

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: P240149

Luminaire Tested: **UTLD-AF24-60-D-U-T3-FP-7030**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P240149
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-25)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 5/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: UTLD-AF24-60-D-U-T3-FP-7030
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 3000K, 800mA LIGHT ENGINE WITH 24 LEDS AND TYPE III OPTICS
AND FROSTED LENS PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5362.4 lumens
Efficiency: N/A
Efficacy: 83.8 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: B1 - U3 - G3

Input Watts (W): 64
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

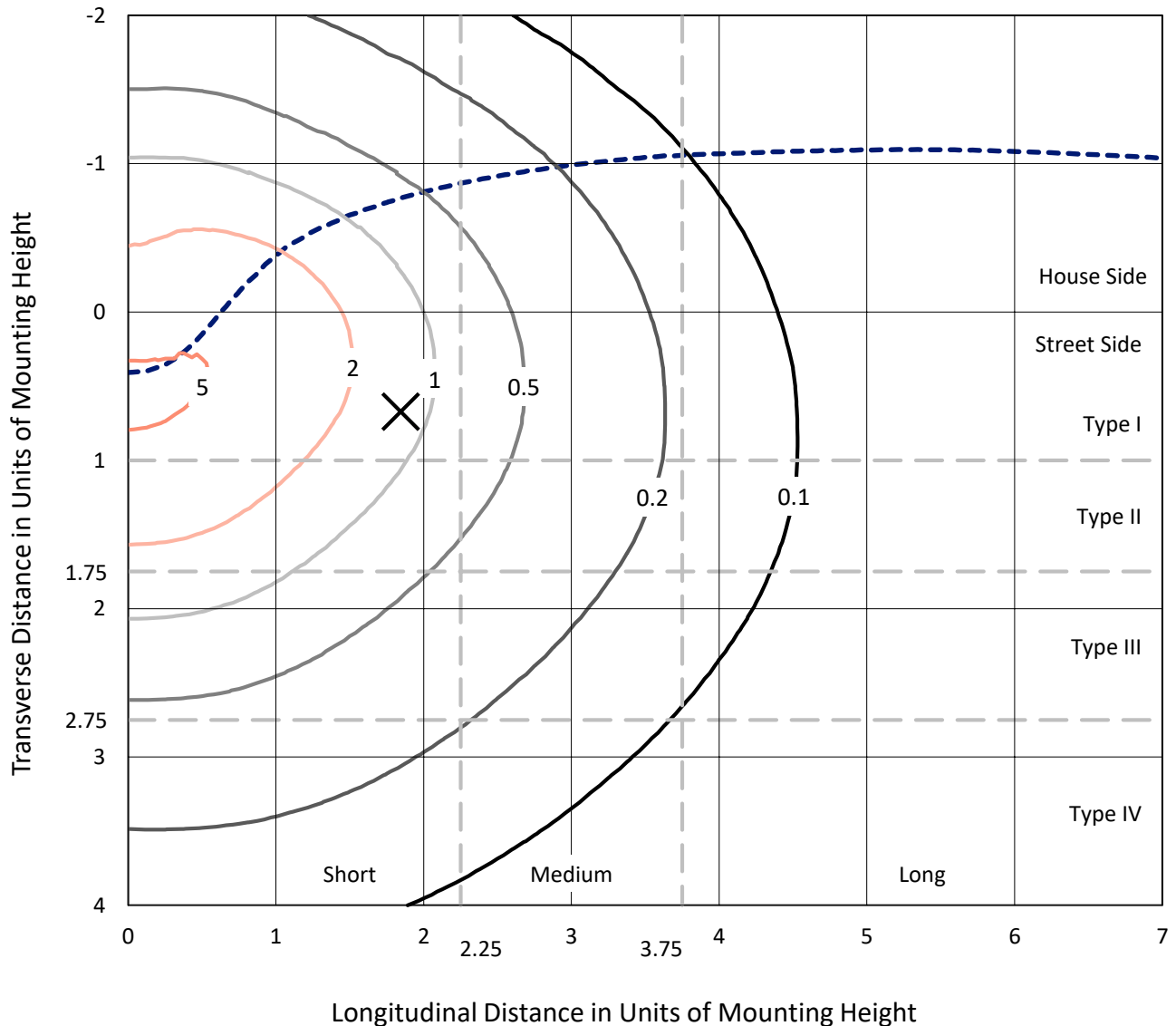




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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

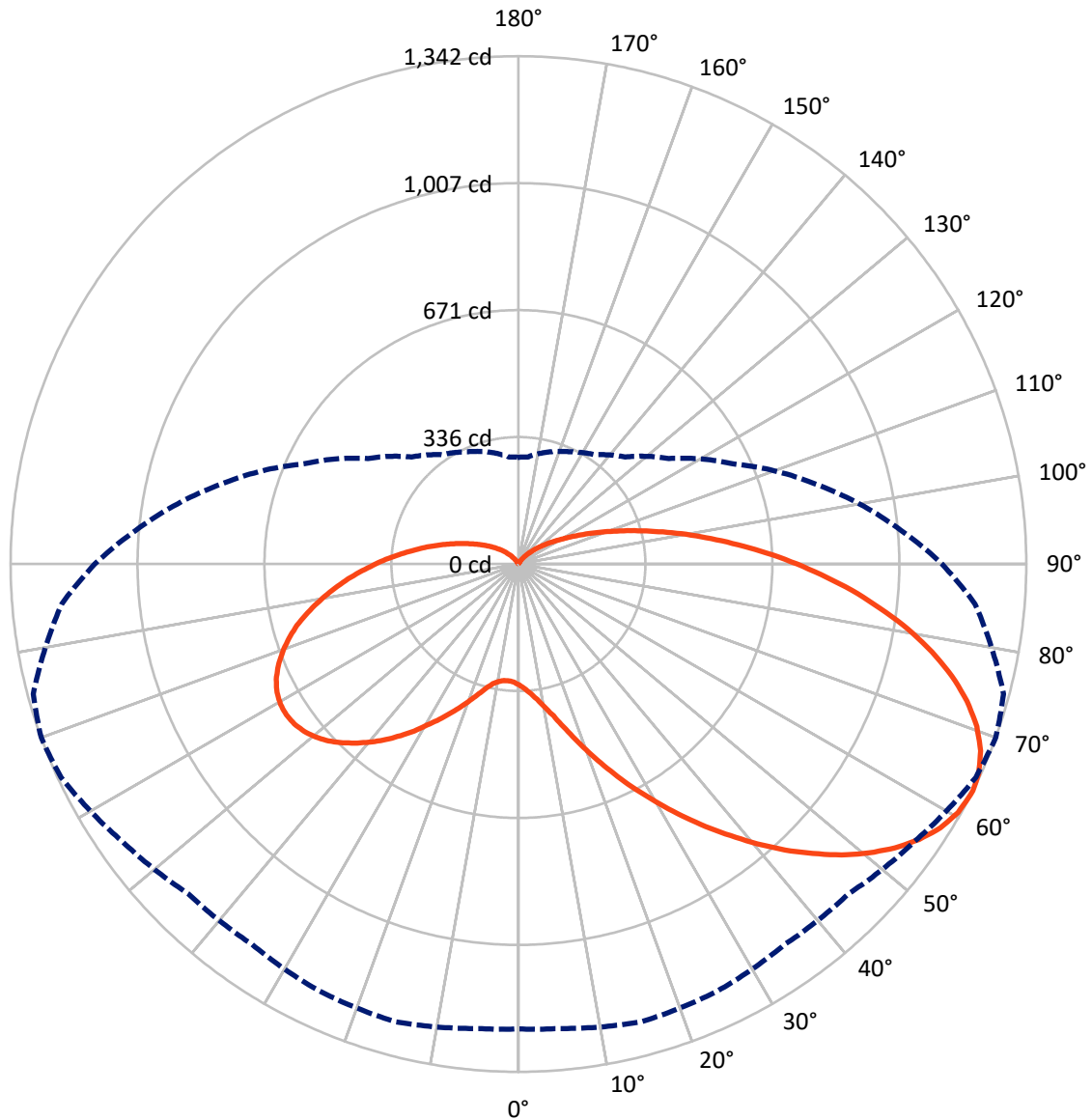


Based on 10 foot mounting height. Maximum calculated value = 5.5 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral - - - Horizontal Cone Through 63-Deg Vertical



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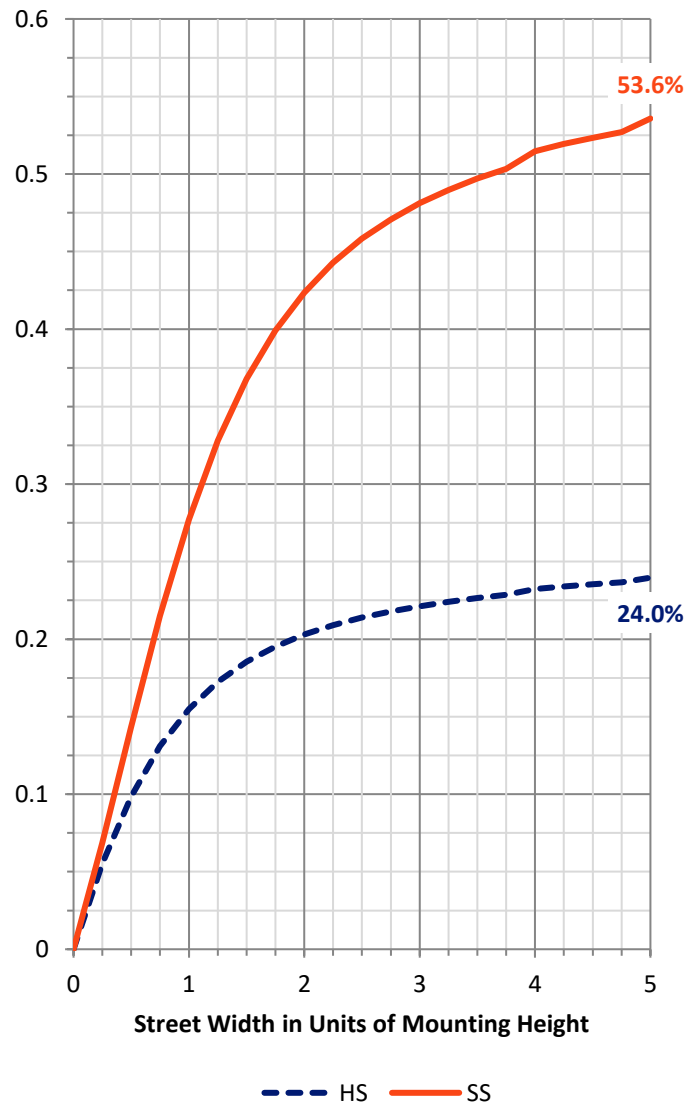
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1370.7 | 310.3 | 1680.9 |
| | % Fixture | 25.6 | 5.8 | 31.3 |
| Street Side | Lumens | 3098.5 | 582.9 | 3681.5 |
| | % Fixture | 57.8 | 10.9 | 68.7 |
| Total | Lumens | 4469.2 | 893.2 | 5362.4 |
| | % Fixture | 83.3 | 16.7 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 31.8 | 0.6 |
| 10°-20° | 111.9 | 2.1 |
| 20°-30° | 240.3 | 4.5 |
| 30°-40° | 418.8 | 7.8 |
| 40°-50° | 622.3 | 11.6 |
| 50°-60° | 794.6 | 14.8 |
| 60°-70° | 861.5 | 16.1 |
| 70°-80° | 784.5 | 14.6 |
| 80°-90° | 603.5 | 11.3 |
| 90°-100° | 404.8 | 7.5 |
| 100°-110° | 245.3 | 4.6 |
| 110°-120° | 136.9 | 2.6 |
| 120°-130° | 69.5 | 1.3 |
| 130°-140° | 28.8 | 0.5 |
| 140°-150° | 7.3 | 0.1 |
| 150°-160° | 0.5 | 0.0 |
| 160°-170° | 0.0 | 0.0 |
| 170°-180° | 0.0 | 0.0 |
| 0°-90° | 4469.2 | 83.3 |
| 0°-180° | 5362.4 | 100.0 |



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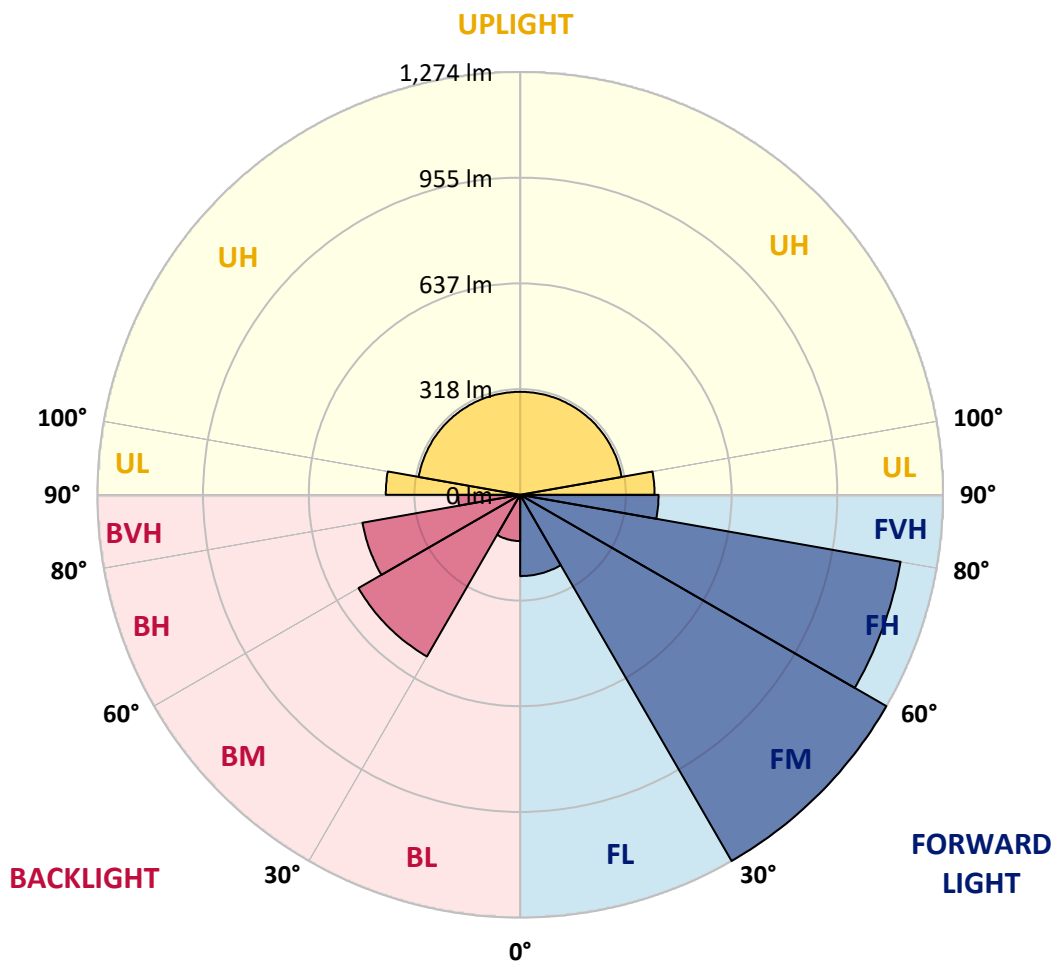
CATALOG NUMBER: UTLD-AF24-60-D-U-T3-FP-7030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|--------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 244.8 | 4.6 | | | |
| FM | (30°-60°) | 1273.6 | 23.8 | | | |
| FH | (60°-80°) | 1163.5 | 21.7 | | | G1/1800 |
| FVH | (80°-90°) | 416.7 | 7.8 | | | G3/500 |
| BL | (0°-30°) | 139.2 | 2.6 | B1/500 | | |
| BM | (30°-60°) | 562.1 | 10.5 | B1/1000 | | |
| BH | (60°-80°) | 482.5 | 9.0 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 186.8 | 3.5 | | | G2/225 |
| UL | (90°-100°) | 404.8 | 7.5 | | U3/500 | |
| UH | (100°-180°) | 310.3 | 5.8 | | U3/500 | |

BUG Rating: B1-U3-G3

Type IV Short





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CATALOG NUMBER: UTLD-AF24-60-D-U-T3-FP-7030

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 70° | 75° | 85° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 320.0 | 320.0 | 320.0 | 320.0 | 320.0 | 320.0 | 320.0 | 320.0 | 320.0 | 320.0 | 320.0 |
| 2.5° | 346.1 | 346.1 | 345.4 | 344.7 | 342.5 | 339.7 | 335.5 | 332.7 | 329.9 | 327.8 | 323.5 |
| 5° | 375.7 | 377.1 | 374.3 | 372.9 | 367.8 | 362.3 | 355.9 | 348.2 | 344.7 | 339.7 | 331.3 |
| 7.5° | 407.4 | 408.8 | 406.0 | 402.5 | 396.2 | 387.7 | 377.8 | 367.8 | 361.5 | 355.2 | 342.5 |
| 10° | 442.6 | 443.4 | 439.8 | 435.6 | 427.9 | 417.3 | 406.7 | 391.9 | 384.8 | 376.4 | 359.5 |
| 12.5° | 482.2 | 480.7 | 477.9 | 470.8 | 461.6 | 450.3 | 436.3 | 421.5 | 411.6 | 401.7 | 380.7 |
| 15° | 527.1 | 526.5 | 521.6 | 513.1 | 501.8 | 489.2 | 472.2 | 456.0 | 446.3 | 435.6 | 410.3 |
| 17.5° | 574.4 | 573.1 | 568.1 | 558.2 | 546.3 | 530.0 | 517.4 | 498.3 | 486.3 | 475.1 | 446.3 |
| 20° | 621.6 | 620.9 | 617.5 | 606.2 | 592.7 | 580.0 | 563.1 | 543.4 | 531.4 | 515.9 | 482.8 |
| 22.5° | 676.0 | 673.8 | 668.2 | 658.3 | 647.1 | 634.4 | 616.8 | 592.0 | 578.6 | 563.9 | 524.5 |
| 25° | 730.2 | 729.6 | 722.4 | 712.0 | 702.7 | 688.7 | 671.7 | 642.8 | 629.5 | 609.0 | 566.7 |
| 27.5° | 786.5 | 785.2 | 778.2 | 766.9 | 759.8 | 746.5 | 725.3 | 697.1 | 680.9 | 661.1 | 613.9 |
| 30° | 845.1 | 844.3 | 836.0 | 824.7 | 816.9 | 804.2 | 782.4 | 752.0 | 735.9 | 714.0 | 661.1 |
| 32.5° | 903.6 | 903.6 | 895.2 | 885.3 | 876.1 | 859.9 | 839.4 | 810.6 | 793.0 | 769.7 | 710.5 |
| 35° | 965.0 | 961.4 | 955.0 | 945.8 | 931.1 | 914.9 | 896.6 | 870.5 | 852.1 | 826.8 | 764.0 |
| 37.5° | 1022.7 | 1022.7 | 1012.2 | 1004.4 | 988.1 | 969.9 | 953.0 | 931.1 | 910.6 | 886.0 | 816.1 |
| 40° | 1079.8 | 1080.6 | 1070.6 | 1060.8 | 1039.6 | 1022.7 | 1007.9 | 990.3 | 972.0 | 946.6 | 873.3 |
| 42.5° | 1134.7 | 1133.3 | 1124.3 | 1113.0 | 1089.7 | 1070.6 | 1061.5 | 1046.7 | 1033.3 | 1006.5 | 928.2 |
| 45° | 1185.6 | 1182.0 | 1175.0 | 1161.5 | 1134.7 | 1115.7 | 1112.3 | 1105.1 | 1091.1 | 1067.1 | 984.0 |
| 47.5° | 1225.1 | 1222.9 | 1220.1 | 1202.5 | 1175.0 | 1156.6 | 1156.6 | 1159.5 | 1148.9 | 1124.3 | 1036.1 |
| 50° | 1257.5 | 1256.7 | 1255.3 | 1235.6 | 1206.0 | 1191.9 | 1197.5 | 1207.5 | 1200.3 | 1178.5 | 1082.6 |
| 52.5° | 1279.3 | 1278.6 | 1280.7 | 1260.3 | 1231.4 | 1218.7 | 1232.1 | 1251.8 | 1246.2 | 1226.4 | 1127.0 |
| 55° | 1287.7 | 1287.7 | 1294.0 | 1275.0 | 1246.2 | 1236.3 | 1258.1 | 1285.7 | 1284.9 | 1267.3 | 1160.9 |
| 57.5° | 1284.3 | 1284.9 | 1296.3 | 1278.6 | 1251.8 | 1246.2 | 1275.0 | 1312.4 | 1315.3 | 1297.7 | 1189.1 |
| 60° | 1268.1 | 1268.7 | 1284.3 | 1270.8 | 1247.5 | 1246.2 | 1282.8 | 1328.6 | 1334.3 | 1318.8 | 1205.2 |
| 62.5° | 1237.1 | 1239.9 | 1258.8 | 1250.4 | 1231.4 | 1236.3 | 1280.0 | 1333.6 | 1341.2 | 1326.5 | 1211.5 |
| 63° | 1228.5 | 1232.1 | 1252.5 | 1244.8 | 1227.1 | 1232.8 | 1277.9 | 1333.6 | 1342.0 | 1327.2 | 1211.5 |
| 65° | 1193.9 | 1198.2 | 1221.5 | 1218.0 | 1205.2 | 1215.8 | 1265.9 | 1325.9 | 1336.4 | 1323.0 | 1205.2 |
| 67.5° | 1138.4 | 1146.7 | 1173.6 | 1176.4 | 1170.0 | 1186.2 | 1241.1 | 1306.0 | 1317.3 | 1304.7 | 1186.2 |
| 70° | 1071.4 | 1081.2 | 1115.7 | 1124.3 | 1122.8 | 1146.7 | 1205.2 | 1273.0 | 1284.9 | 1272.3 | 1153.8 |
| 72.5° | 999.5 | 1012.9 | 1044.6 | 1062.9 | 1072.1 | 1098.2 | 1160.9 | 1227.8 | 1239.9 | 1226.4 | 1110.8 |
| 75° | 921.3 | 935.4 | 974.8 | 997.3 | 1011.4 | 1043.9 | 1105.9 | 1172.9 | 1183.4 | 1172.9 | 1056.5 |
| 77.5° | 843.1 | 857.1 | 897.2 | 926.2 | 948.1 | 986.8 | 1048.2 | 1109.4 | 1117.1 | 1105.9 | 993.1 |
| 80° | 762.6 | 778.8 | 817.6 | 851.4 | 881.0 | 919.9 | 979.1 | 1034.6 | 1043.9 | 1029.1 | 924.8 |
| 82.5° | 683.0 | 697.1 | 740.8 | 780.2 | 812.1 | 850.7 | 907.2 | 959.3 | 963.5 | 948.7 | 849.4 |
| 85° | 611.1 | 623.1 | 666.1 | 708.3 | 745.7 | 783.8 | 836.0 | 877.6 | 883.9 | 864.9 | 774.6 |
| 87.5° | 543.4 | 552.7 | 597.7 | 639.2 | 677.4 | 719.7 | 766.1 | 799.3 | 799.3 | 784.5 | 696.4 |
| 90° | 480.7 | 487.1 | 527.9 | 573.7 | 614.6 | 651.9 | 695.7 | 723.9 | 720.3 | 702.0 | 623.1 |
| 92.5° | 420.1 | 427.9 | 468.0 | 511.8 | 553.3 | 592.0 | 627.2 | 646.4 | 641.5 | 622.3 | 552.7 |
| 95° | 370.1 | 373.5 | 413.0 | 458.2 | 496.2 | 531.4 | 562.4 | 575.9 | 568.1 | 549.0 | 482.8 |
| 97.5° | 324.3 | 327.0 | 361.5 | 404.6 | 445.4 | 477.9 | 499.0 | 507.5 | 499.8 | 480.7 | 425.7 |
| 100° | 287.0 | 287.6 | 318.6 | 360.2 | 398.2 | 426.4 | 445.4 | 445.4 | 438.4 | 419.3 | 369.3 |
| 102.5° | 250.2 | 251.7 | 277.0 | 318.6 | 354.5 | 379.2 | 394.0 | 392.6 | 379.9 | 360.9 | 320.6 |
| 105° | 220.6 | 222.1 | 241.8 | 281.9 | 314.3 | 336.9 | 348.9 | 340.5 | 328.5 | 311.5 | 277.7 |
| 107.5° | 194.6 | 195.2 | 210.8 | 246.7 | 277.7 | 298.9 | 305.2 | 296.0 | 282.7 | 266.5 | 242.4 |



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CATALOG NUMBER: UTLD-AF24-60-D-U-T3-FP-7030

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 70° | 75° | 85° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 110° | 174.0 | 173.4 | 185.4 | 216.4 | 246.0 | 263.7 | 267.1 | 255.8 | 242.4 | 229.1 | 209.3 |
| 112.5° | 154.4 | 154.4 | 162.1 | 188.2 | 215.7 | 232.6 | 234.1 | 217.8 | 206.5 | 194.6 | 181.8 |
| 115° | 138.1 | 137.4 | 143.1 | 163.6 | 188.9 | 203.0 | 201.6 | 186.9 | 176.2 | 166.3 | 157.9 |
| 117.5° | 124.0 | 122.6 | 126.8 | 141.0 | 164.2 | 177.6 | 174.0 | 157.3 | 149.4 | 142.4 | 137.4 |
| 120° | 111.3 | 110.7 | 112.7 | 122.6 | 141.0 | 151.6 | 148.0 | 133.2 | 126.2 | 122.6 | 119.8 |
| 122.5° | 100.1 | 100.1 | 99.4 | 105.8 | 119.8 | 128.3 | 123.4 | 111.3 | 107.2 | 105.0 | 105.0 |
| 125° | 90.2 | 90.2 | 88.8 | 90.9 | 100.1 | 107.2 | 102.9 | 93.1 | 90.2 | 90.2 | 90.9 |
| 127.5° | 80.3 | 80.3 | 79.0 | 78.2 | 82.5 | 87.4 | 82.5 | 76.8 | 76.2 | 76.8 | 78.2 |
| 130° | 71.2 | 70.5 | 69.1 | 66.2 | 66.9 | 69.1 | 65.5 | 62.8 | 63.5 | 65.5 | 66.9 |
| 132.5° | 62.8 | 62.1 | 59.9 | 55.7 | 52.9 | 52.9 | 50.0 | 50.0 | 52.1 | 54.3 | 57.2 |
| 135° | 54.3 | 53.5 | 51.5 | 46.6 | 41.6 | 38.8 | 36.6 | 39.5 | 42.3 | 44.4 | 47.2 |
| 137.5° | 45.8 | 45.2 | 42.3 | 37.3 | 31.0 | 26.8 | 26.1 | 30.3 | 33.1 | 35.9 | 38.0 |
| 140° | 37.3 | 36.6 | 33.9 | 28.9 | 21.9 | 16.9 | 16.9 | 22.5 | 25.3 | 27.6 | 30.3 |
| 142.5° | 29.6 | 28.9 | 26.8 | 21.2 | 14.1 | 10.6 | 11.3 | 16.2 | 18.3 | 20.4 | 22.5 |
| 145° | 21.9 | 21.9 | 19.7 | 14.7 | 8.4 | 4.9 | 6.3 | 10.6 | 12.7 | 14.1 | 16.2 |
| 147.5° | 14.7 | 14.7 | 12.7 | 9.2 | 4.9 | 2.0 | 2.8 | 6.3 | 7.7 | 9.2 | 10.6 |
| 150° | 9.2 | 9.2 | 7.7 | 4.9 | 2.0 | 0.0 | 1.4 | 2.8 | 4.3 | 4.9 | 6.3 |
| 152.5° | 4.9 | 4.9 | 3.5 | 2.0 | 0.6 | 0.0 | 0.0 | 1.4 | 1.4 | 2.0 | 2.8 |
| 155° | 2.0 | 1.4 | 1.4 | 0.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.6 | 0.6 | 0.6 |
| 157.5° | 0.6 | 0.0 | 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 |



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CATALOG NUMBER: UTLD-AF24-60-D-U-T3-FP-7030

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|--------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 320.0 | 320.0 | 320.0 | 320.0 | 320.0 | 320.0 | 320.0 | 320.0 | 320.0 | 320.0 | 320.0 |
| 2.5° | 321.4 | 319.2 | 314.3 | 310.9 | 306.6 | 303.0 | 301.0 | 297.4 | 295.3 | 296.0 | 295.3 |
| 5° | 327.0 | 322.9 | 313.7 | 305.9 | 297.4 | 290.4 | 284.7 | 279.8 | 277.0 | 274.9 | 275.6 |
| 7.5° | 336.2 | 329.9 | 316.6 | 303.7 | 291.0 | 280.6 | 272.0 | 265.7 | 260.0 | 258.7 | 258.0 |
| 10° | 350.2 | 341.9 | 322.9 | 305.9 | 289.6 | 274.9 | 263.7 | 254.5 | 248.8 | 246.0 | 246.0 |
| 12.5° | 370.1 | 358.1 | 334.2 | 311.5 | 291.0 | 272.8 | 258.7 | 247.4 | 241.0 | 238.1 | 237.5 |
| 15° | 397.4 | 382.7 | 353.1 | 322.9 | 296.7 | 274.9 | 258.0 | 246.7 | 241.8 | 240.4 | 239.6 |
| 17.5° | 429.3 | 413.0 | 376.4 | 341.1 | 308.0 | 280.6 | 264.3 | 255.1 | 249.5 | 246.7 | 246.0 |
| 20° | 465.2 | 444.0 | 402.5 | 361.5 | 324.3 | 295.3 | 277.0 | 264.3 | 257.3 | 253.7 | 253.1 |
| 22.5° | 501.8 | 478.5 | 430.7 | 383.4 | 342.5 | 315.8 | 289.6 | 274.1 | 264.3 | 260.0 | 258.7 |
| 25° | 541.3 | 515.2 | 459.6 | 406.7 | 365.2 | 334.8 | 305.2 | 282.7 | 271.4 | 266.5 | 266.5 |
| 27.5° | 583.7 | 553.3 | 489.9 | 430.7 | 388.4 | 352.5 | 320.0 | 291.8 | 278.4 | 272.8 | 272.0 |
| 30° | 628.0 | 594.2 | 520.8 | 456.7 | 410.3 | 368.6 | 332.7 | 301.7 | 285.5 | 279.1 | 278.4 |
| 32.5° | 676.0 | 637.2 | 555.4 | 484.9 | 430.7 | 383.4 | 343.9 | 310.9 | 291.8 | 284.1 | 283.3 |
| 35° | 723.2 | 679.5 | 587.9 | 512.4 | 448.9 | 396.2 | 353.1 | 320.0 | 296.7 | 289.0 | 288.3 |
| 37.5° | 775.3 | 724.6 | 622.3 | 539.2 | 465.9 | 406.0 | 360.9 | 327.0 | 301.7 | 293.3 | 291.8 |
| 40° | 825.4 | 768.9 | 654.8 | 563.1 | 479.9 | 415.1 | 367.2 | 333.3 | 305.9 | 296.7 | 295.3 |
| 42.5° | 874.7 | 814.1 | 687.2 | 585.7 | 492.0 | 420.7 | 371.5 | 337.6 | 310.1 | 299.6 | 297.4 |
| 45° | 924.0 | 856.4 | 720.3 | 604.1 | 501.2 | 425.7 | 374.3 | 341.1 | 313.7 | 301.0 | 299.6 |
| 47.5° | 969.9 | 898.0 | 750.6 | 620.3 | 507.5 | 427.9 | 375.7 | 342.5 | 316.6 | 301.7 | 299.6 |
| 50° | 1013.6 | 933.9 | 776.1 | 632.3 | 511.8 | 427.9 | 375.7 | 343.3 | 317.8 | 301.7 | 300.3 |
| 52.5° | 1051.6 | 965.0 | 796.5 | 640.0 | 512.4 | 425.7 | 373.5 | 342.5 | 317.8 | 300.3 | 298.2 |
| 55° | 1080.6 | 990.3 | 811.2 | 643.5 | 510.4 | 422.2 | 370.1 | 340.5 | 317.2 | 298.2 | 296.0 |
| 57.5° | 1103.7 | 1007.9 | 820.4 | 642.8 | 505.4 | 416.6 | 365.8 | 337.6 | 315.1 | 294.7 | 292.5 |
| 60° | 1117.8 | 1017.1 | 821.8 | 637.8 | 498.3 | 409.5 | 360.2 | 333.3 | 312.3 | 291.0 | 288.3 |
| 62.5° | 1120.0 | 1016.4 | 816.9 | 628.0 | 487.8 | 401.1 | 353.1 | 327.8 | 307.3 | 285.5 | 282.7 |
| 63° | 1119.3 | 1015.7 | 814.1 | 625.9 | 485.6 | 399.7 | 352.5 | 327.0 | 306.6 | 284.1 | 281.9 |
| 65° | 1111.5 | 1007.3 | 803.5 | 614.6 | 475.9 | 391.1 | 346.1 | 321.4 | 302.4 | 279.8 | 276.3 |
| 67.5° | 1091.1 | 988.1 | 783.8 | 595.6 | 461.0 | 379.9 | 336.9 | 314.3 | 295.3 | 272.8 | 269.3 |
| 70° | 1060.1 | 961.4 | 756.9 | 574.4 | 445.4 | 367.8 | 327.0 | 305.2 | 287.6 | 265.1 | 260.8 |
| 72.5° | 1018.6 | 922.7 | 726.0 | 549.8 | 427.1 | 354.5 | 315.8 | 295.3 | 277.7 | 256.5 | 250.2 |
| 75° | 968.5 | 877.6 | 691.5 | 523.1 | 407.4 | 340.5 | 304.5 | 285.5 | 267.8 | 246.7 | 240.4 |
| 77.5° | 908.5 | 826.1 | 648.5 | 494.8 | 388.4 | 325.6 | 291.8 | 273.4 | 256.5 | 235.5 | 229.1 |
| 80° | 844.3 | 768.9 | 605.6 | 463.0 | 367.2 | 310.1 | 279.1 | 260.8 | 243.8 | 224.1 | 216.4 |
| 82.5° | 776.8 | 707.7 | 559.6 | 432.7 | 346.1 | 293.9 | 265.7 | 247.4 | 231.2 | 212.2 | 205.1 |
| 85° | 708.3 | 646.4 | 515.2 | 402.5 | 324.3 | 278.4 | 251.7 | 234.7 | 217.1 | 198.8 | 191.7 |
| 87.5° | 640.7 | 586.4 | 472.2 | 370.7 | 303.7 | 262.9 | 237.5 | 220.6 | 203.0 | 185.4 | 179.7 |
| 90° | 575.9 | 528.6 | 427.1 | 341.1 | 282.7 | 246.0 | 223.4 | 206.5 | 189.6 | 172.0 | 166.3 |
| 92.5° | 511.0 | 470.2 | 386.2 | 314.3 | 262.9 | 230.5 | 209.3 | 192.4 | 174.9 | 157.9 | 154.4 |
| 95° | 453.2 | 418.0 | 347.5 | 285.5 | 243.8 | 215.7 | 195.2 | 179.0 | 160.7 | 144.4 | 142.4 |
| 97.5° | 398.9 | 368.6 | 309.4 | 260.8 | 224.8 | 199.5 | 181.2 | 164.2 | 145.9 | 131.1 | 129.7 |
| 100° | 350.2 | 325.6 | 277.0 | 235.5 | 205.9 | 184.6 | 167.7 | 150.9 | 132.5 | 119.8 | 118.4 |
| 102.5° | 305.9 | 286.2 | 246.7 | 212.8 | 188.9 | 169.9 | 153.0 | 136.8 | 119.1 | 107.8 | 107.8 |
| 105° | 267.8 | 250.2 | 218.5 | 191.7 | 171.3 | 154.4 | 138.9 | 122.6 | 105.0 | 95.8 | 95.8 |
| 107.5° | 231.8 | 219.9 | 193.8 | 171.3 | 155.0 | 140.3 | 125.4 | 109.3 | 92.4 | 85.3 | 86.0 |



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|--------|-------|-------|-------|-------|-------|-------|-------|------|------|------|------|
| 110° | 202.2 | 192.4 | 170.6 | 153.6 | 140.3 | 126.8 | 112.7 | 96.5 | 80.3 | 75.4 | 76.2 |
| 112.5° | 176.2 | 168.5 | 150.1 | 136.8 | 125.4 | 114.1 | 100.1 | 83.9 | 69.8 | 66.9 | 67.6 |
| 115° | 153.6 | 147.3 | 133.2 | 121.3 | 112.1 | 101.5 | 88.8 | 72.5 | 60.6 | 59.2 | 59.2 |
| 117.5° | 134.0 | 129.0 | 117.0 | 107.8 | 99.4 | 90.2 | 77.6 | 62.8 | 52.1 | 52.1 | 52.1 |
| 120° | 117.7 | 113.5 | 103.6 | 95.2 | 88.1 | 79.0 | 66.9 | 52.9 | 45.2 | 45.8 | 45.8 |
| 122.5° | 102.1 | 99.4 | 90.2 | 83.9 | 76.8 | 69.1 | 57.2 | 43.7 | 38.8 | 40.2 | 40.9 |
| 125° | 89.5 | 86.7 | 79.6 | 72.5 | 66.2 | 58.5 | 47.2 | 36.6 | 33.9 | 35.3 | 35.3 |
| 127.5° | 76.8 | 75.4 | 69.1 | 62.8 | 57.2 | 49.3 | 38.8 | 30.3 | 29.6 | 31.0 | 31.0 |
| 130° | 66.2 | 64.9 | 59.9 | 52.9 | 47.2 | 40.2 | 31.0 | 24.7 | 24.7 | 26.1 | 26.1 |
| 132.5° | 56.4 | 55.7 | 50.7 | 44.4 | 38.8 | 31.6 | 24.7 | 19.7 | 21.2 | 22.5 | 22.5 |
| 135° | 46.6 | 46.6 | 42.3 | 35.9 | 30.3 | 23.9 | 18.3 | 16.2 | 17.6 | 19.0 | 19.0 |
| 137.5° | 38.0 | 37.3 | 33.9 | 28.2 | 22.5 | 17.6 | 13.4 | 12.7 | 14.7 | 16.2 | 16.2 |
| 140° | 30.3 | 29.6 | 26.8 | 21.9 | 16.2 | 12.0 | 9.2 | 9.9 | 12.0 | 12.7 | 13.4 |
| 142.5° | 22.5 | 22.5 | 19.7 | 16.2 | 10.6 | 7.1 | 5.7 | 7.7 | 9.2 | 9.9 | 10.6 |
| 145° | 16.2 | 16.2 | 14.1 | 10.6 | 6.3 | 3.5 | 3.5 | 5.7 | 7.1 | 7.7 | 7.7 |
| 147.5° | 10.6 | 10.6 | 9.2 | 6.3 | 3.5 | 1.4 | 2.0 | 3.5 | 4.9 | 5.7 | 5.7 |
| 150° | 6.3 | 5.7 | 4.9 | 2.8 | 1.4 | 0.0 | 0.6 | 1.4 | 2.8 | 3.5 | 2.8 |
| 152.5° | 2.8 | 2.8 | 2.0 | 1.4 | 0.6 | 0.0 | 0.0 | 0.0 | 0.6 | 1.4 | 1.4 |
| 155° | 0.6 | 0.6 | 0.6 | 0.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 157.5° | 0.0 | 0.0 | 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 |

(END OF REPORT)