

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: P414428

Luminaire Tested: **LXF.LXT-PA1-20-827-U-T2U**

Issue Date: 10/26/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P414428  
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-PA1-20-827-U-T2U  
Description: DECORATIVE POST TOP LUMINAIRE  
(1) 80 CRI, 2700K, 260mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2058 lumens  
Efficiency: N/A  
Efficacy: 98.0 lumens/watt  
Luminous Opening: Rectangular (W 1.17' x L: 1.17' x H: 0')  
IES Classification: Type II - Short - Non-Cutoff  
BUG Rating: B1 - U0 - G1

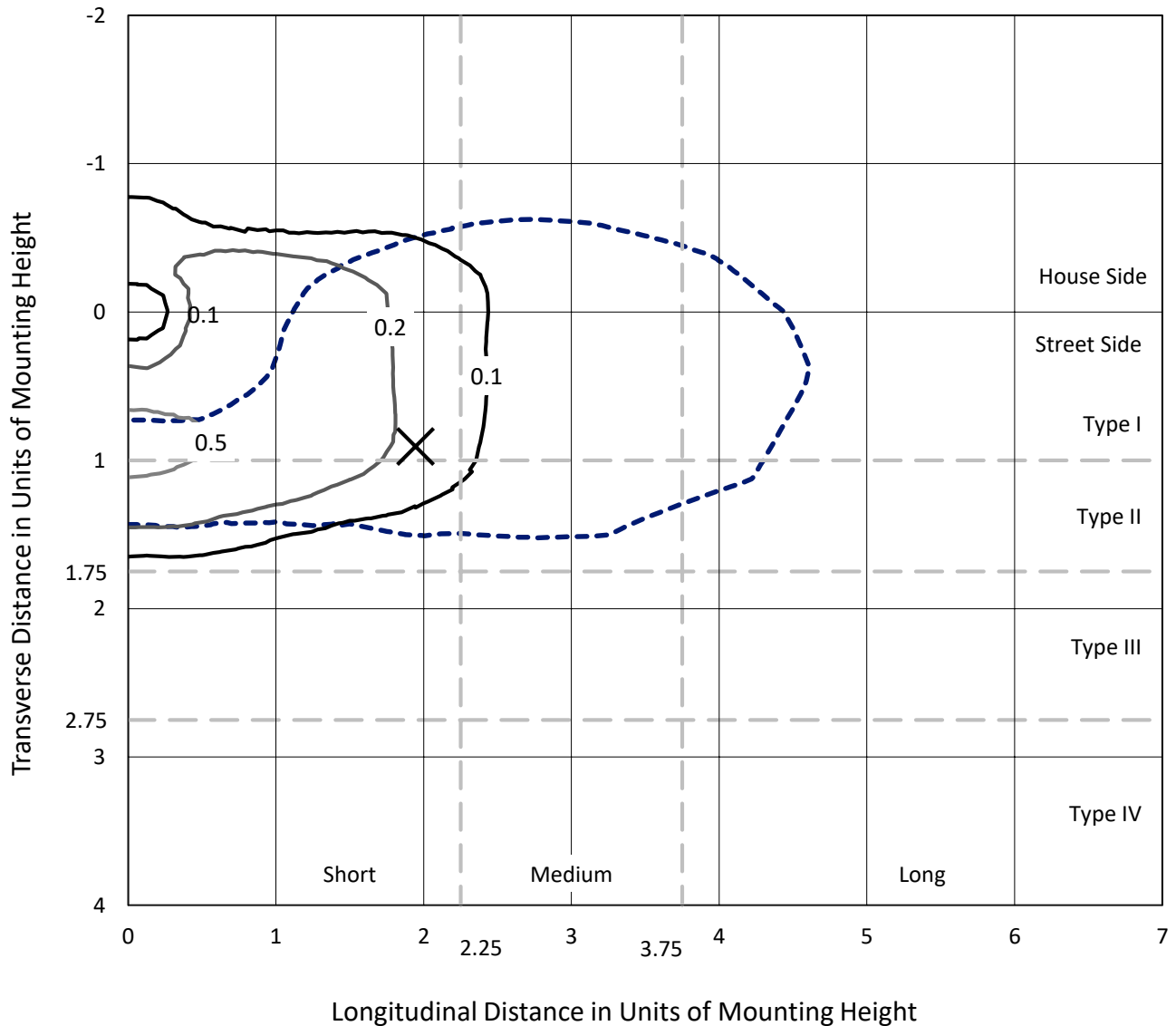
Input Watts (W): 21  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

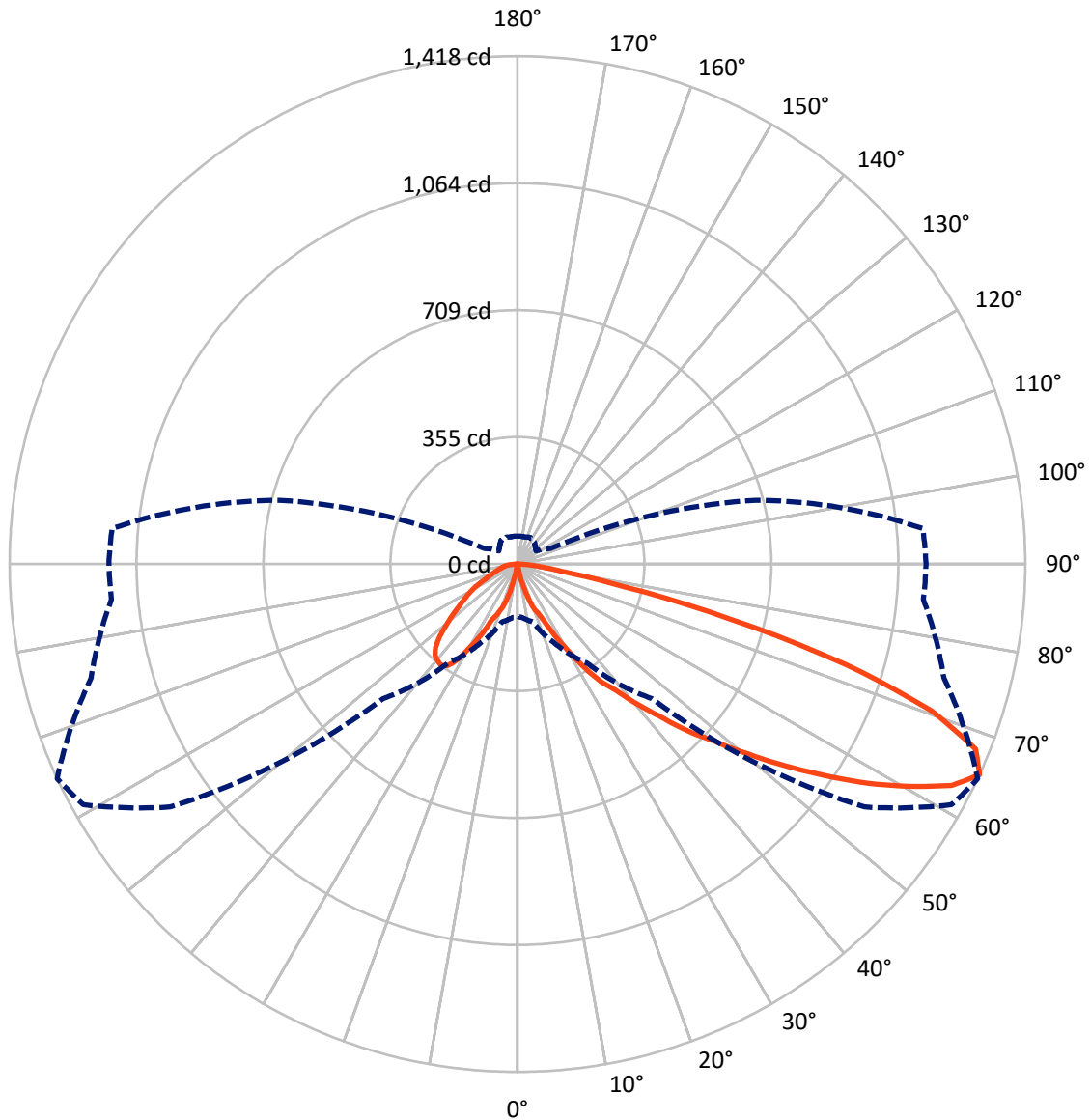
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.6 fc  
 Type 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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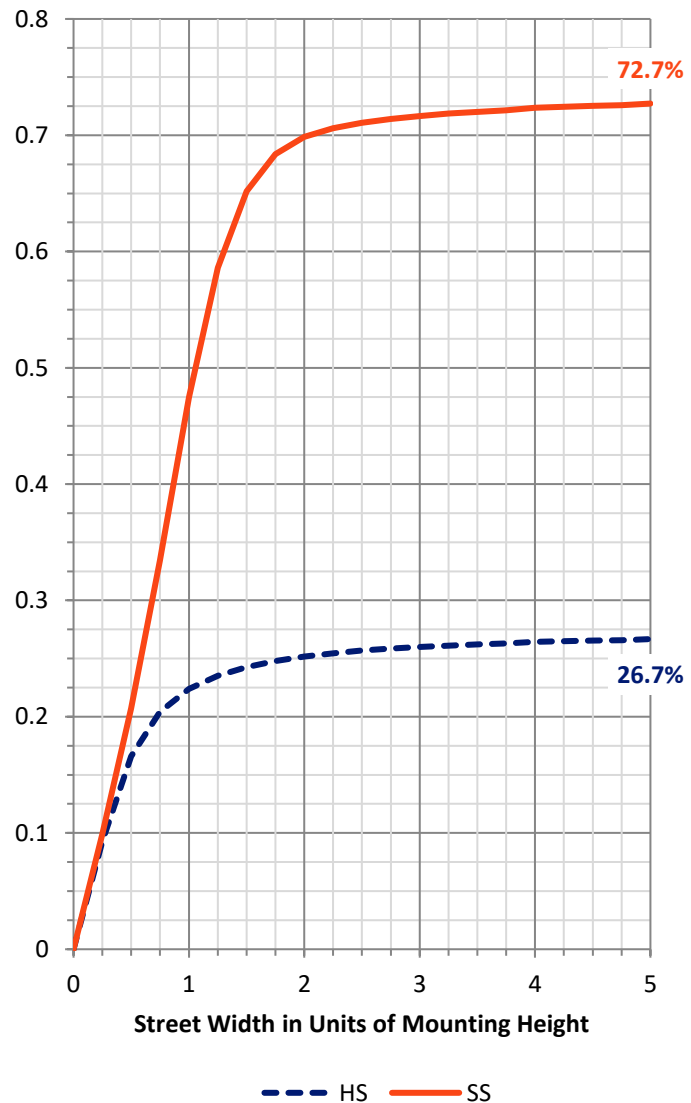
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 555.3    | 0.0    | 555.3  |
|                    | % Fixture | 27.0     | 0.0    | 27.0   |
| <b>Street Side</b> | Lumens    | 1502.7   | 0.0    | 1502.7 |
|                    | % Fixture | 73.0     | 0.0    | 73.0   |
| <b>Total</b>       | Lumens    | 2058.0   | 0.0    | 2058.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 1.5    | 0.1       |
| 10°-20°   | 22.7   | 1.1       |
| 20°-30°   | 87.5   | 4.3       |
| 30°-40°   | 219.1  | 10.6      |
| 40°-50°   | 407.9  | 19.8      |
| 50°-60°   | 534.1  | 26.0      |
| 60°-70°   | 478.8  | 23.3      |
| 70°-80°   | 263.4  | 12.8      |
| 80°-90°   | 43.0   | 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°    | 2058.0 | 100.0     |
| 0°-180°   | 2058.0 | 100.0     |



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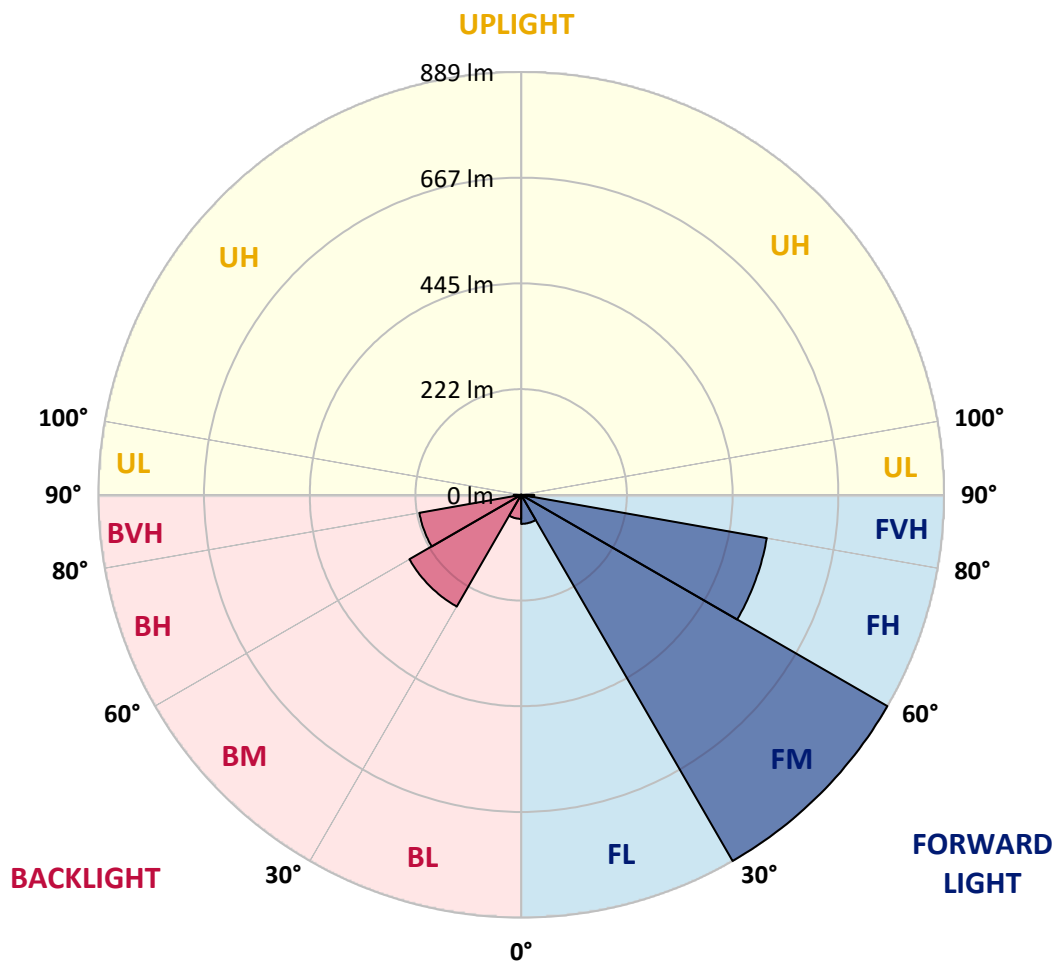
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |        |
|------|-------------|--------|-----------|-------------------------|------|--------|
|      |             |        |           | B                       | U    | G      |
| FL   | (0°-30°)    | 61.2   | 3.0       |                         |      |        |
| FM   | (30°-60°)   | 889.5  | 43.2      |                         |      |        |
| FH   | (60°-80°)   | 524.7  | 25.5      |                         |      | G0/660 |
| FVH  | (80°-90°)   | 27.3   | 1.3       |                         |      | G1/100 |
| BL   | (0°-30°)    | 50.6   | 2.5       | B0/110                  |      |        |
| BM   | (30°-60°)   | 271.5  | 13.2      | B1/1000                 |      |        |
| BH   | (60°-80°)   | 217.5  | 10.6      | B1/500                  |      | G1/500 |
| BVH  | (80°-90°)   | 15.7   | 0.8       |                         |      | 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 Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 61°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 0.7    | 0.7    | 0.7    | 0.7    | 0.7    | 0.7    | 0.7    | 0.7    | 0.7    | 0.7    | 0.7    |
| 2.5°  | 1.1    | 1.1    | 1.3    | 1.6    | 1.6    | 1.3    | 1.1    | 0.9    | 0.7    | 0.4    | 0.4    |
| 5°    | 10.2   | 9.1    | 7.1    | 4.9    | 2.9    | 2.2    | 1.8    | 1.3    | 1.1    | 0.7    | 0.4    |
| 7.5°  | 49.9   | 49.6   | 49.4   | 49.6   | 48.5   | 19.1   | 3.5    | 2.2    | 1.8    | 0.9    | 0.7    |
| 10°   | 50.1   | 49.9   | 49.6   | 50.1   | 50.1   | 49.4   | 47.0   | 6.9    | 3.5    | 2.2    | 2.2    |
| 12.5° | 89.1   | 86.0   | 59.4   | 52.3   | 50.5   | 50.5   | 50.5   | 45.2   | 43.0   | 31.7   | 38.3   |
| 15°   | 93.5   | 92.8   | 92.6   | 93.1   | 82.4   | 54.5   | 76.2   | 71.8   | 72.7   | 62.0   | 73.6   |
| 17.5° | 98.4   | 97.3   | 96.4   | 96.6   | 92.8   | 107.0  | 100.2  | 102.4  | 103.3  | 78.4   | 86.0   |
| 20°   | 152.5  | 152.5  | 140.9  | 106.8  | 117.2  | 134.3  | 110.8  | 121.7  | 134.7  | 117.2  | 120.3  |
| 22.5° | 173.1  | 171.5  | 170.0  | 161.1  | 147.4  | 146.5  | 161.1  | 141.2  | 149.8  | 172.2  | 159.1  |
| 25°   | 235.3  | 235.8  | 197.7  | 185.9  | 205.9  | 179.5  | 192.3  | 191.2  | 181.0  | 208.7  | 201.7  |
| 27.5° | 297.8  | 298.7  | 294.5  | 262.1  | 235.3  | 230.9  | 218.9  | 236.0  | 233.3  | 231.6  | 248.2  |
| 30°   | 356.1  | 355.9  | 336.8  | 323.3  | 308.9  | 283.2  | 269.9  | 273.4  | 284.1  | 274.3  | 309.6  |
| 32.5° | 495.5  | 491.7  | 471.3  | 385.6  | 363.4  | 339.3  | 335.5  | 325.5  | 346.8  | 339.9  | 372.5  |
| 35°   | 588.3  | 587.5  | 550.4  | 502.1  | 432.1  | 405.3  | 405.7  | 387.1  | 404.6  | 413.5  | 418.6  |
| 37.5° | 795.7  | 792.6  | 736.4  | 594.8  | 539.6  | 484.4  | 474.2  | 465.4  | 447.2  | 472.9  | 472.7  |
| 40°   | 907.4  | 898.6  | 848.9  | 755.6  | 633.5  | 567.1  | 545.8  | 526.7  | 513.7  | 528.7  | 526.7  |
| 42.5° | 994.3  | 987.4  | 952.4  | 855.8  | 756.1  | 704.5  | 625.1  | 607.0  | 580.6  | 598.5  | 589.2  |
| 45°   | 1056.6 | 1053.0 | 1021.8 | 950.0  | 873.5  | 835.6  | 714.6  | 686.3  | 663.5  | 661.0  | 655.5  |
| 47.5° | 1068.5 | 1061.0 | 1051.7 | 1011.4 | 978.8  | 967.5  | 825.4  | 776.5  | 738.8  | 731.7  | 722.4  |
| 50°   | 1012.0 | 1009.8 | 1022.0 | 1014.7 | 1054.4 | 1080.7 | 953.3  | 885.5  | 832.8  | 807.7  | 789.8  |
| 52.5° | 881.1  | 885.7  | 932.5  | 965.0  | 1063.9 | 1159.6 | 1073.4 | 1007.8 | 935.8  | 880.6  | 856.5  |
| 55°   | 700.0  | 716.9  | 786.2  | 854.0  | 1004.3 | 1193.7 | 1187.3 | 1135.7 | 1042.8 | 962.2  | 926.5  |
| 57.5° | 537.6  | 535.8  | 625.1  | 686.7  | 883.3  | 1170.9 | 1261.3 | 1246.7 | 1155.4 | 1046.8 | 993.4  |
| 60°   | 348.3  | 346.8  | 452.3  | 531.2  | 680.7  | 1053.9 | 1299.7 | 1338.0 | 1261.1 | 1119.9 | 1053.7 |
| 62.5° | 227.4  | 236.9  | 277.0  | 389.1  | 486.2  | 815.0  | 1286.8 | 1394.7 | 1361.7 | 1187.8 | 1111.5 |
| 65°   | 146.3  | 149.8  | 167.3  | 242.4  | 337.0  | 531.6  | 1182.7 | 1386.3 | 1418.2 | 1233.0 | 1137.9 |
| 67.5° | 109.0  | 109.9  | 118.3  | 150.7  | 229.4  | 277.9  | 928.3  | 1269.3 | 1379.9 | 1236.1 | 1129.3 |
| 70°   | 95.7   | 97.5   | 105.7  | 113.7  | 170.6  | 174.8  | 542.7  | 1020.4 | 1226.1 | 1191.5 | 1085.6 |
| 72.5° | 81.8   | 83.5   | 94.4   | 105.9  | 130.5  | 131.2  | 203.0  | 678.1  | 960.0  | 1101.1 | 1015.6 |
| 75°   | 66.7   | 67.8   | 77.3   | 92.8   | 108.8  | 105.3  | 117.4  | 306.5  | 614.5  | 915.2  | 905.9  |
| 77.5° | 53.8   | 54.7   | 61.6   | 74.0   | 96.4   | 80.7   | 87.5   | 131.4  | 305.4  | 660.8  | 733.9  |
| 80°   | 39.0   | 39.4   | 46.1   | 56.7   | 72.5   | 72.0   | 65.4   | 83.3   | 126.1  | 386.0  | 486.0  |
| 82.5° | 24.8   | 24.8   | 31.7   | 37.2   | 48.1   | 71.1   | 45.9   | 56.1   | 70.5   | 192.1  | 233.8  |
| 85°   | 14.0   | 14.4   | 19.9   | 21.7   | 28.1   | 43.2   | 33.0   | 31.0   | 38.1   | 69.6   | 57.6   |
| 87.5° | 2.7    | 3.3    | 5.8    | 6.2    | 7.3    | 10.2   | 12.0   | 10.9   | 11.3   | 16.2   | 9.5    |
| 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°    | 0.7    | 0.7    | 0.7   | 0.7   | 0.7   | 0.7   | 0.7   | 0.7   | 0.7   | 0.7   | 0.7   |
| 2.5°  | 0.4    | 0.7    | 0.9   | 0.9   | 0.9   | 0.9   | 0.9   | 0.9   | 0.9   | 0.7   | 0.7   |
| 5°    | 0.4    | 0.7    | 0.9   | 0.9   | 1.1   | 1.6   | 1.8   | 1.8   | 2.0   | 2.2   | 2.0   |
| 7.5°  | 0.4    | 0.7    | 0.9   | 1.3   | 1.8   | 3.5   | 12.9  | 45.4  | 48.8  | 49.4  | 50.3  |
| 10°   | 2.0    | 2.0    | 2.2   | 2.4   | 10.0  | 47.6  | 51.2  | 51.6  | 52.1  | 52.3  | 52.5  |
| 12.5° | 39.0   | 38.6   | 38.3  | 29.5  | 45.4  | 52.5  | 53.2  | 53.6  | 54.3  | 64.7  | 70.0  |
| 15°   | 74.5   | 74.7   | 70.9  | 68.0  | 79.1  | 57.6  | 61.4  | 94.8  | 98.2  | 99.3  | 99.9  |
| 17.5° | 85.3   | 89.1   | 79.1  | 105.0 | 104.1 | 87.8  | 96.6  | 101.7 | 102.2 | 102.8 | 103.0 |
| 20°   | 121.2  | 120.3  | 115.2 | 131.6 | 112.8 | 144.3 | 119.7 | 103.0 | 129.6 | 142.7 | 142.9 |
| 22.5° | 157.3  | 157.6  | 150.2 | 152.0 | 162.2 | 148.5 | 119.9 | 136.1 | 139.4 | 139.2 | 138.5 |
| 25°   | 202.8  | 201.0  | 197.4 | 169.1 | 191.5 | 161.5 | 159.5 | 131.8 | 132.3 | 142.9 | 149.8 |
| 27.5° | 248.0  | 243.5  | 229.6 | 219.2 | 198.8 | 179.7 | 150.7 | 142.7 | 153.8 | 153.1 | 153.3 |
| 30°   | 310.5  | 303.6  | 265.0 | 263.7 | 211.0 | 177.9 | 153.3 | 142.0 | 138.3 | 139.2 | 138.7 |
| 32.5° | 372.9  | 360.5  | 325.7 | 314.4 | 224.9 | 165.8 | 140.7 | 131.2 | 142.0 | 143.6 | 142.7 |
| 35°   | 411.5  | 401.3  | 389.3 | 344.4 | 226.5 | 152.7 | 127.4 | 129.6 | 129.0 | 128.3 | 128.7 |
| 37.5° | 456.5  | 439.9  | 429.5 | 354.6 | 213.6 | 136.3 | 121.4 | 119.7 | 130.3 | 130.5 | 129.6 |
| 40°   | 506.8  | 488.0  | 464.7 | 349.9 | 184.4 | 123.4 | 112.8 | 118.6 | 119.2 | 116.6 | 115.9 |
| 42.5° | 563.5  | 536.0  | 501.5 | 343.7 | 152.9 | 115.9 | 109.5 | 110.1 | 110.6 | 107.7 | 106.6 |
| 45°   | 620.7  | 588.6  | 532.9 | 326.4 | 130.1 | 108.4 | 104.4 | 104.1 | 101.9 | 99.3  | 98.6  |
| 47.5° | 684.7  | 647.1  | 558.9 | 296.3 | 113.9 | 102.6 | 101.0 | 96.8  | 97.5  | 95.1  | 94.8  |
| 50°   | 750.8  | 710.2  | 573.7 | 260.2 | 103.3 | 97.7  | 95.1  | 93.7  | 95.5  | 92.6  | 92.2  |
| 52.5° | 815.5  | 781.6  | 597.2 | 227.8 | 94.2  | 93.5  | 92.4  | 92.8  | 93.5  | 90.4  | 90.2  |
| 55°   | 885.7  | 861.3  | 618.7 | 197.0 | 86.2  | 87.8  | 91.5  | 91.3  | 91.1  | 88.2  | 88.2  |
| 57.5° | 950.2  | 938.2  | 640.6 | 173.3 | 80.0  | 82.7  | 89.5  | 89.5  | 88.4  | 86.0  | 85.8  |
| 60°   | 1025.1 | 1016.2 | 661.5 | 152.0 | 74.7  | 78.0  | 87.1  | 87.3  | 85.3  | 83.5  | 83.1  |
| 62.5° | 1093.1 | 1086.5 | 678.1 | 129.6 | 68.9  | 74.0  | 83.5  | 85.1  | 82.2  | 80.9  | 80.9  |
| 65°   | 1141.0 | 1136.3 | 687.2 | 101.9 | 63.4  | 70.0  | 79.8  | 82.0  | 78.2  | 78.0  | 78.0  |
| 67.5° | 1145.2 | 1142.3 | 668.3 | 85.1  | 59.4  | 66.3  | 75.1  | 77.3  | 74.0  | 74.7  | 73.3  |
| 70°   | 1106.0 | 1084.9 | 614.9 | 70.9  | 55.4  | 61.4  | 69.6  | 72.2  | 68.9  | 69.1  | 66.9  |
| 72.5° | 1023.1 | 962.4  | 520.5 | 60.3  | 51.0  | 56.1  | 63.6  | 66.0  | 62.9  | 62.3  | 59.8  |
| 75°   | 883.7  | 790.0  | 362.3 | 52.3  | 46.3  | 50.3  | 56.3  | 58.7  | 56.7  | 53.4  | 52.7  |
| 77.5° | 684.5  | 579.0  | 222.0 | 45.2  | 42.1  | 44.3  | 48.8  | 50.1  | 48.1  | 44.1  | 43.4  |
| 80°   | 431.4  | 347.2  | 107.0 | 39.2  | 36.6  | 37.7  | 40.6  | 41.7  | 40.1  | 36.1  | 33.9  |
| 82.5° | 197.7  | 150.0  | 56.5  | 31.7  | 29.7  | 29.7  | 32.6  | 31.7  | 30.4  | 26.6  | 21.5  |
| 85°   | 46.1   | 47.4   | 26.1  | 19.5  | 18.8  | 16.8  | 19.5  | 19.3  | 17.3  | 13.3  | 11.1  |
| 87.5° | 7.5    | 8.4    | 6.6   | 6.0   | 4.9   | 3.8   | 4.2   | 3.5   | 3.1   | 1.6   | 0.7   |
| 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)