

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: P255069

Luminaire Tested: **LXF.LXT-AF24-50-D-U-5WQ-TL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P255069
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1806-803-33)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: LXF.LXT-AF24-50-D-U-5WQ-TL
Description: DECORATIVE POST TOP LUMINAIRE
(1) 70 CRI, 4000K, 670mA LIGHT ENGINE WITH 24 LEDS AND TYPE V WIDE OPTICS
AND TEXTURED LENS PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5899.3 lumens
Efficiency: N/A
Efficacy: 109.2 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): 54
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

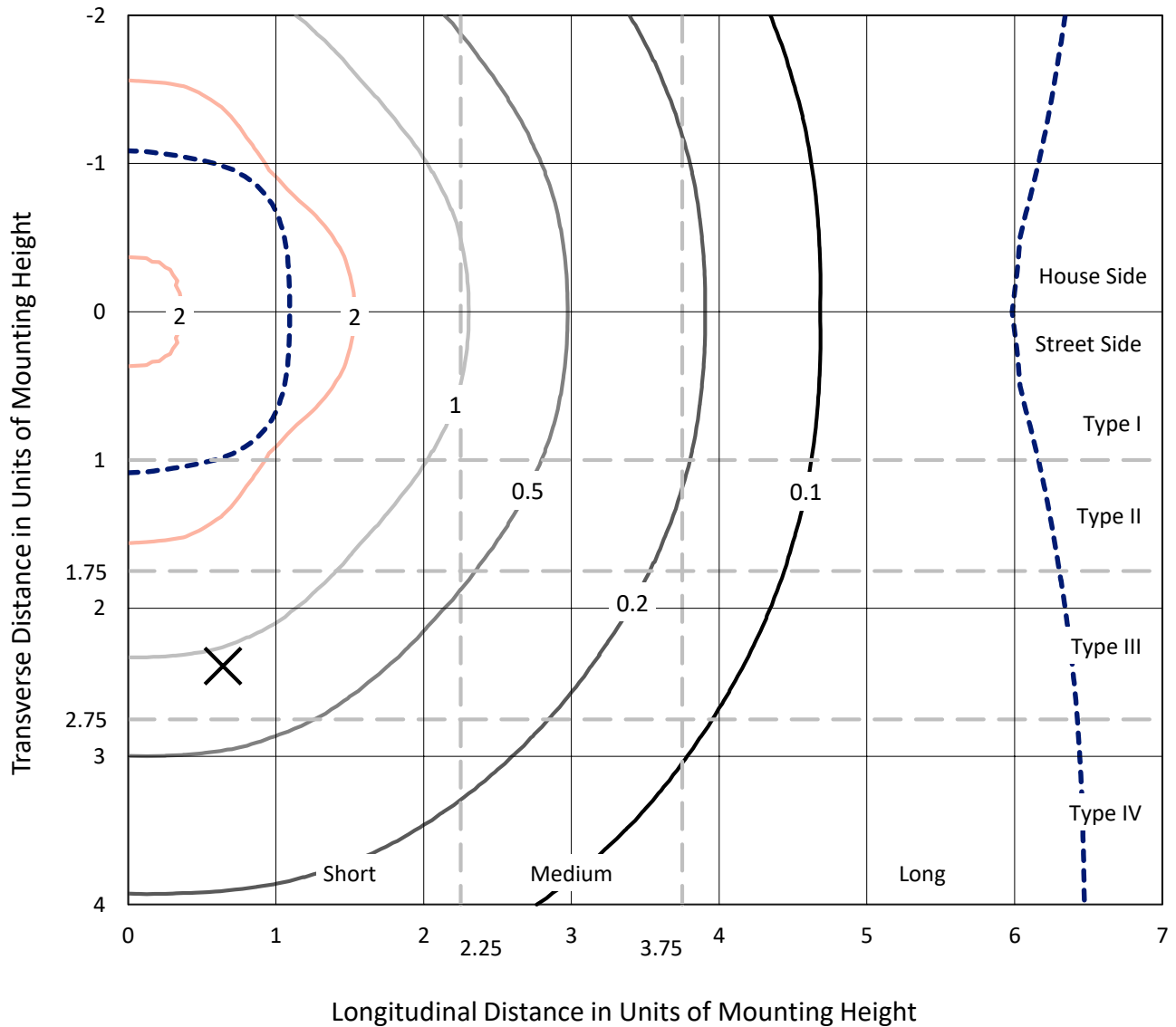


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

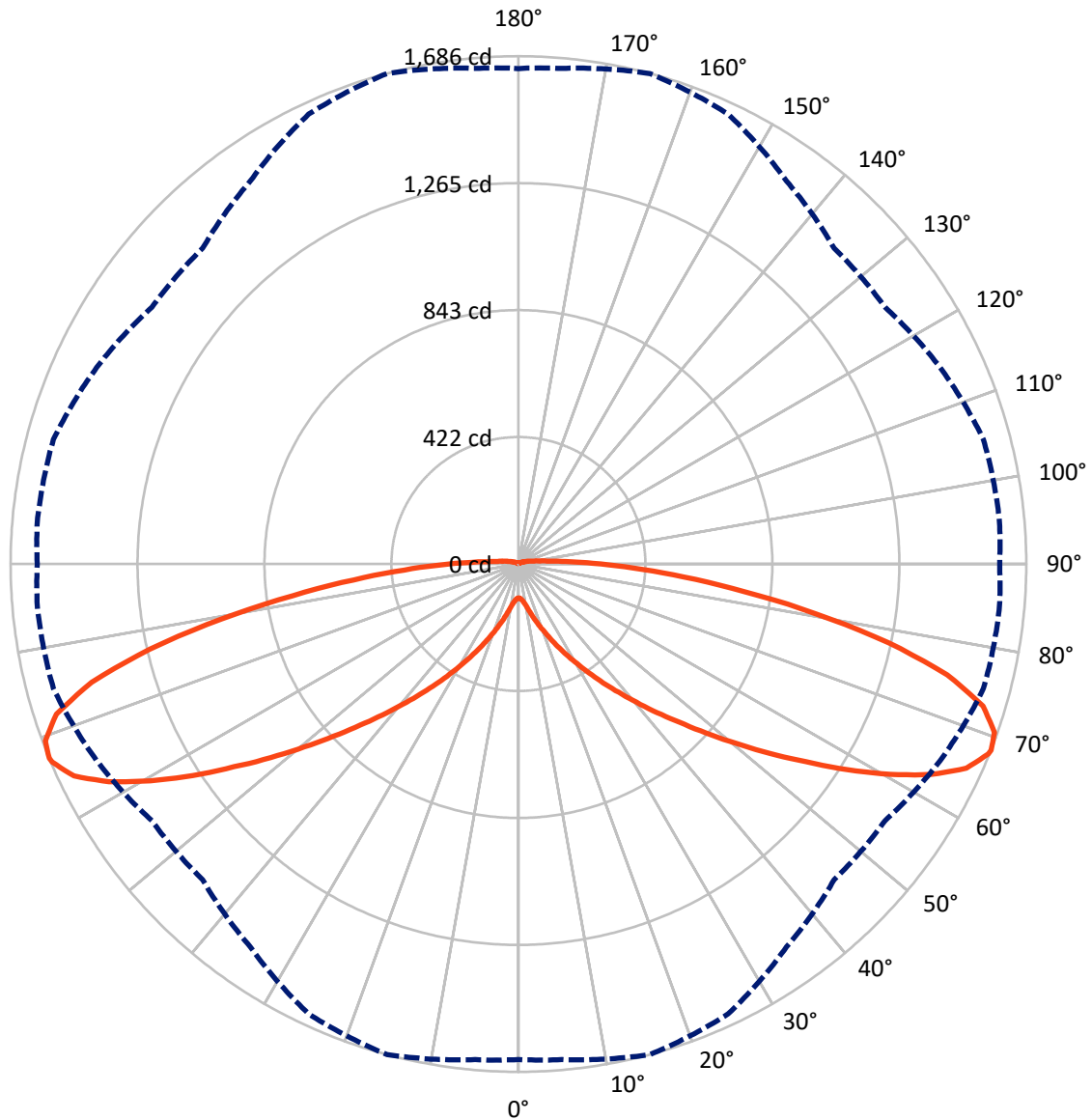


Based on 10 foot mounting height. Maximum calculated value = 2.8 fc
 Type V - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 15-Deg Lateral - - - Horizontal Cone Through 68-Deg Vertical

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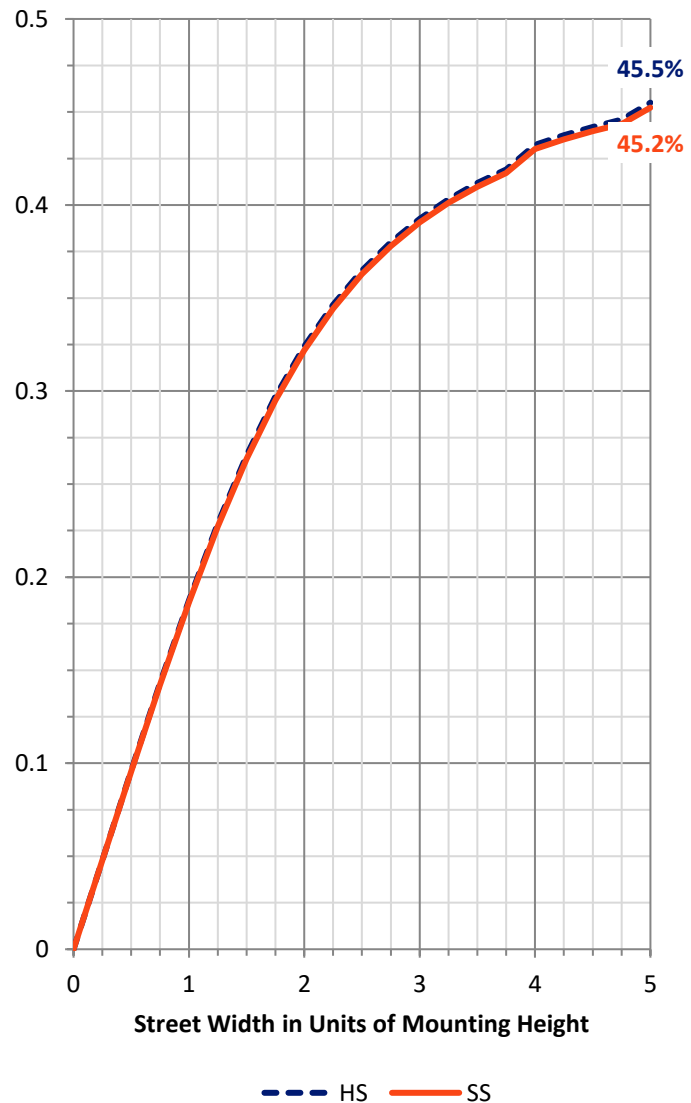
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 2831.6 | 118.0 | 2949.7 |
| | % Fixture | 48.0 | 2.0 | 50.0 |
| Street Side | Lumens | 2831.6 | 118.0 | 2949.7 |
| | % Fixture | 48.0 | 2.0 | 50.0 |
| Total | Lumens | 5663.2 | 236.1 | 5899.3 |
| | % Fixture | 96.0 | 4.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 12.1 | 0.2 |
| 10°-20° | 53.9 | 0.9 |
| 20°-30° | 142.2 | 2.4 |
| 30°-40° | 298.4 | 5.1 |
| 40°-50° | 560.2 | 9.5 |
| 50°-60° | 989.8 | 16.8 |
| 60°-70° | 1492.8 | 25.3 |
| 70°-80° | 1446.9 | 24.5 |
| 80°-90° | 666.9 | 11.3 |
| 90°-100° | 158.7 | 2.7 |
| 100°-110° | 44.3 | 0.8 |
| 110°-120° | 18.6 | 0.3 |
| 120°-130° | 8.3 | 0.1 |
| 130°-140° | 4.0 | 0.1 |
| 140°-150° | 1.7 | 0.0 |
| 150°-160° | 0.4 | 0.0 |
| 160°-170° | 0.0 | 0.0 |
| 170°-180° | 0.0 | 0.0 |
| 0°-90° | 5663.2 | 96.0 |
| 0°-180° | 5899.3 | 100.0 |

Coefficient of Utilization



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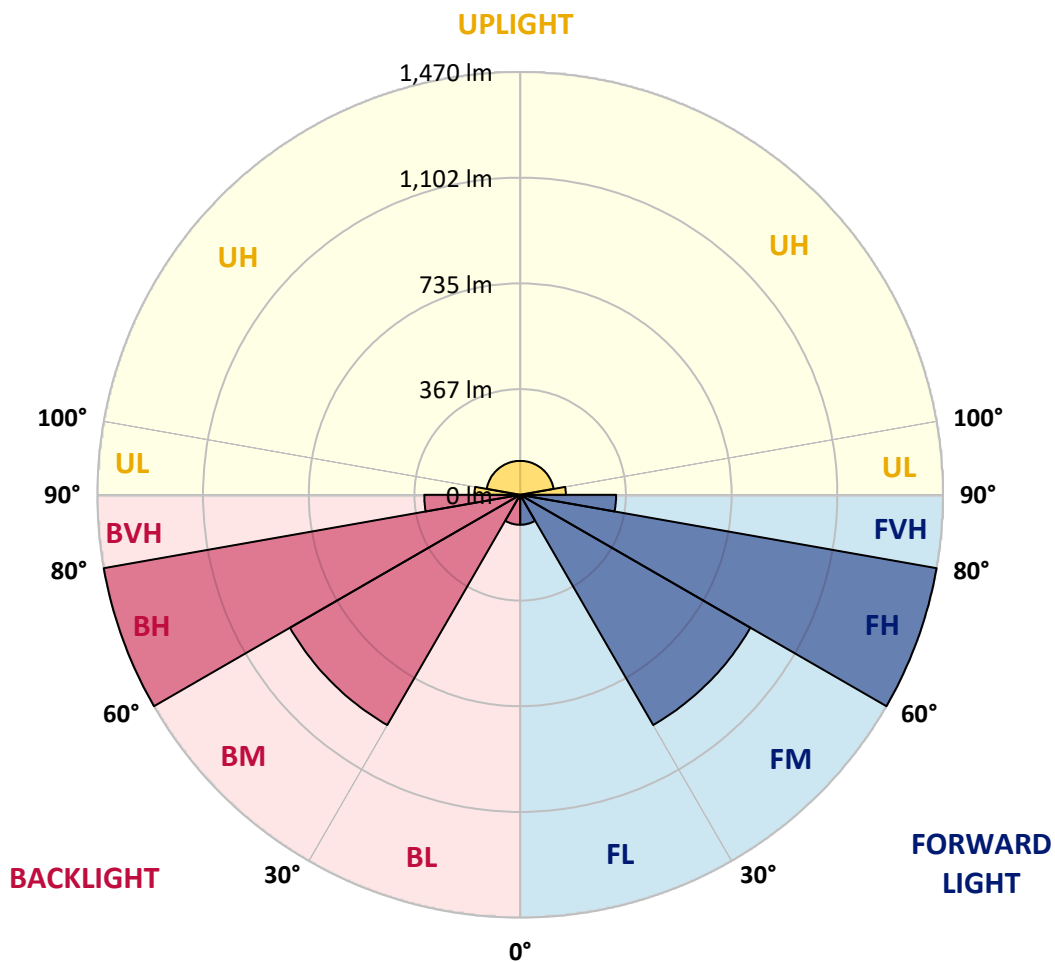
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|--------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 104.1 | 1.8 | | | |
| FM | (30°-60°) | 924.2 | 15.7 | | | |
| FH | (60°-80°) | 1469.9 | 24.9 | | | G1/1800 |
| FVH | (80°-90°) | 333.5 | 5.7 | | | G3/500 |
| BL | (0°-30°) | 104.1 | 1.8 | B0/110 | | |
| BM | (30°-60°) | 924.2 | 15.7 | B1/1000 | | |
| BH | (60°-80°) | 1469.9 | 24.9 | B3/2500 | | G1/1800 |
| BVH | (80°-90°) | 333.5 | 5.7 | | | G3/500 |
| UL | (90°-100°) | 158.7 | 2.7 | | U3/500 | |
| UH | (100°-180°) | 118.0 | 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° | 112.5 | 112.5 | 112.5 | 112.5 | 112.5 | 112.5 | 112.5 | 112.5 | 112.5 | 112.5 | 112.5 |
| 2.5° | 114.5 | 114.5 | 114.5 | 114.5 | 114.5 | 115.1 | 114.5 | 114.5 | 114.5 | 114.5 | 114.5 |
| 5° | 119.1 | 119.1 | 119.1 | 119.8 | 119.8 | 119.8 | 119.8 | 119.8 | 119.8 | 120.4 | 119.8 |
| 7.5° | 127.7 | 127.7 | 127.7 | 127.7 | 127.7 | 127.7 | 128.4 | 129.0 | 129.0 | 129.7 | 129.7 |
| 10° | 141.0 | 141.0 | 140.2 | 140.2 | 140.2 | 141.0 | 141.0 | 142.3 | 142.9 | 144.8 | 144.2 |
| 12.5° | 161.4 | 161.4 | 160.1 | 158.8 | 158.1 | 157.4 | 158.8 | 161.4 | 163.5 | 166.7 | 166.0 |
| 15° | 184.5 | 184.5 | 183.3 | 181.3 | 180.7 | 179.9 | 180.7 | 183.9 | 187.2 | 190.6 | 189.9 |
| 17.5° | 210.4 | 209.7 | 208.4 | 205.7 | 205.7 | 205.1 | 205.1 | 208.4 | 212.4 | 217.0 | 217.0 |
| 20° | 238.9 | 237.5 | 235.6 | 232.2 | 232.2 | 231.6 | 232.2 | 234.9 | 240.8 | 246.1 | 246.1 |
| 22.5° | 271.3 | 270.0 | 267.3 | 264.0 | 262.0 | 260.6 | 261.4 | 265.4 | 272.6 | 279.9 | 280.5 |
| 25° | 307.6 | 305.7 | 303.0 | 299.0 | 293.8 | 291.1 | 292.5 | 299.0 | 308.3 | 317.6 | 315.6 |
| 27.5° | 346.1 | 345.3 | 341.4 | 335.4 | 327.5 | 323.6 | 326.8 | 334.8 | 346.1 | 356.0 | 356.6 |
| 30° | 391.0 | 389.0 | 383.7 | 374.5 | 365.9 | 357.9 | 361.2 | 371.8 | 387.1 | 400.3 | 400.9 |
| 32.5° | 438.0 | 437.3 | 431.4 | 418.2 | 403.6 | 396.3 | 399.7 | 414.8 | 432.7 | 445.9 | 448.6 |
| 35° | 492.2 | 490.9 | 484.3 | 467.1 | 448.6 | 438.6 | 441.9 | 460.5 | 482.3 | 498.9 | 500.2 |
| 37.5° | 551.8 | 548.5 | 540.5 | 520.1 | 496.2 | 484.3 | 487.6 | 508.8 | 535.2 | 551.8 | 555.8 |
| 40° | 613.4 | 612.6 | 603.4 | 579.6 | 550.4 | 533.9 | 539.2 | 563.0 | 593.5 | 612.0 | 614.7 |
| 42.5° | 684.8 | 683.4 | 674.2 | 646.4 | 610.7 | 591.5 | 597.4 | 625.8 | 659.0 | 677.5 | 680.8 |
| 45° | 760.2 | 761.5 | 748.9 | 721.8 | 680.2 | 658.3 | 662.3 | 694.7 | 731.1 | 754.2 | 756.9 |
| 47.5° | 847.5 | 845.6 | 838.3 | 804.6 | 756.9 | 731.7 | 736.4 | 772.1 | 815.1 | 837.0 | 838.3 |
| 50° | 939.5 | 937.5 | 934.9 | 899.8 | 844.9 | 819.1 | 821.7 | 860.8 | 904.4 | 926.9 | 932.9 |
| 52.5° | 1042.1 | 1042.7 | 1044.0 | 1005.7 | 944.1 | 909.1 | 915.0 | 959.3 | 1005.7 | 1026.1 | 1031.4 |
| 55° | 1155.8 | 1156.5 | 1159.1 | 1120.1 | 1050.7 | 1011.6 | 1018.9 | 1067.9 | 1117.5 | 1138.0 | 1140.0 |
| 57.5° | 1282.2 | 1278.9 | 1289.5 | 1243.2 | 1167.1 | 1122.1 | 1130.1 | 1181.0 | 1233.9 | 1253.7 | 1257.7 |
| 60° | 1408.6 | 1404.0 | 1418.5 | 1372.2 | 1284.8 | 1235.9 | 1239.9 | 1299.5 | 1356.3 | 1368.9 | 1377.5 |
| 62.5° | 1515.8 | 1520.4 | 1539.5 | 1492.6 | 1396.0 | 1336.5 | 1343.1 | 1403.3 | 1466.8 | 1479.4 | 1481.3 |
| 65° | 1599.8 | 1606.4 | 1634.9 | 1585.9 | 1489.9 | 1418.5 | 1427.7 | 1489.9 | 1555.5 | 1561.4 | 1560.1 |
| 67.5° | 1644.1 | 1650.1 | 1682.4 | 1642.1 | 1544.9 | 1474.8 | 1480.0 | 1540.3 | 1595.8 | 1601.7 | 1595.8 |
| 68° | 1645.4 | 1652.1 | 1686.4 | 1648.1 | 1552.1 | 1482.7 | 1486.0 | 1544.9 | 1598.5 | 1603.8 | 1597.8 |
| 70° | 1625.6 | 1641.4 | 1677.2 | 1648.8 | 1558.8 | 1493.9 | 1494.6 | 1542.2 | 1593.1 | 1589.3 | 1583.9 |
| 72.5° | 1548.8 | 1562.8 | 1613.0 | 1601.1 | 1525.7 | 1470.1 | 1462.2 | 1495.2 | 1525.0 | 1513.8 | 1510.5 |
| 75° | 1392.7 | 1405.9 | 1470.8 | 1484.0 | 1441.6 | 1401.3 | 1382.1 | 1392.7 | 1392.0 | 1371.6 | 1363.6 |
| 77.5° | 1166.5 | 1185.0 | 1256.4 | 1305.4 | 1291.5 | 1274.9 | 1242.5 | 1226.6 | 1196.9 | 1155.2 | 1141.9 |
| 80° | 906.4 | 925.0 | 1002.4 | 1070.5 | 1098.2 | 1100.3 | 1070.5 | 1017.5 | 958.0 | 901.1 | 889.9 |
| 82.5° | 672.2 | 691.4 | 756.3 | 840.9 | 877.3 | 898.5 | 865.4 | 797.3 | 730.4 | 667.6 | 656.3 |
| 85° | 469.7 | 483.7 | 549.1 | 618.0 | 670.9 | 694.1 | 657.7 | 599.4 | 531.9 | 477.7 | 467.1 |
| 87.5° | 320.2 | 328.2 | 379.7 | 448.6 | 498.2 | 520.7 | 489.6 | 432.7 | 370.5 | 320.9 | 309.6 |
| 90° | 203.2 | 208.4 | 246.7 | 304.3 | 354.7 | 374.5 | 350.0 | 300.3 | 243.5 | 203.2 | 195.8 |
| 92.5° | 124.4 | 127.1 | 155.5 | 201.8 | 244.2 | 266.6 | 244.8 | 200.5 | 154.2 | 125.0 | 121.1 |
| 95° | 81.4 | 83.4 | 99.9 | 129.7 | 164.7 | 181.3 | 166.7 | 133.6 | 102.5 | 83.4 | 80.7 |
| 97.5° | 60.3 | 61.5 | 71.5 | 87.4 | 108.5 | 121.1 | 111.2 | 91.3 | 73.4 | 61.5 | 59.5 |
| 100° | 47.0 | 47.7 | 54.2 | 64.1 | 76.1 | 83.4 | 78.1 | 66.8 | 55.5 | 47.0 | 46.3 |
| 102.5° | 37.7 | 37.7 | 43.7 | 50.9 | 58.2 | 62.2 | 58.9 | 52.9 | 43.7 | 37.0 | 36.4 |
| 105° | 29.8 | 30.5 | 35.1 | 41.6 | 47.0 | 49.6 | 47.7 | 43.0 | 35.1 | 29.2 | 28.4 |
| 107.5° | 23.8 | 23.8 | 28.4 | 34.4 | 39.7 | 41.6 | 39.7 | 35.7 | 27.8 | 23.1 | 22.5 |



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CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|--------|------|------|------|------|------|------|------|------|------|------|------|
| 110° | 18.5 | 19.2 | 22.5 | 28.4 | 33.0 | 35.1 | 33.0 | 29.2 | 22.5 | 18.5 | 17.9 |
| 112.5° | 15.2 | 15.2 | 17.9 | 23.1 | 27.8 | 29.2 | 27.8 | 23.1 | 17.9 | 14.5 | 14.5 |
| 115° | 12.6 | 12.6 | 14.5 | 19.2 | 23.1 | 24.4 | 23.1 | 19.2 | 14.5 | 11.9 | 11.9 |
| 117.5° | 10.5 | 11.3 | 12.6 | 15.9 | 19.2 | 19.8 | 19.2 | 15.9 | 11.9 | 10.5 | 9.9 |
| 120° | 9.3 | 9.9 | 10.5 | 13.2 | 15.9 | 16.6 | 15.2 | 12.6 | 9.9 | 9.3 | 8.6 |
| 122.5° | 8.6 | 8.6 | 9.3 | 10.5 | 13.2 | 13.9 | 12.6 | 10.5 | 8.6 | 8.0 | 8.0 |
| 125° | 8.0 | 8.0 | 8.0 | 9.3 | 10.5 | 11.3 | 10.5 | 8.6 | 7.3 | 7.3 | 7.3 |
| 127.5° | 7.3 | 7.3 | 7.3 | 8.0 | 9.3 | 9.3 | 8.6 | 7.3 | 6.6 | 6.6 | 6.6 |
| 130° | 6.6 | 6.6 | 6.6 | 6.6 | 7.3 | 8.0 | 7.3 | 6.6 | 5.9 | 5.9 | 5.9 |
| 132.5° | 5.9 | 5.9 | 5.9 | 5.9 | 5.9 | 6.6 | 5.9 | 5.3 | 5.3 | 5.3 | 5.3 |
| 135° | 5.3 | 5.3 | 5.3 | 5.3 | 5.3 | 5.3 | 5.3 | 4.6 | 4.6 | 4.6 | 4.6 |
| 137.5° | 4.6 | 4.6 | 4.6 | 4.6 | 4.6 | 4.6 | 4.0 | 4.0 | 4.0 | 4.6 | 4.6 |
| 140° | 4.0 | 4.0 | 4.0 | 4.0 | 3.3 | 3.3 | 3.3 | 3.3 | 4.0 | 4.0 | 4.0 |
| 142.5° | 4.0 | 4.0 | 3.3 | 3.3 | 2.7 | 2.7 | 2.7 | 2.7 | 3.3 | 3.3 | 3.3 |
| 145° | 3.3 | 3.3 | 2.7 | 2.7 | 2.7 | 1.9 | 1.9 | 2.7 | 2.7 | 2.7 | 2.7 |
| 147.5° | 2.7 | 2.7 | 2.7 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 |
| 150° | 1.9 | 1.9 | 1.9 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.9 | 1.9 |
| 152.5° | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 0.6 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 |
| 155° | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 |
| 157.5° | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 |
| 160° | 0.0 | 0.0 | 0.0 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.0 | 0.0 | 0.0 |
| 162.5° | 0.0 | 0.0 | 0.0 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 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)