

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: P200313

Luminaire Tested: **GAP-AF-01-LED-U-SL4-7050-1200**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P200313  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24294)  
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-SL4-7050-1200  
Description: GALLEON PEDESTRIAN LUMINAIRE  
(1) 70 CRI, 5000K, 1200mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE IV SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6626 lumens  
Efficiency: N/A  
Efficacy: 98.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short - Semi-Cutoff  
BUG Rating: B1 - 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

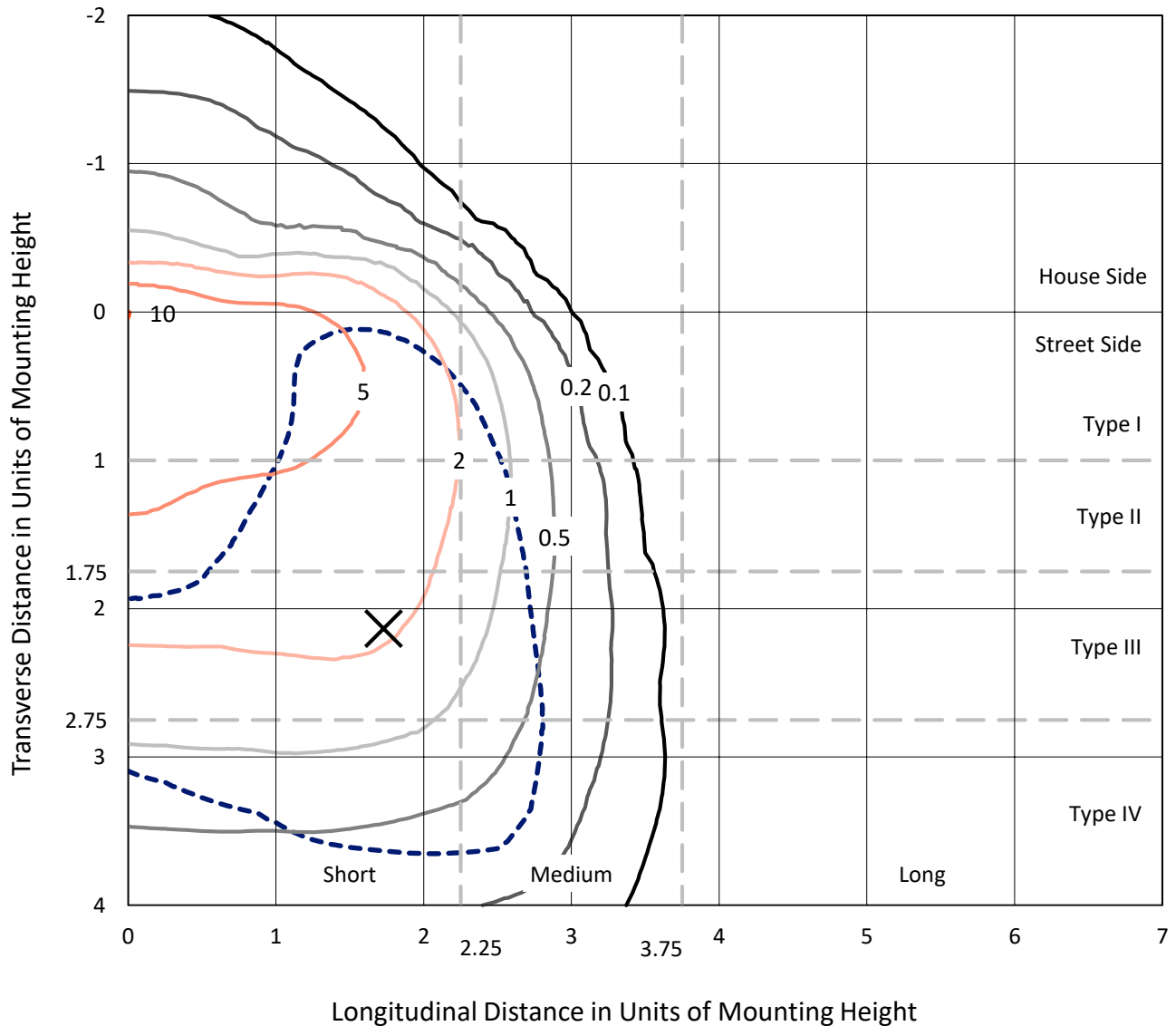


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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

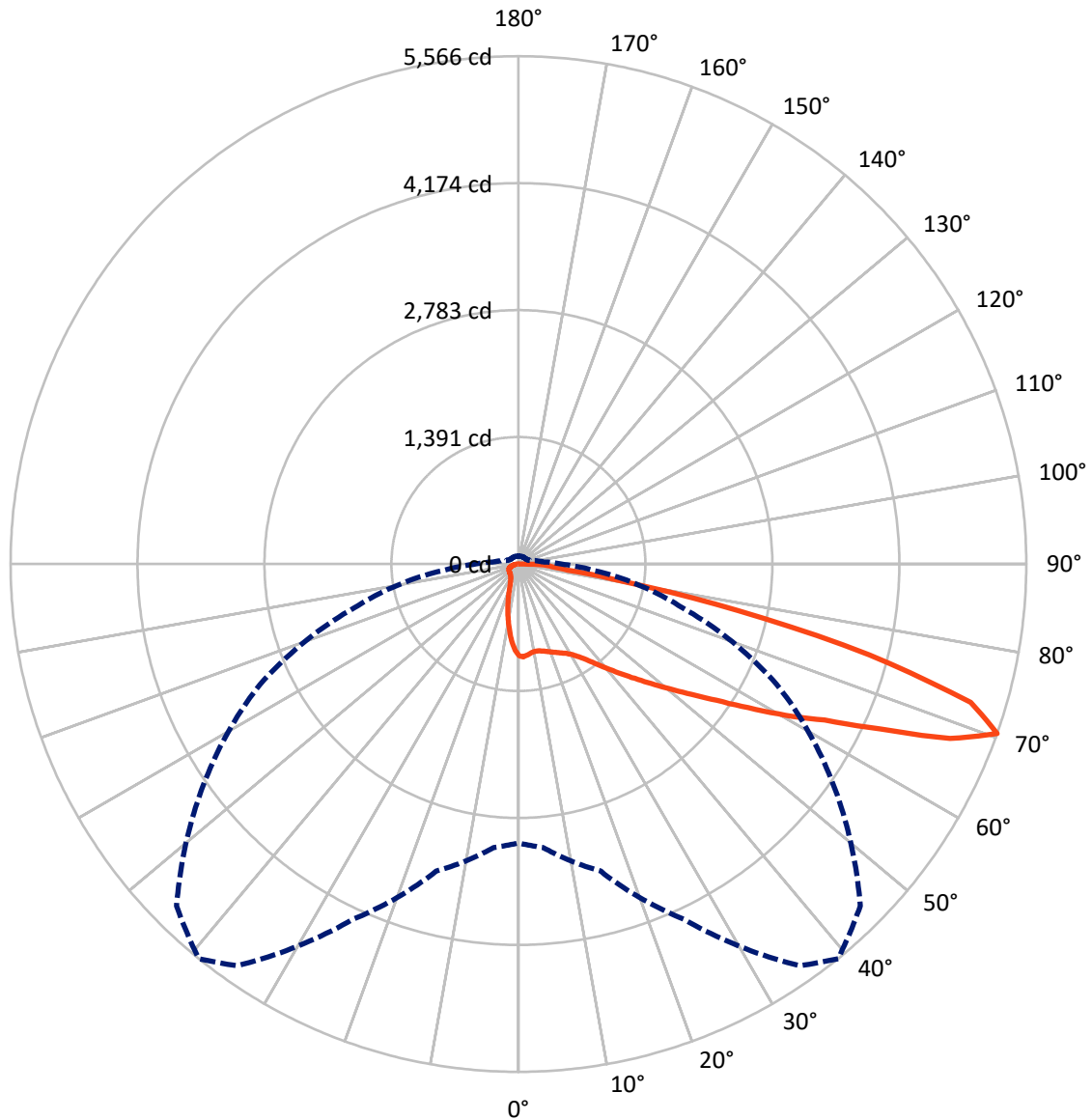


Based on 10 foot mounting height. Maximum calculated value = 10.1 fc  
 Type IV - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical



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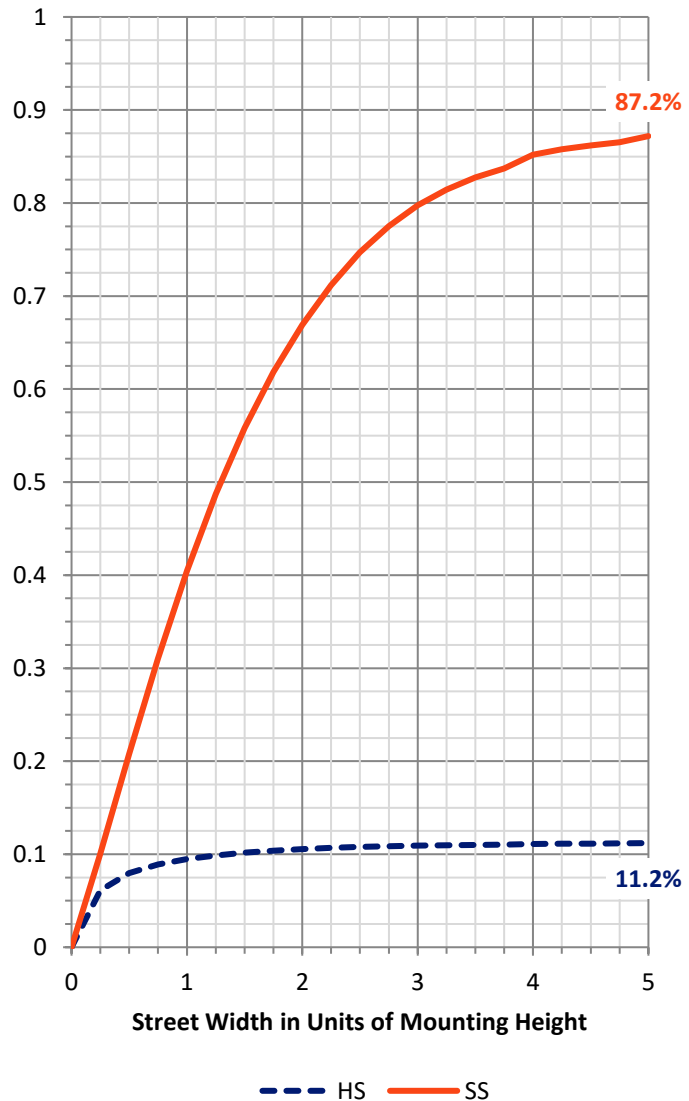
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 753.6    | 0.0    | 753.6  |
|                    | % Fixture | 11.4     | 0.0    | 11.4   |
| <b>Street Side</b> | Lumens    | 5872.4   | 0.0    | 5872.4 |
|                    | % Fixture | 88.6     | 0.0    | 88.6   |
| <b>Total</b>       | Lumens    | 6626.0   | 0.0    | 6626.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 86.3   | 1.3       |
| 10°-20°   | 215.8  | 3.3       |
| 20°-30°   | 336.0  | 5.1       |
| 30°-40°   | 523.4  | 7.9       |
| 40°-50°   | 878.7  | 13.3      |
| 50°-60°   | 1395.9 | 21.1      |
| 60°-70°   | 1862.0 | 28.1      |
| 70°-80°   | 1124.4 | 17.0      |
| 80°-90°   | 203.5  | 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°    | 6626.0 | 100.0     |
| 0°-180°   | 6626.0 | 100.0     |

**Coefficient of Utilization**



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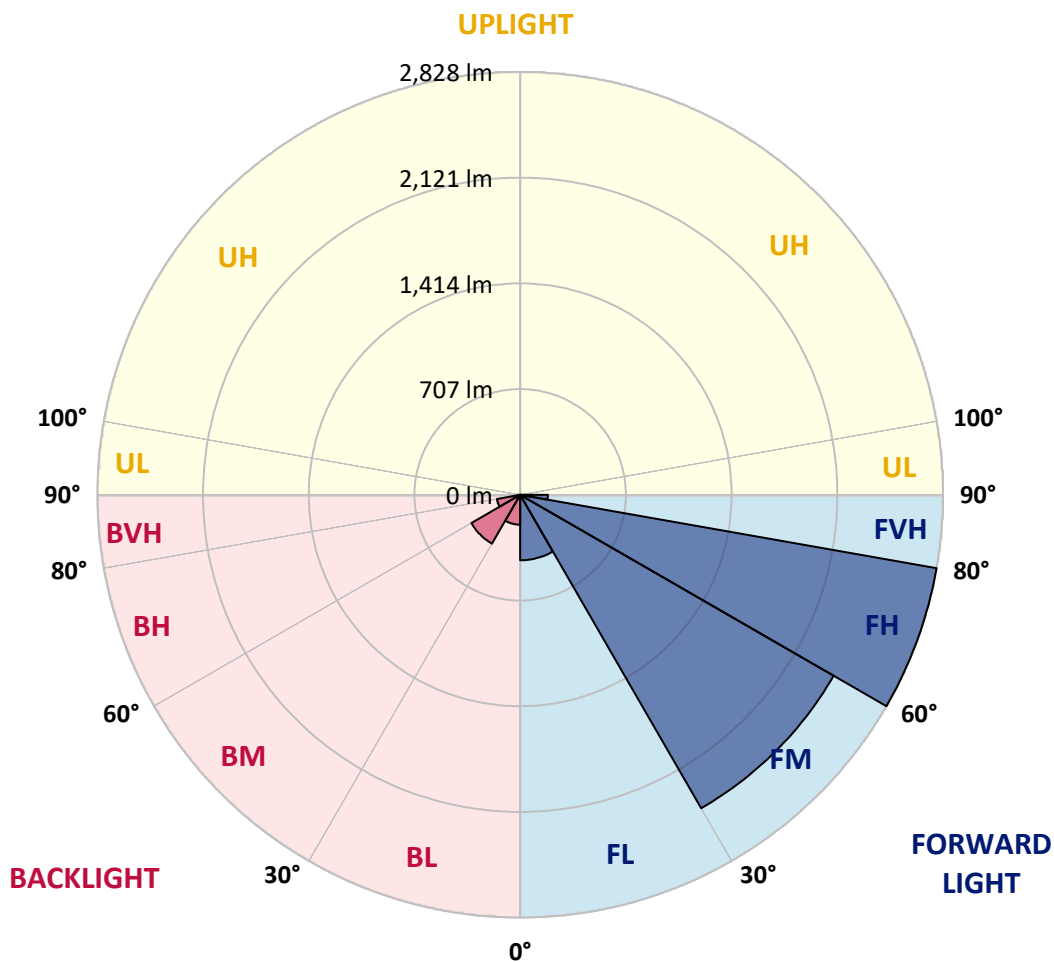
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 438.2  | 6.6       |                         |      |         |
| FM   | (30°-60°)   | 2420.9 | 36.5      |                         |      |         |
| FH   | (60°-80°)   | 2828.2 | 42.7      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 185.2  | 2.8       |                         |      | G2/225  |
| BL   | (0°-30°)    | 199.9  | 3.0       | B1/500                  |      |         |
| BM   | (30°-60°)   | 377.1  | 5.7       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 158.2  | 2.4       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 18.3   | 0.3       |                         |      | 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 IV Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 39°    | 45°    | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1005.9 | 1005.9 | 1005.9 | 1005.9 | 1005.9 | 1005.9 | 1005.9 | 1005.9 | 1005.9 | 1005.9 | 1005.9 |
| 2.5°  | 1025.5 | 1025.1 | 1022.4 | 1020.4 | 1018.7 | 1018.1 | 1019.4 | 1014.4 | 1010.0 | 1004.6 | 998.9  |
| 5°    | 1017.7 | 1017.4 | 1013.0 | 1009.0 | 1004.9 | 1003.6 | 1003.2 | 994.1  | 988.7  | 980.7  | 969.9  |
| 7.5°  | 1009.3 | 1007.6 | 1001.9 | 995.1  | 988.1  | 984.7  | 981.3  | 969.5  | 963.5  | 955.4  | 942.9  |
| 10°   | 1000.5 | 998.5  | 993.1  | 986.4  | 979.7  | 974.6  | 968.9  | 957.4  | 951.0  | 945.0  | 930.5  |
| 12.5° | 991.4  | 989.8  | 988.4  | 985.4  | 980.7  | 976.3  | 971.9  | 962.1  | 955.4  | 948.3  | 931.5  |
| 15°   | 990.1  | 989.4  | 992.5  | 994.5  | 991.8  | 989.1  | 984.4  | 975.9  | 968.9  | 961.8  | 939.9  |
| 17.5° | 1000.9 | 1000.5 | 1008.3 | 1013.7 | 1012.3 | 1007.6 | 1001.2 | 991.8  | 986.1  | 980.0  | 952.7  |
| 20°   | 1024.5 | 1026.1 | 1035.6 | 1042.6 | 1035.9 | 1029.2 | 1018.7 | 1005.6 | 1002.6 | 999.9  | 965.8  |
| 22.5° | 1068.9 | 1070.6 | 1077.3 | 1080.0 | 1062.5 | 1052.8 | 1038.3 | 1021.4 | 1019.4 | 1021.4 | 981.7  |
| 25°   | 1138.3 | 1136.6 | 1135.6 | 1125.5 | 1093.5 | 1078.4 | 1059.8 | 1042.3 | 1043.3 | 1052.4 | 1003.9 |
| 27.5° | 1230.3 | 1221.2 | 1207.0 | 1176.7 | 1125.9 | 1109.0 | 1086.4 | 1070.3 | 1076.7 | 1094.2 | 1037.3 |
| 30°   | 1325.6 | 1315.5 | 1282.8 | 1233.3 | 1168.3 | 1149.8 | 1124.5 | 1106.3 | 1123.2 | 1150.8 | 1081.7 |
| 32.5° | 1413.9 | 1412.5 | 1364.7 | 1301.0 | 1226.9 | 1210.8 | 1185.5 | 1164.9 | 1192.2 | 1234.3 | 1148.4 |
| 35°   | 1510.2 | 1513.3 | 1456.0 | 1379.5 | 1306.1 | 1289.2 | 1271.1 | 1255.6 | 1291.9 | 1349.9 | 1245.1 |
| 37.5° | 1613.3 | 1619.4 | 1551.7 | 1465.4 | 1396.4 | 1389.3 | 1378.5 | 1371.8 | 1428.0 | 1508.2 | 1380.2 |
| 40°   | 1751.1 | 1745.0 | 1651.1 | 1562.5 | 1507.2 | 1506.9 | 1503.5 | 1511.6 | 1605.2 | 1715.1 | 1553.7 |
| 42.5° | 1898.7 | 1880.8 | 1756.5 | 1666.6 | 1628.8 | 1640.3 | 1647.0 | 1680.0 | 1818.5 | 1966.4 | 1765.3 |
| 45°   | 2057.7 | 2017.6 | 1866.0 | 1776.7 | 1763.9 | 1788.2 | 1811.1 | 1882.8 | 2069.5 | 2252.4 | 1997.0 |
| 47.5° | 2184.7 | 2145.9 | 1979.2 | 1892.3 | 1920.2 | 1956.9 | 2001.1 | 2114.6 | 2350.4 | 2547.8 | 2225.8 |
| 50°   | 2284.7 | 2259.5 | 2093.4 | 2027.0 | 2092.4 | 2149.0 | 2221.1 | 2377.0 | 2642.8 | 2835.5 | 2437.7 |
| 52.5° | 2381.8 | 2362.9 | 2208.6 | 2165.1 | 2294.5 | 2372.7 | 2470.7 | 2658.7 | 2942.7 | 3118.5 | 2615.9 |
| 55°   | 2469.3 | 2455.9 | 2332.6 | 2337.3 | 2532.3 | 2634.1 | 2757.4 | 2979.4 | 3269.4 | 3370.8 | 2766.8 |
| 57.5° | 2568.1 | 2550.9 | 2474.1 | 2553.2 | 2837.9 | 2970.0 | 3130.3 | 3339.8 | 3576.0 | 3595.2 | 2881.7 |
| 60°   | 2667.4 | 2652.6 | 2631.0 | 2802.5 | 3226.0 | 3364.8 | 3516.7 | 3689.2 | 3886.9 | 3769.4 | 2875.0 |
| 62.5° | 2753.7 | 2755.4 | 2793.4 | 3064.3 | 3606.0 | 3766.7 | 3952.0 | 4122.4 | 4168.2 | 3799.7 | 2662.4 |
| 65°   | 2899.9 | 2926.5 | 3040.0 | 3434.8 | 4141.0 | 4355.9 | 4583.3 | 4556.0 | 4246.1 | 3516.4 | 2206.6 |
| 67.5° | 3073.7 | 3120.5 | 3350.6 | 3928.7 | 4817.1 | 5102.4 | 5190.3 | 4654.0 | 3934.4 | 2858.4 | 1572.9 |
| 70°   | 3056.2 | 3120.5 | 3484.7 | 4296.9 | 5374.3 | 5565.6 | 5298.8 | 4212.0 | 3124.2 | 1867.3 | 835.5  |
| 72.5° | 2713.9 | 2805.9 | 3211.5 | 4128.2 | 5198.8 | 5181.9 | 4600.1 | 3140.1 | 1856.2 | 749.9  | 326.4  |
| 75°   | 2068.5 | 2161.4 | 2510.4 | 3261.4 | 4108.9 | 3967.5 | 3264.0 | 1734.6 | 704.4  | 297.8  | 205.8  |
| 77.5° | 1189.9 | 1262.0 | 1531.5 | 2000.1 | 2606.8 | 2461.6 | 1816.8 | 771.5  | 342.9  | 207.5  | 160.7  |
| 80°   | 664.3  | 704.4  | 868.1  | 1014.7 | 1277.5 | 1171.0 | 812.9  | 479.4  | 256.0  | 150.6  | 124.0  |
| 82.5° | 525.2  | 560.9  | 702.1  | 640.1  | 583.5  | 538.3  | 466.9  | 426.8  | 204.5  | 95.0   | 74.1   |
| 85°   | 458.8  | 492.9  | 594.3  | 504.0  | 398.5  | 365.5  | 379.3  | 420.1  | 159.0  | 57.3   | 63.3   |
| 87.5° | 425.1  | 470.6  | 529.6  | 388.4  | 310.3  | 274.9  | 350.0  | 460.5  | 51.2   | 35.7   | 25.6   |
| 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°    | 1005.9 | 1005.9 | 1005.9 | 1005.9 | 1005.9 | 1005.9 | 1005.9 | 1005.9 | 1005.9 | 1005.9 | 1005.9 |
| 2.5°  | 993.8  | 988.4  | 979.7  | 971.9  | 959.8  | 953.4  | 946.3  | 941.2  | 937.2  | 933.8  | 939.2  |
| 5°    | 963.1  | 953.0  | 934.5  | 914.6  | 891.1  | 872.5  | 857.0  | 842.5  | 832.4  | 825.7  | 830.4  |
| 7.5°  | 934.2  | 917.7  | 888.7  | 852.6  | 812.2  | 777.9  | 749.6  | 724.6  | 707.5  | 696.3  | 700.7  |
| 10°   | 917.7  | 897.1  | 852.3  | 795.7  | 736.1  | 682.5  | 638.1  | 599.6  | 573.0  | 557.9  | 560.2  |
| 12.5° | 913.6  | 887.0  | 825.0  | 747.2  | 665.7  | 591.2  | 528.6  | 475.3  | 437.9  | 418.4  | 419.1  |
| 15°   | 916.7  | 882.6  | 799.4  | 700.7  | 597.6  | 503.6  | 425.5  | 360.8  | 317.3  | 295.1  | 294.8  |
| 17.5° | 921.7  | 879.3  | 772.5  | 650.5  | 528.6  | 419.4  | 332.2  | 268.8  | 230.4  | 212.6  | 211.2  |
| 20°   | 927.1  | 873.9  | 742.2  | 596.3  | 456.8  | 341.3  | 260.1  | 210.6  | 186.3  | 176.5  | 175.9  |
| 22.5° | 934.8  | 869.2  | 710.8  | 539.0  | 386.4  | 277.9  | 213.9  | 180.6  | 167.8  | 162.7  | 162.0  |
| 25°   | 947.3  | 866.8  | 677.5  | 479.4  | 323.1  | 232.4  | 186.3  | 165.7  | 158.3  | 155.0  | 154.6  |
| 27.5° | 968.2  | 870.2  | 646.1  | 421.4  | 271.5  | 201.8  | 170.8  | 158.3  | 152.9  | 149.9  | 149.6  |
| 30°   | 995.1  | 880.6  | 613.1  | 366.5  | 231.4  | 180.9  | 161.4  | 153.3  | 148.9  | 145.9  | 145.9  |
| 32.5° | 1040.0 | 898.1  | 578.4  | 319.0  | 202.8  | 166.4  | 154.3  | 148.9  | 145.2  | 142.8  | 142.5  |
| 35°   | 1106.0 | 931.1  | 546.1  | 279.6  | 182.3  | 156.0  | 148.2  | 144.2  | 141.5  | 140.1  | 140.1  |
| 37.5° | 1202.0 | 983.4  | 517.5  | 251.3  | 169.8  | 148.9  | 142.5  | 139.5  | 137.8  | 137.8  | 137.8  |
| 40°   | 1331.0 | 1055.5 | 494.2  | 232.4  | 162.7  | 143.8  | 138.1  | 135.8  | 134.8  | 135.1  | 135.1  |
| 42.5° | 1490.4 | 1149.1 | 478.7  | 219.3  | 159.3  | 140.8  | 135.1  | 133.1  | 132.1  | 131.7  | 132.1  |
| 45°   | 1671.9 | 1255.6 | 477.0  | 209.5  | 156.0  | 138.8  | 133.1  | 131.0  | 129.0  | 127.7  | 127.7  |
| 47.5° | 1848.5 | 1363.7 | 490.8  | 206.2  | 152.3  | 136.4  | 131.4  | 129.4  | 126.3  | 123.3  | 123.3  |
| 50°   | 2004.4 | 1455.7 | 509.4  | 207.5  | 150.9  | 133.1  | 128.7  | 127.7  | 123.0  | 119.6  | 119.3  |
| 52.5° | 2128.4 | 1526.4 | 524.5  | 211.6  | 152.3  | 130.7  | 125.3  | 125.7  | 120.6  | 116.9  | 116.6  |
| 55°   | 2227.8 | 1572.9 | 520.5  | 215.6  | 155.3  | 129.4  | 122.3  | 123.0  | 118.9  | 115.2  | 115.2  |
| 57.5° | 2271.3 | 1555.7 | 475.7  | 212.2  | 157.7  | 129.7  | 119.9  | 122.6  | 119.3  | 115.9  | 115.9  |
| 60°   | 2177.9 | 1403.1 | 391.8  | 197.4  | 154.6  | 128.7  | 118.9  | 124.0  | 123.6  | 120.3  | 119.9  |
| 62.5° | 1895.6 | 1129.9 | 303.9  | 175.5  | 144.2  | 123.6  | 116.2  | 123.6  | 127.3  | 126.3  | 126.0  |
| 65°   | 1461.1 | 804.8  | 232.1  | 151.9  | 130.0  | 115.2  | 109.1  | 115.9  | 120.9  | 122.3  | 122.0  |
| 67.5° | 948.3  | 493.2  | 178.9  | 129.7  | 114.2  | 105.4  | 100.1  | 103.1  | 104.1  | 104.1  | 103.4  |
| 70°   | 466.2  | 265.5  | 142.5  | 109.1  | 98.0   | 95.0   | 92.0   | 90.3   | 88.6   | 87.3   | 87.3   |
| 72.5° | 230.1  | 173.5  | 117.2  | 92.3   | 84.6   | 83.2   | 82.5   | 80.5   | 79.2   | 77.5   | 76.8   |
| 75°   | 170.1  | 141.2  | 99.7   | 77.8   | 72.8   | 71.4   | 72.8   | 71.1   | 70.7   | 69.4   | 68.7   |
| 77.5° | 139.8  | 120.3  | 85.9   | 66.7   | 62.3   | 60.0   | 62.0   | 62.3   | 62.7   | 60.6   | 60.0   |
| 80°   | 113.5  | 101.7  | 71.8   | 55.2   | 51.2   | 49.5   | 50.9   | 53.6   | 54.2   | 51.2   | 49.9   |
| 82.5° | 81.9   | 83.2   | 57.9   | 43.1   | 39.8   | 38.4   | 41.1   | 44.5   | 45.1   | 40.8   | 39.8   |
| 85°   | 68.7   | 69.4   | 44.5   | 30.7   | 27.3   | 25.3   | 29.6   | 33.0   | 35.4   | 31.0   | 30.0   |
| 87.5° | 28.6   | 40.8   | 25.6   | 17.2   | 15.2   | 13.1   | 15.8   | 17.5   | 21.2   | 19.5   | 19.2   |
| 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)