

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: P415230

Luminaire Tested: **LXF.LXT-PA1-40-827-U-5WQ-FL**

Issue Date: 10/26/2020

Test Information

Test Method: LM-79-08
Report Number: P415230
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1907-433-16)
Test Lab: INNOVATION CENTER
Issue Date: 10/26/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: LXF.LXT-PA1-40-827-U-5WQ-FL
Description: DECORATIVE POST TOP LUMINAIRE
(1) 80 CRI, 2700K, 500mA LIGHT ENGINE WITH 24 LEDS AND TYPE V WIDE OPTICS
AND FROSTED LENS PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3610 lumens
Efficiency: N/A
Efficacy: 90.2 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1.17' x L: 1.17' x H: 0.83')
IES Classification: Type V - Medium - Non-Cutoff
BUG Rating: B2 - U3 - G2

Input Watts (W): 40
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

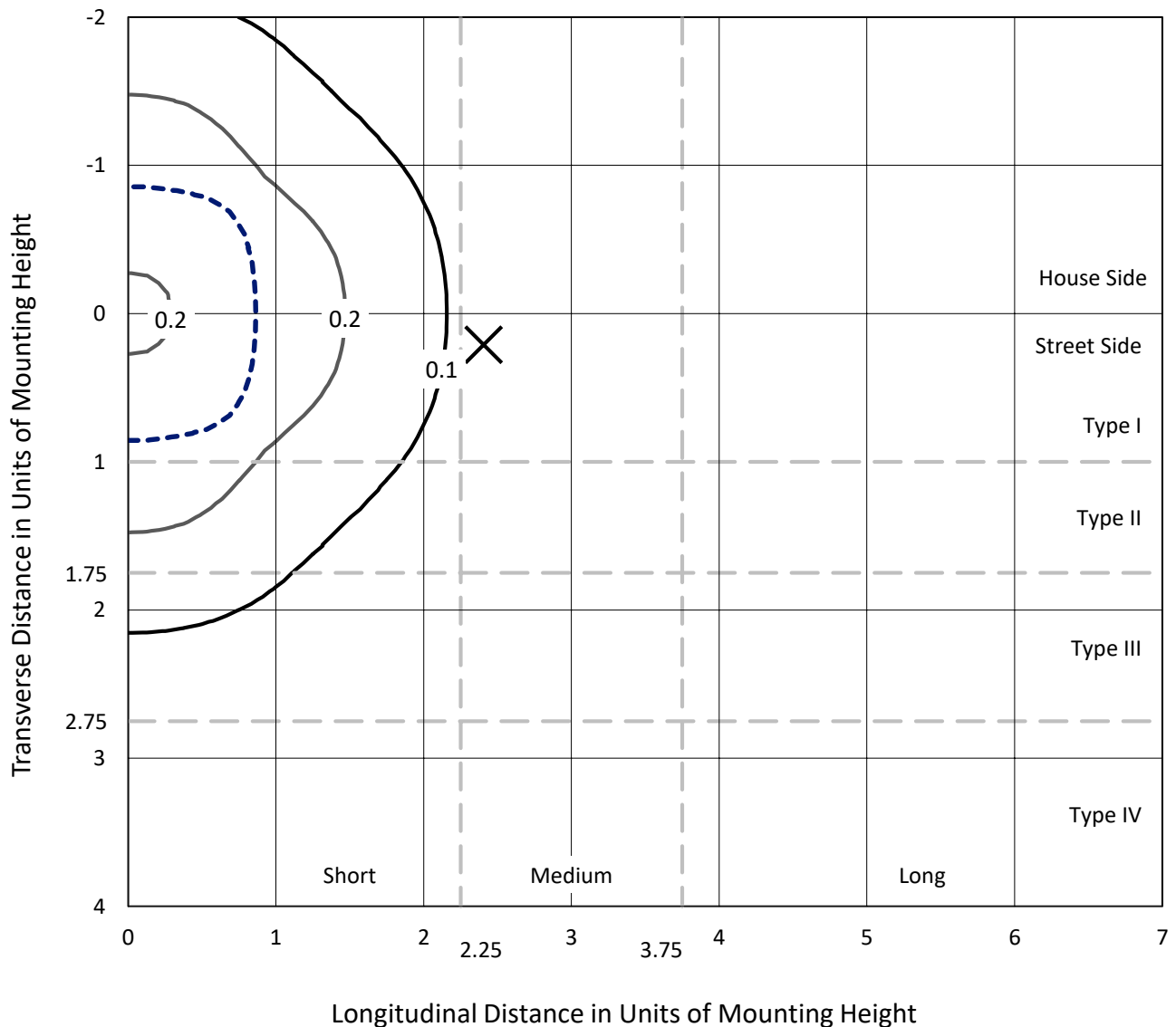


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Iso-Footcandle Lines of Horizontal Illumination

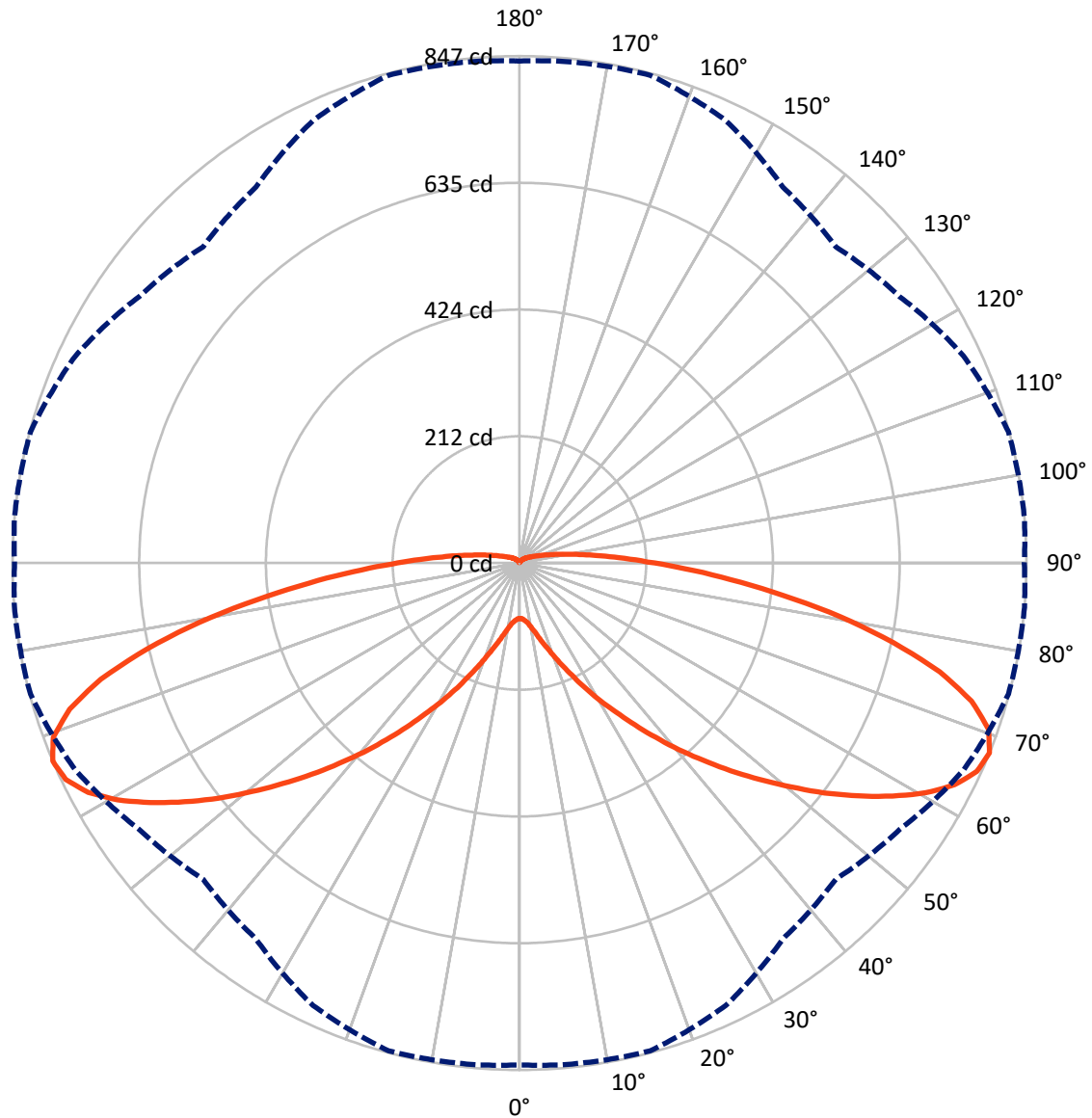
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.3 fc
 Type V - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 85-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1637.0 | 168.0 | 1805.0 |
| | % Fixture | 45.3 | 4.7 | 50.0 |
| Street Side | Lumens | 1637.0 | 168.0 | 1805.0 |
| | % Fixture | 45.3 | 4.7 | 50.0 |
| Total | Lumens | 3273.9 | 336.1 | 3610.0 |
| | % Fixture | 90.7 | 9.3 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 9.6 | 0.3 |
| 10°-20° | 39.2 | 1.1 |
| 20°-30° | 99.2 | 2.7 |
| 30°-40° | 204.2 | 5.7 |
| 40°-50° | 367.1 | 10.2 |
| 50°-60° | 586.9 | 16.3 |
| 60°-70° | 785.2 | 21.8 |
| 70°-80° | 744.1 | 20.6 |
| 80°-90° | 438.3 | 12.1 |
| 90°-100° | 189.3 | 5.2 |
| 100°-110° | 80.6 | 2.2 |
| 110°-120° | 37.1 | 1.0 |
| 120°-130° | 17.8 | 0.5 |
| 130°-140° | 8.0 | 0.2 |
| 140°-150° | 2.7 | 0.1 |
| 150°-160° | 0.5 | 0.0 |
| 160°-170° | 0.0 | 0.0 |
| 170°-180° | 0.0 | 0.0 |
| 0°-90° | 3273.9 | 90.7 |
| 0°-180° | 3610.0 | 100.0 |



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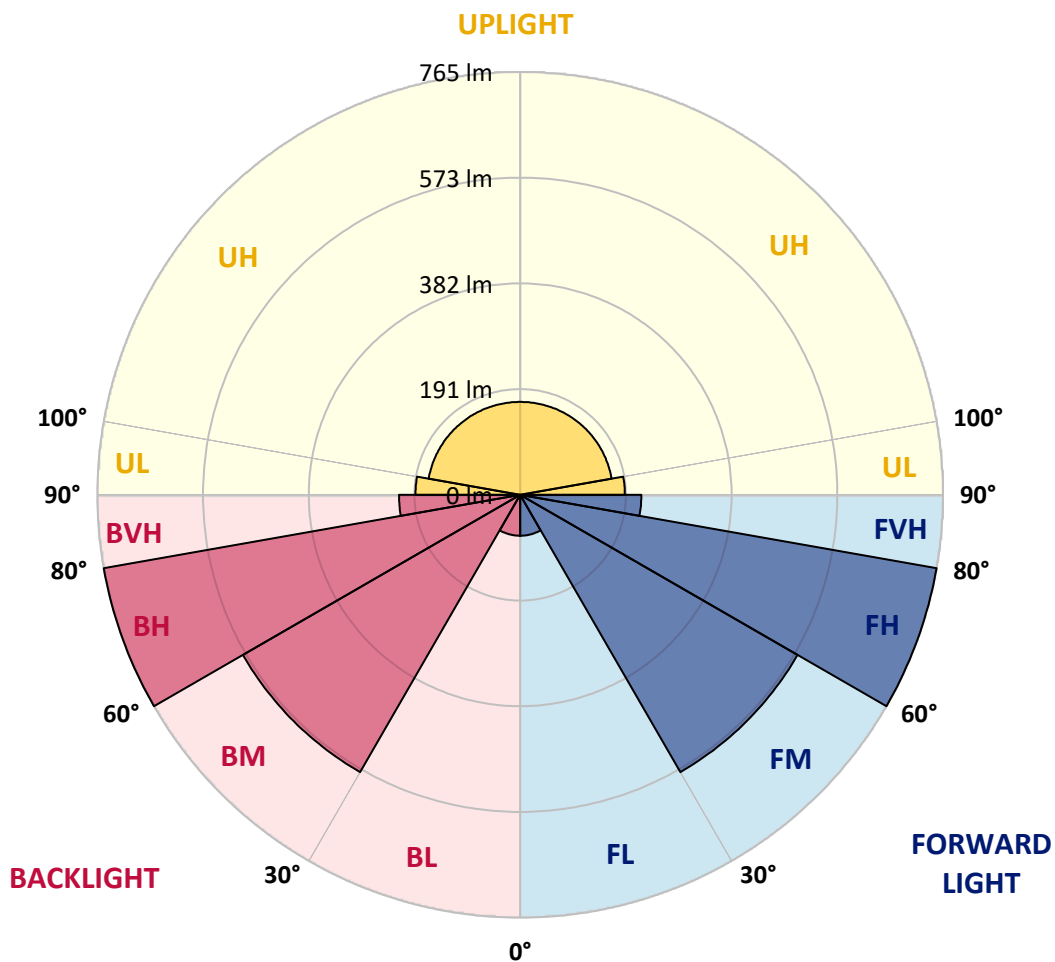
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|--------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 74.1 | 2.1 | | | |
| FM | (30°-60°) | 579.1 | 16.0 | | | |
| FH | (60°-80°) | 764.7 | 21.2 | | | G1/1800 |
| FVH | (80°-90°) | 219.1 | 6.1 | | | G2/225 |
| BL | (0°-30°) | 74.1 | 2.1 | B0/110 | | |
| BM | (30°-60°) | 579.1 | 16.0 | B1/1000 | | |
| BH | (60°-80°) | 764.7 | 21.2 | B2/1000 | | G1/1800 |
| BVH | (80°-90°) | 219.1 | 6.1 | | | G2/225 |
| UL | (90°-100°) | 189.3 | 5.2 | | U3/500 | |
| UH | (100°-180°) | 168.0 | 4.7 | | U3/500 | |

BUG Rating: B2-U3-G2

Type V Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 92.6 | 92.6 | 92.6 | 92.6 | 92.6 | 92.6 | 92.6 | 92.6 | 92.6 | 92.6 | 92.6 |
| 2.5° | 93.4 | 93.0 | 93.4 | 93.4 | 93.8 | 93.8 | 93.8 | 93.8 | 93.4 | 93.4 | 93.4 |
| 5° | 96.6 | 96.6 | 96.6 | 96.6 | 97.0 | 97.0 | 97.0 | 96.6 | 96.6 | 96.6 | 96.6 |
| 7.5° | 102.6 | 102.2 | 102.6 | 102.2 | 102.2 | 101.8 | 102.2 | 101.8 | 101.4 | 101.4 | 101.4 |
| 10° | 110.3 | 110.3 | 110.3 | 109.9 | 109.9 | 109.9 | 109.1 | 109.1 | 109.1 | 109.5 | 109.1 |
| 12.5° | 122.8 | 122.0 | 122.0 | 120.3 | 119.5 | 119.1 | 118.7 | 118.7 | 119.9 | 119.9 | 119.1 |
| 15° | 137.3 | 136.8 | 136.8 | 134.8 | 133.2 | 130.8 | 131.2 | 132.8 | 132.8 | 133.6 | 133.2 |
| 17.5° | 154.6 | 154.2 | 152.9 | 150.9 | 148.9 | 147.3 | 146.5 | 147.3 | 148.1 | 148.5 | 148.9 |
| 20° | 173.5 | 173.1 | 171.5 | 169.4 | 167.4 | 166.6 | 163.8 | 165.0 | 165.8 | 166.6 | 166.2 |
| 22.5° | 193.6 | 193.6 | 192.0 | 189.2 | 187.2 | 185.5 | 184.3 | 183.1 | 186.0 | 187.6 | 188.0 |
| 25° | 218.2 | 217.3 | 214.5 | 211.3 | 208.9 | 207.7 | 206.1 | 206.1 | 208.1 | 211.3 | 212.1 |
| 27.5° | 243.9 | 243.1 | 239.1 | 235.5 | 232.2 | 229.4 | 228.6 | 229.8 | 233.4 | 238.3 | 238.3 |
| 30° | 272.5 | 270.9 | 267.3 | 261.6 | 256.4 | 253.6 | 254.4 | 256.4 | 261.6 | 267.3 | 266.9 |
| 32.5° | 303.9 | 301.1 | 297.0 | 290.6 | 283.0 | 278.9 | 280.1 | 285.8 | 291.0 | 297.0 | 297.8 |
| 35° | 337.3 | 336.9 | 330.4 | 322.0 | 312.3 | 305.9 | 308.3 | 316.0 | 324.0 | 332.5 | 333.7 |
| 37.5° | 371.5 | 372.7 | 365.1 | 355.8 | 341.7 | 334.1 | 339.3 | 350.2 | 360.2 | 369.5 | 370.3 |
| 40° | 413.4 | 412.2 | 404.5 | 390.8 | 373.9 | 365.5 | 369.9 | 385.2 | 398.1 | 409.7 | 410.5 |
| 42.5° | 456.4 | 453.2 | 446.8 | 430.3 | 407.7 | 400.1 | 406.5 | 423.8 | 441.1 | 450.8 | 451.2 |
| 45° | 497.1 | 498.3 | 491.0 | 471.3 | 446.4 | 434.7 | 444.0 | 464.5 | 484.6 | 495.1 | 496.3 |
| 47.5° | 548.2 | 545.0 | 538.5 | 513.2 | 485.0 | 473.3 | 483.8 | 508.8 | 530.9 | 540.5 | 540.1 |
| 50° | 598.1 | 596.1 | 586.8 | 560.3 | 528.5 | 514.4 | 524.9 | 555.4 | 579.6 | 588.0 | 590.1 |
| 52.5° | 645.6 | 644.8 | 636.7 | 607.4 | 573.2 | 555.8 | 570.3 | 602.1 | 629.9 | 638.4 | 639.2 |
| 55° | 694.3 | 691.9 | 685.8 | 655.3 | 616.2 | 596.9 | 615.0 | 650.4 | 679.0 | 687.1 | 687.5 |
| 57.5° | 737.8 | 739.4 | 734.6 | 702.4 | 657.3 | 638.8 | 658.9 | 698.3 | 727.3 | 735.0 | 736.2 |
| 60° | 781.2 | 781.6 | 778.0 | 746.6 | 698.7 | 677.8 | 701.1 | 742.2 | 773.2 | 780.0 | 780.4 |
| 62.5° | 815.5 | 816.3 | 813.4 | 779.2 | 731.3 | 711.2 | 737.0 | 779.6 | 811.4 | 816.3 | 815.9 |
| 65° | 836.4 | 838.8 | 837.2 | 806.2 | 755.1 | 736.6 | 763.5 | 808.2 | 837.2 | 840.0 | 838.8 |
| 67.5° | 838.8 | 841.6 | 844.0 | 815.9 | 767.2 | 747.4 | 776.0 | 818.7 | 846.0 | 847.2 | 843.6 |
| 70° | 821.1 | 823.9 | 829.5 | 806.2 | 761.1 | 744.6 | 772.0 | 810.2 | 833.2 | 831.6 | 827.5 |
| 72.5° | 775.6 | 781.6 | 790.1 | 774.4 | 736.6 | 722.9 | 749.8 | 780.4 | 796.1 | 790.1 | 784.5 |
| 75° | 710.4 | 716.4 | 732.5 | 723.7 | 694.7 | 687.1 | 707.2 | 730.1 | 734.6 | 725.7 | 718.0 |
| 77.5° | 631.1 | 638.8 | 653.7 | 660.5 | 641.2 | 633.5 | 650.4 | 662.5 | 657.7 | 638.4 | 632.7 |
| 80° | 538.5 | 550.6 | 566.3 | 577.2 | 572.3 | 569.9 | 578.4 | 577.2 | 559.5 | 544.2 | 534.5 |
| 82.5° | 454.0 | 456.4 | 480.6 | 494.3 | 495.9 | 496.7 | 499.1 | 484.6 | 464.1 | 443.5 | 434.7 |
| 85° | 371.1 | 371.9 | 392.0 | 411.8 | 419.4 | 421.8 | 417.4 | 398.1 | 376.7 | 353.8 | 347.8 |
| 87.5° | 297.4 | 298.7 | 316.4 | 336.5 | 349.8 | 351.4 | 342.9 | 324.0 | 297.4 | 276.9 | 271.7 |
| 90° | 235.1 | 239.1 | 256.8 | 273.3 | 287.4 | 289.8 | 277.7 | 257.6 | 233.0 | 213.3 | 210.1 |
| 92.5° | 188.0 | 190.0 | 206.1 | 221.4 | 234.7 | 235.1 | 226.6 | 206.1 | 184.3 | 166.6 | 162.6 |
| 95° | 150.9 | 152.5 | 165.4 | 179.5 | 190.4 | 192.8 | 183.1 | 165.0 | 144.9 | 129.6 | 128.8 |
| 97.5° | 120.3 | 122.4 | 132.4 | 147.3 | 155.4 | 157.0 | 150.5 | 133.6 | 115.1 | 101.4 | 101.4 |
| 100° | 96.6 | 97.8 | 106.7 | 119.1 | 127.6 | 129.2 | 122.8 | 107.9 | 91.8 | 79.7 | 78.9 |
| 102.5° | 78.5 | 79.3 | 86.5 | 97.8 | 105.5 | 107.1 | 101.4 | 89.4 | 73.7 | 64.0 | 63.6 |
| 105° | 64.4 | 64.8 | 70.4 | 80.9 | 88.1 | 89.4 | 84.1 | 73.7 | 59.6 | 51.5 | 51.1 |
| 107.5° | 52.7 | 53.1 | 57.6 | 67.2 | 74.1 | 75.3 | 70.8 | 60.4 | 48.3 | 42.7 | 41.9 |
| 110° | 44.3 | 44.7 | 47.9 | 55.5 | 62.4 | 64.0 | 59.6 | 50.3 | 39.8 | 35.0 | 35.0 |



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CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|--------|------|------|------|------|------|------|------|------|------|------|------|
| 112.5° | 37.4 | 37.8 | 40.2 | 46.7 | 52.7 | 54.7 | 50.3 | 41.9 | 33.4 | 29.8 | 29.4 |
| 115° | 31.8 | 32.2 | 33.8 | 39.4 | 44.3 | 45.9 | 42.7 | 35.0 | 28.2 | 25.4 | 25.4 |
| 117.5° | 27.8 | 28.2 | 29.0 | 33.4 | 37.8 | 39.0 | 35.8 | 29.4 | 23.7 | 22.1 | 22.1 |
| 120° | 24.6 | 24.6 | 25.0 | 28.2 | 31.8 | 33.0 | 30.2 | 25.0 | 20.5 | 19.3 | 19.3 |
| 122.5° | 21.3 | 21.3 | 21.7 | 24.1 | 27.0 | 27.8 | 25.4 | 20.9 | 17.7 | 17.3 | 16.9 |
| 125° | 18.9 | 18.9 | 18.9 | 20.5 | 22.9 | 23.3 | 21.3 | 17.7 | 15.7 | 15.3 | 15.3 |
| 127.5° | 16.5 | 16.5 | 16.5 | 17.3 | 18.9 | 19.3 | 17.7 | 14.9 | 13.7 | 13.3 | 13.3 |
| 130° | 14.5 | 14.5 | 14.5 | 14.9 | 15.7 | 16.1 | 14.5 | 12.9 | 12.1 | 12.1 | 12.1 |
| 132.5° | 12.9 | 12.9 | 12.5 | 12.5 | 12.9 | 12.9 | 12.1 | 10.9 | 10.5 | 10.5 | 10.5 |
| 135° | 11.3 | 11.3 | 10.9 | 10.5 | 10.5 | 10.1 | 9.3 | 8.9 | 9.3 | 9.3 | 9.3 |
| 137.5° | 9.7 | 9.7 | 9.3 | 8.9 | 8.5 | 8.0 | 7.6 | 7.2 | 7.6 | 8.0 | 8.0 |
| 140° | 8.0 | 8.0 | 7.6 | 6.8 | 6.4 | 6.0 | 5.6 | 6.0 | 6.4 | 6.8 | 6.8 |
| 142.5° | 6.4 | 6.4 | 6.4 | 5.6 | 4.8 | 4.4 | 4.4 | 4.8 | 5.2 | 5.6 | 5.6 |
| 145° | 5.2 | 5.2 | 4.8 | 4.4 | 3.6 | 3.2 | 3.2 | 3.6 | 4.4 | 4.4 | 4.4 |
| 147.5° | 4.0 | 4.0 | 3.6 | 3.2 | 2.4 | 2.0 | 2.4 | 2.8 | 3.2 | 3.6 | 3.6 |
| 150° | 2.8 | 2.8 | 2.8 | 2.4 | 1.6 | 1.6 | 1.6 | 2.0 | 2.4 | 2.4 | 2.4 |
| 152.5° | 1.6 | 1.6 | 1.6 | 1.6 | 1.2 | 0.8 | 1.2 | 1.6 | 1.6 | 1.6 | 1.6 |
| 155° | 1.2 | 1.2 | 1.2 | 1.2 | 0.8 | 0.8 | 0.8 | 1.2 | 1.2 | 1.2 | 1.2 |
| 157.5° | 0.4 | 0.4 | 0.4 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 |
| 160° | 0.0 | 0.0 | 0.4 | 0.4 | 0.8 | 0.8 | 0.8 | 0.8 | 0.4 | 0.4 | 0.4 |
| 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)