

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: P416786

Luminaire Tested: **LXF.LXT-PA1-80-740-U-T4W**

Issue Date: 10/26/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P416786  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1907-433-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 10/26/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: LXF.LXT-PA1-80-740-U-T4W  
Description: DECORATIVE POST TOP LUMINAIRE  
(1) 70 CRI, 4000K, 1050mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9220.9 lumens  
Efficiency: N/A  
Efficacy: 111.1 lumens/watt  
Luminous Opening: Rectangular (W 1.17' x L: 1.17' x H: 0')  
IES Classification: Type IV - Medium - Non-Cutoff  
BUG Rating: B2 - U0 - G3

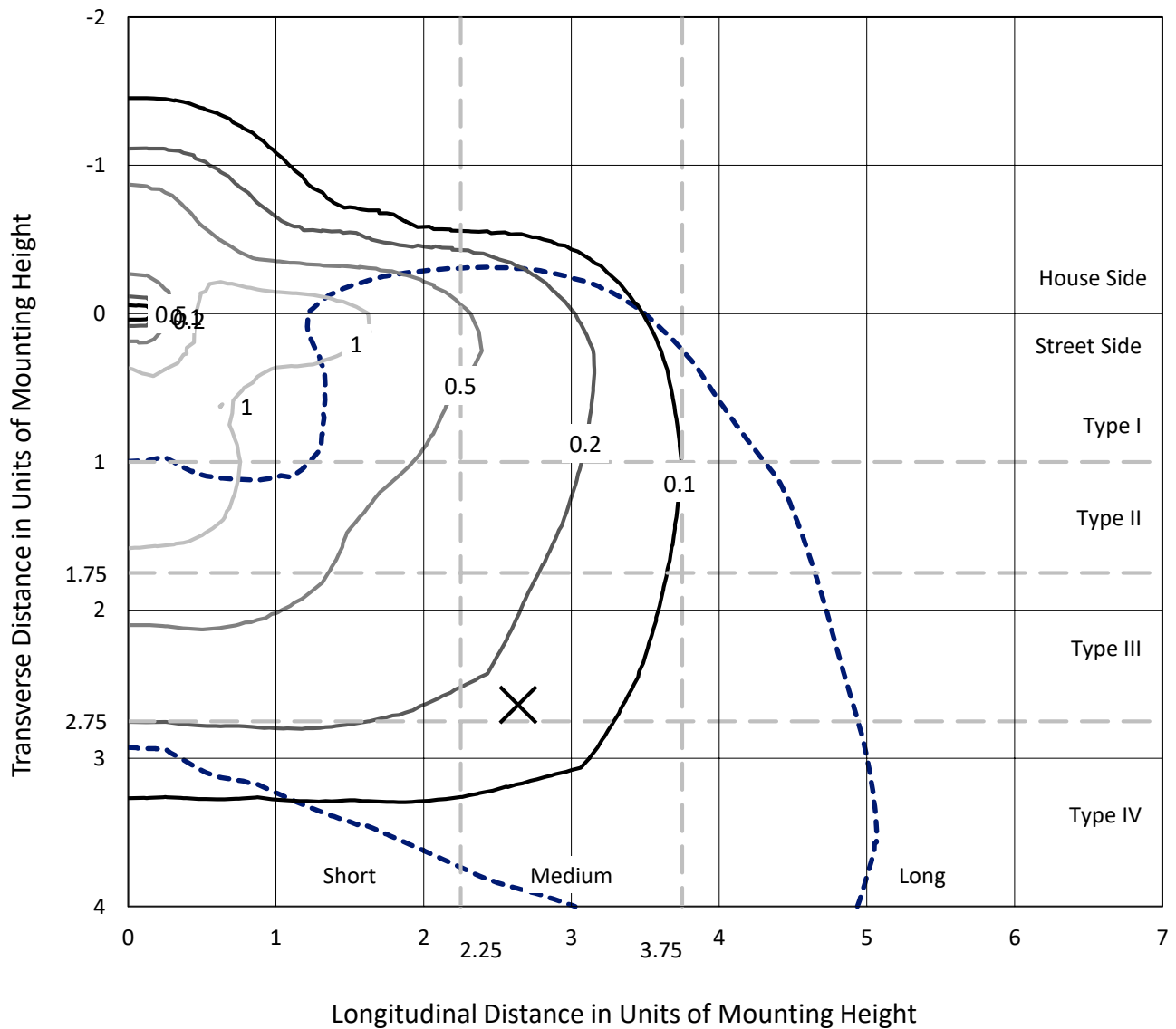
Input Watts (W): 83  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

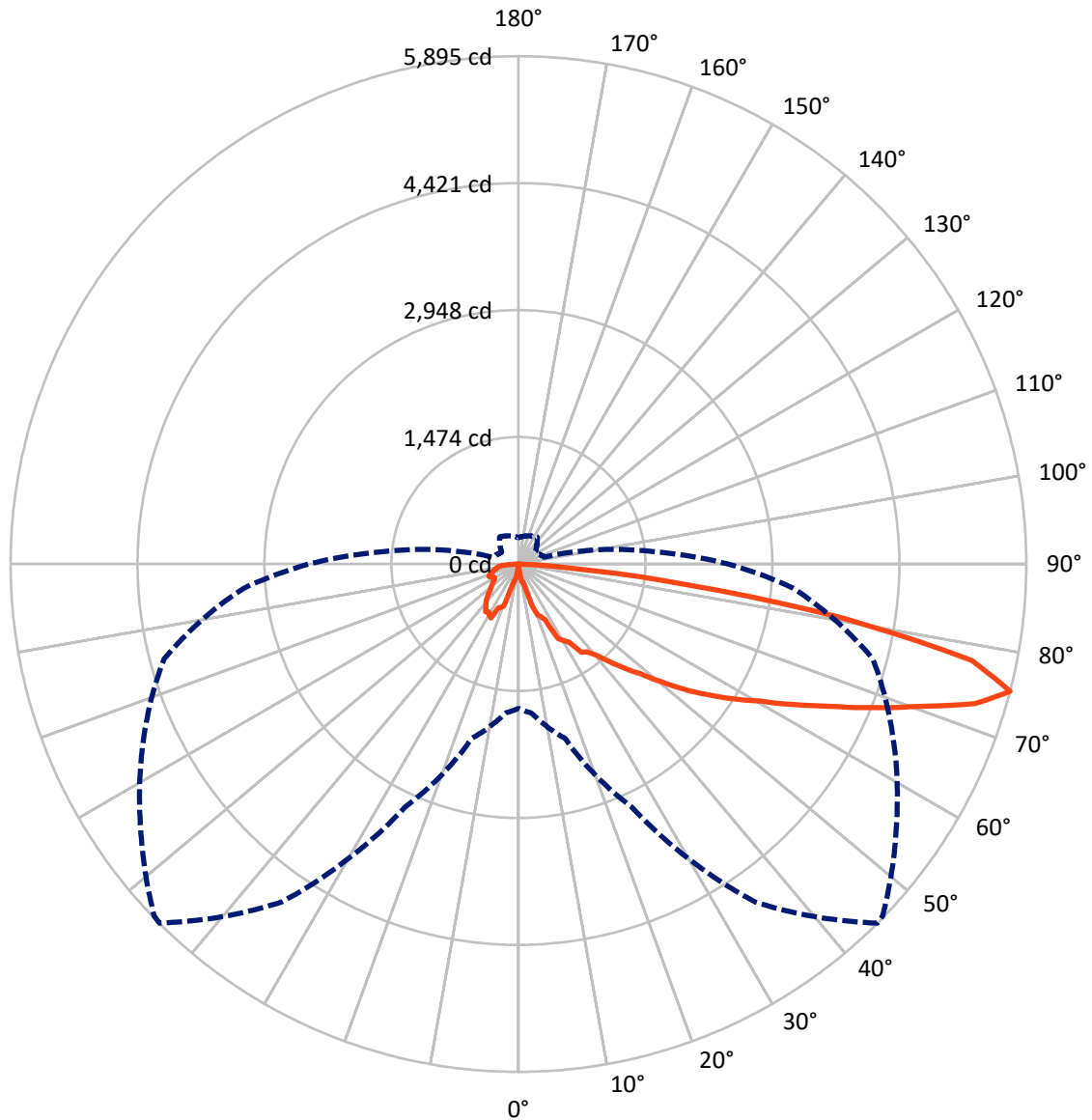
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.8 fc  
 Type IV - Medium - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 75-Deg Vertical

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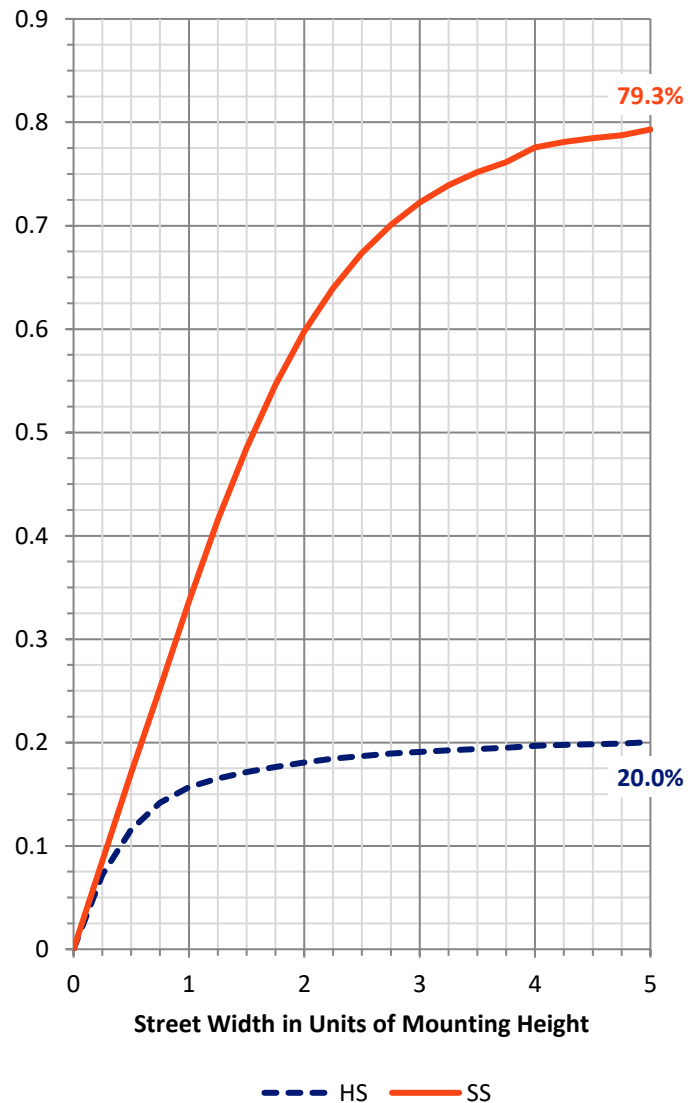
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1891.2   | 0.0    | 1891.2 |
|                    | % Fixture | 20.5     | 0.0    | 20.5   |
| <b>Street Side</b> | Lumens    | 7329.8   | 0.0    | 7329.8 |
|                    | % Fixture | 79.5     | 0.0    | 79.5   |
| <b>Total</b>       | Lumens    | 9220.9   | 0.0    | 9220.9 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 6.1    | 0.1       |
| 10°-20°   | 95.2   | 1.0       |
| 20°-30°   | 354.3  | 3.8       |
| 30°-40°   | 730.0  | 7.9       |
| 40°-50°   | 1157.5 | 12.6      |
| 50°-60°   | 1829.8 | 19.8      |
| 60°-70°   | 2570.7 | 27.9      |
| 70°-80°   | 2140.0 | 23.2      |
| 80°-90°   | 337.4  | 3.7       |
| 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°    | 9220.9 | 100.0     |
| 0°-180°   | 9220.9 | 100.0     |

**Coefficient of Utilization**



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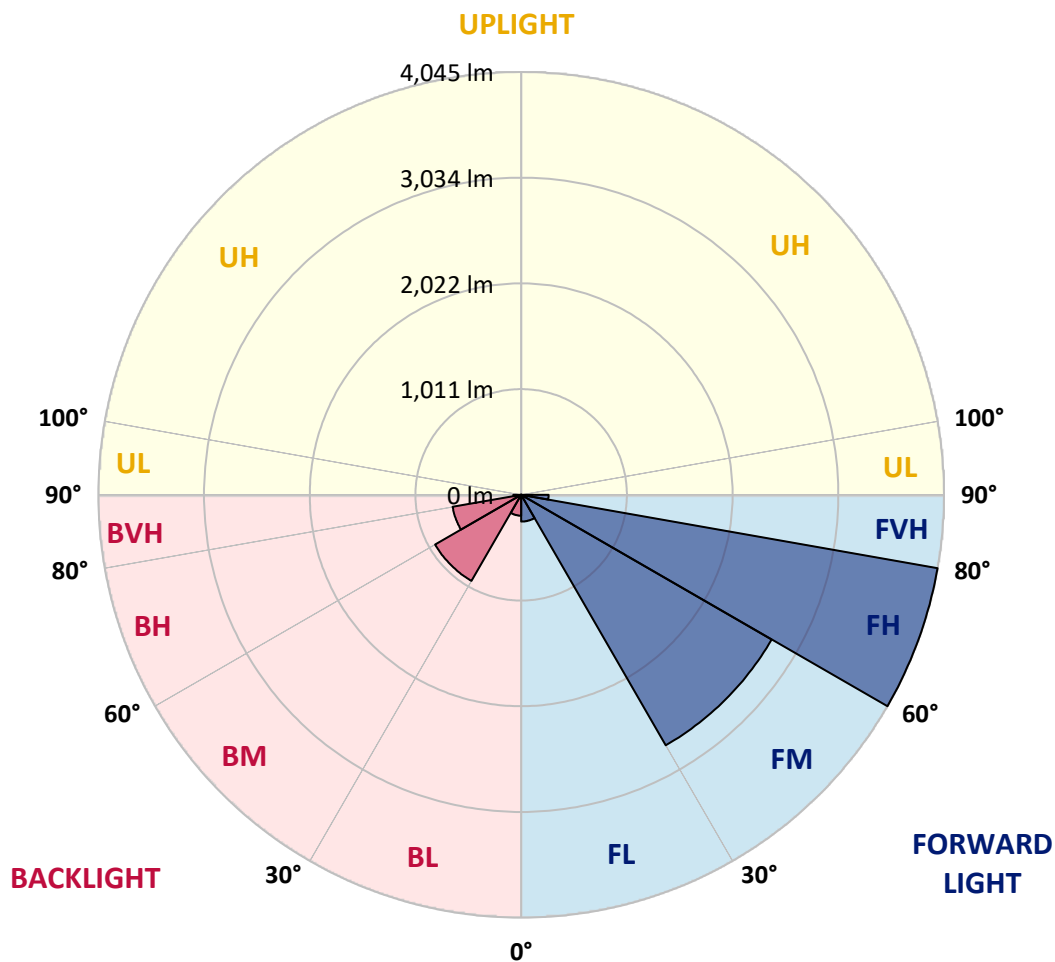
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 256.0  | 2.8       |                         |      |         |
| FM   | (30°-60°)   | 2766.7 | 30.0      |                         |      |         |
| FH   | (60°-80°)   | 4045.0 | 43.9      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 262.0  | 2.8       |                         |      | G3/500  |
| BL   | (0°-30°)    | 199.5  | 2.2       | B1/500                  |      |         |
| BM   | (30°-60°)   | 950.5  | 10.3      | B1/1000                 |      |         |
| BH   | (60°-80°)   | 665.8  | 7.2       | B2/1000                 |      | G2/1000 |
| BVH  | (80°-90°)   | 75.4   | 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-G3**

Type IV Medium





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 46°    | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2.0    | 2.0    | 2.0    | 2.0    | 2.0    | 2.0    | 2.0    | 2.0    | 2.0    | 2.0    | 2.0    |
| 2.5°  | 5.0    | 5.0    | 5.0    | 5.0    | 5.0    | 4.0    | 4.0    | 3.0    | 4.0    | 4.0    | 4.0    |
| 5°    | 71.0   | 67.0   | 53.0   | 47.0   | 39.0   | 16.0   | 13.0   | 6.0    | 5.0    | 5.0    | 4.0    |
| 7.5°  | 211.0  | 209.0  | 206.0  | 199.0  | 190.0  | 119.0  | 103.0  | 37.0   | 7.0    | 5.0    | 4.0    |
| 10°   | 233.0  | 229.0  | 224.0  | 217.0  | 209.0  | 199.0  | 198.0  | 182.0  | 33.0   | 11.0   | 9.0    |
| 12.5° | 458.0  | 450.0  | 376.0  | 272.0  | 225.0  | 213.0  | 213.0  | 206.0  | 149.0  | 52.0   | 122.0  |
| 15°   | 492.0  | 488.0  | 474.0  | 456.0  | 429.0  | 247.0  | 242.0  | 322.0  | 397.0  | 278.0  | 295.0  |
| 17.5° | 553.0  | 544.0  | 501.0  | 479.0  | 459.0  | 498.0  | 495.0  | 461.0  | 435.0  | 308.0  | 331.0  |
| 20°   | 771.0  | 766.0  | 748.0  | 536.0  | 494.0  | 630.0  | 632.0  | 523.0  | 473.0  | 545.0  | 541.0  |
| 22.5° | 789.0  | 788.0  | 775.0  | 743.0  | 783.0  | 661.0  | 662.0  | 695.0  | 691.0  | 723.0  | 656.0  |
| 25°   | 1032.0 | 1029.0 | 835.0  | 766.0  | 855.0  | 712.0  | 744.0  | 862.0  | 770.0  | 784.0  | 819.0  |
| 27.5° | 1059.0 | 1057.0 | 1046.0 | 998.0  | 885.0  | 981.0  | 981.0  | 891.0  | 981.0  | 1027.0 | 1033.0 |
| 30°   | 1204.1 | 1166.1 | 1089.1 | 1066.0 | 1031.0 | 1030.0 | 1033.0 | 1032.0 | 1135.1 | 1075.0 | 1135.1 |
| 32.5° | 1416.1 | 1408.1 | 1380.1 | 1156.1 | 1146.1 | 1080.1 | 1114.1 | 1192.1 | 1185.1 | 1367.1 | 1445.1 |
| 35°   | 1722.1 | 1613.1 | 1514.1 | 1334.1 | 1190.1 | 1258.1 | 1263.1 | 1236.1 | 1380.1 | 1438.1 | 1548.1 |
| 37.5° | 2149.1 | 2119.1 | 1979.1 | 1502.1 | 1326.1 | 1293.1 | 1296.1 | 1384.1 | 1467.1 | 1531.1 | 1654.1 |
| 40°   | 2460.1 | 2444.1 | 2347.1 | 1839.1 | 1454.1 | 1388.1 | 1395.1 | 1452.1 | 1529.1 | 1643.1 | 1771.1 |
| 42.5° | 2758.1 | 2758.1 | 2701.1 | 2127.1 | 1729.1 | 1550.1 | 1545.1 | 1557.1 | 1612.1 | 1732.1 | 1944.1 |
| 45°   | 2952.1 | 2941.1 | 2989.1 | 2398.1 | 1934.1 | 1724.1 | 1705.1 | 1702.1 | 1722.1 | 1864.1 | 2176.1 |
| 47.5° | 3147.1 | 3117.1 | 3163.1 | 2672.1 | 2202.1 | 1904.1 | 1906.1 | 1869.1 | 1896.1 | 2114.1 | 2493.1 |
| 50°   | 3353.2 | 3359.2 | 3353.2 | 2903.1 | 2465.1 | 2149.1 | 2132.1 | 2085.1 | 2139.1 | 2407.1 | 2848.1 |
| 52.5° | 3647.2 | 3626.2 | 3567.2 | 3197.1 | 2801.1 | 2421.1 | 2394.1 | 2326.1 | 2453.1 | 2752.1 | 3292.2 |
| 55°   | 3861.2 | 3841.2 | 3825.2 | 3512.2 | 3059.1 | 2684.1 | 2668.1 | 2593.1 | 2831.1 | 3100.1 | 3750.2 |
| 57.5° | 4094.2 | 4070.2 | 4116.2 | 3942.2 | 3464.2 | 2959.1 | 2938.1 | 2892.1 | 3219.1 | 3497.2 | 4216.2 |
| 60°   | 4251.2 | 4252.2 | 4378.2 | 4252.2 | 3802.2 | 3234.2 | 3214.1 | 3248.2 | 3574.2 | 3861.2 | 4719.2 |
| 62.5° | 4251.2 | 4284.2 | 4561.2 | 4591.2 | 4164.2 | 3593.2 | 3558.2 | 3577.2 | 3960.2 | 4243.2 | 5132.2 |
| 65°   | 3848.2 | 3889.2 | 4535.2 | 4689.2 | 4527.2 | 3981.2 | 3964.2 | 3952.2 | 4325.2 | 4545.2 | 5456.3 |
| 67.5° | 3437.2 | 3488.2 | 4141.2 | 4694.2 | 4824.2 | 4452.2 | 4390.2 | 4289.2 | 4640.2 | 4770.2 | 5630.3 |
| 70°   | 3152.1 | 3194.1 | 3713.2 | 4533.2 | 5016.2 | 4946.2 | 4905.2 | 4639.2 | 4851.2 | 4913.2 | 5434.3 |
| 72.5° | 2689.1 | 2693.1 | 3155.1 | 4193.2 | 5145.2 | 5543.3 | 5447.3 | 5027.2 | 4970.2 | 4820.2 | 4608.2 |
| 75°   | 1676.1 | 1737.1 | 2097.1 | 3112.1 | 4789.2 | 5895.3 | 5877.3 | 5353.2 | 4800.2 | 4259.2 | 3195.1 |
| 77.5° | 624.0  | 660.0  | 877.0  | 1598.1 | 3427.2 | 5377.2 | 5393.3 | 4999.2 | 4060.2 | 3086.1 | 1716.1 |
| 80°   | 203.0  | 218.0  | 290.0  | 515.0  | 1522.1 | 3827.2 | 3952.2 | 3546.2 | 2490.1 | 1568.1 | 723.0  |
| 82.5° | 113.0  | 109.0  | 168.0  | 267.0  | 650.0  | 1983.1 | 2065.1 | 1705.1 | 1174.1 | 656.0  | 270.0  |
| 85°   | 52.0   | 54.0   | 80.0   | 145.0  | 347.0  | 553.0  | 597.0  | 583.0  | 445.0  | 270.0  | 99.0   |
| 87.5° | 11.0   | 13.0   | 18.0   | 34.0   | 54.0   | 47.0   | 34.0   | 60.0   | 87.0   | 64.0   | 17.0   |
| 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°    | 2.0    | 2.0    | 2.0    | 2.0   | 2.0   | 2.0   | 2.0   | 2.0   | 2.0   | 2.0   | 2.0   |
| 2.5°  | 4.0    | 4.0    | 3.0    | 3.0   | 2.0   | 2.0   | 1.0   | 1.0   | 2.0   | 2.0   | 2.0   |
| 5°    | 4.0    | 4.0    | 3.0    | 3.0   | 3.0   | 3.0   | 4.0   | 7.0   | 8.0   | 9.0   | 8.0   |
| 7.5°  | 4.0    | 4.0    | 4.0    | 4.0   | 5.0   | 10.0  | 47.0  | 144.0 | 153.0 | 156.0 | 160.0 |
| 10°   | 9.0    | 8.0    | 8.0    | 9.0   | 31.0  | 151.0 | 182.0 | 192.0 | 197.0 | 200.0 | 199.0 |
| 12.5° | 139.0  | 138.0  | 51.0   | 31.0  | 145.0 | 191.0 | 196.0 | 202.0 | 212.0 | 222.0 | 218.0 |
| 15°   | 294.0  | 293.0  | 270.0  | 280.0 | 282.0 | 208.0 | 212.0 | 347.0 | 370.0 | 385.0 | 390.0 |
| 17.5° | 320.0  | 323.0  | 314.0  | 387.0 | 396.0 | 315.0 | 353.0 | 387.0 | 395.0 | 400.0 | 401.0 |
| 20°   | 594.0  | 534.0  | 457.0  | 433.0 | 422.0 | 520.0 | 394.0 | 398.0 | 514.0 | 551.0 | 555.0 |
| 22.5° | 653.0  | 648.0  | 606.0  | 624.0 | 527.0 | 542.0 | 510.0 | 538.0 | 590.0 | 601.0 | 601.0 |
| 25°   | 843.0  | 834.0  | 692.0  | 650.0 | 669.0 | 557.0 | 644.0 | 586.0 | 605.0 | 625.0 | 627.0 |
| 27.5° | 1036.0 | 1025.0 | 924.0  | 731.0 | 663.0 | 703.0 | 654.0 | 707.0 | 765.0 | 793.0 | 794.0 |
| 30°   | 1126.1 | 1111.1 | 964.0  | 824.0 | 690.0 | 688.0 | 687.0 | 782.0 | 777.0 | 795.0 | 800.0 |
| 32.5° | 1496.1 | 1472.1 | 1232.1 | 810.0 | 716.0 | 654.0 | 729.0 | 761.0 | 875.0 | 931.0 | 937.0 |
| 35°   | 1586.1 | 1556.1 | 1238.1 | 896.0 | 676.0 | 674.0 | 676.0 | 781.0 | 843.0 | 883.0 | 892.0 |
| 37.5° | 1689.1 | 1648.1 | 1224.1 | 840.0 | 692.0 | 628.0 | 643.0 | 705.0 | 840.0 | 930.0 | 937.0 |
| 40°   | 1817.1 | 1754.1 | 1220.1 | 784.0 | 645.0 | 594.0 | 591.0 | 674.0 | 734.0 | 789.0 | 794.0 |
| 42.5° | 1994.1 | 1893.1 | 1214.1 | 726.0 | 590.0 | 553.0 | 558.0 | 594.0 | 642.0 | 637.0 | 645.0 |
| 45°   | 2229.1 | 2066.1 | 1204.1 | 675.0 | 534.0 | 502.0 | 499.0 | 525.0 | 547.0 | 515.0 | 506.0 |
| 47.5° | 2523.1 | 2280.1 | 1220.1 | 626.0 | 482.0 | 452.0 | 453.0 | 464.0 | 468.0 | 433.0 | 425.0 |
| 50°   | 2857.1 | 2522.1 | 1237.1 | 572.0 | 440.0 | 417.0 | 412.0 | 416.0 | 410.0 | 376.0 | 373.0 |
| 52.5° | 3255.2 | 2806.1 | 1246.1 | 521.0 | 406.0 | 388.0 | 382.0 | 379.0 | 370.0 | 347.0 | 344.0 |
| 55°   | 3716.2 | 3147.1 | 1265.1 | 480.0 | 378.0 | 361.0 | 358.0 | 354.0 | 351.0 | 338.0 | 336.0 |
| 57.5° | 4188.2 | 3523.2 | 1254.1 | 438.0 | 351.0 | 336.0 | 342.0 | 349.0 | 357.0 | 352.0 | 351.0 |
| 60°   | 4621.2 | 3823.2 | 1118.1 | 401.0 | 325.0 | 321.0 | 347.0 | 380.0 | 386.0 | 391.0 | 390.0 |
| 62.5° | 4945.2 | 3974.2 | 887.0  | 369.0 | 307.0 | 322.0 | 385.0 | 431.0 | 425.0 | 412.0 | 409.0 |
| 65°   | 5059.2 | 3932.2 | 683.0  | 345.0 | 298.0 | 349.0 | 425.0 | 449.0 | 415.0 | 391.0 | 386.0 |
| 67.5° | 4983.2 | 3725.2 | 529.0  | 325.0 | 293.0 | 372.0 | 439.0 | 432.0 | 393.0 | 375.0 | 368.0 |
| 70°   | 4594.2 | 3294.2 | 420.0  | 308.0 | 288.0 | 358.0 | 432.0 | 412.0 | 375.0 | 359.0 | 348.0 |
| 72.5° | 3759.2 | 2605.1 | 360.0  | 289.0 | 267.0 | 329.0 | 410.0 | 385.0 | 359.0 | 338.0 | 328.0 |
| 75°   | 2431.1 | 1602.1 | 313.0  | 267.0 | 239.0 | 298.0 | 382.0 | 359.0 | 337.0 | 316.0 | 306.0 |
| 77.5° | 1170.1 | 728.0  | 274.0  | 240.0 | 213.0 | 275.0 | 359.0 | 332.0 | 310.0 | 289.0 | 277.0 |
| 80°   | 493.0  | 344.0  | 234.0  | 213.0 | 194.0 | 258.0 | 334.0 | 303.0 | 278.0 | 263.0 | 250.0 |
| 82.5° | 240.0  | 190.0  | 178.0  | 173.0 | 169.0 | 235.0 | 307.0 | 269.0 | 243.0 | 229.0 | 200.0 |
| 85°   | 81.0   | 82.0   | 110.0  | 107.0 | 119.0 | 188.0 | 251.0 | 204.0 | 182.0 | 158.0 | 148.0 |
| 87.5° | 8.0    | 11.0   | 15.0   | 19.0  | 39.0  | 52.0  | 86.0  | 70.0  | 55.0  | 21.0  | 14.0  |
| 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)