

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: P414627

Luminaire Tested: **LXF.LXT-PA1-30-730-U-T2R**

Issue Date: 10/26/2020

Test Information

Test Method: LM-79-08
Report Number: P414627
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1909-505-1)
Test Lab: INNOVATION CENTER
Issue Date: 10/26/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: LXF.LXT-PA1-30-730-U-T2R
Description: DECORATIVE POST TOP LUMINAIRE
(1) 70 CRI, 3000K, 375mA LIGHT ENGINE WITH 24 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3510 lumens
Efficiency: N/A
Efficacy: 113.2 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 1.17' x H: 0')
IES Classification: Type II - Medium - Non-Cutoff
BUG Rating: B1 - U0 - G1

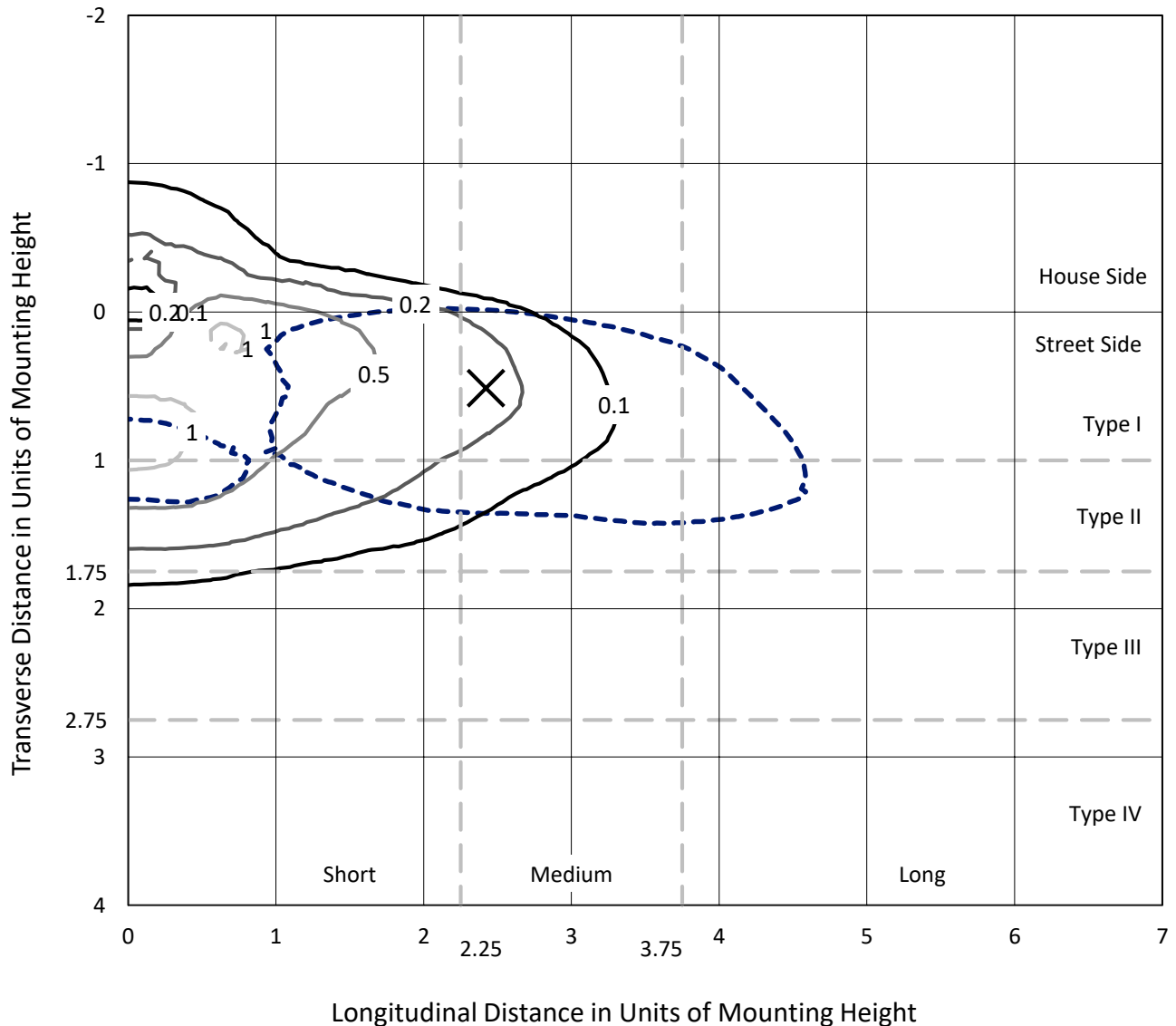
Input Watts (W): 31
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

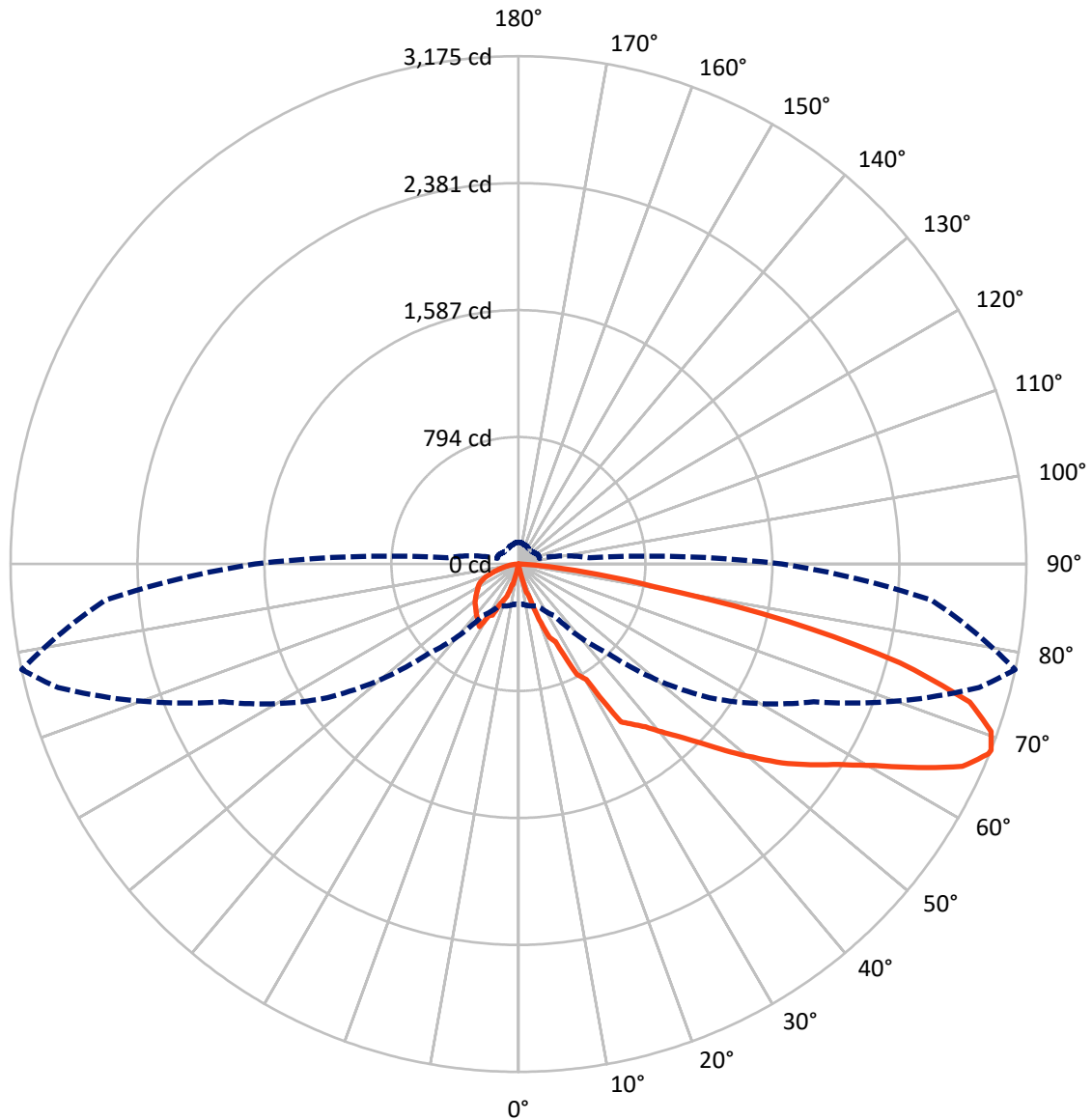
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.4 fc
 Type II - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral - - - Horizontal Cone Through 68-Deg Vertical

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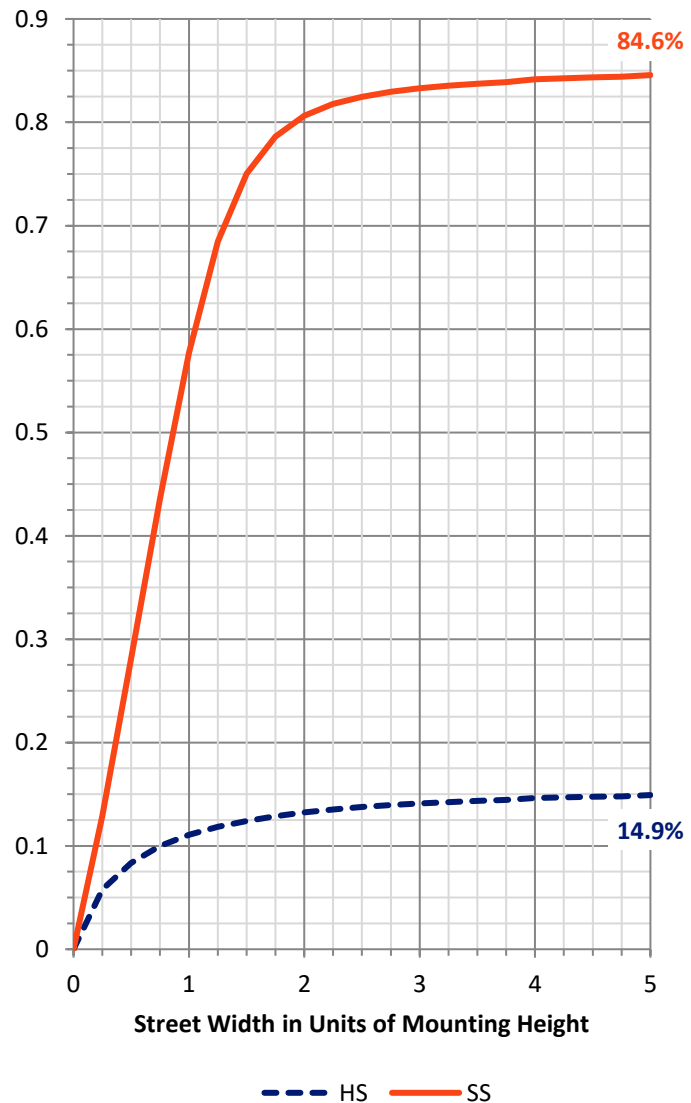
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 532.9 | 0.0 | 532.9 |
| | % Fixture | 15.2 | 0.0 | 15.2 |
| Street Side | Lumens | 2977.1 | 0.0 | 2977.1 |
| | % Fixture | 84.8 | 0.0 | 84.8 |
| Total | Lumens | 3510.0 | 0.0 | 3510.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 3.5 | 0.1 |
| 10°-20° | 50.9 | 1.4 |
| 20°-30° | 193.7 | 5.5 |
| 30°-40° | 452.2 | 12.9 |
| 40°-50° | 706.0 | 20.1 |
| 50°-60° | 810.4 | 23.1 |
| 60°-70° | 753.0 | 21.5 |
| 70°-80° | 465.3 | 13.3 |
| 80°-90° | 74.9 | 2.1 |
| 90°-100° | 0.0 | 0.0 |
| 100°-110° | 0.0 | 0.0 |
| 110°-120° | 0.0 | 0.0 |
| 120°-130° | 0.0 | 0.0 |
| 130°-140° | 0.0 | 0.0 |
| 140°-150° | 0.0 | 0.0 |
| 150°-160° | 0.0 | 0.0 |
| 160°-170° | 0.0 | 0.0 |
| 170°-180° | 0.0 | 0.0 |
| 0°-90° | 3510.0 | 100.0 |
| 0°-180° | 3510.0 | 100.0 |



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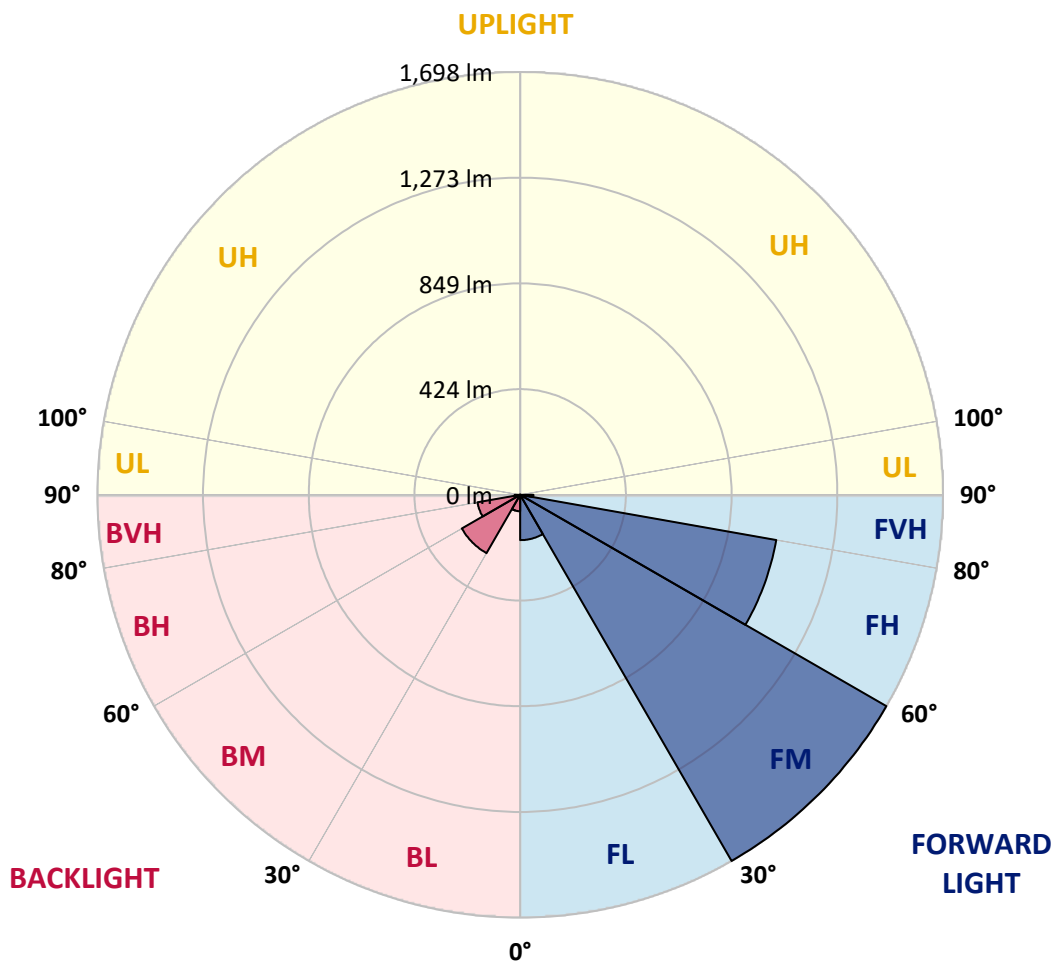
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 182.0 | 5.2 | | | |
| FM (30°-60°) | 1697.9 | 48.4 | | | |
| FH (60°-80°) | 1044.2 | 29.7 | | | G1/1800 |
| FVH (80°-90°) | 53.0 | 1.5 | | | G1/100 |
| BL (0°-30°) | 66.0 | 1.9 | B0/110 | | |
| BM (30°-60°) | 270.8 | 7.7 | B1/1000 | | |
| BH (60°-80°) | 174.2 | 5.0 | B1/500 | | G1/500 |
| BVH (80°-90°) | 21.9 | 0.6 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G1

Type II Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 78° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 |
| 2.5° | 2.7 | 2.7 | 3.1 | 3.5 | 4.2 | 3.9 | 2.7 | 1.9 | 1.5 | 1.5 | 1.5 |
| 5° | 124.4 | 114.4 | 63.9 | 33.1 | 11.6 | 6.9 | 3.5 | 2.7 | 1.9 | 1.9 | 1.5 |
| 7.5° | 140.6 | 139.8 | 138.6 | 137.5 | 135.6 | 128.2 | 13.5 | 3.9 | 2.3 | 2.3 | 1.5 |
| 10° | 151.7 | 150.6 | 149.8 | 149.0 | 146.3 | 142.5 | 135.9 | 11.9 | 4.2 | 3.9 | 3.5 |
| 12.5° | 294.6 | 293.8 | 292.7 | 187.2 | 158.7 | 154.4 | 148.6 | 106.3 | 12.3 | 18.5 | 55.8 |
| 15° | 293.8 | 292.7 | 296.1 | 302.3 | 307.3 | 169.1 | 170.6 | 298.4 | 184.8 | 177.5 | 189.1 |
| 17.5° | 306.5 | 305.0 | 301.1 | 305.4 | 314.6 | 353.5 | 334.3 | 323.1 | 217.6 | 207.6 | 201.8 |
| 20° | 449.4 | 449.4 | 454.0 | 450.2 | 326.6 | 451.7 | 427.8 | 347.0 | 393.2 | 369.7 | 343.9 |
| 22.5° | 475.6 | 473.7 | 474.4 | 482.1 | 566.8 | 468.3 | 472.1 | 535.3 | 546.4 | 499.1 | 427.8 |
| 25° | 676.2 | 675.8 | 649.3 | 509.5 | 597.7 | 564.5 | 652.3 | 572.6 | 592.6 | 536.8 | 524.9 |
| 27.5° | 760.9 | 761.7 | 740.1 | 720.9 | 631.5 | 732.1 | 692.4 | 754.0 | 841.8 | 782.1 | 672.4 |
| 30° | 1023.9 | 1013.9 | 844.5 | 825.6 | 772.9 | 771.7 | 838.3 | 890.3 | 865.7 | 837.6 | 750.9 |
| 32.5° | 1216.9 | 1206.9 | 1169.5 | 1039.0 | 918.8 | 859.5 | 963.1 | 931.5 | 1129.5 | 1175.7 | 1018.2 |
| 35° | 1515.3 | 1511.9 | 1313.5 | 1178.8 | 1079.0 | 1039.4 | 1012.0 | 1134.9 | 1222.7 | 1229.6 | 1084.4 |
| 37.5° | 1744.4 | 1733.3 | 1617.0 | 1379.4 | 1214.6 | 1122.9 | 1188.0 | 1189.9 | 1324.7 | 1292.0 | 1188.0 |
| 40° | 1849.2 | 1842.3 | 1752.9 | 1530.0 | 1339.3 | 1235.7 | 1261.9 | 1273.1 | 1436.4 | 1379.8 | 1263.5 |
| 42.5° | 1928.9 | 1920.4 | 1863.8 | 1620.4 | 1449.1 | 1350.1 | 1338.2 | 1348.2 | 1544.6 | 1475.7 | 1344.3 |
| 45° | 1970.1 | 1965.1 | 1938.5 | 1684.8 | 1525.7 | 1422.9 | 1419.8 | 1414.4 | 1618.1 | 1593.9 | 1432.1 |
| 47.5° | 1947.0 | 1941.6 | 1953.5 | 1772.2 | 1573.5 | 1482.6 | 1495.7 | 1486.1 | 1702.5 | 1742.1 | 1527.6 |
| 50° | 1818.8 | 1823.8 | 1871.5 | 1775.6 | 1603.9 | 1531.1 | 1575.8 | 1551.9 | 1817.2 | 1898.5 | 1643.6 |
| 52.5° | 1447.5 | 1468.0 | 1670.1 | 1698.6 | 1607.0 | 1553.8 | 1647.8 | 1652.4 | 1959.7 | 2065.6 | 1796.0 |
| 55° | 1080.2 | 1109.1 | 1288.1 | 1510.7 | 1545.4 | 1554.6 | 1694.0 | 1744.4 | 2101.8 | 2214.3 | 1924.3 |
| 57.5° | 850.3 | 868.0 | 982.0 | 1205.3 | 1396.7 | 1527.3 | 1741.4 | 1819.2 | 2233.9 | 2362.9 | 2050.2 |
| 60° | 679.7 | 668.9 | 743.2 | 912.7 | 1164.1 | 1450.6 | 1762.2 | 1916.6 | 2398.3 | 2554.7 | 2198.5 |
| 62.5° | 491.4 | 492.1 | 548.7 | 645.4 | 921.5 | 1299.3 | 1746.0 | 2010.9 | 2607.8 | 2802.7 | 2396.0 |
| 65° | 348.5 | 352.0 | 390.5 | 442.5 | 666.2 | 1091.3 | 1665.9 | 2075.2 | 2844.3 | 3050.7 | 2556.6 |
| 67.5° | 265.3 | 267.6 | 285.7 | 310.0 | 430.5 | 830.2 | 1501.5 | 2062.1 | 2974.0 | 3168.1 | 2603.2 |
| 68° | 254.5 | 250.7 | 271.1 | 288.8 | 396.3 | 787.1 | 1456.4 | 2036.0 | 2980.2 | 3174.7 | 2592.0 |
| 70° | 214.5 | 214.5 | 223.7 | 228.0 | 280.7 | 581.9 | 1235.7 | 1877.7 | 2958.2 | 3134.2 | 2507.3 |
| 72.5° | 179.1 | 177.9 | 183.3 | 179.8 | 198.3 | 380.9 | 897.6 | 1619.3 | 2801.5 | 2949.8 | 2255.1 |
| 75° | 149.0 | 149.0 | 149.8 | 147.1 | 152.1 | 255.3 | 583.4 | 1268.5 | 2475.0 | 2463.0 | 1835.3 |
| 77.5° | 127.1 | 124.0 | 123.2 | 119.4 | 123.6 | 185.6 | 357.7 | 902.6 | 1786.8 | 1722.5 | 1165.3 |
| 80° | 100.9 | 100.5 | 101.3 | 99.0 | 102.4 | 135.2 | 218.0 | 527.6 | 973.1 | 856.4 | 543.4 |
| 82.5° | 62.4 | 68.5 | 75.5 | 75.5 | 86.3 | 95.5 | 132.1 | 282.3 | 471.7 | 414.7 | 230.7 |
| 85° | 20.4 | 25.0 | 44.3 | 45.8 | 55.5 | 44.7 | 75.9 | 90.9 | 157.5 | 140.6 | 44.3 |
| 87.5° | 0.8 | 1.2 | 3.5 | 5.4 | 5.0 | 3.1 | 5.4 | 4.2 | 8.9 | 6.5 | 6.9 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



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CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 |
| 2.5° | 1.5 | 1.5 | 1.5 | 1.9 | 1.9 | 1.2 | 0.8 | 1.5 | 1.5 | 1.5 | 1.5 |
| 5° | 1.5 | 1.5 | 1.9 | 1.9 | 1.9 | 1.5 | 1.9 | 2.7 | 3.1 | 3.1 | 3.1 |
| 7.5° | 1.5 | 1.5 | 1.5 | 2.3 | 2.3 | 2.7 | 3.9 | 23.1 | 53.1 | 58.1 | 57.4 |
| 10° | 3.1 | 2.7 | 3.1 | 3.5 | 4.2 | 49.3 | 64.7 | 68.2 | 69.7 | 70.9 | 70.5 |
| 12.5° | 73.9 | 66.2 | 12.3 | 6.9 | 46.6 | 69.3 | 70.5 | 73.2 | 75.9 | 77.0 | 77.0 |
| 15° | 173.3 | 155.2 | 118.6 | 89.3 | 79.7 | 73.9 | 75.1 | 98.6 | 134.0 | 137.5 | 137.9 |
| 17.5° | 184.1 | 161.4 | 124.0 | 136.7 | 140.9 | 109.7 | 120.5 | 135.6 | 137.1 | 137.5 | 137.5 |
| 20° | 347.0 | 290.7 | 176.4 | 144.0 | 143.6 | 183.7 | 128.6 | 132.5 | 134.8 | 153.3 | 155.6 |
| 22.5° | 375.5 | 311.5 | 211.8 | 204.5 | 154.8 | 183.7 | 168.3 | 163.7 | 179.1 | 177.5 | 178.7 |
| 25° | 472.1 | 373.9 | 223.0 | 205.3 | 216.8 | 177.9 | 197.5 | 162.9 | 165.6 | 164.8 | 164.8 |
| 27.5° | 600.4 | 471.7 | 311.5 | 229.9 | 210.6 | 205.6 | 182.9 | 156.7 | 187.9 | 188.7 | 188.7 |
| 30° | 635.8 | 485.2 | 311.5 | 248.4 | 219.1 | 202.2 | 169.1 | 185.2 | 174.8 | 171.7 | 170.2 |
| 32.5° | 881.1 | 658.1 | 377.0 | 239.1 | 216.0 | 185.6 | 185.2 | 172.1 | 171.7 | 178.7 | 178.7 |
| 35° | 925.8 | 668.1 | 344.3 | 273.4 | 203.7 | 191.4 | 176.0 | 174.1 | 166.4 | 163.7 | 163.3 |
| 37.5° | 970.0 | 674.3 | 319.2 | 251.1 | 209.1 | 182.5 | 173.3 | 159.8 | 168.3 | 168.3 | 167.5 |
| 40° | 1017.4 | 680.8 | 296.5 | 230.7 | 192.2 | 182.5 | 160.6 | 159.4 | 147.9 | 148.6 | 147.9 |
| 42.5° | 1068.2 | 683.5 | 272.3 | 213.7 | 176.4 | 171.4 | 155.2 | 143.3 | 142.9 | 145.6 | 144.8 |
| 45° | 1126.4 | 687.0 | 249.9 | 192.2 | 160.6 | 151.0 | 138.6 | 139.4 | 146.7 | 152.9 | 152.9 |
| 47.5° | 1188.4 | 690.1 | 231.4 | 172.9 | 149.4 | 137.1 | 127.8 | 130.9 | 144.0 | 150.2 | 152.1 |
| 50° | 1272.3 | 693.9 | 210.3 | 157.1 | 141.7 | 126.7 | 125.2 | 127.8 | 142.1 | 146.7 | 144.8 |
| 52.5° | 1361.7 | 687.0 | 189.5 | 147.1 | 133.6 | 115.1 | 117.8 | 124.8 | 140.2 | 142.5 | 140.9 |
| 55° | 1434.8 | 669.7 | 173.3 | 140.6 | 127.8 | 110.1 | 114.0 | 122.5 | 137.1 | 138.2 | 138.6 |
| 57.5° | 1519.9 | 646.9 | 160.6 | 135.6 | 124.4 | 107.8 | 112.4 | 122.1 | 130.9 | 136.3 | 136.3 |
| 60° | 1603.5 | 620.4 | 152.9 | 132.9 | 121.7 | 107.8 | 112.4 | 121.7 | 129.8 | 135.6 | 135.2 |
| 62.5° | 1701.3 | 590.3 | 148.3 | 134.4 | 118.2 | 109.0 | 113.2 | 122.8 | 129.4 | 135.9 | 135.2 |
| 65° | 1735.6 | 533.0 | 144.8 | 136.7 | 117.8 | 110.5 | 113.6 | 124.4 | 129.0 | 136.7 | 135.9 |
| 67.5° | 1667.8 | 457.1 | 139.0 | 136.7 | 121.3 | 112.4 | 113.2 | 123.6 | 127.8 | 137.1 | 133.6 |
| 68° | 1645.1 | 445.9 | 137.1 | 136.3 | 121.7 | 112.8 | 113.2 | 123.2 | 127.1 | 136.7 | 132.9 |
| 70° | 1518.8 | 375.1 | 127.5 | 132.5 | 123.2 | 114.4 | 111.3 | 120.5 | 123.2 | 135.9 | 131.3 |
| 72.5° | 1314.3 | 292.3 | 111.3 | 123.2 | 121.7 | 116.7 | 107.8 | 115.1 | 116.7 | 127.1 | 119.4 |
| 75° | 1050.9 | 222.2 | 92.0 | 107.1 | 114.4 | 116.7 | 102.8 | 107.8 | 107.4 | 112.4 | 105.5 |
| 77.5° | 660.8 | 158.7 | 74.3 | 90.9 | 104.0 | 113.6 | 98.2 | 98.2 | 93.6 | 94.3 | 91.3 |
| 80° | 320.4 | 108.6 | 60.1 | 75.1 | 87.0 | 107.4 | 90.1 | 82.8 | 77.0 | 75.5 | 71.6 |
| 82.5° | 157.5 | 70.1 | 41.6 | 56.6 | 68.9 | 89.0 | 80.9 | 68.2 | 58.1 | 57.4 | 51.2 |
| 85° | 36.6 | 28.9 | 22.7 | 30.0 | 43.5 | 58.1 | 58.1 | 42.7 | 36.2 | 47.0 | 34.7 |
| 87.5° | 3.5 | 4.2 | 4.6 | 4.2 | 5.4 | 5.0 | 12.3 | 12.3 | 11.2 | 7.3 | 5.0 |
| 90° | 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)