

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: STREETWORKS

Report Number: P240261

Luminaire Tested: **UTLD-AF24-100-D-U-SL3-FP-7030**

Issue Date: 5/28/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P240261  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-27)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 5/28/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: UTLD-AF24-100-D-U-SL3-FP-7030  
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE  
(1) 70 CRI, 3000K, 1200mA LIGHT ENGINE WITH 24 LEDS AND TYPE III SPILL  
LIGHT ELIMINATOR OPTICS AND FROSTED LENS PANELS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6867 lumens  
Efficiency: N/A  
Efficacy: 71.5 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 1.21' x L: 1.21' x H: 0.96')  
IES Classification: Type IV - Short - Non-Cutoff  
BUG Rating: B2 - U4 - G4

Input Watts (W): 96  
Input Voltage (V): NR  
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: 28.75 FT



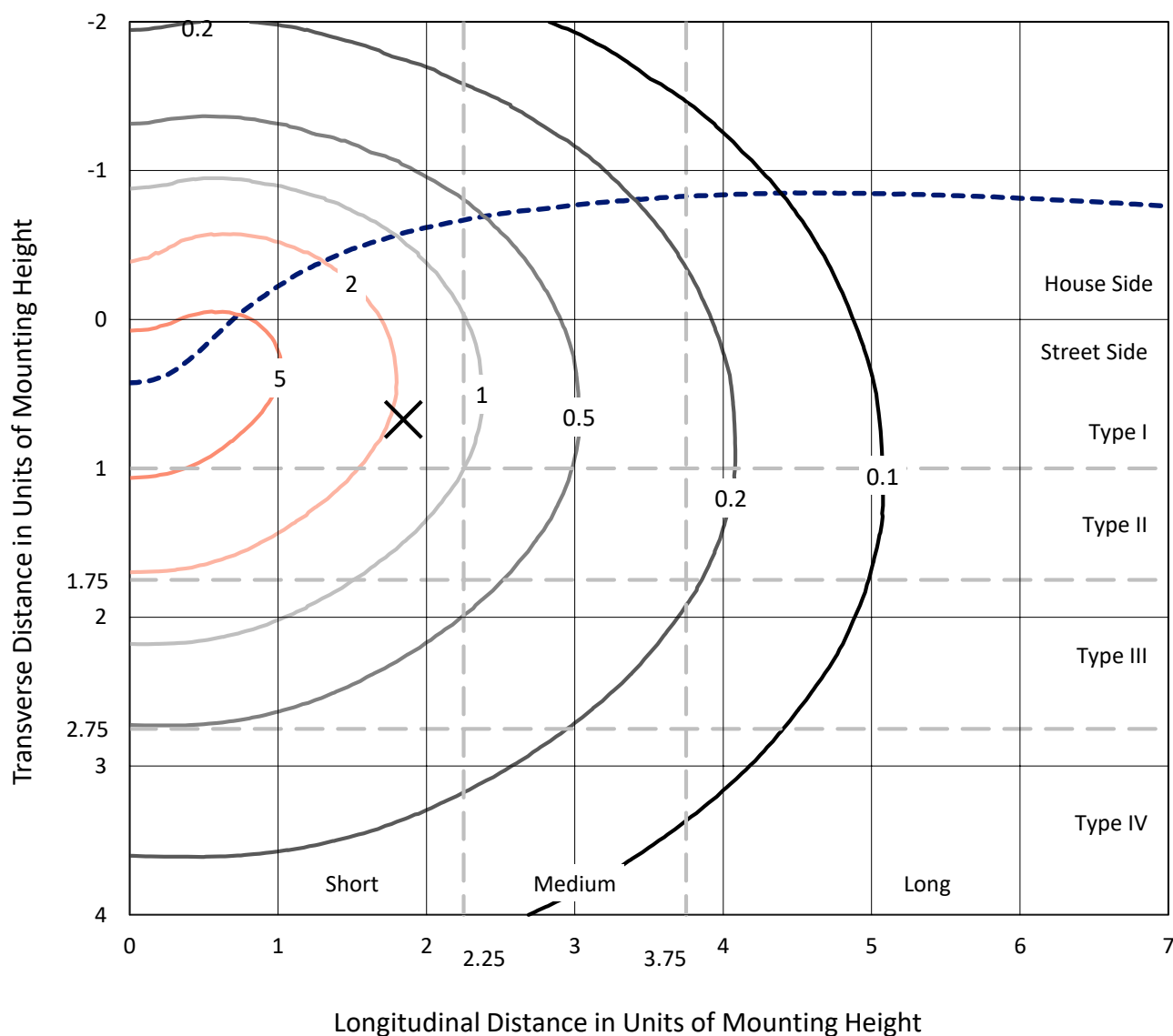
REPORT NUMBER: P240261

CATALOG NUMBER: UTLD-AF24-100-D-U-SL3-FP-7030

## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

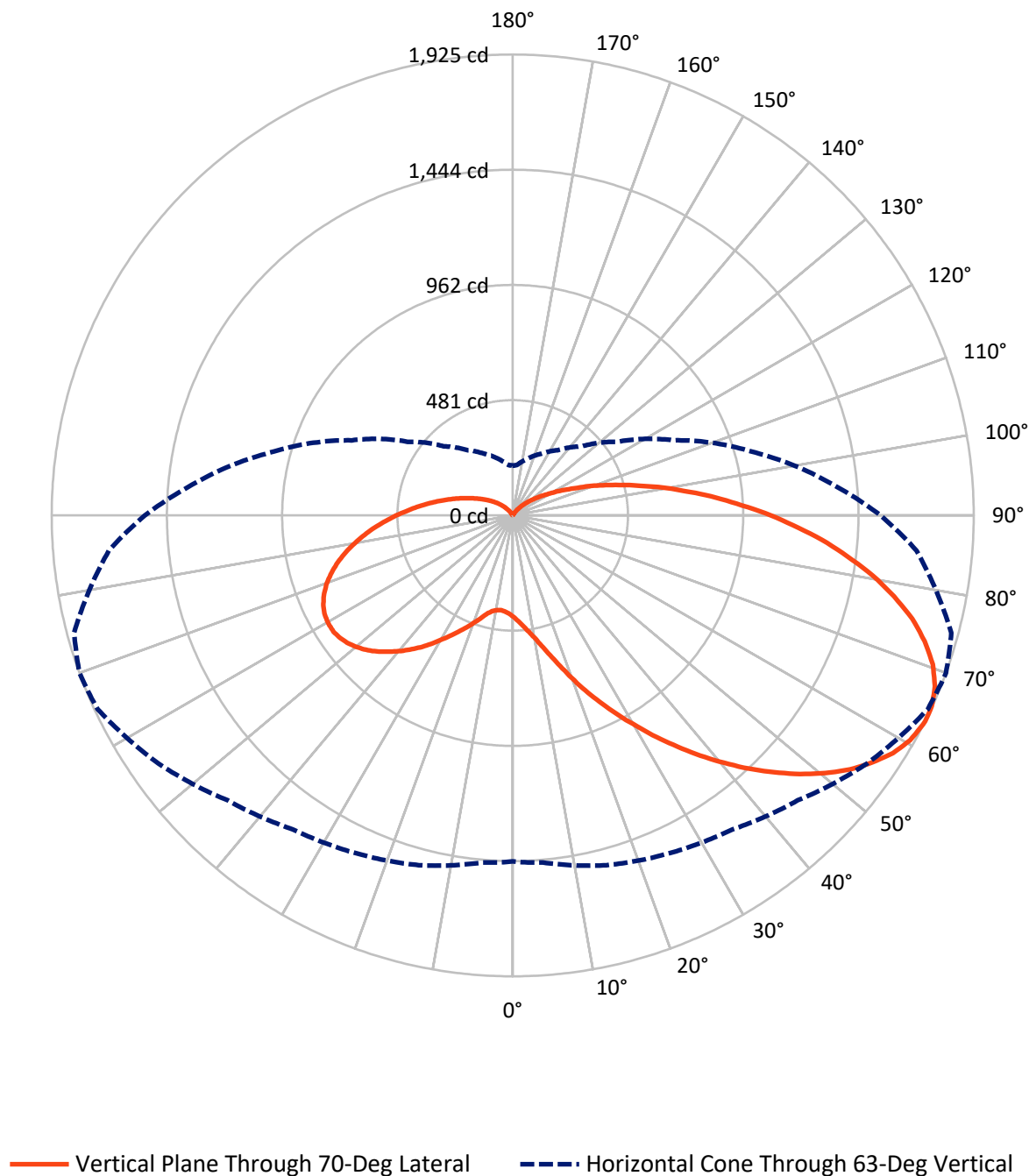


Based on 10 foot mounting height. Maximum calculated value = 7.6 fc  
 Type IV - Short - Non-Cutoff

REPORT NUMBER: P240261

CATALOG NUMBER: UTLD-AF24-100-D-U-SL3-FP-7030

## Luminous Intensity Polar Plot



REPORT NUMBER: P240261

CATALOG NUMBER: UTLD-AF24-100-D-U-SL3-FP-7030

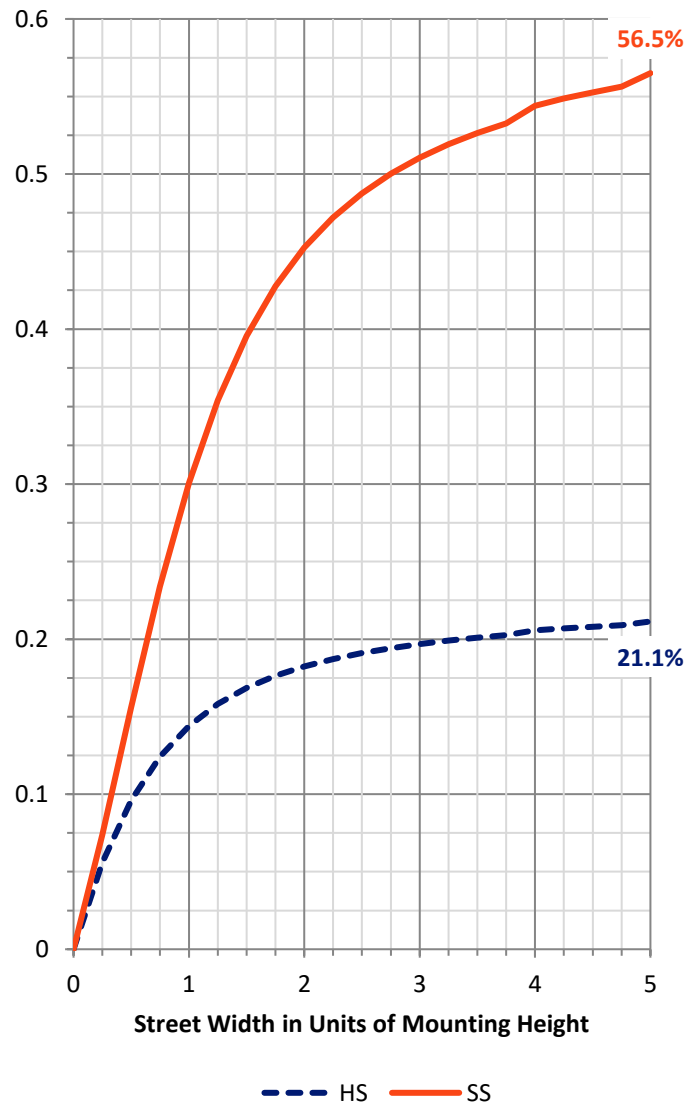
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1542.3   | 373.2  | 1915.6 |
|                    | % Fixture | 22.5     | 5.4    | 27.9   |
| <b>Street Side</b> | Lumens    | 4169.0   | 782.4  | 4951.4 |
|                    | % Fixture | 60.7     | 11.4   | 72.1   |
| <b>Total</b>       | Lumens    | 5711.3   | 1155.6 | 6867.0 |
|                    | % Fixture | 83.2     | 16.8   | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 42.0   | 0.6       |
| 10°-20°   | 146.7  | 2.1       |
| 20°-30°   | 311.7  | 4.5       |
| 30°-40°   | 537.4  | 7.8       |
| 40°-50°   | 792.8  | 11.5      |
| 50°-60°   | 1009.0 | 14.7      |
| 60°-70°   | 1095.3 | 15.9      |
| 70°-80°   | 1001.6 | 14.6      |
| 80°-90°   | 774.8  | 11.3      |
| 90°-100°  | 522.1  | 7.6       |
| 100°-110° | 317.6  | 4.6       |
| 110°-120° | 177.9  | 2.6       |
| 120°-130° | 90.6   | 1.3       |
| 130°-140° | 37.5   | 0.5       |
| 140°-150° | 9.3    | 0.1       |
| 150°-160° | 0.6    | 0.0       |
| 160°-170° | 0.0    | 0.0       |
| 170°-180° | 0.0    | 0.0       |
| 0°-90°    | 5711.3 | 83.2      |
| 0°-180°   | 6867.0 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P240261

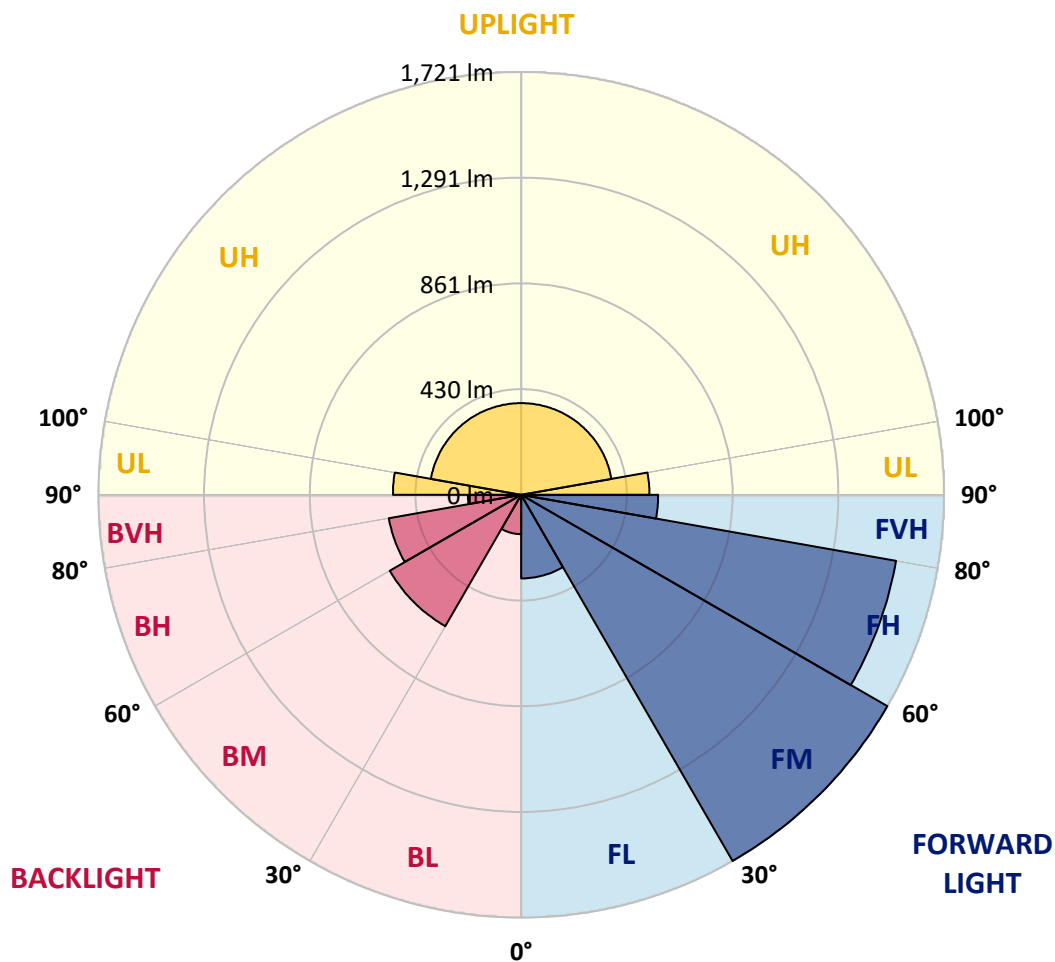
CATALOG NUMBER: UTLD-AF24-100-D-U-SL3-FP-7030

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |         |         |
|------|-------------|--------|-----------|-------------------------|---------|---------|
|      |             |        |           | B                       | U       | G       |
| FL   | (0°-30°)    | 340.2  | 5.0       |                         |         |         |
| FM   | (30°-60°)   | 1721.4 | 25.1      |                         |         |         |
| FH   | (60°-80°)   | 1549.6 | 22.6      |                         |         | G1/1800 |
| FVH  | (80°-90°)   | 557.8  | 8.1       |                         |         | G4/750  |
| BL   | (0°-30°)    | 160.2  | 2.3       | B1/500                  |         |         |
| BM   | (30°-60°)   | 617.8  | 9.0       | B1/1000                 |         |         |
| BH   | (60°-80°)   | 547.3  | 8.0       | B2/1000                 |         | G2/1000 |
| BVH  | (80°-90°)   | 217.0  | 3.2       |                         |         | G2/225  |
| UL   | (90°-100°)  | 522.1  | 7.6       |                         | U4/1000 |         |
| UH   | (100°-180°) | 373.2  | 5.4       |                         | U3/500  |         |

**BUG Rating: B2-U4-G4**

Type IV Short





REPORT NUMBER: P240261

CATALOG NUMBER: UTLD-AF24-100-D-U-SL3-FP-7030

**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 70°    | 75°    | 85°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 423.7  | 423.7  | 423.7  | 423.7  | 423.7  | 423.7  | 423.7  | 423.7  | 423.7  | 423.7  | 423.7  |
| 2.5°   | 472.3  | 471.4  | 470.5  | 465.8  | 464.0  | 457.4  | 451.7  | 445.2  | 441.4  | 437.7  | 430.3  |
| 5°     | 521.8  | 520.0  | 517.3  | 512.5  | 504.1  | 494.7  | 483.5  | 470.5  | 464.0  | 456.3  | 441.4  |
| 7.5°   | 570.6  | 569.6  | 568.5  | 559.3  | 550.8  | 535.9  | 520.0  | 501.3  | 492.0  | 479.7  | 457.4  |
| 10°    | 623.8  | 625.7  | 620.0  | 611.7  | 597.6  | 581.7  | 561.1  | 535.9  | 523.8  | 510.7  | 480.7  |
| 12.5°  | 684.6  | 683.6  | 679.0  | 665.0  | 650.0  | 632.3  | 606.9  | 579.8  | 565.9  | 548.1  | 509.7  |
| 15°    | 746.4  | 742.6  | 737.0  | 727.6  | 708.9  | 688.4  | 661.2  | 630.3  | 614.5  | 594.8  | 551.8  |
| 17.5°  | 810.8  | 808.1  | 804.3  | 788.5  | 772.6  | 747.3  | 724.8  | 691.2  | 671.5  | 650.0  | 600.4  |
| 20°    | 875.3  | 873.5  | 868.8  | 856.7  | 837.0  | 814.6  | 793.1  | 757.6  | 735.1  | 708.9  | 652.9  |
| 22.5°  | 943.7  | 942.7  | 938.1  | 924.0  | 908.2  | 894.1  | 867.0  | 826.8  | 805.2  | 773.4  | 708.0  |
| 25°    | 1013.8 | 1014.8 | 1006.3 | 993.2  | 982.0  | 968.9  | 940.8  | 898.7  | 872.6  | 839.8  | 766.0  |
| 27.5°  | 1089.6 | 1085.8 | 1080.2 | 1068.0 | 1058.7 | 1043.8 | 1014.8 | 971.8  | 946.5  | 910.9  | 828.6  |
| 30°    | 1159.7 | 1160.7 | 1148.6 | 1141.0 | 1134.4 | 1120.5 | 1093.3 | 1049.3 | 1021.2 | 988.6  | 894.1  |
| 32.5°  | 1235.5 | 1231.7 | 1223.2 | 1215.8 | 1211.1 | 1196.2 | 1170.9 | 1132.6 | 1104.5 | 1063.4 | 960.5  |
| 35°    | 1301.9 | 1301.0 | 1291.6 | 1293.4 | 1281.3 | 1269.1 | 1250.5 | 1214.9 | 1185.9 | 1146.5 | 1034.3 |
| 37.5°  | 1370.1 | 1368.3 | 1361.7 | 1363.5 | 1349.6 | 1340.2 | 1328.0 | 1297.2 | 1272.9 | 1232.7 | 1111.0 |
| 40°    | 1434.7 | 1429.9 | 1425.3 | 1428.1 | 1417.8 | 1411.3 | 1404.7 | 1383.2 | 1358.0 | 1315.9 | 1186.9 |
| 42.5°  | 1487.0 | 1486.2 | 1483.3 | 1488.0 | 1477.7 | 1475.9 | 1479.6 | 1468.3 | 1445.9 | 1402.9 | 1263.5 |
| 45°    | 1532.0 | 1532.0 | 1535.6 | 1538.5 | 1529.2 | 1532.0 | 1550.6 | 1547.8 | 1530.0 | 1487.0 | 1343.1 |
| 47.5°  | 1567.5 | 1566.6 | 1575.9 | 1579.7 | 1575.0 | 1585.3 | 1616.2 | 1629.2 | 1614.2 | 1574.0 | 1416.9 |
| 50°    | 1588.1 | 1588.1 | 1604.9 | 1609.6 | 1610.5 | 1630.1 | 1673.2 | 1702.2 | 1691.9 | 1653.5 | 1487.0 |
| 52.5°  | 1593.6 | 1595.5 | 1618.9 | 1629.2 | 1633.0 | 1663.8 | 1722.7 | 1766.7 | 1762.9 | 1726.6 | 1550.6 |
| 55°    | 1584.4 | 1587.1 | 1618.0 | 1633.9 | 1645.1 | 1688.2 | 1762.1 | 1823.7 | 1821.0 | 1787.3 | 1603.1 |
| 57.5°  | 1558.1 | 1561.9 | 1601.2 | 1624.5 | 1645.1 | 1701.2 | 1791.0 | 1868.7 | 1872.3 | 1840.6 | 1647.9 |
| 60°    | 1516.9 | 1521.7 | 1569.4 | 1600.2 | 1632.0 | 1700.3 | 1805.9 | 1897.7 | 1906.0 | 1873.4 | 1677.9 |
| 62.5°  | 1459.9 | 1465.5 | 1520.7 | 1563.7 | 1606.7 | 1687.2 | 1806.9 | 1911.7 | 1922.9 | 1893.9 | 1691.9 |
| 63°    | 1445.0 | 1455.3 | 1512.2 | 1555.3 | 1600.2 | 1682.5 | 1805.9 | 1912.6 | 1924.7 | 1895.7 | 1692.8 |
| 65°    | 1386.9 | 1398.2 | 1463.6 | 1514.3 | 1568.4 | 1661.0 | 1792.8 | 1907.8 | 1922.9 | 1894.8 | 1688.2 |
| 67.5°  | 1305.6 | 1320.6 | 1389.8 | 1451.5 | 1520.7 | 1622.6 | 1763.9 | 1884.5 | 1901.3 | 1874.3 | 1667.6 |
| 70°    | 1213.0 | 1233.6 | 1306.5 | 1383.2 | 1459.9 | 1571.2 | 1718.9 | 1844.3 | 1860.2 | 1832.2 | 1626.5 |
| 72.5°  | 1119.5 | 1142.0 | 1221.4 | 1303.8 | 1389.8 | 1507.7 | 1656.4 | 1783.5 | 1798.5 | 1774.2 | 1569.4 |
| 75°    | 1025.1 | 1041.9 | 1124.2 | 1219.6 | 1313.1 | 1433.7 | 1587.1 | 1705.9 | 1722.7 | 1693.7 | 1498.3 |
| 77.5°  | 925.0  | 948.4  | 1033.5 | 1129.7 | 1229.8 | 1358.0 | 1504.8 | 1617.0 | 1627.3 | 1598.4 | 1406.6 |
| 80°    | 826.8  | 853.0  | 936.3  | 1040.0 | 1145.7 | 1269.1 | 1409.5 | 1518.8 | 1524.5 | 1493.6 | 1308.4 |
| 82.5°  | 740.7  | 765.1  | 850.1  | 950.2  | 1056.9 | 1183.1 | 1311.2 | 1404.7 | 1408.5 | 1379.5 | 1206.4 |
| 85°    | 657.5  | 679.0  | 760.3  | 863.2  | 970.8  | 1087.6 | 1210.3 | 1289.7 | 1294.4 | 1259.8 | 1098.9 |
| 87.5°  | 582.7  | 599.5  | 678.1  | 780.9  | 885.6  | 1000.7 | 1102.7 | 1169.1 | 1169.9 | 1136.3 | 992.3  |
| 90°    | 518.1  | 528.4  | 605.1  | 706.2  | 805.2  | 908.2  | 1003.5 | 1061.6 | 1054.1 | 1018.6 | 881.9  |
| 92.5°  | 455.5  | 464.0  | 534.1  | 632.3  | 730.4  | 823.0  | 906.3  | 943.7  | 935.3  | 904.3  | 783.7  |
| 95°    | 405.0  | 408.7  | 473.2  | 565.9  | 653.7  | 741.7  | 812.8  | 839.8  | 831.5  | 798.6  | 686.4  |
| 97.5°  | 353.6  | 359.1  | 418.0  | 502.3  | 587.4  | 666.8  | 724.8  | 742.6  | 726.7  | 694.9  | 601.4  |
| 100°   | 315.2  | 317.1  | 366.6  | 447.1  | 527.5  | 596.7  | 642.6  | 653.7  | 636.9  | 607.9  | 523.8  |
| 102.5° | 279.6  | 278.7  | 323.6  | 398.5  | 470.5  | 528.4  | 567.7  | 566.7  | 549.0  | 523.8  | 454.5  |
| 105°   | 248.8  | 247.8  | 282.4  | 351.7  | 416.2  | 467.6  | 496.6  | 492.9  | 475.1  | 450.8  | 395.6  |
| 107.5° | 219.8  | 221.7  | 246.9  | 307.7  | 365.7  | 411.5  | 433.0  | 424.6  | 408.7  | 386.2  | 343.2  |



REPORT NUMBER: P240261

CATALOG NUMBER: UTLD-AF24-100-D-U-SL3-FP-7030

**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 5°    | 15°   | 25°   | 35°   | 45°   | 55°   | 65°   | 70°   | 75°   | 85°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 110°   | 198.3 | 198.3 | 217.9 | 270.3 | 323.6 | 361.0 | 377.8 | 365.7 | 350.7 | 328.4 | 296.5 |
| 112.5° | 178.6 | 178.6 | 192.7 | 235.7 | 284.3 | 318.0 | 329.2 | 313.3 | 295.5 | 280.6 | 257.2 |
| 115°   | 160.8 | 160.8 | 170.2 | 204.9 | 247.8 | 275.9 | 282.4 | 265.6 | 250.6 | 239.4 | 224.4 |
| 117.5° | 145.9 | 145.9 | 151.6 | 175.8 | 214.1 | 240.4 | 244.0 | 225.4 | 215.1 | 203.9 | 195.5 |
| 120°   | 131.8 | 132.9 | 134.7 | 150.6 | 182.4 | 204.9 | 206.7 | 188.9 | 180.5 | 175.0 | 170.2 |
| 122.5° | 119.7 | 119.7 | 120.6 | 130.0 | 155.2 | 173.9 | 173.9 | 159.0 | 153.4 | 151.6 | 147.7 |
| 125°   | 108.5 | 108.5 | 108.5 | 112.2 | 129.0 | 144.0 | 142.1 | 132.9 | 130.0 | 130.0 | 128.2 |
| 127.5° | 98.3  | 97.2  | 96.3  | 97.2  | 105.7 | 116.0 | 116.0 | 109.5 | 109.5 | 110.4 | 111.3 |
| 130°   | 88.0  | 87.0  | 85.1  | 83.2  | 84.1  | 91.7  | 90.6  | 88.8  | 90.6  | 93.5  | 95.4  |
| 132.5° | 77.6  | 77.6  | 74.9  | 70.2  | 67.3  | 69.2  | 70.2  | 71.1  | 73.9  | 77.6  | 80.5  |
| 135°   | 67.3  | 67.3  | 64.6  | 58.0  | 52.3  | 51.5  | 50.5  | 55.1  | 59.9  | 63.6  | 66.4  |
| 137.5° | 57.1  | 57.1  | 54.2  | 46.8  | 39.4  | 35.5  | 34.6  | 42.1  | 46.8  | 50.5  | 53.3  |
| 140°   | 47.7  | 46.8  | 43.9  | 36.5  | 28.1  | 22.4  | 22.4  | 29.9  | 34.6  | 38.4  | 42.1  |
| 142.5° | 37.3  | 37.3  | 34.6  | 28.1  | 18.7  | 13.1  | 13.9  | 20.5  | 24.4  | 27.1  | 29.9  |
| 145°   | 28.1  | 28.1  | 25.2  | 18.7  | 11.3  | 6.5   | 7.4   | 13.1  | 16.0  | 18.7  | 21.6  |
| 147.5° | 19.6  | 19.6  | 16.8  | 12.1  | 5.6   | 1.8   | 3.8   | 7.4   | 9.4   | 11.3  | 13.1  |
| 150°   | 12.1  | 12.1  | 10.3  | 6.5   | 2.8   | 0.0   | 1.0   | 3.8   | 4.7   | 5.6   | 7.4   |
| 152.5° | 6.5   | 6.5   | 4.7   | 2.8   | 1.0   | 0.0   | 0.0   | 1.0   | 1.8   | 2.8   | 3.8   |
| 155°   | 2.8   | 2.8   | 1.8   | 1.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 1.0   | 1.0   |
| 157.5° | 1.0   | 1.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 160°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 162.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 165°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 167.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 170°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 172.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 175°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 177.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 180°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |



REPORT NUMBER: P240261

CATALOG NUMBER: UTLD-AF24-100-D-U-SL3-FP-7030

**CANDELA DISTRIBUTION (continued):**

|        | 90°    | 95°    | 105°   | 115°  | 125°  | 135°  | 145°  | 155°  | 165°  | 175°  | 180°  |
|--------|--------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°     | 423.7  | 423.7  | 423.7  | 423.7 | 423.7 | 423.7 | 423.7 | 423.7 | 423.7 | 423.7 | 423.7 |
| 2.5°   | 426.4  | 422.8  | 414.3  | 406.9 | 400.3 | 393.8 | 388.1 | 383.5 | 382.5 | 379.6 | 380.7 |
| 5°     | 433.0  | 425.6  | 409.6  | 395.6 | 380.7 | 368.5 | 359.1 | 350.7 | 344.1 | 341.3 | 340.5 |
| 7.5°   | 446.1  | 434.0  | 409.6  | 387.3 | 366.6 | 347.9 | 332.0 | 319.8 | 312.4 | 307.7 | 308.6 |
| 10°    | 464.8  | 448.9  | 416.2  | 385.3 | 356.3 | 331.0 | 310.6 | 295.5 | 284.3 | 279.6 | 279.6 |
| 12.5°  | 489.2  | 470.5  | 428.3  | 388.1 | 351.7 | 319.8 | 293.7 | 275.0 | 264.6 | 258.2 | 258.2 |
| 15°    | 528.4  | 501.3  | 448.9  | 397.4 | 351.7 | 313.3 | 284.3 | 263.8 | 254.3 | 249.7 | 248.8 |
| 17.5°  | 570.6  | 540.7  | 477.9  | 416.2 | 360.1 | 312.4 | 283.4 | 265.6 | 254.3 | 248.8 | 248.8 |
| 20°    | 616.3  | 580.8  | 508.8  | 437.7 | 374.1 | 323.6 | 290.8 | 269.4 | 255.3 | 247.8 | 246.9 |
| 22.5°  | 665.9  | 626.6  | 541.5  | 460.1 | 390.9 | 342.3 | 300.3 | 272.2 | 255.3 | 247.8 | 246.9 |
| 25°    | 721.1  | 673.4  | 575.1  | 485.4 | 413.3 | 359.1 | 311.4 | 275.9 | 255.3 | 246.0 | 245.1 |
| 27.5°  | 777.2  | 723.9  | 612.6  | 509.7 | 436.7 | 375.1 | 321.8 | 278.7 | 255.3 | 245.1 | 244.0 |
| 30°    | 838.0  | 774.4  | 649.1  | 537.8 | 458.3 | 389.1 | 330.2 | 281.6 | 255.3 | 244.0 | 243.2 |
| 32.5°  | 897.9  | 829.6  | 688.4  | 569.6 | 478.9 | 400.3 | 337.6 | 287.2 | 256.2 | 243.2 | 241.3 |
| 35°    | 964.2  | 888.5  | 730.4  | 601.4 | 497.5 | 410.6 | 344.1 | 290.8 | 255.3 | 241.3 | 240.4 |
| 37.5°  | 1033.5 | 946.5  | 768.7  | 629.5 | 512.5 | 418.0 | 347.9 | 293.7 | 255.3 | 240.4 | 238.5 |
| 40°    | 1102.7 | 1005.4 | 809.9  | 657.5 | 526.5 | 424.6 | 351.7 | 296.5 | 254.3 | 238.5 | 236.6 |
| 42.5°  | 1169.9 | 1063.4 | 850.1  | 680.9 | 537.8 | 429.3 | 353.6 | 298.4 | 254.3 | 236.6 | 234.8 |
| 45°    | 1239.2 | 1122.3 | 892.2  | 703.3 | 546.2 | 431.1 | 353.6 | 298.4 | 255.3 | 234.8 | 232.8 |
| 47.5°  | 1305.6 | 1177.5 | 930.6  | 721.1 | 552.8 | 432.1 | 353.6 | 298.4 | 255.3 | 232.8 | 230.1 |
| 50°    | 1364.5 | 1228.0 | 962.3  | 736.1 | 556.4 | 432.1 | 352.6 | 298.4 | 255.3 | 230.1 | 227.3 |
| 52.5°  | 1421.6 | 1272.0 | 992.3  | 746.4 | 558.4 | 430.3 | 350.7 | 296.5 | 255.3 | 227.3 | 224.4 |
| 55°    | 1467.5 | 1311.2 | 1012.9 | 752.9 | 556.4 | 427.4 | 347.0 | 294.6 | 254.3 | 224.4 | 220.7 |
| 57.5°  | 1503.9 | 1339.3 | 1028.7 | 754.8 | 552.8 | 422.8 | 343.2 | 291.8 | 252.5 | 220.7 | 217.9 |
| 60°    | 1527.2 | 1355.2 | 1033.5 | 751.0 | 547.2 | 416.2 | 338.6 | 289.0 | 249.7 | 217.0 | 213.3 |
| 62.5°  | 1535.6 | 1360.9 | 1031.6 | 743.5 | 538.7 | 409.6 | 333.9 | 285.2 | 246.9 | 212.3 | 208.5 |
| 63°    | 1535.6 | 1359.8 | 1030.7 | 741.7 | 535.9 | 407.7 | 332.9 | 284.3 | 246.0 | 211.4 | 207.6 |
| 65°    | 1530.0 | 1352.4 | 1021.2 | 730.4 | 527.5 | 401.2 | 328.4 | 280.6 | 244.0 | 208.5 | 203.9 |
| 67.5°  | 1506.6 | 1332.8 | 999.8  | 713.6 | 513.4 | 391.9 | 320.7 | 275.0 | 239.4 | 203.9 | 199.2 |
| 70°    | 1469.3 | 1299.1 | 970.8  | 691.2 | 498.4 | 381.6 | 313.3 | 269.4 | 234.8 | 199.2 | 193.6 |
| 72.5°  | 1414.2 | 1252.3 | 934.2  | 665.0 | 480.7 | 370.4 | 305.0 | 262.8 | 228.3 | 193.6 | 187.1 |
| 75°    | 1345.8 | 1195.3 | 891.3  | 635.1 | 462.9 | 357.3 | 296.5 | 255.3 | 221.7 | 188.0 | 179.6 |
| 77.5°  | 1265.4 | 1128.8 | 841.8  | 604.2 | 442.4 | 344.1 | 286.2 | 246.9 | 215.1 | 182.4 | 172.1 |
| 80°    | 1175.6 | 1050.3 | 788.5  | 569.6 | 420.8 | 330.2 | 275.9 | 238.5 | 205.7 | 175.0 | 164.7 |
| 82.5°  | 1085.8 | 971.8  | 732.2  | 534.1 | 399.4 | 316.1 | 264.6 | 229.1 | 197.3 | 167.3 | 157.2 |
| 85°    | 988.6  | 889.5  | 677.1  | 497.5 | 377.0 | 300.3 | 253.5 | 218.8 | 188.9 | 159.9 | 148.7 |
| 87.5°  | 895.1  | 806.3  | 616.3  | 462.0 | 355.4 | 286.2 | 242.2 | 208.5 | 178.6 | 150.6 | 142.1 |
| 90°    | 804.3  | 726.7  | 564.0  | 425.6 | 332.0 | 270.3 | 230.1 | 197.3 | 168.4 | 141.3 | 134.7 |
| 92.5°  | 716.4  | 646.3  | 506.9  | 391.9 | 310.6 | 255.3 | 217.0 | 186.1 | 158.1 | 132.9 | 127.2 |
| 95°    | 634.1  | 576.2  | 459.2  | 358.2 | 290.0 | 240.4 | 204.9 | 175.8 | 146.9 | 122.5 | 118.8 |
| 97.5°  | 556.4  | 509.7  | 412.5  | 329.2 | 267.4 | 225.4 | 191.7 | 163.7 | 135.6 | 113.2 | 111.3 |
| 100°   | 491.0  | 450.8  | 368.5  | 299.3 | 247.8 | 210.5 | 179.6 | 151.6 | 124.3 | 103.8 | 103.8 |
| 102.5° | 429.3  | 393.8  | 327.3  | 271.2 | 228.3 | 194.5 | 165.5 | 139.3 | 113.2 | 95.4  | 95.4  |
| 105°   | 375.1  | 346.1  | 292.7  | 246.0 | 209.4 | 179.6 | 152.4 | 127.2 | 100.9 | 87.0  | 87.0  |
| 107.5° | 325.5  | 302.9  | 260.0  | 222.6 | 190.7 | 163.7 | 139.3 | 114.0 | 88.8  | 78.5  | 79.5  |



REPORT NUMBER: P240261

CATALOG NUMBER: UTLD-AF24-100-D-U-SL3-FP-7030

**CANDELA DISTRIBUTION (continued):**

|        | 90°   | 95°   | 105°  | 115°  | 125°  | 135°  | 145°  | 155°  | 165° | 175° | 180° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|------|
| 110°   | 285.2 | 267.4 | 231.0 | 199.2 | 173.0 | 150.6 | 127.2 | 101.9 | 77.6 | 71.1 | 71.1 |
| 112.5° | 246.9 | 232.8 | 203.9 | 179.6 | 157.2 | 136.6 | 114.0 | 89.8  | 68.3 | 64.6 | 64.6 |
| 115°   | 216.0 | 204.9 | 180.5 | 159.9 | 141.3 | 122.5 | 100.9 | 77.6  | 58.9 | 57.1 | 58.0 |
| 117.5° | 188.9 | 179.6 | 160.8 | 144.0 | 127.2 | 109.5 | 89.8  | 66.4  | 51.5 | 51.5 | 51.5 |
| 120°   | 164.7 | 158.1 | 141.3 | 127.2 | 113.2 | 96.3  | 77.6  | 56.2  | 44.9 | 44.9 | 45.8 |
| 122.5° | 145.0 | 138.4 | 126.3 | 112.2 | 99.1  | 84.1  | 66.4  | 46.8  | 39.4 | 40.2 | 41.2 |
| 125°   | 125.3 | 121.6 | 110.4 | 98.3  | 86.1  | 71.1  | 55.1  | 38.4  | 34.6 | 35.5 | 36.5 |
| 127.5° | 109.5 | 106.6 | 95.4  | 85.1  | 73.9  | 59.9  | 44.9  | 30.8  | 29.0 | 30.8 | 31.8 |
| 130°   | 93.5  | 91.7  | 83.2  | 72.9  | 61.7  | 49.6  | 35.5  | 25.2  | 25.2 | 27.1 | 27.1 |
| 132.5° | 79.5  | 77.6  | 70.2  | 59.9  | 50.5  | 38.4  | 27.1  | 20.5  | 21.6 | 23.4 | 23.4 |
| 135°   | 66.4  | 64.6  | 58.0  | 49.6  | 39.4  | 29.0  | 20.5  | 16.8  | 18.7 | 19.6 | 19.6 |
| 137.5° | 54.2  | 52.3  | 46.8  | 38.4  | 29.0  | 20.5  | 15.0  | 13.1  | 15.0 | 16.8 | 16.8 |
| 140°   | 41.2  | 41.2  | 36.5  | 29.0  | 20.5  | 13.9  | 10.3  | 10.3  | 12.1 | 13.1 | 13.1 |
| 142.5° | 30.8  | 29.9  | 27.1  | 20.5  | 13.1  | 8.4   | 6.5   | 7.4   | 9.4  | 10.3 | 10.3 |
| 145°   | 21.6  | 20.5  | 18.7  | 13.9  | 7.4   | 4.7   | 3.8   | 5.6   | 6.5  | 7.4  | 7.4  |
| 147.5° | 13.9  | 13.1  | 12.1  | 8.4   | 3.8   | 1.8   | 1.8   | 3.8   | 4.7  | 5.6  | 5.6  |
| 150°   | 7.4   | 7.4   | 6.5   | 3.8   | 1.8   | 0.0   | 1.0   | 1.8   | 2.8  | 2.8  | 2.8  |
| 152.5° | 3.8   | 3.8   | 2.8   | 1.8   | 1.0   | 0.0   | 0.0   | 0.0   | 1.0  | 1.0  | 1.0  |
| 155°   | 1.0   | 1.0   | 1.0   | 1.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0  | 0.0  |
| 157.5° | 0.0   | 0.0   | 0.0   | 1.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0  | 0.0  |
| 160°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0  | 0.0  |
| 162.5° | 0.0   | 0.0   | 0.0   | 1.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0  | 0.0  |
| 165°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0  | 0.0  |
| 167.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0  | 0.0  |
| 170°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0  | 0.0  |
| 172.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0  | 0.0  |
| 175°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0  | 0.0  |
| 177.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0  | 0.0  |
| 180°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0  | 0.0  |

(END OF REPORT)