

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: P266191

Luminaire Tested: **LXF.LXT-AF24-80-D-U-T4W-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P266191
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1806-803-12-90°)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: LXF.LXT-AF24-80-D-U-T4W-7027
Description: DECORATIVE POST TOP LUMINAIRE
(1) 70 CRI, 2700K, 1050mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE 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: 6936.1 lumens
Efficiency: N/A
Efficacy: 83.6 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 - G2

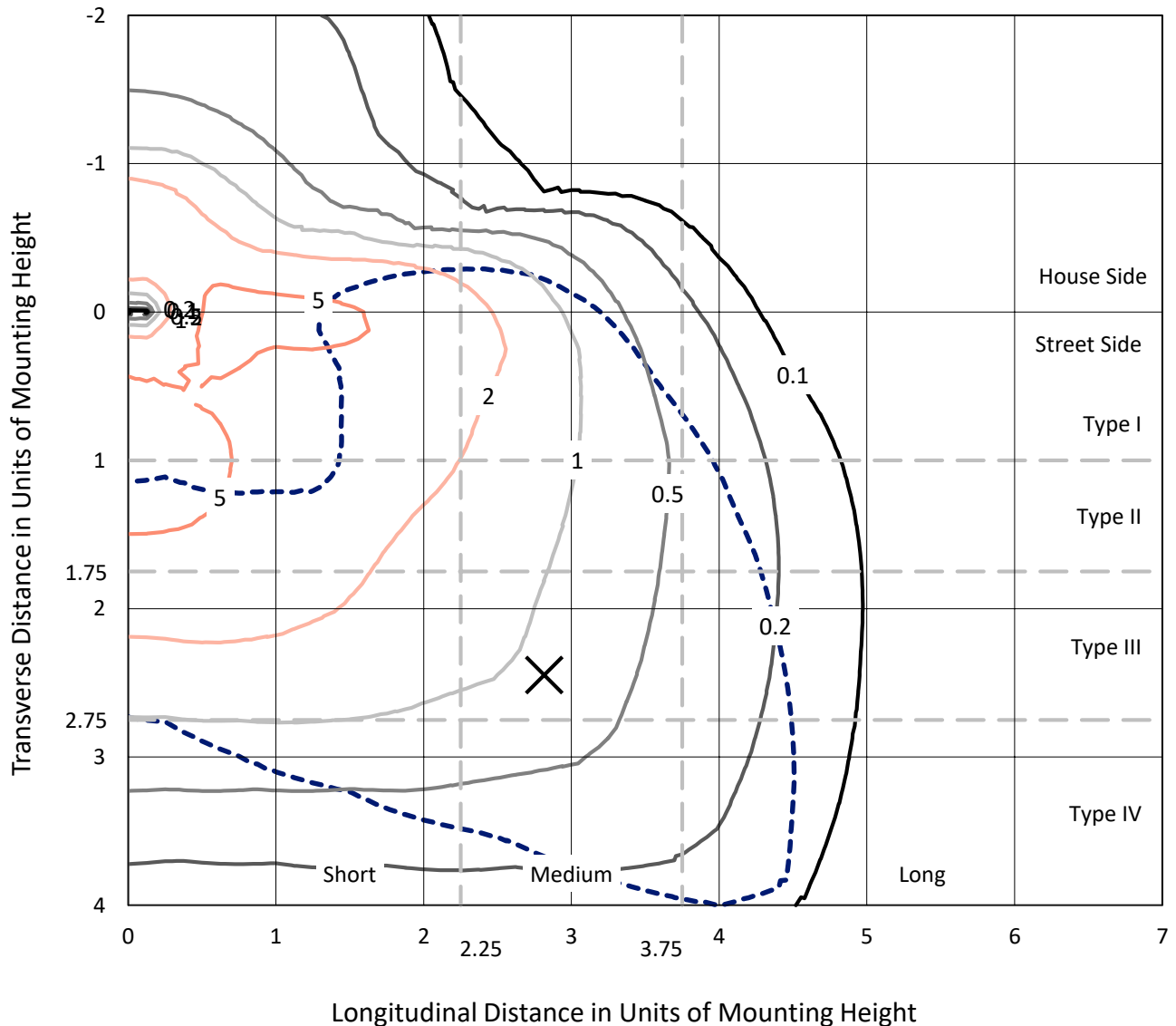
Input Watts (W): 83
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

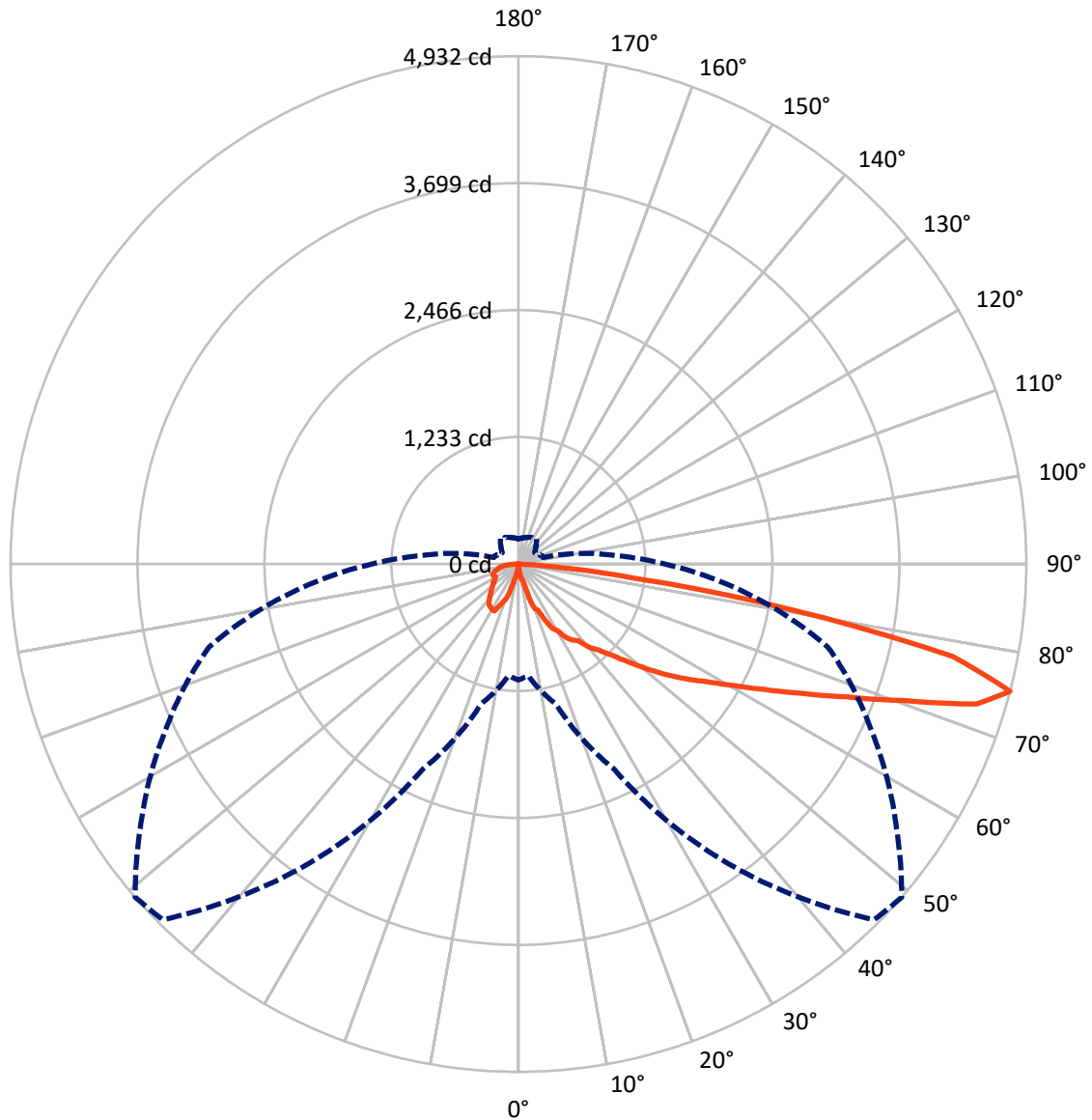
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8.7 fc
 Type IV - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 49-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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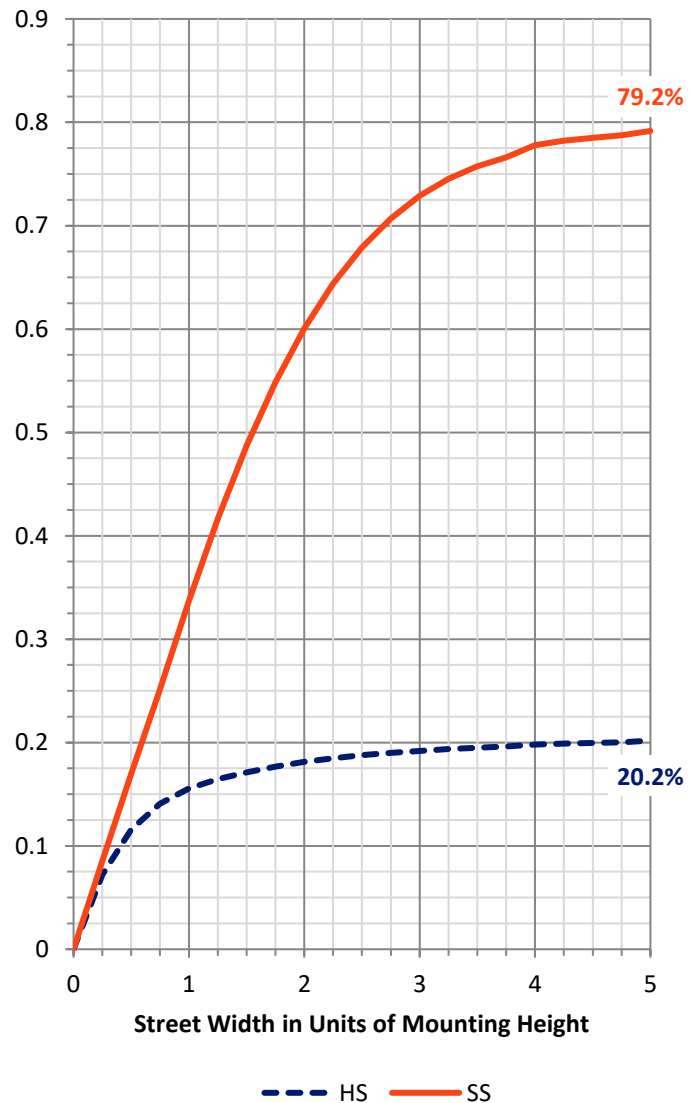
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1432.4 | 0.0 | 1432.4 |
| | % Fixture | 20.7 | 0.0 | 20.7 |
| Street Side | Lumens | 5503.7 | 0.0 | 5503.7 |
| | % Fixture | 79.3 | 0.0 | 79.3 |
| Total | Lumens | 6936.1 | 0.0 | 6936.1 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 4.5 | 0.1 |
| 10°-20° | 71.1 | 1.0 |
| 20°-30° | 261.7 | 3.8 |
| 30°-40° | 542.3 | 7.8 |
| 40°-50° | 869.5 | 12.5 |
| 50°-60° | 1385.4 | 20.0 |
| 60°-70° | 1984.0 | 28.6 |
| 70°-80° | 1600.2 | 23.1 |
| 80°-90° | 217.3 | 3.1 |
| 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° | 6936.1 | 100.0 |
| 0°-180° | 6936.1 | 100.0 |

Coefficient of Utilization



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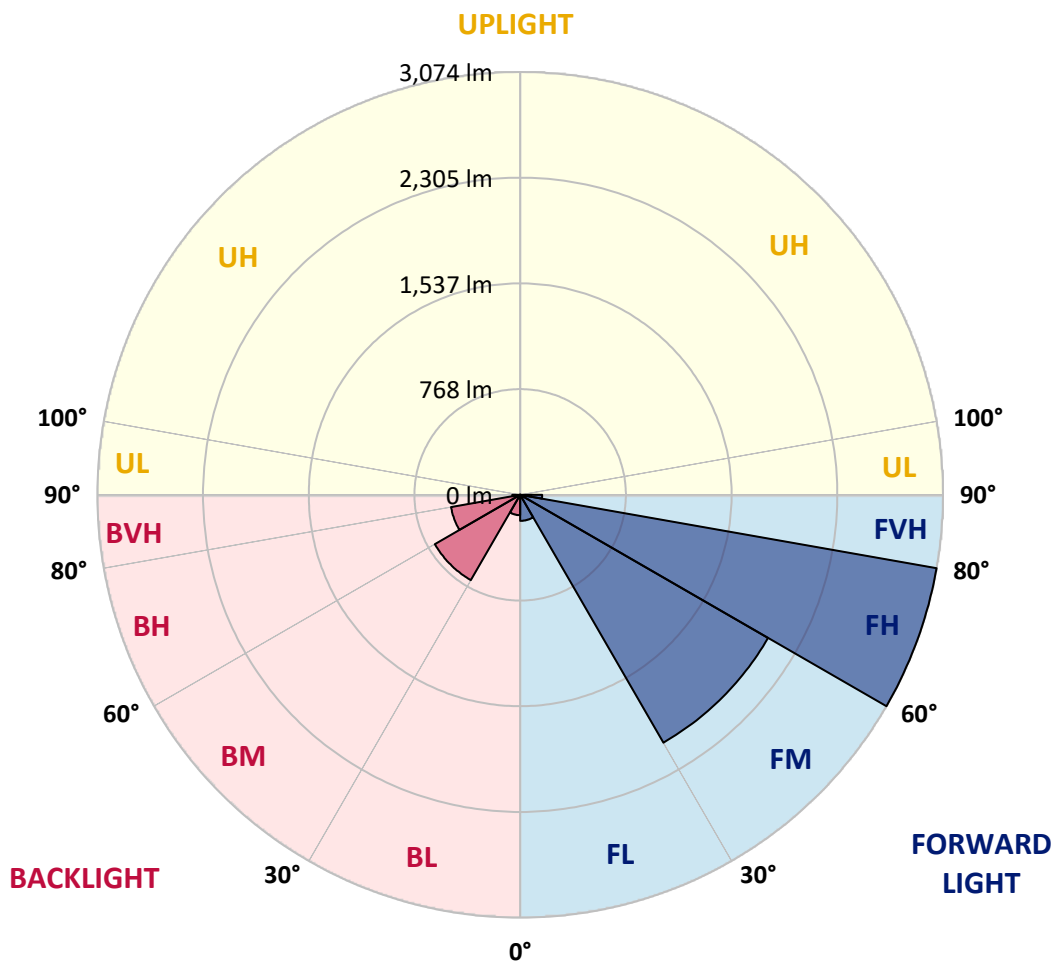
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 189.2 | 2.7 | | | |
| FM | (30°-60°) | 2080.8 | 30.0 | | | |
| FH | (60°-80°) | 3073.9 | 44.3 | | | G2/5000 |
| FVH | (80°-90°) | 159.7 | 2.3 | | | G2/225 |
| BL | (0°-30°) | 148.1 | 2.1 | B1/500 | | |
| BM | (30°-60°) | 716.4 | 10.3 | B1/1000 | | |
| BH | (60°-80°) | 510.4 | 7.4 | B2/1000 | | G2/1000 |
| BVH | (80°-90°) | 57.6 | 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 IV Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 49° | 55° | 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 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 1.5 | 0.8 |
| 5° | 125.0 | 100.3 | 72.5 | 35.8 | 29.5 | 18.2 | 9.5 | 3.1 | 1.5 | 1.5 | 1.5 |
| 7.5° | 150.3 | 148.8 | 146.5 | 144.8 | 137.7 | 125.8 | 78.1 | 27.8 | 6.4 | 2.3 | 1.5 |
| 10° | 171.0 | 166.4 | 161.5 | 158.5 | 151.3 | 142.4 | 139.2 | 130.6 | 25.4 | 5.6 | 4.9 |
| 12.5° | 328.7 | 326.3 | 315.1 | 202.2 | 171.8 | 155.9 | 153.6 | 148.0 | 111.4 | 38.2 | 40.7 |
| 15° | 356.5 | 355.6 | 346.1 | 335.1 | 314.3 | 185.4 | 179.8 | 187.8 | 292.8 | 208.4 | 218.1 |
| 17.5° | 408.3 | 405.9 | 380.4 | 354.1 | 339.7 | 369.3 | 382.8 | 348.5 | 323.1 | 241.1 | 243.5 |
| 20° | 557.8 | 558.7 | 544.4 | 437.7 | 369.3 | 467.9 | 464.8 | 411.5 | 353.4 | 465.5 | 434.5 |
| 22.5° | 574.6 | 572.9 | 563.4 | 541.1 | 595.2 | 488.7 | 487.8 | 471.2 | 515.6 | 536.4 | 491.8 |
| 25° | 747.3 | 745.7 | 631.9 | 564.2 | 627.8 | 553.0 | 607.3 | 625.5 | 565.8 | 578.6 | 553.9 |
| 27.5° | 769.6 | 768.1 | 757.6 | 729.8 | 651.8 | 717.8 | 708.3 | 659.7 | 709.9 | 768.8 | 760.0 |
| 30° | 963.0 | 910.4 | 800.6 | 784.0 | 749.6 | 747.3 | 751.3 | 772.0 | 825.3 | 790.2 | 826.0 |
| 32.5° | 1058.5 | 1049.7 | 1015.4 | 892.9 | 830.0 | 793.5 | 851.6 | 873.8 | 849.9 | 1002.7 | 1064.0 |
| 35° | 1391.8 | 1341.0 | 1151.5 | 998.7 | 896.1 | 913.5 | 906.4 | 898.5 | 1026.7 | 1049.0 | 1141.1 |
| 37.5° | 1717.4 | 1691.9 | 1543.1 | 1191.3 | 985.3 | 947.8 | 946.3 | 1020.3 | 1067.1 | 1134.0 | 1216.8 |
| 40° | 1933.8 | 1931.4 | 1828.1 | 1455.6 | 1116.6 | 1020.3 | 1064.9 | 1067.1 | 1123.7 | 1197.7 | 1308.3 |
| 42.5° | 2136.8 | 2125.6 | 2066.7 | 1677.6 | 1331.4 | 1138.1 | 1141.1 | 1141.9 | 1174.7 | 1270.9 | 1428.5 |
| 45° | 2246.7 | 2247.4 | 2268.8 | 1866.9 | 1526.4 | 1275.8 | 1256.5 | 1243.1 | 1273.3 | 1379.9 | 1606.8 |
| 47.5° | 2375.5 | 2376.2 | 2393.1 | 2042.8 | 1707.0 | 1444.5 | 1407.9 | 1366.4 | 1391.0 | 1541.5 | 1844.0 |
| 50° | 2517.2 | 2529.8 | 2522.7 | 2221.1 | 1896.4 | 1639.3 | 1583.7 | 1535.9 | 1571.8 | 1774.7 | 2146.3 |
| 52.5° | 2720.8 | 2701.1 | 2657.2 | 2401.8 | 2124.0 | 1841.5 | 1777.8 | 1720.6 | 1816.1 | 2036.5 | 2485.3 |
| 55° | 2855.4 | 2860.2 | 2826.7 | 2634.2 | 2329.3 | 2042.0 | 1965.8 | 1908.4 | 2096.1 | 2319.1 | 2886.4 |
| 57.5° | 2984.3 | 2992.3 | 3023.2 | 2942.0 | 2634.2 | 2237.9 | 2154.2 | 2129.6 | 2416.1 | 2662.8 | 3344.0 |
| 60° | 3085.4 | 3092.5 | 3185.7 | 3176.0 | 2893.6 | 2463.8 | 2391.4 | 2413.7 | 2730.5 | 2996.2 | 3787.3 |
| 62.5° | 3091.0 | 3117.9 | 3306.7 | 3393.3 | 3152.2 | 2734.4 | 2683.4 | 2740.0 | 3052.7 | 3333.7 | 4171.6 |
| 65° | 2808.5 | 2857.8 | 3316.9 | 3476.9 | 3436.3 | 3068.7 | 3028.0 | 3086.9 | 3398.2 | 3621.7 | 4382.6 |
| 67.5° | 2612.7 | 2648.5 | 3101.3 | 3520.6 | 3693.4 | 3486.5 | 3441.9 | 3444.3 | 3691.8 | 3770.5 | 4384.2 |
| 70° | 2448.7 | 2479.9 | 2882.4 | 3544.5 | 3976.6 | 4034.7 | 3969.5 | 3818.3 | 3905.9 | 3850.9 | 4009.3 |
| 72.5° | 2040.5 | 2037.3 | 2404.9 | 3196.0 | 4108.8 | 4689.7 | 4649.9 | 4283.8 | 4017.3 | 3688.6 | 3150.6 |
| 75° | 1126.0 | 1087.0 | 1407.9 | 2197.3 | 3551.7 | 4884.8 | 4931.6 | 4483.6 | 3773.1 | 3110.0 | 1975.3 |
| 77.5° | 343.8 | 323.1 | 465.5 | 933.5 | 2120.9 | 4133.6 | 4307.7 | 3836.7 | 2853.7 | 1960.1 | 957.4 |
| 80° | 157.6 | 158.5 | 210.9 | 335.1 | 863.5 | 2442.3 | 2685.0 | 2268.8 | 1523.2 | 909.7 | 401.9 |
| 82.5° | 81.9 | 83.5 | 131.3 | 190.3 | 413.0 | 959.7 | 1146.0 | 881.7 | 647.8 | 423.5 | 186.9 |
| 85° | 40.7 | 40.7 | 66.8 | 102.6 | 232.4 | 265.0 | 339.0 | 309.6 | 300.0 | 212.4 | 71.7 |
| 87.5° | 7.1 | 7.1 | 15.9 | 27.0 | 42.9 | 26.3 | 25.4 | 46.2 | 97.0 | 50.9 | 8.8 |
| 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° | 0.8 | 0.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 5° | 0.8 | 0.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.8 | 1.5 | 1.5 | 3.1 |
| 7.5° | 1.5 | 0.8 | 0.8 | 0.8 | 1.5 | 4.0 | 34.2 | 105.8 | 111.4 | 113.7 | 118.5 |
| 10° | 4.0 | 4.0 | 3.1 | 4.0 | 19.1 | 110.6 | 136.2 | 145.6 | 148.8 | 150.3 | 151.3 |
| 12.5° | 54.8 | 47.7 | 35.0 | 17.4 | 103.5 | 144.8 | 148.8 | 155.1 | 161.5 | 165.6 | 183.9 |
| 15° | 217.3 | 215.7 | 203.7 | 219.6 | 153.6 | 157.6 | 163.9 | 258.6 | 276.1 | 293.7 | 297.7 |
| 17.5° | 240.3 | 238.0 | 234.7 | 287.3 | 303.2 | 261.0 | 265.0 | 293.7 | 299.2 | 305.7 | 307.2 |
| 20° | 443.3 | 438.6 | 395.6 | 319.9 | 313.6 | 389.1 | 300.8 | 302.4 | 372.4 | 411.5 | 418.6 |
| 22.5° | 488.7 | 483.8 | 448.9 | 466.3 | 377.9 | 404.2 | 390.8 | 404.2 | 442.4 | 452.8 | 456.0 |
| 25° | 565.0 | 553.9 | 501.3 | 479.1 | 492.6 | 418.6 | 482.3 | 438.6 | 453.6 | 469.5 | 487.1 |
| 27.5° | 769.6 | 763.2 | 690.0 | 557.8 | 492.6 | 520.5 | 485.4 | 499.7 | 558.7 | 584.9 | 588.8 |
| 30° | 827.7 | 818.9 | 713.9 | 604.7 | 519.7 | 507.7 | 497.4 | 569.9 | 566.7 | 584.9 | 589.6 |
| 32.5° | 1105.4 | 1088.7 | 904.1 | 600.8 | 526.0 | 483.1 | 530.0 | 550.8 | 624.7 | 674.8 | 682.8 |
| 35° | 1168.2 | 1150.0 | 912.8 | 675.6 | 495.0 | 493.3 | 489.4 | 559.5 | 608.1 | 639.1 | 647.8 |
| 37.5° | 1246.3 | 1217.7 | 906.4 | 636.7 | 505.3 | 458.3 | 467.2 | 506.1 | 592.2 | 649.4 | 660.6 |
| 40° | 1349.8 | 1298.8 | 906.4 | 588.1 | 465.5 | 428.9 | 427.4 | 479.1 | 516.4 | 547.5 | 555.5 |
| 42.5° | 1489.0 | 1410.2 | 908.0 | 543.6 | 430.6 | 398.7 | 397.9 | 421.8 | 443.3 | 444.9 | 451.2 |
| 45° | 1670.4 | 1540.8 | 923.9 | 505.3 | 399.4 | 366.9 | 361.3 | 377.2 | 390.8 | 375.6 | 374.9 |
| 47.5° | 1894.9 | 1703.8 | 930.4 | 474.3 | 368.5 | 341.4 | 337.5 | 346.1 | 351.0 | 331.8 | 331.0 |
| 50° | 2166.3 | 1905.1 | 945.5 | 439.4 | 341.4 | 323.1 | 317.6 | 320.8 | 319.1 | 302.4 | 302.4 |
| 52.5° | 2495.8 | 2151.1 | 950.9 | 401.2 | 318.3 | 306.4 | 300.0 | 298.4 | 296.0 | 285.8 | 285.8 |
| 55° | 2880.9 | 2444.0 | 966.9 | 368.5 | 297.7 | 288.0 | 285.8 | 284.9 | 285.8 | 281.7 | 281.7 |
| 57.5° | 3282.0 | 2746.4 | 950.1 | 339.0 | 276.9 | 271.4 | 276.1 | 281.7 | 290.5 | 296.8 | 299.2 |
| 60° | 3632.0 | 3009.1 | 829.2 | 312.8 | 258.6 | 259.4 | 281.7 | 301.7 | 316.7 | 332.6 | 339.0 |
| 62.5° | 3894.0 | 3159.3 | 658.9 | 289.7 | 245.9 | 259.4 | 309.6 | 339.7 | 343.8 | 346.9 | 346.9 |
| 65° | 3962.3 | 3148.2 | 487.1 | 273.8 | 238.7 | 279.4 | 339.7 | 349.4 | 328.7 | 318.3 | 315.9 |
| 67.5° | 3827.9 | 2954.9 | 377.9 | 261.0 | 234.0 | 295.3 | 351.7 | 332.6 | 311.2 | 304.7 | 299.2 |
| 70° | 3387.0 | 2510.0 | 318.3 | 248.3 | 229.2 | 284.1 | 345.4 | 317.6 | 296.8 | 290.5 | 281.7 |
| 72.5° | 2515.6 | 1778.6 | 279.4 | 234.0 | 216.4 | 263.5 | 328.7 | 303.2 | 283.3 | 272.9 | 264.2 |
| 75° | 1419.0 | 939.8 | 249.9 | 219.6 | 191.8 | 239.6 | 304.7 | 284.9 | 265.8 | 250.6 | 245.1 |
| 77.5° | 627.8 | 397.1 | 222.1 | 197.4 | 171.0 | 218.8 | 280.1 | 261.0 | 242.7 | 226.1 | 221.3 |
| 80° | 292.0 | 228.3 | 190.3 | 171.0 | 153.6 | 202.9 | 257.9 | 233.2 | 215.7 | 204.5 | 195.8 |
| 82.5° | 160.7 | 140.0 | 142.4 | 136.9 | 132.9 | 179.8 | 233.2 | 203.7 | 183.9 | 182.3 | 149.6 |
| 85° | 58.8 | 62.9 | 83.5 | 81.1 | 87.6 | 137.7 | 192.5 | 150.3 | 132.1 | 111.4 | 107.4 |
| 87.5° | 1.5 | 4.0 | 7.9 | 13.6 | 22.3 | 42.9 | 69.2 | 64.5 | 50.9 | 33.4 | 36.7 |
| 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)