

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: P266228

Luminaire Tested: **LXF.LXT-AF24-100-D-U-5WQ-CL-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P266228
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1806-803-23)
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-CL-7027
Description: DECORATIVE POST TOP LUMINAIRE
(1) 70 CRI, 2700K, 1200mA LIGHT ENGINE WITH 24 LEDS AND TYPE V WIDE OPTICS AND CLEAR LENS PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7722.3 lumens
Efficiency: N/A
Efficacy: 80.4 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 1.17' x H: 0')
IES Classification: Type V - Short - Non-Cutoff
BUG Rating: B3 - U3 - G2

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

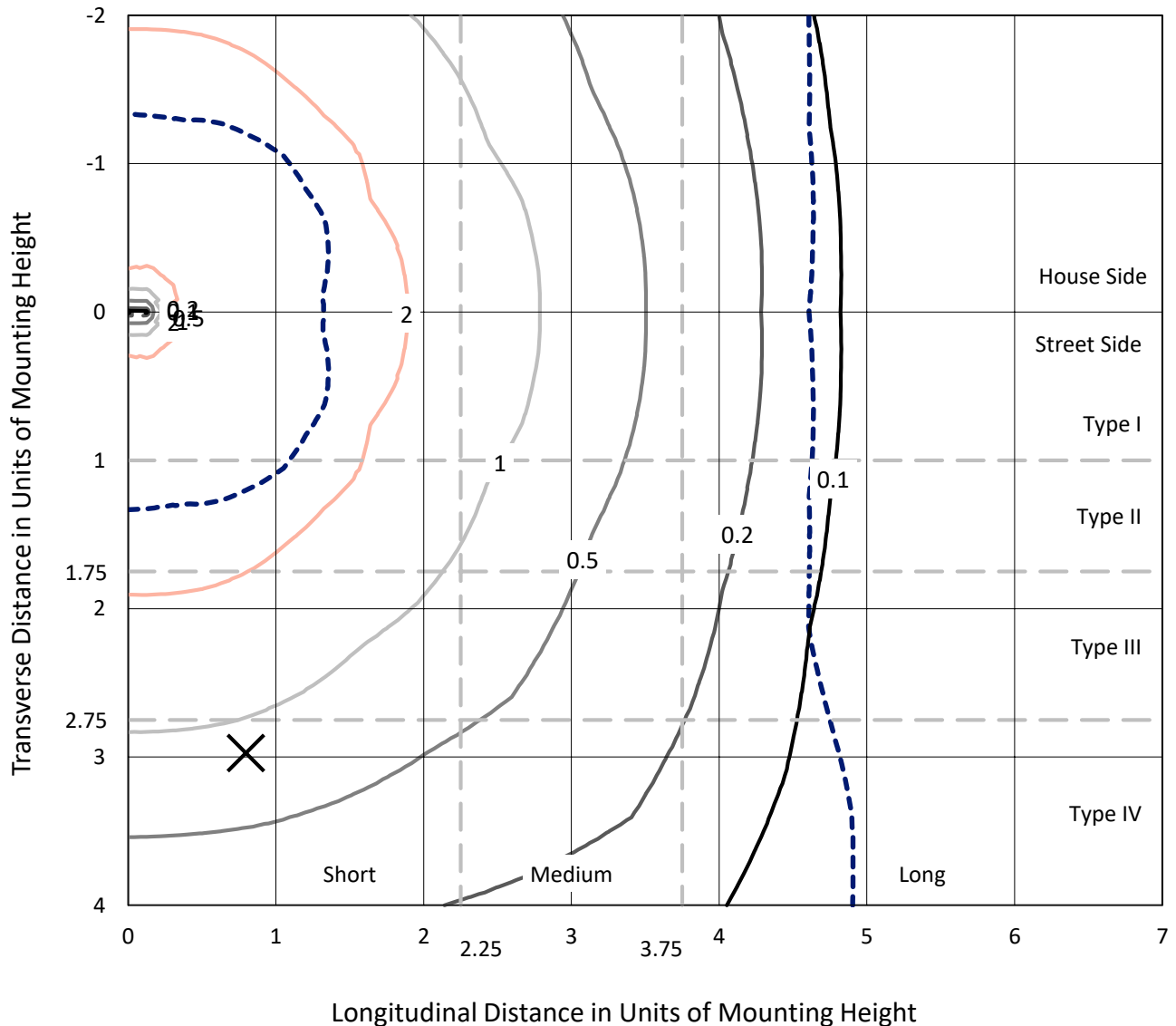


REPORT NUMBER: P266228

CATALOG NUMBER: LXF.LXT-AF24-100-D-U-5WQ-CL-7027

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

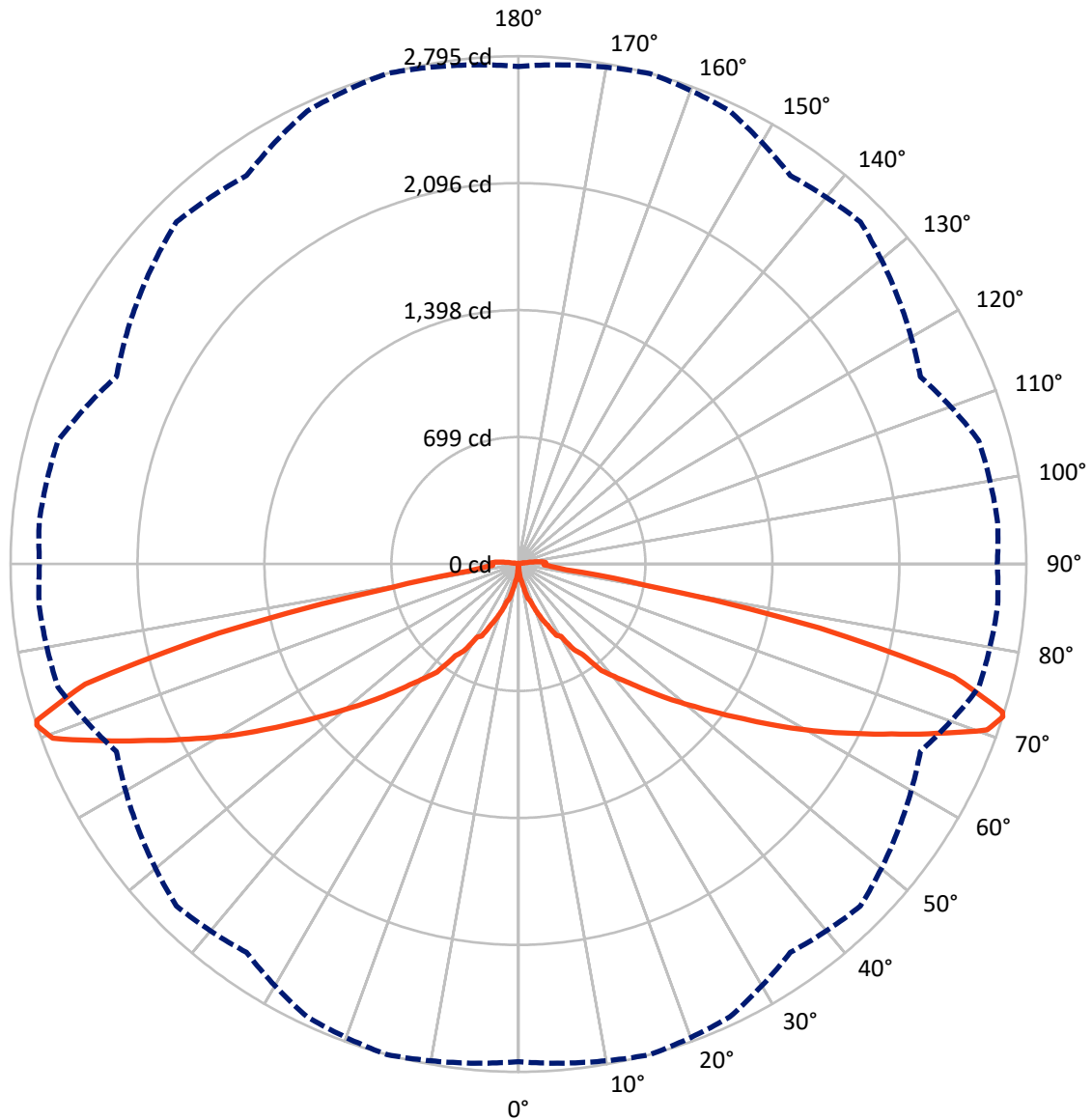


Based on 10 foot mounting height. Maximum calculated value = 4.1 fc
 Type V - Short - Non-Cutoff

REPORT NUMBER: P266228

CATALOG NUMBER: LXF.LXT-AF24-100-D-U-5WQ-CL-7027

Luminous Intensity Polar Plot



— Vertical Plane Through 15-Deg Lateral - - - Horizontal Cone Through 72-Deg Vertical



REPORT NUMBER: P266228

CATALOG NUMBER: LXF.LXT-AF24-100-D-U-5WQ-CL-7027

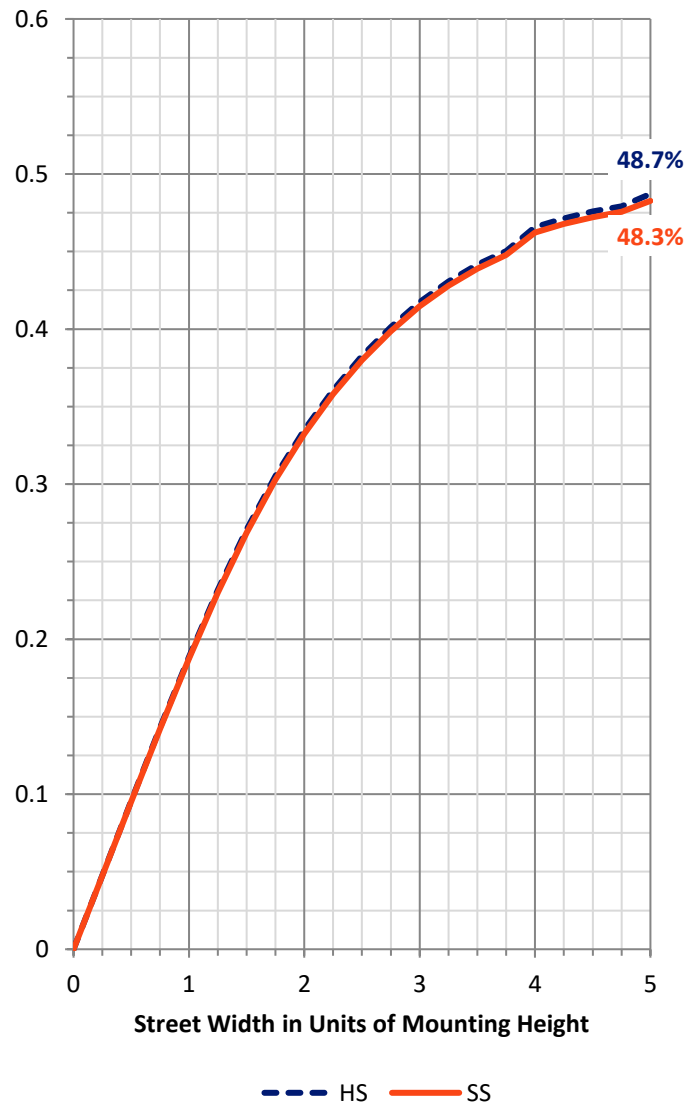
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 3774.1 | 87.1 | 3861.1 |
| | % Fixture | 48.9 | 1.1 | 50.0 |
| Street Side | Lumens | 3774.1 | 87.1 | 3861.1 |
| | % Fixture | 48.9 | 1.1 | 50.0 |
| Total | Lumens | 7548.1 | 174.1 | 7722.3 |
| | % Fixture | 97.7 | 2.3 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 3.4 | 0.0 |
| 10°-20° | 46.5 | 0.6 |
| 20°-30° | 174.8 | 2.3 |
| 30°-40° | 395.2 | 5.1 |
| 40°-50° | 717.9 | 9.3 |
| 50°-60° | 1287.3 | 16.7 |
| 60°-70° | 2175.8 | 28.2 |
| 70°-80° | 2337.5 | 30.3 |
| 80°-90° | 409.8 | 5.3 |
| 90°-100° | 142.5 | 1.8 |
| 100°-110° | 18.9 | 0.2 |
| 110°-120° | 5.3 | 0.1 |
| 120°-130° | 3.4 | 0.0 |
| 130°-140° | 2.0 | 0.0 |
| 140°-150° | 1.6 | 0.0 |
| 150°-160° | 0.4 | 0.0 |
| 160°-170° | 0.0 | 0.0 |
| 170°-180° | 0.0 | 0.0 |
| 0°-90° | 7548.1 | 97.7 |
| 0°-180° | 7722.3 | 100.0 |



REPORT NUMBER: P266228

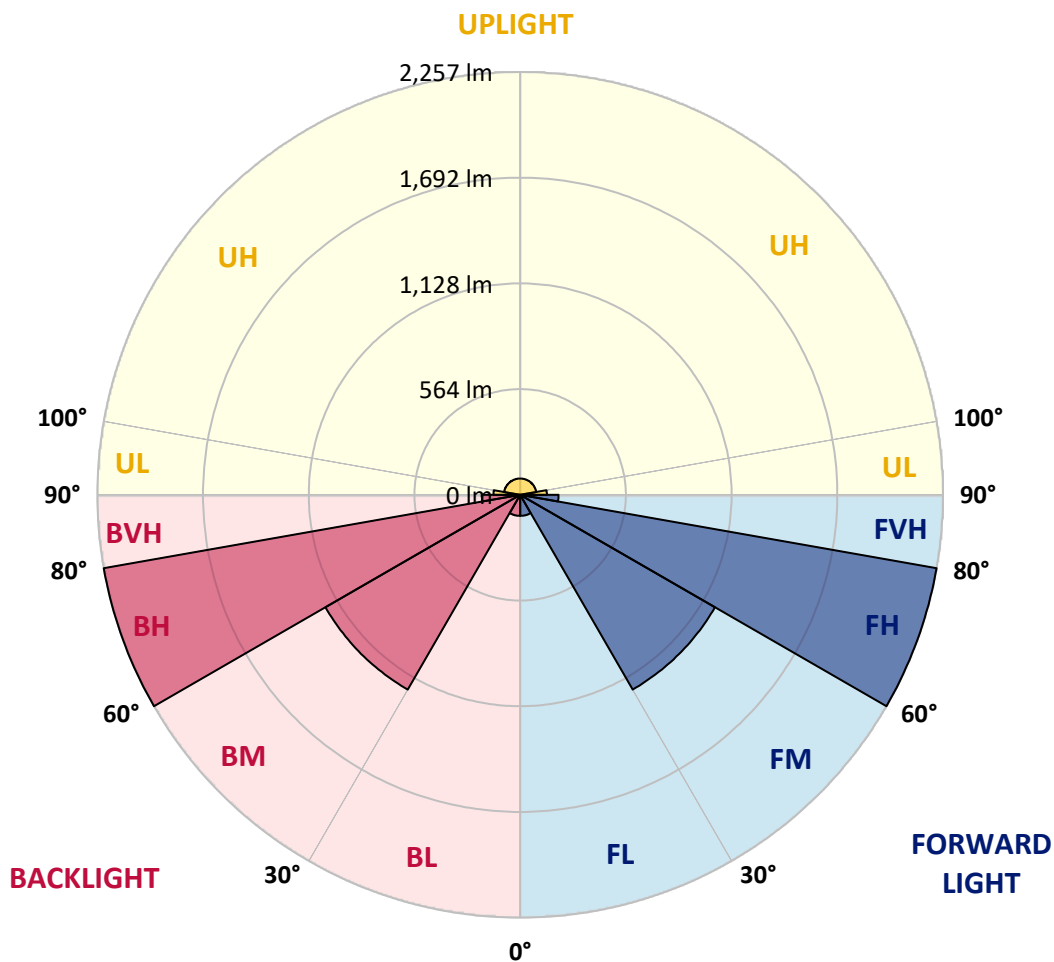
CATALOG NUMBER: LXF.LXT-AF24-100-D-U-5WQ-CL-7027

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|--------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 112.3 | 1.5 | | | |
| FM | (30°-60°) | 1200.2 | 15.5 | | | |
| FH | (60°-80°) | 2256.6 | 29.2 | | | G2/5000 |
| FVH | (80°-90°) | 204.9 | 2.7 | | | G2/225 |
| BL | (0°-30°) | 112.3 | 1.5 | B1/500 | | |
| BM | (30°-60°) | 1200.2 | 15.5 | B2/2500 | | |
| BH | (60°-80°) | 2256.6 | 29.2 | B3/2500 | | G2/5000 |
| BVH | (80°-90°) | 204.9 | 2.7 | | | G2/225 |
| UL | (90°-100°) | 142.5 | 1.8 | | U3/500 | |
| UH | (100°-180°) | 87.1 | 1.1 | | U3/500 | |

BUG Rating: B3-U3-G2

Type V Short





REPORT NUMBER: P266228

CATALOG NUMBER: LXF.LXT-AF24-100-D-U-5WQ-CL-7027

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 5.2 | 5.2 | 5.2 | 5.2 | 5.2 | 5.2 | 5.2 | 5.2 | 5.2 | 5.2 | 5.2 |
| 2.5° | 6.9 | 6.9 | 6.9 | 6.1 | 6.1 | 6.1 | 6.1 | 5.2 | 6.1 | 6.1 | 6.1 |
| 5° | 39.0 | 40.9 | 36.6 | 35.7 | 16.4 | 13.0 | 7.8 | 6.1 | 6.1 | 6.1 | 6.1 |
| 7.5° | 87.8 | 87.8 | 85.2 | 76.4 | 56.5 | 46.9 | 26.1 | 9.5 | 6.9 | 6.1 | 6.1 |
| 10° | 100.8 | 99.1 | 94.7 | 94.7 | 91.3 | 83.5 | 49.5 | 23.4 | 10.4 | 9.5 | 9.5 |
| 12.5° | 152.9 | 152.9 | 139.9 | 128.5 | 101.7 | 92.0 | 78.2 | 55.7 | 57.3 | 92.0 | 105.1 |
| 15° | 204.2 | 204.2 | 196.4 | 182.4 | 145.0 | 107.7 | 140.8 | 165.1 | 139.9 | 150.3 | 151.2 |
| 17.5° | 226.8 | 226.0 | 215.6 | 203.3 | 187.7 | 206.8 | 195.6 | 189.5 | 165.1 | 165.9 | 169.4 |
| 20° | 314.5 | 311.1 | 271.9 | 249.4 | 218.9 | 265.0 | 232.9 | 218.1 | 279.0 | 299.8 | 306.7 |
| 22.5° | 336.2 | 333.6 | 323.2 | 302.4 | 316.3 | 284.1 | 286.6 | 315.5 | 320.6 | 331.0 | 333.6 |
| 25° | 397.9 | 397.1 | 372.7 | 335.3 | 364.1 | 324.9 | 369.3 | 337.1 | 358.0 | 417.1 | 439.7 |
| 27.5° | 454.5 | 452.7 | 444.0 | 401.5 | 384.0 | 421.5 | 393.5 | 438.0 | 483.9 | 497.0 | 507.5 |
| 30° | 509.2 | 506.6 | 462.3 | 468.3 | 428.3 | 446.5 | 479.6 | 487.4 | 504.8 | 538.8 | 540.4 |
| 32.5° | 597.0 | 590.8 | 561.4 | 521.3 | 510.1 | 477.9 | 515.3 | 517.0 | 637.7 | 700.3 | 715.1 |
| 35° | 684.7 | 678.6 | 612.6 | 594.3 | 555.2 | 567.4 | 551.7 | 630.8 | 680.3 | 739.5 | 749.8 |
| 37.5° | 799.4 | 793.4 | 743.7 | 657.7 | 619.6 | 602.1 | 642.1 | 674.3 | 716.8 | 795.9 | 795.0 |
| 40° | 862.0 | 859.3 | 814.1 | 746.4 | 682.1 | 662.1 | 682.9 | 711.5 | 777.7 | 848.9 | 856.8 |
| 42.5° | 936.7 | 930.6 | 894.9 | 815.9 | 762.0 | 731.6 | 727.3 | 783.7 | 854.1 | 929.7 | 931.5 |
| 45° | 1027.0 | 1018.4 | 993.2 | 888.9 | 835.9 | 811.6 | 810.7 | 869.7 | 951.5 | 1027.0 | 1035.7 |
| 47.5° | 1128.7 | 1120.8 | 1104.3 | 982.7 | 931.5 | 900.2 | 920.1 | 957.6 | 1041.0 | 1131.2 | 1140.8 |
| 50° | 1238.1 | 1233.8 | 1219.9 | 1103.5 | 1060.9 | 1010.6 | 1033.1 | 1056.5 | 1156.5 | 1243.3 | 1245.9 |
| 52.5° | 1355.5 | 1358.1 | 1351.9 | 1239.0 | 1192.1 | 1155.6 | 1180.8 | 1176.5 | 1273.7 | 1374.5 | 1372.0 |
| 55° | 1502.3 | 1502.3 | 1504.9 | 1412.9 | 1366.9 | 1303.4 | 1346.7 | 1336.4 | 1425.0 | 1514.5 | 1511.8 |
| 57.5° | 1667.4 | 1668.2 | 1676.1 | 1603.1 | 1563.9 | 1511.8 | 1540.6 | 1520.7 | 1577.1 | 1655.2 | 1647.4 |
| 60° | 1833.4 | 1840.3 | 1864.6 | 1833.4 | 1783.0 | 1738.7 | 1778.6 | 1678.8 | 1747.4 | 1819.4 | 1808.2 |
| 62.5° | 2004.6 | 2015.0 | 2051.5 | 2045.4 | 1991.5 | 1972.4 | 2005.3 | 1875.0 | 1966.3 | 1982.7 | 1971.5 |
| 65° | 2202.6 | 2205.2 | 2256.5 | 2259.1 | 2178.3 | 2215.7 | 2204.4 | 2059.3 | 2187.8 | 2173.1 | 2171.4 |
| 67.5° | 2422.5 | 2440.8 | 2487.6 | 2465.8 | 2358.2 | 2389.4 | 2371.2 | 2233.0 | 2367.8 | 2363.4 | 2355.5 |
| 70° | 2691.9 | 2699.6 | 2737.0 | 2657.0 | 2502.4 | 2545.0 | 2493.8 | 2377.3 | 2562.3 | 2593.6 | 2585.9 |
| 72° | 2738.8 | 2757.8 | 2795.3 | 2750.9 | 2609.2 | 2662.2 | 2551.9 | 2440.8 | 2623.2 | 2647.6 | 2636.3 |
| 72.5° | 2726.5 | 2742.3 | 2785.6 | 2748.4 | 2622.3 | 2679.6 | 2558.9 | 2439.0 | 2607.5 | 2632.8 | 2618.9 |
| 75° | 2376.5 | 2374.7 | 2474.7 | 2544.1 | 2589.4 | 2758.8 | 2525.0 | 2303.4 | 2326.0 | 2321.7 | 2300.0 |
| 77.5° | 1512.7 | 1559.6 | 1693.5 | 1922.1 | 2258.2 | 2566.6 | 2237.4 | 1845.5 | 1653.5 | 1541.4 | 1493.6 |
| 80° | 527.5 | 564.0 | 708.1 | 1013.9 | 1575.3 | 1958.5 | 1567.5 | 1018.4 | 677.7 | 526.5 | 519.6 |
| 82.5° | 209.5 | 239.8 | 264.1 | 350.2 | 737.7 | 1146.1 | 732.5 | 378.8 | 304.2 | 274.6 | 265.9 |
| 85° | 165.9 | 170.3 | 187.7 | 199.9 | 267.6 | 370.1 | 324.9 | 229.3 | 213.7 | 192.0 | 187.7 |
| 87.5° | 146.0 | 149.5 | 140.8 | 144.3 | 186.8 | 207.7 | 204.2 | 147.7 | 132.1 | 145.0 | 139.9 |
| 90° | 152.9 | 154.7 | 141.7 | 143.4 | 189.5 | 212.9 | 197.3 | 139.0 | 137.4 | 152.1 | 146.9 |
| 92.5° | 163.3 | 165.9 | 152.1 | 152.9 | 195.6 | 220.8 | 198.0 | 138.2 | 149.5 | 163.3 | 158.1 |
| 95° | 133.8 | 137.4 | 127.6 | 131.2 | 170.3 | 197.3 | 176.3 | 123.3 | 132.9 | 159.0 | 153.8 |
| 97.5° | 79.1 | 82.6 | 81.7 | 104.3 | 112.1 | 123.3 | 114.8 | 85.2 | 81.7 | 89.6 | 84.4 |
| 100° | 14.0 | 17.3 | 36.6 | 68.6 | 63.4 | 53.9 | 59.1 | 53.0 | 34.8 | 18.2 | 13.0 |
| 102.5° | 13.0 | 14.0 | 26.9 | 37.4 | 26.9 | 19.1 | 26.1 | 31.4 | 20.0 | 12.1 | 12.1 |
| 105° | 13.0 | 14.0 | 14.7 | 15.6 | 8.8 | 7.8 | 11.3 | 18.2 | 12.1 | 12.1 | 12.1 |
| 107.5° | 12.1 | 12.1 | 7.8 | 6.9 | 6.9 | 7.8 | 6.9 | 7.8 | 8.8 | 11.3 | 12.1 |



REPORT NUMBER: P266228

CATALOG NUMBER: LXF.LXT-AF24-100-D-U-5WQ-CL-7027

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|--------|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 110° | 10.4 | 10.4 | 6.9 | 6.1 | 6.1 | 6.9 | 6.1 | 6.9 | 6.9 | 8.8 | 8.8 |
| 112.5° | 7.8 | 7.8 | 5.2 | 5.2 | 5.2 | 6.1 | 5.2 | 5.2 | 6.1 | 6.9 | 6.9 |
| 115° | 7.8 | 7.8 | 5.2 | 4.3 | 4.3 | 5.2 | 4.3 | 4.3 | 5.2 | 6.9 | 6.9 |
| 117.5° | 6.9 | 6.9 | 4.3 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 5.2 | 6.9 | 6.9 |
| 120° | 6.9 | 6.9 | 4.3 | 3.5 | 3.5 | 2.6 | 3.5 | 3.5 | 4.3 | 6.9 | 6.9 |
| 122.5° | 6.9 | 6.9 | 4.3 | 2.6 | 2.6 | 2.6 | 2.6 | 3.5 | 4.3 | 6.1 | 6.9 |
| 125° | 6.9 | 6.1 | 4.3 | 2.6 | 2.6 | 2.6 | 2.6 | 2.6 | 4.3 | 6.1 | 6.1 |
| 127.5° | 6.1 | 6.1 | 4.3 | 2.6 | 2.6 | 1.7 | 1.7 | 2.6 | 3.5 | 5.2 | 6.1 |
| 130° | 6.1 | 6.1 | 4.3 | 2.6 | 2.6 | 1.7 | 1.7 | 1.7 | 3.5 | 5.2 | 5.2 |
| 132.5° | 5.2 | 5.2 | 3.5 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 2.6 | 4.3 | 4.3 |
| 135° | 4.3 | 4.3 | 3.5 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 3.5 | 3.5 |
| 137.5° | 4.3 | 4.3 | 3.5 | 2.6 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 2.6 | 2.6 |
| 140° | 4.3 | 4.3 | 3.5 | 2.6 | 1.7 | 1.7 | 1.7 | 1.7 | 2.6 | 2.6 | 2.6 |
| 142.5° | 4.3 | 4.3 | 3.5 | 2.6 | 1.7 | 1.7 | 1.7 | 1.7 | 2.6 | 2.6 | 2.6 |
| 145° | 4.3 | 4.3 | 3.5 | 2.6 | 1.7 | 1.7 | 1.7 | 2.6 | 2.6 | 3.5 | 3.5 |
| 147.5° | 4.3 | 4.3 | 3.5 | 2.6 | 1.7 | 0.9 | 1.7 | 2.6 | 3.5 | 3.5 | 3.5 |
| 150° | 4.3 | 4.3 | 3.5 | 1.7 | 0.9 | 0.0 | 0.9 | 1.7 | 2.6 | 3.5 | 3.5 |
| 152.5° | 3.5 | 3.5 | 2.6 | 0.9 | 0.9 | 0.0 | 0.0 | 0.9 | 2.6 | 2.6 | 2.6 |
| 155° | 1.7 | 1.7 | 0.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.7 | 1.7 | 1.7 |
| 157.5° | 0.9 | 0.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.9 | 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 |

(END OF REPORT)