

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: P416892

Luminaire Tested: **LXF.LXT-PA1-80-827-U-5WQ-A**

Issue Date: 10/26/2020

Test Information

Test Method: LM-79-08
Report Number: P416892
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-PA1-80-827-U-5WQ-A
Description: DECORATIVE POST TOP LUMINAIRE
(1) 80 CRI, 2700K, 1050mA 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: 6745 lumens
Efficiency: N/A
Efficacy: 81.3 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): 83
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

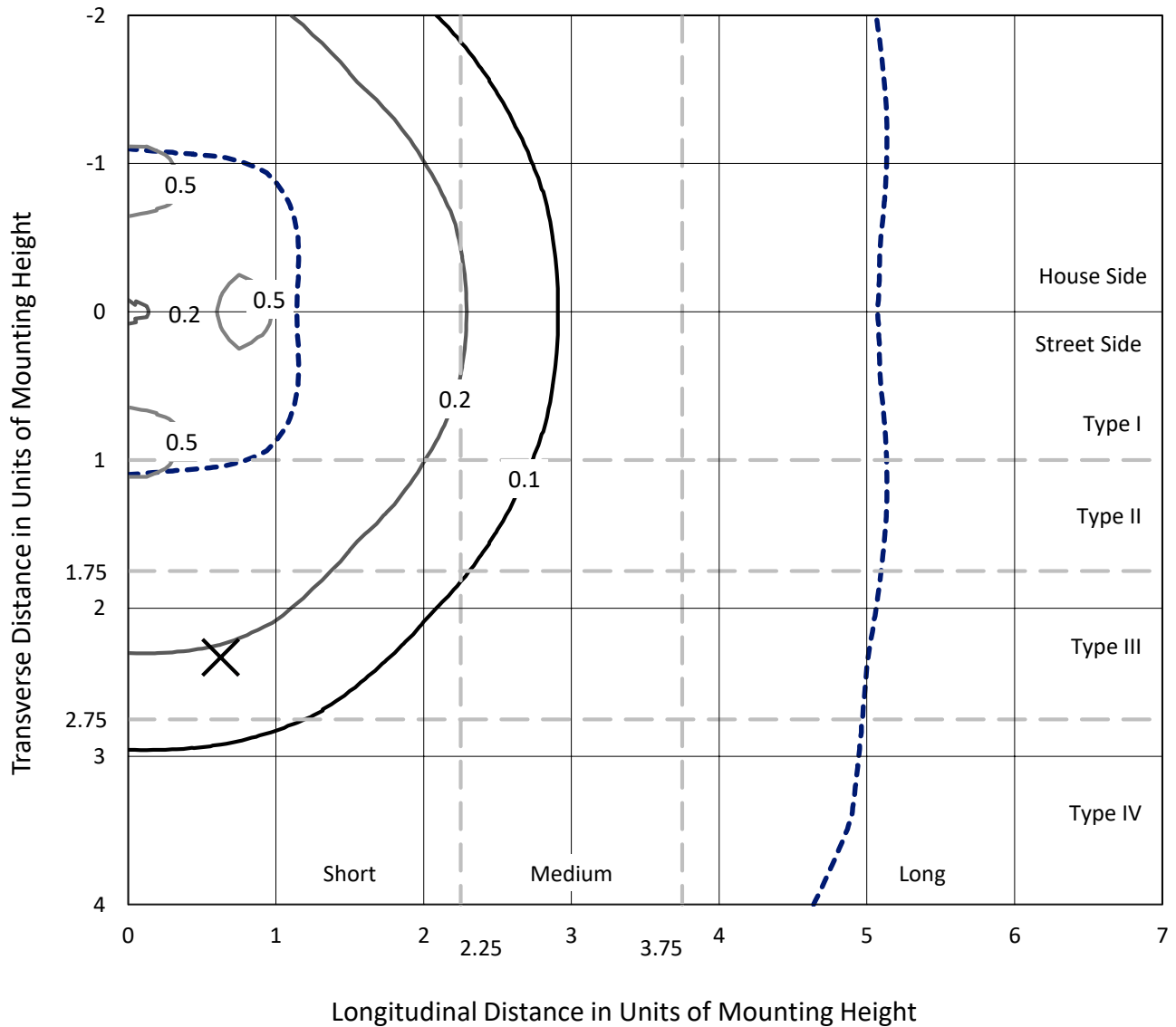


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

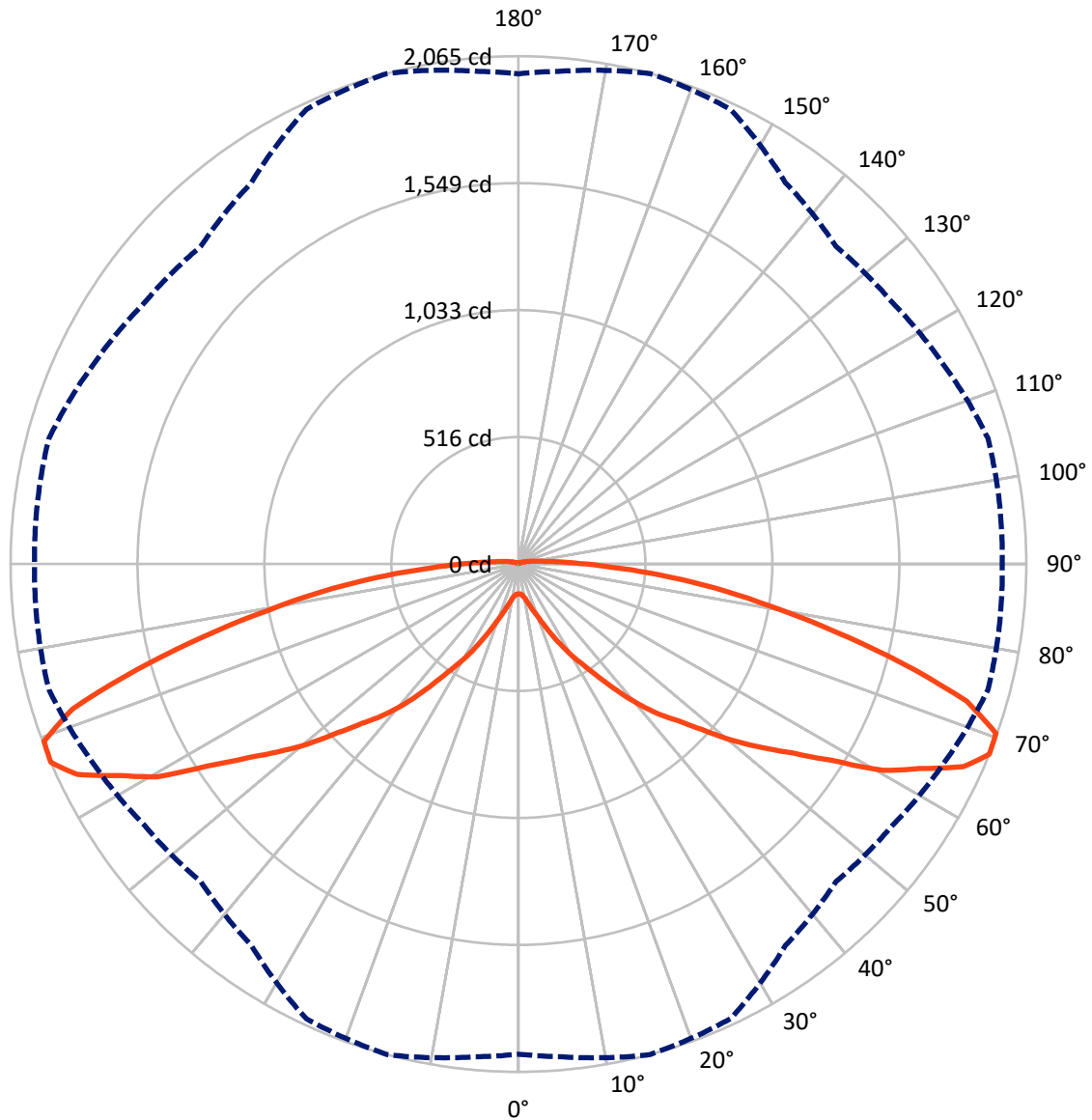


Based on 25 foot mounting height. Maximum calculated value = 0.6 fc
 Type V - Short - Non-Cutoff

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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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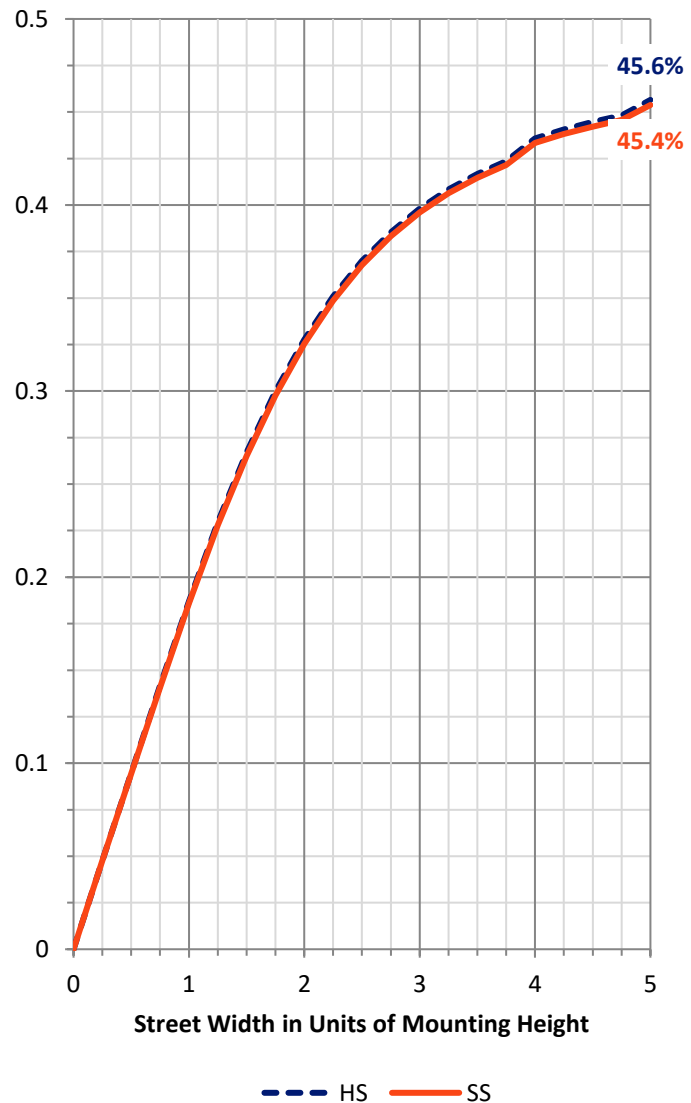
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 3239.4 | 133.1 | 3372.5 |
| | % Fixture | 48.0 | 2.0 | 50.0 |
| Street Side | Lumens | 3239.4 | 133.1 | 3372.5 |
| | % Fixture | 48.0 | 2.0 | 50.0 |
| Total | Lumens | 6478.8 | 266.2 | 6745.0 |
| | % Fixture | 96.1 | 3.9 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 12.3 | 0.2 |
| 10°-20° | 50.4 | 0.7 |
| 20°-30° | 145.2 | 2.2 |
| 30°-40° | 342.0 | 5.1 |
| 40°-50° | 644.6 | 9.6 |
| 50°-60° | 1149.7 | 17.0 |
| 60°-70° | 1817.6 | 26.9 |
| 70°-80° | 1601.4 | 23.7 |
| 80°-90° | 715.7 | 10.6 |
| 90°-100° | 177.7 | 2.6 |
| 100°-110° | 49.0 | 0.7 |
| 110°-120° | 19.6 | 0.3 |
| 120°-130° | 10.4 | 0.2 |
| 130°-140° | 6.1 | 0.1 |
| 140°-150° | 2.6 | 0.0 |
| 150°-160° | 0.7 | 0.0 |
| 160°-170° | 0.0 | 0.0 |
| 170°-180° | 0.0 | 0.0 |
| 0°-90° | 6478.8 | 96.1 |
| 0°-180° | 6745.0 | 100.0 |



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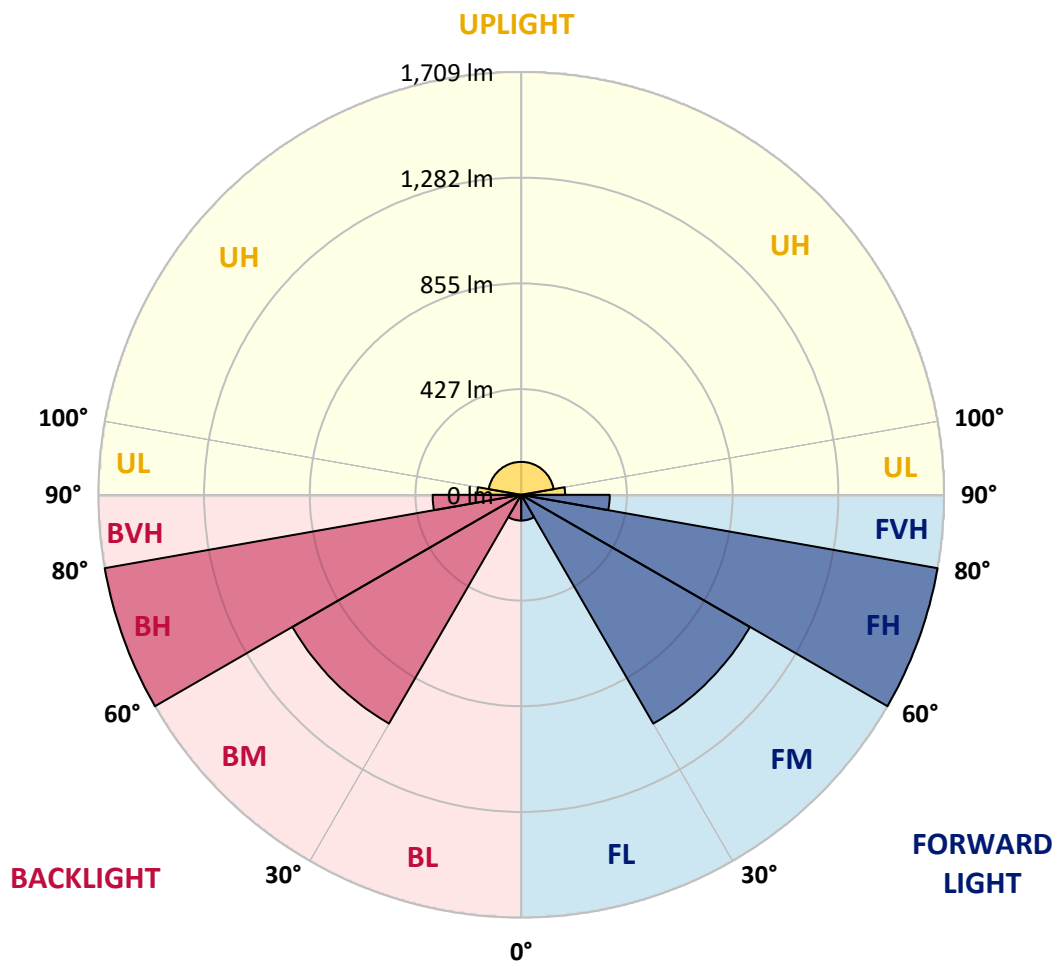
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|--------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 103.9 | 1.5 | | | |
| FM | (30°-60°) | 1068.1 | 15.8 | | | |
| FH | (60°-80°) | 1709.5 | 25.3 | | | G1/1800 |
| FVH | (80°-90°) | 357.9 | 5.3 | | | G3/500 |
| BL | (0°-30°) | 103.9 | 1.5 | B0/110 | | |
| BM | (30°-60°) | 1068.1 | 15.8 | B2/2500 | | |
| BH | (60°-80°) | 1709.5 | 25.3 | B3/2500 | | G1/1800 |
| BVH | (80°-90°) | 357.9 | 5.3 | | | G3/500 |
| UL | (90°-100°) | 177.7 | 2.6 | | U3/500 | |
| UH | (100°-180°) | 133.1 | 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° | 121.3 | 121.3 | 121.3 | 121.3 | 121.3 | 121.3 | 121.3 | 121.3 | 121.3 | 121.3 | 121.3 |
| 2.5° | 121.3 | 121.3 | 122.0 | 122.0 | 122.8 | 123.5 | 122.8 | 122.0 | 121.3 | 120.6 | 120.6 |
| 5° | 125.0 | 125.0 | 125.0 | 125.0 | 125.7 | 125.7 | 125.0 | 123.5 | 122.8 | 122.0 | 122.0 |
| 7.5° | 130.9 | 130.9 | 130.9 | 130.9 | 130.9 | 130.1 | 128.7 | 127.2 | 126.5 | 125.7 | 125.7 |
| 10° | 140.4 | 140.4 | 138.9 | 138.9 | 138.2 | 137.5 | 136.0 | 134.5 | 133.1 | 133.8 | 133.8 |
| 12.5° | 156.6 | 157.3 | 155.1 | 151.4 | 148.5 | 147.0 | 146.3 | 146.3 | 148.5 | 148.5 | 149.2 |
| 15° | 180.1 | 180.1 | 176.4 | 171.3 | 165.4 | 161.0 | 162.5 | 166.2 | 169.8 | 172.0 | 172.0 |
| 17.5° | 205.9 | 205.9 | 202.2 | 195.6 | 187.5 | 185.3 | 184.5 | 188.2 | 196.3 | 199.2 | 200.0 |
| 20° | 238.2 | 238.2 | 231.6 | 222.0 | 214.7 | 211.7 | 211.7 | 217.6 | 226.4 | 233.1 | 232.3 |
| 22.5° | 282.3 | 281.6 | 272.0 | 255.8 | 246.3 | 241.9 | 241.1 | 249.2 | 264.7 | 275.0 | 277.9 |
| 25° | 335.2 | 334.5 | 322.0 | 300.7 | 286.0 | 274.2 | 277.2 | 291.1 | 314.7 | 330.8 | 330.8 |
| 27.5° | 395.5 | 392.6 | 376.4 | 352.9 | 330.8 | 315.4 | 319.8 | 339.7 | 369.1 | 391.1 | 391.9 |
| 30° | 454.3 | 454.3 | 436.7 | 408.8 | 379.4 | 360.2 | 365.4 | 393.3 | 428.6 | 463.2 | 463.9 |
| 32.5° | 516.8 | 516.1 | 494.0 | 466.1 | 430.1 | 408.8 | 416.8 | 451.4 | 501.4 | 541.1 | 548.4 |
| 35° | 597.0 | 597.7 | 566.8 | 528.6 | 483.0 | 459.5 | 470.5 | 515.4 | 574.9 | 622.7 | 627.1 |
| 37.5° | 683.0 | 687.4 | 653.6 | 604.3 | 543.3 | 514.6 | 530.8 | 583.0 | 652.1 | 702.1 | 702.1 |
| 40° | 775.6 | 777.8 | 746.9 | 684.5 | 610.9 | 573.4 | 594.8 | 650.6 | 703.6 | 746.2 | 748.4 |
| 42.5° | 854.3 | 856.5 | 832.2 | 771.2 | 688.9 | 644.0 | 656.5 | 699.2 | 749.1 | 796.9 | 801.3 |
| 45° | 916.0 | 923.4 | 908.7 | 856.5 | 772.7 | 718.3 | 716.8 | 760.2 | 820.5 | 870.5 | 876.3 |
| 47.5° | 1027.8 | 1031.5 | 1005.7 | 944.0 | 858.7 | 799.1 | 793.3 | 836.6 | 915.3 | 969.0 | 972.6 |
| 50° | 1126.3 | 1137.3 | 1127.8 | 1061.6 | 960.1 | 888.1 | 888.8 | 946.2 | 1031.5 | 1085.9 | 1091.0 |
| 52.5° | 1237.3 | 1242.5 | 1239.5 | 1182.9 | 1084.4 | 999.1 | 1008.7 | 1073.4 | 1165.3 | 1199.1 | 1205.0 |
| 55° | 1338.8 | 1346.8 | 1357.1 | 1315.2 | 1217.5 | 1142.5 | 1151.3 | 1220.4 | 1282.2 | 1314.5 | 1317.4 |
| 57.5° | 1499.8 | 1507.9 | 1507.1 | 1445.4 | 1361.6 | 1288.8 | 1303.5 | 1357.9 | 1438.7 | 1493.9 | 1503.4 |
| 60° | 1674.7 | 1686.5 | 1704.9 | 1624.7 | 1499.0 | 1448.3 | 1466.7 | 1545.3 | 1637.2 | 1645.3 | 1655.6 |
| 62.5° | 1791.6 | 1797.5 | 1832.1 | 1805.6 | 1659.3 | 1598.3 | 1646.8 | 1713.7 | 1761.5 | 1768.8 | 1765.9 |
| 65° | 1944.5 | 1963.7 | 1987.9 | 1926.9 | 1809.3 | 1725.5 | 1781.3 | 1831.3 | 1917.3 | 1924.7 | 1923.2 |
| 67.5° | 1993.1 | 2011.5 | 2065.1 | 2040.1 | 1893.1 | 1826.2 | 1854.9 | 1910.0 | 1976.2 | 1970.3 | 1967.3 |
| 70° | 1996.7 | 2014.4 | 2060.0 | 2046.7 | 1912.2 | 1819.6 | 1849.0 | 1870.3 | 1931.3 | 1932.1 | 1924.0 |
| 72.5° | 1796.8 | 1827.7 | 1905.6 | 1929.1 | 1811.5 | 1716.6 | 1718.8 | 1718.1 | 1722.5 | 1674.0 | 1654.9 |
| 75° | 1513.7 | 1535.8 | 1612.2 | 1668.9 | 1608.6 | 1527.0 | 1525.5 | 1463.7 | 1450.5 | 1413.7 | 1400.5 |
| 77.5° | 1212.3 | 1239.5 | 1313.0 | 1374.8 | 1353.5 | 1309.4 | 1286.6 | 1216.7 | 1197.6 | 1155.7 | 1160.8 |
| 80° | 942.5 | 963.8 | 1036.6 | 1116.7 | 1122.6 | 1091.7 | 1066.7 | 1009.4 | 971.9 | 936.6 | 921.2 |
| 82.5° | 725.6 | 744.0 | 806.5 | 893.2 | 929.3 | 925.6 | 890.3 | 825.6 | 791.8 | 758.0 | 738.1 |
| 85° | 501.4 | 517.6 | 579.3 | 684.5 | 749.1 | 771.9 | 732.2 | 650.6 | 590.3 | 542.6 | 531.5 |
| 87.5° | 323.5 | 330.8 | 380.1 | 471.2 | 568.3 | 622.0 | 580.1 | 477.9 | 402.1 | 363.9 | 351.4 |
| 90° | 202.2 | 213.2 | 248.5 | 305.1 | 399.9 | 468.3 | 425.7 | 322.0 | 267.6 | 228.6 | 220.6 |
| 92.5° | 140.4 | 138.9 | 163.2 | 202.9 | 272.8 | 328.6 | 291.9 | 213.2 | 169.1 | 143.4 | 138.2 |
| 95° | 92.6 | 96.3 | 109.5 | 134.5 | 184.5 | 219.1 | 192.6 | 141.9 | 111.0 | 92.6 | 90.4 |
| 97.5° | 69.1 | 69.8 | 80.1 | 95.6 | 125.7 | 144.1 | 127.9 | 98.5 | 78.7 | 66.9 | 66.2 |
| 100° | 54.4 | 55.1 | 62.5 | 71.3 | 88.2 | 100.0 | 89.7 | 74.3 | 61.0 | 52.2 | 52.2 |
| 102.5° | 42.6 | 43.4 | 48.5 | 55.9 | 66.9 | 74.3 | 68.4 | 57.3 | 47.8 | 41.2 | 40.4 |
| 105° | 33.8 | 33.8 | 38.2 | 44.1 | 52.2 | 57.3 | 53.7 | 44.8 | 36.8 | 32.3 | 32.3 |
| 107.5° | 26.5 | 27.2 | 30.1 | 34.6 | 41.9 | 47.1 | 42.6 | 34.6 | 28.7 | 25.0 | 25.0 |
| 110° | 21.3 | 21.3 | 23.5 | 27.9 | 33.8 | 38.2 | 34.6 | 27.9 | 22.8 | 20.6 | 20.6 |



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CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|--------|------|------|------|------|------|------|------|------|------|------|------|
| 112.5° | 17.6 | 17.6 | 19.1 | 22.8 | 27.9 | 31.6 | 27.9 | 22.8 | 18.4 | 16.9 | 16.9 |
| 115° | 14.7 | 14.7 | 16.2 | 18.4 | 23.5 | 25.7 | 23.5 | 18.4 | 15.4 | 14.0 | 14.0 |
| 117.5° | 13.2 | 13.2 | 14.0 | 16.2 | 19.8 | 21.3 | 19.8 | 15.4 | 13.2 | 12.5 | 12.5 |
| 120° | 11.8 | 11.8 | 12.5 | 14.0 | 16.9 | 18.4 | 16.9 | 14.0 | 11.8 | 11.0 | 11.0 |
| 122.5° | 11.0 | 11.0 | 11.0 | 12.5 | 15.4 | 16.2 | 14.7 | 12.5 | 10.3 | 10.3 | 10.3 |
| 125° | 10.3 | 10.3 | 10.3 | 11.0 | 13.2 | 14.0 | 13.2 | 11.0 | 9.6 | 9.6 | 9.6 |
| 127.5° | 9.6 | 9.6 | 9.6 | 10.3 | 11.8 | 12.5 | 11.8 | 10.3 | 8.8 | 8.8 | 8.8 |
| 130° | 9.6 | 9.6 | 8.8 | 9.6 | 10.3 | 11.0 | 10.3 | 9.6 | 8.8 | 8.1 | 8.8 |
| 132.5° | 8.8 | 8.8 | 8.8 | 8.8 | 9.6 | 9.6 | 9.6 | 8.8 | 8.1 | 8.1 | 8.1 |
| 135° | 8.1 | 8.1 | 7.4 | 7.4 | 8.1 | 8.8 | 8.1 | 7.4 | 7.4 | 7.4 | 7.4 |
| 137.5° | 7.4 | 6.6 | 6.6 | 6.6 | 7.4 | 7.4 | 7.4 | 6.6 | 6.6 | 6.6 | 6.6 |
| 140° | 5.9 | 5.9 | 5.9 | 5.9 | 5.9 | 6.6 | 5.9 | 5.1 | 5.1 | 5.9 | 5.9 |
| 142.5° | 5.1 | 5.1 | 5.1 | 4.4 | 5.1 | 5.1 | 5.1 | 4.4 | 4.4 | 4.4 | 4.4 |
| 145° | 4.4 | 4.4 | 4.4 | 3.7 | 4.4 | 4.4 | 4.4 | 3.7 | 3.7 | 3.7 | 3.7 |
| 147.5° | 2.9 | 3.7 | 2.9 | 2.9 | 3.7 | 3.7 | 2.9 | 2.9 | 2.9 | 2.9 | 2.9 |
| 150° | 2.2 | 2.2 | 2.2 | 2.2 | 2.9 | 2.9 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 |
| 152.5° | 1.5 | 1.5 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 1.5 | 1.5 | 1.5 |
| 155° | 1.5 | 1.5 | 1.5 | 1.5 | 2.2 | 2.2 | 1.5 | 1.5 | 1.5 | 0.7 | 0.7 |
| 157.5° | 0.7 | 0.7 | 0.7 | 0.7 | 1.5 | 2.2 | 1.5 | 0.7 | 0.7 | 0.7 | 0.7 |
| 160° | 0.0 | 0.0 | 0.0 | 0.7 | 1.5 | 2.2 | 1.5 | 0.7 | 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)