

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: P416716

Luminaire Tested: **LXF.LXT-PA1-80-730-U-T2U**

Issue Date: 10/26/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P416716  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1907-433-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 10/26/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: LXF.LXT-PA1-80-730-U-T2U  
Description: DECORATIVE POST TOP LUMINAIRE  
(1) 70 CRI, 3000K, 1050mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8458 lumens  
Efficiency: N/A  
Efficacy: 101.9 lumens/watt  
Luminous Opening: Rectangular (W 1.17' x L: 1.17' x H: 0')  
IES Classification: Type II - Short - Non-Cutoff  
BUG Rating: B2 - U0 - G2

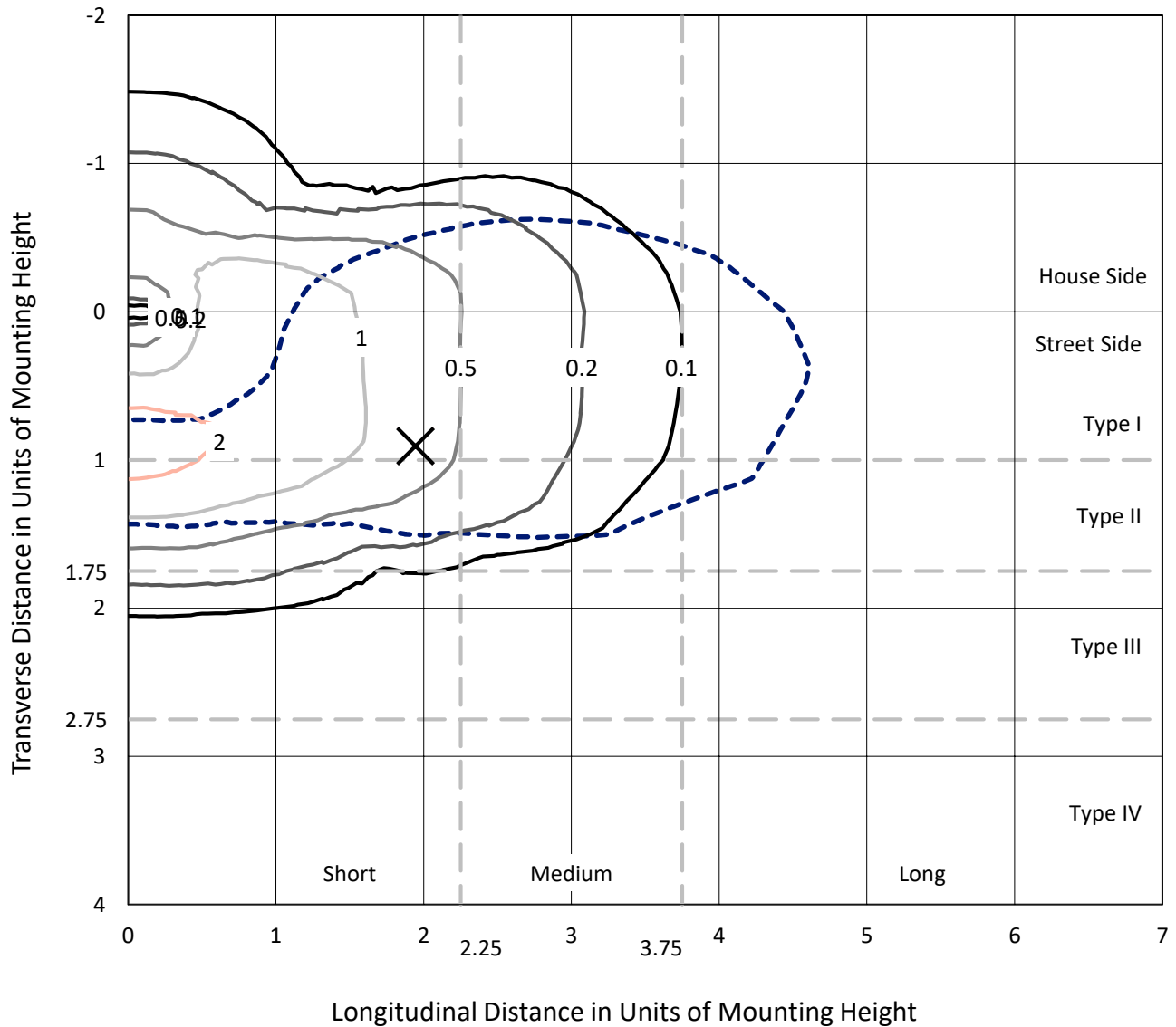
Input Watts (W): 83  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

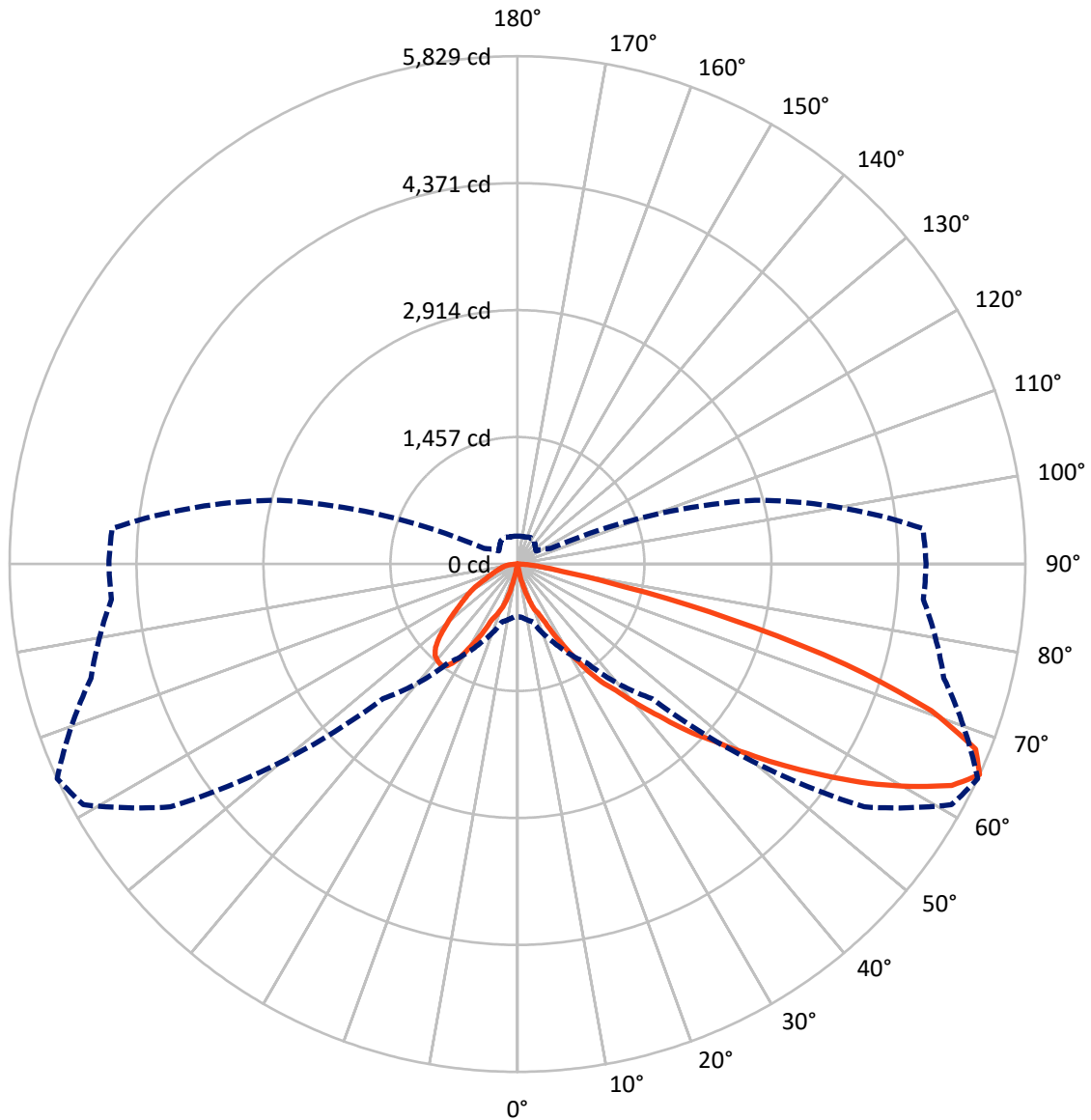
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 fc  
 Type II - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 2282.2   | 0.0    | 2282.2 |
|                    | % Fixture | 27.0     | 0.0    | 27.0   |
| <b>Street Side</b> | Lumens    | 6175.8   | 0.0    | 6175.8 |
|                    | % Fixture | 73.0     | 0.0    | 73.0   |
| <b>Total</b>       | Lumens    | 8458.0   | 0.0    | 8458.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 6.2    | 0.1       |
| 10°-20°   | 93.5   | 1.1       |
| 20°-30°   | 359.7  | 4.3       |
| 30°-40°   | 900.3  | 10.6      |
| 40°-50°   | 1676.3 | 19.8      |
| 50°-60°   | 2195.0 | 26.0      |
| 60°-70°   | 1967.8 | 23.3      |
| 70°-80°   | 1082.4 | 12.8      |
| 80°-90°   | 176.9  | 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°    | 8458.0 | 100.0     |
| 0°-180°   | 8458.0 | 100.0     |



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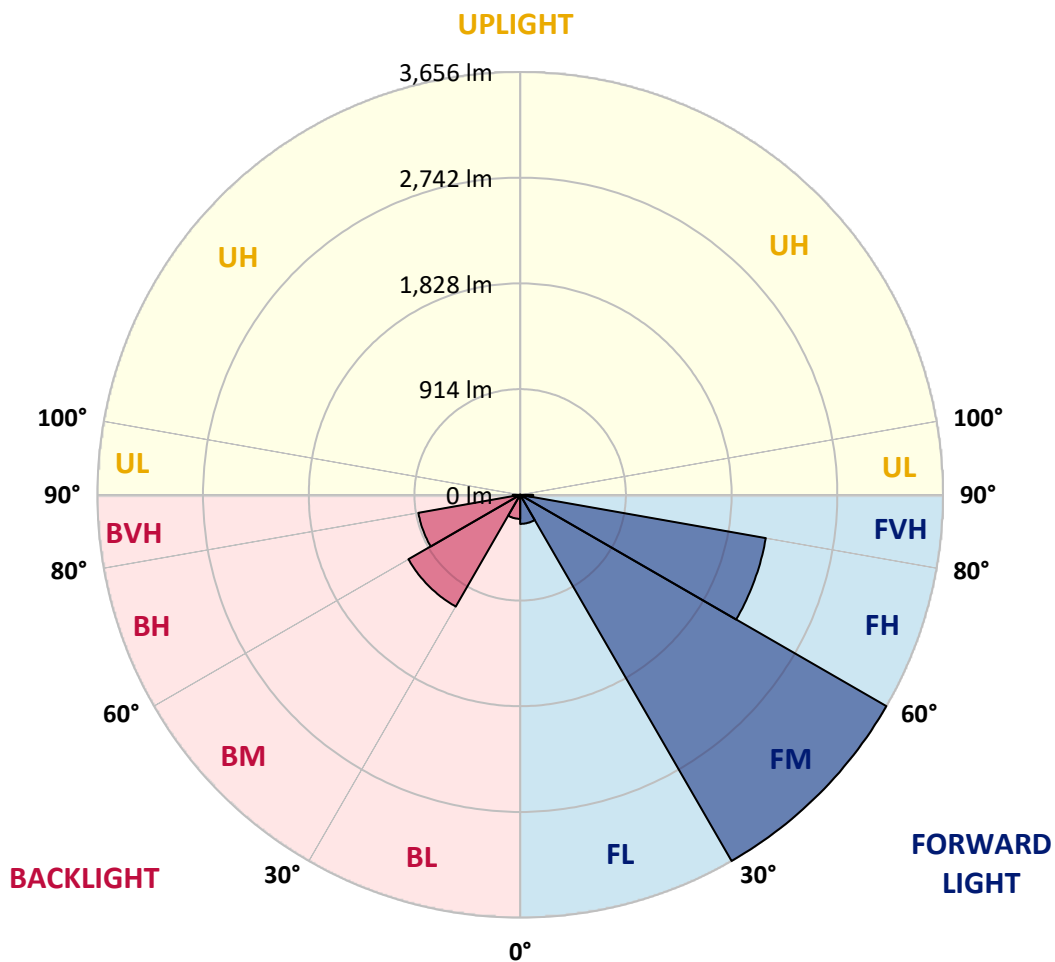
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 251.4  | 3.0       |                         |      |         |
| FM   | (30°-60°)   | 3655.7 | 43.2      |                         |      |         |
| FH   | (60°-80°)   | 2156.4 | 25.5      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 112.2  | 1.3       |                         |      | G2/225  |
| BL   | (0°-30°)    | 207.9  | 2.5       | B1/500                  |      |         |
| BM   | (30°-60°)   | 1115.9 | 13.2      | B2/2500                 |      |         |
| BH   | (60°-80°)   | 893.7  | 10.6      | B2/1000                 |      | G2/1000 |
| BVH  | (80°-90°)   | 64.6   | 0.8       |                         |      | 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 II Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 61°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2.7    | 2.7    | 2.7    | 2.7    | 2.7    | 2.7    | 2.7    | 2.7    | 2.7    | 2.7    | 2.7    |
| 2.5°  | 4.6    | 4.6    | 5.5    | 6.4    | 6.4    | 5.5    | 4.6    | 3.6    | 2.7    | 1.8    | 1.8    |
| 5°    | 41.9   | 37.3   | 29.1   | 20.0   | 11.8   | 9.1    | 7.3    | 5.5    | 4.6    | 2.7    | 1.8    |
| 7.5°  | 204.9  | 204.0  | 203.1  | 204.0  | 199.4  | 78.3   | 14.6   | 9.1    | 7.3    | 3.6    | 2.7    |
| 10°   | 205.8  | 204.9  | 204.0  | 205.8  | 205.8  | 203.1  | 193.1  | 28.2   | 14.6   | 9.1    | 9.1    |
| 12.5° | 366.1  | 353.4  | 244.1  | 214.9  | 207.6  | 207.6  | 207.6  | 185.8  | 176.7  | 130.2  | 157.6  |
| 15°   | 384.3  | 381.6  | 380.7  | 382.5  | 338.8  | 224.0  | 313.3  | 295.1  | 298.7  | 255.0  | 302.4  |
| 17.5° | 404.4  | 399.8  | 396.2  | 397.1  | 381.6  | 439.9  | 411.6  | 420.8  | 424.4  | 322.4  | 353.4  |
| 20°   | 626.6  | 626.6  | 579.2  | 439.0  | 481.8  | 551.9  | 455.4  | 500.0  | 553.7  | 481.8  | 494.5  |
| 22.5° | 711.3  | 704.9  | 698.5  | 662.1  | 605.6  | 602.0  | 662.1  | 580.1  | 615.6  | 707.6  | 653.9  |
| 25°   | 967.2  | 969.0  | 812.4  | 764.1  | 846.1  | 737.7  | 790.5  | 785.9  | 744.1  | 857.9  | 828.8  |
| 27.5° | 1224.0 | 1227.6 | 1210.3 | 1077.4 | 967.2  | 949.0  | 899.8  | 969.9  | 959.0  | 951.7  | 1020.0 |
| 30°   | 1463.5 | 1462.6 | 1384.3 | 1328.7 | 1269.5 | 1163.9 | 1109.3 | 1123.8 | 1167.5 | 1127.5 | 1272.3 |
| 32.5° | 2036.4 | 2020.9 | 1937.1 | 1584.6 | 1493.6 | 1394.3 | 1378.8 | 1337.8 | 1425.3 | 1397.0 | 1530.9 |
| 35°   | 2418.0 | 2414.3 | 2262.2 | 2063.7 | 1775.9 | 1665.7 | 1667.5 | 1591.0 | 1663.0 | 1699.4 | 1720.3 |
| 37.5° | 3270.4 | 3257.6 | 3026.3 | 2444.4 | 2217.6 | 1990.8 | 1948.9 | 1912.5 | 1837.8 | 1943.5 | 1942.6 |
| 40°   | 3729.4 | 3693.0 | 3489.0 | 3105.5 | 2603.7 | 2330.5 | 2243.1 | 2164.8 | 2111.0 | 2173.0 | 2164.8 |
| 42.5° | 4086.4 | 4058.2 | 3914.3 | 3517.2 | 3107.4 | 2895.2 | 2569.1 | 2494.5 | 2386.1 | 2459.8 | 2421.6 |
| 45°   | 4342.3 | 4327.7 | 4199.3 | 3904.2 | 3590.0 | 3434.3 | 2937.1 | 2820.5 | 2726.7 | 2716.7 | 2693.9 |
| 47.5° | 4391.5 | 4360.5 | 4322.3 | 4156.5 | 4022.6 | 3976.2 | 3392.4 | 3191.2 | 3036.3 | 3007.2 | 2968.9 |
| 50°   | 4159.2 | 4150.1 | 4200.2 | 4170.2 | 4333.2 | 4441.6 | 3917.9 | 3639.2 | 3422.5 | 3319.6 | 3245.8 |
| 52.5° | 3621.0 | 3640.1 | 3832.3 | 3966.2 | 4372.4 | 4765.8 | 4411.5 | 4141.9 | 3846.0 | 3619.2 | 3519.9 |
| 55°   | 2877.0 | 2946.2 | 3231.2 | 3509.9 | 4127.4 | 4906.0 | 4879.6 | 4667.4 | 4285.8 | 3954.3 | 3807.7 |
| 57.5° | 2209.4 | 2202.1 | 2569.1 | 2822.3 | 3630.1 | 4812.2 | 5183.8 | 5123.7 | 4748.5 | 4302.2 | 4082.7 |
| 60°   | 1431.6 | 1425.3 | 1858.8 | 2183.0 | 2797.7 | 4331.4 | 5341.4 | 5498.9 | 5182.9 | 4602.8 | 4330.5 |
| 62.5° | 934.4  | 973.6  | 1138.4 | 1599.2 | 1998.1 | 3349.6 | 5288.5 | 5732.1 | 5596.4 | 4881.4 | 4568.2 |
| 65°   | 601.1  | 615.6  | 687.6  | 996.3  | 1385.2 | 2184.8 | 4860.5 | 5697.4 | 5828.6 | 5067.2 | 4676.5 |
| 67.5° | 448.1  | 451.7  | 486.3  | 619.3  | 942.6  | 1142.0 | 3815.0 | 5216.6 | 5671.0 | 5080.0 | 4641.0 |
| 70°   | 393.4  | 400.7  | 434.4  | 467.2  | 701.3  | 718.6  | 2230.3 | 4193.9 | 5039.0 | 4896.9 | 4461.6 |
| 72.5° | 336.1  | 343.3  | 388.0  | 435.3  | 536.4  | 539.1  | 834.2  | 2786.8 | 3945.2 | 4525.4 | 4173.8 |
| 75°   | 274.1  | 278.7  | 317.8  | 381.6  | 447.2  | 432.6  | 482.7  | 1259.5 | 2525.4 | 3761.3 | 3723.0 |
| 77.5° | 221.3  | 224.9  | 253.2  | 304.2  | 396.2  | 331.5  | 359.7  | 540.1  | 1255.0 | 2715.8 | 3016.3 |
| 80°   | 160.3  | 162.1  | 189.4  | 233.1  | 297.8  | 296.0  | 268.7  | 342.4  | 518.2  | 1586.5 | 1997.2 |
| 82.5° | 102.0  | 102.0  | 130.2  | 153.0  | 197.6  | 292.3  | 188.5  | 230.4  | 289.6  | 789.6  | 960.8  |
| 85°   | 57.4   | 59.2   | 82.0   | 89.3   | 115.7  | 177.6  | 135.7  | 127.5  | 156.6  | 286.0  | 236.8  |
| 87.5° | 10.9   | 13.7   | 23.7   | 25.5   | 30.1   | 41.9   | 49.2   | 44.6   | 46.4   | 66.5   | 39.2   |
| 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°    | 2.7    | 2.7    | 2.7    | 2.7    | 2.7   | 2.7   | 2.7   | 2.7   | 2.7   | 2.7   | 2.7   |
| 2.5°  | 1.8    | 2.7    | 3.6    | 3.6    | 3.6   | 3.6   | 3.6   | 3.6   | 3.6   | 2.7   | 2.7   |
| 5°    | 1.8    | 2.7    | 3.6    | 3.6    | 4.6   | 6.4   | 7.3   | 7.3   | 8.2   | 9.1   | 8.2   |
| 7.5°  | 1.8    | 2.7    | 3.6    | 5.5    | 7.3   | 14.6  | 52.8  | 186.7 | 200.4 | 203.1 | 206.7 |
| 10°   | 8.2    | 8.2    | 9.1    | 10.0   | 41.0  | 195.8 | 210.4 | 212.2 | 214.0 | 214.9 | 215.8 |
| 12.5° | 160.3  | 158.5  | 157.6  | 121.1  | 186.7 | 215.8 | 218.6 | 220.4 | 223.1 | 265.9 | 287.8 |
| 15°   | 306.0  | 306.9  | 291.4  | 279.6  | 325.1 | 236.8 | 252.3 | 389.8 | 403.4 | 408.0 | 410.7 |
| 17.5° | 350.6  | 366.1  | 325.1  | 431.7  | 428.0 | 360.6 | 397.1 | 418.0 | 419.8 | 422.6 | 423.5 |
| 20°   | 498.2  | 494.5  | 473.6  | 541.0  | 463.6 | 592.9 | 491.8 | 423.5 | 532.8 | 586.5 | 587.4 |
| 22.5° | 646.6  | 647.5  | 617.5  | 624.8  | 666.6 | 610.2 | 492.7 | 559.2 | 572.8 | 571.9 | 569.2 |
| 25°   | 833.3  | 826.0  | 811.4  | 694.9  | 786.9 | 663.9 | 655.7 | 541.9 | 543.7 | 587.4 | 615.6 |
| 27.5° | 1019.1 | 1000.9 | 943.5  | 900.7  | 816.9 | 738.6 | 619.3 | 586.5 | 632.0 | 629.3 | 630.2 |
| 30°   | 1275.9 | 1247.7 | 1089.2 | 1083.8 | 867.0 | 731.3 | 630.2 | 583.8 | 568.3 | 571.9 | 570.1 |
| 32.5° | 1532.7 | 1481.7 | 1338.8 | 1292.3 | 924.4 | 681.2 | 578.3 | 539.1 | 583.8 | 590.1 | 586.5 |
| 35°   | 1691.2 | 1649.3 | 1600.1 | 1415.3 | 930.8 | 627.5 | 523.7 | 532.8 | 530.0 | 527.3 | 529.1 |
| 37.5° | 1876.1 | 1807.8 | 1765.0 | 1457.1 | 877.9 | 560.1 | 499.1 | 491.8 | 535.5 | 536.4 | 532.8 |
| 40°   | 2082.8 | 2005.4 | 1909.8 | 1438.0 | 757.7 | 507.3 | 463.6 | 487.2 | 490.0 | 479.0 | 476.3 |
| 42.5° | 2316.0 | 2203.0 | 2061.0 | 1412.5 | 628.4 | 476.3 | 449.9 | 452.6 | 454.4 | 442.6 | 438.1 |
| 45°   | 2550.9 | 2418.9 | 2190.3 | 1341.5 | 534.6 | 445.3 | 428.9 | 428.0 | 418.9 | 408.0 | 405.3 |
| 47.5° | 2814.1 | 2659.3 | 2296.8 | 1217.6 | 468.1 | 421.7 | 415.3 | 398.0 | 400.7 | 390.7 | 389.8 |
| 50°   | 3085.5 | 2918.8 | 2357.8 | 1069.2 | 424.4 | 401.6 | 390.7 | 385.2 | 392.5 | 380.7 | 378.9 |
| 52.5° | 3351.4 | 3212.1 | 2454.4 | 936.2  | 387.1 | 384.3 | 379.8 | 381.6 | 384.3 | 371.6 | 370.7 |
| 55°   | 3640.1 | 3540.0 | 2542.7 | 809.6  | 354.3 | 360.6 | 376.1 | 375.2 | 374.3 | 362.5 | 362.5 |
| 57.5° | 3905.2 | 3856.0 | 2632.9 | 712.2  | 328.8 | 339.7 | 367.9 | 367.9 | 363.4 | 353.4 | 352.4 |
| 60°   | 4213.0 | 4176.5 | 2718.5 | 624.8  | 306.9 | 320.6 | 357.9 | 358.8 | 350.6 | 343.3 | 341.5 |
| 62.5° | 4492.6 | 4465.2 | 2786.8 | 532.8  | 283.2 | 304.2 | 343.3 | 349.7 | 337.9 | 332.4 | 332.4 |
| 65°   | 4689.3 | 4670.2 | 2824.1 | 418.9  | 260.5 | 287.8 | 327.9 | 337.0 | 321.5 | 320.6 | 320.6 |
| 67.5° | 4706.6 | 4694.7 | 2746.7 | 349.7  | 244.1 | 272.3 | 308.7 | 317.8 | 304.2 | 306.9 | 301.4 |
| 70°   | 4545.4 | 4458.9 | 2527.2 | 291.4  | 227.7 | 252.3 | 286.0 | 296.9 | 283.2 | 284.1 | 275.0 |
| 72.5° | 4204.8 | 3955.2 | 2139.3 | 247.7  | 209.5 | 230.4 | 261.4 | 271.4 | 258.6 | 255.9 | 245.9 |
| 75°   | 3631.9 | 3246.7 | 1489.0 | 214.9  | 190.3 | 206.7 | 231.3 | 241.3 | 233.1 | 219.5 | 216.8 |
| 77.5° | 2813.2 | 2379.7 | 912.5  | 185.8  | 173.0 | 182.1 | 200.4 | 205.8 | 197.6 | 181.2 | 178.5 |
| 80°   | 1773.2 | 1427.1 | 439.9  | 161.2  | 150.3 | 154.8 | 166.7 | 171.2 | 164.8 | 148.4 | 139.3 |
| 82.5° | 812.4  | 616.6  | 232.2  | 130.2  | 122.0 | 122.0 | 133.9 | 130.2 | 124.8 | 109.3 | 88.3  |
| 85°   | 189.4  | 194.9  | 107.5  | 80.1   | 77.4  | 69.2  | 80.1  | 79.2  | 71.0  | 54.6  | 45.5  |
| 87.5° | 31.0   | 34.6   | 27.3   | 24.6   | 20.0  | 15.5  | 17.3  | 14.6  | 12.8  | 6.4   | 2.7   |
| 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)