

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: P417362

Luminaire Tested: **LXF.LXT-PA1-90-830-U-5WQ-FL**

Issue Date: 10/26/2020

Test Information

Test Method: LM-79-08
Report Number: P417362
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-PA1-90-830-U-5WQ-FL
Description: DECORATIVE POST TOP LUMINAIRE
(1) 80 CRI, 3000K, 1180mA 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: 7684 lumens
Efficiency: N/A
Efficacy: 81.7 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: B3 - U3 - G3

Input Watts (W): 94
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

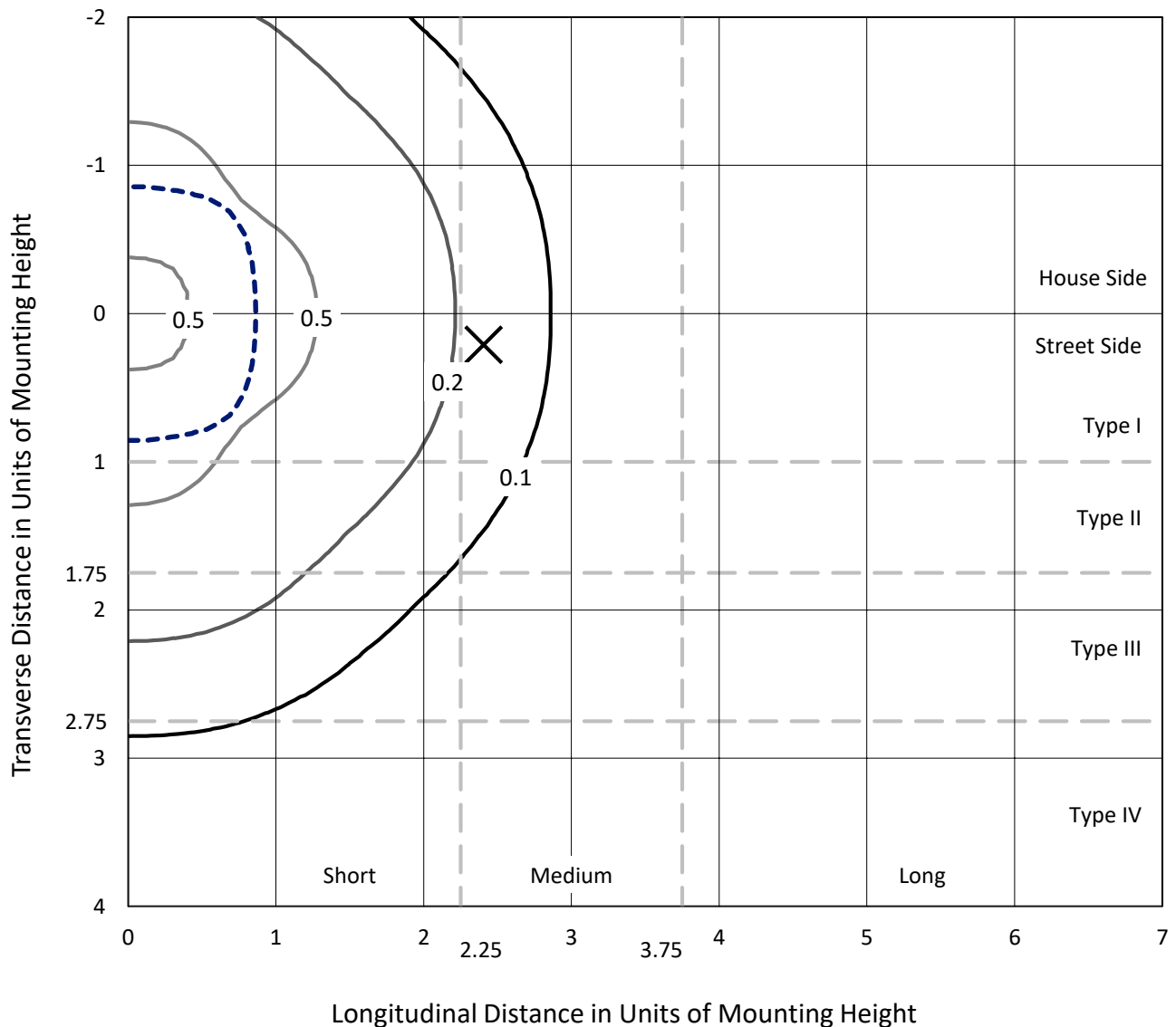


REPORT NUMBER: P417362

CATALOG NUMBER: LXF.LXT-PA1-90-830-U-5WQ-FL

Iso-Footcandle Lines of Horizontal Illumination

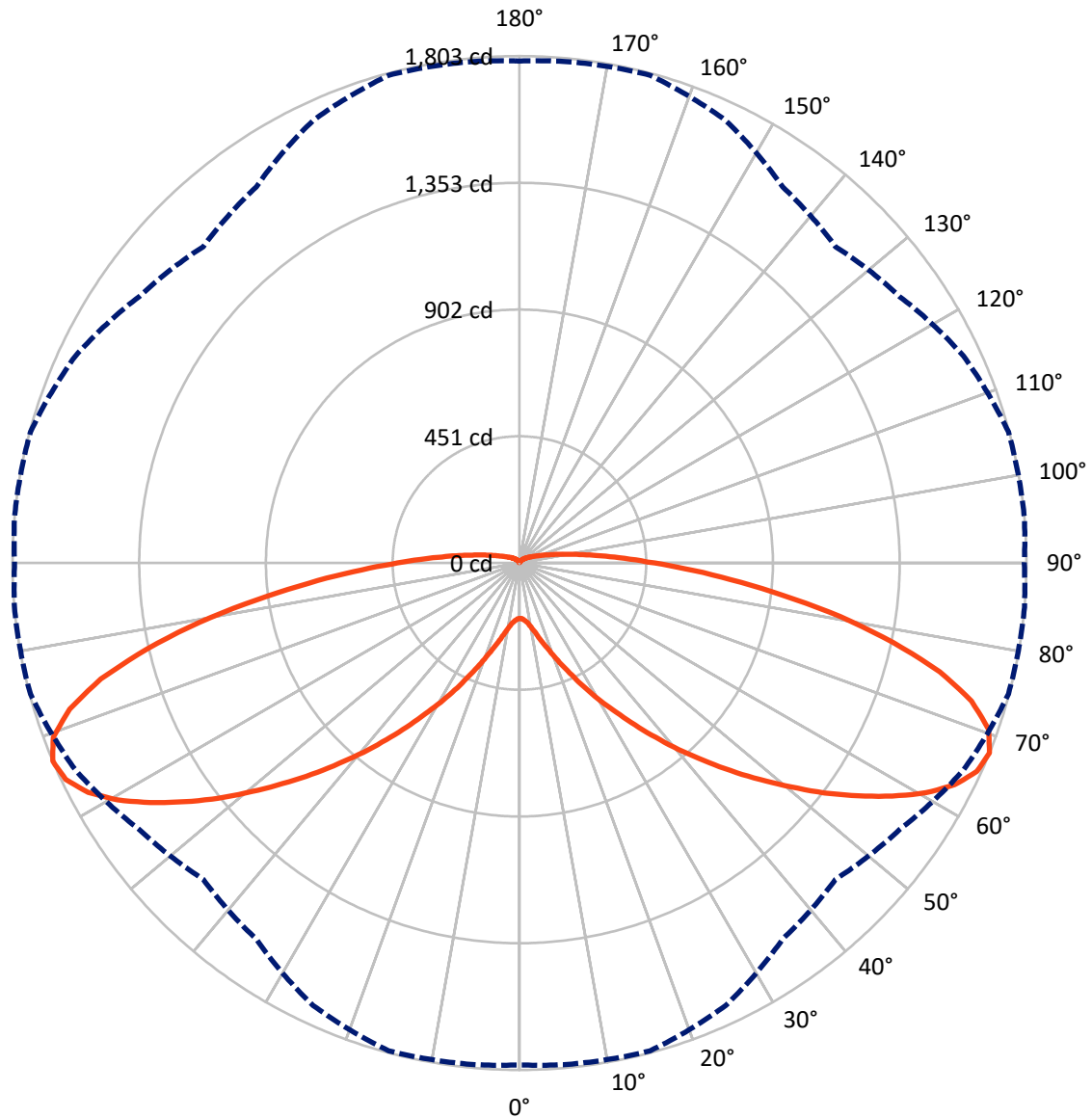
✕ Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P417362
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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 | 3484.3 | 357.7 | 3842.0 |
| | % Fixture | 45.3 | 4.7 | 50.0 |
| Street Side | Lumens | 3484.3 | 357.7 | 3842.0 |
| | % Fixture | 45.3 | 4.7 | 50.0 |
| Total | Lumens | 6968.7 | 715.3 | 7684.0 |
| | % Fixture | 90.7 | 9.3 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 20.5 | 0.3 |
| 10°-20° | 83.5 | 1.1 |
| 20°-30° | 211.2 | 2.7 |
| 30°-40° | 434.7 | 5.7 |
| 40°-50° | 781.5 | 10.2 |
| 50°-60° | 1249.2 | 16.3 |
| 60°-70° | 1671.4 | 21.8 |
| 70°-80° | 1583.8 | 20.6 |
| 80°-90° | 932.8 | 12.1 |
| 90°-100° | 403.0 | 5.2 |
| 100°-110° | 171.6 | 2.2 |
| 110°-120° | 79.0 | 1.0 |
| 120°-130° | 37.8 | 0.5 |
| 130°-140° | 16.9 | 0.2 |
| 140°-150° | 5.8 | 0.1 |
| 150°-160° | 1.2 | 0.0 |
| 160°-170° | 0.1 | 0.0 |
| 170°-180° | 0.0 | 0.0 |
| 0°-90° | 6968.7 | 90.7 |
| 0°-180° | 7684.0 | 100.0 |



REPORT NUMBER: P417362

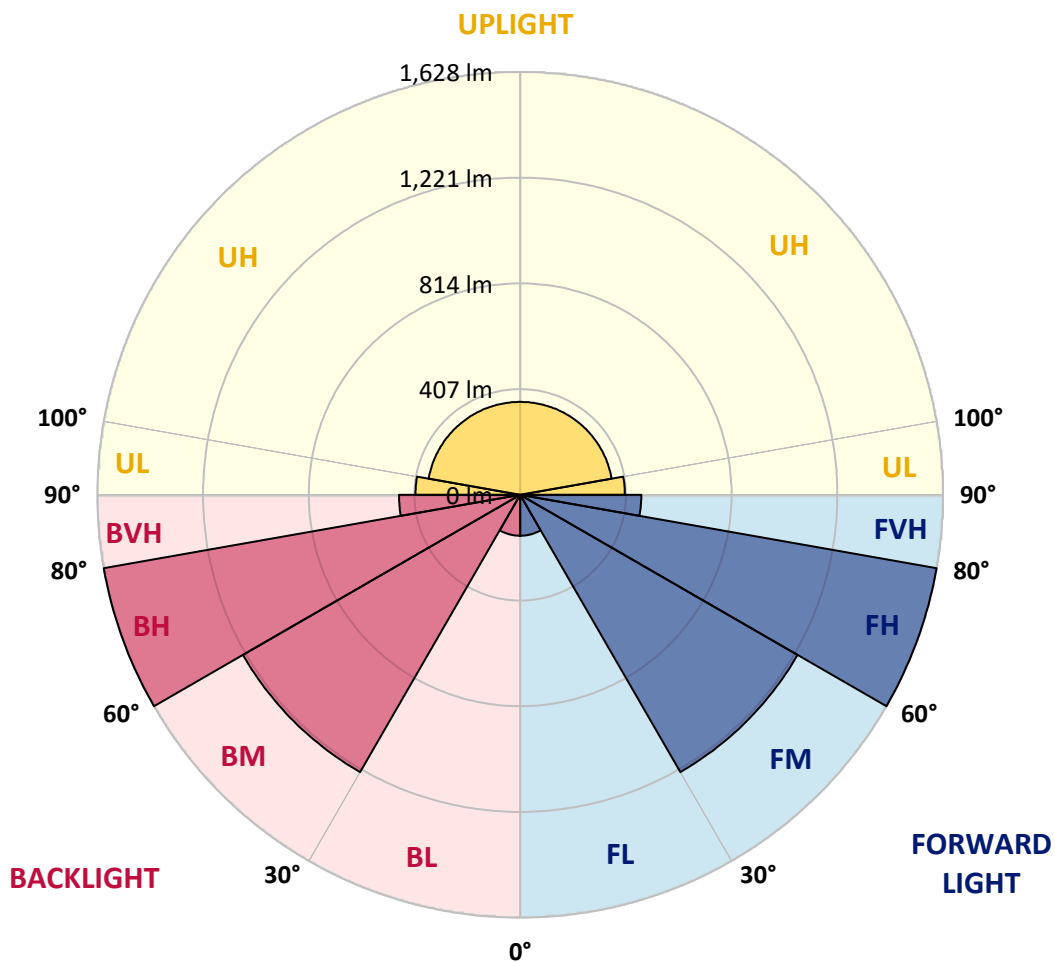
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|--------|---------|
| | | | B | U | G |
| FL (0°-30°) | 157.6 | 2.1 | | | |
| FM (30°-60°) | 1232.7 | 16.0 | | | |
| FH (60°-80°) | 1627.6 | 21.2 | | | G1/1800 |
| FVH (80°-90°) | 466.4 | 6.1 | | | G3/500 |
| BL (0°-30°) | 157.6 | 2.1 | B1/500 | | |
| BM (30°-60°) | 1232.7 | 16.0 | B2/2500 | | |
| BH (60°-80°) | 1627.6 | 21.2 | B3/2500 | | G1/1800 |
| BVH (80°-90°) | 466.4 | 6.1 | | | G3/500 |
| UL (90°-100°) | 403.0 | 5.2 | | U3/500 | |
| UH (100°-180°) | 357.7 | 4.7 | | U3/500 | |

BUG Rating: B3-U3-G3

Type V Medium





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CATALOG NUMBER: LXF.LXT-PA1-90-830-U-5WQ-FL

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 197.0 | 197.0 | 197.0 | 197.0 | 197.0 | 197.0 | 197.0 | 197.0 | 197.0 | 197.0 | 197.0 |
| 2.5° | 198.8 | 197.9 | 198.8 | 198.8 | 199.6 | 199.6 | 199.6 | 199.6 | 198.8 | 198.8 | 198.8 |
| 5° | 205.6 | 205.6 | 205.6 | 205.6 | 206.5 | 206.5 | 206.5 | 205.6 | 205.6 | 205.6 | 205.6 |
| 7.5° | 218.5 | 217.6 | 218.5 | 217.6 | 217.6 | 216.8 | 217.6 | 216.8 | 215.9 | 215.9 | 215.9 |
| 10° | 234.7 | 234.7 | 234.7 | 233.9 | 233.9 | 233.9 | 232.2 | 232.2 | 232.2 | 233.0 | 232.2 |
| 12.5° | 261.3 | 259.6 | 259.6 | 256.2 | 254.4 | 253.6 | 252.7 | 252.7 | 255.3 | 255.3 | 253.6 |
| 15° | 292.1 | 291.3 | 291.3 | 287.0 | 283.6 | 278.4 | 279.3 | 282.7 | 282.7 | 284.4 | 283.6 |
| 17.5° | 329.0 | 328.1 | 325.6 | 321.3 | 317.0 | 313.6 | 311.8 | 313.6 | 315.3 | 316.1 | 317.0 |
| 20° | 369.2 | 368.4 | 365.0 | 360.7 | 356.4 | 354.7 | 348.7 | 351.3 | 353.0 | 354.7 | 353.8 |
| 22.5° | 412.1 | 412.1 | 408.7 | 402.7 | 398.4 | 394.9 | 392.4 | 389.8 | 395.8 | 399.2 | 400.1 |
| 25° | 464.3 | 462.6 | 456.6 | 449.8 | 444.6 | 442.1 | 438.6 | 438.6 | 442.9 | 449.8 | 451.5 |
| 27.5° | 519.2 | 517.5 | 508.9 | 501.2 | 494.3 | 488.3 | 486.6 | 489.2 | 496.9 | 507.2 | 507.2 |
| 30° | 580.0 | 576.6 | 568.9 | 556.9 | 545.7 | 539.7 | 541.4 | 545.7 | 556.9 | 568.9 | 568.0 |
| 32.5° | 646.8 | 640.8 | 632.3 | 618.6 | 602.3 | 593.7 | 596.3 | 608.3 | 619.4 | 632.3 | 634.0 |
| 35° | 717.9 | 717.1 | 703.4 | 685.4 | 664.8 | 651.1 | 656.2 | 672.5 | 689.7 | 707.7 | 710.2 |
| 37.5° | 790.8 | 793.3 | 777.0 | 757.3 | 727.4 | 711.1 | 722.2 | 745.3 | 766.8 | 786.5 | 788.2 |
| 40° | 879.9 | 877.3 | 861.0 | 831.9 | 795.9 | 777.9 | 787.3 | 819.9 | 847.3 | 872.1 | 873.9 |
| 42.5° | 971.5 | 964.7 | 951.0 | 915.8 | 867.9 | 851.6 | 865.3 | 902.1 | 939.0 | 959.5 | 960.4 |
| 45° | 1058.1 | 1060.6 | 1045.2 | 1003.2 | 950.1 | 925.3 | 945.0 | 988.7 | 1031.5 | 1053.8 | 1056.3 |
| 47.5° | 1166.9 | 1160.0 | 1146.3 | 1092.3 | 1032.3 | 1007.5 | 1029.8 | 1082.9 | 1130.0 | 1150.6 | 1149.7 |
| 50° | 1273.1 | 1268.8 | 1249.1 | 1192.6 | 1124.9 | 1094.9 | 1117.2 | 1182.3 | 1233.7 | 1251.7 | 1256.0 |
| 52.5° | 1374.2 | 1372.5 | 1355.3 | 1292.8 | 1220.0 | 1183.1 | 1214.0 | 1281.7 | 1340.8 | 1358.8 | 1360.5 |
| 55° | 1477.8 | 1472.7 | 1459.9 | 1394.7 | 1311.6 | 1270.5 | 1309.1 | 1384.5 | 1445.3 | 1462.4 | 1463.3 |
| 57.5° | 1570.4 | 1573.8 | 1563.5 | 1495.0 | 1399.0 | 1359.6 | 1402.5 | 1486.4 | 1548.1 | 1564.4 | 1566.9 |
| 60° | 1662.9 | 1663.8 | 1656.0 | 1589.2 | 1487.3 | 1442.7 | 1492.4 | 1579.8 | 1645.8 | 1660.3 | 1661.2 |
| 62.5° | 1735.7 | 1737.4 | 1731.4 | 1658.6 | 1556.7 | 1513.8 | 1568.7 | 1659.5 | 1727.1 | 1737.4 | 1736.6 |
| 65° | 1780.3 | 1785.4 | 1782.0 | 1716.0 | 1607.2 | 1567.8 | 1625.2 | 1720.3 | 1782.0 | 1788.0 | 1785.4 |
| 67.5° | 1785.4 | 1791.4 | 1796.5 | 1736.6 | 1632.9 | 1590.9 | 1651.8 | 1742.6 | 1800.8 | 1803.4 | 1795.7 |
| 70° | 1747.7 | 1753.7 | 1765.7 | 1716.0 | 1620.1 | 1584.9 | 1643.2 | 1724.6 | 1773.4 | 1770.0 | 1761.4 |
| 72.5° | 1650.9 | 1663.8 | 1681.7 | 1648.3 | 1567.8 | 1538.7 | 1596.1 | 1661.2 | 1694.6 | 1681.7 | 1669.7 |
| 75° | 1512.1 | 1525.0 | 1559.2 | 1540.4 | 1478.7 | 1462.4 | 1505.3 | 1554.1 | 1563.5 | 1544.7 | 1528.4 |
| 77.5° | 1343.3 | 1359.6 | 1391.3 | 1405.9 | 1364.8 | 1348.5 | 1384.5 | 1410.2 | 1399.9 | 1358.8 | 1346.8 |
| 80° | 1146.3 | 1172.0 | 1205.4 | 1228.5 | 1218.3 | 1213.1 | 1231.1 | 1228.5 | 1190.8 | 1158.3 | 1137.7 |
| 82.5° | 966.4 | 971.5 | 1022.9 | 1052.1 | 1055.5 | 1057.2 | 1062.3 | 1031.5 | 987.8 | 944.1 | 925.3 |
| 85° | 789.9 | 791.6 | 834.4 | 876.4 | 892.7 | 897.8 | 888.4 | 847.3 | 801.9 | 753.1 | 740.2 |
| 87.5° | 633.1 | 635.7 | 673.4 | 716.2 | 744.5 | 747.9 | 729.9 | 689.7 | 633.1 | 589.4 | 578.3 |
| 90° | 500.3 | 508.9 | 546.6 | 581.7 | 611.7 | 616.8 | 591.1 | 548.3 | 496.0 | 454.1 | 447.2 |
| 92.5° | 400.1 | 404.4 | 438.6 | 471.2 | 499.5 | 500.3 | 482.3 | 438.6 | 392.4 | 354.7 | 346.1 |
| 95° | 321.3 | 324.7 | 352.1 | 382.1 | 405.2 | 410.4 | 389.8 | 351.3 | 308.4 | 275.9 | 274.2 |
| 97.5° | 256.2 | 260.4 | 281.9 | 313.6 | 330.7 | 334.1 | 320.4 | 284.4 | 245.0 | 215.9 | 215.9 |
| 100° | 205.6 | 208.2 | 227.0 | 253.6 | 271.6 | 275.0 | 261.3 | 229.6 | 195.3 | 169.6 | 167.9 |
| 102.5° | 167.1 | 168.8 | 184.2 | 208.2 | 224.5 | 227.9 | 215.9 | 190.2 | 156.8 | 136.2 | 135.4 |
| 105° | 137.1 | 137.9 | 149.9 | 172.2 | 187.6 | 190.2 | 179.1 | 156.8 | 126.8 | 109.7 | 108.8 |
| 107.5° | 112.2 | 113.1 | 122.5 | 143.1 | 157.6 | 160.2 | 150.8 | 128.5 | 102.8 | 90.8 | 89.1 |
| 110° | 94.2 | 95.1 | 101.9 | 118.2 | 132.8 | 136.2 | 126.8 | 107.1 | 84.8 | 74.5 | 74.5 |



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CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|--------|------|------|------|------|-------|-------|-------|------|------|------|------|
| 112.5° | 79.7 | 80.5 | 85.7 | 99.4 | 112.2 | 116.5 | 107.1 | 89.1 | 71.1 | 63.4 | 62.5 |
| 115° | 67.7 | 68.5 | 72.0 | 84.0 | 94.2 | 97.7 | 90.8 | 74.5 | 60.0 | 54.0 | 54.0 |
| 117.5° | 59.1 | 60.0 | 61.7 | 71.1 | 80.5 | 83.1 | 76.2 | 62.5 | 50.5 | 47.1 | 47.1 |
| 120° | 52.3 | 52.3 | 53.1 | 60.0 | 67.7 | 70.3 | 64.3 | 53.1 | 43.7 | 41.1 | 41.1 |
| 122.5° | 45.4 | 45.4 | 46.3 | 51.4 | 57.4 | 59.1 | 54.0 | 44.5 | 37.7 | 36.8 | 36.0 |
| 125° | 40.3 | 40.3 | 40.3 | 43.7 | 48.8 | 49.7 | 45.4 | 37.7 | 33.4 | 32.6 | 32.6 |
| 127.5° | 35.1 | 35.1 | 35.1 | 36.8 | 40.3 | 41.1 | 37.7 | 31.7 | 29.1 | 28.3 | 28.3 |
| 130° | 30.8 | 30.8 | 30.8 | 31.7 | 33.4 | 34.3 | 30.8 | 27.4 | 25.7 | 25.7 | 25.7 |
| 132.5° | 27.4 | 27.4 | 26.6 | 26.6 | 27.4 | 27.4 | 25.7 | 23.1 | 22.3 | 22.3 | 22.3 |
| 135° | 24.0 | 24.0 | 23.1 | 22.3 | 22.3 | 21.4 | 19.7 | 18.8 | 19.7 | 19.7 | 19.7 |
| 137.5° | 20.6 | 20.6 | 19.7 | 18.8 | 18.0 | 17.1 | 16.3 | 15.4 | 16.3 | 17.1 | 17.1 |
| 140° | 17.1 | 17.1 | 16.3 | 14.6 | 13.7 | 12.9 | 12.0 | 12.9 | 13.7 | 14.6 | 14.6 |
| 142.5° | 13.7 | 13.7 | 13.7 | 12.0 | 10.3 | 9.4 | 9.4 | 10.3 | 11.1 | 12.0 | 12.0 |
| 145° | 11.1 | 11.1 | 10.3 | 9.4 | 7.7 | 6.9 | 6.9 | 7.7 | 9.4 | 9.4 | 9.4 |
| 147.5° | 8.6 | 8.6 | 7.7 | 6.9 | 5.1 | 4.3 | 5.1 | 6.0 | 6.9 | 7.7 | 7.7 |
| 150° | 6.0 | 6.0 | 6.0 | 5.1 | 3.4 | 3.4 | 3.4 | 4.3 | 5.1 | 5.1 | 5.1 |
| 152.5° | 3.4 | 3.4 | 3.4 | 3.4 | 2.6 | 1.7 | 2.6 | 3.4 | 3.4 | 3.4 | 3.4 |
| 155° | 2.6 | 2.6 | 2.6 | 2.6 | 1.7 | 1.7 | 1.7 | 2.6 | 2.6 | 2.6 | 2.6 |
| 157.5° | 0.9 | 0.9 | 0.9 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 |
| 160° | 0.0 | 0.0 | 0.9 | 0.9 | 1.7 | 1.7 | 1.7 | 1.7 | 0.9 | 0.9 | 0.9 |
| 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)