

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: P182352

Luminaire Tested: **LXF-E02-LED-E-U-SYM-BK-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P182352
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P34329)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: LXF-E02-LED-E-U-SYM-BK-7050
Description: LEXINGTON LED OUTDOOR LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - SYMMETRIC
Light Source: (42) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5067.4 lumens
Efficiency: N/A
Efficacy: 97.3 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 1' x H: 0.83')
IES Classification: Type V - Short - Non-Cutoff
BUG Rating: B2 - U4 - G3

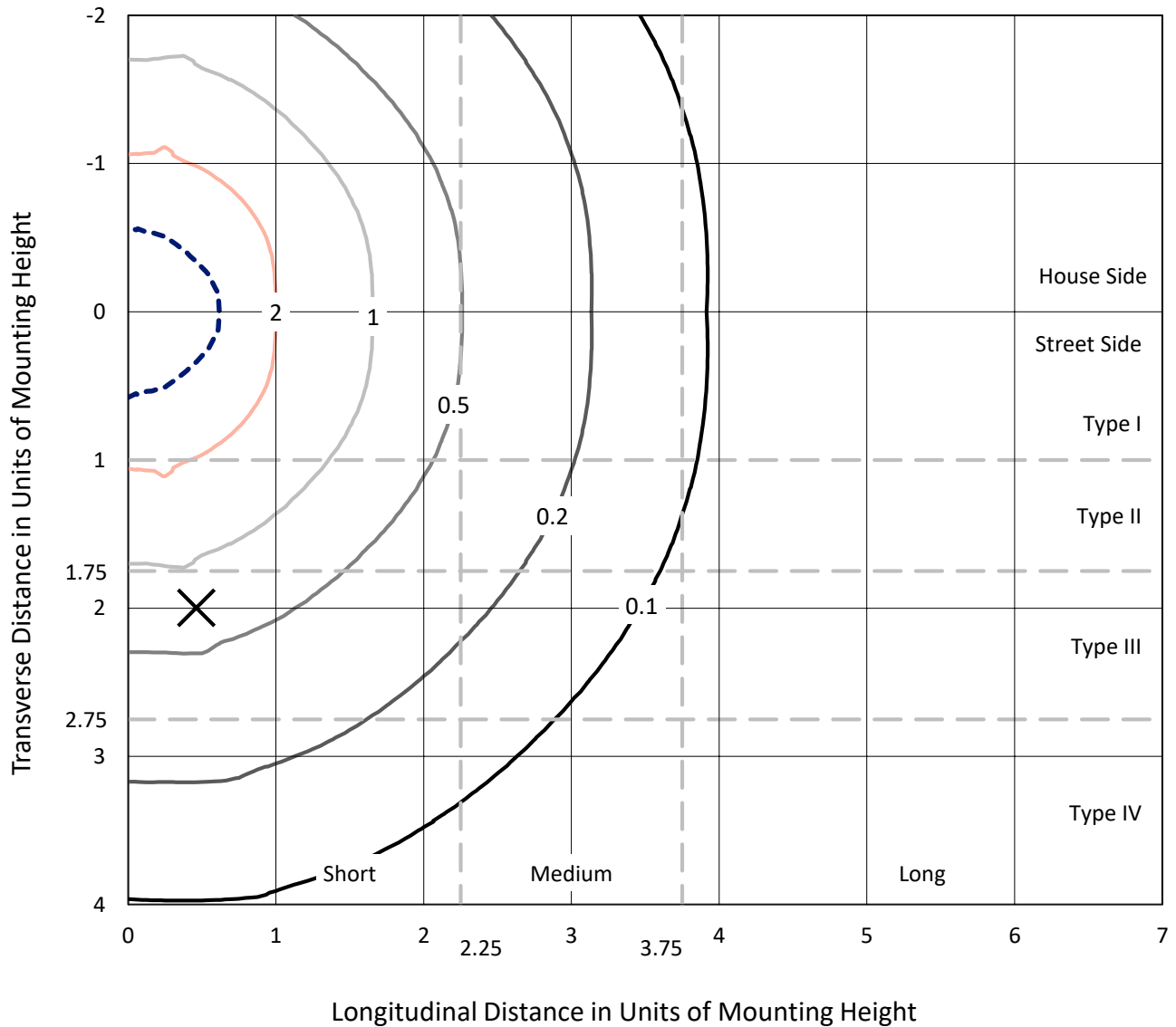
Input Watts (W): 52.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P182352
 CATALOG NUMBER: LXF-E02-LED-E-U-SYM-BK-7050

Iso-Footcandle Lines of Horizontal Illumination

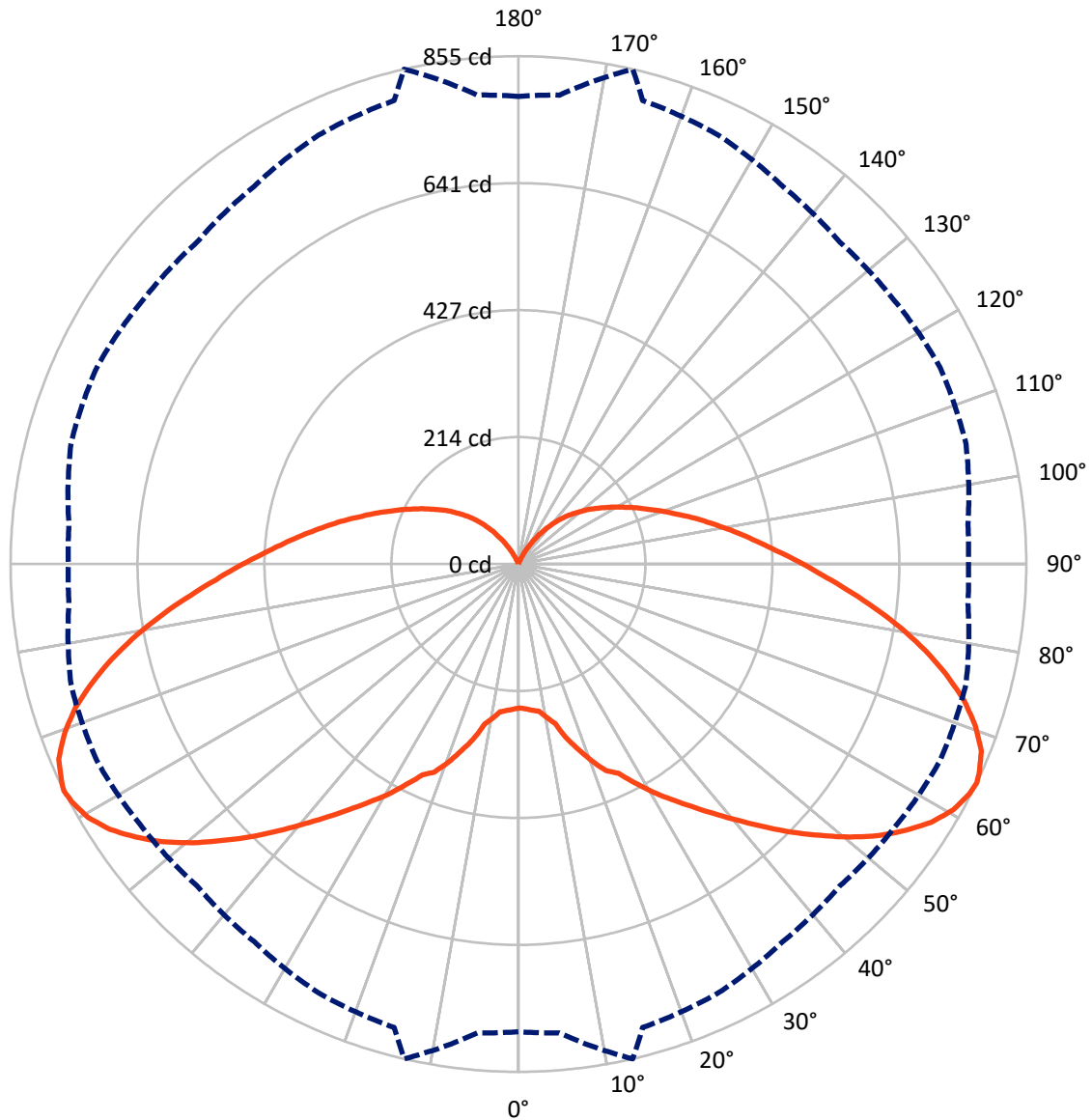
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 2.8 fc
 Type V - Short - Non-Cutoff

REPORT NUMBER: P182352
CATALOG NUMBER: LXF-E02-LED-E-U-SYM-BK-7050

Luminous Intensity Polar Plot



— Vertical Plane Through 13-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

REPORT NUMBER: P182352

CATALOG NUMBER: LXF-E02-LED-E-U-SYM-BK-7050

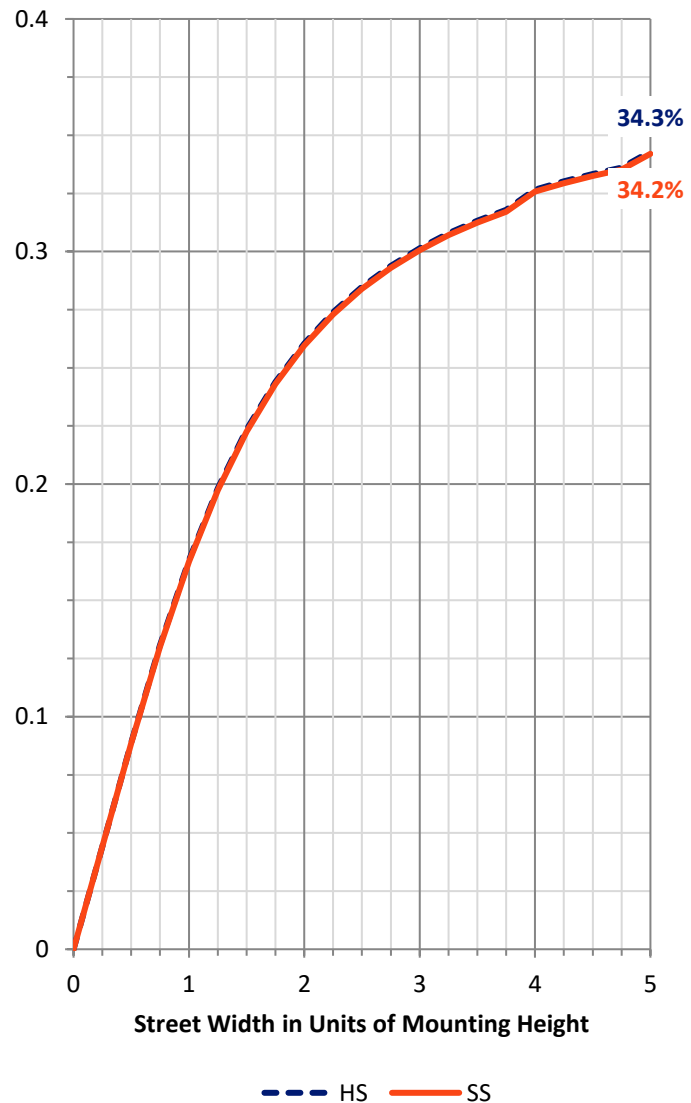
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1907.3 | 626.4 | 2533.7 |
| | % Fixture | 37.6 | 12.4 | 50.0 |
| Street Side | Lumens | 1907.3 | 626.4 | 2533.7 |
| | % Fixture | 37.6 | 12.4 | 50.0 |
| Total | Lumens | 3814.7 | 1252.8 | 5067.4 |
| | % Fixture | 75.3 | 24.7 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 24.5 | 0.5 |
| 10°-20° | 84.1 | 1.7 |
| 20°-30° | 173.8 | 3.4 |
| 30°-40° | 301.6 | 6.0 |
| 40°-50° | 466.3 | 9.2 |
| 50°-60° | 645.8 | 12.7 |
| 60°-70° | 771.9 | 15.2 |
| 70°-80° | 747.1 | 14.7 |
| 80°-90° | 599.6 | 11.8 |
| 90°-100° | 446.5 | 8.8 |
| 100°-110° | 325.8 | 6.4 |
| 110°-120° | 227.6 | 4.5 |
| 120°-130° | 145.1 | 2.9 |
| 130°-140° | 76.9 | 1.5 |
| 140°-150° | 27.4 | 0.5 |
| 150°-160° | 3.5 | 0.1 |
| 160°-170° | 0.0 | 0.0 |
| 170°-180° | 0.0 | 0.0 |
| 0°-90° | 3814.7 | 75.3 |
| 0°-180° | 5067.4 | 100.0 |



REPORT NUMBER: P182352

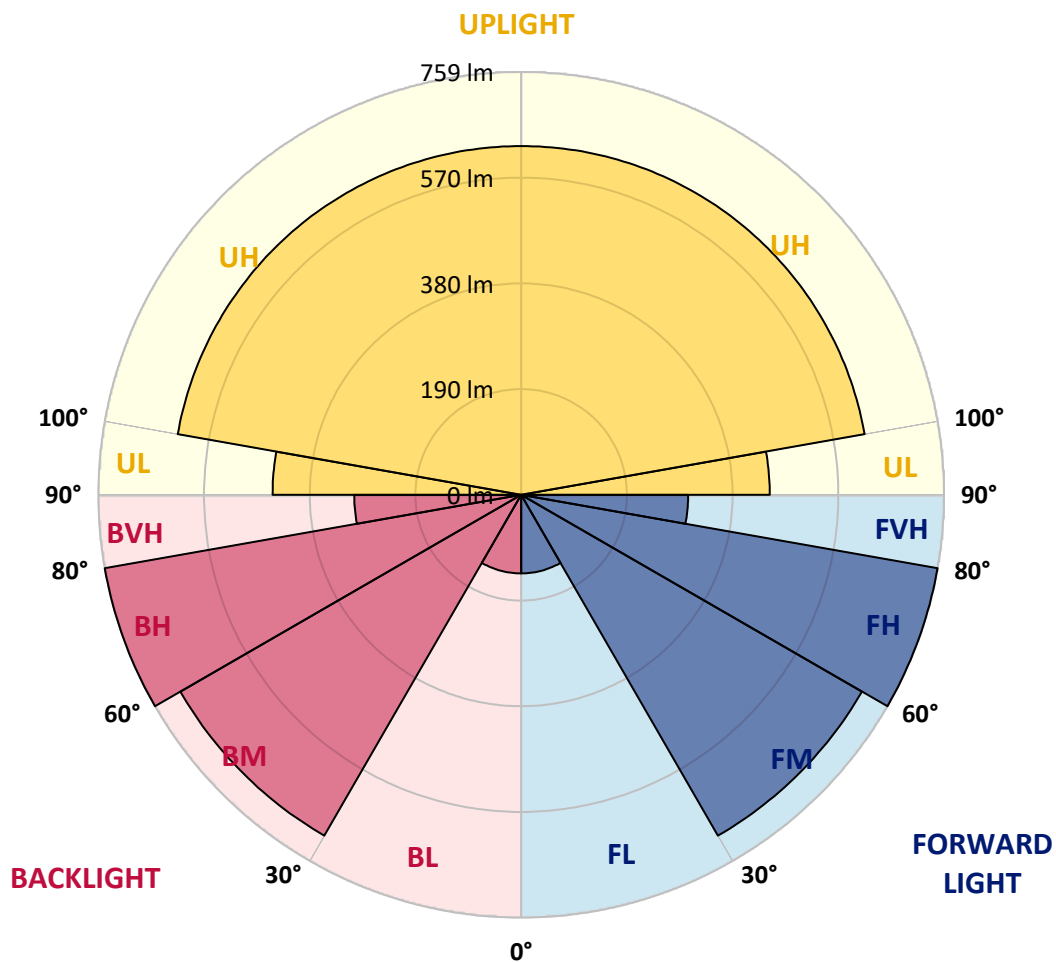
CATALOG NUMBER: LXF-E02-LED-E-U-SYM-BK-7050

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|---------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 141.2 | 2.8 | | | |
| FM | (30°-60°) | 706.8 | 13.9 | | | |
| FH | (60°-80°) | 759.5 | 15.0 | | | G1/1800 |
| FVH | (80°-90°) | 299.8 | 5.9 | | | G3/500 |
| BL | (0°-30°) | 141.2 | 2.8 | B1/500 | | |
| BM | (30°-60°) | 706.8 | 13.9 | B1/1000 | | |
| BH | (60°-80°) | 759.5 | 15.0 | B2/1000 | | G1/1800 |
| BVH | (80°-90°) | 299.8 | 5.9 | | | G3/500 |
| UL | (90°-100°) | 446.5 | 8.8 | | U3/500 | |
| UH | (100°-180°) | 626.4 | 12.4 | | U4/1000 | |

BUG Rating: B2-U4-G3

Type V Short





REPORT NUMBER: P182352

CATALOG NUMBER: LXF-E02-LED-E-U-SYM-BK-7050

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 13° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 242.2 | 242.2 | 242.2 | 242.2 | 242.2 | 242.2 | 242.2 | 242.2 | 242.2 | 242.2 | 242.2 |
| 2.5° | 242.2 | 242.2 | 244.2 | 242.2 | 243.2 | 244.2 | 243.2 | 243.2 | 244.2 | 244.2 | 244.2 |
| 5° | 245.2 | 244.2 | 247.3 | 244.2 | 246.3 | 250.4 | 251.4 | 256.5 | 257.6 | 258.6 | 255.5 |
| 7.5° | 247.3 | 247.3 | 250.4 | 246.3 | 252.4 | 259.6 | 261.7 | 259.6 | 264.7 | 268.8 | 262.7 |
| 10° | 255.5 | 254.5 | 262.7 | 257.6 | 259.6 | 264.7 | 269.9 | 275.0 | 272.9 | 279.1 | 271.9 |
| 12.5° | 265.8 | 266.8 | 276.0 | 268.8 | 277.0 | 279.1 | 278.1 | 280.1 | 278.1 | 282.2 | 281.2 |
| 15° | 287.3 | 286.3 | 304.8 | 294.5 | 293.5 | 292.4 | 289.4 | 286.3 | 288.3 | 290.4 | 288.3 |
| 17.5° | 306.8 | 307.8 | 328.4 | 315.0 | 321.2 | 315.0 | 301.7 | 297.6 | 299.6 | 302.7 | 305.8 |
| 20° | 329.4 | 328.4 | 354.0 | 338.6 | 345.8 | 334.5 | 323.2 | 316.0 | 319.1 | 322.2 | 324.2 |
| 22.5° | 349.9 | 350.9 | 377.6 | 358.1 | 360.2 | 356.1 | 346.8 | 342.7 | 338.6 | 340.7 | 341.7 |
| 25° | 373.5 | 373.5 | 389.9 | 371.5 | 375.6 | 375.6 | 375.6 | 369.4 | 359.1 | 360.2 | 362.2 |
| 27.5° | 399.2 | 399.2 | 416.6 | 397.1 | 398.1 | 403.3 | 402.2 | 397.1 | 384.8 | 382.7 | 385.8 |
| 30° | 422.8 | 422.8 | 445.3 | 422.8 | 427.9 | 432.0 | 429.9 | 423.8 | 413.5 | 406.3 | 407.4 |
| 32.5° | 447.4 | 447.4 | 472.0 | 448.4 | 455.6 | 460.7 | 459.7 | 454.6 | 441.2 | 428.9 | 428.9 |
| 35° | 474.1 | 474.1 | 500.7 | 475.1 | 486.4 | 491.5 | 490.5 | 484.3 | 471.0 | 453.5 | 454.6 |
| 37.5° | 503.8 | 502.8 | 532.5 | 504.8 | 516.1 | 520.2 | 519.2 | 513.1 | 501.8 | 481.2 | 481.2 |
| 40° | 532.5 | 532.5 | 566.4 | 536.7 | 547.9 | 552.0 | 550.0 | 543.8 | 532.5 | 513.1 | 507.9 |
| 42.5° | 564.4 | 563.3 | 604.4 | 570.5 | 579.7 | 582.8 | 578.7 | 573.6 | 564.4 | 545.9 | 537.7 |
| 45° | 596.2 | 596.2 | 643.4 | 605.4 | 613.6 | 612.6 | 611.6 | 605.4 | 596.2 | 577.7 | 566.4 |
| 47.5° | 631.1 | 630.0 | 682.4 | 640.3 | 647.5 | 643.4 | 640.3 | 635.2 | 627.0 | 609.5 | 595.1 |
| 50° | 661.8 | 661.8 | 722.4 | 674.2 | 678.3 | 674.2 | 668.0 | 663.9 | 657.7 | 643.4 | 625.9 |
| 52.5° | 695.7 | 694.7 | 759.3 | 707.0 | 709.0 | 700.8 | 692.6 | 691.6 | 687.5 | 674.2 | 655.7 |
| 55° | 724.4 | 724.4 | 791.1 | 737.8 | 736.7 | 724.4 | 717.2 | 716.2 | 716.2 | 704.9 | 685.4 |
| 57.5° | 750.1 | 751.1 | 819.9 | 765.5 | 760.3 | 746.0 | 736.7 | 737.8 | 741.9 | 733.7 | 712.1 |
| 60° | 770.6 | 772.7 | 840.4 | 787.0 | 779.8 | 762.4 | 752.1 | 756.2 | 763.4 | 757.3 | 735.7 |
| 62.5° | 783.9 | 788.0 | 851.7 | 802.4 | 792.2 | 772.7 | 762.4 | 768.6 | 776.8 | 773.7 | 753.2 |
| 64° | 787.0 | 792.2 | 854.7 | 807.5 | 796.3 | 775.7 | 765.5 | 772.7 | 782.9 | 779.8 | 759.3 |
| 65° | 787.0 | 793.2 | 851.7 | 808.6 | 798.3 | 775.7 | 765.5 | 773.7 | 785.0 | 781.9 | 760.3 |
| 67.5° | 780.9 | 788.0 | 840.4 | 803.4 | 793.2 | 771.6 | 761.4 | 769.6 | 780.9 | 777.8 | 757.3 |
| 70° | 762.4 | 771.6 | 815.8 | 788.0 | 778.8 | 758.3 | 749.1 | 756.2 | 767.5 | 765.5 | 743.9 |
| 72.5° | 733.7 | 743.9 | 783.9 | 762.4 | 756.2 | 738.8 | 728.5 | 735.7 | 746.0 | 741.9 | 719.3 |
| 75° | 695.7 | 708.0 | 743.9 | 729.6 | 727.5 | 712.1 | 703.9 | 710.1 | 716.2 | 707.0 | 682.4 |
| 77.5° | 655.7 | 669.0 | 699.8 | 691.6 | 692.6 | 681.3 | 675.2 | 677.2 | 680.3 | 662.9 | 637.2 |
| 80° | 613.6 | 622.8 | 652.6 | 647.5 | 653.6 | 646.4 | 640.3 | 640.3 | 636.2 | 618.7 | 588.0 |
| 82.5° | 568.5 | 577.7 | 603.4 | 604.4 | 615.7 | 610.5 | 606.4 | 602.3 | 594.1 | 571.5 | 538.7 |
| 85° | 521.3 | 529.5 | 555.1 | 558.2 | 571.5 | 572.6 | 569.5 | 564.4 | 552.0 | 526.4 | 490.5 |
| 87.5° | 478.2 | 485.3 | 510.0 | 513.1 | 531.5 | 537.7 | 534.6 | 530.5 | 513.1 | 483.3 | 448.4 |
| 90° | 440.2 | 445.3 | 471.0 | 473.0 | 493.6 | 503.8 | 502.8 | 493.6 | 476.1 | 444.3 | 409.4 |
| 92.5° | 406.3 | 408.4 | 434.0 | 436.1 | 458.7 | 471.0 | 472.0 | 462.8 | 443.3 | 408.4 | 376.6 |
| 95° | 374.5 | 377.6 | 402.2 | 402.2 | 427.9 | 442.3 | 443.3 | 434.0 | 411.5 | 378.6 | 347.8 |
| 97.5° | 347.8 | 348.9 | 373.5 | 373.5 | 399.2 | 413.5 | 416.6 | 406.3 | 384.8 | 350.9 | 321.2 |
| 100° | 322.2 | 322.2 | 345.8 | 345.8 | 371.5 | 387.9 | 390.9 | 379.7 | 357.1 | 323.2 | 296.5 |
| 102.5° | 299.6 | 298.6 | 321.2 | 320.1 | 346.8 | 363.2 | 366.3 | 356.1 | 333.5 | 299.6 | 275.0 |
| 105° | 279.1 | 278.1 | 297.6 | 296.5 | 323.2 | 340.7 | 344.8 | 333.5 | 308.9 | 276.0 | 256.5 |
| 107.5° | 260.6 | 259.6 | 275.0 | 274.0 | 301.7 | 318.1 | 322.2 | 310.9 | 286.3 | 254.5 | 238.1 |



REPORT NUMBER: P182352

CATALOG NUMBER: LXF-E02-LED-E-U-SYM-BK-7050

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 13° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 110° | 243.2 | 241.1 | 255.5 | 253.4 | 280.1 | 296.5 | 300.6 | 289.4 | 265.8 | 235.0 | 223.7 |
| 112.5° | 226.8 | 225.7 | 236.0 | 232.9 | 260.6 | 277.0 | 280.1 | 269.9 | 245.2 | 216.5 | 208.3 |
| 115° | 212.4 | 211.4 | 219.6 | 215.5 | 239.1 | 255.5 | 260.6 | 249.3 | 224.7 | 200.1 | 195.0 |
| 117.5° | 198.0 | 198.0 | 203.2 | 199.1 | 219.6 | 237.0 | 240.1 | 228.8 | 206.2 | 184.7 | 182.6 |
| 120° | 184.7 | 183.7 | 188.8 | 182.6 | 200.1 | 216.5 | 219.6 | 208.3 | 187.8 | 171.4 | 171.4 |
| 122.5° | 171.4 | 171.4 | 174.4 | 168.3 | 179.6 | 197.0 | 200.1 | 189.8 | 169.3 | 158.0 | 159.0 |
| 125° | 159.0 | 158.0 | 161.1 | 152.9 | 160.1 | 175.5 | 179.6 | 170.3 | 152.9 | 145.7 | 147.8 |
| 127.5° | 145.7 | 144.7 | 148.8 | 139.6 | 142.6 | 154.9 | 159.0 | 150.8 | 137.5 | 134.4 | 137.5 |
| 130° | 132.4 | 131.3 | 135.4 | 126.2 | 124.2 | 133.4 | 138.5 | 131.3 | 122.1 | 123.1 | 127.2 |
| 132.5° | 119.0 | 118.0 | 123.1 | 112.9 | 107.7 | 112.9 | 117.0 | 112.9 | 107.7 | 110.8 | 115.9 |
| 135° | 105.7 | 105.7 | 110.8 | 99.5 | 92.3 | 93.4 | 95.4 | 94.4 | 93.4 | 100.6 | 104.7 |
| 137.5° | 93.4 | 92.3 | 97.5 | 87.2 | 78.0 | 74.9 | 75.9 | 75.9 | 79.0 | 88.2 | 93.4 |
| 140° | 79.0 | 79.0 | 83.1 | 73.9 | 63.6 | 57.5 | 57.5 | 58.5 | 65.7 | 75.9 | 81.1 |
| 142.5° | 65.7 | 65.7 | 69.8 | 60.5 | 51.3 | 42.1 | 41.0 | 44.1 | 53.4 | 62.6 | 67.7 |
| 145° | 53.4 | 52.3 | 55.4 | 48.2 | 39.0 | 28.7 | 25.7 | 30.8 | 41.0 | 50.3 | 55.4 |
| 147.5° | 40.0 | 40.0 | 43.1 | 35.9 | 28.7 | 18.5 | 15.4 | 19.5 | 29.8 | 38.0 | 42.1 |
| 150° | 28.7 | 27.7 | 30.8 | 24.6 | 18.5 | 11.3 | 6.2 | 11.3 | 19.5 | 25.7 | 29.8 |
| 152.5° | 18.5 | 17.4 | 19.5 | 15.4 | 11.3 | 5.1 | 2.1 | 6.2 | 11.3 | 16.4 | 19.5 |
| 155° | 9.2 | 9.2 | 10.3 | 8.2 | 5.1 | 2.1 | 1.0 | 2.1 | 5.1 | 8.2 | 10.3 |
| 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 |



REPORT NUMBER: P182352

CATALOG NUMBER: LXF-E02-LED-E-U-SYM-BK-7050

CANDELA DISTRIBUTION (continued):

| | 90° |
|--------|-------|
| 0° | 242.2 |
| 2.5° | 244.2 |
| 5° | 255.5 |
| 7.5° | 262.7 |
| 10° | 266.8 |
| 12.5° | 280.1 |
| 15° | 289.4 |
| 17.5° | 304.8 |
| 20° | 324.2 |
| 22.5° | 342.7 |
| 25° | 362.2 |
| 27.5° | 385.8 |
| 30° | 408.4 |
| 32.5° | 429.9 |
| 35° | 455.6 |
| 37.5° | 481.2 |
| 40° | 510.0 |
| 42.5° | 535.6 |
| 45° | 565.4 |
| 47.5° | 596.2 |
| 50° | 625.9 |
| 52.5° | 656.7 |
| 55° | 686.5 |
| 57.5° | 713.1 |
| 60° | 734.7 |
| 62.5° | 751.1 |
| 64° | 757.3 |
| 65° | 757.3 |
| 67.5° | 751.1 |
| 70° | 736.7 |
| 72.5° | 710.1 |
| 75° | 671.1 |
| 77.5° | 625.9 |
| 80° | 575.6 |
| 82.5° | 529.5 |
| 85° | 481.2 |
| 87.5° | 440.2 |
| 90° | 403.3 |
| 92.5° | 371.5 |
| 95° | 344.8 |
| 97.5° | 319.1 |
| 100° | 295.5 |
| 102.5° | 275.0 |
| 105° | 257.6 |
| 107.5° | 239.1 |



REPORT NUMBER: P182352

CATALOG NUMBER: LXF-E02-LED-E-U-SYM-BK-7050

CANDELA DISTRIBUTION (continued):

| | 90° |
|--------|-------|
| 110° | 223.7 |
| 112.5° | 208.3 |
| 115° | 196.0 |
| 117.5° | 183.7 |
| 120° | 171.4 |
| 122.5° | 160.1 |
| 125° | 148.8 |
| 127.5° | 138.5 |
| 130° | 128.3 |
| 132.5° | 117.0 |
| 135° | 105.7 |
| 137.5° | 93.4 |
| 140° | 81.1 |
| 142.5° | 67.7 |
| 145° | 55.4 |
| 147.5° | 42.1 |
| 150° | 29.8 |
| 152.5° | 19.5 |
| 155° | 10.3 |
| 157.5° | 0.0 |
| 160° | 0.0 |
| 162.5° | 0.0 |
| 165° | 0.0 |
| 167.5° | 0.0 |
| 170° | 0.0 |
| 172.5° | 0.0 |
| 175° | 0.0 |
| 177.5° | 0.0 |
| 180° | 0.0 |

(END OF REPORT)