

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: P414240

Luminaire Tested: **LXF.LXT-PA1-20-740-U-5WQ-A**

Issue Date: 10/26/2020

Test Information

Test Method: LM-79-08
Report Number: P414240
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1907-433-6)
Test Lab: INNOVATION CENTER
Issue Date: 10/26/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: LXF.LXT-PA1-20-740-U-5WQ-A
Description: DECORATIVE POST TOP LUMINAIRE
(1) 70 CRI, 4000K, 260mA 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: 2765 lumens
Efficiency: N/A
Efficacy: 131.7 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: B2 - U3 - G2

Input Watts (W): 21
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

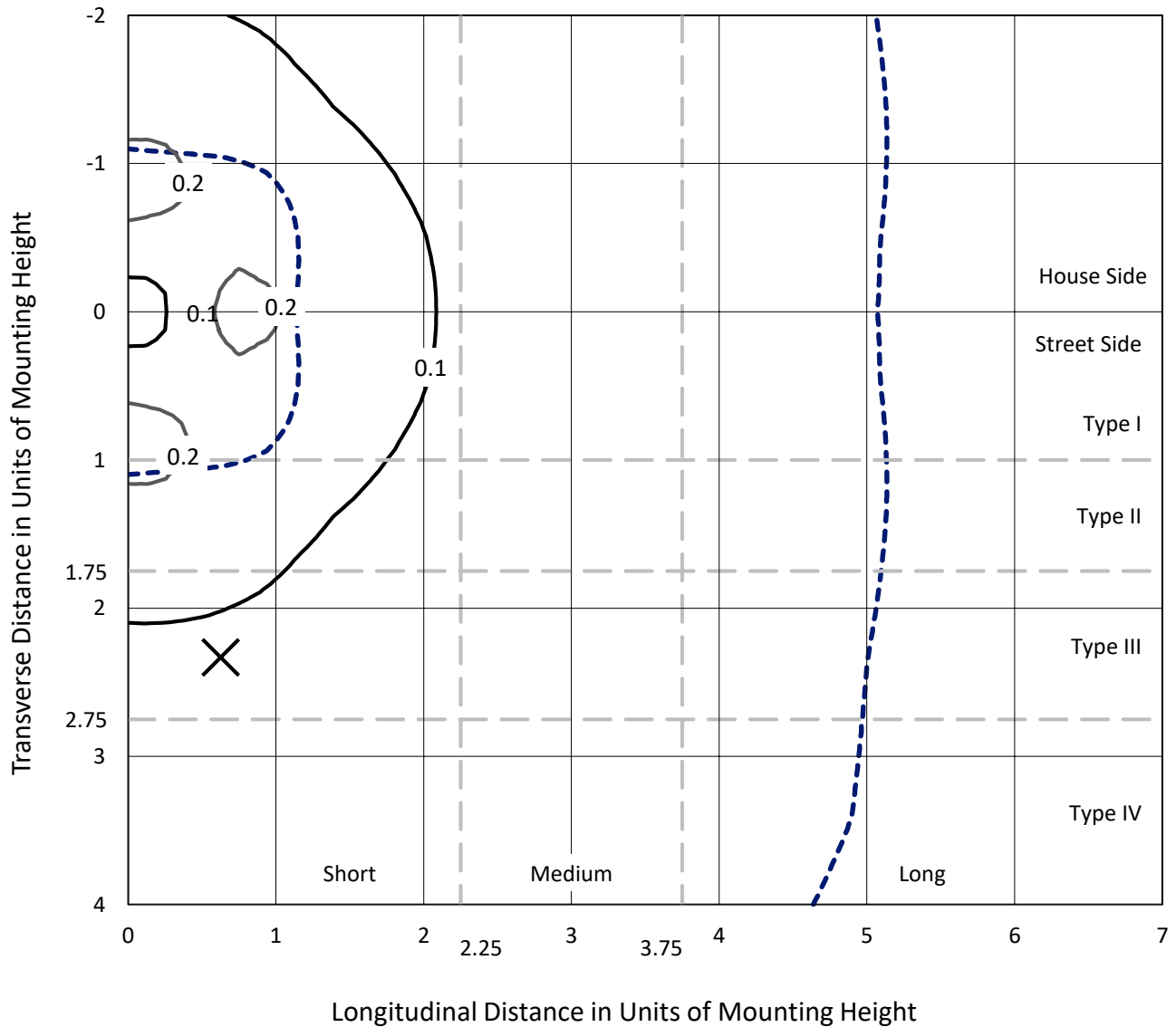


REPORT NUMBER: P414240

CATALOG NUMBER: LXF.LXT-PA1-20-740-U-5WQ-A

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

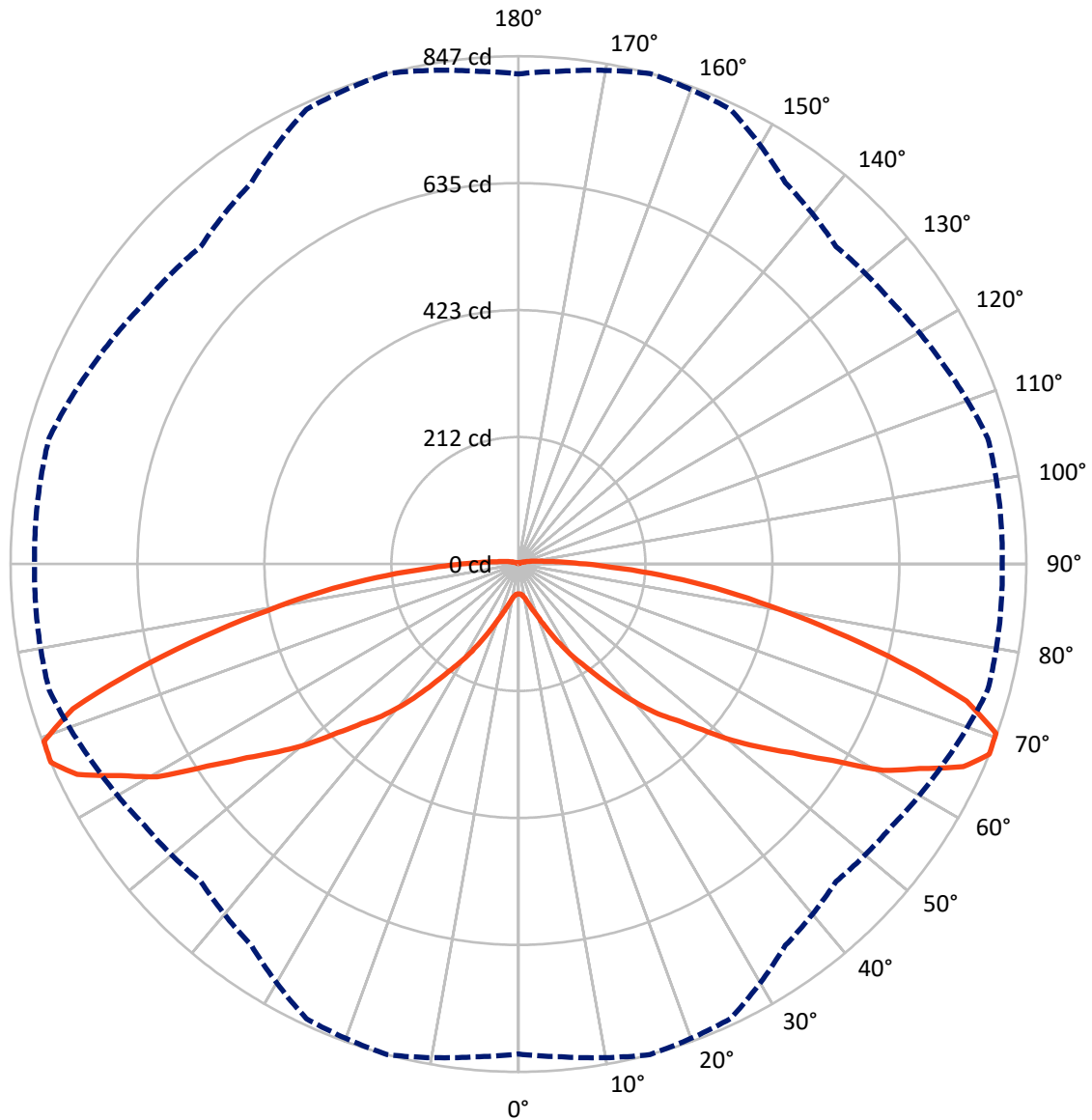


Based on 25 foot mounting height. Maximum calculated value = 0.2 fc
 Type V - Short - Non-Cutoff

REPORT NUMBER: P414240

CATALOG NUMBER: LXF.LXT-PA1-20-740-U-5WQ-A

Luminous Intensity Polar Plot



— Vertical Plane Through 15-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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CATALOG NUMBER: LXF.LXT-PA1-20-740-U-5WQ-A

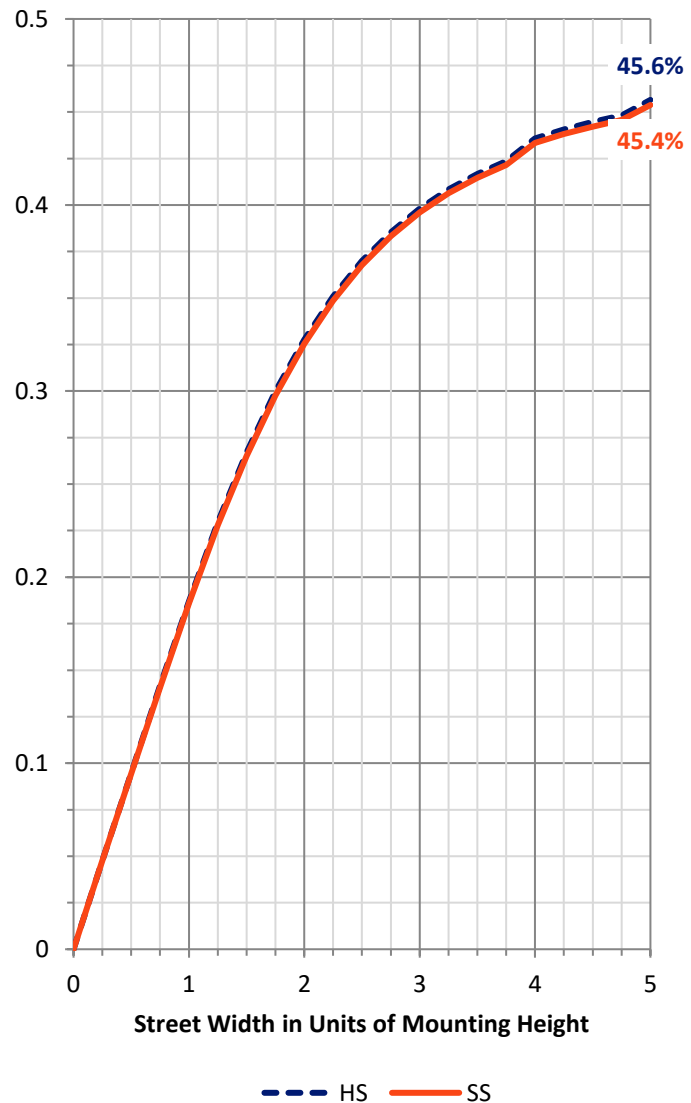
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1327.9 | 54.5 | 1382.5 |
| | % Fixture | 48.0 | 2.0 | 50.0 |
| Street Side | Lumens | 1327.9 | 54.5 | 1382.5 |
| | % Fixture | 48.0 | 2.0 | 50.0 |
| Total | Lumens | 2655.9 | 109.1 | 2765.0 |
| | % Fixture | 96.1 | 3.9 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 5.0 | 0.2 |
| 10°-20° | 20.6 | 0.7 |
| 20°-30° | 59.5 | 2.2 |
| 30°-40° | 140.2 | 5.1 |
| 40°-50° | 264.3 | 9.6 |
| 50°-60° | 471.3 | 17.0 |
| 60°-70° | 745.1 | 26.9 |
| 70°-80° | 656.5 | 23.7 |
| 80°-90° | 293.4 | 10.6 |
| 90°-100° | 72.9 | 2.6 |
| 100°-110° | 20.1 | 0.7 |
| 110°-120° | 8.0 | 0.3 |
| 120°-130° | 4.2 | 0.2 |
| 130°-140° | 2.5 | 0.1 |
| 140°-150° | 1.1 | 0.0 |
| 150°-160° | 0.3 | 0.0 |
| 160°-170° | 0.0 | 0.0 |
| 170°-180° | 0.0 | 0.0 |
| 0°-90° | 2655.9 | 96.1 |
| 0°-180° | 2765.0 | 100.0 |



REPORT NUMBER: P414240

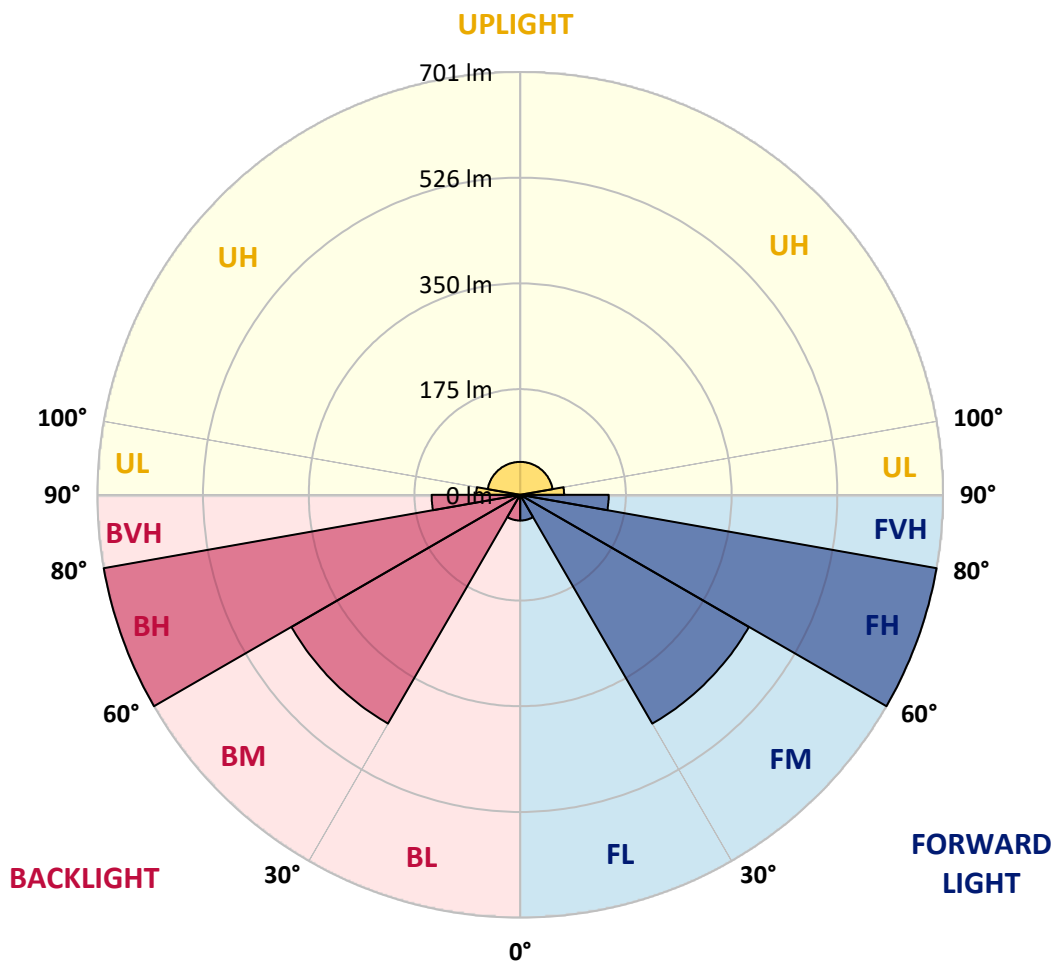
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|--------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 42.6 | 1.5 | | | |
| FM | (30°-60°) | 437.9 | 15.8 | | | |
| FH | (60°-80°) | 700.8 | 25.3 | | | G1/1800 |
| FVH | (80°-90°) | 146.7 | 5.3 | | | G2/225 |
| BL | (0°-30°) | 42.6 | 1.5 | B0/110 | | |
| BM | (30°-60°) | 437.9 | 15.8 | B1/1000 | | |
| BH | (60°-80°) | 700.8 | 25.3 | B2/1000 | | G1/1800 |
| BVH | (80°-90°) | 146.7 | 5.3 | | | G2/225 |
| UL | (90°-100°) | 72.9 | 2.6 | | U3/500 | |
| UH | (100°-180°) | 54.5 | 2.0 | | U3/500 | |

BUG Rating: B2-U3-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 49.7 | 49.7 | 49.7 | 49.7 | 49.7 | 49.7 | 49.7 | 49.7 | 49.7 | 49.7 | 49.7 |
| 2.5° | 49.7 | 49.7 | 50.0 | 50.0 | 50.3 | 50.6 | 50.3 | 50.0 | 49.7 | 49.4 | 49.4 |
| 5° | 51.2 | 51.2 | 51.2 | 51.2 | 51.5 | 51.5 | 51.2 | 50.6 | 50.3 | 50.0 | 50.0 |
| 7.5° | 53.6 | 53.6 | 53.6 | 53.6 | 53.6 | 53.3 | 52.7 | 52.1 | 51.8 | 51.5 | 51.5 |
| 10° | 57.6 | 57.6 | 57.0 | 57.0 | 56.7 | 56.4 | 55.8 | 55.2 | 54.5 | 54.9 | 54.9 |
| 12.5° | 64.2 | 64.5 | 63.6 | 62.1 | 60.9 | 60.3 | 60.0 | 60.0 | 60.9 | 60.9 | 61.2 |
| 15° | 73.8 | 73.8 | 72.3 | 70.2 | 67.8 | 66.0 | 66.6 | 68.1 | 69.6 | 70.5 | 70.5 |
| 17.5° | 84.4 | 84.4 | 82.9 | 80.2 | 76.9 | 75.9 | 75.6 | 77.2 | 80.5 | 81.7 | 82.0 |
| 20° | 97.6 | 97.6 | 94.9 | 91.0 | 88.0 | 86.8 | 86.8 | 89.2 | 92.8 | 95.5 | 95.2 |
| 22.5° | 115.7 | 115.4 | 111.5 | 104.9 | 101.0 | 99.2 | 98.9 | 102.2 | 108.5 | 112.7 | 113.9 |
| 25° | 137.4 | 137.1 | 132.0 | 123.3 | 117.2 | 112.4 | 113.6 | 119.3 | 129.0 | 135.6 | 135.6 |
| 27.5° | 162.1 | 160.9 | 154.3 | 144.7 | 135.6 | 129.3 | 131.1 | 139.2 | 151.3 | 160.3 | 160.6 |
| 30° | 186.2 | 186.2 | 179.0 | 167.6 | 155.5 | 147.7 | 149.8 | 161.2 | 175.7 | 189.9 | 190.2 |
| 32.5° | 211.9 | 211.6 | 202.5 | 191.1 | 176.3 | 167.6 | 170.9 | 185.0 | 205.5 | 221.8 | 224.8 |
| 35° | 244.7 | 245.0 | 232.4 | 216.7 | 198.0 | 188.4 | 192.9 | 211.3 | 235.7 | 255.3 | 257.1 |
| 37.5° | 280.0 | 281.8 | 267.9 | 247.7 | 222.7 | 211.0 | 217.6 | 239.0 | 267.3 | 287.8 | 287.8 |
| 40° | 318.0 | 318.9 | 306.2 | 280.6 | 250.4 | 235.1 | 243.8 | 266.7 | 288.4 | 305.9 | 306.8 |
| 42.5° | 350.2 | 351.1 | 341.2 | 316.1 | 282.4 | 264.0 | 269.1 | 286.6 | 307.1 | 326.7 | 328.5 |
| 45° | 375.5 | 378.5 | 372.5 | 351.1 | 316.7 | 294.4 | 293.8 | 311.6 | 336.3 | 356.8 | 359.2 |
| 47.5° | 421.3 | 422.8 | 412.3 | 387.0 | 352.0 | 327.6 | 325.2 | 343.0 | 375.2 | 397.2 | 398.7 |
| 50° | 461.7 | 466.2 | 462.3 | 435.2 | 393.6 | 364.1 | 364.4 | 387.9 | 422.8 | 445.1 | 447.2 |
| 52.5° | 507.2 | 509.3 | 508.1 | 484.9 | 444.5 | 409.6 | 413.5 | 440.0 | 477.7 | 491.5 | 494.0 |
| 55° | 548.8 | 552.1 | 556.3 | 539.2 | 499.1 | 468.3 | 472.0 | 500.3 | 525.6 | 538.9 | 540.1 |
| 57.5° | 614.8 | 618.1 | 617.8 | 592.5 | 558.1 | 528.3 | 534.3 | 556.6 | 589.8 | 612.4 | 616.3 |
| 60° | 686.5 | 691.4 | 698.9 | 666.0 | 614.5 | 593.7 | 601.2 | 633.5 | 671.2 | 674.5 | 678.7 |
| 62.5° | 734.4 | 736.9 | 751.0 | 740.2 | 680.2 | 655.2 | 675.1 | 702.5 | 722.1 | 725.1 | 723.9 |
| 65° | 797.1 | 805.0 | 814.9 | 789.9 | 741.7 | 707.3 | 730.2 | 750.7 | 786.0 | 789.0 | 788.4 |
| 67.5° | 817.0 | 824.6 | 846.6 | 836.3 | 776.0 | 748.6 | 760.4 | 783.0 | 810.1 | 807.7 | 806.5 |
| 70° | 818.5 | 825.8 | 844.5 | 839.0 | 783.9 | 745.9 | 758.0 | 766.7 | 791.7 | 792.0 | 788.7 |
| 72.5° | 736.6 | 749.2 | 781.2 | 790.8 | 742.6 | 703.7 | 704.6 | 704.3 | 706.1 | 686.2 | 678.4 |
| 75° | 620.5 | 629.6 | 660.9 | 684.1 | 659.4 | 626.0 | 625.4 | 600.0 | 594.6 | 579.5 | 574.1 |
| 77.5° | 497.0 | 508.1 | 538.3 | 563.6 | 554.8 | 536.7 | 527.4 | 498.8 | 490.9 | 473.8 | 475.9 |
| 80° | 386.4 | 395.1 | 424.9 | 457.8 | 460.2 | 447.5 | 437.3 | 413.8 | 398.4 | 384.0 | 377.6 |
| 82.5° | 297.5 | 305.0 | 330.6 | 366.2 | 380.9 | 379.4 | 365.0 | 338.4 | 324.6 | 310.7 | 302.6 |
| 85° | 205.5 | 212.2 | 237.5 | 280.6 | 307.1 | 316.4 | 300.2 | 266.7 | 242.0 | 222.4 | 217.9 |
| 87.5° | 132.6 | 135.6 | 155.8 | 193.2 | 233.0 | 255.0 | 237.8 | 195.9 | 164.9 | 149.2 | 144.1 |
| 90° | 82.9 | 87.4 | 101.9 | 125.1 | 163.9 | 192.0 | 174.5 | 132.0 | 109.7 | 93.7 | 90.4 |
| 92.5° | 57.6 | 57.0 | 66.9 | 83.2 | 111.8 | 134.7 | 119.6 | 87.4 | 69.3 | 58.8 | 56.7 |
| 95° | 38.0 | 39.5 | 44.9 | 55.2 | 75.6 | 89.8 | 79.0 | 58.2 | 45.5 | 38.0 | 37.1 |
| 97.5° | 28.3 | 28.6 | 32.8 | 39.2 | 51.5 | 59.1 | 52.4 | 40.4 | 32.2 | 27.4 | 27.1 |
| 100° | 22.3 | 22.6 | 25.6 | 29.2 | 36.2 | 41.0 | 36.8 | 30.4 | 25.0 | 21.4 | 21.4 |
| 102.5° | 17.5 | 17.8 | 19.9 | 22.9 | 27.4 | 30.4 | 28.0 | 23.5 | 19.6 | 16.9 | 16.6 |
| 105° | 13.9 | 13.9 | 15.7 | 18.1 | 21.4 | 23.5 | 22.0 | 18.4 | 15.1 | 13.3 | 13.3 |
| 107.5° | 10.8 | 11.2 | 12.4 | 14.2 | 17.2 | 19.3 | 17.5 | 14.2 | 11.8 | 10.2 | 10.2 |
| 110° | 8.7 | 8.7 | 9.6 | 11.5 | 13.9 | 15.7 | 14.2 | 11.5 | 9.3 | 8.4 | 8.4 |



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CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|--------|-----|-----|-----|-----|------|------|------|-----|-----|-----|-----|
| 112.5° | 7.2 | 7.2 | 7.8 | 9.3 | 11.5 | 13.0 | 11.5 | 9.3 | 7.5 | 6.9 | 6.9 |
| 115° | 6.0 | 6.0 | 6.6 | 7.5 | 9.6 | 10.5 | 9.6 | 7.5 | 6.3 | 5.7 | 5.7 |
| 117.5° | 5.4 | 5.4 | 5.7 | 6.6 | 8.1 | 8.7 | 8.1 | 6.3 | 5.4 | 5.1 | 5.1 |
| 120° | 4.8 | 4.8 | 5.1 | 5.7 | 6.9 | 7.5 | 6.9 | 5.7 | 4.8 | 4.5 | 4.5 |
| 122.5° | 4.5 | 4.5 | 4.5 | 5.1 | 6.3 | 6.6 | 6.0 | 5.1 | 4.2 | 4.2 | 4.2 |
| 125° | 4.2 | 4.2 | 4.2 | 4.5 | 5.4 | 5.7 | 5.4 | 4.5 | 3.9 | 3.9 | 3.9 |
| 127.5° | 3.9 | 3.9 | 3.9 | 4.2 | 4.8 | 5.1 | 4.8 | 4.2 | 3.6 | 3.6 | 3.6 |
| 130° | 3.9 | 3.9 | 3.6 | 3.9 | 4.2 | 4.5 | 4.2 | 3.9 | 3.6 | 3.3 | 3.6 |
| 132.5° | 3.6 | 3.6 | 3.6 | 3.6 | 3.9 | 3.9 | 3.9 | 3.6 | 3.3 | 3.3 | 3.3 |
| 135° | 3.3 | 3.3 | 3.0 | 3.0 | 3.3 | 3.6 | 3.3 | 3.0 | 3.0 | 3.0 | 3.0 |
| 137.5° | 3.0 | 2.7 | 2.7 | 2.7 | 3.0 | 3.0 | 3.0 | 2.7 | 2.7 | 2.7 | 2.7 |
| 140° | 2.4 | 2.4 | 2.4 | 2.4 | 2.4 | 2.7 | 2.4 | 2.1 | 2.1 | 2.4 | 2.4 |
| 142.5° | 2.1 | 2.1 | 2.1 | 1.8 | 2.1 | 2.1 | 2.1 | 1.8 | 1.8 | 1.8 | 1.8 |
| 145° | 1.8 | 1.8 | 1.8 | 1.5 | 1.8 | 1.8 | 1.8 | 1.5 | 1.5 | 1.5 | 1.5 |
| 147.5° | 1.2 | 1.5 | 1.2 | 1.2 | 1.5 | 1.5 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 |
| 150° | 0.9 | 0.9 | 0.9 | 0.9 | 1.2 | 1.2 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 |
| 152.5° | 0.6 | 0.6 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.6 | 0.6 | 0.6 |
| 155° | 0.6 | 0.6 | 0.6 | 0.6 | 0.9 | 0.9 | 0.6 | 0.6 | 0.6 | 0.3 | 0.3 |
| 157.5° | 0.3 | 0.3 | 0.3 | 0.3 | 0.6 | 0.9 | 0.6 | 0.3 | 0.3 | 0.3 | 0.3 |
| 160° | 0.0 | 0.0 | 0.0 | 0.3 | 0.6 | 0.9 | 0.6 | 0.3 | 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)