

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: P253940

Luminaire Tested: **LXF.LXT-AF24-100-D-U-SL3**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P253940  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1806-803-14-90°)  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: LXF.LXT-AF24-100-D-U-SL3  
Description: DECORATIVE POST TOP LUMINAIRE  
(1) 70 CRI, 4000K, 1200mA LIGHT ENGINE WITH 24 LEDS AND TYPE III SPILL LIGHT ELIMINATOR OPTICS  
PHOTOMETRIC DATA REPORTED FOR LOWER HEMISPHERE ONLY. MINIMAL LIGHT IN UPPER HEMISPHERE NOT REPORTED TO PROVIDE RELEVANT COMPARISON TO COMPETITIVE OFFERINGS.  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8663.4 lumens  
Efficiency: N/A  
Efficacy: 90.2 lumens/watt  
Luminous Opening: Rectangular (W 1.17' x L: 1.17' x H: 0')  
IES Classification: Type III - Medium - Non-Cutoff  
BUG Rating: B2 - U0 - G2

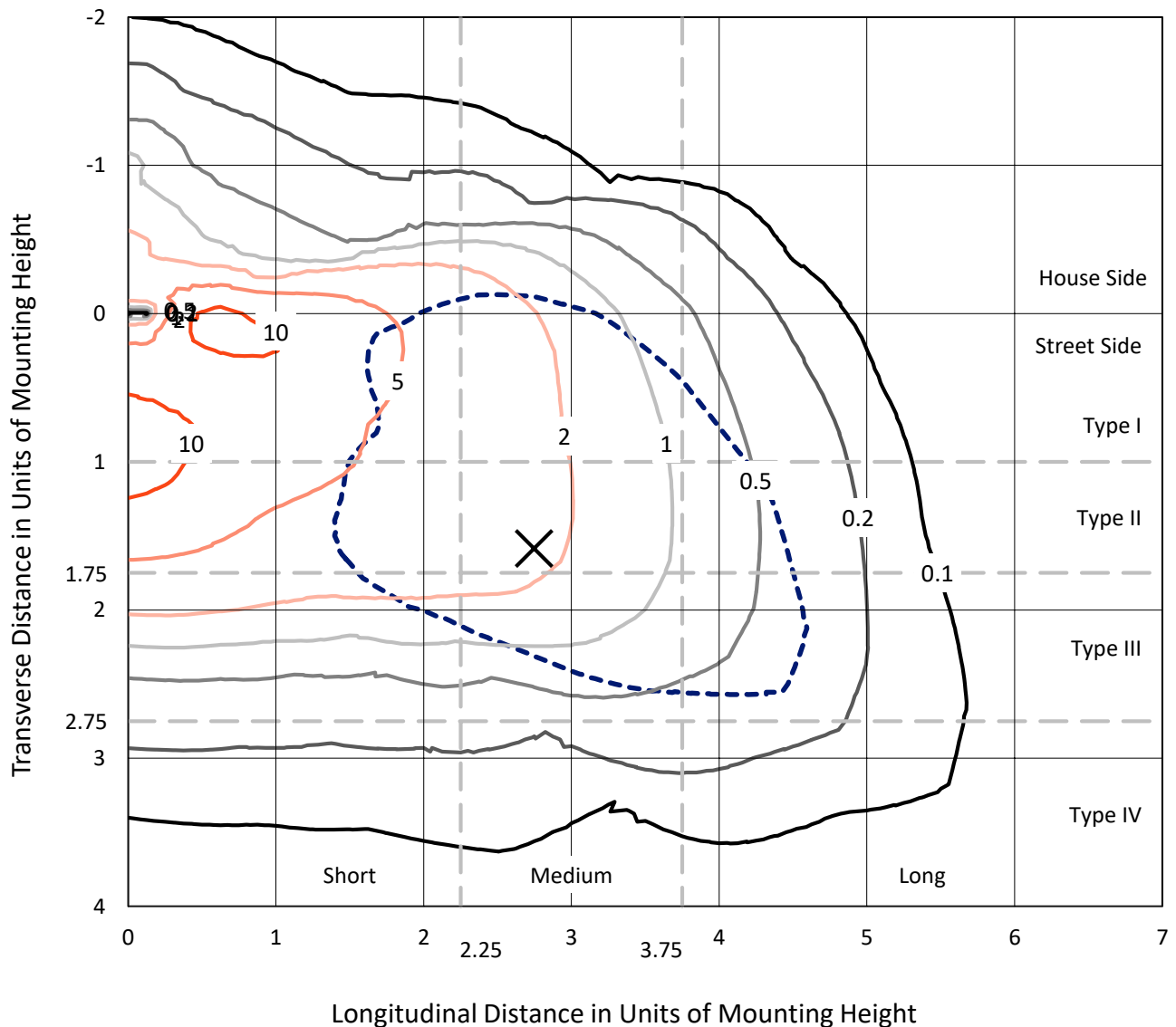
Input Watts (W): 96  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

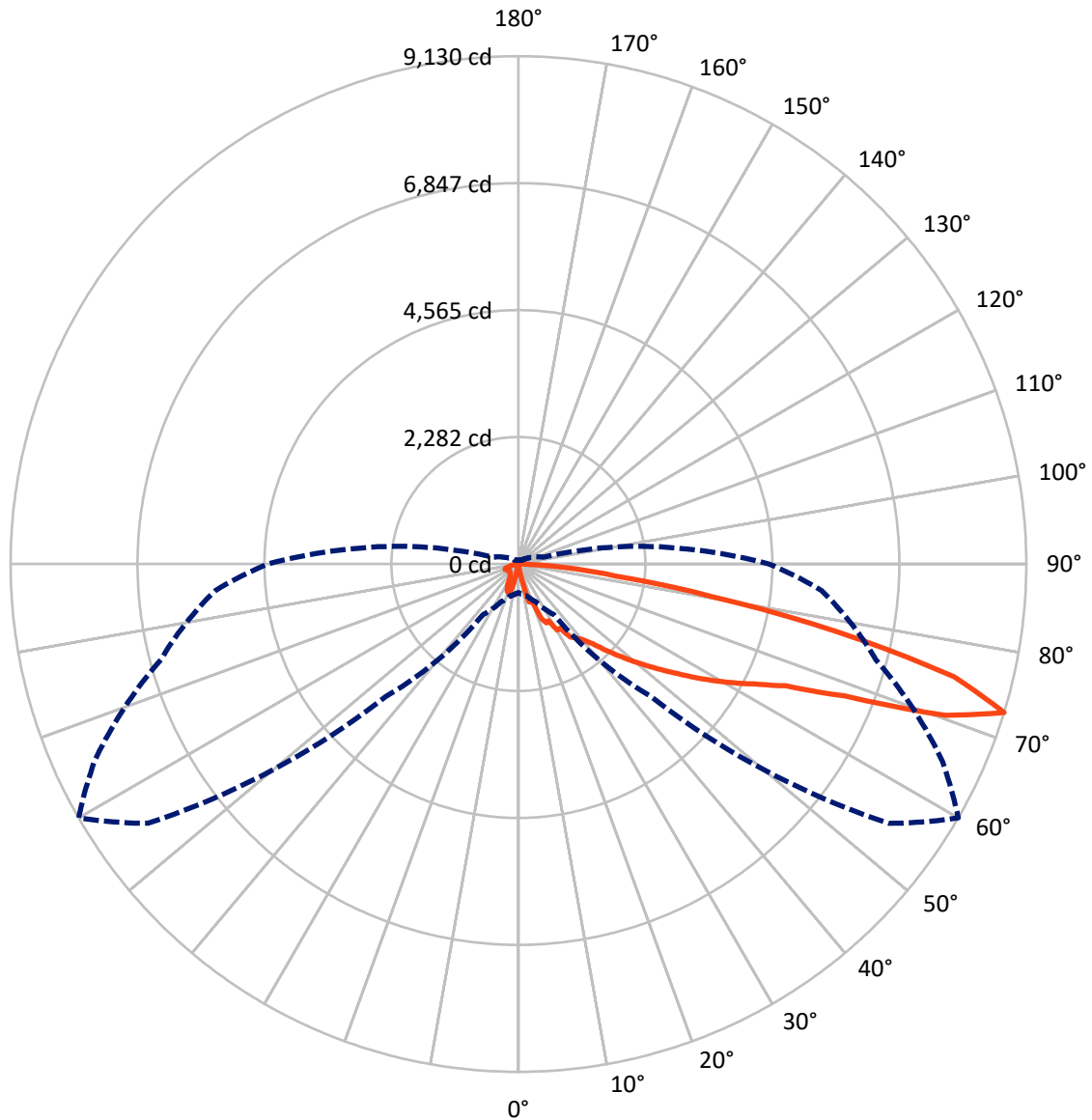
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 12.9 fc  
 Type III - Medium - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral    - - - Horizontal Cone Through 72.5-Deg Vertical

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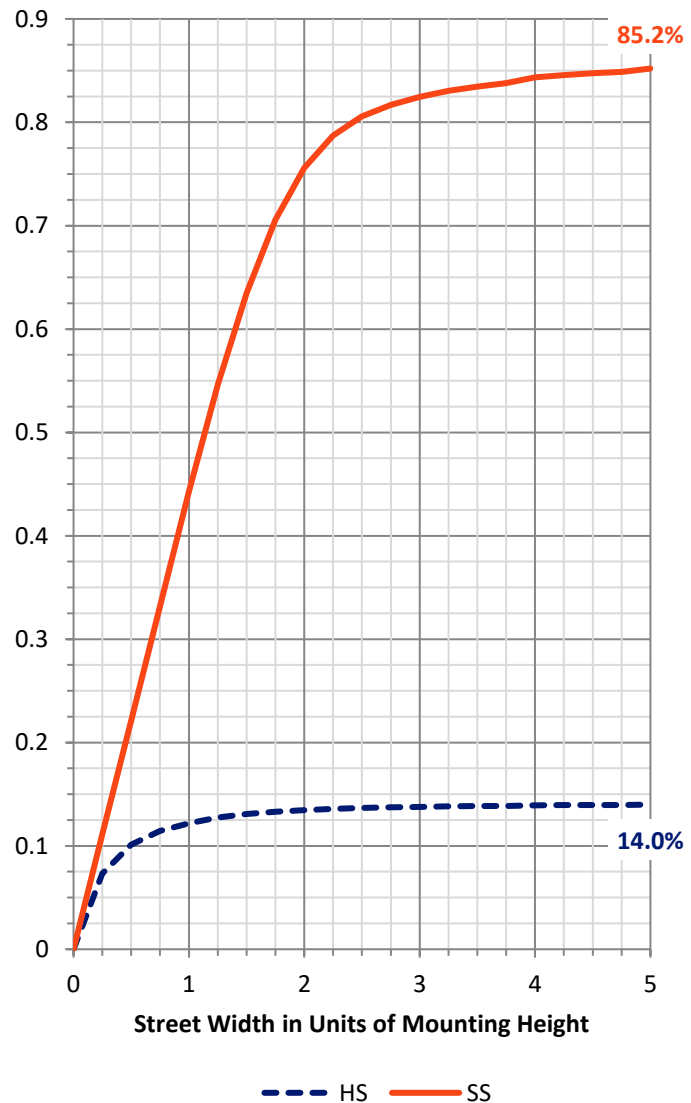
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1223.7   | 0.0    | 1223.7 |
|                    | % Fixture | 14.1     | 0.0    | 14.1   |
| <b>Street Side</b> | Lumens    | 7439.7   | 0.0    | 7439.7 |
|                    | % Fixture | 85.9     | 0.0    | 85.9   |
| <b>Total</b>       | Lumens    | 8663.4   | 0.0    | 8663.4 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 10.8   | 0.1       |
| 10°-20°   | 130.3  | 1.5       |
| 20°-30°   | 374.0  | 4.3       |
| 30°-40°   | 726.0  | 8.4       |
| 40°-50°   | 1222.1 | 14.1      |
| 50°-60°   | 1860.1 | 21.5      |
| 60°-70°   | 2306.4 | 26.6      |
| 70°-80°   | 1785.7 | 20.6      |
| 80°-90°   | 247.9  | 2.9       |
| 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°    | 8663.4 | 100.0     |
| 0°-180°   | 8663.4 | 100.0     |

**Coefficient of Utilization**



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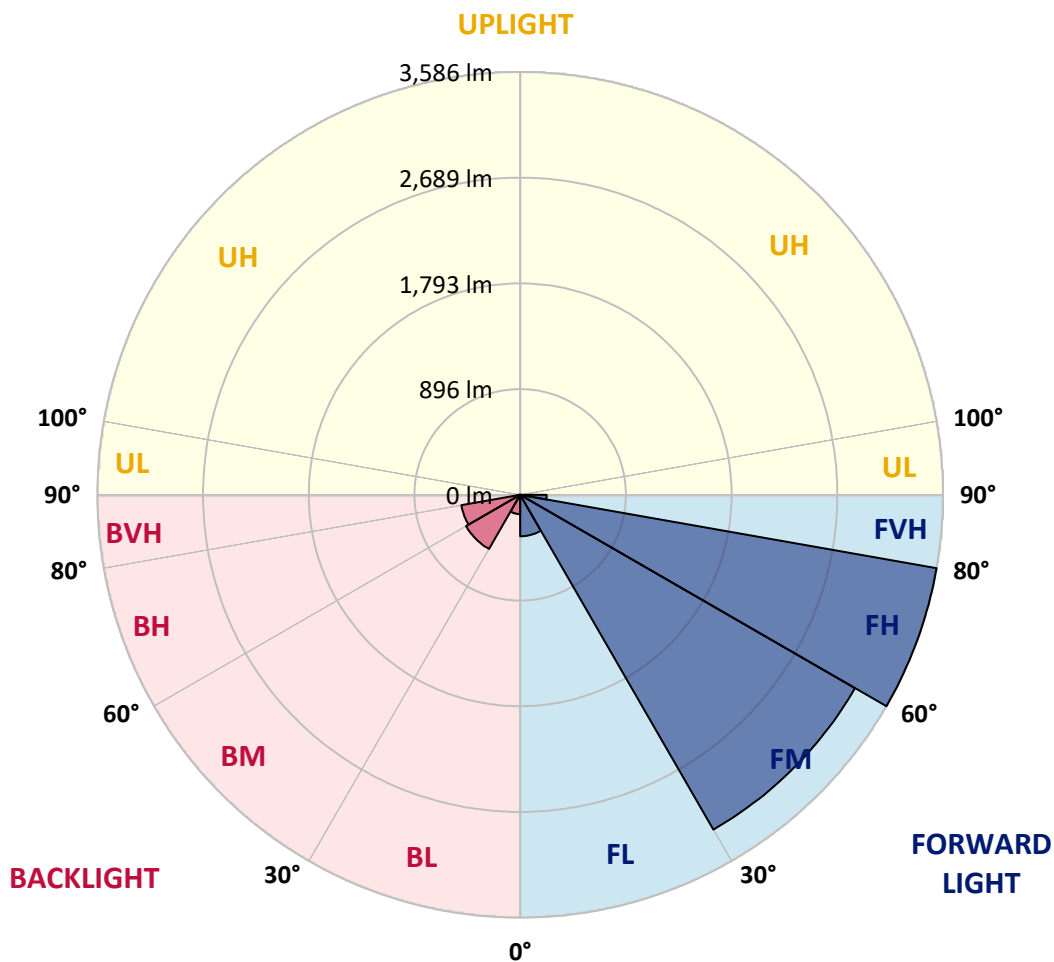
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 351.3  | 4.1       |                         |      |         |
| FM   | (30°-60°)   | 3278.2 | 37.8      |                         |      |         |
| FH   | (60°-80°)   | 3585.7 | 41.4      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 224.5  | 2.6       |                         |      | G2/225  |
| BL   | (0°-30°)    | 163.9  | 1.9       | B1/500                  |      |         |
| BM   | (30°-60°)   | 530.0  | 6.1       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 506.4  | 5.8       | B2/1000                 |      | G2/1000 |
| BVH  | (80°-90°)   | 23.5   | 0.3       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B2-U0-G2**

Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 60°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 2.5°  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.0    | 1.0    | 1.0    | 1.0    |
| 5°    | 128.9  | 163.7  | 119.7  | 43.0   | 29.7   | 7.2    | 2.0    | 2.0    | 2.0    | 2.0    | 1.0    |
| 7.5°  | 378.5  | 373.4  | 374.4  | 378.5  | 382.6  | 347.8  | 36.8   | 11.3   | 4.1    | 3.1    | 1.0    |
| 10°   | 364.2  | 361.1  | 361.1  | 365.2  | 368.3  | 372.4  | 376.4  | 151.4  | 28.6   | 5.1    | 3.1    |
| 12.5° | 672.1  | 668.0  | 638.3  | 401.0  | 365.2  | 364.2  | 369.3  | 321.2  | 237.3  | 34.8   | 92.1   |
| 15°   | 648.6  | 645.5  | 647.5  | 663.9  | 655.7  | 375.4  | 524.8  | 699.7  | 734.5  | 507.4  | 604.6  |
| 17.5° | 660.8  | 658.8  | 632.2  | 640.4  | 650.6  | 752.9  | 735.5  | 722.2  | 736.5  | 530.9  | 610.7  |
| 20°   | 898.2  | 894.1  | 892.0  | 700.7  | 639.3  | 881.8  | 793.8  | 723.2  | 751.9  | 1134.5 | 1109.9 |
| 22.5° | 888.9  | 884.9  | 876.7  | 879.7  | 998.4  | 851.1  | 890.0  | 1069.0 | 1097.6 | 1265.4 | 1159.0 |
| 25°   | 1180.5 | 1174.3 | 932.9  | 880.8  | 996.4  | 891.0  | 1142.6 | 1174.3 | 1128.3 | 1273.6 | 1215.3 |
| 27.5° | 1287.9 | 1269.5 | 1203.0 | 1160.0 | 1000.4 | 1130.4 | 1114.0 | 1159.0 | 1419.8 | 1685.7 | 1627.4 |
| 30°   | 1717.4 | 1654.0 | 1318.6 | 1298.1 | 1174.3 | 1134.5 | 1228.6 | 1374.8 | 1497.5 | 1678.6 | 1672.4 |
| 32.5° | 1999.8 | 1919.0 | 1756.3 | 1510.8 | 1365.6 | 1199.9 | 1350.3 | 1378.9 | 1468.9 | 2098.0 | 2091.8 |
| 35°   | 2451.9 | 2373.1 | 1941.5 | 1795.2 | 1568.1 | 1456.6 | 1383.0 | 1613.1 | 1732.8 | 2191.1 | 2164.5 |
| 37.5° | 2548.1 | 2528.6 | 2410.0 | 2039.7 | 1821.8 | 1610.0 | 1620.3 | 1684.7 | 1799.3 | 2328.1 | 2280.1 |
| 40°   | 2606.4 | 2615.6 | 2632.0 | 2352.7 | 2056.0 | 1853.5 | 1772.7 | 1792.1 | 1902.6 | 2495.9 | 2410.0 |
| 42.5° | 2812.0 | 2819.2 | 2849.8 | 2565.5 | 2375.2 | 2131.7 | 2009.0 | 1957.8 | 2041.7 | 2697.4 | 2595.1 |
| 45°   | 3194.6 | 3175.1 | 3171.0 | 2793.6 | 2603.3 | 2390.5 | 2288.2 | 2213.6 | 2237.1 | 2900.0 | 2837.6 |
| 47.5° | 3677.4 | 3595.6 | 3467.7 | 3041.1 | 2826.3 | 2651.4 | 2574.7 | 2491.8 | 2460.1 | 3155.7 | 3138.3 |
| 50°   | 4041.6 | 3951.6 | 3693.8 | 3277.4 | 3019.6 | 2914.3 | 2882.6 | 2794.6 | 2752.7 | 3455.4 | 3471.8 |
| 52.5° | 4114.2 | 4066.1 | 3799.1 | 3425.8 | 3179.2 | 3174.1 | 3200.7 | 3121.9 | 3045.2 | 3748.0 | 3803.2 |
| 55°   | 4029.3 | 4001.7 | 3831.9 | 3521.9 | 3320.4 | 3432.9 | 3540.3 | 3475.9 | 3365.4 | 4028.3 | 4120.3 |
| 57.5° | 3853.4 | 3836.0 | 3804.3 | 3602.7 | 3423.7 | 3669.2 | 3935.2 | 3894.3 | 3758.2 | 4321.8 | 4386.2 |
| 60°   | 3470.8 | 3486.1 | 3576.1 | 3575.1 | 3582.3 | 3932.1 | 4348.4 | 4313.6 | 4158.2 | 4593.9 | 4610.2 |
| 62.5° | 2791.5 | 2853.9 | 3092.3 | 3330.6 | 3691.7 | 4327.9 | 4730.9 | 4745.3 | 4573.4 | 4883.4 | 4877.2 |
| 65°   | 1792.1 | 1924.1 | 2281.1 | 2829.4 | 3553.6 | 4941.7 | 5332.4 | 5274.1 | 5047.0 | 5205.6 | 5308.9 |
| 67.5° | 947.3  | 1009.7 | 1225.5 | 1836.1 | 3046.2 | 5210.7 | 6687.8 | 6326.7 | 5840.8 | 5730.4 | 5781.5 |
| 70°   | 656.7  | 679.2  | 742.7  | 1005.6 | 1901.6 | 4814.8 | 8015.5 | 8148.5 | 7144.0 | 6364.6 | 5915.5 |
| 72.5° | 517.6  | 537.0  | 597.4  | 750.8  | 1109.9 | 3368.5 | 8126.0 | 9129.5 | 8413.5 | 6654.1 | 5467.5 |
| 75°   | 355.0  | 391.8  | 474.6  | 645.5  | 988.2  | 1576.3 | 6729.8 | 8086.1 | 8162.8 | 6140.6 | 4256.3 |
| 77.5° | 178.0  | 183.1  | 219.9  | 495.1  | 936.0  | 1076.1 | 4331.0 | 5844.9 | 5936.0 | 4390.3 | 2344.5 |
| 80°   | 143.2  | 145.3  | 155.5  | 210.7  | 805.1  | 1098.6 | 2256.5 | 3509.6 | 3256.0 | 1615.1 | 646.5  |
| 82.5° | 88.0   | 97.2   | 121.7  | 134.0  | 361.1  | 1035.2 | 1202.0 | 1752.2 | 1358.5 | 383.6  | 251.6  |
| 85°   | 44.0   | 53.2   | 87.0   | 98.2   | 149.4  | 1228.6 | 986.1  | 899.2  | 639.3  | 170.8  | 98.2   |
| 87.5° | 2.0    | 4.1    | 18.4   | 28.6   | 36.8   | 243.5  | 403.0  | 209.7  | 152.4  | 10.2   | 7.2    |
| 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°    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 2.5°  | 1.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 5°    | 1.0    | 1.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 7.5°  | 1.0    | 1.0    | 0.0    | 0.0   | 0.0   | 0.0   | 41.9  | 328.4 | 336.6 | 346.8 | 347.8 |
| 10°   | 3.1    | 3.1    | 2.0    | 2.0   | 1.0   | 314.0 | 335.5 | 332.5 | 326.3 | 323.3 | 323.3 |
| 12.5° | 218.9  | 58.3   | 30.7   | 12.3  | 252.7 | 313.0 | 296.7 | 285.4 | 276.2 | 273.1 | 272.1 |
| 15°   | 594.3  | 578.0  | 498.2  | 499.2 | 259.8 | 276.2 | 249.6 | 358.0 | 361.1 | 355.0 | 351.9 |
| 17.5° | 593.3  | 568.8  | 506.4  | 570.8 | 503.3 | 321.2 | 302.8 | 288.5 | 272.1 | 268.0 | 268.0 |
| 20°   | 1099.7 | 1027.0 | 786.6  | 544.2 | 428.6 | 424.5 | 250.6 | 218.9 | 228.1 | 310.0 | 315.1 |
| 22.5° | 1095.6 | 1018.9 | 779.5  | 673.1 | 399.0 | 325.3 | 244.5 | 249.6 | 301.8 | 329.4 | 333.5 |
| 25°   | 1293.0 | 1023.0 | 789.7  | 569.8 | 404.1 | 261.9 | 262.9 | 237.3 | 272.1 | 305.9 | 308.9 |
| 27.5° | 1530.2 | 1381.0 | 961.6  | 539.1 | 301.8 | 250.6 | 227.1 | 223.0 | 285.4 | 310.0 | 311.0 |
| 30°   | 1521.0 | 1346.2 | 888.9  | 448.1 | 245.5 | 216.9 | 202.5 | 234.3 | 249.6 | 267.0 | 269.0 |
| 32.5° | 1953.7 | 1703.1 | 1000.4 | 347.8 | 215.8 | 190.3 | 201.5 | 216.9 | 251.6 | 290.5 | 295.6 |
| 35°   | 1953.7 | 1667.3 | 849.0  | 319.2 | 203.6 | 190.3 | 191.3 | 217.9 | 236.3 | 268.0 | 272.1 |
| 37.5° | 1998.7 | 1656.1 | 702.8  | 270.1 | 210.7 | 188.2 | 192.3 | 202.5 | 230.2 | 262.9 | 264.9 |
| 40°   | 2081.6 | 1671.4 | 573.9  | 242.4 | 206.6 | 187.2 | 186.2 | 200.5 | 211.8 | 235.3 | 235.3 |
| 42.5° | 2221.7 | 1723.6 | 472.6  | 232.2 | 202.5 | 188.2 | 180.0 | 183.1 | 188.2 | 256.8 | 259.8 |
| 45°   | 2410.0 | 1825.9 | 403.0  | 229.1 | 200.5 | 181.1 | 165.7 | 166.7 | 171.9 | 305.9 | 318.1 |
| 47.5° | 2638.1 | 1971.1 | 363.1  | 231.2 | 199.5 | 171.9 | 152.4 | 155.5 | 178.0 | 331.4 | 334.5 |
| 50°   | 2930.7 | 2142.0 | 346.8  | 234.3 | 198.5 | 160.6 | 146.3 | 169.8 | 196.4 | 303.8 | 297.7 |
| 52.5° | 3213.0 | 2355.8 | 341.7  | 241.4 | 196.4 | 151.4 | 160.6 | 171.9 | 167.8 | 222.0 | 213.8 |
| 55°   | 3519.9 | 2598.2 | 341.7  | 244.5 | 188.2 | 157.5 | 148.3 | 135.0 | 133.0 | 160.6 | 157.5 |
| 57.5° | 3797.1 | 2858.0 | 352.9  | 231.2 | 177.0 | 149.4 | 129.9 | 118.7 | 120.7 | 150.4 | 151.4 |
| 60°   | 4061.0 | 3111.7 | 420.4  | 214.8 | 170.8 | 136.1 | 121.7 | 113.5 | 117.6 | 153.4 | 152.4 |
| 62.5° | 4376.0 | 3464.6 | 570.8  | 222.0 | 168.8 | 130.9 | 113.5 | 104.3 | 109.5 | 116.6 | 119.7 |
| 65°   | 4850.6 | 3874.8 | 678.2  | 263.9 | 177.0 | 125.8 | 103.3 | 99.2  | 100.2 | 99.2  | 100.2 |
| 67.5° | 5212.8 | 4062.0 | 652.6  | 302.8 | 197.4 | 122.8 | 99.2  | 93.1  | 90.0  | 90.0  | 92.1  |
| 70°   | 5134.0 | 3787.9 | 556.5  | 314.0 | 198.5 | 119.7 | 93.1  | 84.9  | 81.8  | 81.8  | 82.9  |
| 72.5° | 4498.7 | 3060.6 | 471.6  | 283.4 | 173.9 | 107.4 | 82.9  | 75.7  | 73.7  | 73.7  | 72.6  |
| 75°   | 3361.3 | 2029.4 | 395.9  | 235.3 | 139.1 | 90.0  | 71.6  | 66.5  | 64.4  | 64.4  | 63.4  |
| 77.5° | 1603.9 | 935.0  | 329.4  | 184.1 | 105.4 | 72.6  | 61.4  | 56.3  | 55.2  | 54.2  | 52.2  |
| 80°   | 514.5  | 413.3  | 232.2  | 133.0 | 78.8  | 57.3  | 49.1  | 46.0  | 45.0  | 44.0  | 39.9  |
| 82.5° | 245.5  | 224.0  | 134.0  | 87.0  | 58.3  | 41.9  | 38.9  | 34.8  | 32.7  | 30.7  | 25.6  |
| 85°   | 89.0   | 90.0   | 55.2   | 35.8  | 25.6  | 11.3  | 24.6  | 19.4  | 18.4  | 14.3  | 8.2   |
| 87.5° | 5.1    | 6.1    | 3.1    | 3.1   | 2.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 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)