

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: P694493

Luminaire Tested: **LXF.LXT-PA16-20-727-U-5WQ-FL**

Issue Date: 7/5/2023

Test Information

Test Method: LM-79-08
Report Number: P694493
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2306-062-4)
Test Lab: INNOVATION CENTER
Issue Date: 7/5/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: LXF.LXT-PA16-20-727-U-5WQ-FL
Description: DECORATIVE POST TOP LUMINAIRE
(1) 70 CRI, 2700K, 420mA LIGHTSQUARE WITH 16 LEDS AND TYPE V WIDE OPTICS
AND FROSTED LENS PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2444 lumens
Efficiency: N/A
Efficacy: 112.1 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1.17' x L: 1.17' x H: 0.83')
IES Classification: Type V - Medium
BUG Rating: B2 - U3 - G2

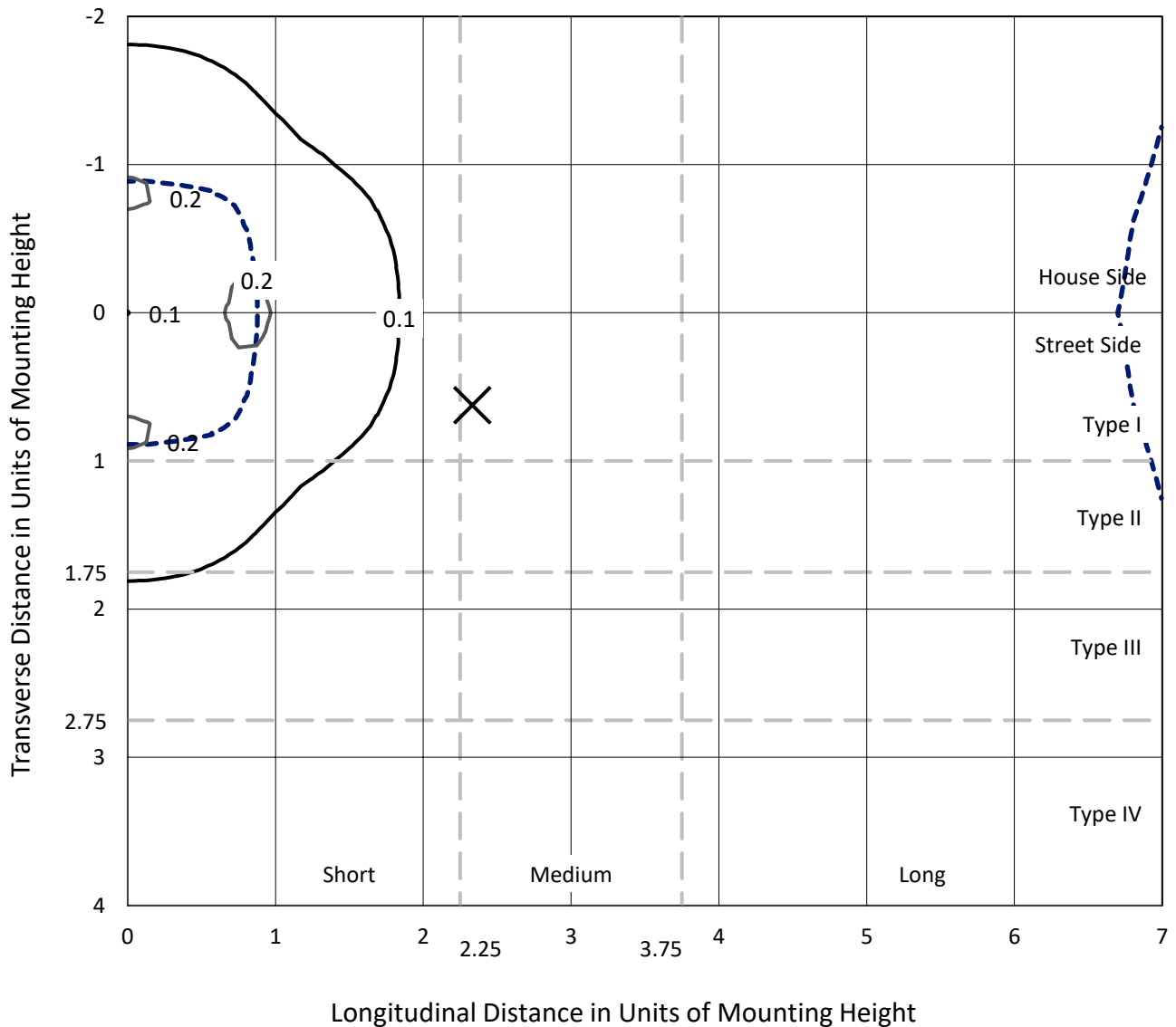
Input Watts (W): 21.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P694493
 CATALOG NUMBER: LXF.LXT-PA16-20-727-U-5WQ-FL

Iso-Footcandle Lines of Horizontal Illumination

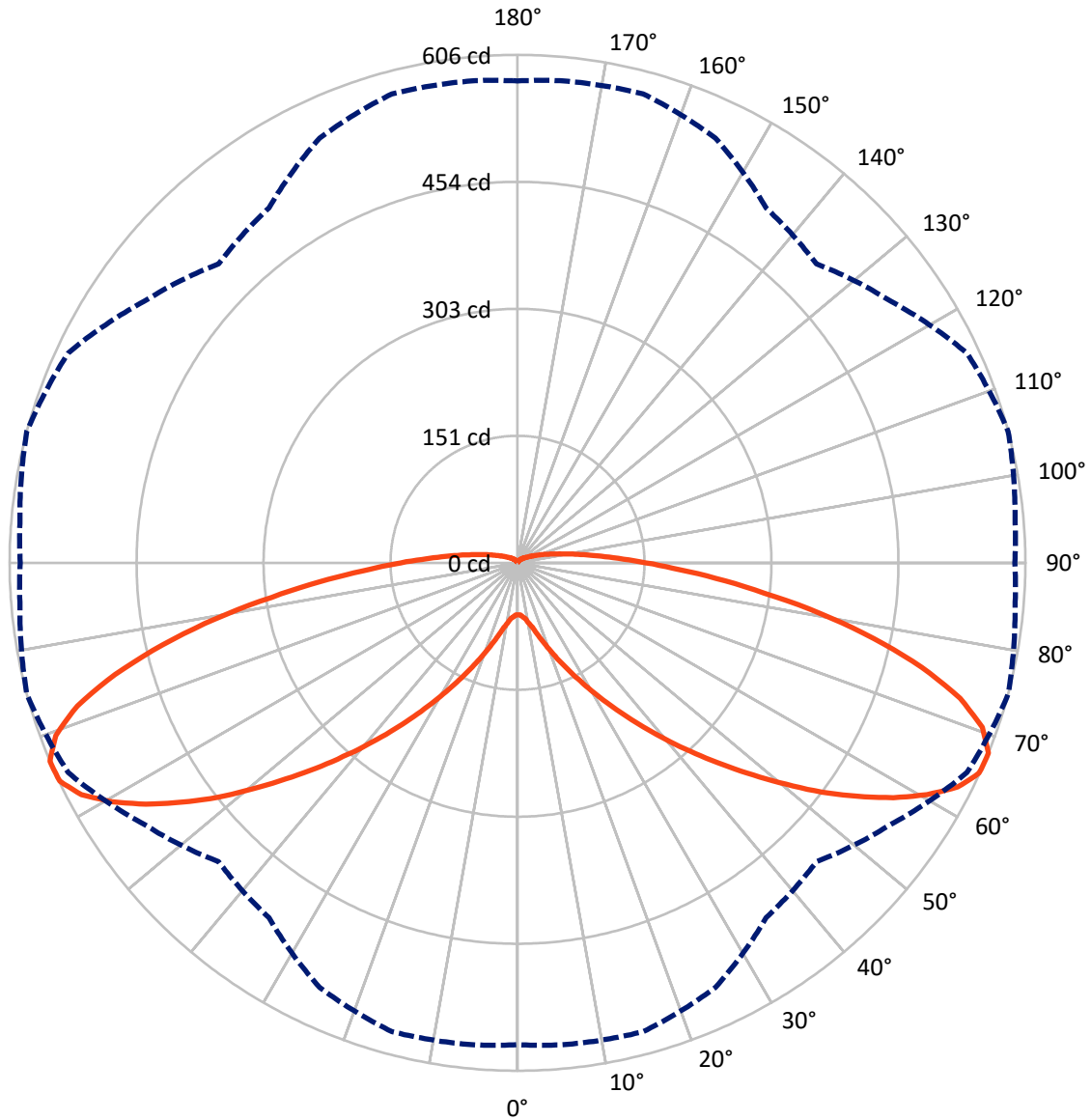
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.2 fc
 Type V - Medium - N/A

REPORT NUMBER: P694493
CATALOG NUMBER: LXF.LXT-PA16-20-727-U-5WQ-FL

Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P694493
 CATALOG NUMBER: LXF.LXT-PA16-20-727-U-5WQ-FL

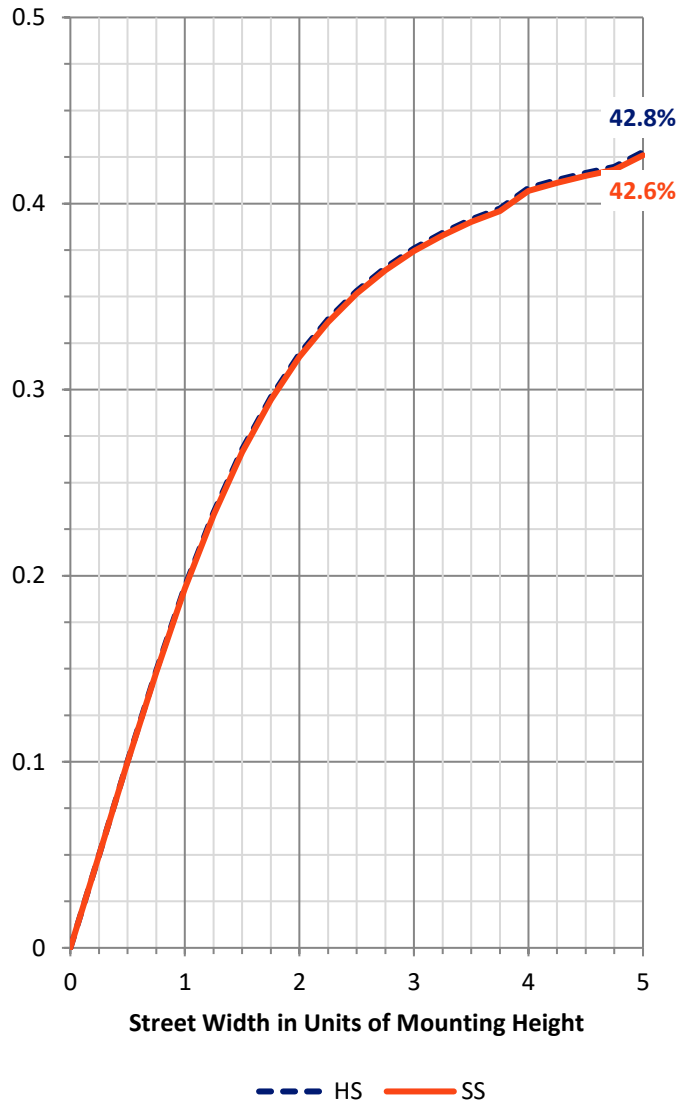
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1115.1 | 106.9 | 1222.0 |
| | % Fixture | 45.6 | 4.4 | 50.0 |
| Street Side | Lumens | 1115.1 | 106.9 | 1222.0 |
| | % Fixture | 45.6 | 4.4 | 50.0 |
| Total | Lumens | 2230.2 | 213.8 | 2444.0 |
| | % Fixture | 91.3 | 8.7 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 6.4 | 0.3 |
| 10°-20° | 26.0 | 1.1 |
| 20°-30° | 66.4 | 2.7 |
| 30°-40° | 139.3 | 5.7 |
| 40°-50° | 254.3 | 10.4 |
| 50°-60° | 411.7 | 16.8 |
| 60°-70° | 547.8 | 22.4 |
| 70°-80° | 499.2 | 20.4 |
| 80°-90° | 279.0 | 11.4 |
| 90°-100° | 118.7 | 4.9 |
| 100°-110° | 51.4 | 2.1 |
| 110°-120° | 24.2 | 1.0 |
| 120°-130° | 11.9 | 0.5 |
| 130°-140° | 5.5 | 0.2 |
| 140°-150° | 2.0 | 0.1 |
| 150°-160° | 0.1 | 0.0 |
| 160°-170° | 0.0 | 0.0 |
| 170°-180° | 0.0 | 0.0 |
| 0°-90° | 2230.2 | 91.3 |
| 0°-180° | 2444.0 | 100.0 |

Coefficient of Utilization



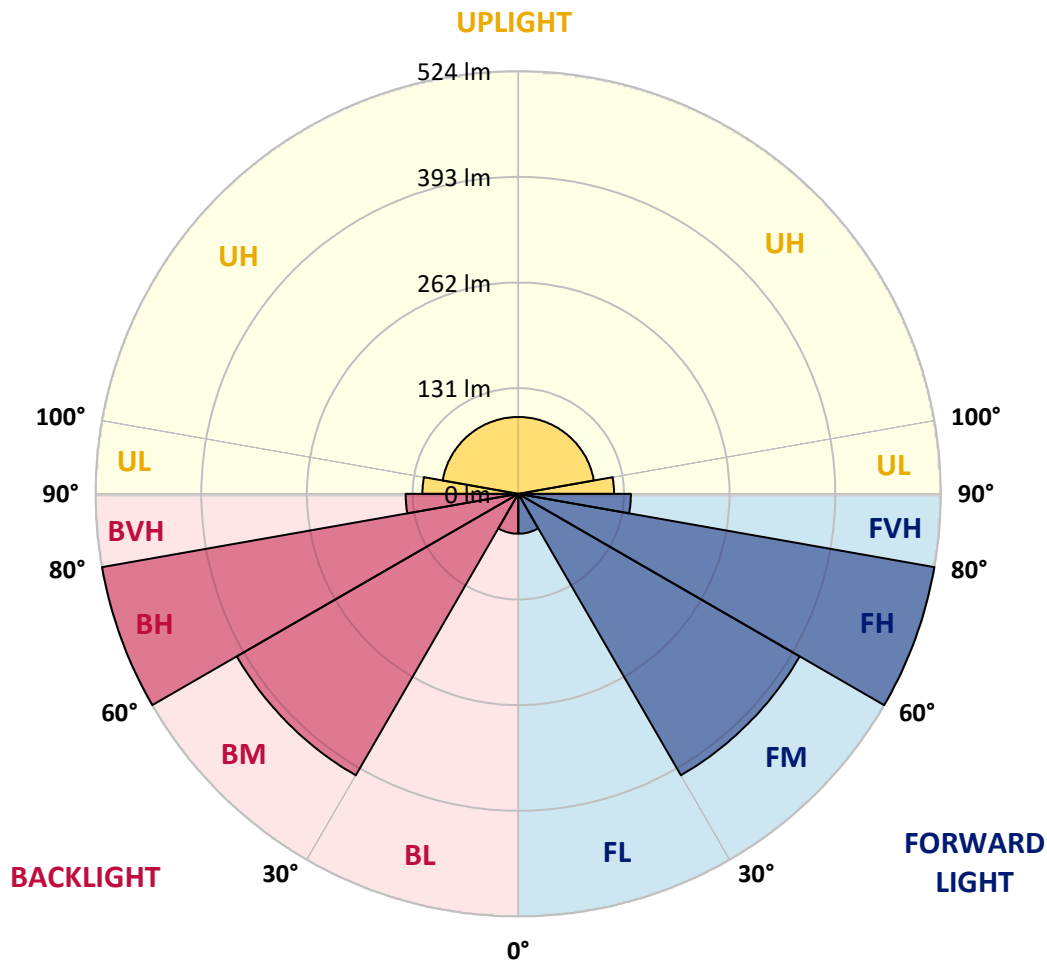
REPORT NUMBER: P694493
 CATALOG NUMBER: LXF.LXT-PA16-20-727-U-5WQ-FL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|--------|--------|
| | | | B | U | G |
| FL (0°-30°) | 49.4 | 2.0 | | | |
| FM (30°-60°) | 402.7 | 16.5 | | | |
| FH (60°-80°) | 523.5 | 21.4 | | | G0/660 |
| FVH (80°-90°) | 139.5 | 5.7 | | | G2/225 |
| BL (0°-30°) | 49.4 | 2.0 | B0/110 | | |
| BM (30°-60°) | 402.7 | 16.5 | B1/1000 | | |
| BH (60°-80°) | 523.5 | 21.4 | B2/1000 | | G0/660 |
| BVH (80°-90°) | 139.5 | 5.7 | | | G2/225 |
| UL (90°-100°) | 118.7 | 4.9 | | U3/500 | |
| UH (100°-180°) | 95.1 | 3.9 | | U3/500 | |

BUG Rating: B2-U3-G2

Type V Medium



REPORT NUMBER: P694493
 CATALOG NUMBER: LXF.LXT-PA16-20-727-U-5WQ-FL

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 62.2 | 62.2 | 62.2 | 62.2 | 62.2 | 62.2 | 62.2 | 62.2 | 62.2 | 62.2 | 62.2 |
| 2.5° | 62.2 | 62.2 | 62.2 | 62.2 | 62.2 | 63.0 | 63.0 | 62.2 | 62.2 | 62.2 | 62.2 |
| 5° | 63.9 | 63.9 | 64.7 | 64.7 | 64.7 | 64.7 | 64.7 | 64.7 | 64.7 | 64.7 | 64.7 |
| 7.5° | 67.2 | 67.2 | 67.2 | 68.1 | 68.1 | 68.1 | 68.1 | 67.2 | 67.2 | 67.2 | 68.1 |
| 10° | 73.1 | 73.1 | 72.3 | 73.1 | 72.3 | 72.3 | 73.1 | 72.3 | 73.1 | 72.3 | 72.3 |
| 12.5° | 79.8 | 79.8 | 79.8 | 79.8 | 79.0 | 79.0 | 79.0 | 79.0 | 79.0 | 79.8 | 79.8 |
| 15° | 89.1 | 89.1 | 89.1 | 88.2 | 87.4 | 86.6 | 87.4 | 88.2 | 88.2 | 89.1 | 89.1 |
| 17.5° | 100.8 | 100.8 | 100.0 | 99.2 | 98.3 | 97.5 | 97.5 | 98.3 | 99.2 | 100.0 | 100.0 |
| 20° | 113.4 | 113.4 | 112.6 | 110.9 | 109.2 | 110.1 | 110.1 | 110.9 | 111.8 | 112.6 | 112.6 |
| 22.5° | 127.7 | 126.9 | 126.1 | 124.4 | 123.5 | 122.7 | 123.5 | 123.5 | 126.1 | 127.7 | 126.9 |
| 25° | 143.7 | 143.7 | 142.0 | 139.5 | 137.8 | 137.8 | 138.7 | 139.5 | 142.0 | 143.7 | 144.5 |
| 27.5° | 162.2 | 160.5 | 158.8 | 156.3 | 153.8 | 152.9 | 153.8 | 157.1 | 159.7 | 163.0 | 162.2 |
| 30° | 182.4 | 181.5 | 178.2 | 174.8 | 170.6 | 168.9 | 172.3 | 175.6 | 179.8 | 182.4 | 184.0 |
| 32.5° | 204.2 | 204.2 | 200.0 | 194.1 | 189.1 | 187.4 | 189.9 | 196.6 | 201.7 | 205.0 | 207.6 |
| 35° | 227.7 | 227.7 | 222.7 | 216.0 | 209.2 | 205.9 | 210.9 | 219.3 | 226.1 | 231.1 | 231.9 |
| 37.5° | 255.5 | 253.8 | 248.7 | 239.5 | 228.6 | 226.9 | 232.8 | 242.9 | 252.1 | 258.0 | 258.0 |
| 40° | 283.2 | 281.5 | 276.5 | 264.7 | 250.4 | 247.9 | 254.6 | 269.8 | 280.7 | 285.7 | 286.6 |
| 42.5° | 313.5 | 310.9 | 305.9 | 293.3 | 275.6 | 270.6 | 280.7 | 298.3 | 310.9 | 316.8 | 316.8 |
| 45° | 342.9 | 343.7 | 336.1 | 321.9 | 302.5 | 295.0 | 307.6 | 328.6 | 343.7 | 348.7 | 350.4 |
| 47.5° | 375.6 | 376.5 | 368.9 | 351.3 | 329.4 | 322.7 | 337.0 | 359.7 | 378.2 | 382.4 | 384.0 |
| 50° | 411.8 | 411.8 | 405.9 | 384.0 | 359.7 | 350.4 | 368.1 | 397.5 | 415.1 | 419.3 | 420.2 |
| 52.5° | 447.1 | 446.2 | 442.0 | 417.7 | 389.9 | 379.8 | 400.0 | 433.6 | 454.6 | 455.5 | 455.5 |
| 55° | 482.4 | 481.5 | 476.5 | 452.9 | 420.2 | 409.3 | 433.6 | 471.4 | 491.6 | 493.3 | 494.1 |
| 57.5° | 513.5 | 513.5 | 508.4 | 484.9 | 448.7 | 437.0 | 465.6 | 507.6 | 528.6 | 528.6 | 528.6 |
| 60° | 542.0 | 542.0 | 539.5 | 514.3 | 475.6 | 463.0 | 495.8 | 541.2 | 561.4 | 558.8 | 558.8 |
| 62.5° | 563.9 | 564.7 | 563.0 | 537.8 | 496.6 | 484.9 | 521.0 | 568.9 | 589.1 | 584.0 | 581.5 |
| 65° | 576.5 | 577.3 | 578.2 | 554.6 | 512.6 | 500.0 | 537.8 | 588.2 | 605.1 | 597.5 | 595.0 |
| 67.5° | 574.8 | 577.3 | 579.0 | 558.8 | 516.8 | 504.2 | 543.7 | 591.6 | 605.9 | 595.8 | 593.3 |
| 70° | 558.8 | 562.2 | 565.6 | 548.7 | 510.1 | 498.3 | 536.1 | 580.7 | 588.2 | 576.5 | 572.3 |
| 72.5° | 527.7 | 528.6 | 537.0 | 525.2 | 491.6 | 479.8 | 512.6 | 550.4 | 552.1 | 537.8 | 532.8 |
| 75° | 481.5 | 481.5 | 492.4 | 484.0 | 458.8 | 448.7 | 475.6 | 503.4 | 498.3 | 483.2 | 477.3 |
| 77.5° | 422.7 | 426.9 | 436.1 | 435.3 | 415.1 | 410.1 | 429.4 | 442.0 | 434.5 | 415.1 | 409.3 |
| 80° | 357.1 | 360.5 | 374.0 | 377.3 | 365.6 | 360.5 | 374.0 | 378.2 | 366.4 | 347.1 | 342.0 |
| 82.5° | 296.6 | 300.0 | 312.6 | 321.9 | 314.3 | 310.1 | 316.8 | 313.5 | 296.6 | 279.8 | 276.5 |
| 85° | 241.2 | 242.0 | 257.1 | 263.9 | 263.9 | 260.5 | 261.3 | 252.1 | 237.0 | 219.3 | 214.3 |
| 87.5° | 192.4 | 192.4 | 205.9 | 216.0 | 218.5 | 216.0 | 213.4 | 201.7 | 184.9 | 170.6 | 169.8 |
| 90° | 152.1 | 152.9 | 163.9 | 174.0 | 178.2 | 176.5 | 170.6 | 158.8 | 145.4 | 132.8 | 131.1 |
| 92.5° | 121.0 | 122.7 | 131.1 | 141.2 | 146.2 | 145.4 | 138.7 | 127.7 | 114.3 | 104.2 | 103.4 |
| 95° | 97.5 | 97.5 | 105.0 | 113.4 | 119.3 | 119.3 | 113.4 | 102.5 | 90.8 | 81.5 | 80.7 |
| 97.5° | 77.3 | 78.2 | 84.9 | 92.4 | 97.5 | 97.5 | 92.4 | 83.2 | 72.3 | 64.7 | 63.0 |
| 100° | 63.0 | 63.0 | 68.1 | 75.6 | 80.7 | 80.7 | 75.6 | 67.2 | 58.0 | 51.3 | 50.4 |
| 102.5° | 50.4 | 51.3 | 55.5 | 62.2 | 66.4 | 67.2 | 63.0 | 56.3 | 47.1 | 41.2 | 41.2 |
| 105° | 42.0 | 42.0 | 46.2 | 51.3 | 55.5 | 56.3 | 52.9 | 46.2 | 38.7 | 33.6 | 32.8 |
| 107.5° | 34.5 | 34.5 | 37.8 | 43.7 | 47.1 | 47.9 | 44.5 | 38.7 | 31.9 | 27.7 | 26.9 |
| 110° | 29.4 | 28.6 | 31.1 | 36.1 | 40.3 | 40.3 | 37.8 | 32.8 | 26.1 | 22.7 | 22.7 |

REPORT NUMBER: P694493
 CATALOG NUMBER: LXF.LXT-PA16-20-727-U-5WQ-FL

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|--------|------|------|------|------|------|------|------|------|------|------|------|
| 112.5° | 24.4 | 24.4 | 26.1 | 30.3 | 33.6 | 35.3 | 32.8 | 27.7 | 21.8 | 19.3 | 19.3 |
| 115° | 21.0 | 21.0 | 22.7 | 26.1 | 29.4 | 29.4 | 27.7 | 22.7 | 18.5 | 16.8 | 16.8 |
| 117.5° | 18.5 | 18.5 | 19.3 | 21.8 | 24.4 | 25.2 | 23.5 | 19.3 | 16.0 | 14.3 | 14.3 |
| 120° | 16.0 | 16.0 | 16.8 | 18.5 | 21.0 | 21.8 | 20.2 | 16.8 | 13.4 | 12.6 | 12.6 |
| 122.5° | 14.3 | 14.3 | 14.3 | 16.0 | 18.5 | 18.5 | 16.8 | 14.3 | 11.8 | 10.9 | 10.9 |
| 125° | 12.6 | 12.6 | 12.6 | 13.4 | 15.1 | 16.0 | 14.3 | 11.8 | 10.1 | 10.1 | 10.1 |
| 127.5° | 10.9 | 10.9 | 10.9 | 11.8 | 13.4 | 13.4 | 12.6 | 10.1 | 9.2 | 9.2 | 9.2 |
| 130° | 10.1 | 10.1 | 10.1 | 10.1 | 10.9 | 10.9 | 10.1 | 8.4 | 8.4 | 8.4 | 8.4 |
| 132.5° | 8.4 | 8.4 | 8.4 | 8.4 | 9.2 | 9.2 | 8.4 | 7.6 | 6.7 | 7.6 | 7.6 |
| 135° | 7.6 | 7.6 | 7.6 | 7.6 | 7.6 | 7.6 | 6.7 | 5.9 | 5.9 | 6.7 | 6.7 |
| 137.5° | 6.7 | 6.7 | 6.7 | 5.9 | 5.9 | 5.9 | 5.0 | 5.0 | 5.9 | 5.9 | 5.9 |
| 140° | 5.9 | 5.9 | 5.0 | 5.0 | 5.0 | 4.2 | 4.2 | 4.2 | 5.0 | 5.0 | 5.0 |
| 142.5° | 5.0 | 5.0 | 4.2 | 4.2 | 3.4 | 3.4 | 3.4 | 3.4 | 4.2 | 4.2 | 4.2 |
| 145° | 3.4 | 3.4 | 3.4 | 3.4 | 2.5 | 2.5 | 2.5 | 2.5 | 3.4 | 3.4 | 3.4 |
| 147.5° | 2.5 | 2.5 | 2.5 | 2.5 | 1.7 | 1.7 | 1.7 | 2.5 | 2.5 | 2.5 | 2.5 |
| 150° | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 0.8 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 |
| 152.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 155° | 0.0 | 0.0 | 0.0 | 0.0 | 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)