

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: P200384

Luminaire Tested: **GAP-AF-02-LED-U-5MQ-7060**

Issue Date: 3/3/2020

### Test Information

Test Method: LM-79-08  
Report Number: P200384  
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-7060  
Description: GALLEON PEDESTRIAN LUMINAIRE  
(2) 70 CRI, 5700K, 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: 13050 lumens  
Efficiency: N/A  
Efficacy: 115.5 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

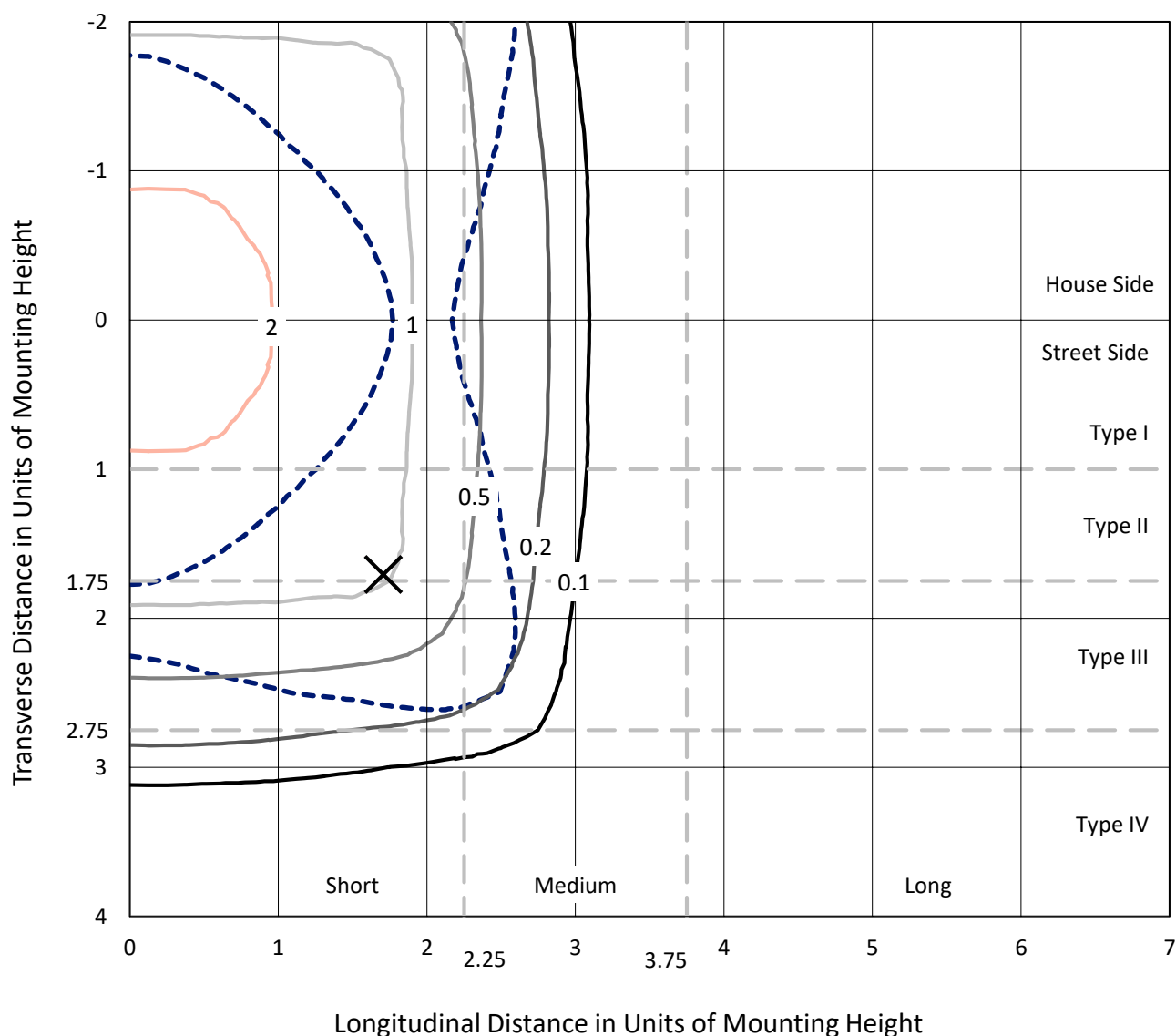


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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 --- 1/2 Max cd

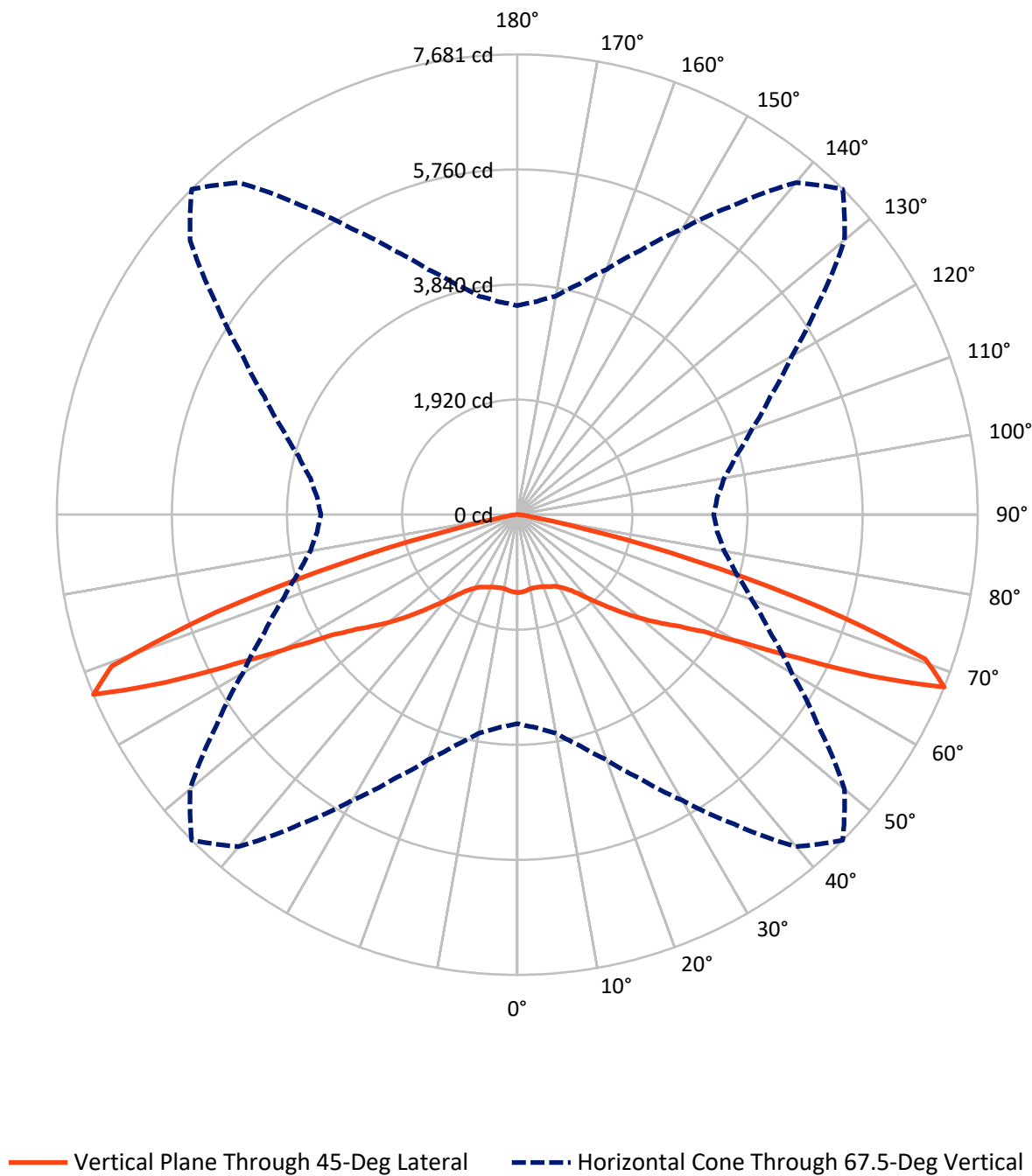


Based on 20 foot mounting height. Maximum calculated value = 3.3 fc  
 Type V - Short - Full Cutoff

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## Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 6525.0   | 0.0    | 6525.0  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 6525.0   | 0.0    | 6525.0  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 13050.0  | 0.0    | 13050.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 121.7   | 0.9       |
| 10°-20°   | 353.2   | 2.7       |
| 20°-30°   | 600.5   | 4.6       |
| 30°-40°   | 981.5   | 7.5       |
| 40°-50°   | 1752.2  | 13.4      |
| 50°-60°   | 2954.3  | 22.6      |
| 60°-70°   | 4584.7  | 35.1      |
| 70°-80°   | 1610.9  | 12.3      |
| 80°-90°   | 91.0    | 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°    | 13050.0 | 100.0     |
| 0°-180°   | 13050.0 | 100.0     |

**Coefficient of Utilization**



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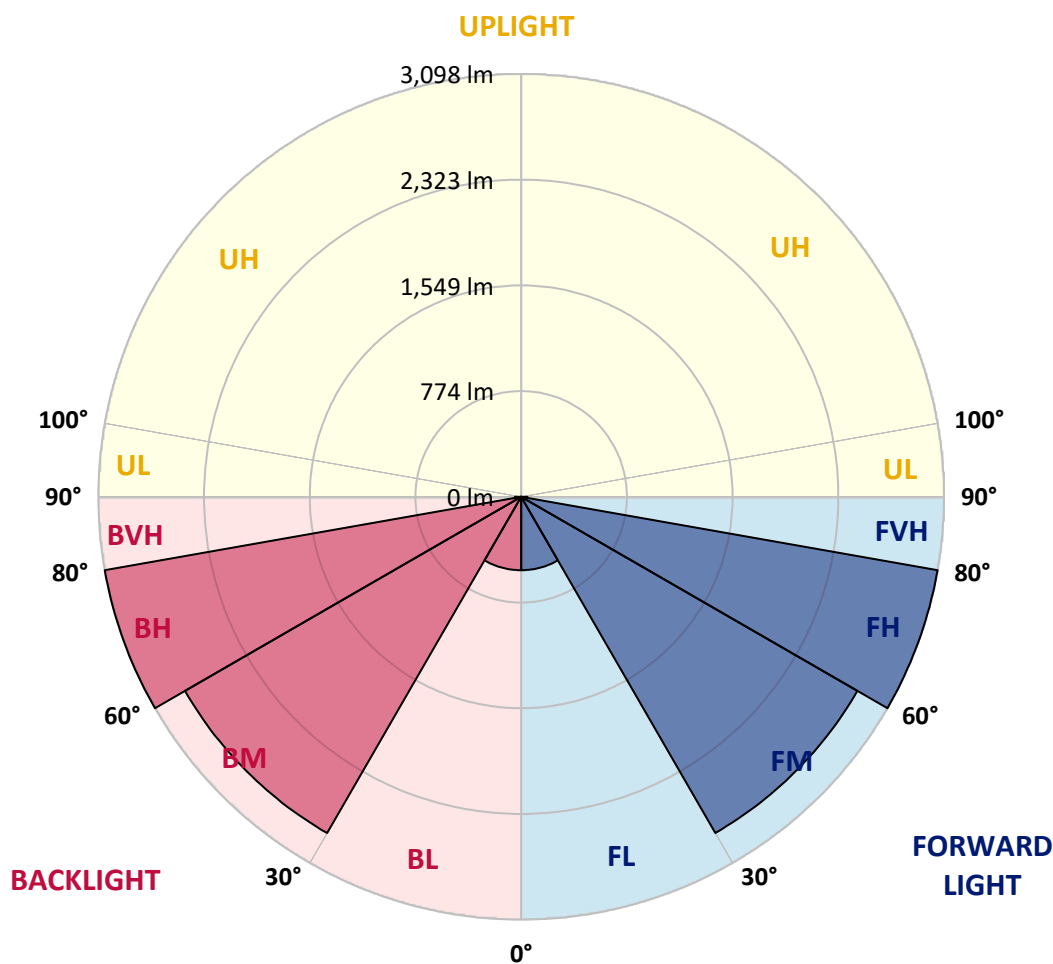
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 537.7  | 4.1       |                         |      |         |
| FM   | (30°-60°)   | 2844.0 | 21.8      |                         |      |         |
| FH   | (60°-80°)   | 3097.8 | 23.7      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 45.5   | 0.3       |                         |      | G1/100  |
| BL   | (0°-30°)    | 537.7  | 4.1       | B2/1000                 |      |         |
| BM   | (30°-60°)   | 2844.0 | 21.8      | B3/5000                 |      |         |
| BH   | (60°-80°)   | 3097.8 | 23.7      | B4/5000                 |      | G2/5000 |
| BVH  | (80°-90°)   | 45.5   | 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°    | 1300.5 | 1300.5 | 1300.5 | 1300.5 | 1300.5 | 1300.5 | 1300.5 | 1300.5 | 1300.5 | 1300.5 | 1300.5 |
| 2.5°  | 1295.7 | 1296.9 | 1296.9 | 1296.9 | 1296.3 | 1296.3 | 1295.1 | 1296.3 | 1295.7 | 1293.9 | 1294.5 |
| 5°    | 1284.9 | 1286.1 | 1286.1 | 1285.5 | 1287.3 | 1286.7 | 1284.9 | 1286.1 | 1285.5 | 1284.3 | 1284.9 |
| 7.5°  | 1269.3 | 1271.1 | 1271.1 | 1270.5 | 1272.3 | 1271.7 | 1270.5 | 1271.1 | 1271.1 | 1269.3 | 1269.3 |
| 10°   | 1251.9 | 1253.1 | 1253.1 | 1252.5 | 1255.5 | 1255.5 | 1254.9 | 1256.7 | 1257.3 | 1255.5 | 1254.3 |
| 12.5° | 1235.7 | 1237.5 | 1237.5 | 1239.9 | 1242.9 | 1244.1 | 1247.1 | 1249.5 | 1251.9 | 1251.3 | 1248.9 |
| 15°   | 1226.1 | 1227.3 | 1229.7 | 1232.7 | 1237.5 | 1241.7 | 1246.5 | 1251.9 | 1256.7 | 1257.9 | 1254.3 |
| 17.5° | 1220.1 | 1221.9 | 1225.5 | 1229.7 | 1236.3 | 1243.5 | 1250.7 | 1257.9 | 1264.5 | 1266.9 | 1262.7 |
| 20°   | 1218.3 | 1219.5 | 1223.1 | 1230.3 | 1239.3 | 1250.1 | 1260.3 | 1268.7 | 1277.7 | 1280.7 | 1277.7 |
| 22.5° | 1221.9 | 1224.3 | 1228.5 | 1236.9 | 1248.9 | 1262.7 | 1274.7 | 1286.1 | 1297.5 | 1302.9 | 1298.7 |
| 25°   | 1238.1 | 1240.5 | 1245.9 | 1256.7 | 1269.9 | 1284.3 | 1298.1 | 1311.3 | 1321.5 | 1326.9 | 1323.9 |
| 27.5° | 1268.1 | 1271.1 | 1277.7 | 1288.5 | 1302.9 | 1318.5 | 1333.5 | 1344.3 | 1352.7 | 1354.5 | 1350.9 |
| 30°   | 1313.1 | 1319.7 | 1327.5 | 1339.5 | 1356.3 | 1369.5 | 1384.5 | 1394.1 | 1404.3 | 1404.3 | 1401.3 |
| 32.5° | 1383.3 | 1389.9 | 1398.3 | 1409.7 | 1422.9 | 1437.3 | 1450.5 | 1458.9 | 1469.7 | 1470.3 | 1463.1 |
| 35°   | 1488.3 | 1491.3 | 1498.5 | 1505.7 | 1517.7 | 1530.3 | 1541.7 | 1547.1 | 1556.1 | 1556.7 | 1550.1 |
| 37.5° | 1627.0 | 1627.6 | 1632.4 | 1634.8 | 1645.6 | 1659.4 | 1670.2 | 1673.8 | 1682.2 | 1681.0 | 1674.4 |
| 40°   | 1788.4 | 1791.4 | 1793.2 | 1796.8 | 1808.2 | 1821.4 | 1832.8 | 1834.6 | 1843.6 | 1841.8 | 1833.4 |
| 42.5° | 1975.0 | 1976.2 | 1986.4 | 1991.8 | 2002.6 | 2009.2 | 2023.6 | 2025.4 | 2036.3 | 2031.4 | 2021.8 |
| 45°   | 2184.5 | 2195.3 | 2204.9 | 2215.7 | 2227.1 | 2234.9 | 2246.3 | 2243.9 | 2251.1 | 2243.9 | 2238.5 |
| 47.5° | 2404.7 | 2412.5 | 2434.1 | 2450.9 | 2469.5 | 2476.1 | 2492.4 | 2485.1 | 2492.4 | 2482.1 | 2480.3 |
| 50°   | 2647.2 | 2661.0 | 2679.6 | 2698.8 | 2718.6 | 2729.4 | 2750.4 | 2741.4 | 2751.0 | 2741.4 | 2736.0 |
| 52.5° | 2886.0 | 2889.6 | 2930.4 | 2958.7 | 2986.3 | 2998.9 | 3011.5 | 3007.3 | 3007.9 | 3007.3 | 3001.9 |
| 55°   | 3112.9 | 3121.3 | 3162.1 | 3200.5 | 3248.5 | 3283.9 | 3305.5 | 3303.1 | 3297.7 | 3292.3 | 3283.3 |
| 57.5° | 3368.5 | 3376.9 | 3423.8 | 3471.2 | 3525.8 | 3576.2 | 3620.0 | 3665.0 | 3682.4 | 3687.2 | 3667.4 |
| 60°   | 3714.2 | 3713.6 | 3776.0 | 3833.6 | 3911.7 | 3986.7 | 4082.7 | 4180.5 | 4292.7 | 4345.0 | 4275.9 |
| 62.5° | 4065.9 | 4080.3 | 4170.3 | 4272.3 | 4433.2 | 4589.8 | 4766.9 | 4940.9 | 5118.5 | 5263.2 | 5109.5 |
| 65°   | 4023.9 | 4079.1 | 4212.9 | 4444.0 | 4741.0 | 5093.9 | 5475.6 | 5879.5 | 6244.4 | 6495.2 | 6213.8 |
| 67.5° | 3487.4 | 3566.0 | 3702.2 | 3983.1 | 4354.6 | 4863.5 | 5504.4 | 6303.2 | 7231.6 | 7680.5 | 7124.2 |
| 70°   | 2527.8 | 2616.6 | 2759.4 | 3033.7 | 3401.6 | 3885.3 | 4581.4 | 5540.4 | 6769.5 | 7222.0 | 6609.3 |
| 72.5° | 1257.9 | 1305.9 | 1394.1 | 1568.7 | 1847.2 | 2239.7 | 2871.0 | 3792.8 | 4880.3 | 5295.6 | 4735.6 |
| 75°   | 427.3  | 449.5  | 464.5  | 521.5  | 609.7  | 764.0  | 1077.8 | 1658.2 | 2529.6 | 3032.5 | 2493.6 |
| 77.5° | 246.7  | 247.3  | 257.5  | 267.7  | 282.7  | 299.5  | 341.5  | 448.3  | 775.4  | 1101.2 | 802.4  |
| 80°   | 159.6  | 159.0  | 167.4  | 175.2  | 185.4  | 193.8  | 196.2  | 207.6  | 239.5  | 283.9  | 253.9  |
| 82.5° | 82.8   | 93.0   | 111.6  | 121.8  | 141.0  | 144.6  | 139.8  | 135.6  | 143.4  | 148.8  | 152.4  |
| 85°   | 45.6   | 39.6   | 59.4   | 76.8   | 85.2   | 86.4   | 86.4   | 81.6   | 84.6   | 82.8   | 90.0   |
| 87.5° | 21.0   | 19.2   | 23.4   | 37.8   | 40.2   | 34.2   | 36.0   | 31.8   | 22.8   | 22.2   | 25.2   |
| 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°    | 1300.5 | 1300.5 | 1300.5 | 1300.5 | 1300.5 | 1300.5 | 1300.5 | 1300.5 |
| 2.5°  | 1294.5 | 1295.1 | 1295.1 | 1296.9 | 1297.5 | 1298.7 | 1299.9 | 1300.5 |
| 5°    | 1284.3 | 1286.1 | 1284.9 | 1286.7 | 1286.7 | 1287.9 | 1287.9 | 1288.5 |
| 7.5°  | 1269.3 | 1271.1 | 1271.1 | 1271.1 | 1270.5 | 1272.3 | 1272.3 | 1272.3 |
| 10°   | 1253.7 | 1254.9 | 1254.3 | 1253.1 | 1251.9 | 1253.7 | 1253.1 | 1252.5 |
| 12.5° | 1248.9 | 1245.9 | 1243.5 | 1242.3 | 1239.9 | 1240.5 | 1238.7 | 1238.7 |
| 15°   | 1251.9 | 1246.5 | 1242.3 | 1240.5 | 1238.1 | 1236.9 | 1235.7 | 1236.3 |
| 17.5° | 1259.7 | 1253.1 | 1247.7 | 1244.7 | 1241.7 | 1239.9 | 1237.5 | 1238.1 |
| 20°   | 1273.5 | 1265.7 | 1257.9 | 1251.9 | 1246.5 | 1243.5 | 1241.7 | 1241.1 |
| 22.5° | 1293.9 | 1282.5 | 1271.1 | 1262.1 | 1254.9 | 1250.7 | 1248.9 | 1247.7 |
| 25°   | 1317.3 | 1304.7 | 1291.5 | 1281.3 | 1274.1 | 1268.7 | 1265.1 | 1265.1 |
| 27.5° | 1346.7 | 1336.5 | 1324.5 | 1312.5 | 1305.9 | 1300.5 | 1298.1 | 1296.9 |
| 30°   | 1395.9 | 1386.3 | 1376.7 | 1365.3 | 1356.9 | 1351.5 | 1347.3 | 1343.7 |
| 32.5° | 1458.9 | 1451.1 | 1443.3 | 1434.9 | 1427.1 | 1419.9 | 1413.3 | 1410.3 |
| 35°   | 1547.7 | 1541.7 | 1536.3 | 1526.7 | 1523.7 | 1519.5 | 1515.9 | 1512.9 |
| 37.5° | 1670.2 | 1667.8 | 1667.8 | 1657.6 | 1655.2 | 1653.4 | 1649.8 | 1650.4 |
| 40°   | 1831.0 | 1833.4 | 1830.4 | 1826.8 | 1825.0 | 1820.2 | 1820.2 | 1824.4 |
| 42.5° | 2021.2 | 2023.0 | 2029.6 | 2023.6 | 2030.2 | 2024.2 | 2020.6 | 2023.6 |
| 45°   | 2242.1 | 2248.7 | 2261.9 | 2255.9 | 2260.1 | 2249.9 | 2237.3 | 2237.9 |
| 47.5° | 2490.0 | 2496.0 | 2501.4 | 2497.2 | 2497.8 | 2480.9 | 2464.1 | 2459.9 |
| 50°   | 2747.4 | 2749.8 | 2752.8 | 2746.8 | 2748.0 | 2729.4 | 2710.2 | 2710.8 |
| 52.5° | 3001.9 | 3013.3 | 3025.3 | 3009.1 | 3005.5 | 2984.5 | 2957.5 | 2946.7 |
| 55°   | 3292.9 | 3309.1 | 3295.3 | 3267.1 | 3238.9 | 3210.7 | 3175.3 | 3169.3 |
| 57.5° | 3651.8 | 3624.2 | 3581.0 | 3527.6 | 3488.6 | 3449.0 | 3413.0 | 3398.0 |
| 60°   | 4151.1 | 4047.3 | 3969.3 | 3890.1 | 3840.2 | 3791.6 | 3744.2 | 3737.0 |
| 62.5° | 4856.9 | 4677.4 | 4522.0 | 4358.2 | 4224.3 | 4119.9 | 4036.5 | 4013.1 |
| 65°   | 5741.5 | 5317.2 | 4949.3 | 4606.0 | 4307.8 | 4082.7 | 3941.1 | 3878.7 |
| 67.5° | 6122.0 | 5284.2 | 4653.4 | 4166.1 | 3776.0 | 3503.6 | 3350.5 | 3274.3 |
| 70°   | 5379.6 | 4382.2 | 3696.2 | 3208.3 | 2853.0 | 2562.6 | 2423.9 | 2342.3 |
| 72.5° | 3701.0 | 2787.6 | 2204.3 | 1799.2 | 1515.3 | 1272.3 | 1176.3 | 1169.1 |
| 75°   | 1661.8 | 1100.6 | 758.6  | 584.5  | 492.1  | 427.9  | 408.1  | 393.1  |
| 77.5° | 465.1  | 343.9  | 306.7  | 286.9  | 267.7  | 245.5  | 237.1  | 238.9  |
| 80°   | 226.3  | 213.6  | 205.2  | 192.6  | 175.2  | 156.6  | 148.2  | 151.8  |
| 82.5° | 150.0  | 148.2  | 153.6  | 144.6  | 119.4  | 101.4  | 85.2   | 78.0   |
| 85°   | 91.2   | 92.4   | 94.2   | 94.8   | 80.4   | 56.4   | 38.4   | 43.2   |
| 87.5° | 36.0   | 41.4   | 45.0   | 46.8   | 43.8   | 27.0   | 21.6   | 22.2   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)