

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: P413980

Luminaire Tested: **LXF.LXT-PA1-100-827-U-5WQ-A**

Issue Date: 10/26/2020

Test Information

Test Method: LM-79-08
Report Number: P413980
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-PA1-100-827-U-5WQ-A
Description: DECORATIVE POST TOP LUMINAIRE
(1) 80 CRI, 2700K, 1200mA 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: 7364 lumens
Efficiency: N/A
Efficacy: 76.7 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: B3 - U3 - G3

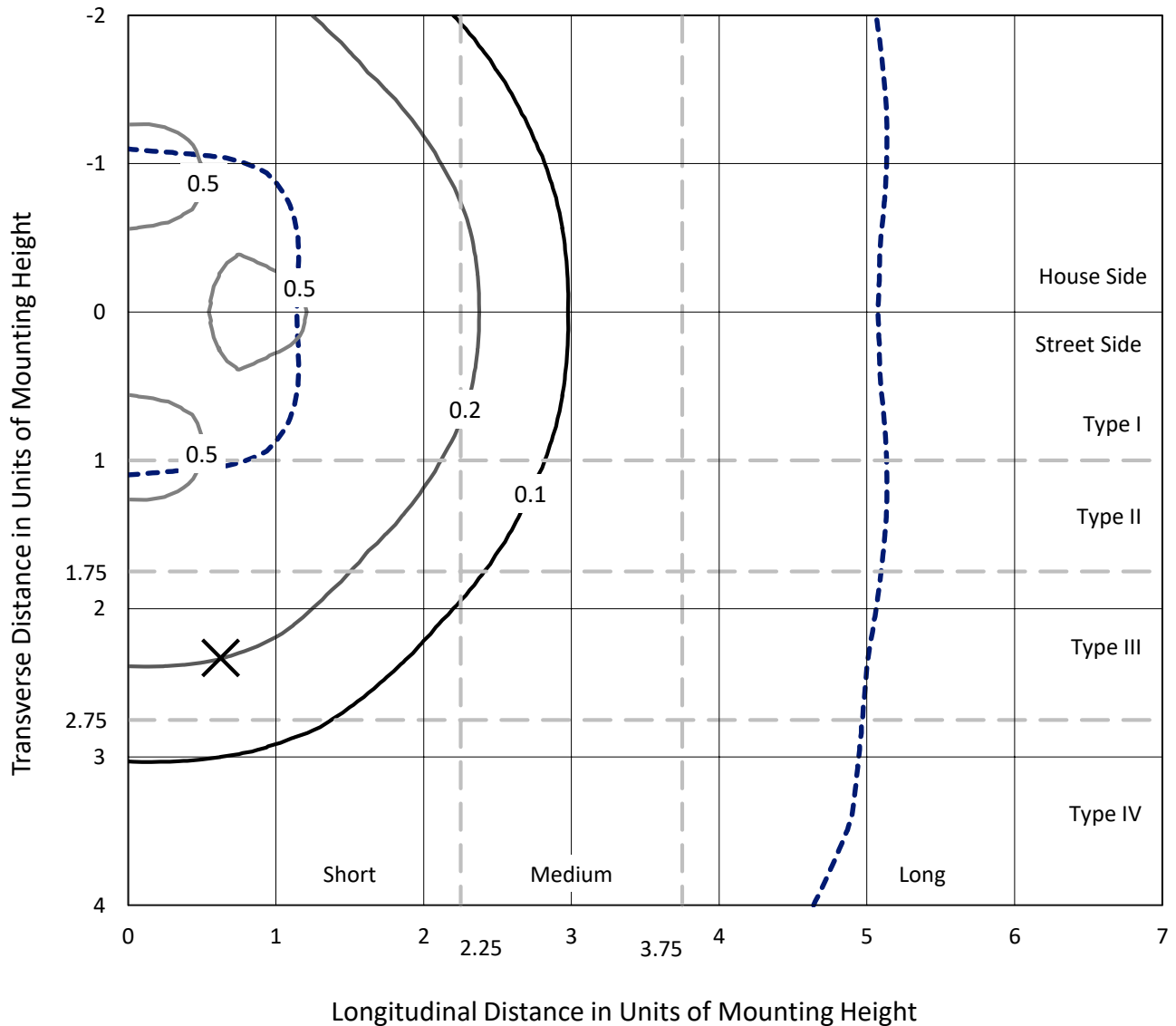
Input Watts (W): 96
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

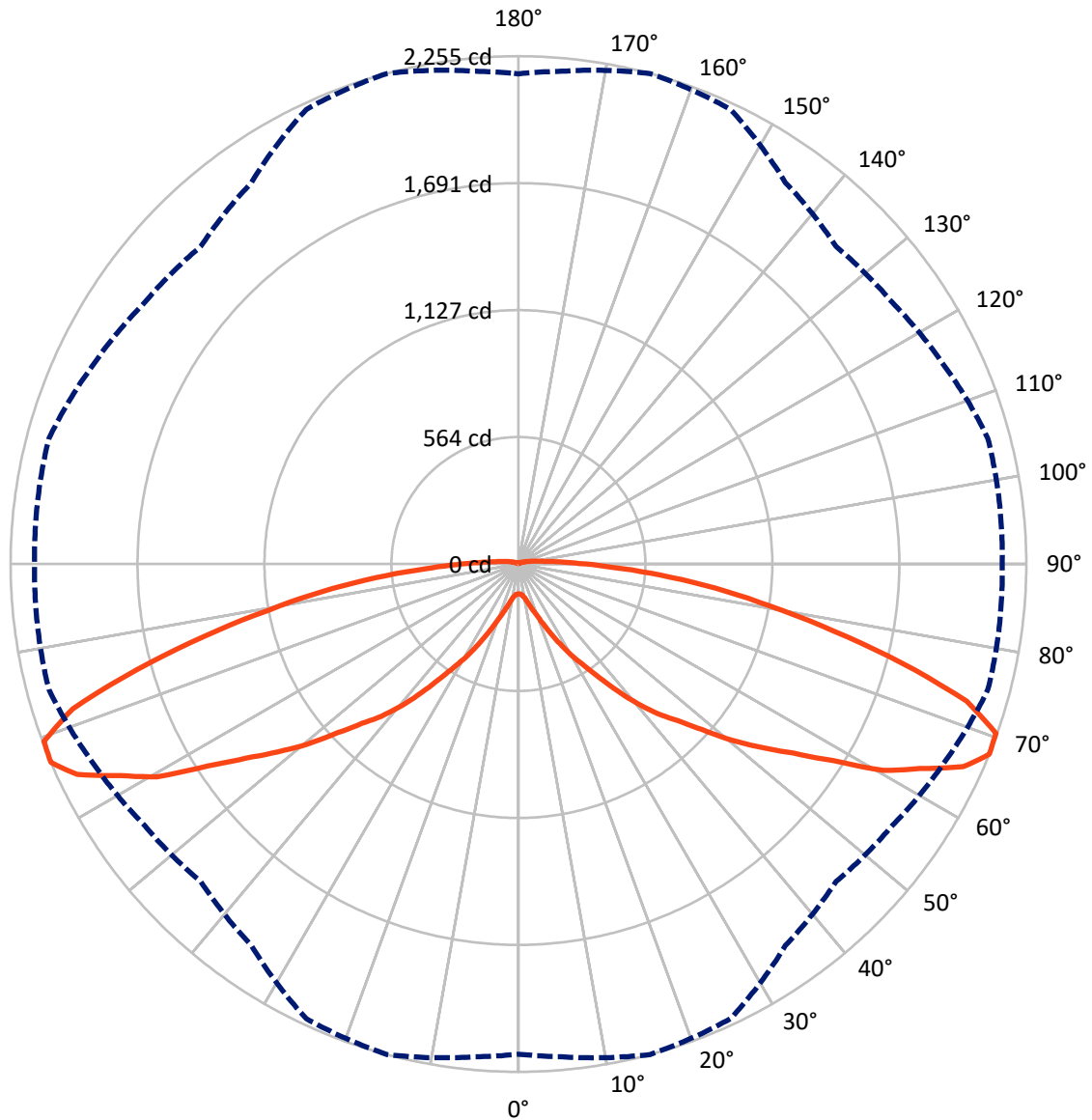
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.6 fc
 Type V - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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

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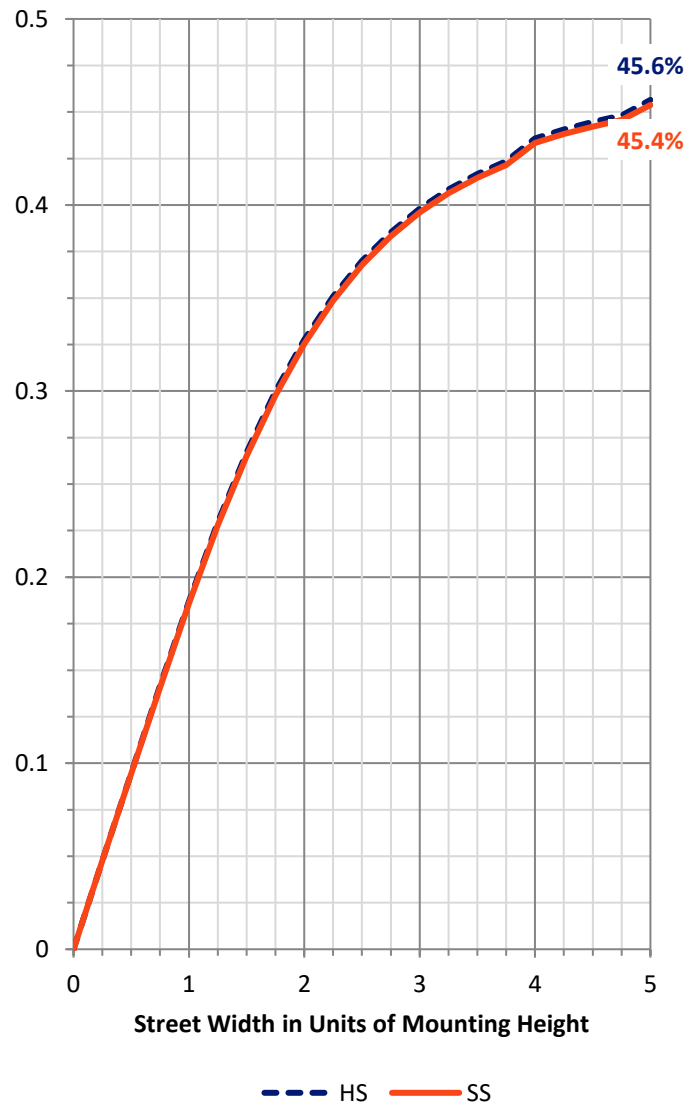
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 3536.7 | 145.3 | 3682.0 |
| | % Fixture | 48.0 | 2.0 | 50.0 |
| Street Side | Lumens | 3536.7 | 145.3 | 3682.0 |
| | % Fixture | 48.0 | 2.0 | 50.0 |
| Total | Lumens | 7073.4 | 290.6 | 7364.0 |
| | % Fixture | 96.1 | 3.9 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 13.4 | 0.2 |
| 10°-20° | 55.0 | 0.7 |
| 20°-30° | 158.6 | 2.2 |
| 30°-40° | 373.4 | 5.1 |
| 40°-50° | 703.8 | 9.6 |
| 50°-60° | 1255.2 | 17.0 |
| 60°-70° | 1984.4 | 26.9 |
| 70°-80° | 1748.3 | 23.7 |
| 80°-90° | 781.4 | 10.6 |
| 90°-100° | 194.1 | 2.6 |
| 100°-110° | 53.5 | 0.7 |
| 110°-120° | 21.5 | 0.3 |
| 120°-130° | 11.3 | 0.2 |
| 130°-140° | 6.6 | 0.1 |
| 140°-150° | 2.8 | 0.0 |
| 150°-160° | 0.8 | 0.0 |
| 160°-170° | 0.0 | 0.0 |
| 170°-180° | 0.0 | 0.0 |
| 0°-90° | 7073.4 | 96.1 |
| 0°-180° | 7364.0 | 100.0 |



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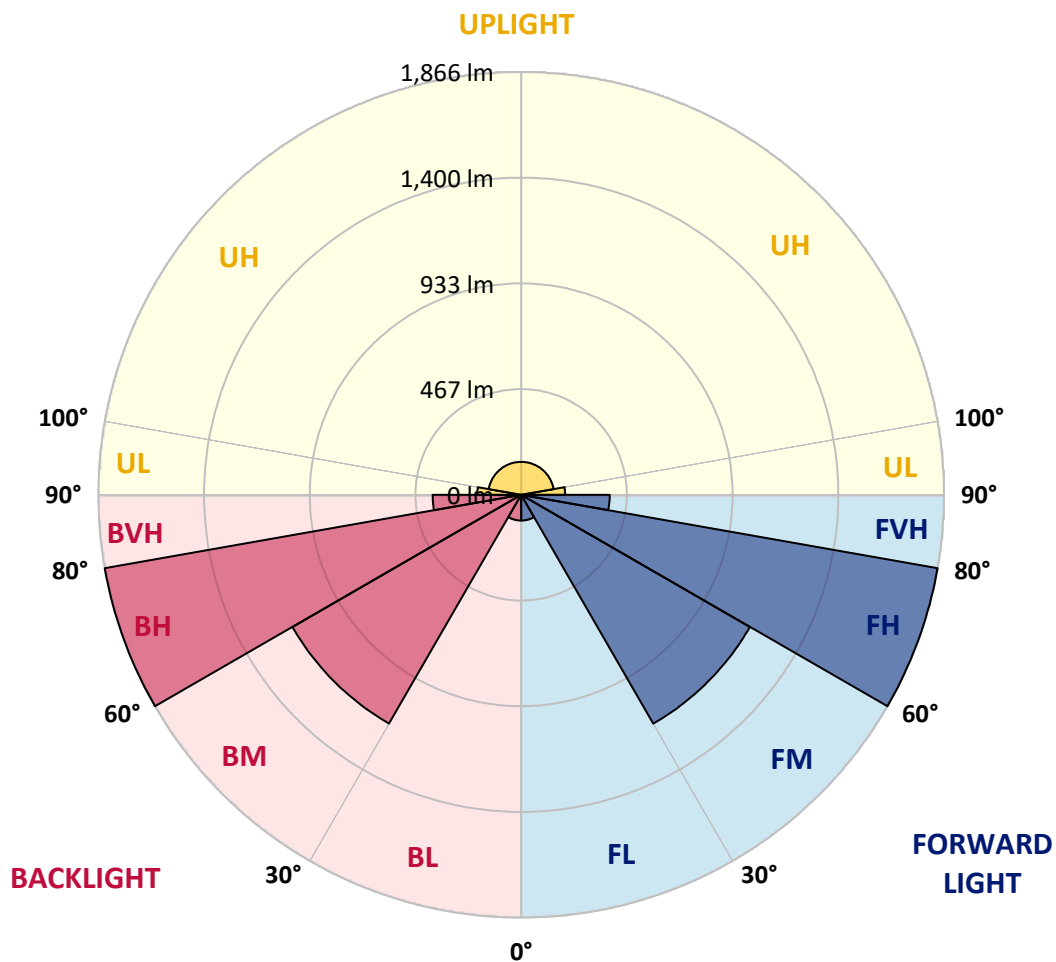
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|--------|---------|
| | | | B | U | G |
| FL (0°-30°) | 113.5 | 1.5 | | | |
| FM (30°-60°) | 1166.2 | 15.8 | | | |
| FH (60°-80°) | 1866.3 | 25.3 | | | G2/5000 |
| FVH (80°-90°) | 390.7 | 5.3 | | | G3/500 |
| BL (0°-30°) | 113.5 | 1.5 | B1/500 | | |
| BM (30°-60°) | 1166.2 | 15.8 | B2/2500 | | |
| BH (60°-80°) | 1866.3 | 25.3 | B3/2500 | | G2/5000 |
| BVH (80°-90°) | 390.7 | 5.3 | | | G3/500 |
| UL (90°-100°) | 194.1 | 2.6 | | U3/500 | |
| UH (100°-180°) | 145.3 | 2.0 | | U3/500 | |

BUG Rating: B3-U3-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 132.4 | 132.4 | 132.4 | 132.4 | 132.4 | 132.4 | 132.4 | 132.4 | 132.4 | 132.4 | 132.4 |
| 2.5° | 132.4 | 132.4 | 133.2 | 133.2 | 134.0 | 134.8 | 134.0 | 133.2 | 132.4 | 131.6 | 131.6 |
| 5° | 136.5 | 136.5 | 136.5 | 136.5 | 137.3 | 137.3 | 136.5 | 134.8 | 134.0 | 133.2 | 133.2 |
| 7.5° | 142.9 | 142.9 | 142.9 | 142.9 | 142.9 | 142.1 | 140.5 | 138.9 | 138.1 | 137.3 | 137.3 |
| 10° | 153.3 | 153.3 | 151.7 | 151.7 | 150.9 | 150.1 | 148.5 | 146.9 | 145.3 | 146.1 | 146.1 |
| 12.5° | 171.0 | 171.8 | 169.4 | 165.3 | 162.1 | 160.5 | 159.7 | 159.7 | 162.1 | 162.1 | 162.9 |
| 15° | 196.6 | 196.6 | 192.6 | 187.0 | 180.6 | 175.8 | 177.4 | 181.4 | 185.4 | 187.8 | 187.8 |
| 17.5° | 224.7 | 224.7 | 220.7 | 213.5 | 204.7 | 202.3 | 201.5 | 205.5 | 214.3 | 217.5 | 218.3 |
| 20° | 260.1 | 260.1 | 252.8 | 242.4 | 234.4 | 231.2 | 231.2 | 237.6 | 247.2 | 254.4 | 253.6 |
| 22.5° | 308.2 | 307.4 | 297.0 | 279.3 | 268.9 | 264.1 | 263.3 | 272.1 | 289.0 | 300.2 | 303.4 |
| 25° | 366.0 | 365.2 | 351.6 | 328.3 | 312.2 | 299.4 | 302.6 | 317.8 | 343.5 | 361.2 | 361.2 |
| 27.5° | 431.8 | 428.6 | 411.0 | 385.3 | 361.2 | 344.3 | 349.2 | 370.8 | 402.9 | 427.0 | 427.8 |
| 30° | 496.0 | 496.0 | 476.8 | 446.3 | 414.2 | 393.3 | 398.9 | 429.4 | 467.9 | 505.7 | 506.5 |
| 32.5° | 564.3 | 563.5 | 539.4 | 508.9 | 469.5 | 446.3 | 455.1 | 492.8 | 547.4 | 590.7 | 598.8 |
| 35° | 651.8 | 652.6 | 618.8 | 577.1 | 527.3 | 501.7 | 513.7 | 562.7 | 627.7 | 679.8 | 684.7 |
| 37.5° | 745.7 | 750.5 | 713.6 | 659.8 | 593.2 | 561.9 | 579.5 | 636.5 | 711.9 | 766.5 | 766.5 |
| 40° | 846.8 | 849.2 | 815.5 | 747.3 | 667.0 | 626.1 | 649.3 | 710.3 | 768.1 | 814.7 | 817.1 |
| 42.5° | 932.7 | 935.1 | 908.6 | 842.0 | 752.1 | 703.1 | 716.8 | 763.3 | 817.9 | 870.1 | 874.9 |
| 45° | 1000.1 | 1008.1 | 992.1 | 935.1 | 843.6 | 784.2 | 782.6 | 829.9 | 895.8 | 950.3 | 956.8 |
| 47.5° | 1122.1 | 1126.1 | 1098.0 | 1030.6 | 937.5 | 872.5 | 866.1 | 913.4 | 999.3 | 1057.9 | 1061.9 |
| 50° | 1229.7 | 1241.7 | 1231.3 | 1159.0 | 1048.3 | 969.6 | 970.4 | 1033.0 | 1126.1 | 1185.5 | 1191.1 |
| 52.5° | 1350.9 | 1356.5 | 1353.3 | 1291.5 | 1183.9 | 1090.8 | 1101.2 | 1171.9 | 1272.2 | 1309.1 | 1315.5 |
| 55° | 1461.6 | 1470.5 | 1481.7 | 1435.9 | 1329.2 | 1247.3 | 1256.9 | 1332.4 | 1399.8 | 1435.1 | 1438.3 |
| 57.5° | 1637.4 | 1646.2 | 1645.4 | 1578.0 | 1486.5 | 1407.0 | 1423.1 | 1482.5 | 1570.8 | 1631.0 | 1641.4 |
| 60° | 1828.4 | 1841.3 | 1861.3 | 1773.9 | 1636.6 | 1581.2 | 1601.3 | 1687.2 | 1787.5 | 1796.3 | 1807.6 |
| 62.5° | 1956.1 | 1962.5 | 2000.2 | 1971.3 | 1811.6 | 1745.0 | 1797.9 | 1871.0 | 1923.1 | 1931.2 | 1928.0 |
| 65° | 2123.0 | 2143.9 | 2170.4 | 2103.7 | 1975.3 | 1883.8 | 1944.8 | 1999.4 | 2093.3 | 2101.3 | 2099.7 |
| 67.5° | 2176.0 | 2196.0 | 2254.6 | 2227.3 | 2066.8 | 1993.8 | 2025.1 | 2085.3 | 2157.5 | 2151.1 | 2147.9 |
| 70° | 2180.0 | 2199.3 | 2249.0 | 2234.6 | 2087.7 | 1986.6 | 2018.7 | 2041.9 | 2108.6 | 2109.4 | 2100.5 |
| 72.5° | 1961.7 | 1995.4 | 2080.5 | 2106.1 | 1977.7 | 1874.2 | 1876.6 | 1875.8 | 1880.6 | 1827.6 | 1806.8 |
| 75° | 1652.7 | 1676.7 | 1760.2 | 1822.0 | 1756.2 | 1667.1 | 1665.5 | 1598.1 | 1583.6 | 1543.5 | 1529.0 |
| 77.5° | 1323.6 | 1353.3 | 1433.5 | 1501.0 | 1477.7 | 1429.5 | 1404.6 | 1328.4 | 1307.5 | 1261.8 | 1267.4 |
| 80° | 1029.0 | 1052.3 | 1131.7 | 1219.2 | 1225.6 | 1191.9 | 1164.6 | 1102.0 | 1061.1 | 1022.6 | 1005.7 |
| 82.5° | 792.2 | 812.3 | 880.5 | 975.2 | 1014.5 | 1010.5 | 972.0 | 901.4 | 864.5 | 827.5 | 805.9 |
| 85° | 547.4 | 565.1 | 632.5 | 747.3 | 817.9 | 842.8 | 799.4 | 710.3 | 644.5 | 592.4 | 580.3 |
| 87.5° | 353.2 | 361.2 | 415.0 | 514.5 | 620.4 | 679.0 | 633.3 | 521.7 | 439.0 | 397.3 | 383.7 |
| 90° | 220.7 | 232.8 | 271.3 | 333.1 | 436.6 | 511.3 | 464.7 | 351.6 | 292.2 | 249.6 | 240.8 |
| 92.5° | 153.3 | 151.7 | 178.2 | 221.5 | 297.8 | 358.8 | 318.7 | 232.8 | 184.6 | 156.5 | 150.9 |
| 95° | 101.1 | 105.1 | 119.6 | 146.9 | 201.5 | 239.2 | 210.3 | 154.9 | 121.2 | 101.1 | 98.7 |
| 97.5° | 75.4 | 76.3 | 87.5 | 104.3 | 137.3 | 157.3 | 139.7 | 107.6 | 85.9 | 73.0 | 72.2 |
| 100° | 59.4 | 60.2 | 68.2 | 77.9 | 96.3 | 109.2 | 97.9 | 81.1 | 66.6 | 57.0 | 57.0 |
| 102.5° | 46.6 | 47.4 | 53.0 | 61.0 | 73.0 | 81.1 | 74.6 | 62.6 | 52.2 | 44.9 | 44.1 |
| 105° | 36.9 | 36.9 | 41.7 | 48.2 | 57.0 | 62.6 | 58.6 | 49.0 | 40.1 | 35.3 | 35.3 |
| 107.5° | 28.9 | 29.7 | 32.9 | 37.7 | 45.8 | 51.4 | 46.6 | 37.7 | 31.3 | 27.3 | 27.3 |
| 110° | 23.3 | 23.3 | 25.7 | 30.5 | 36.9 | 41.7 | 37.7 | 30.5 | 24.9 | 22.5 | 22.5 |



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CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|--------|------|------|------|------|------|------|------|------|------|------|------|
| 112.5° | 19.3 | 19.3 | 20.9 | 24.9 | 30.5 | 34.5 | 30.5 | 24.9 | 20.1 | 18.5 | 18.5 |
| 115° | 16.1 | 16.1 | 17.7 | 20.1 | 25.7 | 28.1 | 25.7 | 20.1 | 16.9 | 15.3 | 15.3 |
| 117.5° | 14.4 | 14.4 | 15.3 | 17.7 | 21.7 | 23.3 | 21.7 | 16.9 | 14.4 | 13.6 | 13.6 |
| 120° | 12.8 | 12.8 | 13.6 | 15.3 | 18.5 | 20.1 | 18.5 | 15.3 | 12.8 | 12.0 | 12.0 |
| 122.5° | 12.0 | 12.0 | 12.0 | 13.6 | 16.9 | 17.7 | 16.1 | 13.6 | 11.2 | 11.2 | 11.2 |
| 125° | 11.2 | 11.2 | 11.2 | 12.0 | 14.4 | 15.3 | 14.4 | 12.0 | 10.4 | 10.4 | 10.4 |
| 127.5° | 10.4 | 10.4 | 10.4 | 11.2 | 12.8 | 13.6 | 12.8 | 11.2 | 9.6 | 9.6 | 9.6 |
| 130° | 10.4 | 10.4 | 9.6 | 10.4 | 11.2 | 12.0 | 11.2 | 10.4 | 9.6 | 8.8 | 9.6 |
| 132.5° | 9.6 | 9.6 | 9.6 | 9.6 | 10.4 | 10.4 | 10.4 | 9.6 | 8.8 | 8.8 | 8.8 |
| 135° | 8.8 | 8.8 | 8.0 | 8.0 | 8.8 | 9.6 | 8.8 | 8.0 | 8.0 | 8.0 | 8.0 |
| 137.5° | 8.0 | 7.2 | 7.2 | 7.2 | 8.0 | 8.0 | 8.0 | 7.2 | 7.2 | 7.2 | 7.2 |
| 140° | 6.4 | 6.4 | 6.4 | 6.4 | 6.4 | 7.2 | 6.4 | 5.6 | 5.6 | 6.4 | 6.4 |
| 142.5° | 5.6 | 5.6 | 5.6 | 4.8 | 5.6 | 5.6 | 5.6 | 4.8 | 4.8 | 4.8 | 4.8 |
| 145° | 4.8 | 4.8 | 4.8 | 4.0 | 4.8 | 4.8 | 4.8 | 4.0 | 4.0 | 4.0 | 4.0 |
| 147.5° | 3.2 | 4.0 | 3.2 | 3.2 | 4.0 | 4.0 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 |
| 150° | 2.4 | 2.4 | 2.4 | 2.4 | 3.2 | 3.2 | 2.4 | 2.4 | 2.4 | 2.4 | 2.4 |
| 152.5° | 1.6 | 1.6 | 2.4 | 2.4 | 2.4 | 2.4 | 2.4 | 2.4 | 1.6 | 1.6 | 1.6 |
| 155° | 1.6 | 1.6 | 1.6 | 1.6 | 2.4 | 2.4 | 1.6 | 1.6 | 1.6 | 0.8 | 0.8 |
| 157.5° | 0.8 | 0.8 | 0.8 | 0.8 | 1.6 | 2.4 | 1.6 | 0.8 | 0.8 | 0.8 | 0.8 |
| 160° | 0.0 | 0.0 | 0.0 | 0.8 | 1.6 | 2.4 | 1.6 | 0.8 | 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)