 | 1316.2 | 1314.9 | 1313.7 | 1312.4 | 1312.0 | 1312.4 | 1312.8 | 1313.2 | 1313.7 | 1315.2 |
| 175°   | 1323.4 | 1321.9 | 1320.4 | 1319.0 | 1317.5 | 1316.9 | 1317.4 | 1317.8 | 1318.2 | 1318.6 | 1320.1 |
| 177.5° | 1324.4 | 1323.2 | 1322.0 | 1320.8 | 1319.6 | 1319.1 | 1319.3 | 1319.4 | 1319.6 | 1319.8 | 1321.0 |
| 180°   | 1320.5 | 1320.5 | 1320.5 | 1320.5 | 1320.5 | 1320.5 | 1320.5 | 1320.5 | 1320.5 | 1320.5 | 1320.5 |



TEST NUMBER: P331601

CATALOG NUMBER: S122DIW-S1005D970U835-4F0-1E-UDD-F

**CANDELA DISTRIBUTION (continued):**

|        | 55°    | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1593.8 | 1593.8 | 1593.8 | 1593.8 | 1593.8 | 1593.8 | 1593.8 | 1593.8 |
| 2.5°   | 1587.0 | 1589.7 | 1592.5 | 1593.6 | 1593.0 | 1592.5 | 1591.9 | 1591.4 |
| 5°     | 1576.3 | 1579.0 | 1581.7 | 1582.8 | 1582.1 | 1581.4 | 1580.7 | 1580.0 |
| 7.5°   | 1558.5 | 1561.2 | 1564.0 | 1565.0 | 1564.2 | 1563.5 | 1562.7 | 1562.0 |
| 10°    | 1542.6 | 1545.3 | 1548.0 | 1548.9 | 1547.9 | 1546.8 | 1545.8 | 1544.8 |
| 12.5°  | 1523.8 | 1525.7 | 1527.6 | 1528.2 | 1527.4 | 1526.7 | 1525.9 | 1525.2 |
| 15°    | 1490.8 | 1492.2 | 1493.5 | 1493.4 | 1491.7 | 1490.0 | 1488.3 | 1486.6 |
| 17.5°  | 1451.7 | 1453.3 | 1454.8 | 1454.8 | 1453.1 | 1451.5 | 1449.9 | 1448.2 |
| 20°    | 1421.2 | 1422.2 | 1423.2 | 1423.0 | 1421.7 | 1420.3 | 1419.0 | 1417.6 |
| 22.5°  | 1388.9 | 1389.1 | 1389.3 | 1389.0 | 1388.2 | 1387.4 | 1386.5 | 1385.7 |
| 25°    | 1336.2 | 1336.9 | 1337.6 | 1337.6 | 1336.9 | 1336.2 | 1335.5 | 1334.8 |
| 27.5°  | 1284.4 | 1283.3 | 1282.3 | 1281.0 | 1279.4 | 1277.7 | 1276.1 | 1274.5 |
| 30°    | 1243.9 | 1242.9 | 1241.9 | 1240.7 | 1239.3 | 1237.9 | 1236.6 | 1235.2 |
| 32.5°  | 1204.3 | 1202.4 | 1200.6 | 1199.0 | 1197.6 | 1196.3 | 1194.9 | 1193.5 |
| 35°    | 1140.7 | 1138.7 | 1136.6 | 1134.8 | 1133.1 | 1131.4 | 1129.6 | 1127.9 |
| 37.5°  | 1076.9 | 1074.4 | 1071.9 | 1069.8 | 1068.2 | 1066.5 | 1064.9 | 1063.3 |
| 40°    | 1032.9 | 1029.9 | 1026.8 | 1024.6 | 1023.2 | 1021.9 | 1020.5 | 1019.1 |
| 42.5°  | 989.5  | 986.1  | 982.8  | 980.2  | 978.3  | 976.4  | 974.5  | 972.5  |
| 45°    | 922.8  | 919.0  | 915.3  | 912.7  | 911.3  | 910.0  | 908.6  | 907.3  |
| 47.5°  | 853.4  | 849.4  | 845.5  | 842.5  | 840.5  | 838.6  | 836.6  | 834.6  |
| 50°    | 808.8  | 804.1  | 799.3  | 796.1  | 794.4  | 792.7  | 791.0  | 789.3  |
| 52.5°  | 762.7  | 758.7  | 754.8  | 751.7  | 749.4  | 747.2  | 744.9  | 742.7  |
| 55°    | 693.7  | 689.6  | 685.6  | 682.7  | 681.0  | 679.3  | 677.6  | 675.8  |
| 57.5°  | 622.1  | 618.1  | 614.1  | 611.4  | 610.2  | 608.9  | 607.6  | 606.3  |
| 60°    | 574.9  | 571.1  | 567.4  | 565.0  | 564.0  | 563.0  | 561.9  | 560.9  |
| 62.5°  | 530.1  | 526.6  | 523.1  | 520.7  | 519.4  | 518.1  | 516.8  | 515.5  |
| 65°    | 461.3  | 458.2  | 455.2  | 452.8  | 451.1  | 449.4  | 447.7  | 446.0  |
| 67.5°  | 393.4  | 391.0  | 388.6  | 386.7  | 385.4  | 384.0  | 382.7  | 381.3  |
| 70°    | 349.2  | 346.9  | 344.5  | 342.6  | 341.2  | 339.9  | 338.5  | 337.2  |
| 72.5°  | 307.6  | 305.2  | 302.8  | 301.1  | 300.0  | 298.9  | 297.8  | 296.7  |
| 75°    | 242.7  | 240.6  | 238.6  | 237.9  | 238.6  | 239.2  | 239.9  | 240.6  |
| 77.5°  | 184.6  | 183.6  | 182.6  | 181.6  | 180.6  | 179.7  | 178.7  | 177.8  |
| 80°    | 146.6  | 145.6  | 144.6  | 143.7  | 143.0  | 142.4  | 141.7  | 141.0  |
| 82.5°  | 109.3  | 108.0  | 106.7  | 106.0  | 105.8  | 105.7  | 105.6  | 105.4  |
| 85°    | 57.7   | 56.7   | 55.7   | 55.0   | 54.7   | 54.3   | 54.0   | 53.6   |
| 87.5°  | 19.8   | 19.2   | 18.6   | 18.2   | 18.0   | 17.8   | 17.6   | 17.4   |
| 90°    | 21.2   | 22.3   | 23.4   | 24.1   | 24.5   | 24.9   | 25.4   | 25.8   |
| 92.5°  | 23.3   | 23.8   | 24.4   | 24.8   | 25.0   | 25.3   | 25.5   | 25.8   |
| 95°    | 39.4   | 40.5   | 41.5   | 41.9   | 41.7   | 41.5   | 41.3   | 41.1   |
| 97.5°  | 51.6   | 52.4   | 53.3   | 53.8   | 54.1   | 54.3   | 54.6   | 54.8   |
| 100°   | 57.9   | 59.6   | 61.3   | 62.3   | 62.7   | 63.2   | 63.6   | 64.0   |
| 102.5° | 60.4   | 62.6   | 64.8   | 66.2   | 66.8   | 67.4   | 68.0   | 68.6   |
| 105°   | 63.0   | 65.3   | 67.6   | 69.2   | 70.1   | 70.9   | 71.8   | 72.6   |
| 107.5° | 76.8   | 74.5   | 72.1   | 71.3   | 72.2   | 73.0   | 73.9   | 74.7   |
| 110°   | 124.7  | 103.5  | 82.3   | 72.1   | 72.9   | 73.8   | 74.6   | 75.5   |





TEST NUMBER: P331601

CATALOG NUMBER: S122DIW-S1005D970U835-4F0-1E-UDD-F

**CANDELA DISTRIBUTION (continued):**

|        | 55°    | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 266.8  | 189.4  | 111.9  | 73.5   | 74.2   | 74.9   | 75.6   | 76.3   |
| 115°   | 392.9  | 294.6  | 196.3  | 139.5  | 124.2  | 108.9  | 93.6   | 78.4   |
| 117.5° | 605.4  | 581.7  | 557.9  | 520.9  | 470.6  | 420.4  | 370.2  | 319.9  |
| 120°   | 705.5  | 708.0  | 710.6  | 697.5  | 668.9  | 640.2  | 611.5  | 582.9  |
| 122.5° | 748.6  | 750.1  | 751.6  | 749.6  | 744.0  | 738.5  | 732.9  | 727.4  |
| 125°   | 810.4  | 811.9  | 813.4  | 814.4  | 815.1  | 815.7  | 816.3  | 817.0  |
| 127.5° | 867.6  | 869.7  | 871.9  | 873.0  | 873.2  | 873.3  | 873.4  | 873.5  |
| 130°   | 903.8  | 906.2  | 908.5  | 909.6  | 909.3  | 909.1  | 908.9  | 908.7  |
| 132.5° | 939.1  | 941.1  | 943.1  | 944.0  | 943.7  | 943.5  | 943.3  | 943.1  |
| 135°   | 989.4  | 991.5  | 993.6  | 994.5  | 994.1  | 993.6  | 993.2  | 992.8  |
| 137.5° | 1036.1 | 1038.2 | 1040.3 | 1041.0 | 1040.3 | 1039.5 | 1038.8 | 1038.1 |
| 140°   | 1066.4 | 1068.3 | 1070.2 | 1070.6 | 1069.6 | 1068.5 | 1067.4 | 1066.4 |
| 142.5° | 1094.3 | 1096.1 | 1097.8 | 1098.1 | 1097.1 | 1096.0 | 1095.0 | 1093.9 |
| 145°   | 1133.4 | 1134.9 | 1136.3 | 1136.6 | 1135.5 | 1134.4 | 1133.4 | 1132.3 |
| 147.5° | 1167.4 | 1168.5 | 1169.6 | 1169.7 | 1168.8 | 1167.9 | 1167.0 | 1166.1 |
| 150°   | 1188.4 | 1189.6 | 1190.9 | 1191.0 | 1190.0 | 1188.9 | 1187.8 | 1186.8 |
| 152.5° | 1207.5 | 1208.7 | 1210.0 | 1210.0 | 1208.6 | 1207.2 | 1205.8 | 1204.4 |
| 155°   | 1233.3 | 1234.5 | 1235.8 | 1235.6 | 1233.9 | 1232.2 | 1230.5 | 1228.8 |
| 157.5° | 1255.0 | 1256.5 | 1257.9 | 1257.8 | 1256.1 | 1254.5 | 1252.8 | 1251.2 |
| 160°   | 1267.7 | 1268.9 | 1270.2 | 1270.1 | 1268.6 | 1267.1 | 1265.7 | 1264.2 |
| 162.5° | 1279.5 | 1280.9 | 1282.4 | 1282.2 | 1280.3 | 1278.5 | 1276.7 | 1274.9 |
| 165°   | 1293.9 | 1295.4 | 1296.9 | 1296.9 | 1295.4 | 1293.9 | 1292.4 | 1290.9 |
| 167.5° | 1305.9 | 1307.4 | 1308.9 | 1308.7 | 1306.8 | 1304.9 | 1303.0 | 1301.1 |
| 170°   | 1312.1 | 1313.5 | 1315.0 | 1314.8 | 1312.9 | 1311.0 | 1309.1 | 1307.2 |
| 172.5° | 1316.6 | 1318.1 | 1319.6 | 1319.4 | 1317.5 | 1315.6 | 1313.7 | 1311.8 |
| 175°   | 1321.6 | 1323.1 | 1324.6 | 1324.3 | 1322.1 | 1320.0 | 1317.9 | 1315.8 |
| 177.5° | 1322.2 | 1323.3 | 1324.5 | 1324.4 | 1322.8 | 1321.3 | 1319.8 | 1318.3 |
| 180°   | 1320.5 | 1320.5 | 1320.5 | 1320.5 | 1320.5 | 1320.5 | 1320.5 | 1320.5 |

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