

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: P269825

Luminaire Tested: **GAP-AF-01-LED-U-T3-7027**

Issue Date: 3/3/2020

### Test Information

Test Method: LM-79-08  
Report Number: P269825  
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-01-LED-U-T3-7027  
Description: GALLEON PEDESTRIAN LUMINAIRE  
(1) 70 CRI, 2700K, 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 5524.8 lumens  
Efficiency: N/A  
Efficacy: 93.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Short - Full Cutoff  
BUG Rating: B1 - U0 - G2

Input Watts (W): 59  
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



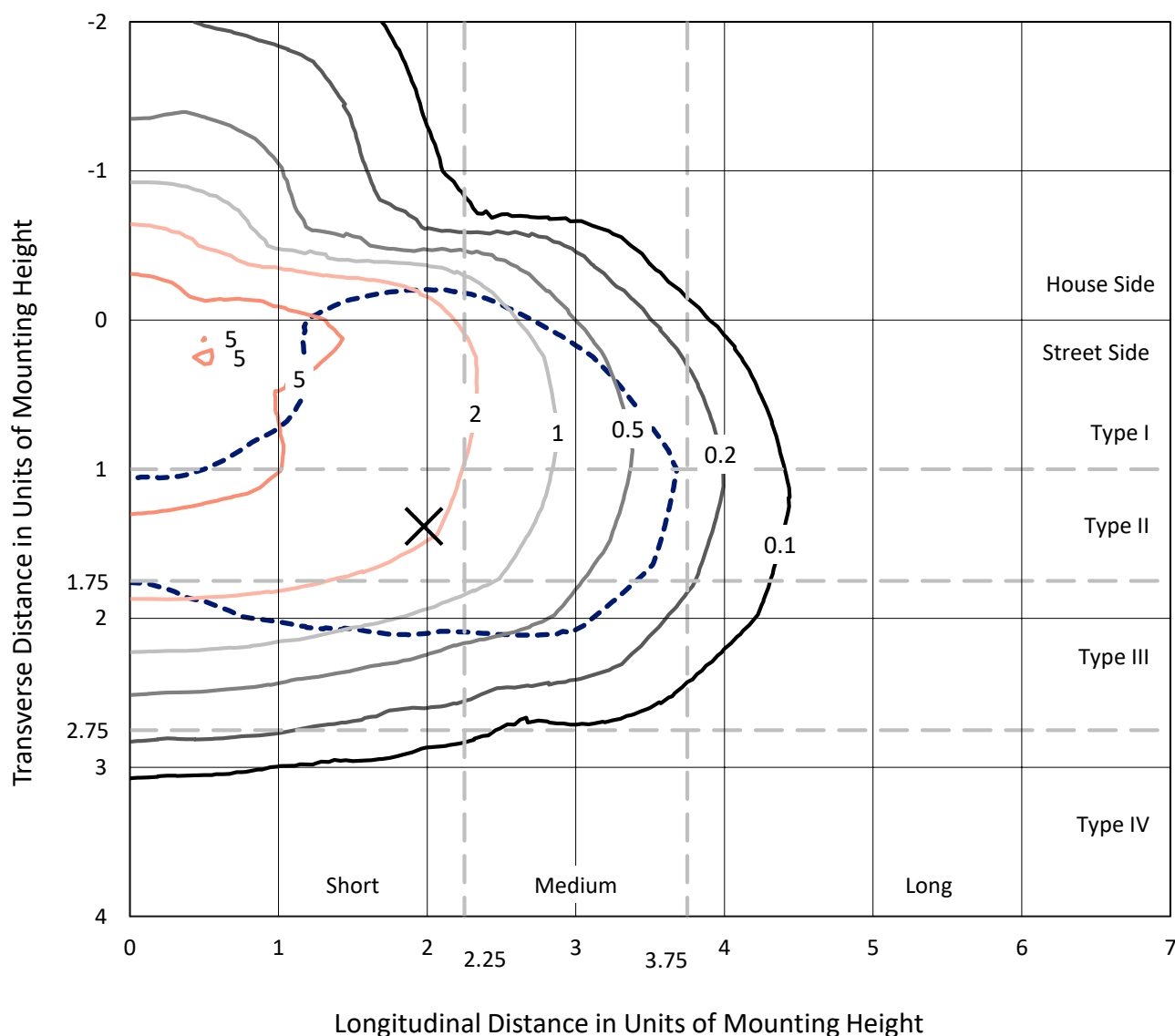
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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

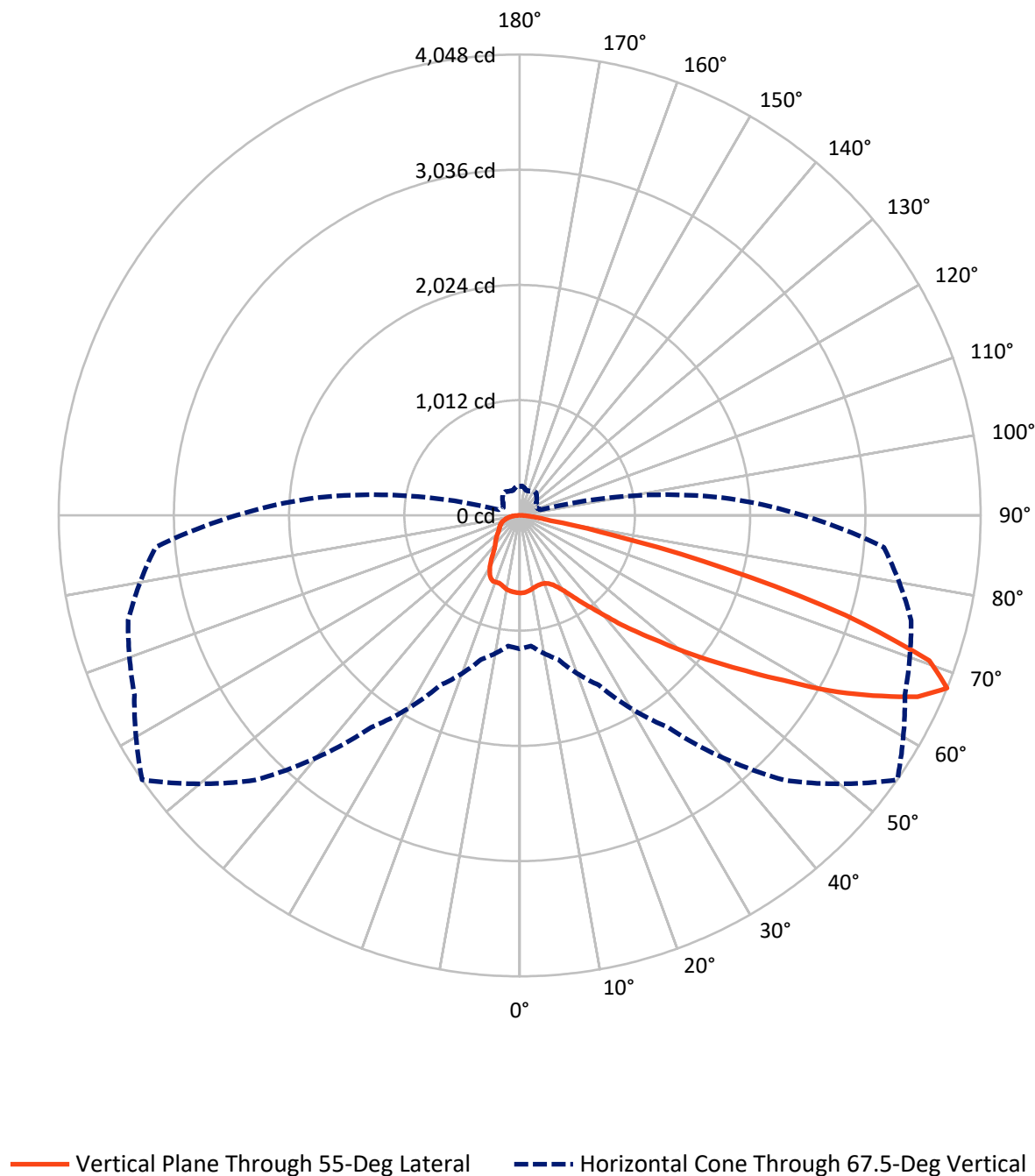


Based on 10 foot mounting height. Maximum calculated value = 7 fc  
 Type III - Short - Full Cutoff

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## Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1193.5   | 0.0    | 1193.5 |
|                    | % Fixture | 21.6     | 0.0    | 21.6   |
| <b>Street Side</b> | Lumens    | 4331.3   | 0.0    | 4331.3 |
|                    | % Fixture | 78.4     | 0.0    | 78.4   |
| <b>Total</b>       | Lumens    | 5524.8   | 0.0    | 5524.8 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 63.6   | 1.2       |
| 10°-20°   | 180.1  | 3.3       |
| 20°-30°   | 301.7  | 5.5       |
| 30°-40°   | 496.1  | 9.0       |
| 40°-50°   | 835.1  | 15.1      |
| 50°-60°   | 1314.3 | 23.8      |
| 60°-70°   | 1568.5 | 28.4      |
| 70°-80°   | 673.5  | 12.2      |
| 80°-90°   | 91.8   | 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°    | 5524.8 | 100.0     |
| 0°-180°   | 5524.8 | 100.0     |

**Coefficient of Utilization**



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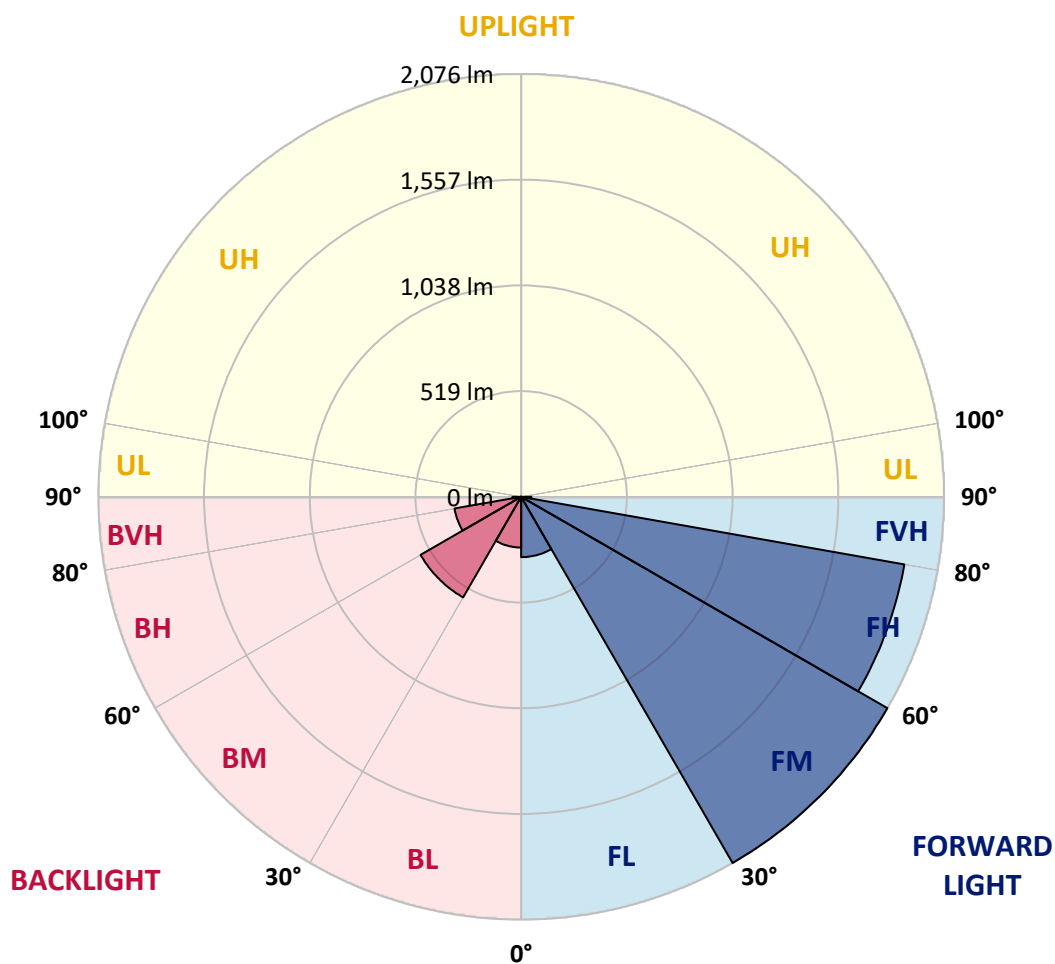
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 296.1  | 5.4       |                         |      |         |
| FM   | (30°-60°)   | 2075.5 | 37.6      |                         |      |         |
| FH   | (60°-80°)   | 1909.9 | 34.6      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 49.7   | 0.9       |                         |      | G1/100  |
| BL   | (0°-30°)    | 249.2  | 4.5       | B1/500                  |      |         |
| BM   | (30°-60°)   | 570.0  | 10.3      | B1/1000                 |      |         |
| BH   | (60°-80°)   | 332.1  | 6.0       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 42.1   | 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°    | 681.3  | 681.3  | 681.3  | 681.3  | 681.3  | 681.3  | 681.3  | 681.3  | 681.3  | 681.3  | 681.3  |
| 2.5°  | 675.3  | 675.6  | 676.2  | 678.3  | 680.1  | 679.7  | 679.9  | 678.8  | 678.6  | 677.1  | 678.6  |
| 5°    | 666.8  | 667.7  | 667.9  | 671.5  | 673.5  | 674.1  | 673.3  | 671.9  | 670.3  | 668.7  | 669.5  |
| 7.5°  | 647.4  | 649.6  | 649.7  | 654.5  | 658.1  | 662.6  | 662.9  | 663.0  | 662.3  | 661.2  | 662.9  |
| 10°   | 635.1  | 635.6  | 635.5  | 638.9  | 641.5  | 646.6  | 649.6  | 654.5  | 656.8  | 657.2  | 658.3  |
| 12.5° | 634.4  | 633.8  | 632.9  | 632.9  | 632.1  | 634.4  | 639.7  | 646.8  | 651.9  | 653.4  | 654.9  |
| 15°   | 642.8  | 642.6  | 640.0  | 635.9  | 630.8  | 629.3  | 633.8  | 641.7  | 648.4  | 651.9  | 653.2  |
| 17.5° | 662.1  | 660.4  | 656.2  | 647.0  | 636.2  | 631.9  | 632.4  | 639.1  | 646.8  | 651.5  | 652.7  |
| 20°   | 697.3  | 697.3  | 688.2  | 671.2  | 651.6  | 641.5  | 636.7  | 640.8  | 648.1  | 654.3  | 656.2  |
| 22.5° | 758.1  | 758.7  | 743.4  | 715.4  | 682.6  | 661.1  | 648.9  | 648.1  | 657.0  | 663.8  | 666.1  |
| 25°   | 844.2  | 842.3  | 820.8  | 780.7  | 731.0  | 695.2  | 674.3  | 669.5  | 677.1  | 684.8  | 687.5  |
| 27.5° | 944.7  | 936.9  | 911.6  | 863.2  | 798.7  | 746.4  | 714.3  | 706.5  | 713.9  | 722.6  | 725.3  |
| 30°   | 1043.9 | 1035.8 | 1005.7 | 952.9  | 881.1  | 814.9  | 769.0  | 756.6  | 766.7  | 779.2  | 780.7  |
| 32.5° | 1143.2 | 1143.2 | 1109.5 | 1048.0 | 969.7  | 896.9  | 841.9  | 827.0  | 843.8  | 859.0  | 862.5  |
| 35°   | 1261.8 | 1262.5 | 1229.9 | 1155.7 | 1071.7 | 994.6  | 934.0  | 923.0  | 948.4  | 959.0  | 967.4  |
| 37.5° | 1408.0 | 1410.8 | 1368.9 | 1279.2 | 1187.2 | 1106.2 | 1033.9 | 1019.0 | 1044.4 | 1073.6 | 1100.2 |
| 40°   | 1565.6 | 1569.2 | 1523.2 | 1412.7 | 1320.6 | 1235.8 | 1157.8 | 1130.8 | 1173.0 | 1228.5 | 1262.9 |
| 42.5° | 1716.1 | 1735.3 | 1690.8 | 1577.1 | 1478.2 | 1390.2 | 1311.3 | 1272.1 | 1324.9 | 1408.7 | 1438.5 |
| 45°   | 1933.6 | 1947.4 | 1869.8 | 1766.7 | 1673.6 | 1575.4 | 1470.9 | 1429.6 | 1503.5 | 1609.1 | 1615.2 |
| 47.5° | 2078.5 | 2068.1 | 2028.6 | 1964.6 | 1905.6 | 1813.8 | 1656.4 | 1611.0 | 1709.1 | 1833.5 | 1799.0 |
| 50°   | 2155.7 | 2158.7 | 2153.4 | 2157.2 | 2159.3 | 2101.8 | 1883.7 | 1821.6 | 1938.6 | 2088.9 | 2009.7 |
| 52.5° | 2227.6 | 2206.2 | 2223.9 | 2311.5 | 2417.1 | 2395.8 | 2131.0 | 2066.2 | 2184.7 | 2372.2 | 2232.2 |
| 55°   | 2226.0 | 2193.5 | 2250.9 | 2405.4 | 2634.5 | 2659.2 | 2408.8 | 2334.2 | 2444.8 | 2676.2 | 2468.1 |
| 57.5° | 2147.3 | 2148.9 | 2237.3 | 2439.5 | 2786.2 | 2906.7 | 2731.1 | 2619.1 | 2720.7 | 2984.2 | 2683.4 |
| 60°   | 2039.1 | 2053.6 | 2180.9 | 2433.9 | 2907.5 | 3109.8 | 3126.7 | 2926.3 | 2991.0 | 3264.1 | 2861.7 |
| 62.5° | 1864.3 | 1879.7 | 2055.2 | 2375.7 | 2889.2 | 3305.5 | 3484.3 | 3274.7 | 3273.8 | 3433.9 | 2914.0 |
| 65°   | 1588.6 | 1584.0 | 1768.5 | 2158.3 | 2734.7 | 3450.1 | 3839.4 | 3576.1 | 3486.6 | 3436.5 | 2808.8 |
| 67.5° | 1171.5 | 1151.2 | 1309.4 | 1643.8 | 2273.0 | 3288.1 | 4048.3 | 3732.9 | 3559.3 | 3210.5 | 2487.5 |
| 70°   | 607.9  | 587.6  | 715.7  | 959.8  | 1494.9 | 2566.3 | 3817.0 | 3651.8 | 3398.8 | 2691.1 | 1948.9 |
| 72.5° | 259.9  | 256.5  | 308.5  | 421.0  | 723.1  | 1480.1 | 2993.0 | 3160.9 | 2916.3 | 2005.0 | 1339.8 |
| 75°   | 174.8  | 173.7  | 193.1  | 229.4  | 325.2  | 600.6  | 1873.0 | 2243.6 | 2133.7 | 1243.3 | 753.6  |
| 77.5° | 137.1  | 135.9  | 147.3  | 164.8  | 210.8  | 237.0  | 831.2  | 1204.5 | 1114.8 | 541.1  | 329.8  |
| 80°   | 107.3  | 106.2  | 113.5  | 123.0  | 151.5  | 149.5  | 273.5  | 479.2  | 370.9  | 207.4  | 160.3  |
| 82.5° | 84.6   | 84.6   | 90.5   | 90.6   | 107.5  | 102.0  | 142.8  | 211.1  | 185.2  | 120.9  | 98.3   |
| 85°   | 77.3   | 77.3   | 83.5   | 67.8   | 70.2   | 64.3   | 88.7   | 125.1  | 117.4  | 49.6   | 42.7   |
| 87.5° | 38.9   | 37.9   | 70.2   | 60.0   | 38.2   | 34.1   | 43.2   | 60.5   | 65.0   | 27.5   | 21.4   |
| 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°    | 681.3  | 681.3 | 681.3 | 681.3 | 681.3 | 681.3 | 681.3 | 681.3 | 681.3 | 681.3 |
| 2.5°  | 678.1  | 677.9 | 678.3 | 678.6 | 680.7 | 683.7 | 685.0 | 686.8 | 687.9 | 687.5 |
| 5°    | 670.0  | 670.6 | 672.7 | 674.3 | 678.1 | 682.8 | 685.5 | 687.7 | 689.4 | 688.7 |
| 7.5°  | 663.4  | 664.7 | 667.9 | 669.2 | 671.5 | 672.7 | 672.4 | 673.3 | 674.8 | 673.0 |
| 10°   | 659.6  | 661.2 | 663.7 | 661.8 | 656.8 | 649.6 | 642.8 | 639.4 | 640.4 | 639.1 |
| 12.5° | 655.9  | 658.1 | 656.2 | 647.4 | 633.2 | 624.0 | 618.8 | 619.3 | 621.7 | 622.3 |
| 15°   | 653.7  | 654.5 | 646.6 | 630.0 | 615.6 | 614.4 | 617.0 | 616.3 | 616.6 | 616.6 |
| 17.5° | 653.7  | 651.6 | 636.7 | 620.2 | 614.0 | 611.7 | 603.3 | 592.9 | 588.4 | 586.9 |
| 20°   | 657.2  | 651.6 | 633.6 | 622.5 | 609.2 | 588.7 | 566.8 | 547.5 | 539.1 | 536.6 |
| 22.5° | 667.7  | 658.1 | 642.6 | 623.7 | 585.8 | 551.3 | 516.6 | 493.7 | 478.2 | 475.6 |
| 25°   | 688.7  | 678.1 | 660.4 | 609.5 | 548.3 | 499.3 | 459.8 | 434.2 | 418.7 | 416.5 |
| 27.5° | 725.6  | 718.6 | 670.0 | 578.2 | 498.6 | 446.2 | 409.5 | 389.9 | 378.4 | 377.6 |
| 30°   | 781.0  | 777.7 | 665.3 | 532.1 | 437.7 | 394.6 | 377.1 | 365.6 | 357.0 | 356.7 |
| 32.5° | 869.6  | 841.6 | 649.6 | 475.8 | 381.9 | 358.2 | 350.9 | 344.1 | 337.4 | 337.4 |
| 35°   | 983.6  | 893.5 | 619.7 | 415.5 | 348.0 | 337.9 | 328.8 | 317.8 | 308.9 | 308.5 |
| 37.5° | 1117.5 | 925.4 | 566.0 | 366.9 | 332.0 | 324.2 | 310.9 | 294.6 | 279.2 | 276.5 |
| 40°   | 1252.9 | 935.0 | 490.5 | 337.0 | 321.9 | 310.6 | 294.4 | 275.2 | 260.1 | 259.4 |
| 42.5° | 1376.9 | 916.6 | 410.4 | 316.6 | 311.7 | 296.7 | 279.6 | 262.6 | 250.8 | 250.5 |
| 45°   | 1481.0 | 868.9 | 343.2 | 297.0 | 301.0 | 284.3 | 269.0 | 255.1 | 246.0 | 244.2 |
| 47.5° | 1579.0 | 801.4 | 295.9 | 276.5 | 290.3 | 277.2 | 264.5 | 251.3 | 242.5 | 241.3 |
| 50°   | 1692.6 | 728.4 | 262.8 | 256.5 | 281.0 | 274.8 | 268.1 | 254.6 | 239.8 | 238.3 |
| 52.5° | 1830.2 | 665.6 | 237.0 | 238.8 | 273.9 | 278.0 | 277.8 | 263.7 | 238.1 | 235.9 |
| 55°   | 1983.9 | 595.5 | 217.5 | 224.4 | 270.8 | 284.0 | 280.2 | 272.1 | 239.7 | 236.4 |
| 57.5° | 2135.4 | 513.9 | 203.8 | 213.4 | 266.5 | 283.3 | 268.8 | 257.3 | 243.4 | 238.8 |
| 60°   | 2248.7 | 404.2 | 193.4 | 203.8 | 257.3 | 274.6 | 256.1 | 240.9 | 242.5 | 239.0 |
| 62.5° | 2256.3 | 312.5 | 180.9 | 195.7 | 243.1 | 265.8 | 247.9 | 233.7 | 246.0 | 242.8 |
| 65°   | 2123.6 | 236.2 | 168.9 | 185.7 | 227.9 | 260.1 | 239.8 | 229.7 | 253.2 | 249.8 |
| 67.5° | 1787.8 | 190.0 | 158.8 | 175.6 | 212.7 | 248.4 | 232.8 | 226.1 | 259.6 | 253.5 |
| 70°   | 1290.8 | 162.0 | 148.8 | 163.3 | 199.1 | 235.0 | 226.4 | 219.4 | 242.4 | 232.8 |
| 72.5° | 794.7  | 140.3 | 137.7 | 147.1 | 188.6 | 221.3 | 216.8 | 206.8 | 218.3 | 210.6 |
| 75°   | 396.8  | 121.7 | 125.1 | 131.1 | 174.0 | 205.4 | 200.7 | 190.8 | 192.3 | 190.8 |
| 77.5° | 190.0  | 104.1 | 110.5 | 115.1 | 155.0 | 187.6 | 182.5 | 172.4 | 170.5 | 170.8 |
| 80°   | 120.4  | 87.0  | 93.2  | 96.3  | 138.5 | 166.7 | 161.8 | 151.5 | 173.0 | 160.3 |
| 82.5° | 75.3   | 70.6  | 72.4  | 78.2  | 120.6 | 145.2 | 138.5 | 129.4 | 155.9 | 123.2 |
| 85°   | 41.6   | 49.3  | 51.6  | 56.6  | 92.9  | 121.5 | 114.8 | 103.2 | 92.5  | 91.0  |
| 87.5° | 24.9   | 29.4  | 30.2  | 33.9  | 62.4  | 87.8  | 77.7  | 73.7  | 61.2  | 60.8  |
| 90°   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |

(END OF REPORT)