

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: P200140

Luminaire Tested: **GAP-AF-02-LED-U-SL4-600-HSS**

Issue Date: 3/3/2020

#### Test Information

Test Method: LM-79-08  
Report Number: P200140  
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-02-LED-U-SL4-600-HSS  
Description: GALLEON PEDESTRIAN LUMINAIRE  
(2) 70 CRI, 4000K, 615mA LIGHTSQUARES 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: 6794.4 lumens  
Efficiency: N/A  
Efficacy: 102.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short - Semi-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

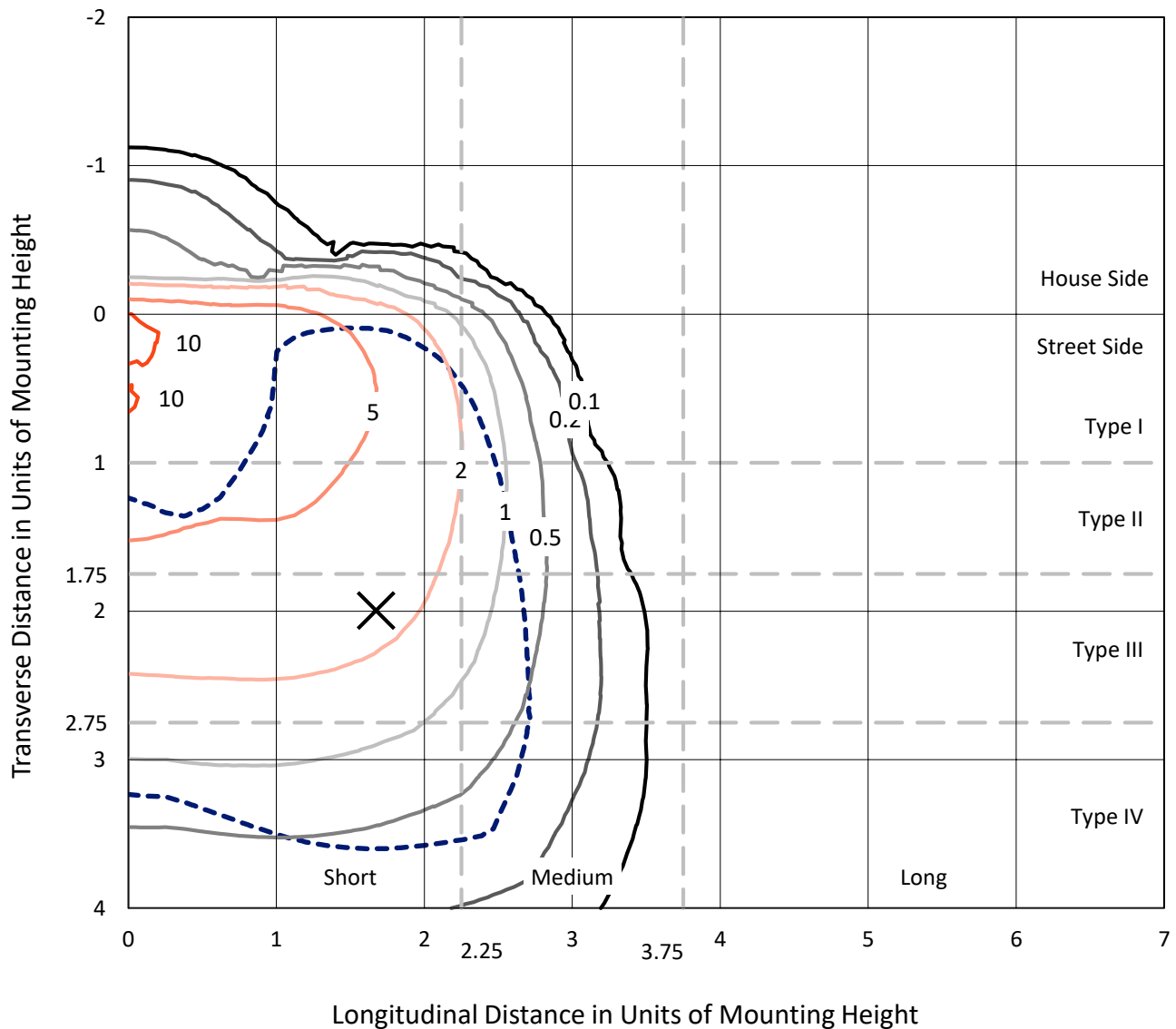


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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 --- 1/2 Max cd

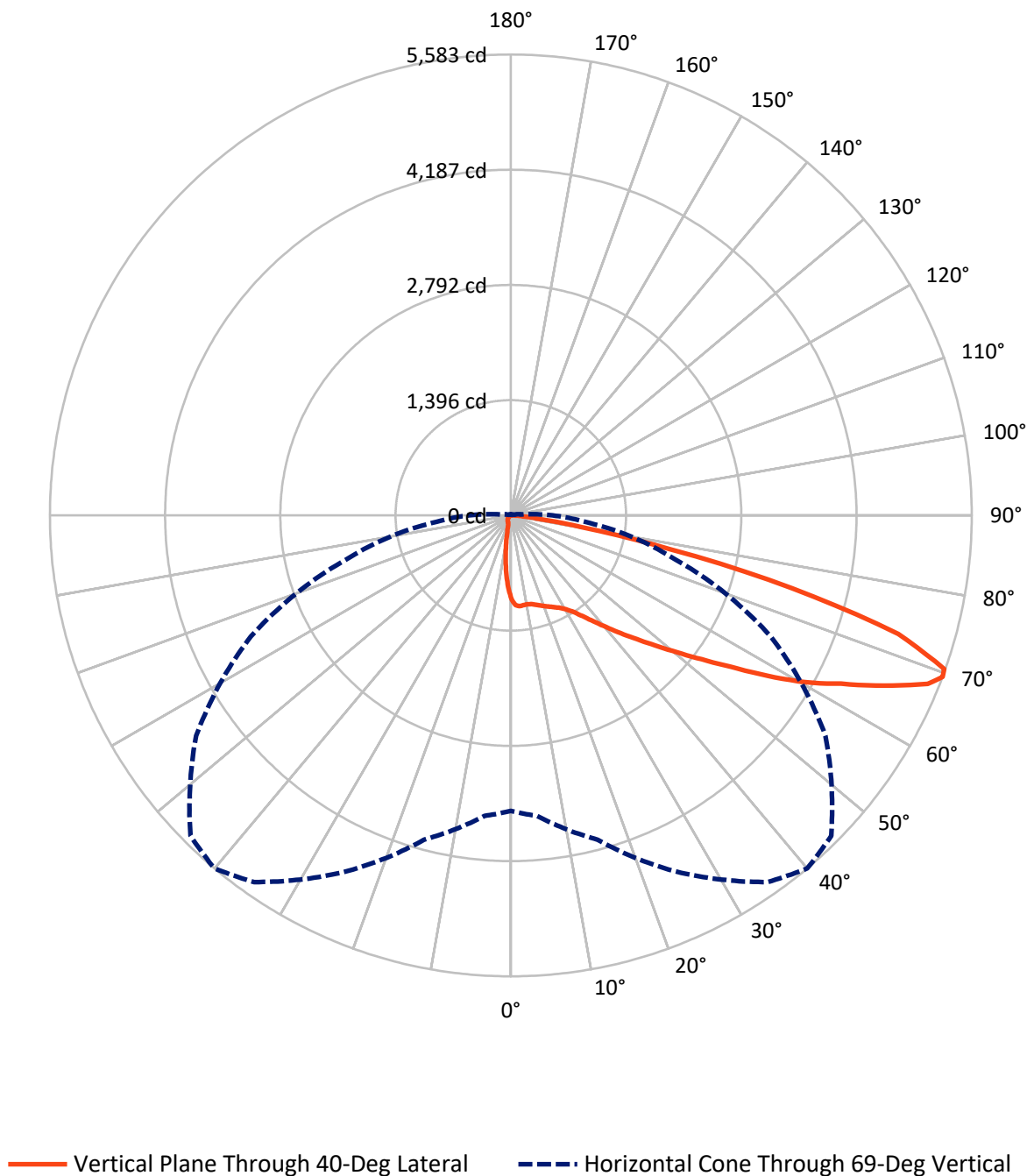


Based on 10 foot mounting height. Maximum calculated value = 11.1 fc  
 Type IV - Short - Semi-Cutoff

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## Luminous Intensity Polar Plot



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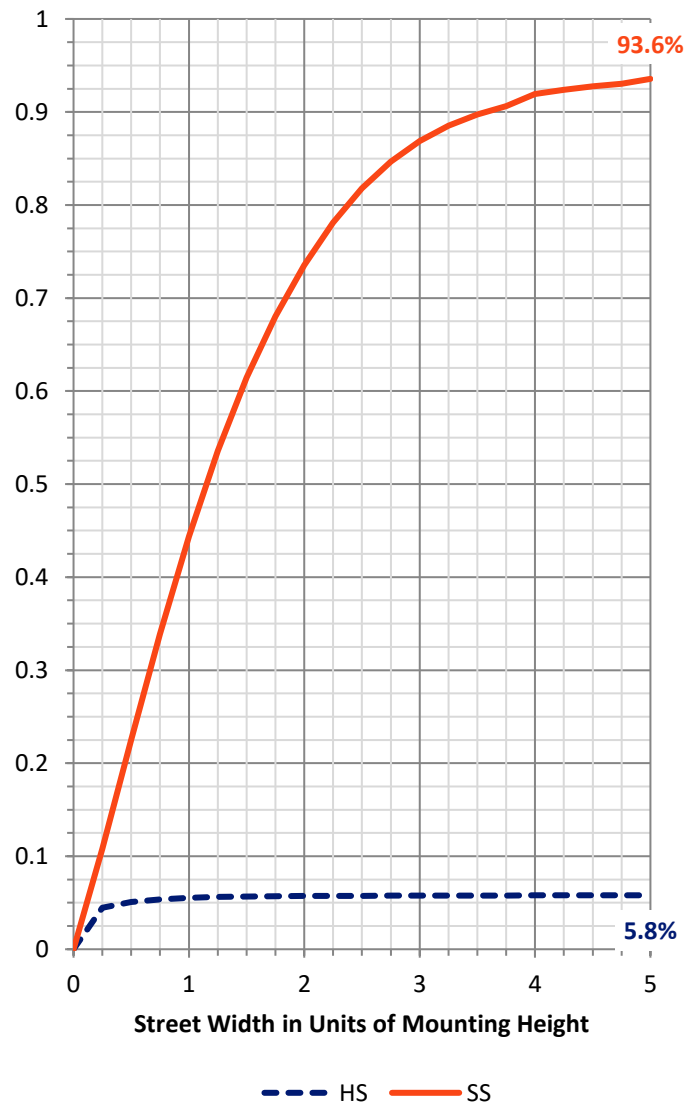
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 397.5    | 0.0    | 397.5  |
|                    | % Fixture | 5.9      | 0.0    | 5.9    |
| <b>Street Side</b> | Lumens    | 6396.9   | 0.0    | 6396.9 |
|                    | % Fixture | 94.1     | 0.0    | 94.1   |
| <b>Total</b>       | Lumens    | 6794.4   | 0.0    | 6794.4 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 82.3   | 1.2       |
| 10°-20°   | 202.4  | 3.0       |
| 20°-30°   | 340.9  | 5.0       |
| 30°-40°   | 558.1  | 8.2       |
| 40°-50°   | 966.3  | 14.2      |
| 50°-60°   | 1522.1 | 22.4      |
| 60°-70°   | 1987.8 | 29.3      |
| 70°-80°   | 1023.8 | 15.1      |
| 80°-90°   | 110.7  | 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°    | 6794.4 | 100.0     |
| 0°-180°   | 6794.4 | 100.0     |

**Coefficient of Utilization**



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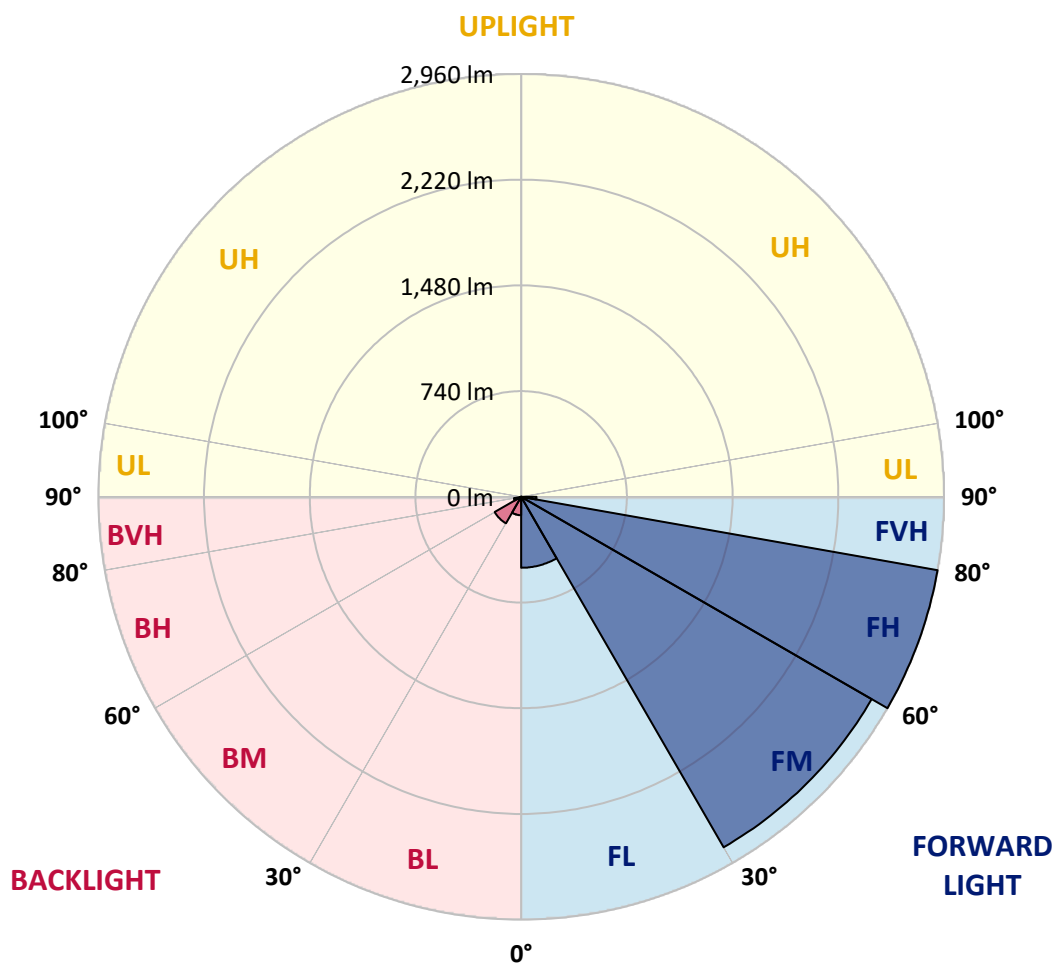
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 496.9  | 7.3       |                         |      |         |
| FM   | (30°-60°)   | 2832.9 | 41.7      |                         |      |         |
| FH   | (60°-80°)   | 2959.9 | 43.6      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 107.3  | 1.6       |                         |      | G2/225  |
| BL   | (0°-30°)    | 128.8  | 1.9       | B1/500                  |      |         |
| BM   | (30°-60°)   | 213.7  | 3.1       | B0/220                  |      |         |
| BH   | (60°-80°)   | 51.6   | 0.8       | B0/110                  |      | G0/110  |
| BVH  | (80°-90°)   | 3.5    | 0.1       |                         |      | G0/10   |
| 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°    | 40°    | 45°    | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1015.1 | 1015.1 | 1015.1 | 1015.1 | 1015.1 | 1015.1 | 1015.1 | 1015.1 | 1015.1 | 1015.1 | 1015.1 |
| 2.5°  | 1114.6 | 1108.6 | 1104.9 | 1100.1 | 1093.9 | 1088.7 | 1086.7 | 1071.7 | 1057.6 | 1038.2 | 1015.9 |
| 5°    | 1135.3 | 1133.2 | 1126.8 | 1120.2 | 1113.0 | 1104.9 | 1100.5 | 1082.7 | 1062.4 | 1034.1 | 995.3  |
| 7.5°  | 1137.2 | 1134.9 | 1126.8 | 1117.9 | 1107.8 | 1098.0 | 1090.4 | 1072.6 | 1053.9 | 1025.2 | 977.9  |
| 10°   | 1134.0 | 1131.2 | 1125.1 | 1115.4 | 1102.8 | 1093.5 | 1085.9 | 1068.9 | 1053.1 | 1027.2 | 974.7  |
| 12.5° | 1130.4 | 1127.6 | 1124.7 | 1119.8 | 1109.0 | 1102.4 | 1096.0 | 1079.8 | 1065.7 | 1043.8 | 986.4  |
| 15°   | 1134.0 | 1132.4 | 1135.7 | 1133.6 | 1127.6 | 1121.9 | 1115.4 | 1100.9 | 1087.9 | 1069.7 | 1007.8 |
| 17.5° | 1149.4 | 1149.4 | 1159.5 | 1160.7 | 1155.0 | 1146.9 | 1137.6 | 1123.1 | 1112.2 | 1096.8 | 1033.3 |
| 20°   | 1185.4 | 1184.2 | 1197.2 | 1199.5 | 1185.8 | 1173.2 | 1159.5 | 1141.7 | 1133.2 | 1123.5 | 1058.4 |
| 22.5° | 1247.3 | 1241.6 | 1249.3 | 1246.9 | 1219.8 | 1200.3 | 1183.3 | 1161.6 | 1157.1 | 1152.7 | 1086.3 |
| 25°   | 1327.8 | 1324.5 | 1329.7 | 1305.9 | 1258.2 | 1231.9 | 1211.7 | 1187.0 | 1187.0 | 1191.4 | 1117.9 |
| 27.5° | 1444.6 | 1432.5 | 1414.7 | 1372.6 | 1301.1 | 1267.5 | 1245.6 | 1219.4 | 1226.2 | 1242.8 | 1159.5 |
| 30°   | 1564.3 | 1551.0 | 1510.2 | 1445.4 | 1353.3 | 1318.1 | 1292.6 | 1265.1 | 1281.2 | 1311.5 | 1215.4 |
| 32.5° | 1682.4 | 1667.5 | 1609.6 | 1528.0 | 1428.0 | 1392.8 | 1368.2 | 1337.8 | 1364.9 | 1415.9 | 1297.0 |
| 35°   | 1796.9 | 1783.5 | 1716.8 | 1620.6 | 1527.6 | 1498.4 | 1475.8 | 1449.5 | 1484.3 | 1555.4 | 1412.3 |
| 37.5° | 1925.5 | 1911.0 | 1829.6 | 1725.3 | 1648.5 | 1627.4 | 1610.8 | 1584.6 | 1645.2 | 1749.6 | 1572.8 |
| 40°   | 2083.6 | 2059.0 | 1949.3 | 1845.4 | 1788.4 | 1778.3 | 1766.9 | 1763.4 | 1857.6 | 2001.9 | 1786.8 |
| 42.5° | 2264.8 | 2224.4 | 2074.7 | 1972.0 | 1942.1 | 1949.3 | 1946.6 | 1962.7 | 2123.2 | 2315.8 | 2047.2 |
| 45°   | 2446.0 | 2393.8 | 2214.3 | 2107.1 | 2111.2 | 2136.6 | 2152.4 | 2217.1 | 2456.1 | 2675.7 | 2327.5 |
| 47.5° | 2599.7 | 2548.4 | 2348.1 | 2253.0 | 2301.6 | 2351.8 | 2394.6 | 2517.2 | 2798.3 | 3030.0 | 2545.5 |
| 50°   | 2731.2 | 2682.6 | 2490.1 | 2413.7 | 2522.8 | 2603.7 | 2673.3 | 2854.9 | 3166.3 | 3299.7 | 2698.3 |
| 52.5° | 2838.7 | 2806.4 | 2637.3 | 2597.7 | 2775.6 | 2894.1 | 2996.0 | 3213.6 | 3492.3 | 3519.0 | 2817.3 |
| 55°   | 2943.4 | 2920.4 | 2795.4 | 2816.5 | 3072.4 | 3233.9 | 3362.8 | 3594.1 | 3772.9 | 3701.8 | 2931.4 |
| 57.5° | 3063.9 | 3043.0 | 2975.8 | 3093.9 | 3462.8 | 3665.7 | 3806.5 | 3931.5 | 4020.1 | 3888.6 | 3038.9 |
| 60°   | 3186.9 | 3174.8 | 3176.4 | 3402.1 | 3910.8 | 4105.8 | 4183.5 | 4215.8 | 4262.7 | 4064.5 | 3045.0 |
| 62.5° | 3304.2 | 3327.2 | 3405.7 | 3745.0 | 4340.0 | 4489.6 | 4528.8 | 4560.8 | 4505.8 | 4092.4 | 2813.2 |
| 65°   | 3502.8 | 3540.4 | 3727.6 | 4204.0 | 4812.0 | 4972.1 | 5012.6 | 4902.9 | 4544.2 | 3731.7 | 2288.2 |
| 67.5° | 3599.9 | 3668.6 | 4002.7 | 4631.9 | 5269.7 | 5447.7 | 5432.7 | 4925.2 | 4077.9 | 2845.5 | 1468.4 |
| 69°   | 3579.6 | 3652.9 | 4066.1 | 4763.0 | 5421.8 | 5583.2 | 5488.1 | 4653.0 | 3474.0 | 2061.3 | 901.5  |
| 70°   | 3499.5 | 3573.6 | 4033.4 | 4758.2 | 5441.2 | 5569.0 | 5385.4 | 4317.0 | 2937.4 | 1507.3 | 563.7  |
| 72.5° | 2922.5 | 2986.3 | 3580.8 | 4300.7 | 5012.6 | 4908.6 | 4505.4 | 2990.8 | 1431.3 | 410.5  | 126.9  |
| 75°   | 1799.0 | 1834.5 | 2569.3 | 3239.9 | 3785.8 | 3519.0 | 3001.6 | 1487.9 | 426.7  | 116.1  | 70.4   |
| 77.5° | 950.4  | 966.6  | 1406.7 | 1909.7 | 2399.9 | 1985.8 | 1538.4 | 580.3  | 196.5  | 72.8   | 50.9   |
| 80°   | 561.8  | 573.9  | 757.5  | 873.2  | 1038.6 | 867.5  | 615.1  | 356.3  | 140.8  | 45.7   | 45.3   |
| 82.5° | 321.5  | 329.2  | 549.2  | 485.3  | 409.3  | 349.4  | 306.2  | 337.7  | 84.5   | 30.7   | 47.0   |
| 85°   | 118.0  | 119.7  | 309.0  | 369.3  | 243.5  | 144.7  | 152.1  | 279.9  | 22.6   | 19.4   | 36.8   |
| 87.5° | 55.0   | 53.8   | 159.0  | 226.1  | 142.4  | 91.8   | 118.5  | 61.5   | 8.9    | 12.6   | 10.1   |
| 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°    | 1015.1 | 1015.1 | 1015.1 | 1015.1 | 1015.1 | 1015.1 | 1015.1 | 1015.1 | 1015.1 | 1015.1 | 1015.1 |
| 2.5°  | 1003.0 | 988.1  | 961.0  | 933.0  | 904.7  | 882.9  | 861.4  | 844.4  | 838.8  | 828.3  | 829.1  |
| 5°    | 972.2  | 944.8  | 888.1  | 830.7  | 770.9  | 721.5  | 675.0  | 637.4  | 619.2  | 600.6  | 600.6  |
| 7.5°  | 945.5  | 905.5  | 816.9  | 723.5  | 626.9  | 545.5  | 472.4  | 417.4  | 387.1  | 362.7  | 362.3  |
| 10°   | 935.5  | 881.3  | 757.5  | 623.6  | 489.0  | 378.2  | 291.2  | 235.4  | 206.6  | 188.0  | 187.3  |
| 12.5° | 939.9  | 872.8  | 711.8  | 531.4  | 362.3  | 243.1  | 168.7  | 132.7  | 120.5  | 114.9  | 114.9  |
| 15°   | 952.9  | 870.3  | 666.1  | 441.2  | 256.0  | 152.1  | 112.0  | 102.3  | 101.5  | 101.5  | 101.5  |
| 17.5° | 968.6  | 871.1  | 619.2  | 353.4  | 174.3  | 108.8  | 96.7   | 95.4   | 96.3   | 96.3   | 96.3   |
| 20°   | 984.8  | 871.6  | 568.7  | 272.2  | 123.0  | 94.6   | 91.0   | 90.6   | 91.5   | 91.5   | 91.8   |
| 22.5° | 1004.6 | 873.6  | 518.1  | 203.5  | 101.5  | 89.4   | 86.5   | 86.5   | 87.0   | 87.0   | 86.5   |
| 25°   | 1027.2 | 877.6  | 465.5  | 150.9  | 92.6   | 85.7   | 83.3   | 82.9   | 83.3   | 82.9   | 82.6   |
| 27.5° | 1055.6 | 883.3  | 406.8  | 118.0  | 88.6   | 82.1   | 80.1   | 80.1   | 79.7   | 79.3   | 78.9   |
| 30°   | 1091.2 | 889.8  | 340.9  | 100.2  | 84.5   | 78.9   | 76.8   | 76.4   | 76.0   | 75.2   | 75.2   |
| 32.5° | 1145.4 | 903.9  | 275.8  | 91.0   | 80.1   | 74.4   | 72.8   | 72.8   | 72.0   | 71.2   | 70.8   |
| 35°   | 1228.7 | 931.8  | 217.6  | 85.3   | 75.2   | 69.6   | 67.5   | 67.5   | 66.7   | 66.3   | 65.9   |
| 37.5° | 1344.0 | 974.3  | 169.1  | 80.1   | 70.4   | 64.3   | 62.3   | 61.9   | 61.1   | 60.3   | 59.8   |
| 40°   | 1497.2 | 1026.8 | 133.1  | 75.2   | 65.5   | 59.0   | 57.4   | 56.7   | 55.0   | 53.8   | 53.8   |
| 42.5° | 1689.7 | 1086.7 | 108.0  | 70.0   | 59.8   | 54.2   | 53.0   | 51.8   | 48.9   | 47.8   | 47.4   |
| 45°   | 1891.1 | 1140.5 | 91.5   | 63.9   | 54.2   | 49.3   | 48.5   | 46.5   | 42.9   | 41.6   | 41.6   |
| 47.5° | 2036.3 | 1153.1 | 80.5   | 58.2   | 48.9   | 44.1   | 43.7   | 40.0   | 36.8   | 36.0   | 35.6   |
| 50°   | 2126.9 | 1128.3 | 71.6   | 52.6   | 44.1   | 39.2   | 38.1   | 33.6   | 31.5   | 30.7   | 30.4   |
| 52.5° | 2188.0 | 1084.3 | 64.3   | 47.8   | 39.6   | 34.8   | 31.9   | 28.7   | 27.1   | 26.3   | 26.3   |
| 55°   | 2236.9 | 1022.0 | 57.0   | 43.3   | 36.0   | 31.1   | 27.1   | 24.7   | 23.0   | 22.2   | 22.2   |
| 57.5° | 2250.7 | 937.4  | 49.7   | 39.6   | 32.3   | 27.5   | 23.0   | 21.5   | 19.4   | 19.0   | 19.0   |
| 60°   | 2150.8 | 785.0  | 44.1   | 35.2   | 29.2   | 23.8   | 20.3   | 18.2   | 16.2   | 15.8   | 15.3   |
| 62.5° | 1887.4 | 607.4  | 38.9   | 31.1   | 25.5   | 20.7   | 17.4   | 14.9   | 13.3   | 13.3   | 13.3   |
| 65°   | 1439.8 | 407.2  | 34.0   | 27.1   | 22.2   | 17.4   | 14.9   | 12.2   | 11.4   | 11.4   | 11.8   |
| 67.5° | 861.8  | 221.7  | 29.2   | 23.0   | 19.0   | 14.5   | 12.6   | 10.5   | 10.1   | 10.5   | 10.5   |
| 69°   | 505.1  | 130.2  | 26.3   | 20.7   | 16.6   | 13.0   | 10.9   | 9.3    | 10.1   | 10.5   | 10.5   |
| 70°   | 311.8  | 87.8   | 24.2   | 18.6   | 14.9   | 11.8   | 10.1   | 8.9    | 9.7    | 10.1   | 10.1   |
| 72.5° | 87.0   | 45.3   | 19.4   | 14.5   | 12.2   | 9.7    | 8.1    | 8.1    | 9.3    | 9.7    | 9.7    |
| 75°   | 56.7   | 33.6   | 14.9   | 10.9   | 9.3    | 7.7    | 6.9    | 7.7    | 8.9    | 9.3    | 9.3    |
| 77.5° | 47.0   | 27.5   | 12.2   | 8.9    | 7.7    | 7.3    | 6.4    | 6.9    | 8.1    | 8.5    | 8.5    |
| 80°   | 42.9   | 19.4   | 9.7    | 8.1    | 6.9    | 6.4    | 6.0    | 5.6    | 7.3    | 7.7    | 7.7    |
| 82.5° | 40.8   | 15.3   | 8.5    | 7.3    | 6.4    | 5.6    | 5.2    | 5.6    | 6.4    | 6.9    | 7.3    |
| 85°   | 25.5   | 10.1   | 7.7    | 6.9    | 5.6    | 5.2    | 5.2    | 5.2    | 6.0    | 6.4    | 6.4    |
| 87.5° | 9.3    | 8.1    | 6.9    | 5.6    | 4.8    | 4.8    | 4.8    | 4.8    | 5.2    | 6.0    | 6.0    |
| 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)