

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: P414242

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

Issue Date: 10/26/2020

Test Information

Test Method: LM-79-08
Report Number: P414242
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-PA1-20-740-U-5WQ-FL
Description: DECORATIVE POST TOP LUMINAIRE
(1) 70 CRI, 4000K, 260mA 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: 2703 lumens
Efficiency: N/A
Efficacy: 128.7 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): 21
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

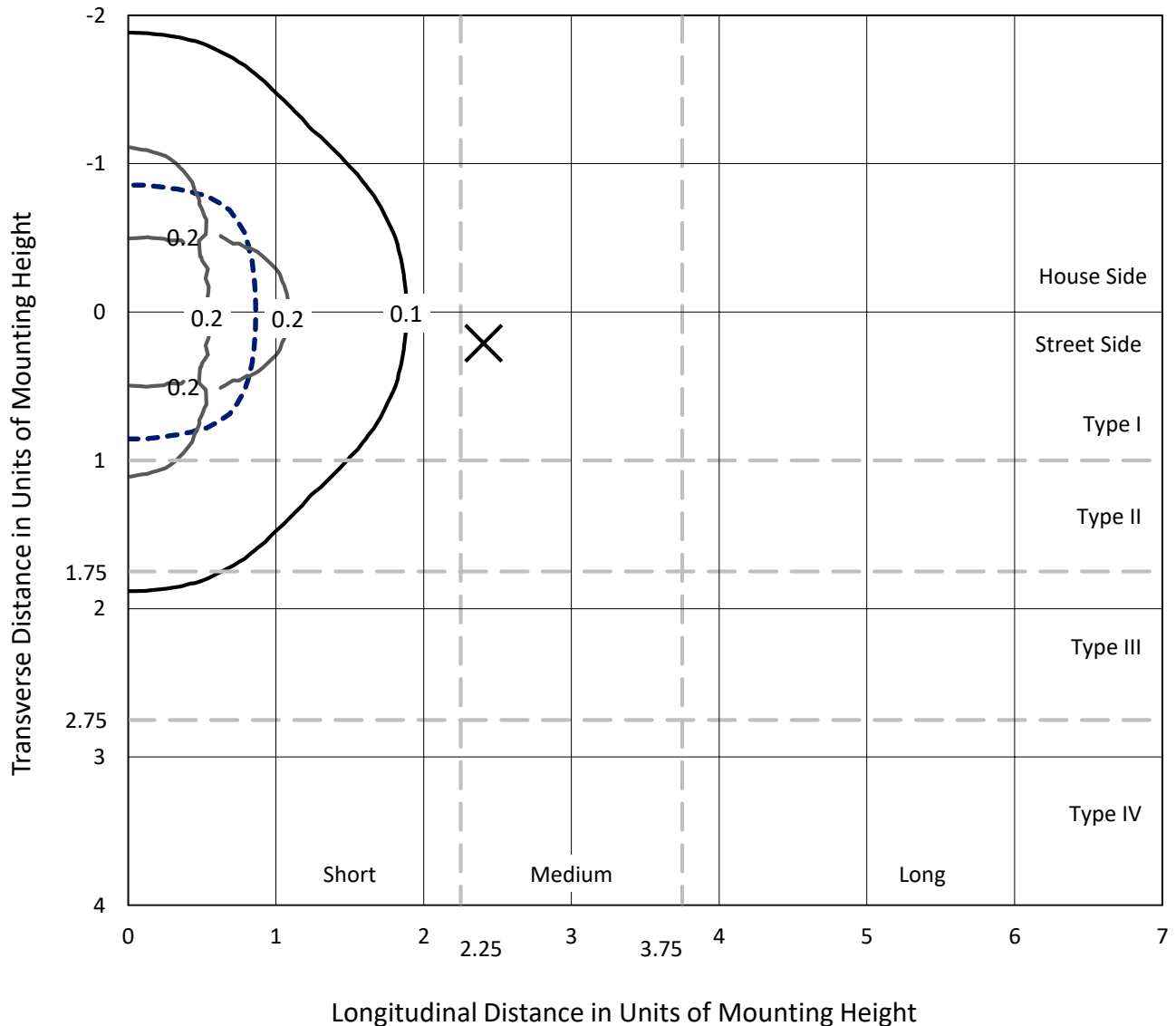


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Iso-Footcandle Lines of Horizontal Illumination

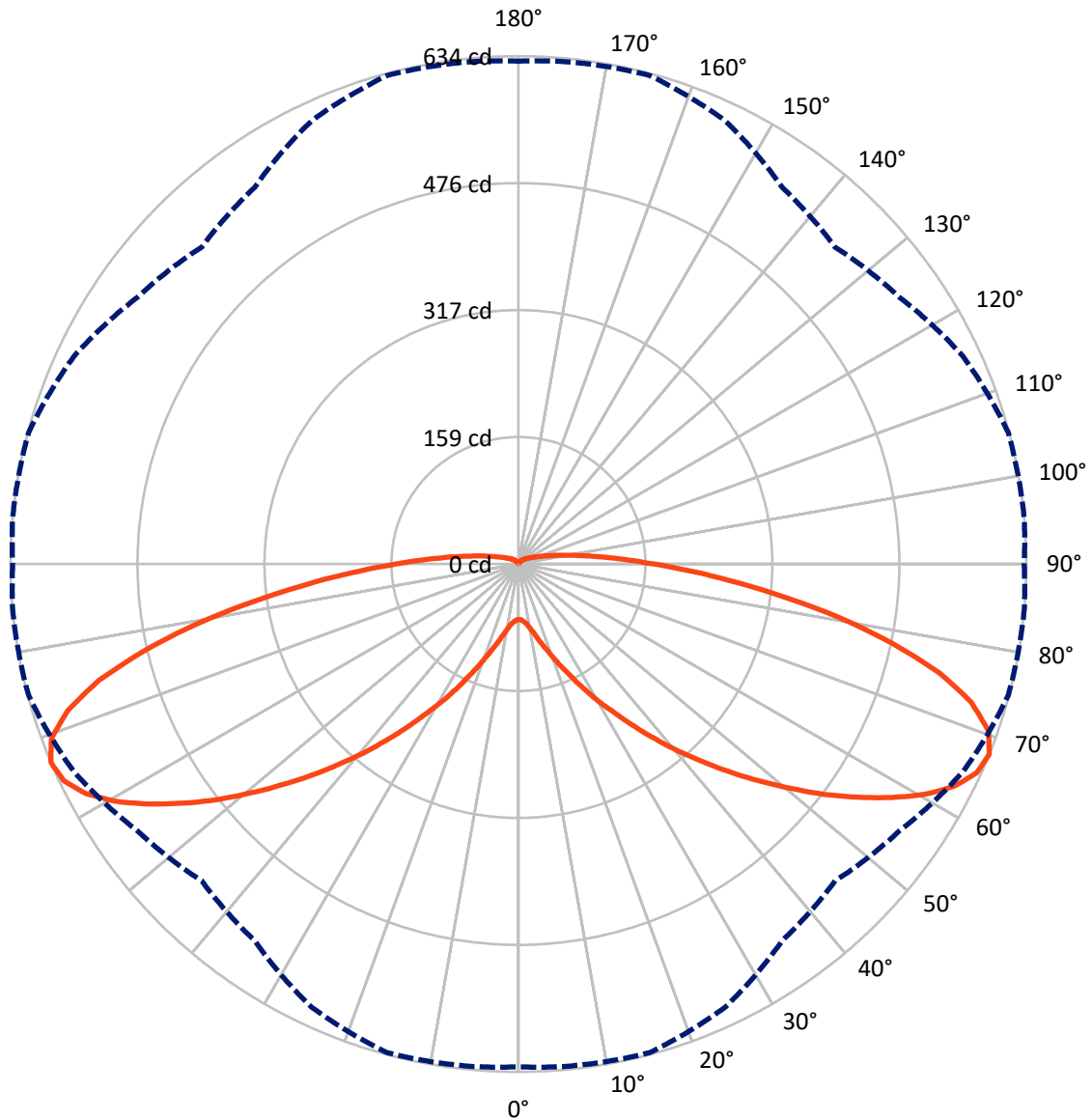
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.2 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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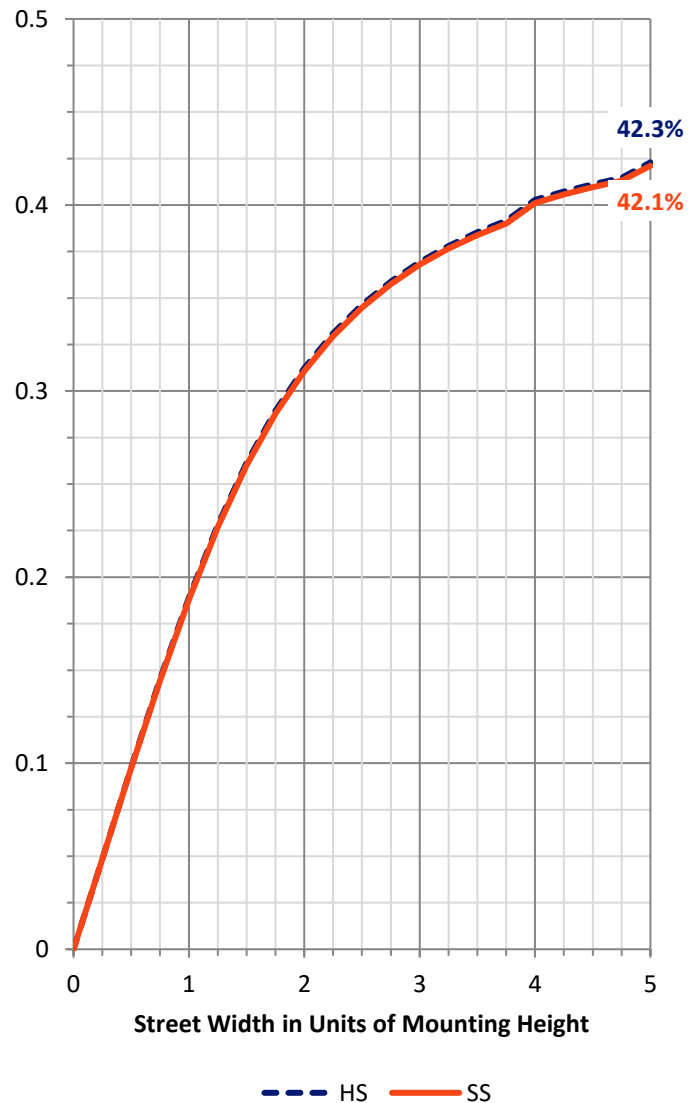
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1225.7 | 125.8 | 1351.5 |
| | % Fixture | 45.3 | 4.7 | 50.0 |
| Street Side | Lumens | 1225.7 | 125.8 | 1351.5 |
| | % Fixture | 45.3 | 4.7 | 50.0 |
| Total | Lumens | 2451.4 | 251.6 | 2703.0 |
| | % Fixture | 90.7 | 9.3 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 7.2 | 0.3 |
| 10°-20° | 29.4 | 1.1 |
| 20°-30° | 74.3 | 2.7 |
| 30°-40° | 152.9 | 5.7 |
| 40°-50° | 274.9 | 10.2 |
| 50°-60° | 439.4 | 16.3 |
| 60°-70° | 588.0 | 21.8 |
| 70°-80° | 557.1 | 20.6 |
| 80°-90° | 328.1 | 12.1 |
| 90°-100° | 141.8 | 5.2 |
| 100°-110° | 60.4 | 2.2 |
| 110°-120° | 27.8 | 1.0 |
| 120°-130° | 13.3 | 0.5 |
| 130°-140° | 5.9 | 0.2 |
| 140°-150° | 2.0 | 0.1 |
| 150°-160° | 0.4 | 0.0 |
| 160°-170° | 0.0 | 0.0 |
| 170°-180° | 0.0 | 0.0 |
| 0°-90° | 2451.4 | 90.7 |
| 0°-180° | 2703.0 | 100.0 |



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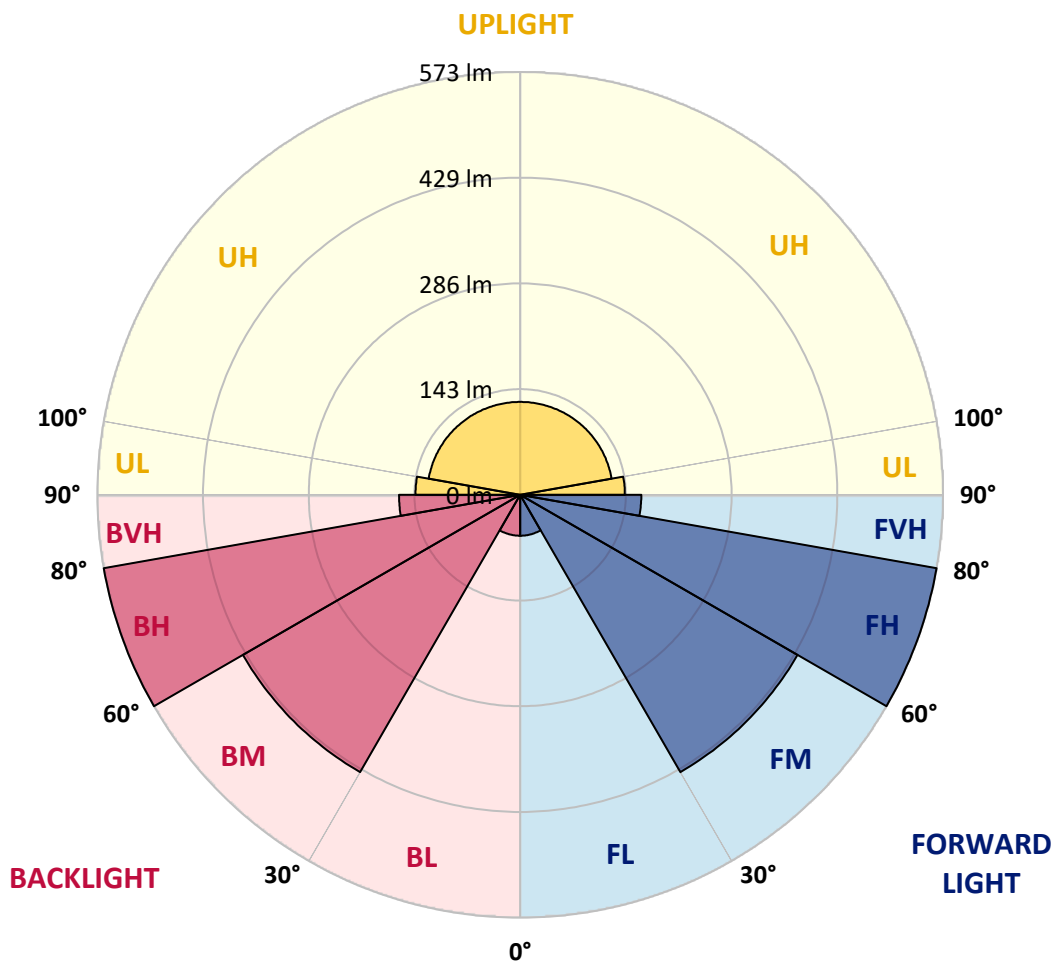
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|--------|--------|
| | | | | B | U | G |
| FL | (0°-30°) | 55.4 | 2.1 | | | |
| FM | (30°-60°) | 433.6 | 16.0 | | | |
| FH | (60°-80°) | 572.5 | 21.2 | | | G0/660 |
| FVH | (80°-90°) | 164.1 | 6.1 | | | G2/225 |
| BL | (0°-30°) | 55.4 | 2.1 | B0/110 | | |
| BM | (30°-60°) | 433.6 | 16.0 | B1/1000 | | |
| BH | (60°-80°) | 572.5 | 21.2 | B2/1000 | | G0/660 |
| BVH | (80°-90°) | 164.1 | 6.1 | | | G2/225 |
| UL | (90°-100°) | 141.8 | 5.2 | | U3/500 | |
| UH | (100°-180°) | 125.8 | 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° | 69.3 | 69.3 | 69.3 | 69.3 | 69.3 | 69.3 | 69.3 | 69.3 | 69.3 | 69.3 | 69.3 |
| 2.5° | 69.9 | 69.6 | 69.9 | 69.9 | 70.2 | 70.2 | 70.2 | 70.2 | 69.9 | 69.9 | 69.9 |
| 5° | 72.3 | 72.3 | 72.3 | 72.3 | 72.6 | 72.6 | 72.6 | 72.3 | 72.3 | 72.3 | 72.3 |
| 7.5° | 76.8 | 76.5 | 76.8 | 76.5 | 76.5 | 76.2 | 76.5 | 76.2 | 75.9 | 75.9 | 75.9 |
| 10° | 82.6 | 82.6 | 82.6 | 82.3 | 82.3 | 82.3 | 81.7 | 81.7 | 81.7 | 82.0 | 81.7 |
| 12.5° | 91.9 | 91.3 | 91.3 | 90.1 | 89.5 | 89.2 | 88.9 | 88.9 | 89.8 | 89.8 | 89.2 |
| 15° | 102.8 | 102.5 | 102.5 | 101.0 | 99.8 | 97.9 | 98.2 | 99.5 | 99.5 | 100.1 | 99.8 |
| 17.5° | 115.7 | 115.4 | 114.5 | 113.0 | 111.5 | 110.3 | 109.7 | 110.3 | 110.9 | 111.2 | 111.5 |
| 20° | 129.9 | 129.6 | 128.4 | 126.9 | 125.4 | 124.8 | 122.7 | 123.6 | 124.2 | 124.8 | 124.5 |
| 22.5° | 145.0 | 145.0 | 143.8 | 141.6 | 140.1 | 138.9 | 138.0 | 137.1 | 139.2 | 140.4 | 140.7 |
| 25° | 163.3 | 162.7 | 160.6 | 158.2 | 156.4 | 155.5 | 154.3 | 154.3 | 155.8 | 158.2 | 158.8 |
| 27.5° | 182.6 | 182.0 | 179.0 | 176.3 | 173.9 | 171.8 | 171.2 | 172.1 | 174.8 | 178.4 | 178.4 |
| 30° | 204.0 | 202.8 | 200.1 | 195.9 | 192.0 | 189.9 | 190.5 | 192.0 | 195.9 | 200.1 | 199.8 |
| 32.5° | 227.5 | 225.4 | 222.4 | 217.6 | 211.9 | 208.8 | 209.8 | 214.0 | 217.9 | 222.4 | 223.0 |
| 35° | 252.5 | 252.2 | 247.4 | 241.1 | 233.9 | 229.0 | 230.8 | 236.6 | 242.6 | 248.9 | 249.8 |
| 37.5° | 278.2 | 279.1 | 273.3 | 266.4 | 255.9 | 250.1 | 254.1 | 262.2 | 269.7 | 276.7 | 277.3 |
| 40° | 309.5 | 308.6 | 302.9 | 292.6 | 280.0 | 273.6 | 277.0 | 288.4 | 298.1 | 306.8 | 307.4 |
| 42.5° | 341.8 | 339.3 | 334.5 | 322.2 | 305.3 | 299.6 | 304.4 | 317.3 | 330.3 | 337.5 | 337.8 |
| 45° | 372.2 | 373.1 | 367.7 | 352.9 | 334.2 | 325.5 | 332.4 | 347.8 | 362.8 | 370.7 | 371.6 |
| 47.5° | 410.5 | 408.1 | 403.2 | 384.2 | 363.1 | 354.4 | 362.2 | 380.9 | 397.5 | 404.7 | 404.4 |
| 50° | 447.8 | 446.3 | 439.4 | 419.5 | 395.7 | 385.1 | 393.0 | 415.9 | 434.0 | 440.3 | 441.8 |
| 52.5° | 483.4 | 482.8 | 476.8 | 454.8 | 429.1 | 416.2 | 427.0 | 450.8 | 471.6 | 478.0 | 478.6 |
| 55° | 519.9 | 518.1 | 513.5 | 490.6 | 461.4 | 446.9 | 460.5 | 487.0 | 508.4 | 514.4 | 514.7 |
| 57.5° | 552.4 | 553.6 | 550.0 | 525.9 | 492.1 | 478.3 | 493.3 | 522.9 | 544.6 | 550.3 | 551.2 |
| 60° | 585.0 | 585.3 | 582.5 | 559.0 | 523.2 | 507.5 | 525.0 | 555.7 | 578.9 | 584.1 | 584.4 |
| 62.5° | 610.6 | 611.2 | 609.1 | 583.4 | 547.6 | 532.5 | 551.8 | 583.8 | 607.6 | 611.2 | 610.9 |
| 65° | 626.2 | 628.1 | 626.8 | 603.6 | 565.4 | 551.5 | 571.7 | 605.1 | 626.8 | 629.0 | 628.1 |
| 67.5° | 628.1 | 630.2 | 632.0 | 610.9 | 574.4 | 559.6 | 581.0 | 613.0 | 633.5 | 634.4 | 631.7 |
| 70° | 614.8 | 616.9 | 621.1 | 603.6 | 569.9 | 557.5 | 578.0 | 606.7 | 623.8 | 622.6 | 619.6 |
| 72.5° | 580.7 | 585.3 | 591.6 | 579.8 | 551.5 | 541.3 | 561.4 | 584.4 | 596.1 | 591.6 | 587.4 |
| 75° | 531.9 | 536.4 | 548.5 | 541.9 | 520.2 | 514.4 | 529.5 | 546.7 | 550.0 | 543.4 | 537.6 |
| 77.5° | 472.5 | 478.3 | 489.4 | 494.5 | 480.1 | 474.4 | 487.0 | 496.1 | 492.4 | 478.0 | 473.8 |
| 80° | 403.2 | 412.3 | 424.0 | 432.2 | 428.5 | 426.7 | 433.1 | 432.2 | 418.9 | 407.5 | 400.2 |
| 82.5° | 339.9 | 341.8 | 359.8 | 370.1 | 371.3 | 371.9 | 373.7 | 362.8 | 347.5 | 332.1 | 325.5 |
| 85° | 277.9 | 278.5 | 293.5 | 308.3 | 314.0 | 315.8 | 312.5 | 298.1 | 282.1 | 264.9 | 260.4 |
| 87.5° | 222.7 | 223.6 | 236.9 | 251.9 | 261.9 | 263.1 | 256.8 | 242.6 | 222.7 | 207.3 | 203.4 |
| 90° | 176.0 | 179.0 | 192.3 | 204.6 | 215.2 | 217.0 | 207.9 | 192.9 | 174.5 | 159.7 | 157.3 |
| 92.5° | 140.7 | 142.2 | 154.3 | 165.8 | 175.7 | 176.0 | 169.7 | 154.3 | 138.0 | 124.8 | 121.8 |
| 95° | 113.0 | 114.2 | 123.9 | 134.4 | 142.5 | 144.4 | 137.1 | 123.6 | 108.5 | 97.0 | 96.4 |
| 97.5° | 90.1 | 91.6 | 99.2 | 110.3 | 116.3 | 117.5 | 112.7 | 100.1 | 86.2 | 75.9 | 75.9 |
| 100° | 72.3 | 73.2 | 79.9 | 89.2 | 95.5 | 96.7 | 91.9 | 80.8 | 68.7 | 59.7 | 59.1 |
| 102.5° | 58.8 | 59.4 | 64.8 | 73.2 | 79.0 | 80.2 | 75.9 | 66.9 | 55.2 | 47.9 | 47.6 |
| 105° | 48.2 | 48.5 | 52.7 | 60.6 | 66.0 | 66.9 | 63.0 | 55.2 | 44.6 | 38.6 | 38.3 |
| 107.5° | 39.5 | 39.8 | 43.1 | 50.3 | 55.5 | 56.4 | 53.0 | 45.2 | 36.2 | 31.9 | 31.3 |
| 110° | 33.2 | 33.5 | 35.9 | 41.6 | 46.7 | 47.9 | 44.6 | 37.7 | 29.8 | 26.2 | 26.2 |



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CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|--------|------|------|------|------|------|------|------|------|------|------|------|
| 112.5° | 28.0 | 28.3 | 30.1 | 35.0 | 39.5 | 41.0 | 37.7 | 31.3 | 25.0 | 22.3 | 22.0 |
| 115° | 23.8 | 24.1 | 25.3 | 29.5 | 33.2 | 34.4 | 31.9 | 26.2 | 21.1 | 19.0 | 19.0 |
| 117.5° | 20.8 | 21.1 | 21.7 | 25.0 | 28.3 | 29.2 | 26.8 | 22.0 | 17.8 | 16.6 | 16.6 |
| 120° | 18.4 | 18.4 | 18.7 | 21.1 | 23.8 | 24.7 | 22.6 | 18.7 | 15.4 | 14.5 | 14.5 |
| 122.5° | 16.0 | 16.0 | 16.3 | 18.1 | 20.2 | 20.8 | 19.0 | 15.7 | 13.3 | 13.0 | 12.7 |
| 125° | 14.2 | 14.2 | 14.2 | 15.4 | 17.2 | 17.5 | 16.0 | 13.3 | 11.8 | 11.5 | 11.5 |
| 127.5° | 12.4 | 12.4 | 12.4 | 13.0 | 14.2 | 14.5 | 13.3 | 11.2 | 10.2 | 9.9 | 9.9 |
| 130° | 10.8 | 10.8 | 10.8 | 11.2 | 11.8 | 12.1 | 10.8 | 9.6 | 9.0 | 9.0 | 9.0 |
| 132.5° | 9.6 | 9.6 | 9.3 | 9.3 | 9.6 | 9.6 | 9.0 | 8.1 | 7.8 | 7.8 | 7.8 |
| 135° | 8.4 | 8.4 | 8.1 | 7.8 | 7.8 | 7.5 | 6.9 | 6.6 | 6.9 | 6.9 | 6.9 |
| 137.5° | 7.2 | 7.2 | 6.9 | 6.6 | 6.3 | 6.0 | 5.7 | 5.4 | 5.7 | 6.0 | 6.0 |
| 140° | 6.0 | 6.0 | 5.7 | 5.1 | 4.8 | 4.5 | 4.2 | 4.5 | 4.8 | 5.1 | 5.1 |
| 142.5° | 4.8 | 4.8 | 4.8 | 4.2 | 3.6 | 3.3 | 3.3 | 3.6 | 3.9 | 4.2 | 4.2 |
| 145° | 3.9 | 3.9 | 3.6 | 3.3 | 2.7 | 2.4 | 2.4 | 2.7 | 3.3 | 3.3 | 3.3 |
| 147.5° | 3.0 | 3.0 | 2.7 | 2.4 | 1.8 | 1.5 | 1.8 | 2.1 | 2.4 | 2.7 | 2.7 |
| 150° | 2.1 | 2.1 | 2.1 | 1.8 | 1.2 | 1.2 | 1.2 | 1.5 | 1.8 | 1.8 | 1.8 |
| 152.5° | 1.2 | 1.2 | 1.2 | 1.2 | 0.9 | 0.6 | 0.9 | 1.2 | 1.2 | 1.2 | 1.2 |
| 155° | 0.9 | 0.9 | 0.9 | 0.9 | 0.6 | 0.6 | 0.6 | 0.9 | 0.9 | 0.9 | 0.9 |
| 157.5° | 0.3 | 0.3 | 0.3 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 |
| 160° | 0.0 | 0.0 | 0.3 | 0.3 | 0.6 | 0.6 | 0.6 | 0.6 | 0.3 | 0.3 | 0.3 |
| 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)