

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: P266559

Luminaire Tested: **UTLD-AF24-100-D-U-T4W-FP-7027**

Issue Date: 5/28/2020

### Test Information

Test Method: LM-79-08  
Report Number: P266559  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-26)  
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-T4W-FP-7027  
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE  
(1) 70 CRI, 2700K, 1200mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS AND FROSTED LENS PANELS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 6348.2 lumens  
Efficiency: N/A  
Efficacy: 66.1 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

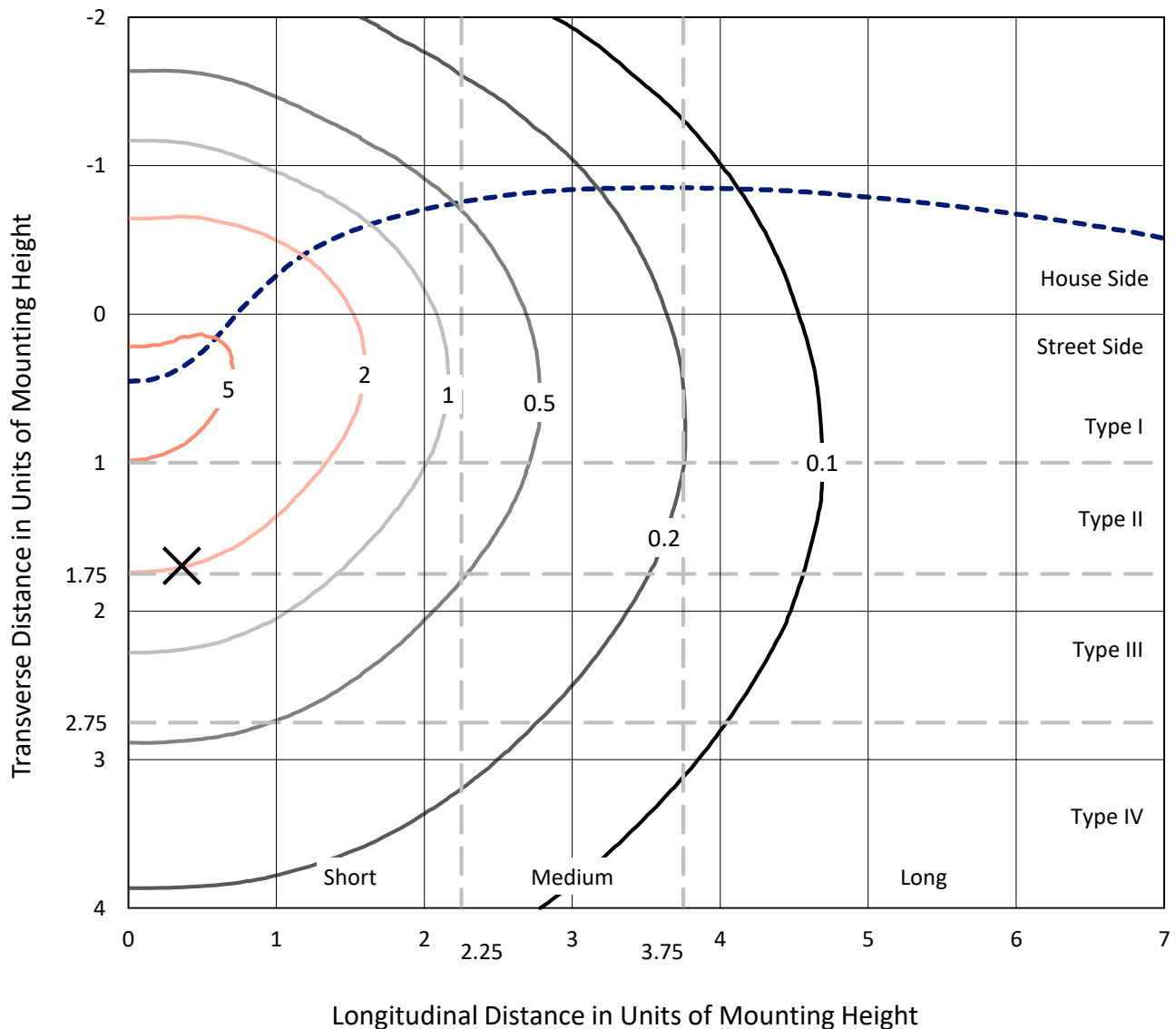


REPORT NUMBER: P266559

CATALOG NUMBER: UTLD-AF24-100-D-U-T4W-FP-7027

## Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
- - - 1/2 Max cd

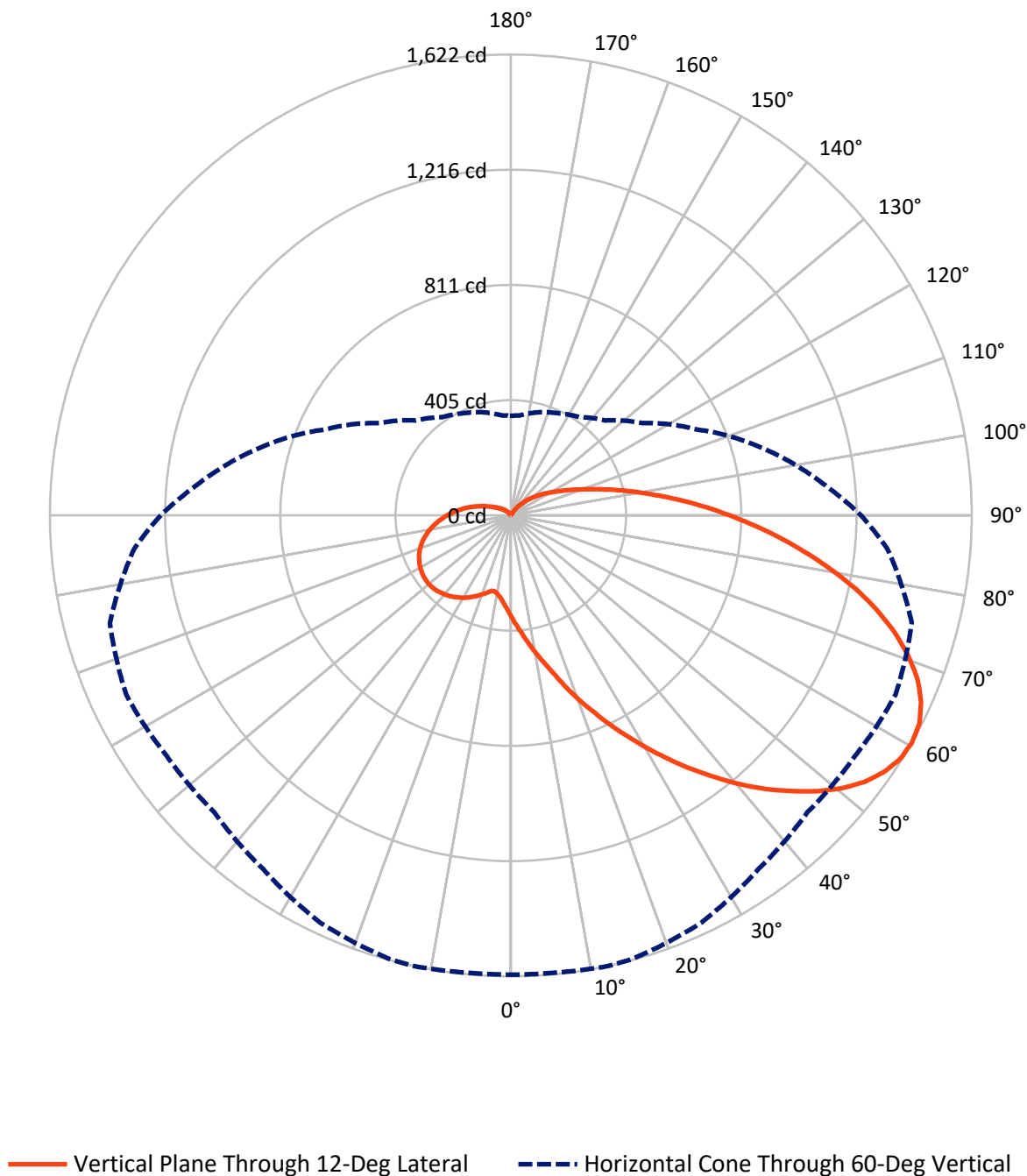


Based on 10 foot mounting height. Maximum calculated value = 6.2 fc  
Type IV - Short - Non-Cutoff

REPORT NUMBER: P266559

CATALOG NUMBER: UTLD-AF24-100-D-U-T4W-FP-7027

## Luminous Intensity Polar Plot



REPORT NUMBER: P266559

CATALOG NUMBER: UTLD-AF24-100-D-U-T4W-FP-7027

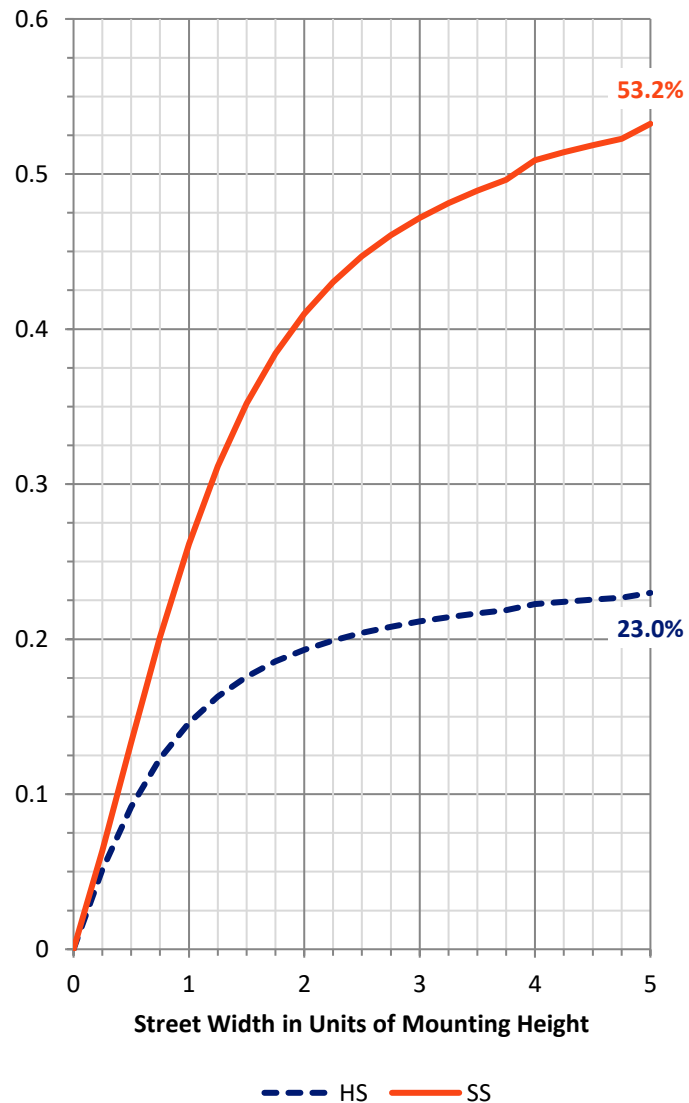
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1560.8   | 359.4  | 1920.2 |
|                    | % Fixture | 24.6     | 5.7    | 30.2   |
| <b>Street Side</b> | Lumens    | 3683.2   | 744.8  | 4428.0 |
|                    | % Fixture | 58.0     | 11.7   | 69.8   |
| <b>Total</b>       | Lumens    | 5243.9   | 1104.3 | 6348.2 |
|                    | % Fixture | 82.6     | 17.4   | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 35.5   | 0.6       |
| 10°-20°   | 124.5  | 2.0       |
| 20°-30°   | 267.0  | 4.2       |
| 30°-40°   | 467.4  | 7.4       |
| 40°-50°   | 703.9  | 11.1      |
| 50°-60°   | 919.0  | 14.5      |
| 60°-70°   | 1023.5 | 16.1      |
| 70°-80°   | 955.5  | 15.1      |
| 80°-90°   | 747.5  | 11.8      |
| 90°-100°  | 505.2  | 8.0       |
| 100°-110° | 305.3  | 4.8       |
| 110°-120° | 168.2  | 2.6       |
| 120°-130° | 83.6   | 1.3       |
| 130°-140° | 33.5   | 0.5       |
| 140°-150° | 8.0    | 0.1       |
| 150°-160° | 0.5    | 0.0       |
| 160°-170° | 0.0    | 0.0       |
| 170°-180° | 0.0    | 0.0       |
| 0°-90°    | 5243.9 | 82.6      |
| 0°-180°   | 6348.2 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P266559

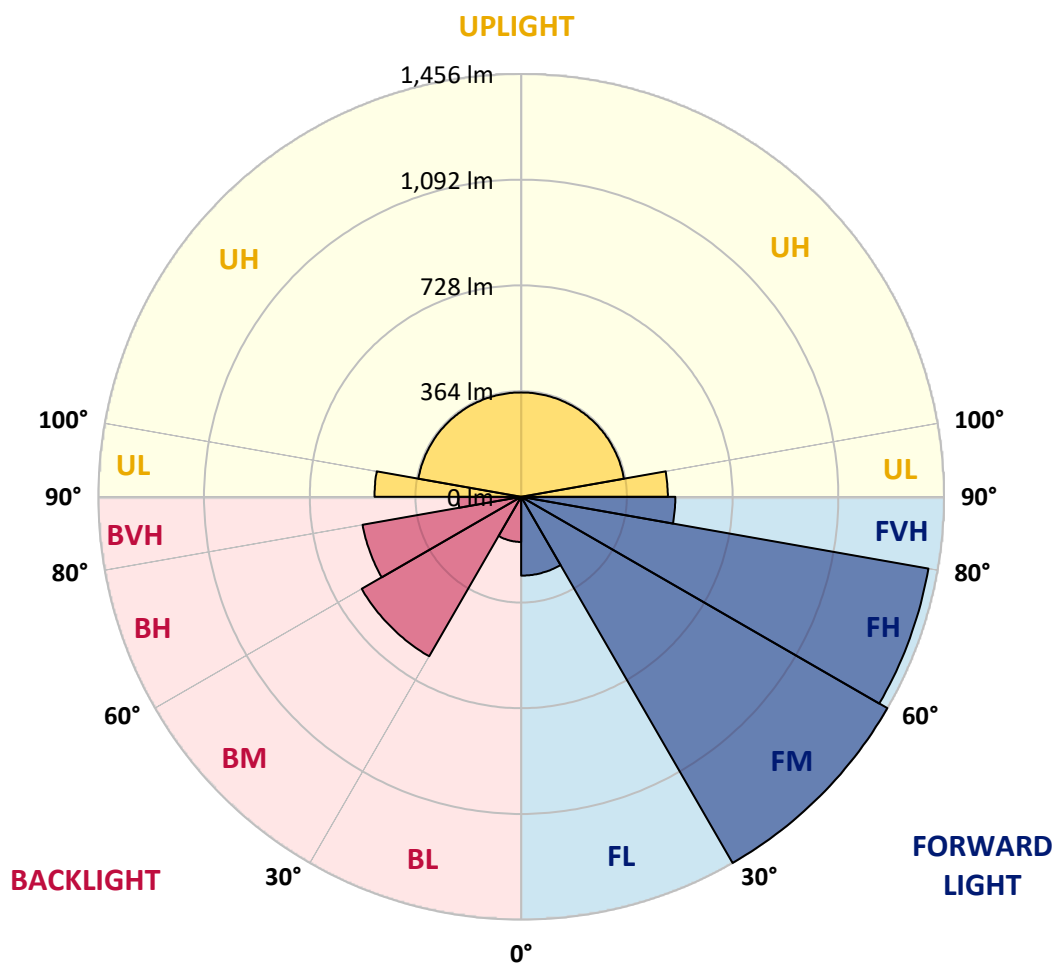
CATALOG NUMBER: UTLD-AF24-100-D-U-T4W-FP-7027

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

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |         |         |
|------|-------------|--------|-----------|-------------------------|---------|---------|
|      |             |        |           | B                       | U       | G       |
| FL   | (0°-30°)    | 271.5  | 4.3       |                         |         |         |
| FM   | (30°-60°)   | 1456.4 | 22.9      |                         |         |         |
| FH   | (60°-80°)   | 1424.4 | 22.4      |                         |         | G1/1800 |
| FVH  | (80°-90°)   | 530.8  | 8.4       |                         |         | G4/750  |
| BL   | (0°-30°)    | 155.5  | 2.4       | B1/500                  |         |         |
| BM   | (30°-60°)   | 634.0  | 10.0      | B1/1000                 |         |         |
| BH   | (60°-80°)   | 554.5  | 8.7       | B2/1000                 |         | G2/1000 |
| BVH  | (80°-90°)   | 216.7  | 3.4       |                         |         | G2/225  |
| UL   | (90°-100°)  | 505.2  | 8.0       |                         | U4/1000 |         |
| UH   | (100°-180°) | 359.4  | 5.7       |                         | U3/500  |         |

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

Type IV Short





REPORT NUMBER: P266559

CATALOG NUMBER: UTLD-AF24-100-D-U-T4W-FP-7027

**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 5°     | 12°    | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 358.0  | 358.0  | 358.0  | 358.0  | 358.0  | 358.0  | 358.0  | 358.0  | 358.0  | 358.0  | 358.0  |
| 2.5°   | 389.0  | 387.3  | 387.3  | 385.6  | 385.6  | 382.3  | 379.8  | 375.5  | 371.3  | 366.2  | 362.0  |
| 5°     | 420.0  | 420.0  | 418.4  | 418.4  | 415.0  | 409.2  | 403.2  | 395.8  | 388.2  | 379.8  | 369.7  |
| 7.5°   | 457.1  | 456.2  | 456.2  | 453.6  | 449.5  | 441.1  | 432.7  | 421.8  | 409.9  | 395.8  | 382.3  |
| 10°    | 494.8  | 494.0  | 494.0  | 491.6  | 486.4  | 476.3  | 463.7  | 451.2  | 436.0  | 417.5  | 399.0  |
| 12.5°  | 540.2  | 536.8  | 535.2  | 534.3  | 526.0  | 516.6  | 500.7  | 485.7  | 465.4  | 444.4  | 421.8  |
| 15°    | 588.1  | 587.2  | 582.2  | 579.6  | 571.3  | 556.9  | 541.9  | 523.4  | 503.2  | 479.8  | 451.9  |
| 17.5°  | 641.8  | 641.8  | 638.5  | 635.1  | 625.8  | 606.5  | 587.2  | 569.6  | 549.5  | 520.8  | 489.8  |
| 20°    | 699.8  | 699.8  | 695.6  | 690.5  | 678.8  | 662.1  | 642.6  | 621.6  | 597.4  | 566.2  | 528.5  |
| 22.5°  | 761.1  | 759.4  | 753.6  | 750.3  | 736.0  | 717.4  | 702.4  | 678.0  | 649.5  | 614.1  | 570.5  |
| 25°    | 825.8  | 823.3  | 817.5  | 814.1  | 797.2  | 783.1  | 765.4  | 736.8  | 704.0  | 663.7  | 615.0  |
| 27.5°  | 894.0  | 887.2  | 882.9  | 878.0  | 862.0  | 847.7  | 823.3  | 796.4  | 758.7  | 716.7  | 662.9  |
| 30°    | 959.4  | 957.0  | 951.8  | 945.1  | 930.9  | 914.0  | 887.2  | 857.8  | 820.8  | 774.6  | 715.1  |
| 32.5°  | 1034.2 | 1031.8 | 1023.3 | 1016.6 | 998.0  | 980.4  | 952.7  | 921.7  | 882.1  | 833.4  | 768.7  |
| 35°    | 1109.0 | 1105.6 | 1096.4 | 1088.8 | 1073.7 | 1047.7 | 1014.8 | 985.5  | 945.9  | 896.4  | 826.7  |
| 37.5°  | 1186.3 | 1179.6 | 1169.5 | 1164.5 | 1146.0 | 1114.0 | 1079.7 | 1047.7 | 1011.5 | 961.1  | 885.5  |
| 40°    | 1259.3 | 1256.0 | 1244.2 | 1238.4 | 1218.2 | 1178.8 | 1140.8 | 1112.3 | 1079.7 | 1026.7 | 946.9  |
| 42.5°  | 1334.2 | 1328.2 | 1316.5 | 1310.5 | 1287.1 | 1241.7 | 1202.2 | 1175.3 | 1147.7 | 1095.6 | 1008.9 |
| 45°    | 1400.5 | 1398.0 | 1383.7 | 1380.3 | 1351.8 | 1303.0 | 1257.6 | 1234.2 | 1209.7 | 1160.3 | 1066.2 |
| 47.5°  | 1465.2 | 1459.3 | 1450.0 | 1445.9 | 1412.2 | 1356.8 | 1312.3 | 1292.1 | 1272.0 | 1226.6 | 1127.5 |
| 50°    | 1518.1 | 1517.2 | 1509.0 | 1503.9 | 1465.2 | 1404.7 | 1359.3 | 1343.3 | 1332.5 | 1288.8 | 1182.9 |
| 52.5°  | 1563.5 | 1562.6 | 1557.7 | 1552.6 | 1511.4 | 1448.3 | 1401.4 | 1389.6 | 1386.3 | 1345.9 | 1231.7 |
| 55°    | 1595.4 | 1594.6 | 1593.0 | 1587.8 | 1547.5 | 1482.8 | 1436.6 | 1427.3 | 1431.5 | 1393.8 | 1275.4 |
| 57.5°  | 1614.0 | 1613.0 | 1615.6 | 1611.4 | 1570.2 | 1506.4 | 1461.1 | 1458.5 | 1468.5 | 1434.1 | 1308.1 |
| 60°    | 1615.6 | 1615.6 | 1621.5 | 1618.9 | 1581.9 | 1518.9 | 1476.2 | 1477.0 | 1493.0 | 1460.1 | 1329.1 |
| 62.5°  | 1600.5 | 1600.5 | 1613.0 | 1610.5 | 1578.6 | 1518.1 | 1478.6 | 1485.3 | 1505.5 | 1474.5 | 1336.7 |
| 65°    | 1567.7 | 1571.9 | 1586.1 | 1586.1 | 1561.0 | 1506.4 | 1470.3 | 1480.3 | 1504.8 | 1473.6 | 1331.6 |
| 67.5°  | 1515.6 | 1524.1 | 1544.1 | 1545.9 | 1528.2 | 1480.3 | 1448.3 | 1462.7 | 1489.6 | 1456.8 | 1310.5 |
| 70°    | 1450.9 | 1462.7 | 1483.7 | 1489.6 | 1482.1 | 1442.5 | 1415.5 | 1432.4 | 1458.5 | 1425.7 | 1276.2 |
| 72.5°  | 1375.3 | 1386.3 | 1413.2 | 1419.9 | 1422.3 | 1391.2 | 1370.3 | 1390.4 | 1411.4 | 1376.2 | 1228.3 |
| 75°    | 1291.4 | 1300.6 | 1330.7 | 1337.4 | 1348.4 | 1330.7 | 1317.4 | 1333.4 | 1356.8 | 1313.1 | 1167.0 |
| 77.5°  | 1189.6 | 1205.6 | 1239.2 | 1246.8 | 1267.8 | 1259.3 | 1249.4 | 1268.6 | 1286.3 | 1240.0 | 1095.6 |
| 80°    | 1091.4 | 1111.6 | 1139.2 | 1154.3 | 1179.6 | 1178.8 | 1180.5 | 1192.9 | 1208.1 | 1157.7 | 1018.3 |
| 82.5°  | 991.4  | 1005.7 | 1038.4 | 1052.8 | 1091.4 | 1100.7 | 1100.7 | 1117.4 | 1122.4 | 1066.2 | 935.0  |
| 85°    | 890.6  | 907.4  | 940.2  | 954.4  | 996.4  | 1016.6 | 1022.5 | 1030.8 | 1031.8 | 972.9  | 849.3  |
| 87.5°  | 801.5  | 811.6  | 842.7  | 860.2  | 905.8  | 929.1  | 936.8  | 946.9  | 940.2  | 882.1  | 761.1  |
| 90°    | 712.4  | 721.7  | 751.9  | 766.3  | 815.8  | 843.5  | 860.2  | 864.4  | 851.1  | 789.7  | 680.6  |
| 92.5°  | 629.3  | 638.5  | 667.1  | 683.9  | 732.6  | 762.0  | 777.9  | 781.3  | 766.3  | 704.0  | 602.4  |
| 95°    | 556.2  | 556.2  | 587.2  | 599.9  | 654.4  | 687.3  | 702.4  | 702.4  | 681.4  | 620.0  | 527.7  |
| 97.5°  | 487.3  | 488.9  | 513.3  | 529.3  | 579.6  | 614.1  | 630.2  | 631.0  | 601.5  | 543.6  | 464.7  |
| 100°   | 425.1  | 427.7  | 450.3  | 464.7  | 513.3  | 549.5  | 563.7  | 561.3  | 531.0  | 471.3  | 401.6  |
| 102.5° | 373.9  | 373.9  | 393.2  | 405.0  | 451.2  | 487.3  | 500.7  | 495.7  | 464.7  | 407.6  | 350.2  |
| 105°   | 327.6  | 329.3  | 342.0  | 353.8  | 397.4  | 430.9  | 444.4  | 436.8  | 405.0  | 349.5  | 305.9  |
| 107.5° | 290.7  | 289.9  | 298.2  | 306.6  | 347.9  | 379.8  | 391.5  | 382.3  | 348.6  | 299.0  | 265.4  |
| 110°   | 253.7  | 254.6  | 261.2  | 267.2  | 305.0  | 335.2  | 343.6  | 336.1  | 298.2  | 254.6  | 230.1  |



REPORT NUMBER: P266559

CATALOG NUMBER: UTLD-AF24-100-D-U-T4W-FP-7027

**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 5°    | 12°   | 15°   | 25°   | 35°   | 45°   | 55°   | 65°   | 75°   | 85°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 224.3 | 224.3 | 229.3 | 234.4 | 261.2 | 290.7 | 300.8 | 289.9 | 253.7 | 216.0 | 200.9 |
| 115°   | 199.2 | 200.0 | 201.6 | 204.2 | 226.8 | 253.7 | 262.1 | 248.7 | 213.3 | 184.8 | 174.7 |
| 117.5° | 177.2 | 177.2 | 178.1 | 180.6 | 194.9 | 219.2 | 225.1 | 210.9 | 180.6 | 157.9 | 153.7 |
| 120°   | 158.8 | 157.9 | 157.2 | 157.9 | 168.1 | 185.7 | 191.6 | 177.2 | 150.3 | 136.9 | 133.6 |
| 122.5° | 141.2 | 141.2 | 139.4 | 140.3 | 142.8 | 156.2 | 160.4 | 147.1 | 126.9 | 118.4 | 117.6 |
| 125°   | 124.3 | 124.3 | 122.7 | 121.8 | 121.0 | 127.6 | 129.4 | 119.4 | 105.0 | 102.4 | 101.7 |
| 127.5° | 108.3 | 109.2 | 106.7 | 105.9 | 102.4 | 103.3 | 104.2 | 95.0  | 86.5  | 87.3  | 88.3  |
| 130°   | 95.0  | 95.0  | 92.4  | 90.6  | 85.7  | 81.4  | 79.8  | 73.9  | 70.5  | 73.9  | 76.4  |
| 132.5° | 82.4  | 80.7  | 79.1  | 77.3  | 69.7  | 63.9  | 60.5  | 55.4  | 57.1  | 62.2  | 64.7  |
| 135°   | 68.9  | 68.0  | 65.5  | 64.7  | 57.1  | 47.9  | 42.0  | 40.3  | 45.4  | 51.3  | 52.9  |
| 137.5° | 56.4  | 56.4  | 53.8  | 52.1  | 43.7  | 34.5  | 28.6  | 28.6  | 34.5  | 40.3  | 43.7  |
| 140°   | 44.6  | 44.6  | 42.0  | 40.3  | 32.8  | 23.5  | 17.6  | 18.4  | 25.2  | 31.1  | 33.5  |
| 142.5° | 33.5  | 33.5  | 31.1  | 30.3  | 23.5  | 15.1  | 10.2  | 11.8  | 17.6  | 22.6  | 25.2  |
| 145°   | 24.3  | 23.5  | 21.9  | 21.0  | 15.1  | 9.3   | 5.0   | 6.6   | 10.9  | 15.1  | 17.6  |
| 147.5° | 16.0  | 16.0  | 14.4  | 13.5  | 9.3   | 5.0   | 1.6   | 3.4   | 6.6   | 9.3   | 11.8  |
| 150°   | 9.3   | 9.3   | 8.4   | 7.5   | 5.0   | 1.6   | 0.0   | 1.6   | 3.4   | 5.0   | 6.6   |
| 152.5° | 5.0   | 5.0   | 4.2   | 4.2   | 1.6   | 0.9   | 0.0   | 0.0   | 0.9   | 2.5   | 2.5   |
| 155°   | 1.6   | 1.6   | 1.6   | 1.6   | 0.9   | 0.0   | 0.0   | 0.0   | 0.0   | 0.9   | 0.9   |
| 157.5° | 0.9   | 0.9   | 0.9   | 0.9   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.9   |
| 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: P266559

CATALOG NUMBER: UTLD-AF24-100-D-U-T4W-FP-7027

**CANDELA DISTRIBUTION (continued):**

|        | 90°    | 95°    | 105°  | 115°  | 125°  | 135°  | 145°  | 155°  | 165°  | 175°  | 180°  |
|--------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°     | 358.0  | 358.0  | 358.0 | 358.0 | 358.0 | 358.0 | 358.0 | 358.0 | 358.0 | 358.0 | 358.0 |
| 2.5°   | 359.6  | 357.0  | 352.0 | 347.9 | 343.6 | 338.7 | 336.1 | 333.5 | 331.8 | 330.1 | 330.1 |
| 5°     | 364.6  | 359.6  | 350.2 | 341.0 | 332.7 | 325.1 | 318.4 | 313.4 | 310.9 | 309.1 | 308.3 |
| 7.5°   | 375.5  | 367.9  | 352.9 | 338.7 | 325.9 | 314.1 | 305.0 | 297.3 | 293.1 | 290.7 | 289.9 |
| 10°    | 389.9  | 378.9  | 359.6 | 340.3 | 323.5 | 308.3 | 295.7 | 286.5 | 280.6 | 278.0 | 276.4 |
| 12.5°  | 409.2  | 395.8  | 370.6 | 346.1 | 324.3 | 305.9 | 289.9 | 279.7 | 274.0 | 270.5 | 270.5 |
| 15°    | 438.6  | 420.9  | 389.9 | 357.0 | 330.1 | 307.5 | 289.9 | 279.0 | 274.7 | 273.1 | 272.1 |
| 17.5°  | 472.1  | 451.9  | 414.2 | 376.4 | 342.0 | 313.4 | 297.3 | 290.7 | 284.9 | 282.2 | 282.2 |
| 20°    | 509.1  | 484.7  | 441.1 | 398.2 | 359.6 | 330.1 | 312.5 | 301.7 | 295.0 | 292.4 | 291.5 |
| 22.5°  | 546.1  | 520.8  | 469.6 | 420.9 | 378.0 | 352.0 | 326.9 | 313.4 | 305.0 | 301.7 | 300.8 |
| 25°    | 588.1  | 560.4  | 499.8 | 445.3 | 404.1 | 374.8 | 345.3 | 325.9 | 315.0 | 310.9 | 310.1 |
| 27.5°  | 633.5  | 600.6  | 533.6 | 471.3 | 429.3 | 394.9 | 362.0 | 336.1 | 325.1 | 320.1 | 319.3 |
| 30°    | 680.6  | 644.4  | 567.1 | 498.2 | 453.6 | 412.5 | 378.0 | 348.6 | 334.3 | 328.5 | 327.6 |
| 32.5°  | 730.1  | 687.3  | 603.2 | 530.1 | 476.3 | 428.5 | 391.5 | 360.4 | 342.8 | 336.1 | 336.1 |
| 35°    | 785.6  | 736.0  | 638.5 | 559.6 | 497.3 | 444.4 | 403.2 | 371.3 | 350.2 | 343.6 | 343.6 |
| 37.5°  | 838.5  | 784.7  | 676.3 | 591.4 | 516.6 | 457.1 | 412.5 | 381.4 | 358.0 | 349.5 | 349.5 |
| 40°    | 894.7  | 833.4  | 712.4 | 617.6 | 533.6 | 467.1 | 420.9 | 389.0 | 363.8 | 356.2 | 354.6 |
| 42.5°  | 949.4  | 882.1  | 751.2 | 644.4 | 547.7 | 475.6 | 427.7 | 395.8 | 368.8 | 359.6 | 358.8 |
| 45°    | 1006.6 | 930.9  | 788.1 | 666.3 | 559.6 | 481.4 | 430.9 | 399.9 | 374.8 | 362.9 | 361.3 |
| 47.5°  | 1056.0 | 977.0  | 824.1 | 685.5 | 568.7 | 484.7 | 433.5 | 403.2 | 378.0 | 364.6 | 362.9 |
| 50°    | 1105.6 | 1018.3 | 854.4 | 701.5 | 573.7 | 486.4 | 434.3 | 404.1 | 380.6 | 364.6 | 362.9 |
| 52.5°  | 1150.2 | 1056.9 | 880.5 | 712.4 | 576.4 | 485.7 | 433.5 | 404.1 | 381.4 | 362.9 | 361.3 |
| 55°    | 1187.1 | 1087.9 | 898.9 | 719.2 | 576.4 | 483.1 | 430.9 | 402.4 | 380.6 | 361.3 | 358.8 |
| 57.5°  | 1214.9 | 1109.0 | 911.6 | 720.8 | 572.1 | 478.1 | 426.8 | 399.9 | 378.0 | 358.0 | 354.6 |
| 60°    | 1231.7 | 1120.7 | 915.7 | 716.7 | 565.5 | 472.1 | 421.8 | 396.5 | 375.5 | 352.9 | 350.2 |
| 62.5°  | 1236.6 | 1122.4 | 911.6 | 708.3 | 556.2 | 463.7 | 414.2 | 390.7 | 370.6 | 346.9 | 344.5 |
| 65°    | 1228.3 | 1113.2 | 899.8 | 694.7 | 543.6 | 453.6 | 406.7 | 383.9 | 364.6 | 340.3 | 337.8 |
| 67.5°  | 1205.6 | 1093.0 | 878.8 | 676.3 | 529.3 | 442.0 | 398.2 | 376.4 | 358.0 | 332.7 | 327.6 |
| 70°    | 1172.0 | 1062.8 | 852.0 | 653.6 | 512.6 | 429.3 | 388.2 | 367.1 | 348.6 | 324.3 | 319.3 |
| 72.5°  | 1123.3 | 1021.6 | 816.6 | 625.8 | 493.2 | 415.8 | 375.5 | 356.2 | 338.7 | 314.1 | 307.5 |
| 75°    | 1064.4 | 968.7  | 774.6 | 597.4 | 473.0 | 399.9 | 362.9 | 344.5 | 326.9 | 302.5 | 296.6 |
| 77.5°  | 998.9  | 913.2  | 729.2 | 564.6 | 449.5 | 383.9 | 349.5 | 331.8 | 313.4 | 289.9 | 281.4 |
| 80°    | 927.5  | 848.5  | 679.7 | 531.0 | 427.7 | 366.2 | 334.3 | 317.6 | 299.0 | 276.4 | 267.2 |
| 82.5°  | 850.2  | 781.3  | 630.2 | 497.3 | 403.2 | 348.6 | 319.3 | 302.5 | 283.1 | 261.2 | 252.1 |
| 85°    | 774.6  | 712.4  | 578.0 | 461.2 | 379.8 | 330.1 | 302.5 | 285.7 | 268.1 | 245.3 | 237.0 |
| 87.5°  | 696.5  | 642.6  | 526.8 | 425.9 | 356.2 | 312.5 | 286.5 | 268.9 | 250.4 | 229.3 | 222.6 |
| 90°    | 628.5  | 577.3  | 478.8 | 392.3 | 331.8 | 293.1 | 269.8 | 251.2 | 233.6 | 213.3 | 207.5 |
| 92.5°  | 556.2  | 514.2  | 431.8 | 360.4 | 309.1 | 274.7 | 253.0 | 235.3 | 216.0 | 196.5 | 192.3 |
| 95°    | 494.0  | 459.6  | 389.0 | 328.5 | 284.9 | 257.1 | 236.1 | 217.6 | 198.3 | 179.8 | 177.2 |
| 97.5°  | 434.3  | 405.8  | 346.9 | 299.0 | 263.8 | 238.6 | 218.5 | 200.9 | 180.6 | 163.9 | 162.1 |
| 100°   | 381.4  | 356.2  | 309.1 | 272.1 | 241.1 | 221.0 | 202.5 | 184.1 | 163.9 | 148.0 | 148.0 |
| 102.5° | 332.7  | 313.4  | 275.6 | 244.5 | 221.0 | 201.6 | 184.8 | 166.4 | 146.2 | 132.7 | 133.6 |
| 105°   | 293.1  | 274.7  | 243.6 | 220.2 | 200.9 | 183.2 | 167.2 | 148.7 | 129.4 | 118.4 | 119.4 |
| 107.5° | 255.4  | 241.1  | 216.0 | 195.7 | 180.6 | 166.4 | 149.6 | 132.0 | 112.6 | 105.9 | 106.7 |
| 110°   | 222.6  | 211.7  | 191.6 | 174.7 | 163.0 | 149.6 | 134.4 | 115.9 | 98.4  | 94.1  | 94.1  |



REPORT NUMBER: P266559

CATALOG NUMBER: UTLD-AF24-100-D-U-T4W-FP-7027

**CANDELA DISTRIBUTION (continued):**

|        | 90°   | 95°   | 105°  | 115°  | 125°  | 135°  | 145°  | 155°  | 165° | 175° | 180° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|------|
| 112.5° | 194.0 | 184.8 | 169.7 | 156.2 | 144.4 | 133.6 | 117.6 | 100.8 | 84.0 | 82.4 | 82.4 |
| 115°   | 169.7 | 163.0 | 148.7 | 137.8 | 129.4 | 118.4 | 104.2 | 86.5  | 73.1 | 72.3 | 73.1 |
| 117.5° | 148.7 | 142.8 | 131.1 | 121.8 | 114.3 | 104.2 | 90.6  | 73.9  | 62.2 | 63.1 | 63.9 |
| 120°   | 130.3 | 126.0 | 115.9 | 108.3 | 100.8 | 91.5  | 77.3  | 62.2  | 54.5 | 55.4 | 55.4 |
| 122.5° | 115.2 | 110.9 | 102.4 | 95.0  | 88.3  | 79.1  | 66.4  | 52.1  | 47.0 | 48.7 | 48.7 |
| 125°   | 100.0 | 97.5  | 89.0  | 82.4  | 75.5  | 66.4  | 54.5  | 42.8  | 40.3 | 42.0 | 42.0 |
| 127.5° | 86.5  | 84.9  | 78.2  | 70.5  | 63.9  | 55.4  | 44.6  | 35.4  | 34.5 | 36.1 | 36.1 |
| 130°   | 74.7  | 73.1  | 67.3  | 60.5  | 52.9  | 45.4  | 34.5  | 28.6  | 29.5 | 31.1 | 31.9 |
| 132.5° | 63.9  | 63.1  | 57.1  | 49.5  | 42.8  | 35.4  | 26.9  | 23.5  | 25.2 | 26.9 | 26.9 |
| 135°   | 52.9  | 52.1  | 47.9  | 41.1  | 33.5  | 26.9  | 20.1  | 18.4  | 21.0 | 22.6 | 22.6 |
| 137.5° | 43.7  | 42.0  | 38.6  | 31.9  | 25.2  | 19.4  | 14.4  | 15.1  | 16.8 | 18.4 | 18.4 |
| 140°   | 34.5  | 33.5  | 30.3  | 24.3  | 17.6  | 12.5  | 10.2  | 11.8  | 14.4 | 15.1 | 15.1 |
| 142.5° | 25.2  | 25.2  | 21.9  | 16.8  | 10.9  | 7.5   | 6.6   | 8.4   | 10.9 | 11.8 | 11.8 |
| 145°   | 17.6  | 17.6  | 15.1  | 10.9  | 6.6   | 3.4   | 3.4   | 5.8   | 7.5  | 8.4  | 9.3  |
| 147.5° | 11.8  | 10.9  | 9.3   | 6.6   | 3.4   | 0.9   | 1.6   | 4.2   | 5.0  | 5.8  | 5.8  |
| 150°   | 6.6   | 6.6   | 5.0   | 3.4   | 1.6   | 0.0   | 0.9   | 1.6   | 2.5  | 3.4  | 4.2  |
| 152.5° | 2.5   | 2.5   | 1.6   | 0.9   | 0.9   | 0.0   | 0.0   | 0.0   | 0.9  | 1.6  | 1.6  |
| 155°   | 0.9   | 0.9   | 0.9   | 0.9   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0  | 0.0  |
| 157.5° | 0.9   | 0.0   | 0.9   | 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  |

(END OF REPORT)