

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: P240537

Luminaire Tested: **UTLD-AF24-70-D-U-SL3-TL**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P240537
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-32)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 5/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: UTLD-AF24-70-D-U-SL3-TL
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 4000K, 930mA LIGHT ENGINE WITH 24 LEDS AND TYPE III SPILL
LIGHT ELIMINATOR OPTICS AND TEXTURED LENS PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6599 lumens
Efficiency: N/A
Efficacy: 89.2 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1.21' x L: 1.21' x H: 0.96')
IES Classification: Type IV - Medium - Non-Cutoff
BUG Rating: B1 - U3 - G3

Input Watts (W): 74
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

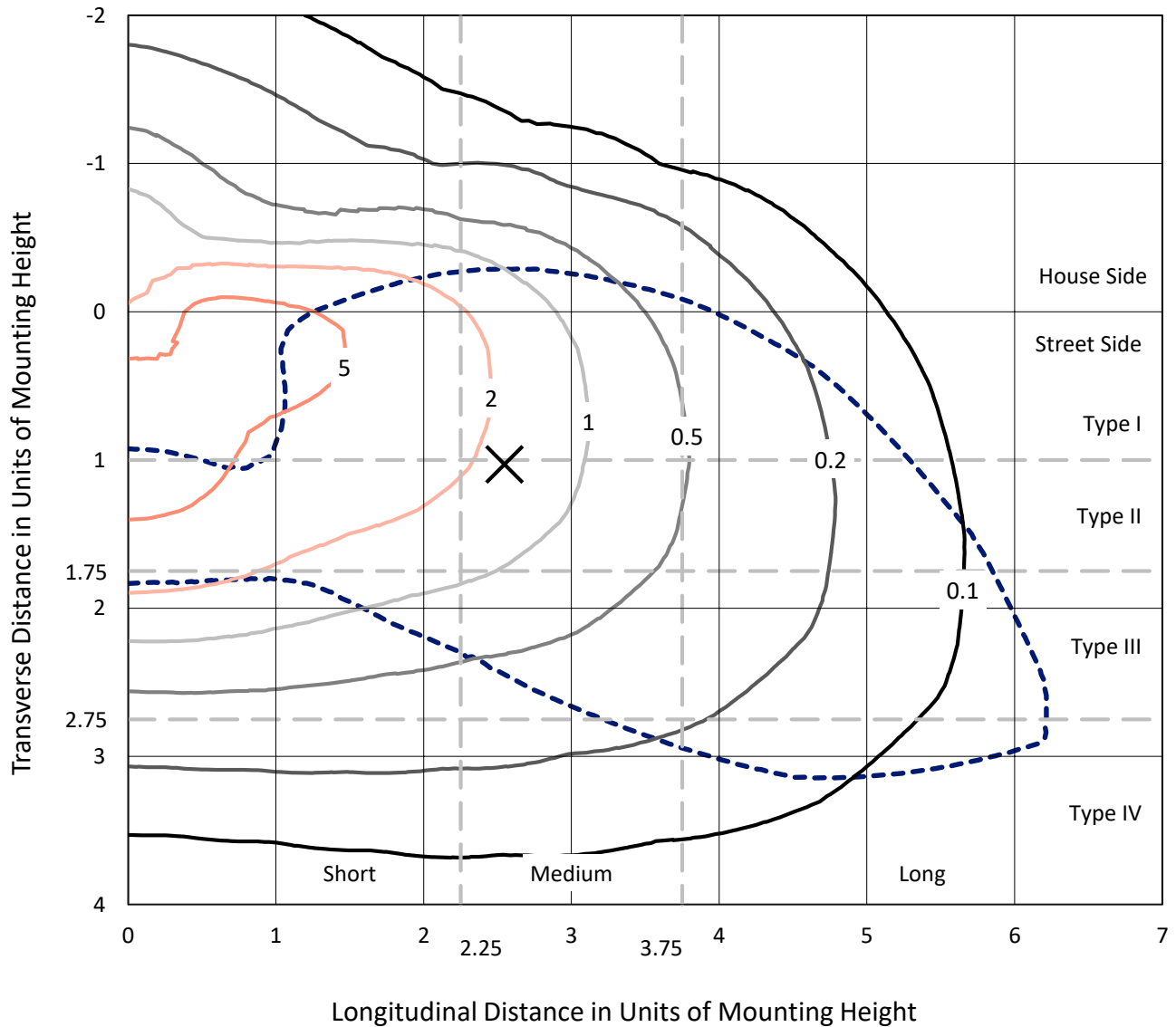


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

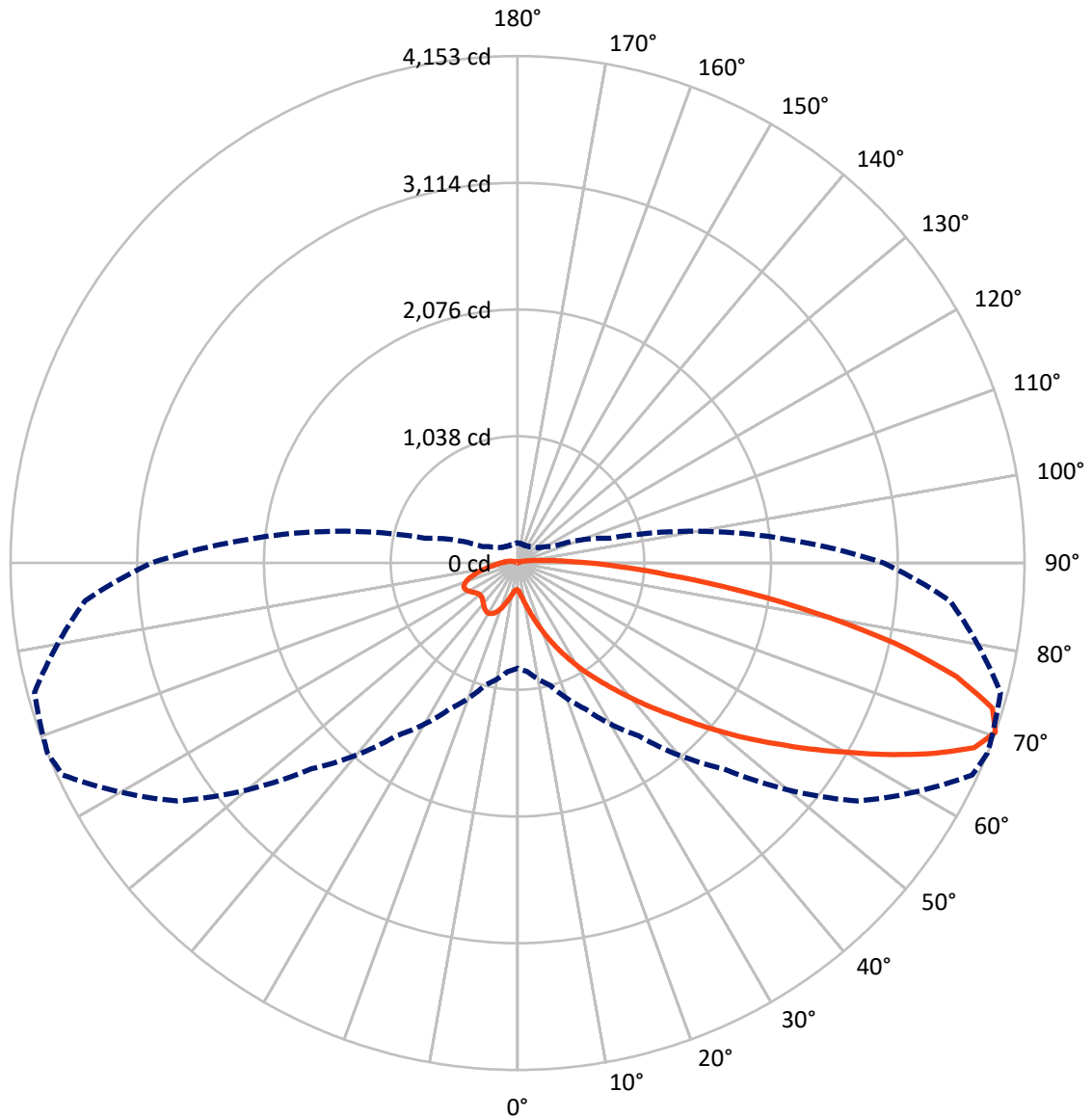


Based on 10 foot mounting height. Maximum calculated value = 8.5 fc
 Type IV - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 68-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical



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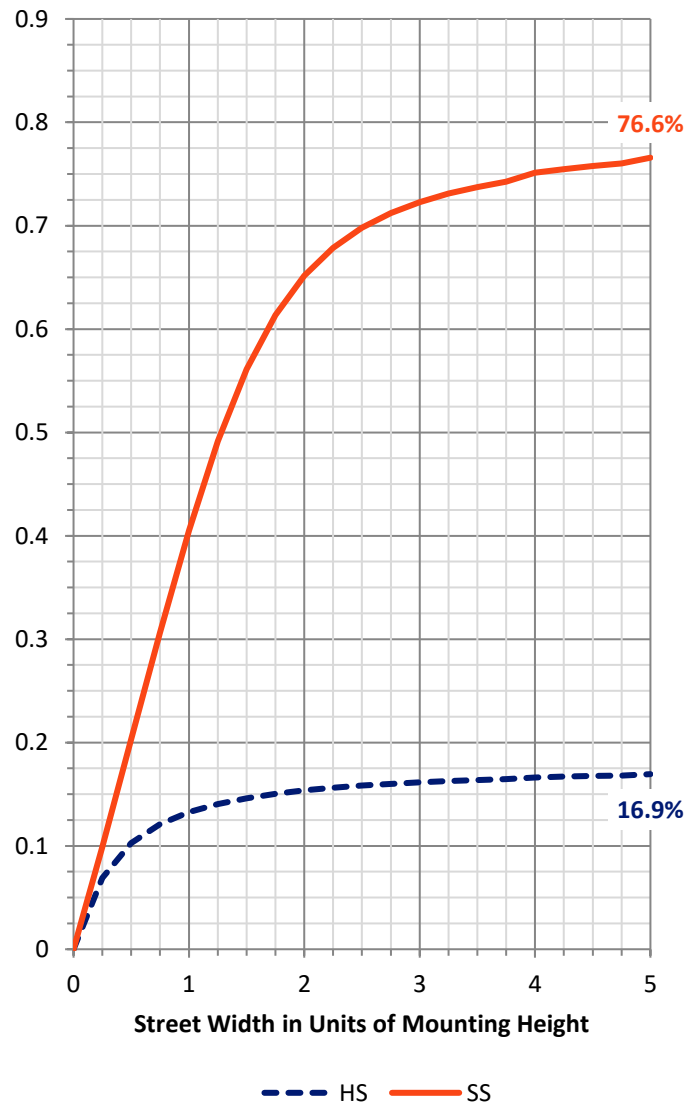
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1166.4 | 107.1 | 1273.6 |
| | % Fixture | 17.7 | 1.6 | 19.3 |
| Street Side | Lumens | 5178.7 | 146.7 | 5325.4 |
| | % Fixture | 78.5 | 2.2 | 80.7 |
| Total | Lumens | 6345.2 | 253.9 | 6599.0 |
| | % Fixture | 96.2 | 3.8 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 24.1 | 0.4 |
| 10°-20° | 104.7 | 1.6 |
| 20°-30° | 264.9 | 4.0 |
| 30°-40° | 513.4 | 7.8 |
| 40°-50° | 865.6 | 13.1 |
| 50°-60° | 1294.2 | 19.6 |
| 60°-70° | 1569.3 | 23.8 |
| 70°-80° | 1224.4 | 18.6 |
| 80°-90° | 484.5 | 7.3 |
| 90°-100° | 148.4 | 2.2 |
| 100°-110° | 58.3 | 0.9 |
| 110°-120° | 25.8 | 0.4 |
| 120°-130° | 12.7 | 0.2 |
| 130°-140° | 6.3 | 0.1 |
| 140°-150° | 2.0 | 0.0 |
| 150°-160° | 0.3 | 0.0 |
| 160°-170° | 0.0 | 0.0 |
| 170°-180° | 0.0 | 0.0 |
| 0°-90° | 6345.2 | 96.2 |
| 0°-180° | 6599.0 | 100.0 |

Coefficient of Utilization



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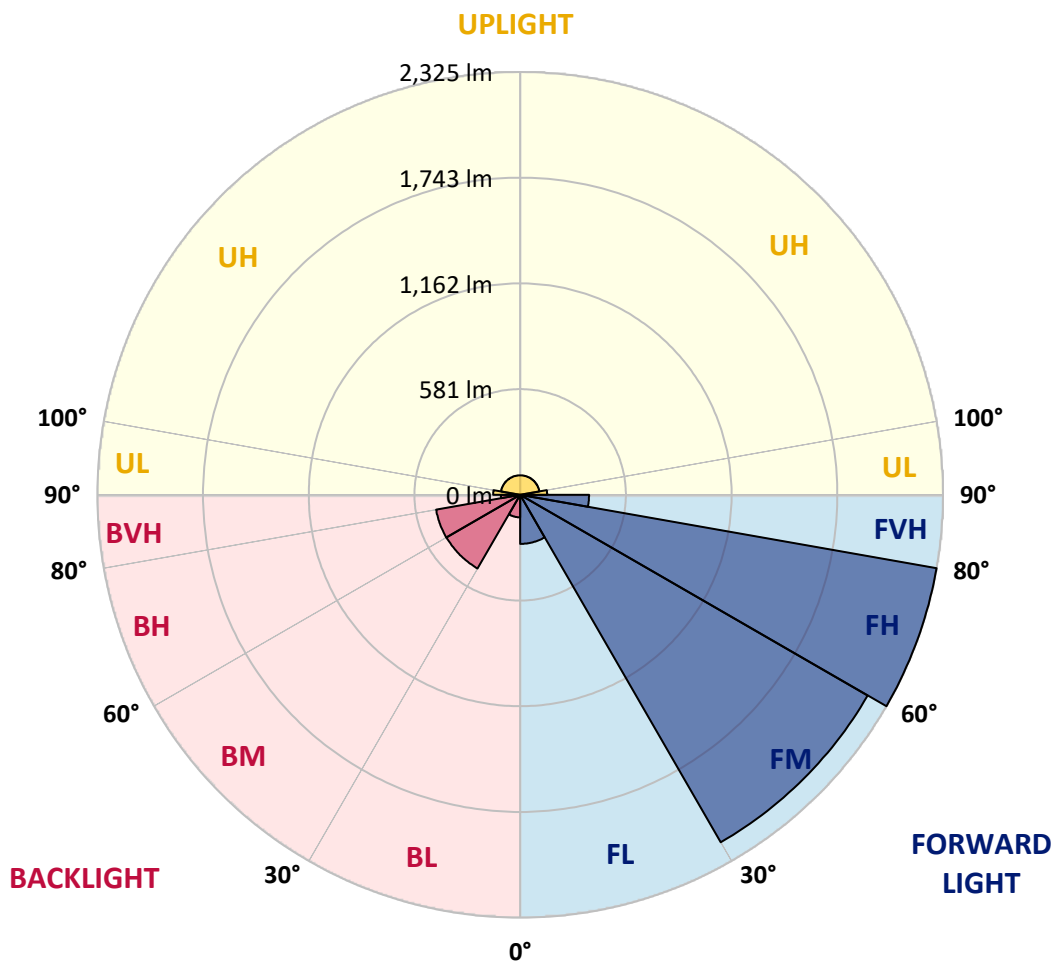
CATALOG NUMBER: UTLD-AF24-70-D-U-SL3-TL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|--------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 269.8 | 4.1 | | | |
| FM | (30°-60°) | 2205.7 | 33.4 | | | |
| FH | (60°-80°) | 2324.6 | 35.2 | | | G2/5000 |
| FVH | (80°-90°) | 378.7 | 5.7 | | | G3/500 |
| BL | (0°-30°) | 124.0 | 1.9 | B1/500 | | |
| BM | (30°-60°) | 467.6 | 7.1 | B1/1000 | | |
| BH | (60°-80°) | 469.1 | 7.1 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 105.8 | 1.6 | | | G2/225 |
| UL | (90°-100°) | 148.4 | 2.2 | | U3/500 | |
| UH | (100°-180°) | 107.1 | 1.6 | | U3/500 | |

BUG Rating: B1-U3-G3

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 68° | 75° | 85° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 221.8 | 221.8 | 221.8 | 221.8 | 221.8 | 221.8 | 221.8 | 221.8 | 221.8 | 221.8 | 221.8 |
| 2.5° | 246.7 | 247.7 | 247.7 | 245.0 | 244.2 | 241.6 | 237.2 | 235.6 | 233.8 | 232.1 | 228.6 |
| 5° | 279.6 | 279.6 | 277.8 | 275.2 | 271.8 | 269.1 | 264.8 | 259.7 | 258.8 | 252.8 | 246.7 |
| 7.5° | 316.6 | 317.5 | 318.3 | 314.0 | 308.8 | 304.5 | 299.4 | 292.5 | 290.7 | 284.7 | 273.5 |
| 10° | 365.8 | 366.6 | 365.0 | 360.6 | 353.7 | 348.5 | 342.5 | 335.6 | 333.1 | 327.9 | 312.3 |
| 12.5° | 425.3 | 424.5 | 419.3 | 413.3 | 405.5 | 399.5 | 391.7 | 386.5 | 384.8 | 379.6 | 363.2 |
| 15° | 488.4 | 491.7 | 485.7 | 471.9 | 462.5 | 453.0 | 449.5 | 449.5 | 451.2 | 445.2 | 429.6 |
| 17.5° | 569.4 | 572.0 | 561.7 | 542.7 | 527.1 | 516.8 | 513.3 | 520.3 | 522.8 | 525.4 | 511.6 |
| 20° | 663.5 | 664.3 | 647.9 | 621.2 | 593.6 | 580.6 | 581.5 | 597.9 | 604.0 | 613.5 | 597.0 |
| 22.5° | 778.3 | 771.3 | 748.0 | 706.7 | 667.0 | 646.2 | 654.0 | 686.8 | 691.9 | 711.8 | 703.2 |
| 25° | 898.2 | 897.2 | 858.5 | 803.2 | 745.4 | 718.7 | 731.6 | 772.2 | 786.9 | 817.0 | 805.8 |
| 27.5° | 1036.1 | 1032.8 | 982.6 | 914.5 | 836.1 | 796.4 | 807.5 | 865.3 | 882.6 | 933.5 | 921.5 |
| 30° | 1182.8 | 1183.8 | 1125.0 | 1030.1 | 932.6 | 877.4 | 884.3 | 964.5 | 987.0 | 1045.7 | 1042.2 |
| 32.5° | 1358.0 | 1347.6 | 1282.1 | 1157.9 | 1037.9 | 962.8 | 972.3 | 1065.5 | 1096.6 | 1166.5 | 1156.1 |
| 35° | 1534.0 | 1521.0 | 1433.9 | 1297.6 | 1147.4 | 1058.7 | 1062.9 | 1173.3 | 1206.2 | 1296.7 | 1276.8 |
| 37.5° | 1696.2 | 1689.3 | 1602.1 | 1445.1 | 1270.0 | 1164.7 | 1169.9 | 1289.0 | 1330.3 | 1431.3 | 1407.2 |
| 40° | 1870.5 | 1870.5 | 1781.6 | 1610.7 | 1406.4 | 1279.5 | 1287.3 | 1417.5 | 1467.5 | 1578.0 | 1537.5 |
| 42.5° | 2055.1 | 2049.1 | 1955.1 | 1761.7 | 1541.8 | 1402.9 | 1418.4 | 1562.5 | 1618.5 | 1735.8 | 1694.5 |
| 45° | 2237.2 | 2224.2 | 2126.7 | 1925.7 | 1677.2 | 1541.8 | 1565.0 | 1721.2 | 1779.9 | 1929.2 | 1871.4 |
| 47.5° | 2394.2 | 2380.4 | 2284.6 | 2073.2 | 1819.5 | 1685.8 | 1718.7 | 1905.9 | 1968.0 | 2145.7 | 2057.7 |
| 50° | 2506.3 | 2502.0 | 2408.8 | 2190.5 | 1946.4 | 1834.3 | 1903.3 | 2102.6 | 2176.7 | 2356.2 | 2273.4 |
| 52.5° | 2571.9 | 2564.1 | 2490.0 | 2296.7 | 2073.2 | 1987.8 | 2093.1 | 2316.6 | 2395.0 | 2588.3 | 2491.7 |
| 55° | 2557.3 | 2552.1 | 2499.5 | 2352.8 | 2172.4 | 2135.3 | 2303.6 | 2554.6 | 2628.0 | 2836.7 | 2722.1 |
| 57.5° | 2441.6 | 2448.5 | 2433.0 | 2356.2 | 2245.8 | 2288.0 | 2519.3 | 2805.7 | 2883.4 | 3087.0 | 2964.5 |
| 60° | 2235.5 | 2232.8 | 2276.9 | 2289.8 | 2275.1 | 2420.1 | 2779.9 | 3092.2 | 3151.7 | 3357.0 | 3200.8 |
| 62.5° | 1930.8 | 1924.0 | 2019.7 | 2143.1 | 2253.6 | 2531.4 | 3014.5 | 3397.5 | 3457.1 | 3622.8 | 3419.1 |
| 65° | 1557.3 | 1588.3 | 1708.2 | 1911.9 | 2146.6 | 2573.6 | 3242.2 | 3709.0 | 3758.2 | 3846.2 | 3590.9 |
| 67.5° | 1180.3 | 1210.5 | 1365.7 | 1623.7 | 1968.0 | 2524.4 | 3387.2 | 3988.6 | 4036.1 | 4059.3 | 3665.8 |
| 70° | 861.9 | 891.2 | 1037.9 | 1320.9 | 1725.5 | 2382.1 | 3398.4 | 4109.4 | 4152.5 | 4095.6 | 3555.5 |
| 72.5° | 613.5 | 628.9 | 754.9 | 1023.3 | 1449.4 | 2132.8 | 3257.0 | 4031.7 | 4067.0 | 3909.2 | 3263.8 |
| 75° | 433.9 | 440.9 | 549.6 | 778.3 | 1180.3 | 1850.6 | 2920.4 | 3684.1 | 3711.6 | 3513.2 | 2775.5 |
| 77.5° | 295.9 | 311.5 | 397.7 | 593.6 | 946.4 | 1519.3 | 2475.2 | 3158.6 | 3158.6 | 2906.6 | 2195.8 |
| 80° | 209.6 | 222.6 | 285.6 | 443.4 | 741.1 | 1217.3 | 1999.9 | 2509.8 | 2470.1 | 2184.5 | 1582.3 |
| 82.5° | 151.0 | 161.3 | 211.3 | 338.2 | 575.5 | 962.0 | 1517.6 | 1858.4 | 1804.1 | 1524.5 | 1045.7 |
| 85° | 109.6 | 119.9 | 160.5 | 248.5 | 440.9 | 746.2 | 1137.1 | 1290.7 | 1237.2 | 1010.3 | 679.0 |
| 87.5° | 80.2 | 87.2 | 119.9 | 187.2 | 333.9 | 565.1 | 834.3 | 876.6 | 829.1 | 653.2 | 435.7 |
| 90° | 57.0 | 63.0 | 91.5 | 141.5 | 250.2 | 424.5 | 585.8 | 575.5 | 523.6 | 410.7 | 288.2 |
| 92.5° | 41.4 | 45.7 | 68.1 | 107.8 | 186.4 | 311.5 | 402.9 | 371.8 | 342.5 | 264.0 | 200.2 |
| 95° | 31.1 | 34.5 | 53.5 | 83.7 | 137.2 | 219.1 | 271.8 | 244.2 | 221.8 | 180.3 | 147.5 |
| 97.5° | 25.1 | 27.6 | 44.0 | 67.3 | 106.1 | 159.6 | 188.1 | 161.3 | 151.0 | 130.3 | 113.9 |
| 100° | 21.6 | 23.3 | 37.1 | 56.1 | 83.7 | 119.9 | 132.9 | 113.0 | 107.0 | 98.3 | 88.9 |
| 102.5° | 19.8 | 20.7 | 32.7 | 48.3 | 68.1 | 89.7 | 95.7 | 84.6 | 80.2 | 75.1 | 69.9 |
| 105° | 18.1 | 19.0 | 29.4 | 42.2 | 57.8 | 69.9 | 73.3 | 64.8 | 62.1 | 57.0 | 53.5 |
| 107.5° | 17.3 | 17.3 | 25.9 | 37.1 | 49.2 | 57.8 | 57.8 | 50.9 | 48.3 | 43.2 | 41.4 |
| 110° | 16.4 | 16.4 | 23.3 | 33.7 | 42.2 | 49.2 | 47.5 | 40.5 | 38.0 | 32.7 | 31.9 |



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CATALOG NUMBER: UTLD-AF24-70-D-U-SL3-TL

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 68° | 75° | 85° |
|--------|------|------|------|------|------|------|------|------|------|------|------|
| 112.5° | 15.5 | 15.5 | 21.6 | 29.4 | 37.1 | 41.4 | 39.7 | 32.7 | 30.2 | 25.1 | 25.1 |
| 115° | 14.6 | 14.6 | 19.0 | 25.9 | 32.7 | 35.4 | 33.7 | 26.7 | 25.1 | 19.8 | 20.7 |
| 117.5° | 14.6 | 14.6 | 18.1 | 23.3 | 28.4 | 31.1 | 28.4 | 21.6 | 19.8 | 16.4 | 18.1 |
| 120° | 13.8 | 13.8 | 16.4 | 20.7 | 25.1 | 26.7 | 24.1 | 18.1 | 16.4 | 13.8 | 15.5 |
| 122.5° | 13.8 | 13.8 | 15.5 | 18.1 | 22.4 | 23.3 | 20.7 | 15.5 | 13.8 | 12.1 | 13.8 |
| 125° | 13.0 | 13.0 | 14.6 | 16.4 | 19.0 | 19.8 | 17.3 | 13.0 | 12.1 | 11.3 | 12.1 |
| 127.5° | 13.0 | 13.0 | 13.8 | 14.6 | 17.3 | 17.3 | 14.6 | 10.3 | 10.3 | 9.5 | 11.3 |
| 130° | 12.1 | 13.0 | 13.0 | 13.8 | 14.6 | 14.6 | 12.1 | 8.6 | 8.6 | 8.6 | 10.3 |
| 132.5° | 12.1 | 12.1 | 12.1 | 12.1 | 13.0 | 12.1 | 9.5 | 7.8 | 7.8 | 7.8 | 9.5 |
| 135° | 11.3 | 11.3 | 11.3 | 11.3 | 10.3 | 9.5 | 7.8 | 6.0 | 6.0 | 6.9 | 8.6 |
| 137.5° | 11.3 | 11.3 | 10.3 | 9.5 | 9.5 | 7.8 | 6.0 | 5.2 | 5.2 | 6.9 | 7.8 |
| 140° | 10.3 | 10.3 | 9.5 | 8.6 | 6.9 | 6.0 | 4.3 | 4.3 | 4.3 | 5.2 | 6.0 |
| 142.5° | 8.6 | 8.6 | 8.6 | 6.9 | 5.2 | 3.5 | 2.6 | 2.6 | 3.5 | 4.3 | 5.2 |
| 145° | 7.8 | 7.8 | 6.9 | 6.0 | 3.5 | 1.7 | 0.8 | 1.7 | 2.6 | 3.5 | 4.3 |
| 147.5° | 6.0 | 6.0 | 5.2 | 4.3 | 1.7 | 0.8 | 0.0 | 0.8 | 1.7 | 1.7 | 2.6 |
| 150° | 4.3 | 4.3 | 4.3 | 2.6 | 0.8 | 0.0 | 0.0 | 0.8 | 0.8 | 0.8 | 1.7 |
| 152.5° | 3.5 | 3.5 | 2.6 | 1.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.8 | 0.8 | 0.8 |
| 155° | 1.7 | 1.7 | 1.7 | 0.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.8 |
| 157.5° | 0.8 | 0.8 | 0.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 160° | 0.0 | 0.0 | 0.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 162.5° | 0.0 | 0.0 | 0.8 | 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-AF24-70-D-U-SL3-TL

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|--------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 221.8 | 221.8 | 221.8 | 221.8 | 221.8 | 221.8 | 221.8 | 221.8 | 221.8 | 221.8 | 221.8 |
| 2.5° | 226.1 | 225.2 | 220.9 | 217.4 | 213.1 | 209.6 | 206.2 | 203.6 | 202.7 | 201.0 | 201.9 |
| 5° | 241.6 | 238.1 | 229.4 | 221.8 | 213.1 | 205.3 | 198.5 | 193.2 | 188.9 | 187.2 | 186.4 |
| 7.5° | 268.3 | 263.1 | 247.7 | 233.8 | 220.0 | 206.2 | 195.0 | 186.4 | 181.2 | 177.7 | 177.7 |
| 10° | 307.2 | 295.9 | 276.1 | 252.8 | 229.4 | 209.6 | 194.2 | 182.1 | 174.3 | 171.7 | 171.7 |
| 12.5° | 354.6 | 342.5 | 311.5 | 276.1 | 243.3 | 215.7 | 195.0 | 182.1 | 174.3 | 170.8 | 170.0 |
| 15° | 417.6 | 399.5 | 353.7 | 303.7 | 256.2 | 220.9 | 195.9 | 182.9 | 177.7 | 176.0 | 176.0 |
| 17.5° | 491.7 | 469.3 | 402.9 | 333.9 | 270.9 | 223.4 | 198.5 | 188.1 | 185.5 | 185.5 | 185.5 |
| 20° | 579.8 | 547.0 | 458.1 | 360.6 | 281.3 | 226.1 | 200.2 | 192.4 | 192.4 | 194.2 | 195.0 |
| 22.5° | 673.8 | 632.4 | 511.6 | 385.7 | 284.7 | 227.8 | 199.3 | 194.2 | 198.5 | 202.7 | 203.6 |
| 25° | 773.9 | 716.1 | 560.0 | 401.2 | 286.4 | 223.4 | 196.7 | 195.0 | 203.6 | 209.6 | 211.3 |
| 27.5° | 880.0 | 801.5 | 601.4 | 407.2 | 281.3 | 215.7 | 192.4 | 193.2 | 206.2 | 214.8 | 216.6 |
| 30° | 977.5 | 881.8 | 634.1 | 405.5 | 270.1 | 206.2 | 187.2 | 190.7 | 206.2 | 218.3 | 220.9 |
| 32.5° | 1078.5 | 961.2 | 654.0 | 397.7 | 256.2 | 195.9 | 181.2 | 188.1 | 205.3 | 219.1 | 221.8 |
| 35° | 1179.4 | 1031.0 | 663.5 | 382.2 | 240.7 | 186.4 | 175.1 | 183.7 | 202.7 | 218.3 | 220.0 |
| 37.5° | 1280.3 | 1100.0 | 666.0 | 362.3 | 226.9 | 178.6 | 170.8 | 181.2 | 198.5 | 216.6 | 219.1 |
| 40° | 1389.1 | 1168.2 | 660.9 | 342.5 | 214.0 | 173.4 | 167.4 | 177.7 | 195.0 | 214.0 | 217.4 |
| 42.5° | 1510.7 | 1240.6 | 654.8 | 322.6 | 205.3 | 170.0 | 164.8 | 174.3 | 189.8 | 211.3 | 215.7 |
| 45° | 1646.1 | 1320.0 | 651.4 | 307.2 | 200.2 | 168.3 | 163.9 | 171.7 | 187.2 | 209.6 | 214.0 |
| 47.5° | 1792.0 | 1420.2 | 654.8 | 296.8 | 197.5 | 169.1 | 163.9 | 170.0 | 183.7 | 206.2 | 211.3 |
| 50° | 1969.7 | 1534.8 | 667.8 | 289.0 | 196.7 | 170.0 | 164.8 | 168.3 | 180.3 | 201.0 | 206.2 |
| 52.5° | 2153.4 | 1652.2 | 688.4 | 287.3 | 197.5 | 171.7 | 165.6 | 167.4 | 175.1 | 194.2 | 198.5 |
| 55° | 2344.1 | 1807.5 | 723.8 | 289.9 | 199.3 | 174.3 | 166.5 | 165.6 | 170.8 | 185.5 | 190.7 |
| 57.5° | 2559.8 | 1968.9 | 767.8 | 295.9 | 201.9 | 176.0 | 167.4 | 163.9 | 165.6 | 177.7 | 182.1 |
| 60° | 2773.8 | 2132.8 | 812.7 | 303.7 | 207.0 | 178.6 | 168.3 | 163.1 | 163.1 | 172.6 | 176.0 |
| 62.5° | 2967.9 | 2276.9 | 849.9 | 314.0 | 211.3 | 180.3 | 168.3 | 161.3 | 160.5 | 168.3 | 171.7 |
| 65° | 3100.8 | 2352.8 | 858.5 | 320.1 | 215.7 | 181.2 | 166.5 | 159.6 | 158.8 | 164.8 | 168.3 |
| 67.5° | 3136.2 | 2340.7 | 841.2 | 322.6 | 218.3 | 181.2 | 166.5 | 157.8 | 158.8 | 163.9 | 166.5 |
| 70° | 2998.1 | 2215.6 | 784.3 | 317.5 | 217.4 | 180.3 | 164.8 | 156.2 | 157.8 | 163.1 | 164.8 |
| 72.5° | 2668.6 | 1956.8 | 696.2 | 304.5 | 213.1 | 176.9 | 161.3 | 153.5 | 156.2 | 162.2 | 163.9 |
| 75° | 2239.8 | 1621.2 | 591.9 | 283.9 | 205.3 | 172.6 | 157.8 | 150.2 | 154.5 | 160.5 | 161.3 |
| 77.5° | 1723.0 | 1242.4 | 484.1 | 257.1 | 195.0 | 166.5 | 152.7 | 145.0 | 151.0 | 157.8 | 157.0 |
| 80° | 1223.4 | 905.9 | 382.2 | 229.4 | 181.2 | 157.8 | 145.8 | 138.9 | 145.8 | 152.7 | 151.0 |
| 82.5° | 842.9 | 614.3 | 305.5 | 202.7 | 166.5 | 148.4 | 138.0 | 132.0 | 139.7 | 145.8 | 143.2 |
| 85° | 552.2 | 415.0 | 240.7 | 177.7 | 152.7 | 138.9 | 129.4 | 123.4 | 131.1 | 136.4 | 132.9 |
| 87.5° | 356.3 | 289.0 | 192.4 | 154.5 | 138.0 | 128.6 | 119.9 | 114.8 | 122.5 | 126.8 | 123.4 |
| 90° | 247.7 | 210.5 | 158.8 | 133.7 | 124.3 | 117.3 | 110.5 | 105.3 | 112.1 | 115.6 | 113.9 |
| 92.5° | 176.9 | 161.3 | 132.0 | 117.3 | 112.1 | 106.1 | 100.0 | 95.7 | 102.7 | 105.3 | 103.5 |
| 95° | 138.0 | 128.6 | 112.1 | 103.5 | 101.0 | 96.7 | 90.6 | 86.2 | 91.5 | 93.2 | 92.3 |
| 97.5° | 110.5 | 106.1 | 96.7 | 91.5 | 89.7 | 86.2 | 81.9 | 77.6 | 81.1 | 81.9 | 81.1 |
| 100° | 88.9 | 87.2 | 82.9 | 80.2 | 79.4 | 76.8 | 72.4 | 69.0 | 70.8 | 69.9 | 69.9 |
| 102.5° | 70.8 | 70.8 | 69.9 | 69.0 | 69.0 | 66.4 | 63.0 | 59.5 | 59.5 | 57.8 | 57.8 |
| 105° | 56.1 | 57.8 | 57.8 | 58.7 | 59.5 | 57.8 | 54.3 | 50.0 | 49.2 | 46.5 | 46.5 |
| 107.5° | 44.0 | 45.7 | 48.3 | 49.2 | 50.0 | 48.3 | 45.7 | 41.4 | 38.9 | 36.2 | 37.1 |
| 110° | 34.5 | 36.2 | 39.7 | 41.4 | 42.2 | 41.4 | 38.0 | 34.5 | 30.2 | 28.4 | 29.4 |



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|--------|------|------|------|------|------|------|------|------|------|------|------|
| 112.5° | 26.7 | 29.4 | 32.7 | 34.5 | 35.4 | 34.5 | 31.1 | 27.6 | 23.3 | 22.4 | 22.4 |
| 115° | 22.4 | 24.1 | 27.6 | 29.4 | 29.4 | 28.4 | 25.9 | 21.6 | 18.1 | 17.3 | 18.1 |
| 117.5° | 19.0 | 20.7 | 23.3 | 25.1 | 25.1 | 24.1 | 21.6 | 17.3 | 14.6 | 14.6 | 14.6 |
| 120° | 16.4 | 18.1 | 19.8 | 21.6 | 21.6 | 20.7 | 18.1 | 13.8 | 12.1 | 12.1 | 12.1 |
| 122.5° | 14.6 | 15.5 | 17.3 | 18.1 | 18.1 | 17.3 | 14.6 | 11.3 | 9.5 | 10.3 | 10.3 |
| 125° | 13.0 | 13.8 | 15.5 | 16.4 | 15.5 | 14.6 | 12.1 | 8.6 | 7.8 | 8.6 | 8.6 |
| 127.5° | 12.1 | 13.0 | 13.8 | 13.8 | 13.8 | 12.1 | 10.3 | 6.9 | 6.9 | 7.8 | 7.8 |
| 130° | 11.3 | 11.3 | 12.1 | 12.1 | 11.3 | 10.3 | 7.8 | 5.2 | 5.2 | 6.9 | 6.9 |
| 132.5° | 10.3 | 10.3 | 11.3 | 10.3 | 10.3 | 8.6 | 6.0 | 4.3 | 5.2 | 6.0 | 6.0 |
| 135° | 8.6 | 8.6 | 9.5 | 9.5 | 7.8 | 6.9 | 4.3 | 3.5 | 3.5 | 4.3 | 5.2 |
| 137.5° | 7.8 | 8.6 | 8.6 | 7.8 | 6.9 | 5.2 | 3.5 | 2.6 | 3.5 | 3.5 | 4.3 |
| 140° | 6.9 | 6.9 | 6.9 | 6.0 | 5.2 | 3.5 | 1.7 | 1.7 | 2.6 | 2.6 | 2.6 |
| 142.5° | 5.2 | 6.0 | 6.0 | 5.2 | 3.5 | 1.7 | 0.8 | 0.8 | 1.7 | 1.7 | 1.7 |
| 145° | 4.3 | 4.3 | 4.3 | 3.5 | 2.6 | 1.7 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 |
| 147.5° | 2.6 | 3.5 | 3.5 | 2.6 | 1.7 | 0.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 150° | 1.7 | 1.7 | 2.6 | 1.7 | 1.7 | 0.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 152.5° | 0.8 | 1.7 | 1.7 | 1.7 | 0.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 155° | 0.8 | 0.8 | 1.7 | 0.8 | 0.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 157.5° | 0.0 | 0.8 | 0.8 | 0.8 | 0.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 160° | 0.0 | 0.0 | 0.8 | 0.8 | 0.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 162.5° | 0.0 | 0.8 | 0.8 | 0.8 | 0.8 | 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)