

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: P199902

Luminaire Tested: **GAP-AF-02-LED-U-5MQ-7030-800**

Issue Date: 3/3/2020

### Test Information

Test Method: LM-79-08  
Report Number: P199902  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24142)  
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-5MQ-7030-800  
Description: GALLEON PEDESTRIAN LUMINAIRE  
(2) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 10198.2 lumens  
Efficiency: N/A  
Efficacy: 118.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type V - Short - Full Cutoff  
BUG Rating: B3 - U0 - G2

Input Watts (W): 86  
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

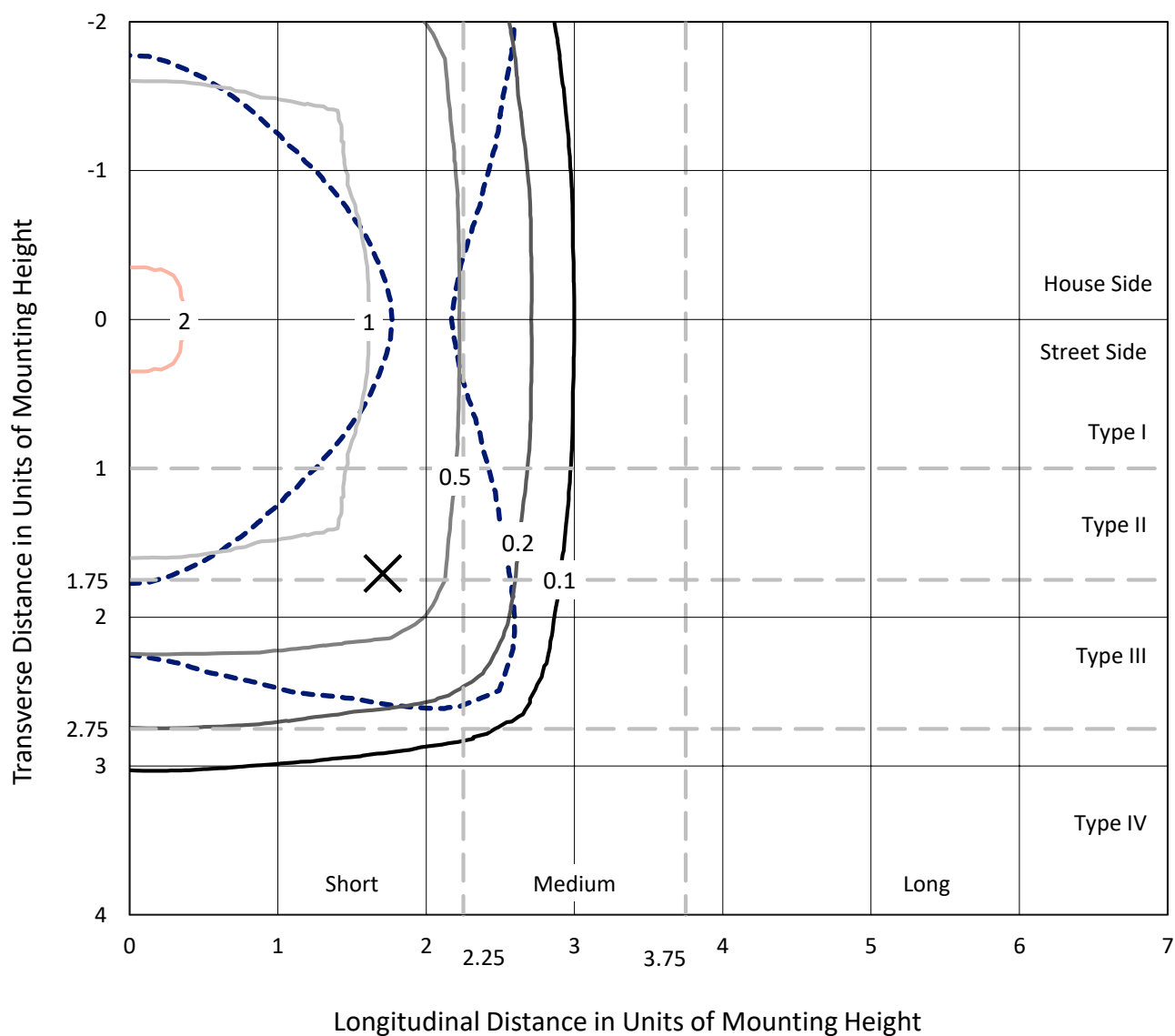


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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
- - - 1/2 Max cd

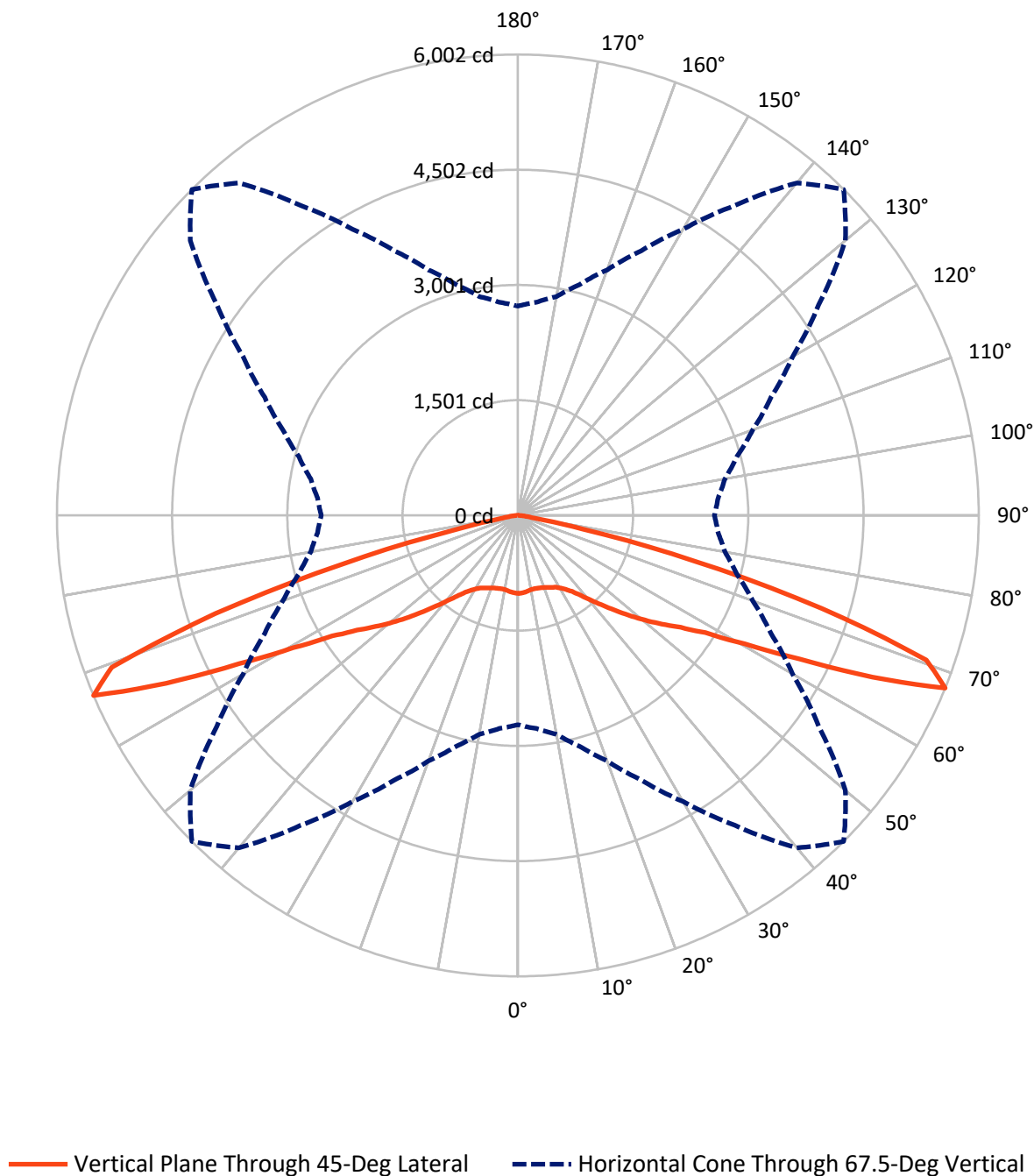


Based on 20 foot mounting height. Maximum calculated value = 2.5 fc  
Type V - Short - Full Cutoff

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## Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 5099.1   | 0.0    | 5099.1  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 5099.1   | 0.0    | 5099.1  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 10198.2  | 0.0    | 10198.2 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 95.1    | 0.9       |
| 10°-20°   | 276.0   | 2.7       |
| 20°-30°   | 469.2   | 4.6       |
| 30°-40°   | 767.1   | 7.5       |
| 40°-50°   | 1369.3  | 13.4      |
| 50°-60°   | 2308.7  | 22.6      |
| 60°-70°   | 3582.8  | 35.1      |
| 70°-80°   | 1258.8  | 12.3      |
| 80°-90°   | 71.1    | 0.7       |
| 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°    | 10198.2 | 100.0     |
| 0°-180°   | 10198.2 | 100.0     |

**Coefficient of Utilization**



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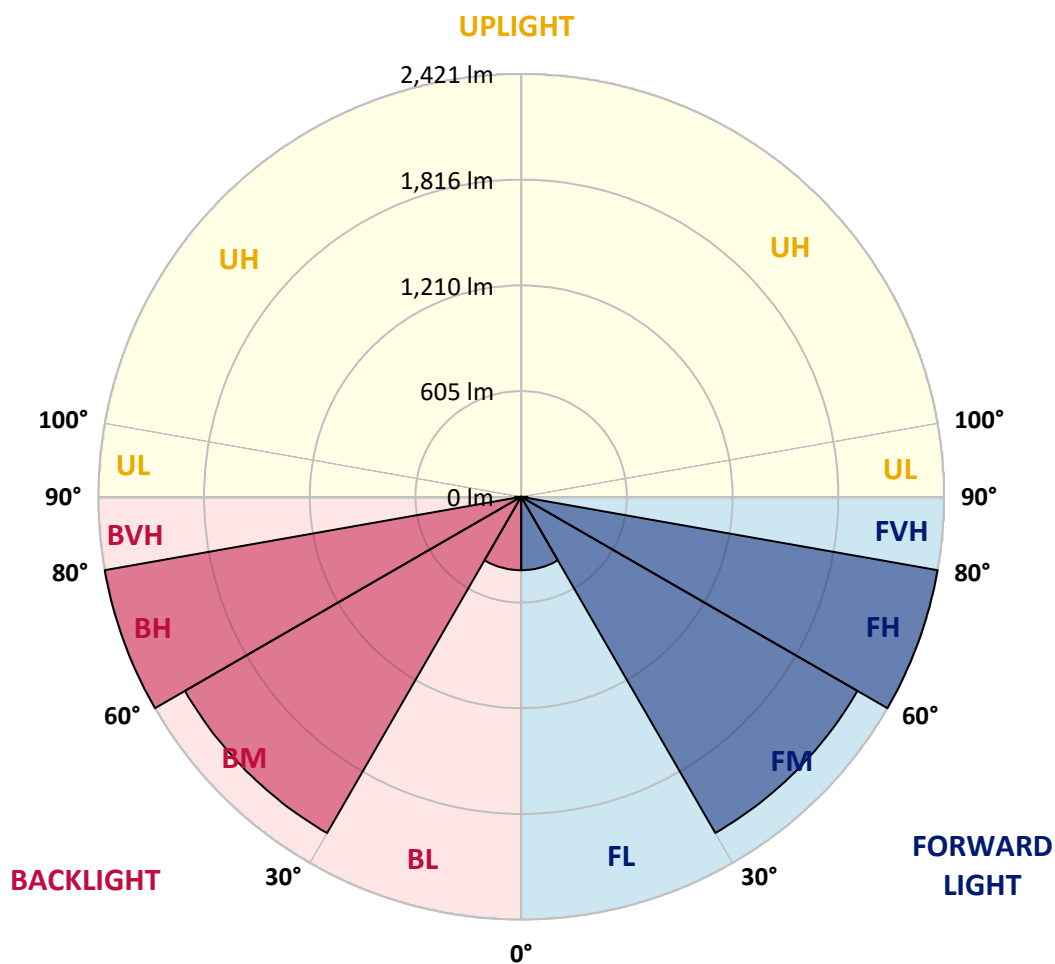
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 420.2  | 4.1       |                         |      |         |
| FM   | (30°-60°)   | 2222.6 | 21.8      |                         |      |         |
| FH   | (60°-80°)   | 2420.8 | 23.7      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 35.6   | 0.3       |                         |      | G1/100  |
| BL   | (0°-30°)    | 420.2  | 4.1       | B1/500                  |      |         |
| BM   | (30°-60°)   | 2222.6 | 21.8      | B2/2500                 |      |         |
| BH   | (60°-80°)   | 2420.8 | 23.7      | B3/2500                 |      | G2/5000 |
| BVH  | (80°-90°)   | 35.6   | 0.3       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G2**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1016.3 | 1016.3 | 1016.3 | 1016.3 | 1016.3 | 1016.3 | 1016.3 | 1016.3 | 1016.3 | 1016.3 | 1016.3 |
| 2.5°  | 1012.5 | 1013.5 | 1013.5 | 1013.5 | 1013.1 | 1013.1 | 1012.1 | 1013.1 | 1012.5 | 1011.2 | 1011.6 |
| 5°    | 1004.1 | 1005.0 | 1005.0 | 1004.5 | 1006.0 | 1005.5 | 1004.1 | 1005.0 | 1004.5 | 1003.6 | 1004.1 |
| 7.5°  | 992.0  | 993.2  | 993.2  | 992.8  | 994.3  | 993.8  | 992.8  | 993.2  | 993.2  | 992.0  | 992.0  |
| 10°   | 978.3  | 979.3  | 979.3  | 978.8  | 981.1  | 981.1  | 980.6  | 982.0  | 982.6  | 981.1  | 980.2  |
| 12.5° | 965.7  | 967.1  | 967.1  | 968.9  | 971.4  | 972.2  | 974.6  | 976.4  | 978.3  | 977.9  | 976.0  |
| 15°   | 958.1  | 959.1  | 960.9  | 963.3  | 967.1  | 970.3  | 974.0  | 978.3  | 982.0  | 983.0  | 980.2  |
| 17.5° | 953.5  | 954.8  | 957.6  | 960.9  | 966.1  | 971.8  | 977.4  | 983.0  | 988.1  | 990.0  | 986.7  |
| 20°   | 952.0  | 953.0  | 955.8  | 961.5  | 968.5  | 976.9  | 984.9  | 991.4  | 998.5  | 1000.9 | 998.5  |
| 22.5° | 954.8  | 956.8  | 960.1  | 966.6  | 976.0  | 986.7  | 996.1  | 1005.0 | 1013.9 | 1018.2 | 1014.9 |
| 25°   | 967.5  | 969.3  | 973.6  | 982.0  | 992.4  | 1003.6 | 1014.5 | 1024.8 | 1032.7 | 1037.0 | 1034.5 |
| 27.5° | 991.0  | 993.2  | 998.5  | 1007.0 | 1018.2 | 1030.4 | 1042.2 | 1050.5 | 1057.1 | 1058.5 | 1055.7 |
| 30°   | 1026.2 | 1031.3 | 1037.4 | 1046.8 | 1060.0 | 1070.2 | 1082.0 | 1089.5 | 1097.4 | 1097.4 | 1095.1 |
| 32.5° | 1081.0 | 1086.1 | 1092.7 | 1101.7 | 1111.9 | 1123.1 | 1133.6 | 1140.1 | 1148.6 | 1149.0 | 1143.4 |
| 35°   | 1163.1 | 1165.5 | 1171.0 | 1176.7 | 1186.1 | 1196.0 | 1204.8 | 1209.1 | 1216.0 | 1216.6 | 1211.3 |
| 37.5° | 1271.4 | 1271.9 | 1275.6 | 1277.6 | 1286.0 | 1296.8 | 1305.2 | 1308.1 | 1314.6 | 1313.7 | 1308.5 |
| 40°   | 1397.5 | 1399.9 | 1401.4 | 1404.2 | 1413.0 | 1423.4 | 1432.3 | 1433.7 | 1440.7 | 1439.4 | 1432.7 |
| 42.5° | 1543.4 | 1544.4 | 1552.3 | 1556.6 | 1565.0 | 1570.2 | 1581.4 | 1582.8 | 1591.3 | 1587.5 | 1580.0 |
| 45°   | 1707.0 | 1715.6 | 1723.0 | 1731.5 | 1740.4 | 1746.5 | 1755.5 | 1753.5 | 1759.2 | 1753.5 | 1749.4 |
| 47.5° | 1879.3 | 1885.4 | 1902.2 | 1915.4 | 1929.8 | 1935.1 | 1947.8 | 1942.1 | 1947.8 | 1939.8 | 1938.4 |
| 50°   | 2068.8 | 2079.5 | 2094.1 | 2109.0 | 2124.5 | 2133.0 | 2149.3 | 2142.3 | 2149.9 | 2142.3 | 2138.1 |
| 52.5° | 2255.3 | 2258.2 | 2290.1 | 2312.2 | 2333.7 | 2343.5 | 2353.3 | 2350.0 | 2350.6 | 2350.0 | 2345.9 |
| 55°   | 2432.6 | 2439.2 | 2471.1 | 2501.2 | 2538.6 | 2566.3 | 2583.2 | 2581.4 | 2577.1 | 2572.8 | 2565.9 |
| 57.5° | 2632.4 | 2639.0 | 2675.5 | 2712.6 | 2755.3 | 2794.8 | 2828.9 | 2864.1 | 2877.7 | 2881.5 | 2866.0 |
| 60°   | 2902.6 | 2902.2 | 2950.9 | 2995.9 | 3056.8 | 3115.5 | 3190.5 | 3267.0 | 3354.7 | 3395.4 | 3341.5 |
| 62.5° | 3177.4 | 3188.6 | 3258.9 | 3338.8 | 3464.4 | 3586.9 | 3725.2 | 3861.2 | 4000.0 | 4113.1 | 3993.0 |
| 65°   | 3144.6 | 3187.7 | 3292.3 | 3473.0 | 3705.0 | 3980.8 | 4279.0 | 4594.7 | 4879.8 | 5075.8 | 4855.9 |
| 67.5° | 2725.3 | 2786.7 | 2893.1 | 3112.7 | 3403.0 | 3800.7 | 4301.5 | 4925.9 | 5651.3 | 6002.1 | 5567.5 |
| 70°   | 1975.4 | 2044.8 | 2156.4 | 2370.7 | 2658.3 | 3036.2 | 3580.3 | 4329.7 | 5290.3 | 5643.8 | 5165.0 |
| 72.5° | 983.0  | 1020.5 | 1089.5 | 1225.9 | 1443.6 | 1750.3 | 2243.6 | 2963.9 | 3813.8 | 4138.4 | 3700.8 |
| 75°   | 333.9  | 351.3  | 363.0  | 407.5  | 476.5  | 597.0  | 842.3  | 1295.9 | 1976.8 | 2369.9 | 1948.6 |
| 77.5° | 192.8  | 193.2  | 201.1  | 209.1  | 220.9  | 234.1  | 266.8  | 350.2  | 606.0  | 860.6  | 627.0  |
| 80°   | 124.8  | 124.2  | 130.9  | 136.9  | 144.9  | 151.5  | 153.4  | 162.2  | 187.2  | 221.8  | 198.5  |
| 82.5° | 64.7   | 72.6   | 87.2   | 95.2   | 110.3  | 113.0  | 109.3  | 106.0  | 112.1  | 116.4  | 119.1  |
| 85°   | 35.6   | 30.9   | 46.4   | 60.0   | 66.6   | 67.5   | 67.5   | 63.8   | 66.1   | 64.7   | 70.4   |
| 87.5° | 16.4   | 15.0   | 18.2   | 29.5   | 31.4   | 26.8   | 28.2   | 24.8   | 17.8   | 17.4   | 19.6   |
| 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):**

|       | 55°    | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1016.3 | 1016.3 | 1016.3 | 1016.3 | 1016.3 | 1016.3 | 1016.3 | 1016.3 |
| 2.5°  | 1011.6 | 1012.1 | 1012.1 | 1013.5 | 1013.9 | 1014.9 | 1015.8 | 1016.3 |
| 5°    | 1003.6 | 1005.0 | 1004.1 | 1005.5 | 1005.5 | 1006.5 | 1006.5 | 1007.0 |
| 7.5°  | 992.0  | 993.2  | 993.2  | 993.2  | 992.8  | 994.3  | 994.3  | 994.3  |
| 10°   | 979.7  | 980.6  | 980.2  | 979.3  | 978.3  | 979.7  | 979.3  | 978.8  |
| 12.5° | 976.0  | 973.6  | 971.8  | 970.8  | 968.9  | 969.3  | 968.0  | 968.0  |
| 15°   | 978.3  | 974.0  | 970.8  | 969.3  | 967.5  | 966.6  | 965.7  | 966.1  |
| 17.5° | 984.4  | 979.3  | 975.0  | 972.7  | 970.3  | 968.9  | 967.1  | 967.5  |
| 20°   | 995.3  | 989.2  | 983.0  | 978.3  | 974.0  | 971.8  | 970.3  | 969.9  |
| 22.5° | 1011.2 | 1002.2 | 993.2  | 986.3  | 980.6  | 977.4  | 976.0  | 975.0  |
| 25°   | 1029.4 | 1019.6 | 1009.2 | 1001.3 | 995.7  | 991.4  | 988.6  | 988.6  |
| 27.5° | 1052.3 | 1044.4 | 1035.0 | 1025.7 | 1020.5 | 1016.3 | 1014.5 | 1013.5 |
| 30°   | 1090.9 | 1083.5 | 1075.8 | 1066.9 | 1060.4 | 1056.2 | 1052.9 | 1050.1 |
| 32.5° | 1140.1 | 1134.0 | 1127.9 | 1121.3 | 1115.2 | 1109.6 | 1104.5 | 1102.1 |
| 35°   | 1209.5 | 1204.8 | 1200.6 | 1193.1 | 1190.8 | 1187.4 | 1184.7 | 1182.3 |
| 37.5° | 1305.2 | 1303.4 | 1303.4 | 1295.4 | 1293.5 | 1292.1 | 1289.3 | 1289.7 |
| 40°   | 1430.9 | 1432.7 | 1430.4 | 1427.6 | 1426.2 | 1422.4 | 1422.4 | 1425.8 |
| 42.5° | 1579.6 | 1581.0 | 1586.1 | 1581.4 | 1586.6 | 1581.8 | 1579.2 | 1581.4 |
| 45°   | 1752.2 | 1757.3 | 1767.6 | 1762.9 | 1766.1 | 1758.2 | 1748.3 | 1748.9 |
| 47.5° | 1945.8 | 1950.5 | 1954.7 | 1951.5 | 1951.9 | 1938.8 | 1925.7 | 1922.4 |
| 50°   | 2147.1 | 2148.9 | 2151.2 | 2146.6 | 2147.5 | 2133.0 | 2118.0 | 2118.4 |
| 52.5° | 2345.9 | 2354.7 | 2364.2 | 2351.5 | 2348.7 | 2332.2 | 2311.2 | 2302.7 |
| 55°   | 2573.4 | 2586.0 | 2575.2 | 2553.2 | 2531.1 | 2509.1 | 2481.4 | 2476.7 |
| 57.5° | 2853.9 | 2832.2 | 2798.4 | 2756.7 | 2726.2 | 2695.3 | 2667.1 | 2655.4 |
| 60°   | 3244.0 | 3162.8 | 3101.9 | 3040.0 | 3001.1 | 2963.1 | 2926.1 | 2920.4 |
| 62.5° | 3795.5 | 3655.3 | 3533.9 | 3405.8 | 3301.3 | 3219.7 | 3154.5 | 3136.2 |
| 65°   | 4486.8 | 4155.2 | 3867.8 | 3599.5 | 3366.4 | 3190.5 | 3079.8 | 3031.1 |
| 67.5° | 4784.1 | 4129.5 | 3636.5 | 3255.7 | 2950.9 | 2737.9 | 2618.4 | 2558.9 |
| 70°   | 4204.0 | 3424.5 | 2888.5 | 2507.2 | 2229.6 | 2002.6 | 1894.2 | 1830.4 |
| 72.5° | 2892.2 | 2178.4 | 1722.6 | 1406.0 | 1184.2 | 994.3  | 919.2  | 913.6  |
| 75°   | 1298.6 | 860.1  | 592.8  | 456.8  | 384.6  | 334.5  | 318.9  | 307.2  |
| 77.5° | 363.5  | 268.8  | 239.6  | 224.2  | 209.1  | 191.9  | 185.3  | 186.7  |
| 80°   | 176.8  | 166.9  | 160.4  | 150.6  | 136.9  | 122.4  | 115.9  | 118.6  |
| 82.5° | 117.2  | 115.9  | 120.0  | 113.0  | 93.3   | 79.2   | 66.6   | 60.9   |
| 85°   | 71.2   | 72.2   | 73.6   | 74.1   | 62.9   | 44.0   | 30.0   | 33.8   |
| 87.5° | 28.2   | 32.3   | 35.2   | 36.6   | 34.2   | 21.1   | 16.9   | 17.4   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)