

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: P254255

Luminaire Tested: **LXF.LXT-AF24-100-D-U-5WQ-A-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P254255
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1806-803-18)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: LXF.LXT-AF24-100-D-U-5WQ-A-7030
Description: DECORATIVE POST TOP LUMINAIRE
(1) 70 CRI, 3000K, 1200mA LIGHT ENGINE WITH 24 LEDS AND TYPE V WIDE OPTICS AND REFRACTOR PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8556.1 lumens
Efficiency: N/A
Efficacy: 89.1 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1.17' x L: 1.17' x H: 0.83')
IES Classification: Type V - Short - Non-Cutoff
BUG Rating: B3 - U3 - G3

Input Watts (W): 96
Input Voltage (V): NR
Input Current (A_{in}): 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

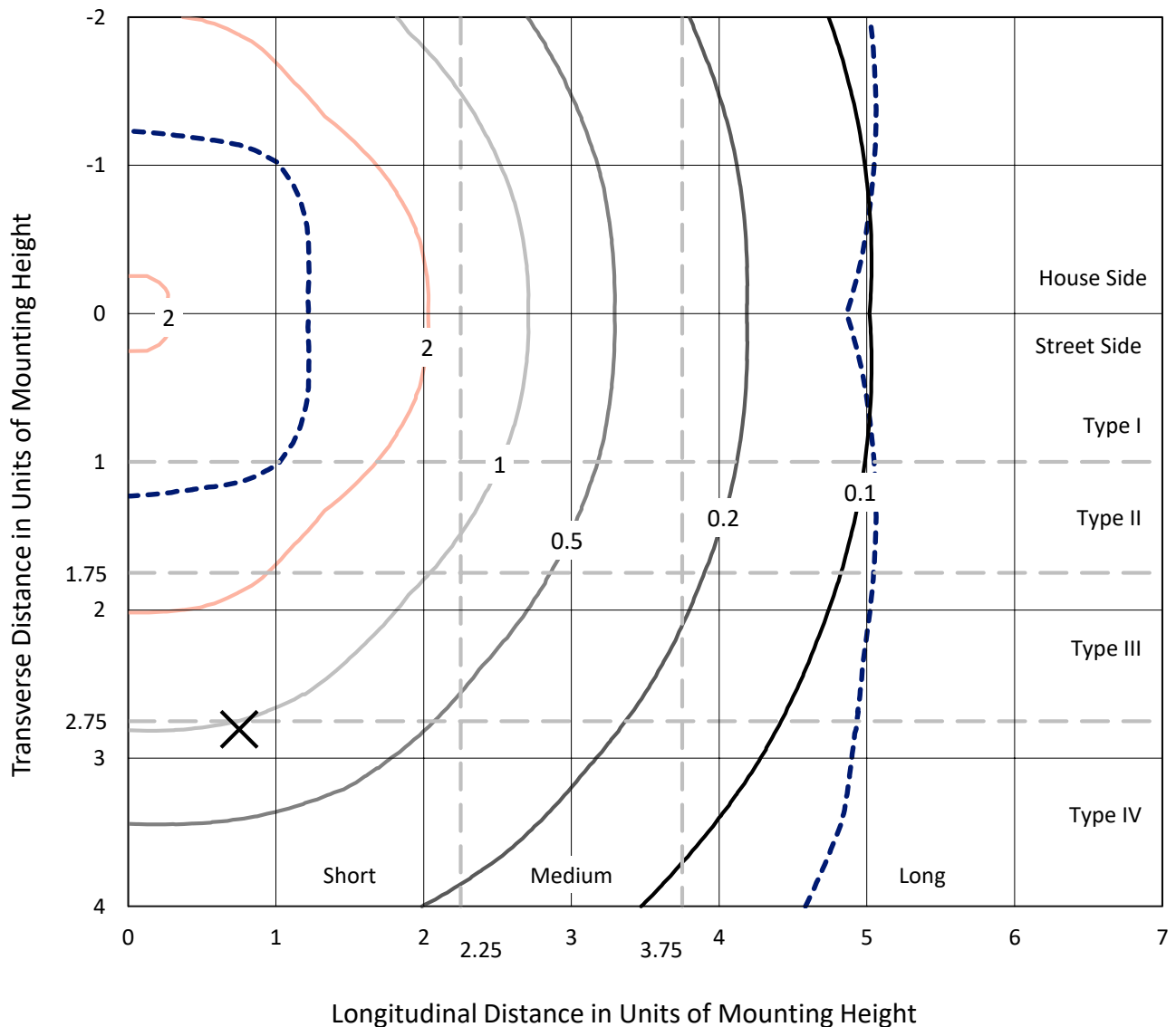


REPORT NUMBER: P254255

CATALOG NUMBER: LXF.LXT-AF24-100-D-U-5WQ-A-7030

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

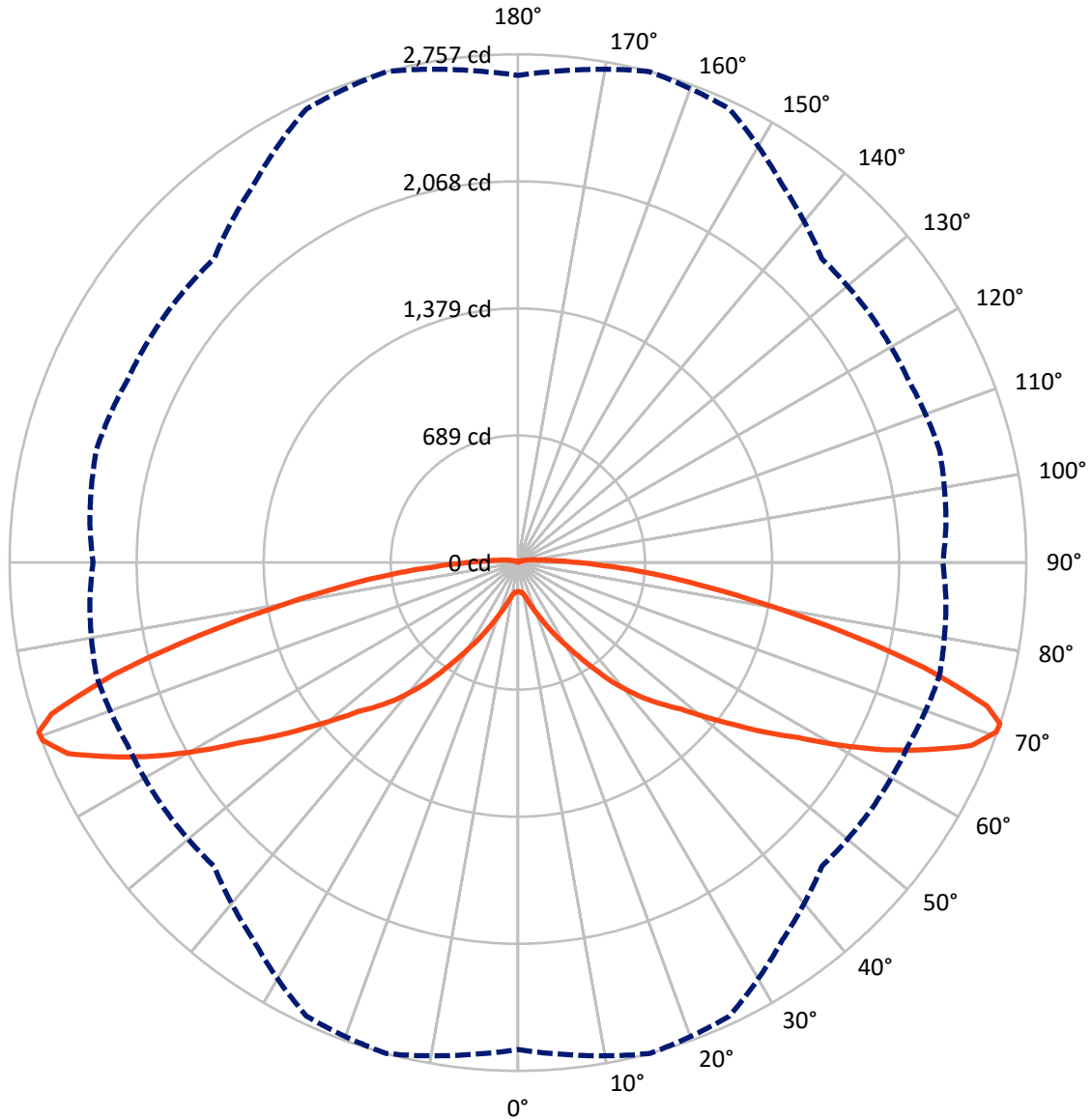


Based on 10 foot mounting height. Maximum calculated value = 4.3 fc
 Type V - Short - Non-Cutoff

REPORT NUMBER: P254255

CATALOG NUMBER: LXF.LXT-AF24-100-D-U-5WQ-A-7030

Luminous Intensity Polar Plot



— Vertical Plane Through 15-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

REPORT NUMBER: P254255

CATALOG NUMBER: LXF.LXT-AF24-100-D-U-5WQ-A-7030

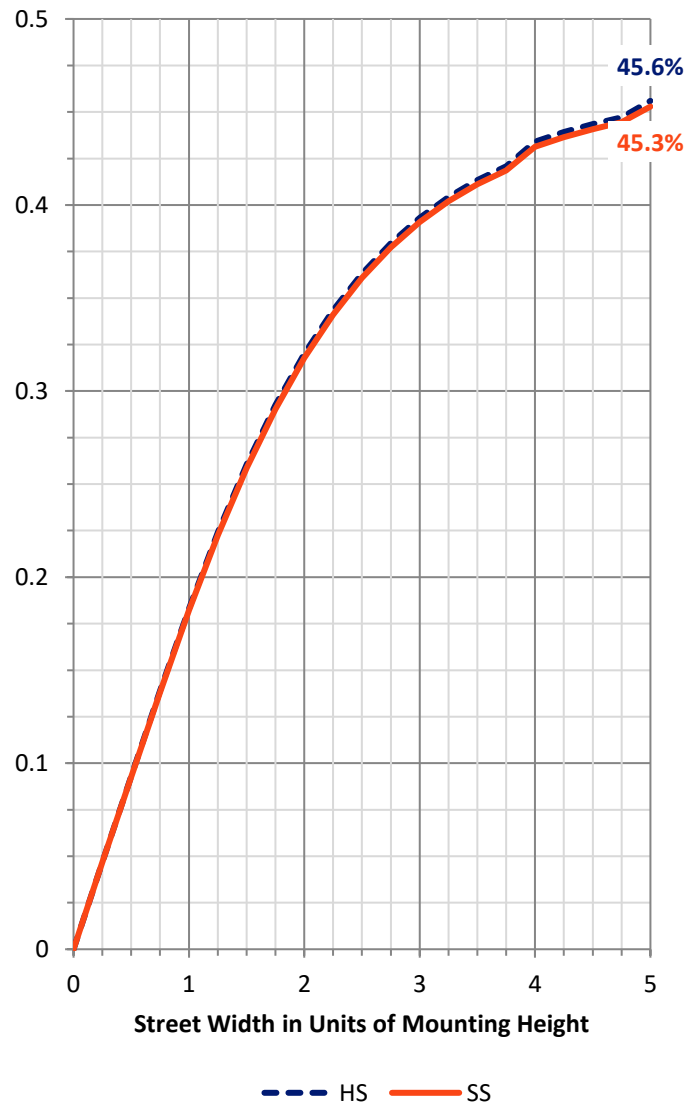
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 4099.5 | 178.5 | 4278.0 |
| | % Fixture | 47.9 | 2.1 | 50.0 |
| Street Side | Lumens | 4099.5 | 178.5 | 4278.0 |
| | % Fixture | 47.9 | 2.1 | 50.0 |
| Total | Lumens | 8199.1 | 357.0 | 8556.1 |
| | % Fixture | 95.8 | 4.2 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 15.7 | 0.2 |
| 10°-20° | 63.4 | 0.7 |
| 20°-30° | 179.5 | 2.1 |
| 30°-40° | 418.3 | 4.9 |
| 40°-50° | 780.9 | 9.1 |
| 50°-60° | 1393.4 | 16.3 |
| 60°-70° | 2284.3 | 26.7 |
| 70°-80° | 2136.7 | 25.0 |
| 80°-90° | 926.8 | 10.8 |
| 90°-100° | 234.1 | 2.7 |
| 100°-110° | 68.3 | 0.8 |
| 110°-120° | 28.0 | 0.3 |
| 120°-130° | 14.8 | 0.2 |
| 130°-140° | 8.2 | 0.1 |
| 140°-150° | 3.1 | 0.0 |
| 150°-160° | 0.5 | 0.0 |
| 160°-170° | 0.0 | 0.0 |
| 170°-180° | 0.0 | 0.0 |
| 0°-90° | 8199.1 | 95.8 |
| 0°-180° | 8556.1 | 100.0 |



REPORT NUMBER: P254255

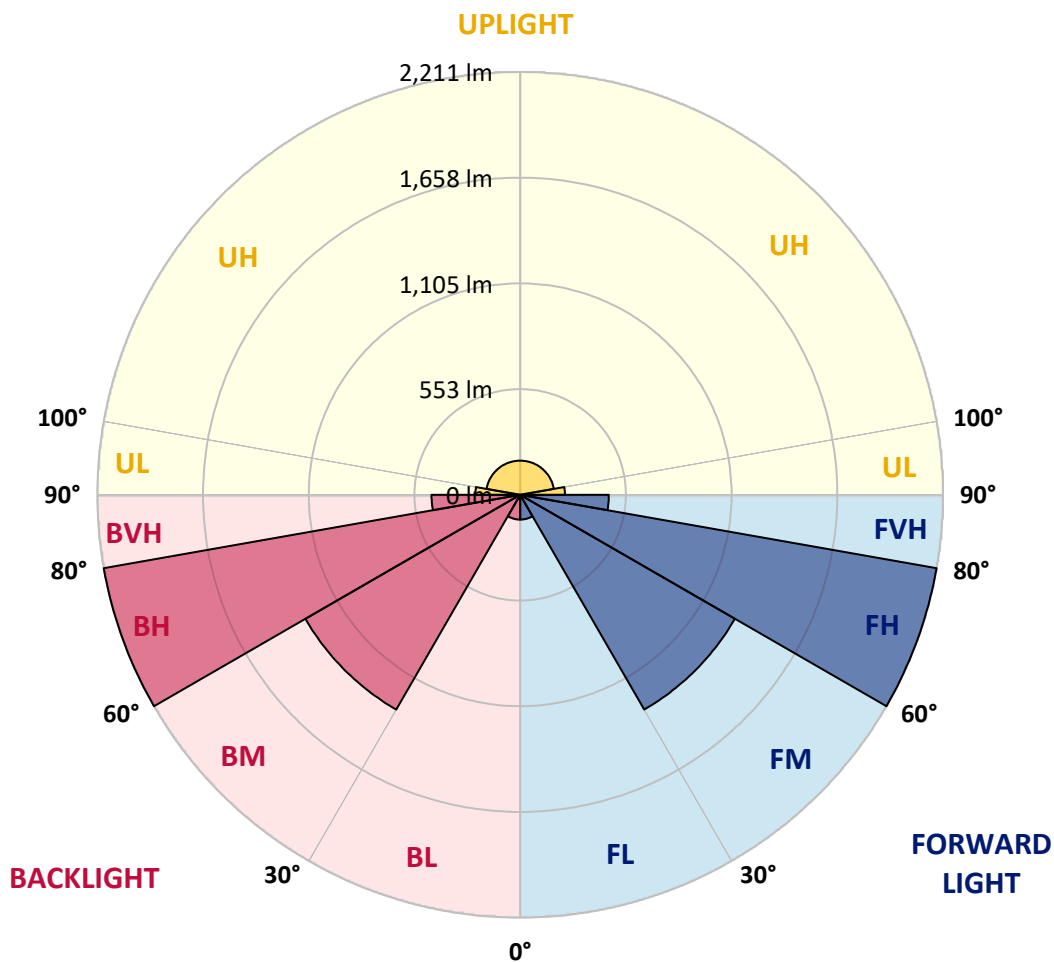
CATALOG NUMBER: LXF.LXT-AF24-100-D-U-5WQ-A-7030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|--------|---------|
| | | | B | U | G |
| FL (0°-30°) | 129.3 | 1.5 | | | |
| FM (30°-60°) | 1296.3 | 15.2 | | | |
| FH (60°-80°) | 2210.5 | 25.8 | | | G2/5000 |
| FVH (80°-90°) | 463.4 | 5.4 | | | G3/500 |
| BL (0°-30°) | 129.3 | 1.5 | B1/500 | | |
| BM (30°-60°) | 1296.3 | 15.2 | B2/2500 | | |
| BH (60°-80°) | 2210.5 | 25.8 | B3/2500 | | G2/5000 |
| BVH (80°-90°) | 463.4 | 5.4 | | | G3/500 |
| UL (90°-100°) | 234.1 | 2.7 | | U3/500 | |
| UH (100°-180°) | 178.5 | 2.1 | | U3/500 | |

BUG Rating: B3-U3-G3

Type V Short





REPORT NUMBER: P254255

CATALOG NUMBER: LXF.LXT-AF24-100-D-U-5WQ-A-7030

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 157.7 | 157.7 | 157.7 | 157.7 | 157.7 | 157.7 | 157.7 | 157.7 | 157.7 | 157.7 | 157.7 |
| 2.5° | 158.7 | 158.7 | 158.7 | 159.5 | 159.5 | 159.5 | 158.7 | 158.7 | 157.7 | 157.7 | 157.7 |
| 5° | 161.4 | 161.4 | 161.4 | 161.4 | 161.4 | 161.4 | 160.5 | 160.5 | 159.5 | 159.5 | 159.5 |
| 7.5° | 166.3 | 166.3 | 166.3 | 166.3 | 166.3 | 165.4 | 164.4 | 163.5 | 163.5 | 163.5 | 163.5 |
| 10° | 177.0 | 177.0 | 176.0 | 175.1 | 174.0 | 172.1 | 172.1 | 171.2 | 171.2 | 171.2 | 172.1 |
| 12.5° | 199.2 | 199.2 | 196.3 | 191.5 | 185.6 | 183.8 | 182.8 | 184.7 | 187.6 | 188.6 | 190.5 |
| 15° | 228.3 | 228.3 | 224.3 | 216.7 | 207.9 | 200.2 | 202.1 | 207.9 | 212.7 | 215.7 | 217.5 |
| 17.5° | 264.0 | 264.0 | 258.2 | 247.6 | 235.0 | 230.2 | 229.2 | 237.0 | 244.6 | 250.4 | 254.3 |
| 20° | 303.6 | 303.6 | 295.9 | 281.5 | 268.9 | 265.9 | 265.0 | 270.8 | 282.4 | 291.0 | 295.0 |
| 22.5° | 352.1 | 353.0 | 341.3 | 322.0 | 309.4 | 303.6 | 302.6 | 310.4 | 328.8 | 341.3 | 346.3 |
| 25° | 412.0 | 412.0 | 399.5 | 372.3 | 354.9 | 345.3 | 347.2 | 361.6 | 387.8 | 405.3 | 408.1 |
| 27.5° | 478.7 | 476.8 | 460.3 | 431.3 | 406.1 | 391.7 | 396.5 | 418.8 | 450.7 | 476.8 | 480.6 |
| 30° | 553.2 | 551.2 | 528.0 | 497.0 | 461.3 | 443.9 | 451.6 | 483.6 | 527.0 | 563.8 | 568.5 |
| 32.5° | 639.2 | 637.3 | 608.2 | 568.5 | 521.2 | 498.0 | 512.5 | 558.0 | 611.2 | 658.7 | 665.4 |
| 35° | 742.8 | 740.8 | 702.1 | 647.0 | 588.9 | 560.9 | 580.2 | 635.4 | 698.1 | 755.3 | 763.9 |
| 37.5° | 851.0 | 851.0 | 810.3 | 739.8 | 663.4 | 628.6 | 649.9 | 712.7 | 787.2 | 843.3 | 853.0 |
| 40° | 949.7 | 949.7 | 909.0 | 840.4 | 747.6 | 701.1 | 723.4 | 788.2 | 854.9 | 905.2 | 914.8 |
| 42.5° | 1040.5 | 1043.4 | 1005.7 | 935.1 | 835.5 | 782.4 | 795.9 | 853.0 | 921.6 | 977.7 | 987.3 |
| 45° | 1113.2 | 1119.0 | 1095.7 | 1029.0 | 929.4 | 866.5 | 871.4 | 936.2 | 1017.3 | 1076.3 | 1087.9 |
| 47.5° | 1201.1 | 1202.1 | 1185.6 | 1122.7 | 1029.0 | 960.3 | 964.2 | 1040.5 | 1129.5 | 1190.5 | 1196.3 |
| 50° | 1325.9 | 1328.7 | 1314.3 | 1242.8 | 1144.1 | 1066.7 | 1086.0 | 1165.4 | 1275.6 | 1340.4 | 1342.2 |
| 52.5° | 1464.2 | 1467.1 | 1456.4 | 1390.7 | 1277.5 | 1203.1 | 1233.0 | 1324.9 | 1434.1 | 1488.3 | 1486.4 |
| 55° | 1609.2 | 1616.0 | 1621.7 | 1560.9 | 1440.9 | 1364.5 | 1405.2 | 1500.9 | 1602.4 | 1655.6 | 1649.9 |
| 57.5° | 1770.6 | 1775.6 | 1791.0 | 1736.9 | 1629.5 | 1555.1 | 1606.3 | 1702.0 | 1805.5 | 1856.8 | 1848.0 |
| 60° | 1992.2 | 1999.9 | 2012.4 | 1938.0 | 1826.9 | 1767.9 | 1823.9 | 1925.4 | 2030.8 | 2061.8 | 2050.1 |
| 62.5° | 2193.3 | 2202.0 | 2236.9 | 2180.7 | 2035.7 | 1973.8 | 2048.3 | 2146.0 | 2234.0 | 2248.4 | 2229.1 |
| 65° | 2389.6 | 2399.4 | 2446.7 | 2398.3 | 2254.2 | 2166.2 | 2244.5 | 2324.8 | 2407.0 | 2417.7 | 2398.3 |
| 67.5° | 2568.5 | 2594.7 | 2651.7 | 2585.0 | 2422.5 | 2321.9 | 2366.4 | 2431.2 | 2503.7 | 2491.1 | 2467.0 |
| 70° | 2660.4 | 2694.3 | 2752.2 | 2705.8 | 2504.7 | 2352.9 | 2377.1 | 2396.4 | 2431.2 | 2413.7 | 2392.6 |
| 71° | 2642.0 | 2676.9 | 2757.0 | 2714.5 | 2499.9 | 2330.6 | 2337.4 | 2338.3 | 2367.3 | 2330.6 | 2304.5 |
| 72.5° | 2510.4 | 2547.3 | 2660.4 | 2666.2 | 2451.6 | 2266.8 | 2236.9 | 2212.6 | 2197.2 | 2131.4 | 2111.1 |
| 75° | 2101.4 | 2149.7 | 2276.4 | 2349.0 | 2229.1 | 2049.1 | 1997.0 | 1915.8 | 1871.3 | 1795.7 | 1791.0 |
| 77.5° | 1635.3 | 1667.2 | 1791.0 | 1901.2 | 1868.4 | 1752.3 | 1693.3 | 1614.0 | 1567.7 | 1508.7 | 1473.8 |
| 80° | 1218.5 | 1229.1 | 1341.2 | 1466.0 | 1503.7 | 1457.4 | 1413.9 | 1342.2 | 1287.2 | 1230.1 | 1200.1 |
| 82.5° | 866.5 | 886.7 | 988.4 | 1123.7 | 1212.7 | 1214.6 | 1183.8 | 1103.4 | 1041.6 | 981.5 | 958.3 |
| 85° | 586.0 | 606.4 | 704.9 | 848.1 | 963.2 | 1012.5 | 981.5 | 876.1 | 783.3 | 713.7 | 699.1 |
| 87.5° | 367.4 | 386.8 | 458.4 | 586.0 | 737.8 | 813.3 | 777.5 | 647.0 | 541.6 | 477.7 | 465.1 |
| 90° | 240.8 | 252.4 | 295.0 | 378.1 | 508.7 | 613.2 | 572.5 | 450.7 | 360.7 | 303.6 | 297.8 |
| 92.5° | 166.3 | 170.2 | 196.3 | 244.6 | 338.4 | 422.7 | 392.7 | 303.6 | 237.0 | 196.3 | 190.5 |
| 95° | 119.0 | 122.8 | 139.3 | 168.3 | 226.2 | 277.5 | 261.1 | 206.0 | 161.4 | 133.4 | 129.6 |
| 97.5° | 88.0 | 90.9 | 105.4 | 124.8 | 159.5 | 186.7 | 175.1 | 146.1 | 118.0 | 96.7 | 93.9 |
| 100° | 68.7 | 69.6 | 82.2 | 96.7 | 119.0 | 133.4 | 124.8 | 109.3 | 90.9 | 75.4 | 73.5 |
| 102.5° | 54.2 | 55.1 | 64.8 | 76.4 | 91.9 | 102.4 | 95.7 | 84.1 | 70.6 | 60.0 | 59.0 |
| 105° | 42.5 | 43.4 | 50.3 | 60.9 | 73.5 | 80.3 | 75.4 | 65.8 | 54.2 | 46.4 | 46.4 |
| 107.5° | 33.9 | 34.9 | 39.7 | 48.4 | 59.0 | 64.8 | 60.9 | 51.3 | 42.5 | 36.7 | 36.7 |



REPORT NUMBER: P254255

CATALOG NUMBER: LXF.LXT-AF24-100-D-U-5WQ-A-7030

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|--------|------|------|------|------|------|------|------|------|------|------|------|
| 110° | 28.1 | 28.1 | 31.9 | 38.7 | 48.4 | 53.2 | 49.2 | 40.7 | 33.9 | 29.9 | 29.1 |
| 112.5° | 23.2 | 23.2 | 26.1 | 31.9 | 39.7 | 43.4 | 40.7 | 32.9 | 27.1 | 24.1 | 24.1 |
| 115° | 19.3 | 20.3 | 21.3 | 27.1 | 33.9 | 36.7 | 33.9 | 28.1 | 22.3 | 20.3 | 20.3 |
| 117.5° | 17.4 | 17.4 | 19.3 | 23.2 | 29.1 | 31.9 | 29.1 | 24.1 | 19.3 | 18.3 | 18.3 |
| 120° | 15.6 | 15.6 | 16.4 | 19.3 | 25.1 | 27.1 | 25.1 | 20.3 | 17.4 | 16.4 | 16.4 |
| 122.5° | 14.5 | 14.5 | 14.5 | 17.4 | 21.3 | 24.1 | 22.3 | 18.3 | 15.6 | 14.5 | 14.5 |
| 125° | 13.5 | 13.5 | 13.5 | 15.6 | 19.3 | 20.3 | 19.3 | 16.4 | 13.5 | 13.5 | 13.5 |
| 127.5° | 13.5 | 13.5 | 13.5 | 14.5 | 16.4 | 18.3 | 17.4 | 14.5 | 12.6 | 12.6 | 12.6 |
| 130° | 12.6 | 12.6 | 12.6 | 13.5 | 14.5 | 15.6 | 14.5 | 13.5 | 12.6 | 12.6 | 12.6 |
| 132.5° | 11.6 | 11.6 | 11.6 | 11.6 | 12.6 | 13.5 | 12.6 | 11.6 | 11.6 | 11.6 | 11.6 |
| 135° | 10.6 | 10.6 | 10.6 | 9.8 | 10.6 | 11.6 | 10.6 | 9.8 | 9.8 | 10.6 | 10.6 |
| 137.5° | 9.8 | 9.8 | 8.7 | 8.7 | 8.7 | 9.8 | 8.7 | 8.7 | 8.7 | 8.7 | 9.8 |
| 140° | 8.7 | 8.7 | 7.7 | 7.7 | 7.7 | 7.7 | 6.8 | 6.8 | 6.8 | 7.7 | 7.7 |
| 142.5° | 7.7 | 6.8 | 6.8 | 5.8 | 5.8 | 5.8 | 5.8 | 4.8 | 5.8 | 6.8 | 6.8 |
| 145° | 5.8 | 5.8 | 5.8 | 4.8 | 4.8 | 4.8 | 3.9 | 3.9 | 4.8 | 4.8 | 4.8 |
| 147.5° | 4.8 | 4.8 | 3.9 | 3.9 | 2.9 | 2.9 | 2.9 | 2.9 | 3.9 | 3.9 | 3.9 |
| 150° | 3.9 | 3.9 | 2.9 | 2.9 | 1.9 | 1.9 | 1.9 | 1.9 | 2.9 | 2.9 | 2.9 |
| 152.5° | 2.9 | 2.9 | 1.9 | 1.9 | 1.9 | 1.0 | 1.0 | 1.0 | 1.9 | 1.9 | 1.9 |
| 155° | 1.9 | 1.9 | 1.0 | 1.0 | 1.0 | 0.0 | 1.0 | 1.0 | 1.0 | 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 |

(END OF REPORT)