

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: LUMARK

Report Number: P232422

Luminaire Tested: **AXCL6ARL-W**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P232422  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29541)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: AXCL6ARL-W  
Description: AXCENT RL WALLPACK  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6806.1 lumens  
Efficiency: N/A  
Efficacy: 120.6 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 0.75' x H: 0.38')  
IES Classification: Type IV - Short - Non-Cutoff  
BUG Rating: B1 - U4 - G4

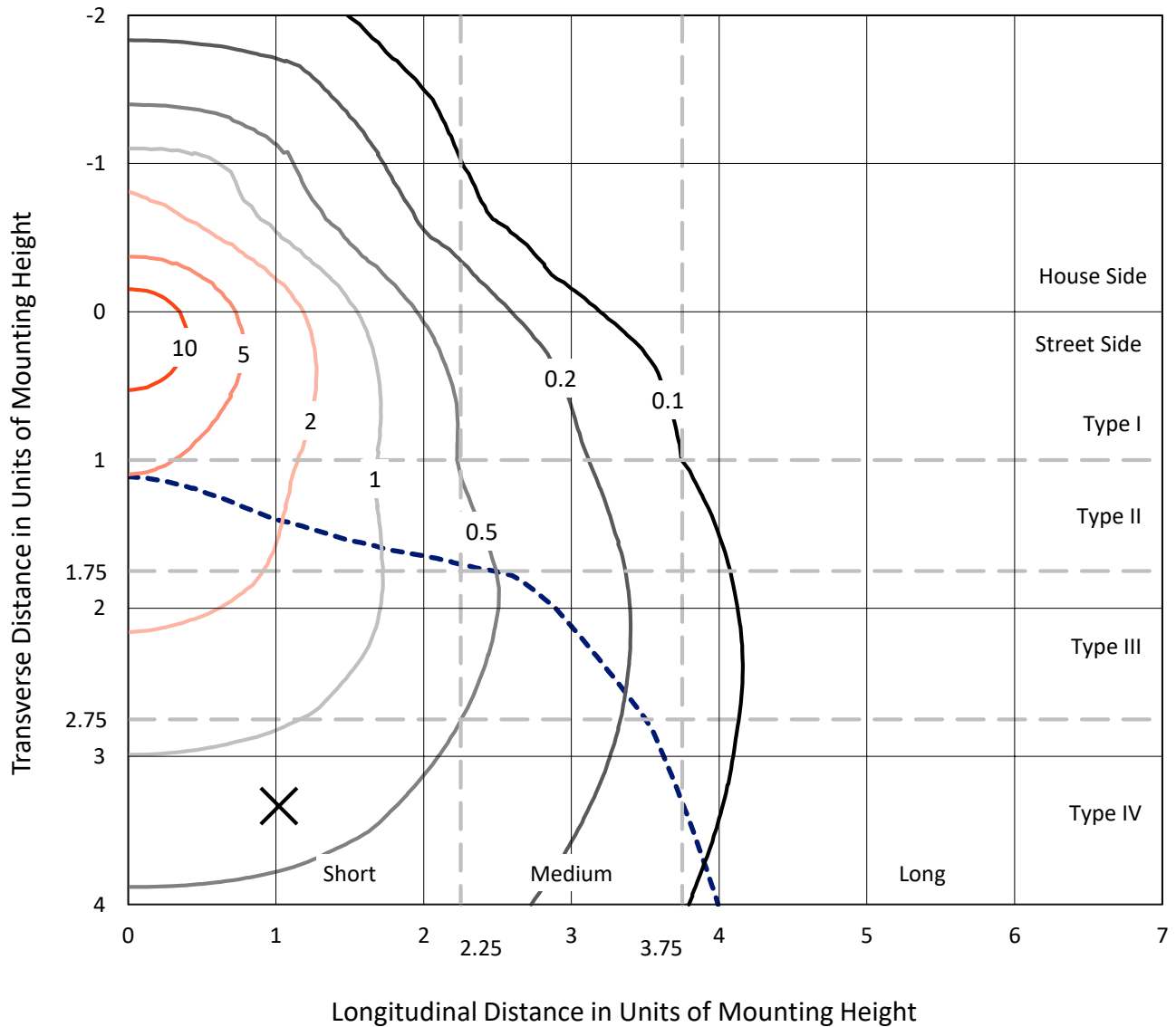
Input Watts (W): 56.43  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

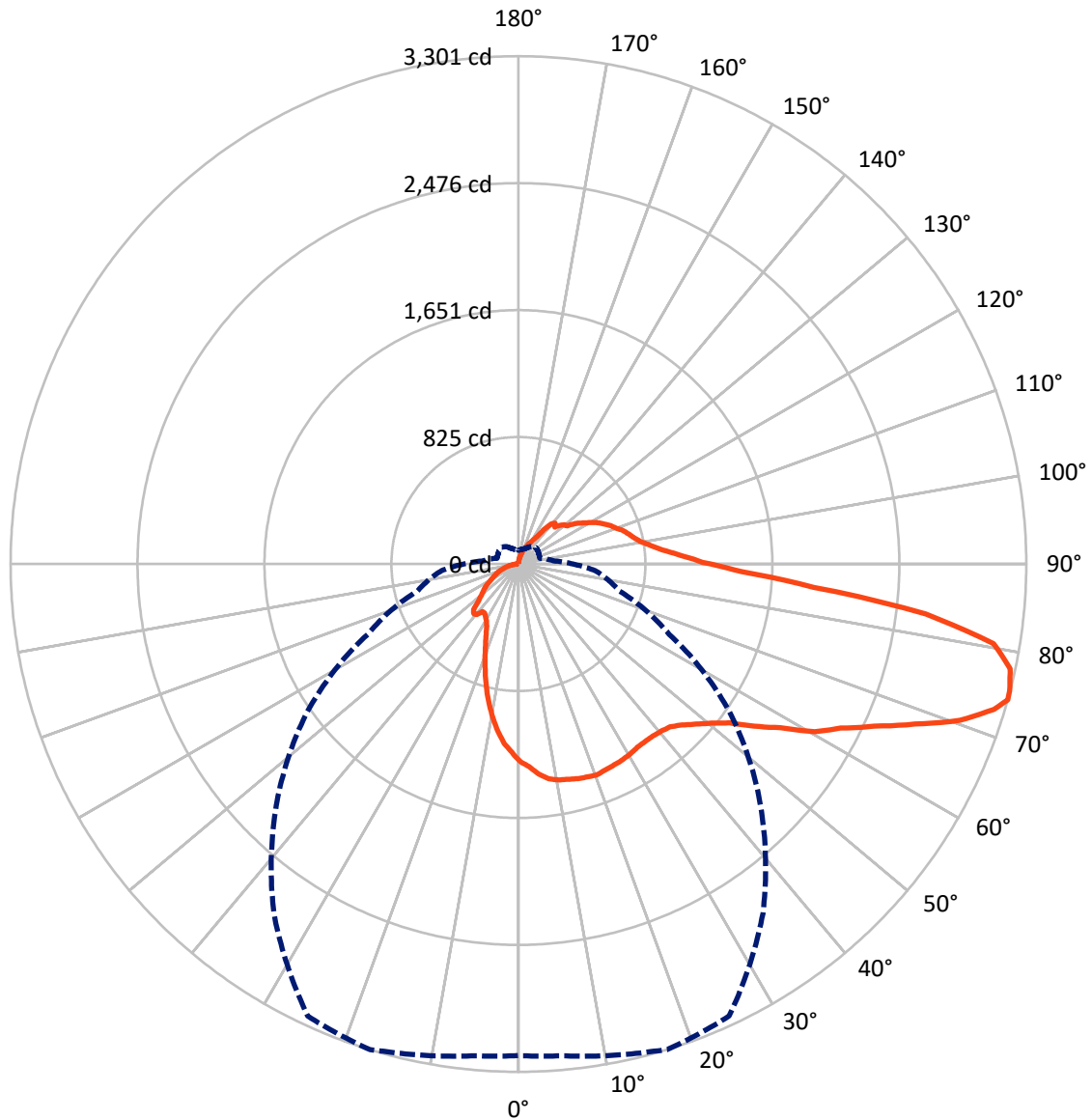
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 13.7 fc  
 Type IV - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 17-Deg Lateral    - - - Horizontal Cone Through 74-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1048.3   | 86.2   | 1134.6 |
|                    | % Fixture | 15.4     | 1.3    | 16.7   |
| <b>Street Side</b> | Lumens    | 4576.0   | 1095.6 | 5671.5 |
|                    | % Fixture | 67.2     | 16.1   | 83.3   |
| <b>Total</b>       | Lumens    | 5624.3   | 1181.8 | 6806.1 |
|                    | % Fixture | 82.6     | 17.4   | 100.0  |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 120.7  | 1.8       |
| 10°-20°   | 332.1  | 4.9       |
| 20°-30°   | 473.3  | 7.0       |
| 30°-40°   | 565.2  | 8.3       |
| 40°-50°   | 650.0  | 9.5       |
| 50°-60°   | 749.0  | 11.0      |
| 60°-70°   | 938.2  | 13.8      |
| 70°-80°   | 1119.9 | 16.5      |
| 80°-90°   | 676.0  | 9.9       |
| 90°-100°  | 360.9  | 5.3       |
| 100°-110° | 273.0  | 4.0       |
| 110°-120° | 213.0  | 3.1       |
| 120°-130° | 147.4  | 2.2       |
| 130°-140° | 100.8  | 1.5       |
| 140°-150° | 55.7   | 0.8       |
| 150°-160° | 23.1   | 0.3       |
| 160°-170° | 7.2    | 0.1       |
| 170°-180° | 0.7    | 0.0       |
| 0°-90°    | 5624.3 | 82.6      |
| 0°-180°   | 6806.1 | 100.0     |

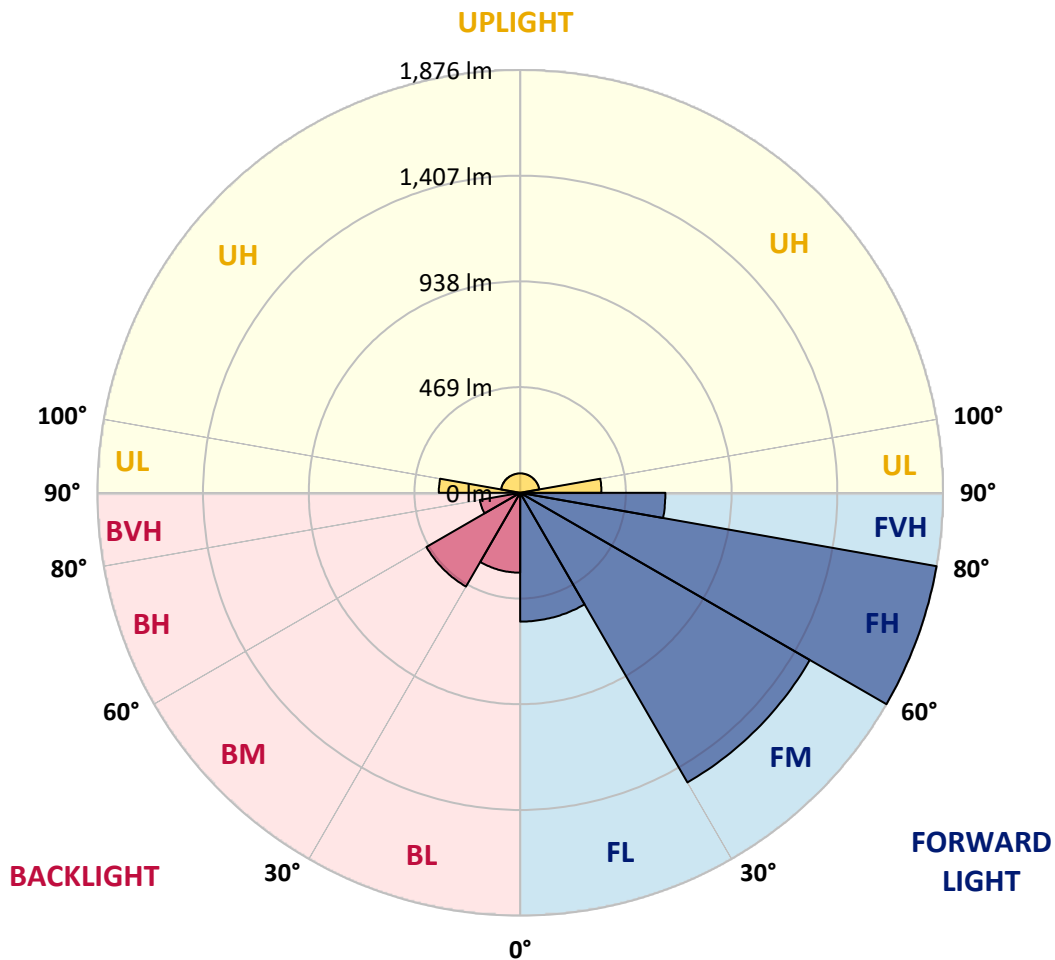


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |        |         |
|----------------|--------|-----------|-------------------------|--------|---------|
|                |        |           | B                       | U      | G       |
| FL (0°-30°)    | 571.6  | 8.4       |                         |        |         |
| FM (30°-60°)   | 1483.9 | 21.8      |                         |        |         |
| FH (60°-80°)   | 1876.2 | 27.6      |                         |        | G2/5000 |
| FVH (80°-90°)  | 644.3  | 9.5       |                         |        | G4/750  |
| BL (0°-30°)    | 354.5  | 5.2       | B1/500                  |        |         |
| BM (30°-60°)   | 480.3  | 7.1       | B1/1000                 |        |         |
| BH (60°-80°)   | 182.0  | 2.7       | B1/500                  |        | G1/500  |
| BVH (80°-90°)  | 31.6   | 0.5       |                         |        | G1/100  |
| UL (90°-100°)  | 360.9  | 5.3       |                         | U3/500 |         |
| UH (100°-180°) | 86.2   | 1.3       |                         | U3/500 |         |

**BUG Rating: B1-U4-G4**  
 Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 5°     | 15°    | 17°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1283.6 | 1283.6 | 1283.6 | 1283.6 | 1283.6 | 1283.6 | 1283.6 | 1283.6 | 1283.6 | 1283.6 | 1283.6 |
| 2.5°   | 1318.1 | 1316.2 | 1317.6 | 1318.1 | 1318.1 | 1315.3 | 1311.1 | 1306.9 | 1304.6 | 1297.1 | 1291.1 |
| 5°     | 1375.8 | 1371.1 | 1371.6 | 1371.6 | 1366.9 | 1357.2 | 1345.5 | 1333.9 | 1323.2 | 1306.9 | 1294.8 |
| 7.5°   | 1411.1 | 1410.7 | 1408.8 | 1409.3 | 1403.2 | 1392.5 | 1378.1 | 1359.9 | 1335.3 | 1314.3 | 1291.6 |
| 10°    | 1428.3 | 1427.9 | 1426.9 | 1427.4 | 1422.3 | 1410.2 | 1393.4 | 1373.0 | 1345.1 | 1311.6 | 1279.9 |
| 12.5°  | 1439.0 | 1440.0 | 1436.7 | 1435.8 | 1431.1 | 1420.4 | 1406.9 | 1381.3 | 1352.5 | 1306.9 | 1266.9 |
| 15°    | 1451.6 | 1452.1 | 1447.4 | 1447.4 | 1442.8 | 1429.7 | 1410.7 | 1390.6 | 1354.8 | 1306.0 | 1254.8 |
| 17.5°  | 1462.3 | 1463.2 | 1454.9 | 1454.9 | 1445.1 | 1428.8 | 1410.7 | 1386.9 | 1350.6 | 1296.7 | 1236.2 |
| 20°    | 1468.3 | 1468.3 | 1462.3 | 1461.8 | 1446.9 | 1424.1 | 1399.0 | 1371.1 | 1337.1 | 1278.5 | 1209.2 |
| 22.5°  | 1458.1 | 1458.6 | 1452.5 | 1452.1 | 1442.3 | 1419.5 | 1385.1 | 1354.8 | 1319.0 | 1255.3 | 1176.2 |
| 25°    | 1455.3 | 1454.9 | 1446.9 | 1446.5 | 1432.5 | 1413.4 | 1376.7 | 1332.5 | 1293.9 | 1230.6 | 1144.1 |
| 27.5°  | 1450.7 | 1451.6 | 1443.2 | 1441.8 | 1427.4 | 1399.5 | 1366.9 | 1314.3 | 1266.4 | 1205.0 | 1114.8 |
| 30°    | 1441.4 | 1441.8 | 1433.9 | 1432.1 | 1413.9 | 1386.0 | 1343.7 | 1291.6 | 1239.9 | 1175.2 | 1078.9 |
| 32.5°  | 1435.8 | 1436.2 | 1422.8 | 1420.0 | 1400.4 | 1366.5 | 1318.1 | 1269.7 | 1206.4 | 1143.1 | 1043.1 |
| 35°    | 1437.6 | 1435.8 | 1420.9 | 1417.6 | 1389.3 | 1350.2 | 1298.1 | 1244.1 | 1179.4 | 1115.2 | 1007.7 |
| 37.5°  | 1448.8 | 1446.9 | 1424.1 | 1419.0 | 1386.9 | 1330.2 | 1276.2 | 1218.0 | 1150.6 | 1091.5 | 972.8  |
| 40°    | 1458.6 | 1455.8 | 1434.8 | 1428.8 | 1391.6 | 1324.6 | 1255.7 | 1197.1 | 1135.7 | 1058.9 | 946.3  |
| 42.5°  | 1497.2 | 1493.5 | 1454.9 | 1445.5 | 1395.8 | 1317.6 | 1233.9 | 1174.8 | 1111.5 | 1036.1 | 911.4  |
| 45°    | 1561.9 | 1554.9 | 1504.6 | 1491.6 | 1416.2 | 1312.0 | 1225.0 | 1160.8 | 1091.5 | 994.3  | 878.9  |
| 47.5°  | 1631.2 | 1625.6 | 1570.7 | 1554.9 | 1463.7 | 1320.4 | 1218.5 | 1151.5 | 1063.6 | 978.0  | 850.5  |
| 50°    | 1709.3 | 1703.3 | 1644.7 | 1625.6 | 1521.4 | 1346.0 | 1223.2 | 1135.7 | 1037.1 | 934.7  | 806.3  |
| 52.5°  | 1837.8 | 1824.3 | 1739.6 | 1715.9 | 1595.8 | 1392.5 | 1228.3 | 1132.0 | 1019.4 | 906.3  | 783.0  |
| 55°    | 1983.4 | 1973.1 | 1886.1 | 1859.2 | 1706.6 | 1457.6 | 1239.4 | 1125.0 | 1000.3 | 880.7  | 742.1  |
| 57.5°  | 2157.4 | 2144.4 | 2033.2 | 2007.6 | 1845.7 | 1542.3 | 1282.7 | 1106.8 | 990.1  | 848.6  | 708.6  |
| 60°    | 2339.8 | 2326.3 | 2239.3 | 2212.3 | 2036.9 | 1662.8 | 1359.5 | 1105.4 | 981.7  | 824.9  | 672.8  |
| 62.5°  | 2483.1 | 2468.6 | 2366.8 | 2349.5 | 2213.7 | 1853.6 | 1457.6 | 1132.0 | 960.3  | 803.0  | 638.8  |
| 65°    | 2686.9 | 2667.3 | 2565.9 | 2540.8 | 2378.9 | 2037.8 | 1605.6 | 1189.7 | 934.7  | 791.9  | 603.9  |
| 67.5°  | 2886.4 | 2878.1 | 2793.9 | 2777.6 | 2647.3 | 2298.4 | 1800.1 | 1294.8 | 920.7  | 782.6  | 567.6  |
| 70°    | 3086.0 | 3080.0 | 3038.1 | 3044.2 | 2977.2 | 2611.0 | 2087.1 | 1476.3 | 949.1  | 779.3  | 538.8  |
| 72.5°  | 3165.1 | 3166.1 | 3207.5 | 3231.2 | 3196.3 | 2779.9 | 2249.0 | 1701.0 | 1032.9 | 721.1  | 516.4  |
| 74°    | 3194.9 | 3208.4 | 3282.4 | 3301.0 | 3241.4 | 2771.1 | 2226.7 | 1674.5 | 1080.3 | 679.7  | 502.5  |
| 75°    | 3213.1 | 3229.8 | 3286.1 | 3297.7 | 3215.8 | 2719.0 | 2184.4 | 1619.6 | 1084.0 | 654.1  | 492.7  |
| 77.5°  | 3236.3 | 3249.3 | 3276.8 | 3267.5 | 3064.2 | 2477.0 | 1975.5 | 1483.2 | 1002.6 | 598.8  | 466.7  |
| 80°    | 3187.9 | 3200.0 | 3185.6 | 3131.6 | 2787.3 | 2168.1 | 1641.4 | 1194.8 | 862.6  | 518.3  | 393.6  |
| 82.5°  | 2958.6 | 2950.7 | 2782.2 | 2668.2 | 2230.9 | 1641.4 | 1090.1 | 851.4  | 704.9  | 467.6  | 272.2  |
| 85°    | 2444.0 | 2400.3 | 2029.4 | 1926.2 | 1613.0 | 1181.3 | 913.8  | 752.3  | 628.1  | 452.2  | 187.5  |
| 87.5°  | 1715.4 | 1681.9 | 1503.7 | 1452.1 | 1267.4 | 1001.7 | 820.7  | 690.4  | 567.6  | 414.5  | 121.9  |
| 90°    | 1369.2 | 1353.0 | 1230.6 | 1197.1 | 1088.2 | 898.9  | 743.5  | 622.5  | 506.2  | 351.3  | 99.1   |
| 92.5°  | 1174.8 | 1162.2 | 1075.7 | 1059.4 | 974.2  | 824.0  | 690.0  | 573.7  | 447.1  | 284.7  | 89.8   |
| 95°    | 1023.1 | 1012.9 | 944.9  | 942.6  | 890.0  | 769.5  | 650.0  | 541.6  | 397.3  | 228.9  | 90.7   |
| 97.5°  | 908.2  | 900.7  | 863.0  | 866.3  | 827.7  | 720.7  | 603.4  | 515.0  | 349.9  | 192.6  | 95.8   |
| 100°   | 830.5  | 825.4  | 795.6  | 804.9  | 776.0  | 679.3  | 574.6  | 473.6  | 316.4  | 167.5  | 102.8  |
| 102.5° | 781.2  | 777.4  | 756.0  | 768.1  | 736.5  | 652.3  | 550.4  | 439.7  | 286.1  | 167.0  | 111.7  |
| 105°   | 739.8  | 737.9  | 726.7  | 739.3  | 720.7  | 623.9  | 521.6  | 406.6  | 264.7  | 171.2  | 119.1  |
| 107.5° | 712.8  | 712.3  | 701.1  | 710.4  | 676.5  | 592.7  | 485.3  | 382.9  | 258.7  | 175.4  | 123.8  |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 5°    | 15°   | 17°   | 25°   | 35°   | 45°   | 55°   | 65°   | 75°   | 85°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 110°   | 661.1 | 662.1 | 664.4 | 671.8 | 646.2 | 560.6 | 457.8 | 356.9 | 258.2 | 176.8 | 124.2 |
| 112.5° | 640.7 | 639.7 | 639.7 | 643.9 | 607.2 | 527.1 | 444.8 | 337.8 | 246.1 | 176.3 | 121.4 |
| 115°   | 611.8 | 611.8 | 610.0 | 609.5 | 570.4 | 492.7 | 422.0 | 325.2 | 236.8 | 171.7 | 116.3 |
| 117.5° | 580.2 | 580.6 | 572.7 | 573.2 | 531.3 | 471.8 | 387.1 | 313.1 | 227.0 | 163.3 | 109.3 |
| 120°   | 538.3 | 536.9 | 530.4 | 529.5 | 495.5 | 437.8 | 355.0 | 280.1 | 211.7 | 156.8 | 101.4 |
| 122.5° | 496.4 | 496.9 | 489.9 | 489.0 | 459.2 | 393.6 | 342.9 | 262.4 | 202.9 | 148.0 | 94.4  |
| 125°   | 457.3 | 457.8 | 455.5 | 453.2 | 414.5 | 373.1 | 308.9 | 248.9 | 192.2 | 139.6 | 87.5  |
| 127.5° | 423.8 | 425.2 | 408.0 | 402.9 | 387.1 | 358.7 | 284.3 | 227.5 | 183.3 | 129.3 | 80.0  |
| 130°   | 388.0 | 388.5 | 391.3 | 392.7 | 377.3 | 317.8 | 276.8 | 221.5 | 174.9 | 120.0 | 73.0  |
| 132.5° | 385.7 | 385.2 | 375.0 | 368.9 | 337.3 | 302.9 | 248.0 | 209.4 | 163.3 | 112.6 | 66.5  |
| 135°   | 352.7 | 350.8 | 339.6 | 336.8 | 321.5 | 291.7 | 253.6 | 208.4 | 160.5 | 105.6 | 60.5  |
| 137.5° | 356.9 | 355.5 | 356.9 | 357.3 | 336.8 | 292.6 | 258.2 | 208.4 | 153.5 | 97.2  | 54.9  |
| 140°   | 358.2 | 357.8 | 341.5 | 337.8 | 320.6 | 299.6 | 248.0 | 194.9 | 138.2 | 85.6  | 49.3  |
| 142.5° | 289.9 | 292.2 | 288.5 | 288.0 | 284.3 | 237.3 | 209.8 | 159.1 | 115.8 | 74.9  | 44.7  |
| 145°   | 240.5 | 241.9 | 225.6 | 220.5 | 207.0 | 199.6 | 168.4 | 133.1 | 100.0 | 67.0  | 40.0  |
| 147.5° | 180.5 | 181.4 | 184.7 | 186.6 | 184.7 | 159.6 | 137.7 | 117.2 | 86.5  | 60.5  | 35.4  |
| 150°   | 168.4 | 168.4 | 159.6 | 160.5 | 151.7 | 139.6 | 126.1 | 108.4 | 79.1  | 54.4  | 31.2  |
| 152.5° | 142.8 | 142.8 | 145.6 | 146.1 | 134.5 | 125.6 | 112.6 | 93.1  | 71.6  | 48.9  | 27.5  |
| 155°   | 124.2 | 125.6 | 122.4 | 122.4 | 123.3 | 111.2 | 98.6  | 79.6  | 63.3  | 43.3  | 25.1  |
| 157.5° | 114.0 | 115.8 | 109.8 | 109.3 | 106.5 | 97.7  | 81.9  | 69.8  | 53.5  | 37.7  | 23.7  |
| 160°   | 100.0 | 101.0 | 96.8  | 95.8  | 87.9  | 78.6  | 68.4  | 58.2  | 45.1  | 32.6  | 21.4  |
| 162.5° | 76.8  | 78.2  | 74.4  | 74.0  | 69.3  | 64.7  | 57.2  | 47.0  | 36.8  | 27.0  | 18.6  |
| 165°   | 62.8  | 63.3  | 61.9  | 61.9  | 59.6  | 51.2  | 44.7  | 37.7  | 29.3  | 20.9  | 15.4  |
| 167.5° | 47.5  | 48.4  | 47.0  | 47.5  | 45.1  | 40.5  | 34.9  | 28.4  | 21.4  | 15.4  | 12.1  |
| 170°   | 37.2  | 37.7  | 36.8  | 36.8  | 34.4  | 29.8  | 23.7  | 18.6  | 14.4  | 9.8   | 9.3   |
| 172.5° | 26.1  | 26.5  | 24.2  | 24.7  | 20.5  | 17.2  | 14.0  | 11.2  | 8.8   | 7.4   | 7.4   |
| 175°   | 3.3   | 4.2   | 7.9   | 7.9   | 8.8   | 7.9   | 7.4   | 6.0   | 5.6   | 6.0   | 6.0   |
| 177.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 180°   | 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°     | 1283.6 | 1283.6 | 1283.6 | 1283.6 | 1283.6 | 1283.6 | 1283.6 | 1283.6 | 1283.6 | 1283.6 | 1283.6 |
| 2.5°   | 1287.8 | 1284.1 | 1274.3 | 1265.0 | 1252.5 | 1241.8 | 1232.5 | 1225.0 | 1224.1 | 1219.4 | 1219.0 |
| 5°     | 1287.8 | 1280.8 | 1261.3 | 1239.9 | 1219.9 | 1203.2 | 1186.9 | 1172.9 | 1168.3 | 1161.3 | 1159.9 |
| 7.5°   | 1281.8 | 1270.1 | 1241.8 | 1212.0 | 1179.4 | 1151.0 | 1126.8 | 1104.5 | 1095.2 | 1085.4 | 1082.7 |
| 10°    | 1267.8 | 1251.5 | 1212.5 | 1171.5 | 1128.7 | 1088.2 | 1053.3 | 1020.8 | 1005.9 | 996.1  | 992.4  |
| 12.5°  | 1252.5 | 1231.5 | 1183.6 | 1128.2 | 1072.9 | 1020.3 | 978.0  | 943.1  | 918.4  | 903.1  | 898.4  |
| 15°    | 1236.2 | 1209.7 | 1149.2 | 1083.6 | 1011.5 | 955.2  | 897.0  | 852.3  | 824.4  | 807.2  | 802.1  |
| 17.5°  | 1213.4 | 1181.7 | 1110.6 | 1030.5 | 949.1  | 872.8  | 809.5  | 761.2  | 730.0  | 711.8  | 706.3  |
| 20°    | 1181.7 | 1143.6 | 1061.2 | 969.1  | 873.3  | 788.6  | 722.1  | 673.2  | 642.1  | 623.0  | 616.5  |
| 22.5°  | 1147.8 | 1103.6 | 1009.6 | 906.8  | 801.2  | 711.4  | 641.6  | 594.1  | 563.4  | 546.2  | 547.6  |
| 25°    | 1112.0 | 1064.0 | 959.8  | 843.0  | 724.9  | 638.3  | 570.9  | 529.0  | 497.8  | 483.9  | 483.9  |
| 27.5°  | 1076.1 | 1023.1 | 908.6  | 778.8  | 656.5  | 572.7  | 511.3  | 473.2  | 448.0  | 439.2  | 439.2  |
| 30°    | 1036.1 | 978.0  | 851.0  | 712.3  | 596.5  | 515.5  | 459.2  | 430.8  | 420.1  | 415.5  | 415.5  |
| 32.5°  | 991.9  | 933.8  | 799.3  | 649.0  | 540.2  | 464.8  | 417.8  | 406.6  | 401.1  | 399.7  | 400.1  |
| 35°    | 954.2  | 890.0  | 745.3  | 590.4  | 490.4  | 421.5  | 393.1  | 389.9  | 387.6  | 386.6  | 386.6  |
| 37.5°  | 919.3  | 850.5  | 690.9  | 540.6  | 446.6  | 388.0  | 376.4  | 377.3  | 389.9  | 412.2  | 414.1  |
| 40°    | 881.2  | 811.9  | 637.9  | 493.2  | 408.0  | 364.3  | 363.4  | 377.3  | 438.3  | 459.2  | 458.7  |
| 42.5°  | 848.6  | 770.9  | 589.0  | 453.2  | 374.1  | 347.5  | 350.3  | 417.3  | 438.3  | 433.6  | 434.5  |
| 45°    | 806.8  | 735.6  | 546.2  | 411.3  | 344.3  | 332.7  | 356.9  | 418.3  | 414.5  | 396.4  | 396.4  |
| 47.5°  | 777.9  | 688.1  | 504.8  | 375.5  | 321.0  | 319.2  | 388.0  | 392.2  | 348.5  | 320.6  | 320.1  |
| 50°    | 734.6  | 656.5  | 459.7  | 342.0  | 303.8  | 310.3  | 367.6  | 348.5  | 312.2  | 294.0  | 293.6  |
| 52.5°  | 697.9  | 607.2  | 415.9  | 313.6  | 289.4  | 308.9  | 340.1  | 313.6  | 284.3  | 274.5  | 274.5  |
| 55°    | 663.5  | 571.3  | 375.9  | 288.0  | 275.4  | 317.3  | 299.2  | 286.6  | 263.3  | 248.4  | 247.5  |
| 57.5°  | 614.1  | 510.4  | 333.1  | 266.1  | 261.0  | 293.6  | 273.1  | 259.6  | 235.4  | 217.3  | 215.9  |
| 60°    | 576.5  | 463.9  | 291.7  | 247.5  | 246.1  | 263.8  | 258.2  | 233.1  | 204.7  | 192.2  | 191.2  |
| 62.5°  | 531.3  | 428.5  | 257.3  | 229.4  | 228.4  | 231.2  | 238.7  | 206.6  | 183.3  | 173.1  | 172.1  |
| 65°    | 490.4  | 382.0  | 230.3  | 211.2  | 211.7  | 206.6  | 219.1  | 182.4  | 164.2  | 154.0  | 154.0  |
| 67.5°  | 449.0  | 337.8  | 205.2  | 191.7  | 201.5  | 192.6  | 200.5  | 162.4  | 147.5  | 137.7  | 136.8  |
| 70°    | 410.4  | 295.0  | 180.5  | 174.5  | 184.2  | 177.3  | 175.9  | 142.8  | 129.3  | 120.0  | 119.1  |
| 72.5°  | 375.5  | 254.0  | 157.7  | 156.8  | 164.2  | 163.3  | 150.7  | 123.8  | 110.7  | 102.4  | 100.5  |
| 74°    | 353.6  | 229.8  | 144.2  | 146.6  | 153.5  | 154.5  | 137.3  | 112.1  | 99.1   | 92.1   | 89.8   |
| 75°    | 340.1  | 211.2  | 134.9  | 139.6  | 147.0  | 148.0  | 127.9  | 103.8  | 91.7   | 84.7   | 82.4   |
| 77.5°  | 297.3  | 161.9  | 114.5  | 127.5  | 134.0  | 131.2  | 107.0  | 83.7   | 74.0   | 67.0   | 65.1   |
| 80°    | 233.6  | 115.4  | 95.8   | 115.4  | 122.4  | 110.3  | 84.2   | 65.6   | 55.4   | 49.8   | 48.9   |
| 82.5°  | 163.8  | 80.5   | 78.2   | 92.6   | 101.4  | 88.9   | 64.2   | 48.4   | 40.0   | 35.8   | 34.9   |
| 85°    | 101.0  | 59.1   | 63.7   | 74.0   | 78.2   | 65.6   | 47.5   | 37.7   | 29.3   | 24.7   | 23.7   |
| 87.5°  | 64.2   | 48.9   | 52.1   | 64.7   | 59.6   | 47.0   | 36.3   | 27.5   | 20.5   | 15.8   | 15.4   |
| 90°    | 52.1   | 47.9   | 48.4   | 62.3   | 48.9   | 36.8   | 27.0   | 18.6   | 9.3    | 4.7    | 4.2    |
| 92.5°  | 53.5   | 52.1   | 53.0   | 65.6   | 47.9   | 34.9   | 25.1   | 17.2   | 7.9    | 3.3    | 2.8    |
| 95°    | 67.0   | 60.5   | 60.9   | 64.7   | 49.3   | 35.4   | 25.1   | 17.2   | 7.9    | 2.8    | 2.3    |
| 97.5°  | 78.6   | 70.3   | 65.6   | 62.3   | 49.8   | 35.8   | 24.7   | 16.3   | 7.4    | 2.3    | 1.9    |
| 100°   | 86.5   | 78.2   | 65.6   | 60.5   | 49.3   | 35.4   | 24.2   | 15.4   | 7.0    | 1.9    | 1.9    |
| 102.5° | 94.0   | 84.2   | 67.5   | 59.6   | 48.9   | 34.4   | 23.3   | 14.4   | 6.5    | 1.9    | 1.4    |
| 105°   | 100.0  | 88.4   | 70.3   | 58.6   | 48.4   | 33.5   | 22.3   | 13.5   | 6.0    | 1.4    | 0.9    |
| 107.5° | 102.8  | 89.8   | 71.6   | 57.2   | 48.4   | 32.6   | 21.4   | 12.6   | 5.1    | 0.9    | 0.5    |



REPORT NUMBER: P232422  
 CATALOG NUMBER: AXCL6ARL-W

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| 110°   | 102.4 | 89.3 | 70.7 | 57.2 | 48.9 | 32.1 | 20.5 | 11.6 | 4.7  | 0.5  | 0.0  |
| 112.5° | 99.6  | 87.0 | 68.4 | 57.7 | 47.0 | 32.6 | 19.5 | 11.2 | 4.2  | 0.5  | 0.0  |
| 115°   | 95.4  | 83.7 | 65.6 | 57.7 | 44.7 | 32.1 | 18.6 | 10.2 | 3.3  | 0.0  | 0.0  |
| 117.5° | 89.8  | 79.6 | 62.8 | 56.8 | 42.3 | 30.7 | 17.7 | 9.3  | 2.8  | 0.0  | 0.0  |
| 120°   | 84.2  | 74.9 | 60.0 | 55.4 | 40.9 | 28.8 | 17.2 | 8.8  | 2.3  | 0.0  | 0.0  |
| 122.5° | 78.2  | 70.3 | 57.2 | 53.0 | 40.0 | 26.5 | 15.8 | 7.9  | 1.9  | 0.0  | 0.0  |
| 125°   | 72.1  | 65.1 | 54.0 | 51.6 | 37.7 | 24.7 | 14.4 | 7.0  | 1.4  | 0.0  | 0.0  |
| 127.5° | 66.5  | 60.0 | 50.2 | 50.2 | 34.4 | 23.7 | 13.0 | 6.0  | 1.4  | 0.0  | 0.0  |
| 130°   | 60.5  | 54.9 | 47.0 | 47.9 | 31.6 | 22.3 | 12.1 | 5.6  | 0.9  | 0.0  | 0.0  |
| 132.5° | 54.9  | 49.8 | 43.7 | 44.7 | 28.8 | 21.4 | 11.2 | 4.7  | 0.9  | 0.0  | 0.0  |
| 135°   | 49.8  | 46.1 | 40.5 | 40.9 | 26.5 | 20.5 | 9.8  | 4.2  | 0.9  | 0.0  | 0.0  |
| 137.5° | 45.1  | 42.3 | 38.2 | 36.8 | 24.2 | 19.1 | 8.8  | 3.3  | 0.5  | 0.0  | 0.0  |
| 140°   | 41.9  | 39.1 | 37.2 | 33.0 | 21.9 | 17.7 | 7.9  | 2.8  | 0.5  | 0.0  | 0.0  |
| 142.5° | 38.2  | 36.3 | 36.8 | 29.3 | 20.0 | 15.8 | 7.0  | 2.3  | 0.5  | 0.0  | 0.0  |
| 145°   | 34.0  | 33.0 | 34.9 | 25.1 | 18.1 | 14.4 | 6.0  | 2.3  | 0.5  | 0.0  | 0.0  |
| 147.5° | 31.2  | 30.7 | 33.5 | 21.4 | 16.3 | 13.0 | 5.6  | 1.9  | 0.5  | 0.0  | 0.0  |
| 150°   | 28.8  | 28.8 | 30.2 | 18.1 | 14.4 | 11.2 | 4.7  | 1.9  | 0.0  | 0.0  | 0.0  |
| 152.5° | 26.5  | 27.5 | 26.5 | 15.8 | 12.6 | 9.8  | 3.7  | 1.9  | 0.0  | 0.0  | 0.0  |
| 155°   | 24.7  | 25.1 | 22.8 | 14.0 | 10.7 | 7.9  | 3.7  | 1.4  | 0.0  | 0.0  | 0.0  |
| 157.5° | 23.7  | 23.7 | 20.0 | 12.1 | 8.8  | 6.0  | 3.3  | 1.4  | 0.0  | 0.0  | 0.0  |
| 160°   | 21.9  | 21.9 | 17.2 | 10.7 | 7.4  | 5.1  | 2.8  | 1.4  | 0.0  | 0.0  | 0.0  |
| 162.5° | 19.1  | 18.6 | 14.4 | 9.3  | 6.5  | 4.2  | 2.8  | 1.4  | 0.0  | 0.0  | 0.0  |
| 165°   | 15.4  | 14.4 | 11.2 | 7.9  | 5.1  | 3.7  | 2.3  | 1.4  | 0.0  | 0.0  | 0.0  |
| 167.5° | 11.6  | 11.2 | 8.4  | 6.0  | 4.2  | 3.3  | 2.3  | 1.4  | 0.0  | 0.0  | 0.0  |
| 170°   | 8.8   | 8.4  | 6.5  | 4.7  | 3.7  | 3.3  | 2.3  | 1.4  | 0.0  | 0.0  | 0.0  |
| 172.5° | 7.0   | 7.0  | 5.6  | 4.2  | 3.7  | 3.3  | 2.3  | 0.9  | 0.0  | 0.0  | 0.0  |
| 175°   | 6.0   | 5.6  | 4.7  | 4.2  | 3.7  | 2.3  | 1.9  | 0.9  | 0.0  | 0.0  | 0.0  |
| 177.5° | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 180°   | 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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