

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: P200064

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

Issue Date: 3/3/2020

### Test Information

Test Method: LM-79-08  
Report Number: P200064  
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  
Description: GALLEON PEDESTRIAN LUMINAIRE  
(2) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V  
MEDIUM OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 13349.5 lumens  
Efficiency: N/A  
Efficacy: 118.1 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): 113  
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

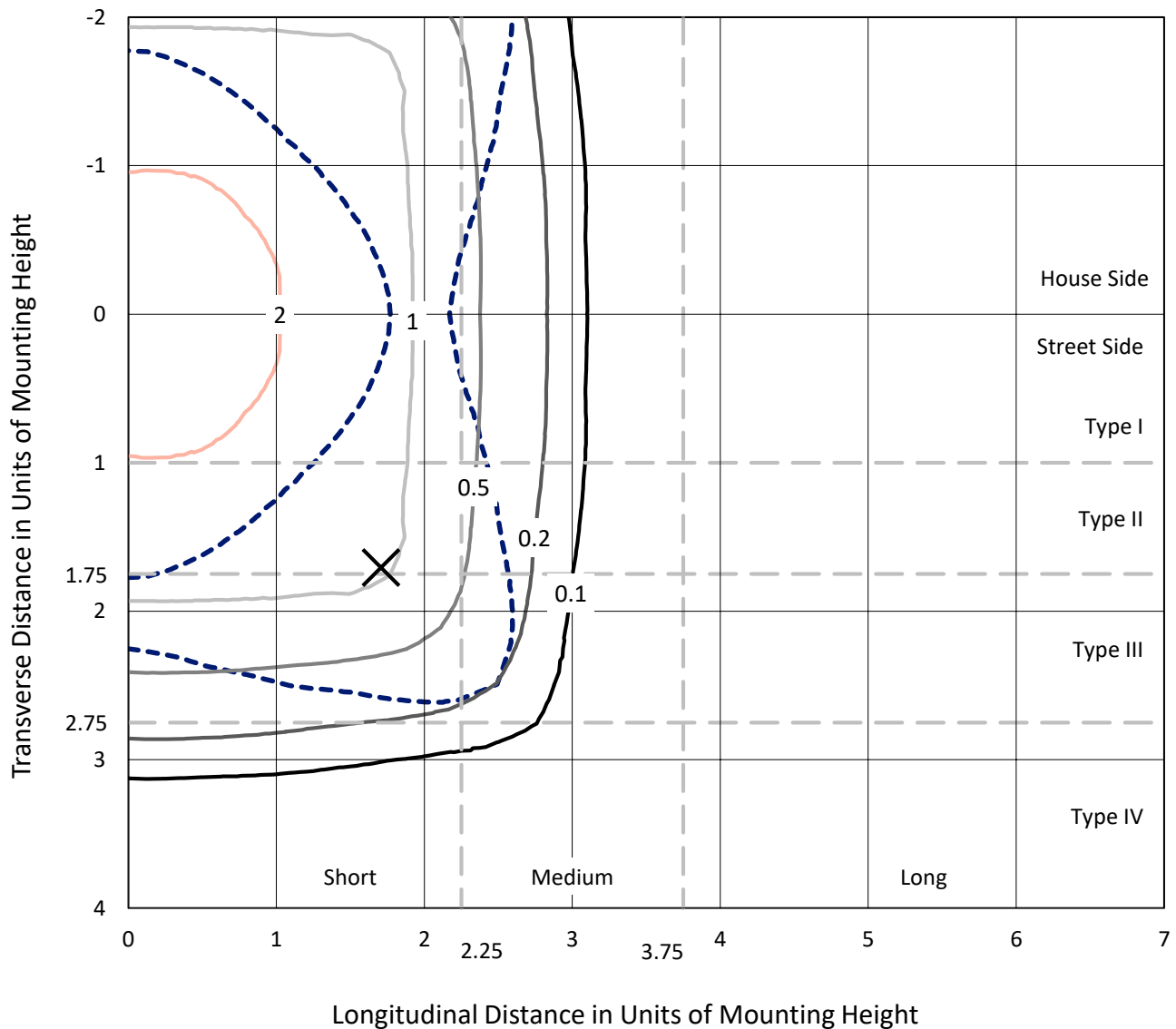


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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 --- 1/2 Max cd

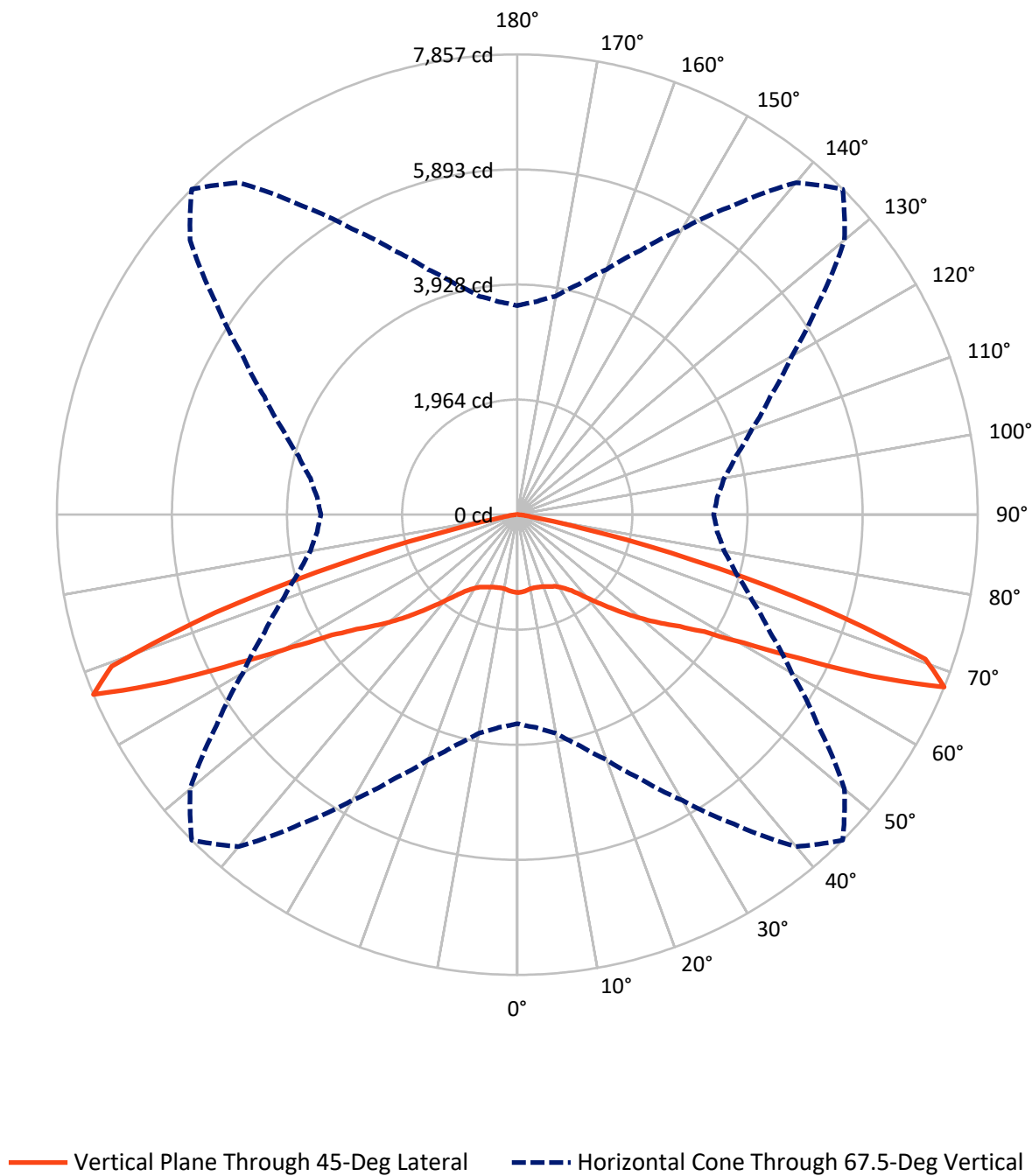


Based on 20 foot mounting height. Maximum calculated value = 3.3 fc  
 Type V - Short - Full Cutoff

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## Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 6674.8   | 0.0    | 6674.8  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 6674.8   | 0.0    | 6674.8  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 13349.5  | 0.0    | 13349.5 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 124.5   | 0.9       |
| 10°-20°   | 361.3   | 2.7       |
| 20°-30°   | 614.2   | 4.6       |
| 30°-40°   | 1004.1  | 7.5       |
| 40°-50°   | 1792.4  | 13.4      |
| 50°-60°   | 3022.1  | 22.6      |
| 60°-70°   | 4689.9  | 35.1      |
| 70°-80°   | 1647.8  | 12.3      |
| 80°-90°   | 93.1    | 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°    | 13349.5 | 100.0     |
| 0°-180°   | 13349.5 | 100.0     |

**Coefficient of Utilization**



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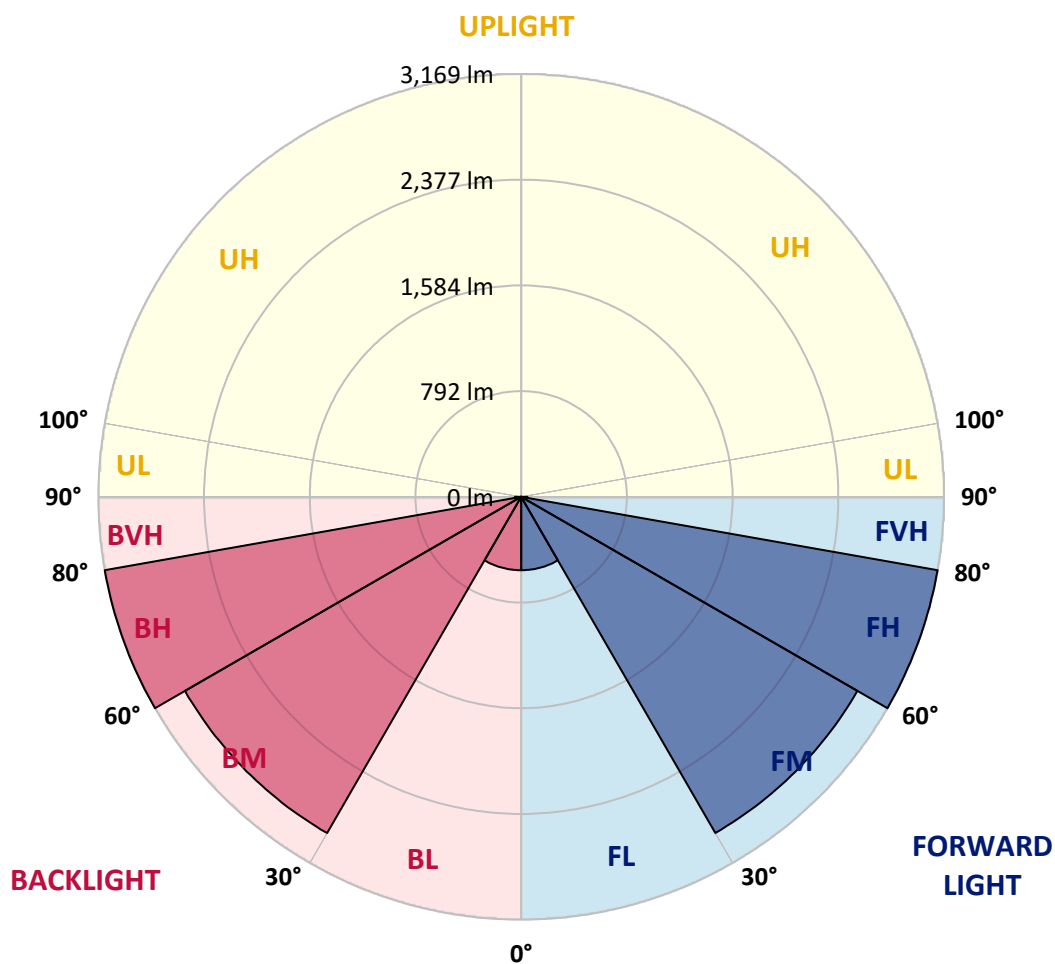
CATALOG NUMBER: GAP-AF-02-LED-U-5MQ

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

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 550.0  | 4.1       |                         |      |         |
| FM   | (30°-60°)   | 2909.3 | 21.8      |                         |      |         |
| FH   | (60°-80°)   | 3168.9 | 23.7      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 46.6   | 0.3       |                         |      | G1/100  |
| BL   | (0°-30°)    | 550.0  | 4.1       | B2/1000                 |      |         |
| BM   | (30°-60°)   | 2909.3 | 21.8      | B3/5000                 |      |         |
| BH   | (60°-80°)   | 3168.9 | 23.7      | B4/5000                 |      | G2/5000 |
| BVH  | (80°-90°)   | 46.6   | 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°    | 1330.3 | 1330.3 | 1330.3 | 1330.3 | 1330.3 | 1330.3 | 1330.3 | 1330.3 | 1330.3 | 1330.3 | 1330.3 |
| 2.5°  | 1325.4 | 1326.7 | 1326.7 | 1326.7 | 1326.1 | 1326.1 | 1324.8 | 1326.1 | 1325.4 | 1323.6 | 1324.2 |
| 5°    | 1314.4 | 1315.6 | 1315.6 | 1315.0 | 1316.8 | 1316.2 | 1314.4 | 1315.6 | 1315.0 | 1313.8 | 1314.4 |
| 7.5°  | 1298.4 | 1300.3 | 1300.3 | 1299.7 | 1301.5 | 1300.9 | 1299.7 | 1300.3 | 1300.3 | 1298.4 | 1298.4 |
| 10°   | 1280.6 | 1281.9 | 1281.9 | 1281.2 | 1284.3 | 1284.3 | 1283.7 | 1285.5 | 1286.2 | 1284.3 | 1283.1 |
| 12.5° | 1264.1 | 1265.9 | 1265.9 | 1268.4 | 1271.4 | 1272.7 | 1275.7 | 1278.2 | 1280.6 | 1280.0 | 1277.6 |
| 15°   | 1254.2 | 1255.5 | 1257.9 | 1261.0 | 1265.9 | 1270.2 | 1275.1 | 1280.6 | 1285.5 | 1286.8 | 1283.1 |
| 17.5° | 1248.1 | 1249.9 | 1253.6 | 1257.9 | 1264.7 | 1272.0 | 1279.4 | 1286.8 | 1293.5 | 1296.0 | 1291.7 |
| 20°   | 1246.3 | 1247.5 | 1251.2 | 1258.5 | 1267.7 | 1278.8 | 1289.2 | 1297.8 | 1307.0 | 1310.1 | 1307.0 |
| 22.5° | 1249.9 | 1252.4 | 1256.7 | 1265.3 | 1277.6 | 1291.7 | 1304.0 | 1315.6 | 1327.3 | 1332.8 | 1328.5 |
| 25°   | 1266.5 | 1269.0 | 1274.5 | 1285.5 | 1299.0 | 1313.8 | 1327.9 | 1341.4 | 1351.8 | 1357.4 | 1354.3 |
| 27.5° | 1297.2 | 1300.3 | 1307.0 | 1318.1 | 1332.8 | 1348.8 | 1364.1 | 1375.2 | 1383.7 | 1385.6 | 1381.9 |
| 30°   | 1343.2 | 1350.0 | 1358.0 | 1370.2 | 1387.4 | 1400.9 | 1416.3 | 1426.1 | 1436.5 | 1436.5 | 1433.5 |
| 32.5° | 1415.0 | 1421.8 | 1430.4 | 1442.1 | 1455.6 | 1470.3 | 1483.8 | 1492.4 | 1503.4 | 1504.0 | 1496.7 |
| 35°   | 1522.5 | 1525.5 | 1532.9 | 1540.3 | 1552.5 | 1565.4 | 1577.1 | 1582.6 | 1591.8 | 1592.4 | 1585.7 |
| 37.5° | 1664.3 | 1665.0 | 1669.9 | 1672.3 | 1683.4 | 1697.5 | 1708.5 | 1712.2 | 1720.8 | 1719.6 | 1712.8 |
| 40°   | 1829.4 | 1832.5 | 1834.4 | 1838.0 | 1849.7 | 1863.2 | 1874.9 | 1876.7 | 1885.9 | 1884.1 | 1875.5 |
| 42.5° | 2020.3 | 2021.6 | 2032.0 | 2037.5 | 2048.6 | 2055.3 | 2070.0 | 2071.9 | 2083.0 | 2078.0 | 2068.2 |
| 45°   | 2234.6 | 2245.7 | 2255.5 | 2266.6 | 2278.2 | 2286.2 | 2297.9 | 2295.4 | 2302.8 | 2295.4 | 2289.9 |
| 47.5° | 2459.9 | 2467.9 | 2490.0 | 2507.2 | 2526.2 | 2532.9 | 2549.6 | 2542.1 | 2549.6 | 2539.1 | 2537.2 |
| 50°   | 2708.0 | 2722.1 | 2741.1 | 2760.7 | 2781.0 | 2792.0 | 2813.5 | 2804.3 | 2814.1 | 2804.3 | 2798.8 |
| 52.5° | 2952.2 | 2955.9 | 2997.7 | 3026.6 | 3054.8 | 3067.7 | 3080.6 | 3076.3 | 3076.9 | 3076.3 | 3070.8 |
| 55°   | 3184.3 | 3192.9 | 3234.7 | 3274.0 | 3323.1 | 3359.3 | 3381.4 | 3378.9 | 3373.4 | 3367.9 | 3358.7 |
| 57.5° | 3445.8 | 3454.4 | 3502.4 | 3550.9 | 3606.7 | 3658.3 | 3703.1 | 3749.1 | 3766.9 | 3771.8 | 3751.6 |
| 60°   | 3799.4 | 3798.8 | 3862.7 | 3921.6 | 4001.5 | 4078.2 | 4176.4 | 4276.4 | 4391.2 | 4444.7 | 4374.0 |
| 62.5° | 4159.2 | 4173.9 | 4266.0 | 4370.4 | 4534.9 | 4695.1 | 4876.3 | 5054.3 | 5236.0 | 5384.0 | 5226.8 |
| 65°   | 4116.3 | 4172.7 | 4309.6 | 4546.0 | 4849.8 | 5210.8 | 5601.3 | 6014.4 | 6387.7 | 6644.3 | 6356.4 |
| 67.5° | 3567.4 | 3647.8 | 3787.2 | 4074.5 | 4454.5 | 4975.1 | 5630.7 | 6447.9 | 7397.6 | 7856.8 | 7287.7 |
| 70°   | 2585.8 | 2676.7 | 2822.7 | 3103.3 | 3479.7 | 3974.5 | 4686.5 | 5667.6 | 6924.9 | 7387.8 | 6761.0 |
| 72.5° | 1286.8 | 1335.9 | 1426.1 | 1604.7 | 1889.6 | 2291.1 | 2936.9 | 3879.8 | 4992.3 | 5417.1 | 4844.3 |
| 75°   | 437.1  | 459.8  | 475.2  | 533.5  | 623.7  | 781.5  | 1102.5 | 1696.3 | 2587.7 | 3102.1 | 2550.8 |
| 77.5° | 252.4  | 253.0  | 263.4  | 273.8  | 289.2  | 306.4  | 349.3  | 458.6  | 793.2  | 1126.5 | 820.8  |
| 80°   | 163.3  | 162.6  | 171.2  | 179.2  | 189.7  | 198.2  | 200.7  | 212.4  | 245.0  | 290.4  | 259.7  |
| 82.5° | 84.7   | 95.1   | 114.2  | 124.6  | 144.2  | 147.9  | 143.0  | 138.7  | 146.7  | 152.2  | 155.9  |
| 85°   | 46.6   | 40.5   | 60.8   | 78.6   | 87.2   | 88.4   | 88.4   | 83.5   | 86.5   | 84.7   | 92.1   |
| 87.5° | 21.5   | 19.6   | 23.9   | 38.7   | 41.1   | 35.0   | 36.8   | 32.5   | 23.3   | 22.7   | 25.8   |
| 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°    | 1330.3 | 1330.3 | 1330.3 | 1330.3 | 1330.3 | 1330.3 | 1330.3 | 1330.3 |
| 2.5°  | 1324.2 | 1324.8 | 1324.8 | 1326.7 | 1327.3 | 1328.5 | 1329.7 | 1330.3 |
| 5°    | 1313.8 | 1315.6 | 1314.4 | 1316.2 | 1316.2 | 1317.5 | 1317.5 | 1318.1 |
| 7.5°  | 1298.4 | 1300.3 | 1300.3 | 1300.3 | 1299.7 | 1301.5 | 1301.5 | 1301.5 |
| 10°   | 1282.5 | 1283.7 | 1283.1 | 1281.9 | 1280.6 | 1282.5 | 1281.9 | 1281.2 |
| 12.5° | 1277.6 | 1274.5 | 1272.0 | 1270.8 | 1268.4 | 1269.0 | 1267.1 | 1267.1 |
| 15°   | 1280.6 | 1275.1 | 1270.8 | 1269.0 | 1266.5 | 1265.3 | 1264.1 | 1264.7 |
| 17.5° | 1288.6 | 1281.9 | 1276.3 | 1273.3 | 1270.2 | 1268.4 | 1265.9 | 1266.5 |
| 20°   | 1302.7 | 1294.7 | 1286.8 | 1280.6 | 1275.1 | 1272.0 | 1270.2 | 1269.6 |
| 22.5° | 1323.6 | 1311.9 | 1300.3 | 1291.1 | 1283.7 | 1279.4 | 1277.6 | 1276.3 |
| 25°   | 1347.5 | 1334.6 | 1321.1 | 1310.7 | 1303.3 | 1297.8 | 1294.1 | 1294.1 |
| 27.5° | 1377.6 | 1367.2 | 1354.9 | 1342.6 | 1335.9 | 1330.3 | 1327.9 | 1326.7 |
| 30°   | 1427.9 | 1418.1 | 1408.3 | 1396.6 | 1388.0 | 1382.5 | 1378.2 | 1374.5 |
| 32.5° | 1492.4 | 1484.4 | 1476.4 | 1467.8 | 1459.9 | 1452.5 | 1445.7 | 1442.7 |
| 35°   | 1583.2 | 1577.1 | 1571.6 | 1561.7 | 1558.7 | 1554.4 | 1550.7 | 1547.6 |
| 37.5° | 1708.5 | 1706.1 | 1706.1 | 1695.6 | 1693.2 | 1691.3 | 1687.7 | 1688.3 |
| 40°   | 1873.0 | 1875.5 | 1872.4 | 1868.7 | 1866.9 | 1862.0 | 1862.0 | 1866.3 |
| 42.5° | 2067.6 | 2069.4 | 2076.2 | 2070.0 | 2076.8 | 2070.7 | 2067.0 | 2070.0 |
| 45°   | 2293.6 | 2300.3 | 2313.8 | 2307.7 | 2312.0 | 2301.5 | 2288.6 | 2289.3 |
| 47.5° | 2547.1 | 2553.3 | 2558.8 | 2554.5 | 2555.1 | 2537.8 | 2520.7 | 2516.4 |
| 50°   | 2810.5 | 2812.9 | 2816.0 | 2809.8 | 2811.1 | 2792.0 | 2772.4 | 2773.0 |
| 52.5° | 3070.8 | 3082.5 | 3094.7 | 3078.2 | 3074.5 | 3053.0 | 3025.4 | 3014.3 |
| 55°   | 3368.5 | 3385.0 | 3370.9 | 3342.1 | 3313.2 | 3284.4 | 3248.2 | 3242.0 |
| 57.5° | 3735.6 | 3707.4 | 3663.2 | 3608.6 | 3568.7 | 3528.2 | 3491.3 | 3476.0 |
| 60°   | 4246.4 | 4140.2 | 4060.4 | 3979.4 | 3928.3 | 3878.6 | 3830.1 | 3822.8 |
| 62.5° | 4968.4 | 4784.8 | 4625.8 | 4458.2 | 4321.3 | 4214.5 | 4129.1 | 4105.2 |
| 65°   | 5873.3 | 5439.2 | 5062.9 | 4711.7 | 4406.7 | 4176.4 | 4031.6 | 3967.7 |
| 67.5° | 6262.5 | 5405.5 | 4760.2 | 4261.7 | 3862.7 | 3584.0 | 3427.4 | 3349.4 |
| 70°   | 5503.1 | 4482.8 | 3781.0 | 3281.9 | 2918.5 | 2621.4 | 2479.5 | 2396.1 |
| 72.5° | 3785.9 | 2851.6 | 2254.9 | 1840.5 | 1550.1 | 1301.5 | 1203.3 | 1195.9 |
| 75°   | 1699.9 | 1125.9 | 776.0  | 597.9  | 503.4  | 437.7  | 417.5  | 402.1  |
| 77.5° | 475.8  | 351.8  | 313.7  | 293.5  | 273.8  | 251.1  | 242.5  | 244.4  |
| 80°   | 231.5  | 218.5  | 209.9  | 197.0  | 179.2  | 160.2  | 151.6  | 155.3  |
| 82.5° | 153.4  | 151.6  | 157.1  | 147.9  | 122.1  | 103.7  | 87.2   | 79.8   |
| 85°   | 93.3   | 94.5   | 96.4   | 97.0   | 82.2   | 57.7   | 39.3   | 44.2   |
| 87.5° | 36.8   | 42.4   | 46.0   | 47.9   | 44.8   | 27.6   | 22.1   | 22.7   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)