

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: P200465

Luminaire Tested: **GAP-AF-01-LED-U-SL4-7060-1200-HSS**

Issue Date: 3/3/2020

#### Test Information

Test Method: LM-79-08  
Report Number: P200465  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24301)  
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-SL4-7060-1200-HSS  
Description: GALLEON PEDESTRIAN LUMINAIRE  
(1) 70 CRI, 5700K, 1200mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE IV SPILL  
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

#### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 5660 lumens  
Efficiency: N/A  
Efficacy: 84.5 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short - Semi-Cutoff  
BUG Rating: B0 - U0 - G2

Input Watts (W): 67  
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

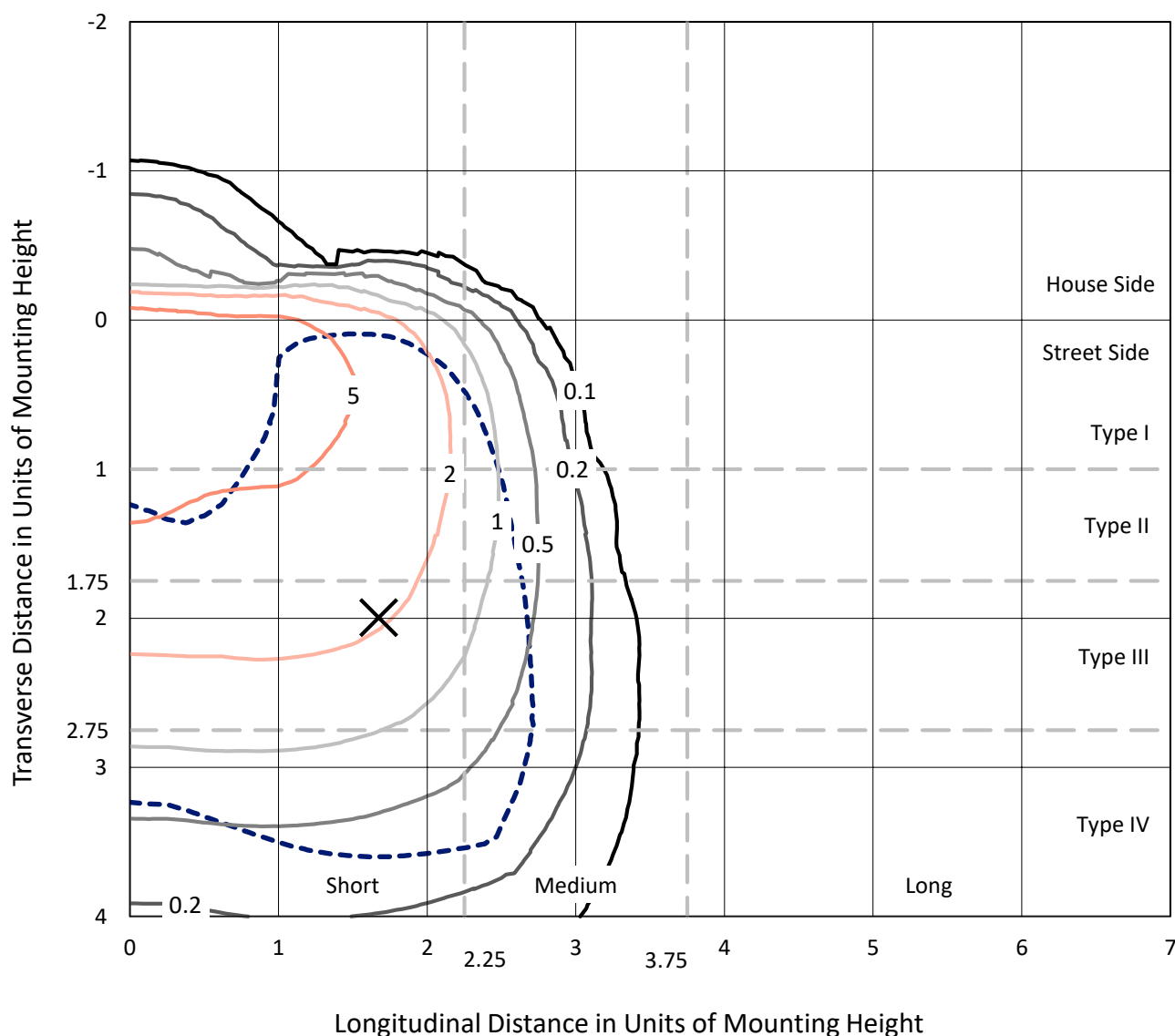


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## Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

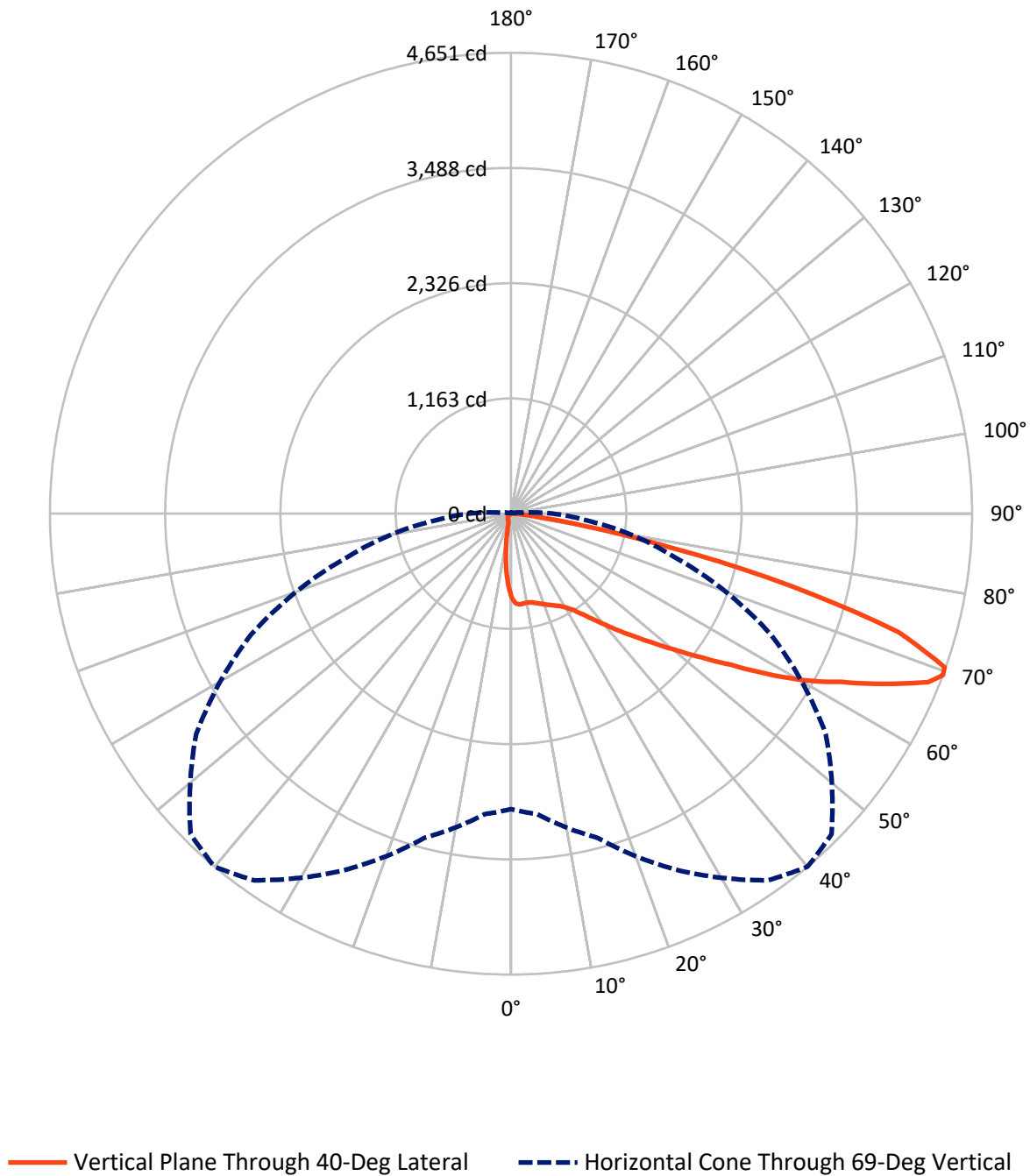


Based on 10 foot mounting height. Maximum calculated value = 9.3 fc  
 Type IV - Short - Semi-Cutoff

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## Luminous Intensity Polar Plot



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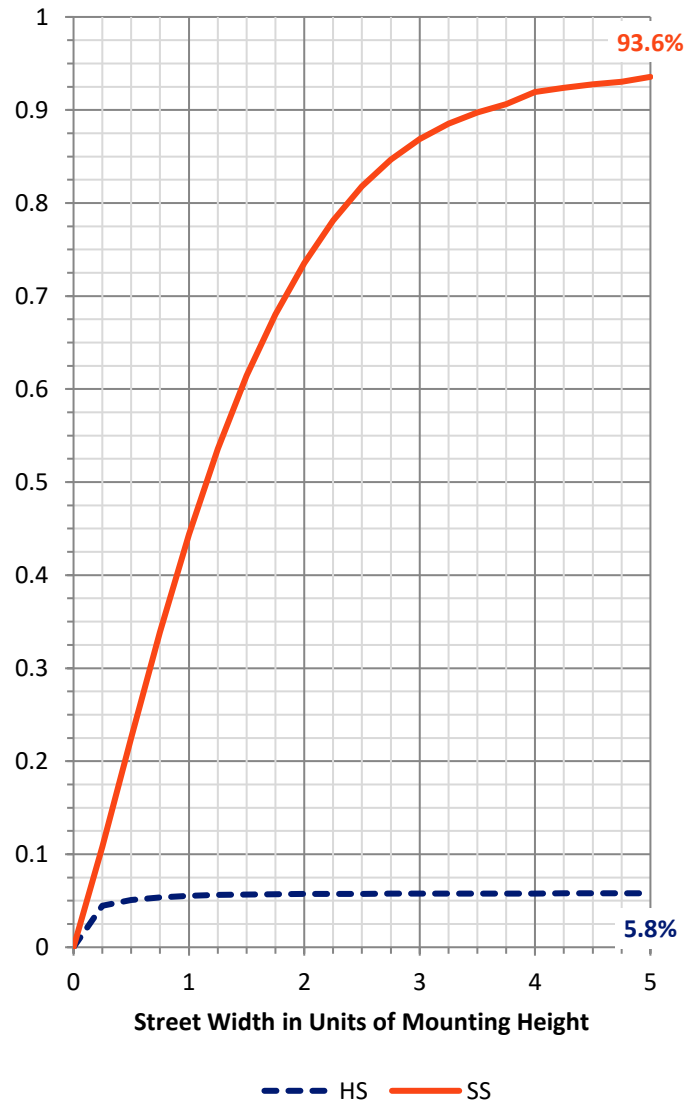
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 331.1    | 0.0    | 331.1  |
|                    | % Fixture | 5.9      | 0.0    | 5.9    |
| <b>Street Side</b> | Lumens    | 5328.9   | 0.0    | 5328.9 |
|                    | % Fixture | 94.1     | 0.0    | 94.1   |
| <b>Total</b>       | Lumens    | 5660.0   | 0.0    | 5660.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 68.6   | 1.2       |
| 10°-20°   | 168.6  | 3.0       |
| 20°-30°   | 284.0  | 5.0       |
| 30°-40°   | 464.9  | 8.2       |
| 40°-50°   | 805.0  | 14.2      |
| 50°-60°   | 1267.9 | 22.4      |
| 60°-70°   | 1655.9 | 29.3      |
| 70°-80°   | 852.8  | 15.1      |
| 80°-90°   | 92.2   | 1.6       |
| 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°    | 5660.0 | 100.0     |
| 0°-180°   | 5660.0 | 100.0     |

**Coefficient of Utilization**



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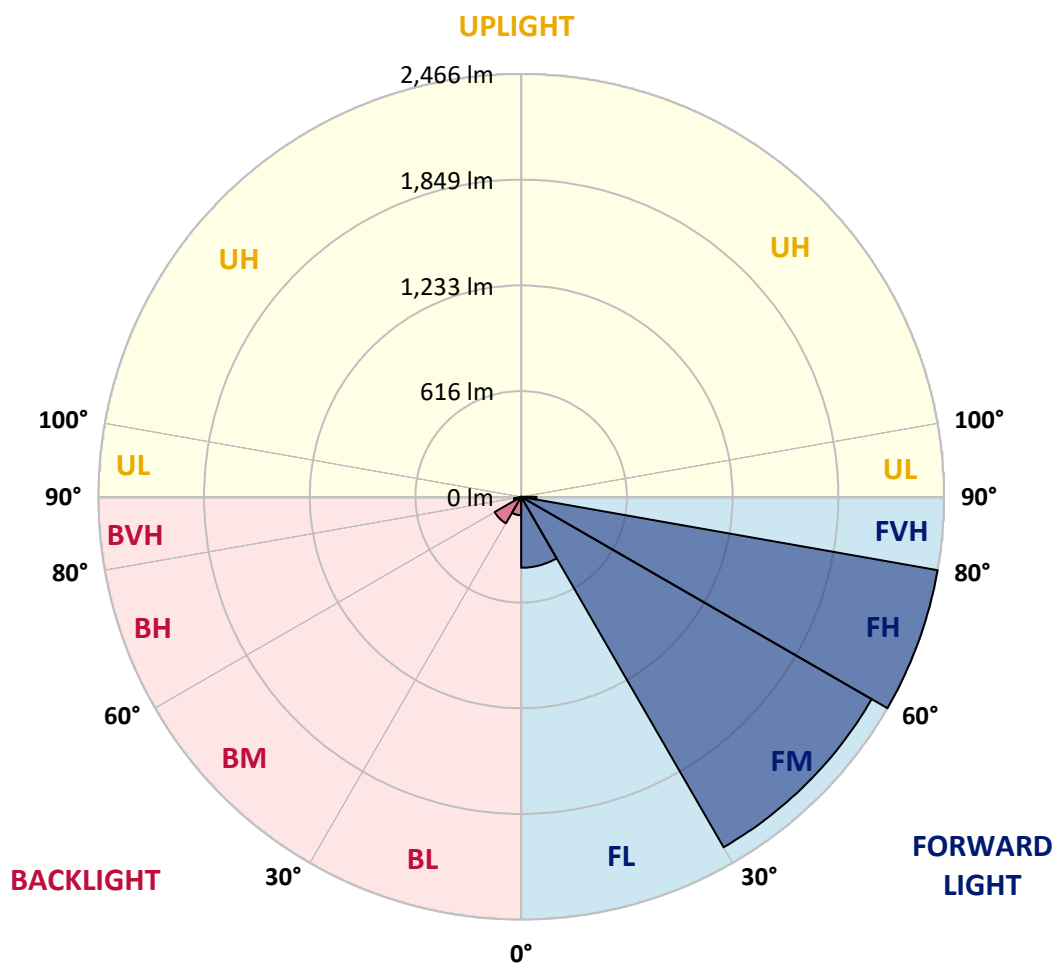
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 413.9  | 7.3       |                         |      |         |
| FM   | (30°-60°)   | 2359.9 | 41.7      |                         |      |         |
| FH   | (60°-80°)   | 2465.7 | 43.6      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 89.4   | 1.6       |                         |      | G1/100  |
| BL   | (0°-30°)    | 107.3  | 1.9       | B0/110                  |      |         |
| BM   | (30°-60°)   | 178.0  | 3.1       | B0/220                  |      |         |
| BH   | (60°-80°)   | 43.0   | 0.8       | B0/110                  |      | G0/110  |
| BVH  | (80°-90°)   | 2.9    | 0.1       |                         |      | G0/10   |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B0-U0-G2**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 40°    | 45°    | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 845.6  | 845.6  | 845.6  | 845.6  | 845.6  | 845.6  | 845.6  | 845.6  | 845.6  | 845.6  | 845.6  |
| 2.5°  | 928.5  | 923.5  | 920.4  | 916.4  | 911.3  | 906.9  | 905.3  | 892.8  | 881.0  | 864.8  | 846.3  |
| 5°    | 945.7  | 944.0  | 938.6  | 933.2  | 927.2  | 920.4  | 916.7  | 901.9  | 885.1  | 861.5  | 829.1  |
| 7.5°  | 947.4  | 945.4  | 938.6  | 931.2  | 922.8  | 914.7  | 908.3  | 893.5  | 878.0  | 854.1  | 814.6  |
| 10°   | 944.7  | 942.3  | 937.3  | 929.2  | 918.7  | 911.0  | 904.6  | 890.4  | 877.3  | 855.7  | 811.9  |
| 12.5° | 941.7  | 939.3  | 936.9  | 932.9  | 923.8  | 918.4  | 913.0  | 899.5  | 887.7  | 869.6  | 821.7  |
| 15°   | 944.7  | 943.3  | 946.0  | 944.3  | 939.3  | 934.6  | 929.2  | 917.1  | 906.3  | 891.1  | 839.6  |
| 17.5° | 957.5  | 957.5  | 965.9  | 966.9  | 962.2  | 955.5  | 947.7  | 935.6  | 926.5  | 913.7  | 860.8  |
| 20°   | 987.5  | 986.5  | 997.2  | 999.3  | 987.8  | 977.4  | 965.9  | 951.1  | 944.0  | 935.9  | 881.7  |
| 22.5° | 1039.0 | 1034.3 | 1040.7 | 1038.7 | 1016.1 | 999.9  | 985.8  | 967.6  | 963.9  | 960.2  | 904.9  |
| 25°   | 1106.1 | 1103.4 | 1107.7 | 1087.9 | 1048.1 | 1026.2 | 1009.4 | 988.8  | 988.8  | 992.5  | 931.2  |
| 27.5° | 1203.4 | 1193.3 | 1178.5 | 1143.5 | 1083.8 | 1055.9 | 1037.7 | 1015.8 | 1021.5 | 1035.3 | 965.9  |
| 30°   | 1303.2 | 1292.0 | 1258.0 | 1204.1 | 1127.3 | 1098.0 | 1076.8 | 1053.8 | 1067.3 | 1092.6 | 1012.4 |
| 32.5° | 1401.5 | 1389.1 | 1340.9 | 1272.8 | 1189.6 | 1160.3 | 1139.8 | 1114.5 | 1137.1 | 1179.5 | 1080.5 |
| 35°   | 1496.9 | 1485.8 | 1430.2 | 1350.0 | 1272.5 | 1248.2 | 1229.4 | 1207.5 | 1236.4 | 1295.7 | 1176.5 |
| 37.5° | 1604.0 | 1591.9 | 1524.2 | 1437.2 | 1373.2 | 1355.7 | 1341.9 | 1320.0 | 1370.5 | 1457.5 | 1310.2 |
| 40°   | 1735.7 | 1715.2 | 1623.9 | 1537.3 | 1489.8 | 1481.4 | 1471.9 | 1468.9 | 1547.4 | 1667.7 | 1488.4 |
| 42.5° | 1886.7 | 1853.0 | 1728.3 | 1642.8 | 1617.8 | 1623.9 | 1621.5 | 1635.0 | 1768.8 | 1929.1 | 1705.4 |
| 45°   | 2037.6 | 1994.1 | 1844.6 | 1755.3 | 1758.6 | 1779.9 | 1793.0 | 1846.9 | 2046.0 | 2229.0 | 1938.9 |
| 47.5° | 2165.6 | 2122.8 | 1956.1 | 1876.9 | 1917.3 | 1959.1 | 1994.8 | 2096.9 | 2331.0 | 2524.1 | 2120.5 |
| 50°   | 2275.1 | 2234.7 | 2074.3 | 2010.7 | 2101.6 | 2169.0 | 2226.9 | 2378.2 | 2637.6 | 2748.8 | 2247.8 |
| 52.5° | 2364.7 | 2337.8 | 2197.0 | 2163.9 | 2312.2 | 2410.9 | 2495.8 | 2677.1 | 2909.2 | 2931.4 | 2346.9 |
| 55°   | 2452.0 | 2432.8 | 2328.7 | 2346.2 | 2559.5 | 2693.9 | 2801.4 | 2994.1 | 3143.0 | 3083.7 | 2441.9 |
| 57.5° | 2552.4 | 2534.9 | 2479.0 | 2577.3 | 2884.6 | 3053.7 | 3171.0 | 3275.1 | 3348.8 | 3239.3 | 2531.5 |
| 60°   | 2654.8 | 2644.7 | 2646.1 | 2834.1 | 3257.9 | 3420.3 | 3485.0 | 3511.9 | 3551.0 | 3385.9 | 2536.6 |
| 62.5° | 2752.5 | 2771.7 | 2837.1 | 3119.7 | 3615.3 | 3740.0 | 3772.7 | 3799.3 | 3753.5 | 3409.1 | 2343.5 |
| 65°   | 2917.9 | 2949.3 | 3105.3 | 3502.1 | 4008.5 | 4141.9 | 4175.6 | 4084.3 | 3785.5 | 3108.6 | 1906.2 |
| 67.5° | 2998.8 | 3056.1 | 3334.4 | 3858.6 | 4389.9 | 4538.1 | 4525.7 | 4102.8 | 3397.0 | 2370.5 | 1223.3 |
| 69°   | 2982.0 | 3042.9 | 3387.2 | 3967.7 | 4516.6 | 4651.0 | 4571.8 | 3876.1 | 2894.0 | 1717.2 | 751.0  |
| 70°   | 2915.2 | 2976.9 | 3360.0 | 3963.7 | 4532.7 | 4639.2 | 4486.2 | 3596.1 | 2446.9 | 1255.6 | 469.6  |
| 72.5° | 2434.5 | 2487.7 | 2983.0 | 3582.7 | 4175.6 | 4089.0 | 3753.1 | 2491.4 | 1192.3 | 342.0  | 105.8  |
| 75°   | 1498.6 | 1528.2 | 2140.4 | 2699.0 | 3153.8 | 2931.4 | 2500.5 | 1239.5 | 355.4  | 96.7   | 58.6   |
| 77.5° | 791.7  | 805.2  | 1171.8 | 1590.9 | 1999.2 | 1654.2 | 1281.6 | 483.5  | 163.7  | 60.6   | 42.5   |
| 80°   | 468.0  | 478.1  | 631.0  | 727.4  | 865.2  | 722.7  | 512.4  | 296.8  | 117.2  | 38.1   | 37.7   |
| 82.5° | 267.8  | 274.2  | 457.5  | 404.3  | 340.9  | 291.1  | 255.0  | 281.3  | 70.4   | 25.6   | 39.1   |
| 85°   | 98.4   | 99.7   | 257.4  | 307.6  | 202.8  | 120.6  | 126.7  | 233.1  | 18.9   | 16.2   | 30.7   |
| 87.5° | 45.8   | 44.8   | 132.4  | 188.3  | 118.6  | 76.5   | 98.7   | 51.2   | 7.4    | 10.4   | 8.4    |
| 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):**

|       | 90°    | 95°   | 105°  | 115°  | 125°  | 135°  | 145°  | 155°  | 165°  | 175°  | 180°  |
|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 845.6  | 845.6 | 845.6 | 845.6 | 845.6 | 845.6 | 845.6 | 845.6 | 845.6 | 845.6 | 845.6 |
| 2.5°  | 835.5  | 823.1 | 800.5 | 777.2 | 753.7 | 735.5 | 717.6 | 703.5 | 698.7 | 690.0 | 690.7 |
| 5°    | 809.9  | 787.0 | 739.8 | 692.0 | 642.1 | 601.0 | 562.3 | 531.0 | 515.8 | 500.3 | 500.3 |
| 7.5°  | 787.7  | 754.3 | 680.5 | 602.7 | 522.2 | 454.5 | 393.5 | 347.7 | 322.4 | 302.2 | 301.9 |
| 10°   | 779.3  | 734.1 | 631.0 | 519.5 | 407.3 | 315.0 | 242.6 | 196.1 | 172.2 | 156.7 | 156.0 |
| 12.5° | 783.0  | 727.0 | 593.0 | 442.7 | 301.9 | 202.5 | 140.5 | 110.5 | 100.4 | 95.7  | 95.7  |
| 15°   | 793.7  | 725.0 | 554.9 | 367.6 | 213.3 | 126.7 | 93.3  | 85.2  | 84.6  | 84.6  | 84.6  |
| 17.5° | 806.9  | 725.7 | 515.8 | 294.5 | 145.2 | 90.6  | 80.5  | 79.5  | 80.2  | 80.2  | 80.2  |
| 20°   | 820.4  | 726.0 | 473.7 | 226.7 | 102.4 | 78.8  | 75.8  | 75.5  | 76.1  | 76.1  | 76.5  |
| 22.5° | 836.9  | 727.7 | 431.6 | 169.5 | 84.6  | 74.5  | 72.1  | 72.1  | 72.4  | 72.4  | 72.1  |
| 25°   | 855.7  | 731.1 | 387.8 | 125.7 | 77.2  | 71.4  | 69.4  | 69.1  | 69.4  | 69.1  | 68.7  |
| 27.5° | 879.3  | 735.8 | 338.9 | 98.4  | 73.8  | 68.4  | 66.7  | 66.7  | 66.4  | 66.0  | 65.7  |
| 30°   | 909.0  | 741.2 | 284.0 | 83.6  | 70.4  | 65.7  | 64.0  | 63.7  | 63.3  | 62.7  | 62.7  |
| 32.5° | 954.1  | 753.0 | 229.8 | 75.8  | 66.7  | 62.0  | 60.6  | 60.6  | 60.0  | 59.3  | 59.0  |
| 35°   | 1023.5 | 776.2 | 181.3 | 71.1  | 62.7  | 57.9  | 56.3  | 56.3  | 55.6  | 55.3  | 54.9  |
| 37.5° | 1119.5 | 811.6 | 140.8 | 66.7  | 58.6  | 53.6  | 51.9  | 51.5  | 50.9  | 50.2  | 49.9  |
| 40°   | 1247.2 | 855.4 | 110.8 | 62.7  | 54.6  | 49.2  | 47.8  | 47.2  | 45.8  | 44.8  | 44.8  |
| 42.5° | 1407.6 | 905.3 | 90.0  | 58.3  | 49.9  | 45.1  | 44.1  | 43.1  | 40.8  | 39.8  | 39.4  |
| 45°   | 1575.4 | 950.1 | 76.1  | 53.2  | 45.1  | 41.1  | 40.4  | 38.7  | 35.7  | 34.7  | 34.7  |
| 47.5° | 1696.3 | 960.5 | 67.0  | 48.5  | 40.8  | 36.7  | 36.4  | 33.4  | 30.7  | 30.0  | 29.6  |
| 50°   | 1771.8 | 940.0 | 59.6  | 43.8  | 36.7  | 32.7  | 31.7  | 28.0  | 26.3  | 25.6  | 25.3  |
| 52.5° | 1822.7 | 903.2 | 53.6  | 39.8  | 33.0  | 29.0  | 26.6  | 23.9  | 22.6  | 21.9  | 21.9  |
| 55°   | 1863.4 | 851.4 | 47.5  | 36.0  | 30.0  | 25.9  | 22.6  | 20.6  | 19.2  | 18.5  | 18.5  |
| 57.5° | 1874.9 | 780.9 | 41.4  | 33.0  | 27.0  | 22.9  | 19.2  | 17.9  | 16.2  | 15.8  | 15.8  |
| 60°   | 1791.7 | 653.9 | 36.7  | 29.3  | 24.3  | 19.9  | 16.8  | 15.2  | 13.5  | 13.1  | 12.8  |
| 62.5° | 1572.3 | 506.0 | 32.3  | 25.9  | 21.2  | 17.2  | 14.5  | 12.5  | 11.1  | 11.1  | 11.1  |
| 65°   | 1199.4 | 339.3 | 28.3  | 22.6  | 18.5  | 14.5  | 12.5  | 10.1  | 9.4   | 9.4   | 9.8   |
| 67.5° | 717.9  | 184.6 | 24.3  | 19.2  | 15.8  | 12.1  | 10.4  | 8.8   | 8.4   | 8.8   | 8.8   |
| 69°   | 420.8  | 108.5 | 21.9  | 17.2  | 13.8  | 10.8  | 9.1   | 7.7   | 8.4   | 8.8   | 8.8   |
| 70°   | 259.8  | 73.1  | 20.2  | 15.5  | 12.5  | 9.8   | 8.4   | 7.4   | 8.1   | 8.4   | 8.4   |
| 72.5° | 72.4   | 37.7  | 16.2  | 12.1  | 10.1  | 8.1   | 6.7   | 6.7   | 7.7   | 8.1   | 8.1   |
| 75°   | 47.2   | 28.0  | 12.5  | 9.1   | 7.7   | 6.4   | 5.7   | 6.4   | 7.4   | 7.7   | 7.7   |
| 77.5° | 39.1   | 22.9  | 10.1  | 7.4   | 6.4   | 6.1   | 5.4   | 5.7   | 6.7   | 7.1   | 7.1   |
| 80°   | 35.7   | 16.2  | 8.1   | 6.7   | 5.7   | 5.4   | 5.1   | 4.7   | 6.1   | 6.4   | 6.4   |
| 82.5° | 34.0   | 12.8  | 7.1   | 6.1   | 5.4   | 4.7   | 4.4   | 4.7   | 5.4   | 5.7   | 6.1   |
| 85°   | 21.2   | 8.4   | 6.4   | 5.7   | 4.7   | 4.4   | 4.4   | 4.4   | 5.1   | 5.4   | 5.4   |
| 87.5° | 7.7    | 6.7   | 5.7   | 4.7   | 4.0   | 4.0   | 4.0   | 4.0   | 4.4   | 5.1   | 5.1   |
| 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)