

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: P200668

Luminaire Tested: **GAP-AF-02-LED-U-T3-8030-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P200668  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24140)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAP-AF-02-LED-U-T3-8030-600  
Description: GALLEON PEDESTRIAN LUMINAIRE  
(2) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6681 lumens  
Efficiency: N/A  
Efficacy: 101.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short - Full Cutoff  
BUG Rating: B1 - U0 - G2

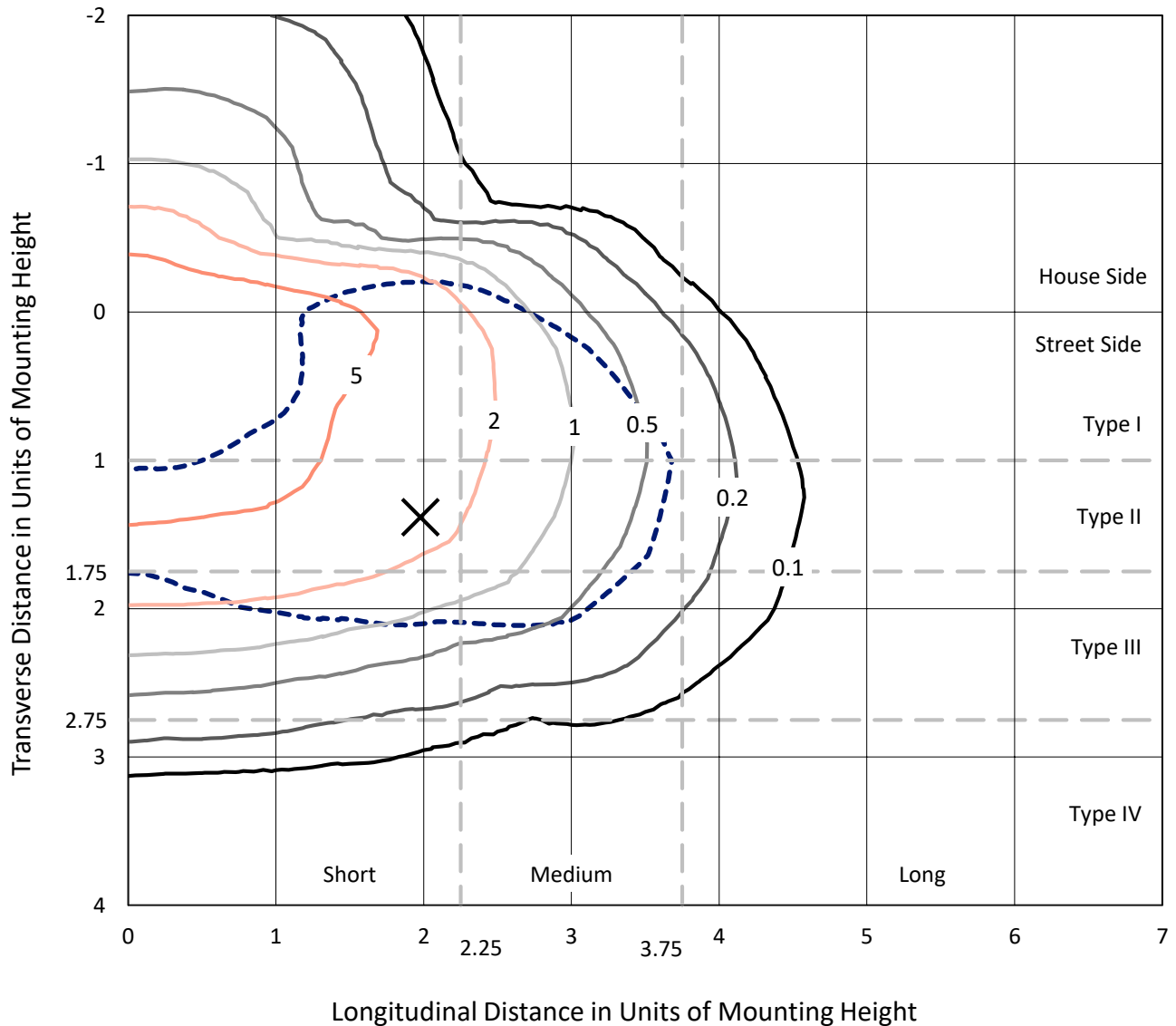
Input Watts (W): 66  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

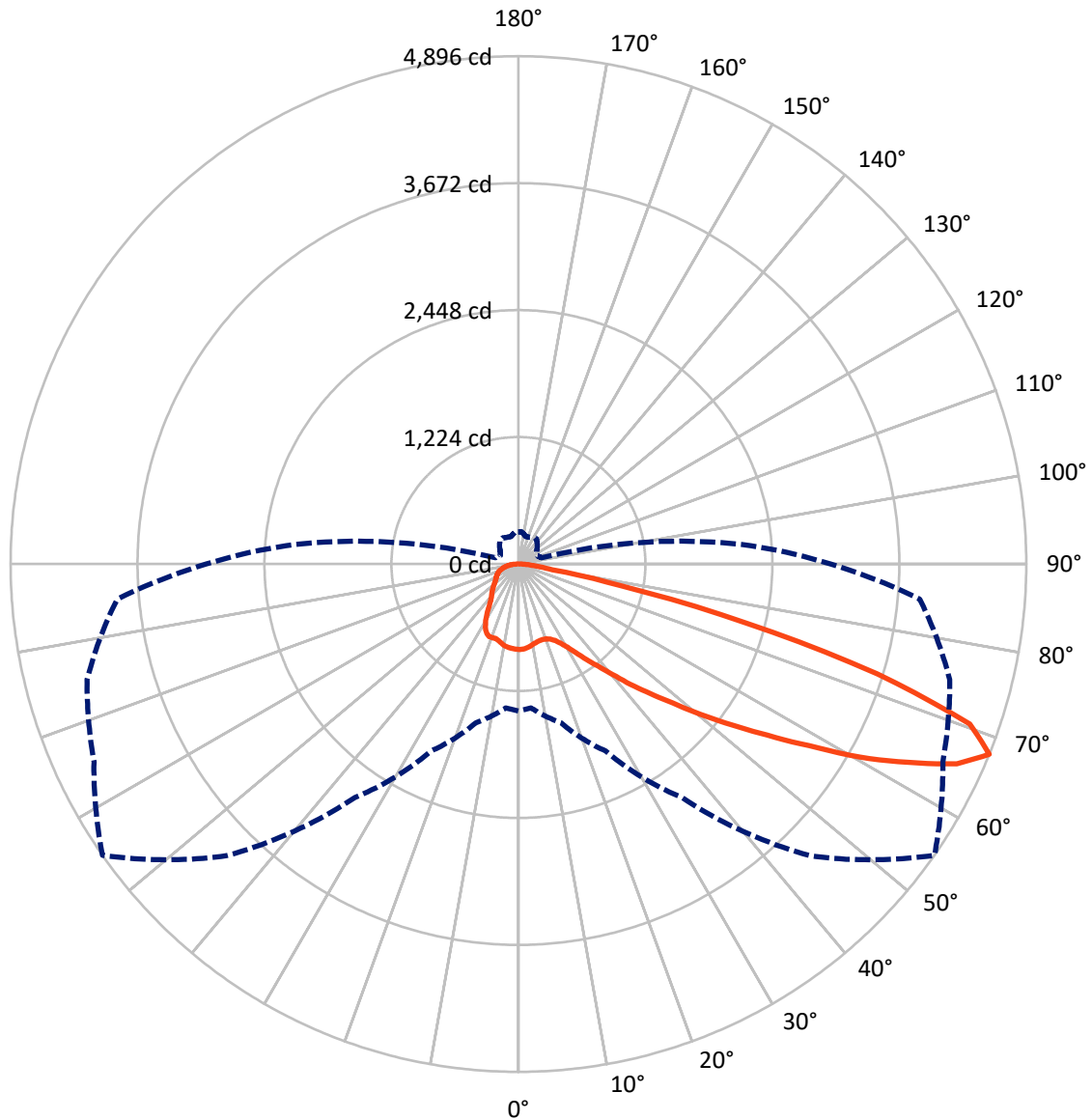
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8.5 fc  
 Type III - Short - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1443.2   | 0.0    | 1443.2 |
|                    | % Fixture | 21.6     | 0.0    | 21.6   |
| <b>Street Side</b> | Lumens    | 5237.8   | 0.0    | 5237.8 |
|                    | % Fixture | 78.4     | 0.0    | 78.4   |
| <b>Total</b>       | Lumens    | 6681.0   | 0.0    | 6681.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 76.9   | 1.2       |
| 10°-20°   | 217.8  | 3.3       |
| 20°-30°   | 364.8  | 5.5       |
| 30°-40°   | 599.9  | 9.0       |
| 40°-50°   | 1009.8 | 15.1      |
| 50°-60°   | 1589.4 | 23.8      |
| 60°-70°   | 1896.8 | 28.4      |
| 70°-80°   | 814.5  | 12.2      |
| 80°-90°   | 111.1  | 1.7       |
| 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°    | 6681.0 | 100.0     |
| 0°-180°   | 6681.0 | 100.0     |

**Coefficient of Utilization**



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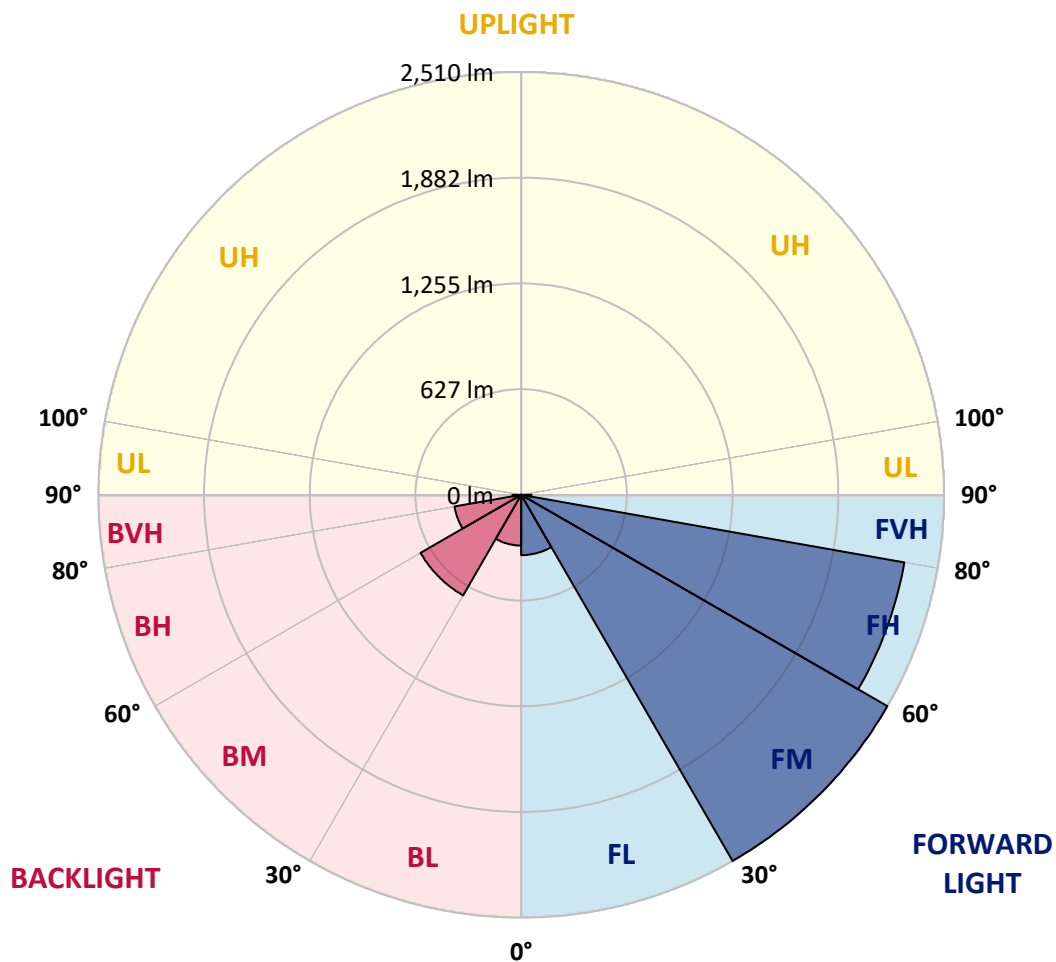
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 358.1  | 5.4       |                         |      |         |
| FM   | (30°-60°)   | 2509.9 | 37.6      |                         |      |         |
| FH   | (60°-80°)   | 2309.6 | 34.6      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 60.1   | 0.9       |                         |      | G1/100  |
| BL   | (0°-30°)    | 301.4  | 4.5       | B1/500                  |      |         |
| BM   | (30°-60°)   | 689.3  | 10.3      | B1/1000                 |      |         |
| BH   | (60°-80°)   | 401.6  | 6.0       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 50.9   | 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-G2**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 823.8  | 823.8  | 823.8  | 823.8  | 823.8  | 823.8  | 823.8  | 823.8  | 823.8  | 823.8  | 823.8  |
| 2.5°  | 816.7  | 817.1  | 817.7  | 820.3  | 822.5  | 821.9  | 822.2  | 820.9  | 820.6  | 818.7  | 820.6  |
| 5°    | 806.4  | 807.4  | 807.7  | 811.9  | 814.5  | 815.1  | 814.2  | 812.5  | 810.6  | 808.7  | 809.6  |
| 7.5°  | 782.9  | 785.4  | 785.8  | 791.6  | 795.8  | 801.3  | 801.6  | 801.9  | 800.9  | 799.6  | 801.6  |
| 10°   | 768.0  | 768.7  | 768.3  | 772.5  | 775.8  | 781.9  | 785.4  | 791.6  | 794.2  | 794.8  | 796.1  |
| 12.5° | 767.0  | 766.4  | 765.4  | 765.4  | 764.5  | 767.0  | 773.5  | 782.2  | 788.3  | 790.3  | 791.9  |
| 15°   | 777.4  | 777.0  | 773.8  | 769.0  | 762.9  | 760.9  | 766.4  | 776.1  | 784.1  | 788.3  | 790.0  |
| 17.5° | 800.6  | 798.7  | 793.5  | 782.5  | 769.3  | 764.1  | 764.8  | 772.9  | 782.2  | 787.7  | 789.3  |
| 20°   | 843.2  | 843.2  | 832.2  | 811.6  | 788.0  | 775.8  | 770.0  | 774.8  | 783.8  | 791.2  | 793.5  |
| 22.5° | 916.8  | 917.4  | 899.0  | 865.1  | 825.5  | 799.3  | 784.8  | 783.8  | 794.5  | 802.9  | 805.4  |
| 25°   | 1021.0 | 1018.4 | 992.6  | 944.2  | 883.9  | 840.6  | 815.5  | 809.6  | 818.7  | 828.0  | 831.3  |
| 27.5° | 1142.3 | 1133.0 | 1102.3 | 1043.9 | 965.8  | 902.6  | 863.9  | 854.5  | 863.2  | 873.9  | 877.1  |
| 30°   | 1262.4 | 1252.7 | 1216.2 | 1152.3 | 1065.5 | 985.5  | 930.0  | 914.8  | 927.1  | 942.3  | 944.2  |
| 32.5° | 1382.4 | 1382.4 | 1341.8 | 1267.2 | 1172.7 | 1084.6 | 1018.1 | 1000.0 | 1020.4 | 1038.8 | 1043.0 |
| 35°   | 1526.0 | 1526.7 | 1487.3 | 1397.6 | 1295.9 | 1202.7 | 1129.4 | 1116.2 | 1146.9 | 1159.8 | 1169.8 |
| 37.5° | 1702.5 | 1706.1 | 1655.4 | 1547.0 | 1435.7 | 1337.6 | 1250.4 | 1232.4 | 1263.0 | 1298.2 | 1330.5 |
| 40°   | 1893.3 | 1897.8 | 1841.9 | 1708.3 | 1597.0 | 1494.4 | 1400.2 | 1367.6 | 1418.6 | 1485.7 | 1527.3 |
| 42.5° | 2075.3 | 2098.5 | 2044.6 | 1907.1 | 1787.4 | 1681.2 | 1585.7 | 1538.3 | 1602.2 | 1703.5 | 1739.6 |
| 45°   | 2338.2 | 2355.0 | 2261.1 | 2136.6 | 2023.9 | 1905.2 | 1778.7 | 1728.7 | 1818.1 | 1945.9 | 1953.3 |
| 47.5° | 2513.5 | 2500.9 | 2453.1 | 2375.7 | 2304.4 | 2193.4 | 2003.0 | 1948.1 | 2066.9 | 2217.2 | 2175.6 |
| 50°   | 2606.7 | 2610.6 | 2604.1 | 2608.7 | 2611.2 | 2541.5 | 2277.9 | 2202.7 | 2344.4 | 2526.1 | 2430.2 |
| 52.5° | 2693.9 | 2668.0 | 2689.3 | 2795.2 | 2923.0 | 2897.2 | 2577.0 | 2498.6 | 2641.9 | 2868.8 | 2699.3 |
| 55°   | 2691.9 | 2652.6 | 2721.9 | 2908.8 | 3186.0 | 3215.7 | 2913.0 | 2822.6 | 2956.5 | 3236.3 | 2984.6 |
| 57.5° | 2596.7 | 2598.7 | 2705.5 | 2950.1 | 3369.3 | 3515.1 | 3302.8 | 3167.3 | 3290.2 | 3608.7 | 3245.0 |
| 60°   | 2465.7 | 2483.5 | 2637.4 | 2943.3 | 3516.1 | 3760.7 | 3781.0 | 3538.7 | 3617.1 | 3947.2 | 3460.6 |
| 62.5° | 2254.3 | 2273.1 | 2485.4 | 2873.0 | 3493.8 | 3997.2 | 4213.4 | 3960.1 | 3958.8 | 4152.4 | 3523.8 |
| 65°   | 1921.0 | 1915.5 | 2138.5 | 2610.0 | 3307.0 | 4172.1 | 4642.9 | 4324.4 | 4216.3 | 4155.7 | 3396.7 |
| 67.5° | 1416.6 | 1392.1 | 1583.5 | 1987.8 | 2748.7 | 3976.2 | 4895.6 | 4514.2 | 4304.1 | 3882.3 | 3008.2 |
| 70°   | 735.1  | 710.6  | 865.5  | 1160.7 | 1807.7 | 3103.4 | 4615.8 | 4416.1 | 4110.2 | 3254.4 | 2356.6 |
| 72.5° | 314.3  | 310.1  | 373.0  | 509.2  | 874.5  | 1790.0 | 3619.3 | 3822.3 | 3526.7 | 2424.7 | 1620.3 |
| 75°   | 211.4  | 210.1  | 233.6  | 277.5  | 393.4  | 726.4  | 2265.0 | 2713.2 | 2580.3 | 1503.4 | 911.3  |
| 77.5° | 165.9  | 164.3  | 178.1  | 199.4  | 254.9  | 286.6  | 1005.2 | 1456.6 | 1348.2 | 654.4  | 398.9  |
| 80°   | 129.7  | 128.4  | 137.1  | 148.8  | 183.3  | 180.7  | 330.8  | 579.6  | 448.5  | 250.7  | 193.9  |
| 82.5° | 102.3  | 102.3  | 109.4  | 109.7  | 130.0  | 123.3  | 172.6  | 255.3  | 224.0  | 146.2  | 118.8  |
| 85°   | 93.6   | 93.6   | 101.0  | 82.0   | 84.9   | 77.8   | 107.1  | 151.3  | 142.0  | 60.0   | 51.6   |
| 87.5° | 47.1   | 45.8   | 84.9   | 72.6   | 46.1   | 41.3   | 52.3   | 73.3   | 78.7   | 33.2   | 25.8   |
| 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):**

|       | 95°    | 105°   | 115°  | 125°  | 135°  | 145°  | 155°  | 165°  | 175°  | 180°  |
|-------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 823.8  | 823.8  | 823.8 | 823.8 | 823.8 | 823.8 | 823.8 | 823.8 | 823.8 | 823.8 |
| 2.5°  | 820.0  | 819.6  | 820.3 | 820.6 | 823.2 | 826.7 | 828.4 | 830.6 | 831.9 | 831.3 |
| 5°    | 810.3  | 810.9  | 813.5 | 815.5 | 820.0 | 825.8 | 829.0 | 831.6 | 833.8 | 832.9 |
| 7.5°  | 802.2  | 803.8  | 807.7 | 809.3 | 811.9 | 813.5 | 813.2 | 814.2 | 816.1 | 813.8 |
| 10°   | 797.7  | 799.6  | 802.5 | 800.3 | 794.2 | 785.4 | 777.4 | 773.2 | 774.5 | 772.9 |
| 12.5° | 793.2  | 795.8  | 793.5 | 782.9 | 765.8 | 754.5 | 748.3 | 749.0 | 751.9 | 752.5 |
| 15°   | 790.6  | 791.6  | 781.9 | 761.9 | 744.5 | 742.8 | 746.1 | 745.4 | 745.7 | 745.7 |
| 17.5° | 790.6  | 788.0  | 770.0 | 749.9 | 742.5 | 739.6 | 729.6 | 717.0 | 711.5 | 709.6 |
| 20°   | 794.8  | 788.0  | 766.1 | 752.8 | 736.7 | 711.9 | 685.4 | 662.2 | 651.8 | 648.9 |
| 22.5° | 807.4  | 795.8  | 777.0 | 754.1 | 708.3 | 666.7 | 624.7 | 597.0 | 578.3 | 575.0 |
| 25°   | 832.9  | 820.0  | 798.7 | 737.0 | 663.1 | 603.8 | 556.0 | 525.0 | 506.3 | 503.7 |
| 27.5° | 877.4  | 869.0  | 810.3 | 699.3 | 603.1 | 539.5 | 495.3 | 471.5 | 457.6 | 456.6 |
| 30°   | 944.5  | 940.3  | 804.5 | 643.5 | 529.2 | 477.3 | 456.0 | 442.1 | 431.8 | 431.4 |
| 32.5° | 1051.7 | 1017.8 | 785.4 | 575.4 | 461.8 | 433.1 | 424.3 | 416.0 | 407.9 | 407.9 |
| 35°   | 1189.5 | 1080.4 | 749.3 | 502.4 | 420.8 | 408.5 | 397.6 | 384.3 | 373.7 | 373.0 |
| 37.5° | 1351.4 | 1119.1 | 684.4 | 443.7 | 401.4 | 392.1 | 375.9 | 356.3 | 337.5 | 334.3 |
| 40°   | 1515.1 | 1130.7 | 593.1 | 407.6 | 389.2 | 375.6 | 355.9 | 332.7 | 314.6 | 313.7 |
| 42.5° | 1665.1 | 1108.5 | 496.3 | 382.7 | 376.9 | 358.8 | 338.2 | 317.5 | 303.3 | 303.0 |
| 45°   | 1791.0 | 1050.7 | 415.0 | 359.2 | 364.0 | 343.7 | 325.3 | 308.5 | 297.5 | 295.3 |
| 47.5° | 1909.4 | 969.1  | 357.9 | 334.3 | 351.1 | 335.3 | 319.8 | 304.0 | 293.3 | 291.7 |
| 50°   | 2046.9 | 881.0  | 317.9 | 310.1 | 339.8 | 332.4 | 324.3 | 307.9 | 290.1 | 288.2 |
| 52.5° | 2213.4 | 804.8  | 286.6 | 288.8 | 331.1 | 336.2 | 335.9 | 318.8 | 287.8 | 285.3 |
| 55°   | 2399.2 | 720.3  | 263.0 | 271.4 | 327.5 | 343.3 | 338.8 | 329.1 | 289.8 | 285.9 |
| 57.5° | 2582.2 | 621.5  | 246.5 | 258.2 | 322.4 | 342.7 | 325.0 | 311.1 | 294.3 | 288.8 |
| 60°   | 2719.4 | 488.9  | 234.0 | 246.5 | 311.1 | 332.1 | 309.8 | 291.4 | 293.3 | 289.1 |
| 62.5° | 2728.4 | 377.9  | 218.8 | 236.5 | 294.0 | 321.4 | 299.8 | 282.7 | 297.5 | 293.7 |
| 65°   | 2568.0 | 285.6  | 204.3 | 224.6 | 275.6 | 314.6 | 290.1 | 277.8 | 306.2 | 302.0 |
| 67.5° | 2162.1 | 229.8  | 192.0 | 212.3 | 257.2 | 300.4 | 281.4 | 273.3 | 314.0 | 306.6 |
| 70°   | 1560.9 | 195.9  | 180.1 | 197.5 | 240.7 | 284.3 | 273.6 | 265.3 | 293.0 | 281.4 |
| 72.5° | 961.0  | 169.7  | 166.5 | 177.8 | 228.1 | 267.5 | 262.0 | 250.1 | 264.0 | 254.6 |
| 75°   | 479.8  | 147.1  | 151.3 | 158.4 | 210.4 | 248.5 | 242.7 | 230.7 | 232.7 | 230.7 |
| 77.5° | 229.8  | 125.9  | 133.6 | 139.1 | 187.5 | 226.9 | 220.7 | 208.5 | 206.2 | 206.5 |
| 80°   | 145.5  | 105.2  | 112.6 | 116.5 | 167.5 | 201.7 | 195.6 | 183.3 | 209.1 | 193.9 |
| 82.5° | 91.0   | 85.5   | 87.5  | 94.5  | 145.9 | 175.5 | 167.5 | 156.5 | 188.5 | 149.1 |
| 85°   | 50.3   | 59.7   | 62.3  | 68.4  | 112.3 | 146.8 | 138.8 | 124.9 | 112.0 | 110.0 |
| 87.5° | 30.0   | 35.5   | 36.5  | 41.0  | 75.5  | 106.2 | 93.9  | 89.1  | 73.9  | 73.6  |
| 90°   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |

(END OF REPORT)