

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: P200062

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

Issue Date: 3/3/2020

### Test Information

Test Method: LM-79-08  
Report Number: P200062  
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-800  
Description: GALLEON PEDESTRIAN LUMINAIRE  
(2) 70 CRI, 4000K, 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: 10786 lumens  
Efficiency: N/A  
Efficacy: 125.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type V - Short - Full Cutoff  
BUG Rating: B4 - 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

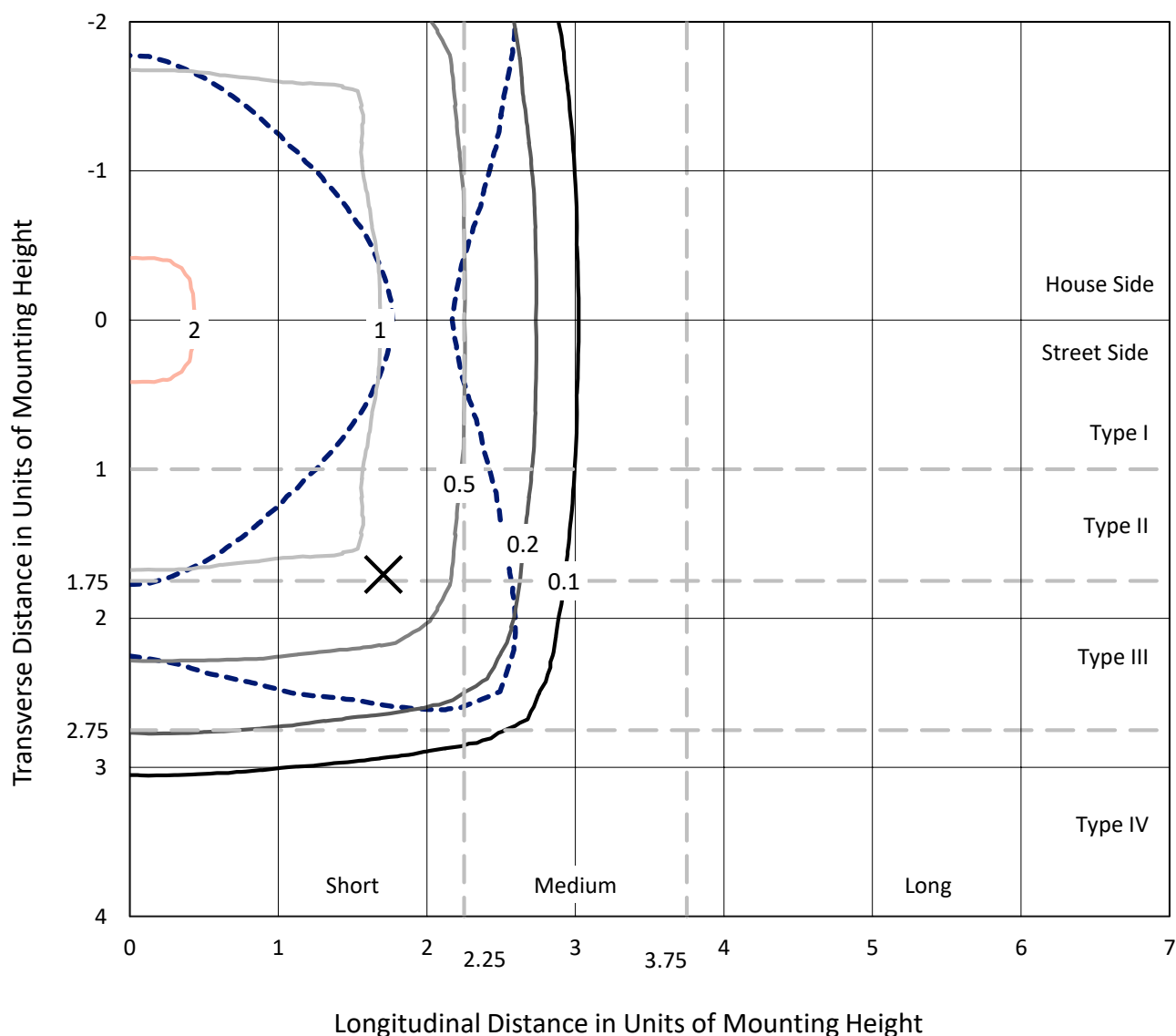


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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 --- 1/2 Max cd

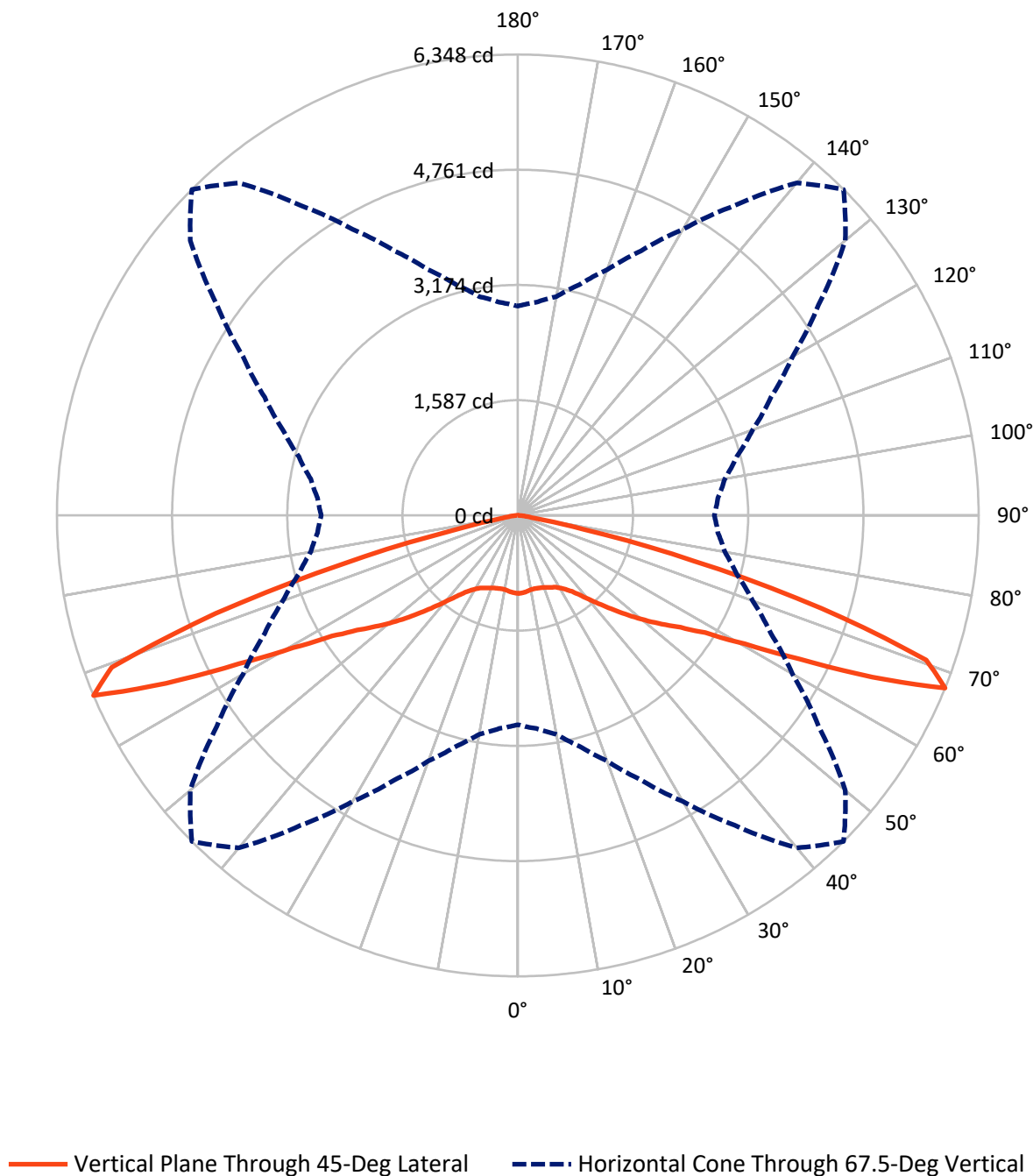


Based on 20 foot mounting height. Maximum calculated value = 2.7 fc  
 Type V - Short - Full Cutoff

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## Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 5393.0   | 0.0    | 5393.0  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 5393.0   | 0.0    | 5393.0  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 10786.0  | 0.0    | 10786.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 100.6   | 0.9       |
| 10°-20°   | 291.9   | 2.7       |
| 20°-30°   | 496.3   | 4.6       |
| 30°-40°   | 811.3   | 7.5       |
| 40°-50°   | 1448.2  | 13.4      |
| 50°-60°   | 2441.8  | 22.6      |
| 60°-70°   | 3789.3  | 35.1      |
| 70°-80°   | 1331.4  | 12.3      |
| 80°-90°   | 75.2    | 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°    | 10786.0 | 100.0     |
| 0°-180°   | 10786.0 | 100.0     |

**Coefficient of Utilization**



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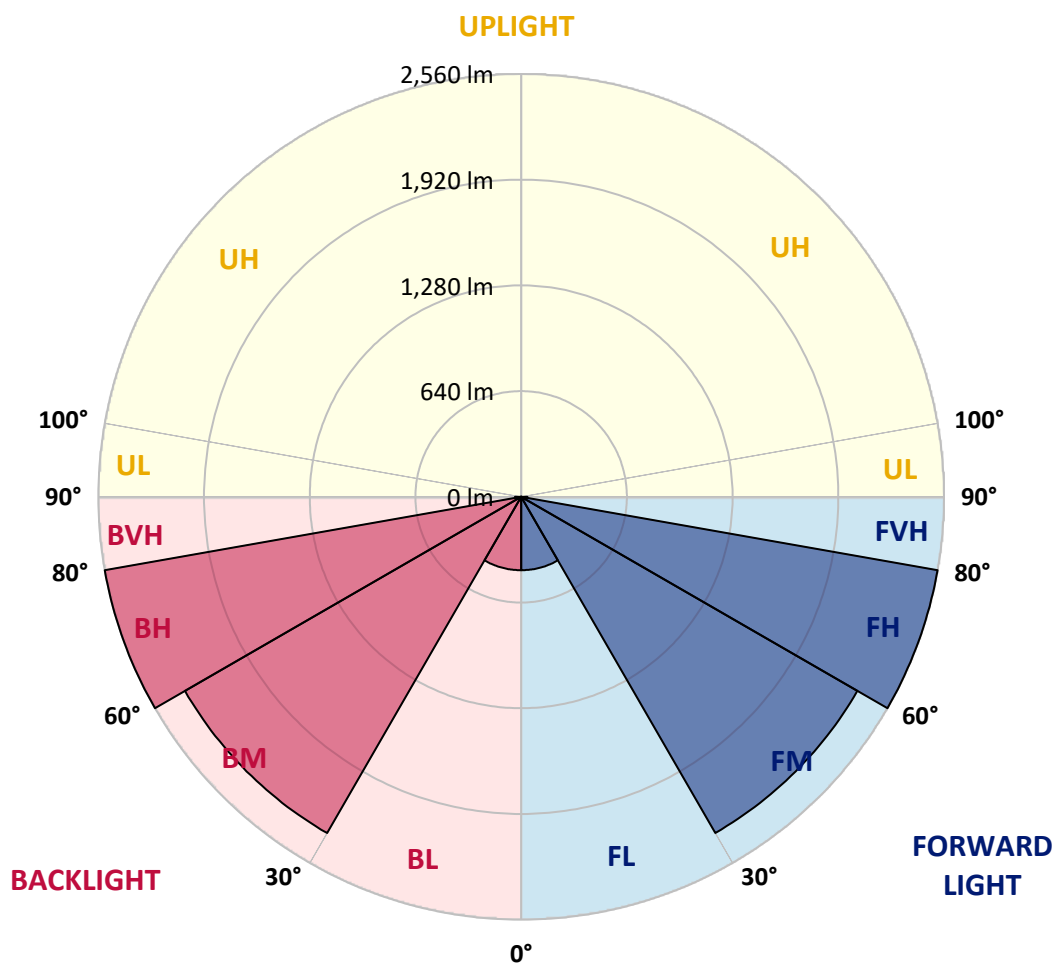
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 444.4  | 4.1       |                         |      |         |
| FM   | (30°-60°)   | 2350.6 | 21.8      |                         |      |         |
| FH   | (60°-80°)   | 2560.3 | 23.7      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 37.6   | 0.3       |                         |      | G1/100  |
| BL   | (0°-30°)    | 444.4  | 4.1       | B1/500                  |      |         |
| BM   | (30°-60°)   | 2350.6 | 21.8      | B2/2500                 |      |         |
| BH   | (60°-80°)   | 2560.3 | 23.7      | B4/5000                 |      | G2/5000 |
| BVH  | (80°-90°)   | 37.6   | 0.3       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B4-U0-G2**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1074.9 | 1074.9 | 1074.9 | 1074.9 | 1074.9 | 1074.9 | 1074.9 | 1074.9 | 1074.9 | 1074.9 | 1074.9 |
| 2.5°  | 1070.9 | 1071.8 | 1071.8 | 1071.8 | 1071.4 | 1071.4 | 1070.4 | 1071.4 | 1070.9 | 1069.4 | 1069.9 |
| 5°    | 1061.9 | 1062.9 | 1062.9 | 1062.4 | 1064.0 | 1063.5 | 1061.9 | 1062.9 | 1062.4 | 1061.5 | 1061.9 |
| 7.5°  | 1049.0 | 1050.6 | 1050.6 | 1050.1 | 1051.6 | 1051.1 | 1050.1 | 1050.6 | 1050.6 | 1049.0 | 1049.0 |
| 10°   | 1034.7 | 1035.6 | 1035.6 | 1035.2 | 1037.7 | 1037.7 | 1037.2 | 1038.7 | 1039.1 | 1037.7 | 1036.7 |
| 12.5° | 1021.3 | 1022.7 | 1022.7 | 1024.8 | 1027.2 | 1028.3 | 1030.7 | 1032.7 | 1034.7 | 1034.2 | 1032.3 |
| 15°   | 1013.3 | 1014.4 | 1016.3 | 1018.9 | 1022.7 | 1026.2 | 1030.2 | 1034.7 | 1038.7 | 1039.6 | 1036.7 |
| 17.5° | 1008.4 | 1009.9 | 1012.8 | 1016.3 | 1021.8 | 1027.8 | 1033.7 | 1039.6 | 1045.1 | 1047.1 | 1043.6 |
| 20°   | 1006.9 | 1007.9 | 1010.9 | 1016.8 | 1024.3 | 1033.2 | 1041.7 | 1048.6 | 1056.0 | 1058.5 | 1056.0 |
| 22.5° | 1009.9 | 1011.9 | 1015.4 | 1022.3 | 1032.3 | 1043.6 | 1053.5 | 1062.9 | 1072.4 | 1076.9 | 1073.4 |
| 25°   | 1023.3 | 1025.3 | 1029.7 | 1038.7 | 1049.5 | 1061.5 | 1072.9 | 1083.8 | 1092.2 | 1096.7 | 1094.3 |
| 27.5° | 1048.1 | 1050.6 | 1056.0 | 1065.0 | 1076.9 | 1089.7 | 1102.1 | 1111.1 | 1118.0 | 1119.5 | 1116.6 |
| 30°   | 1085.2 | 1090.8 | 1097.2 | 1107.1 | 1120.9 | 1131.9 | 1144.3 | 1152.3 | 1160.6 | 1160.6 | 1158.2 |
| 32.5° | 1143.4 | 1148.8 | 1155.7 | 1165.1 | 1176.1 | 1188.0 | 1198.9 | 1205.9 | 1214.8 | 1215.3 | 1209.3 |
| 35°   | 1230.1 | 1232.6 | 1238.6 | 1244.5 | 1254.4 | 1264.9 | 1274.3 | 1278.7 | 1286.2 | 1286.7 | 1281.2 |
| 37.5° | 1344.7 | 1345.2 | 1349.2 | 1351.1 | 1360.1 | 1371.5 | 1380.4 | 1383.4 | 1390.3 | 1389.4 | 1383.8 |
| 40°   | 1478.2 | 1480.6 | 1482.1 | 1485.1 | 1494.5 | 1505.4 | 1514.9 | 1516.3 | 1523.8 | 1522.3 | 1515.3 |
| 42.5° | 1632.4 | 1633.3 | 1641.8 | 1646.2 | 1655.2 | 1660.7 | 1672.5 | 1674.1 | 1683.0 | 1679.0 | 1671.1 |
| 45°   | 1805.5 | 1814.4 | 1822.4 | 1831.3 | 1840.7 | 1847.1 | 1856.6 | 1854.6 | 1860.5 | 1854.6 | 1850.1 |
| 47.5° | 1987.5 | 1994.0 | 2011.8 | 2025.7 | 2041.1 | 2046.6 | 2059.9 | 2054.0 | 2059.9 | 2051.5 | 2050.0 |
| 50°   | 2187.9 | 2199.3 | 2214.7 | 2230.5 | 2246.9 | 2255.9 | 2273.2 | 2265.8 | 2273.7 | 2265.8 | 2261.3 |
| 52.5° | 2385.3 | 2388.3 | 2422.0 | 2445.4 | 2468.2 | 2478.6 | 2489.0 | 2485.6 | 2486.1 | 2485.6 | 2481.1 |
| 55°   | 2572.8 | 2579.8 | 2613.5 | 2645.2 | 2684.9 | 2714.2 | 2732.1 | 2730.1 | 2725.7 | 2721.2 | 2713.7 |
| 57.5° | 2784.2 | 2791.1 | 2829.8 | 2869.0 | 2914.1 | 2955.8 | 2991.9 | 3029.2 | 3043.6 | 3047.6 | 3031.2 |
| 60°   | 3069.9 | 3069.4 | 3120.9 | 3168.6 | 3233.0 | 3295.0 | 3374.4 | 3455.2 | 3548.0 | 3591.2 | 3534.1 |
| 62.5° | 3360.5 | 3372.5 | 3446.8 | 3531.1 | 3664.1 | 3793.5 | 3939.9 | 4083.7 | 4230.5 | 4350.1 | 4223.0 |
| 65°   | 3325.8 | 3371.4 | 3482.0 | 3673.0 | 3918.5 | 4210.2 | 4525.6 | 4859.5 | 5161.1 | 5368.4 | 5135.7 |
| 67.5° | 2882.4 | 2947.3 | 3060.0 | 3292.1 | 3599.2 | 4019.7 | 4549.5 | 5209.7 | 5977.0 | 6348.0 | 5888.2 |
| 70°   | 2089.3 | 2162.6 | 2280.7 | 2507.4 | 2811.4 | 3211.2 | 3786.6 | 4579.2 | 5595.0 | 5969.1 | 5462.7 |
| 72.5° | 1039.6 | 1079.3 | 1152.3 | 1296.6 | 1526.8 | 1851.1 | 2372.9 | 3134.8 | 4033.6 | 4376.9 | 3914.1 |
| 75°   | 353.1  | 371.5  | 383.9  | 431.1  | 503.9  | 631.5  | 890.9  | 1370.4 | 2090.7 | 2506.3 | 2060.9 |
| 77.5° | 203.9  | 204.4  | 212.8  | 221.3  | 233.6  | 247.6  | 282.2  | 370.5  | 640.9  | 910.2  | 663.2  |
| 80°   | 132.0  | 131.4  | 138.4  | 144.8  | 153.2  | 160.2  | 162.2  | 171.7  | 197.9  | 234.7  | 209.8  |
| 82.5° | 68.4   | 76.9   | 92.3   | 100.7  | 116.5  | 119.6  | 115.6  | 112.1  | 118.6  | 123.1  | 126.0  |
| 85°   | 37.7   | 32.7   | 49.1   | 63.5   | 70.5   | 71.4   | 71.4   | 67.4   | 70.0   | 68.4   | 74.4   |
| 87.5° | 17.4   | 15.9   | 19.3   | 31.2   | 33.2   | 28.2   | 29.8   | 26.3   | 18.8   | 18.3   | 20.9   |
| 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°    | 1074.9 | 1074.9 | 1074.9 | 1074.9 | 1074.9 | 1074.9 | 1074.9 | 1074.9 |
| 2.5°  | 1069.9 | 1070.4 | 1070.4 | 1071.8 | 1072.4 | 1073.4 | 1074.4 | 1074.9 |
| 5°    | 1061.5 | 1062.9 | 1061.9 | 1063.5 | 1063.5 | 1064.5 | 1064.5 | 1065.0 |
| 7.5°  | 1049.0 | 1050.6 | 1050.6 | 1050.6 | 1050.1 | 1051.6 | 1051.6 | 1051.6 |
| 10°   | 1036.1 | 1037.2 | 1036.7 | 1035.6 | 1034.7 | 1036.1 | 1035.6 | 1035.2 |
| 12.5° | 1032.3 | 1029.7 | 1027.8 | 1026.7 | 1024.8 | 1025.3 | 1023.8 | 1023.8 |
| 15°   | 1034.7 | 1030.2 | 1026.7 | 1025.3 | 1023.3 | 1022.3 | 1021.3 | 1021.8 |
| 17.5° | 1041.2 | 1035.6 | 1031.2 | 1028.8 | 1026.2 | 1024.8 | 1022.7 | 1023.3 |
| 20°   | 1052.5 | 1046.1 | 1039.6 | 1034.7 | 1030.2 | 1027.8 | 1026.2 | 1025.8 |
| 22.5° | 1069.4 | 1060.0 | 1050.6 | 1043.1 | 1037.2 | 1033.7 | 1032.3 | 1031.2 |
| 25°   | 1088.7 | 1078.3 | 1067.4 | 1059.0 | 1053.0 | 1048.6 | 1045.6 | 1045.6 |
| 27.5° | 1113.1 | 1104.6 | 1094.7 | 1084.8 | 1079.3 | 1074.9 | 1072.9 | 1071.8 |
| 30°   | 1153.8 | 1145.8 | 1137.8 | 1128.4 | 1121.5 | 1117.1 | 1113.6 | 1110.6 |
| 32.5° | 1205.9 | 1199.4 | 1193.0 | 1186.0 | 1179.6 | 1173.5 | 1168.1 | 1165.7 |
| 35°   | 1279.2 | 1274.3 | 1269.8 | 1261.9 | 1259.4 | 1255.9 | 1252.9 | 1250.5 |
| 37.5° | 1380.4 | 1378.4 | 1378.4 | 1370.0 | 1368.0 | 1366.6 | 1363.6 | 1364.0 |
| 40°   | 1513.4 | 1515.3 | 1512.8 | 1509.9 | 1508.3 | 1504.5 | 1504.5 | 1507.9 |
| 42.5° | 1670.6 | 1672.1 | 1677.5 | 1672.5 | 1678.0 | 1673.0 | 1670.1 | 1672.5 |
| 45°   | 1853.1 | 1858.6 | 1869.4 | 1864.5 | 1868.0 | 1859.5 | 1849.2 | 1849.7 |
| 47.5° | 2058.0 | 2063.0 | 2067.4 | 2063.9 | 2064.4 | 2050.5 | 2036.7 | 2033.2 |
| 50°   | 2270.7 | 2272.8 | 2275.2 | 2270.2 | 2271.3 | 2255.9 | 2240.1 | 2240.5 |
| 52.5° | 2481.1 | 2490.5 | 2500.4 | 2487.0 | 2484.0 | 2466.7 | 2444.3 | 2435.4 |
| 55°   | 2721.7 | 2735.1 | 2723.6 | 2700.3 | 2677.0 | 2653.7 | 2624.4 | 2619.5 |
| 57.5° | 3018.2 | 2995.4 | 2959.7 | 2915.6 | 2883.4 | 2850.7 | 2820.9 | 2808.4 |
| 60°   | 3431.0 | 3345.2 | 3280.7 | 3215.1 | 3174.0 | 3133.8 | 3094.6 | 3088.7 |
| 62.5° | 4014.3 | 3865.9 | 3737.5 | 3602.1 | 3491.4 | 3405.2 | 3336.3 | 3316.9 |
| 65°   | 4745.4 | 4394.7 | 4090.7 | 3806.9 | 3560.4 | 3374.4 | 3257.4 | 3205.7 |
| 67.5° | 5059.9 | 4367.4 | 3846.1 | 3443.4 | 3120.9 | 2895.8 | 2769.2 | 2706.3 |
| 70°   | 4446.3 | 3622.0 | 3054.9 | 2651.7 | 2358.1 | 2118.0 | 2003.4 | 1935.9 |
| 72.5° | 3058.9 | 2304.0 | 1821.9 | 1487.1 | 1252.4 | 1051.6 | 972.2  | 966.3  |
| 75°   | 1373.5 | 909.7  | 627.0  | 483.1  | 406.7  | 353.6  | 337.3  | 324.9  |
| 77.5° | 384.4  | 284.2  | 253.5  | 237.1  | 221.3  | 202.9  | 195.9  | 197.4  |
| 80°   | 187.0  | 176.6  | 169.6  | 159.2  | 144.8  | 129.5  | 122.5  | 125.5  |
| 82.5° | 124.0  | 122.5  | 126.9  | 119.6  | 98.7   | 83.8   | 70.5   | 64.4   |
| 85°   | 75.4   | 76.4   | 77.8   | 78.4   | 66.5   | 46.6   | 31.7   | 35.7   |
| 87.5° | 29.8   | 34.3   | 37.2   | 38.7   | 36.2   | 22.3   | 17.9   | 18.3   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)