

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: P290544

Luminaire Tested: **AXCS4A-C-GRF**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P290544  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1901-095-5)  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: AXCS4A-C-GRF  
Description: 4A AXCENT SMALL LED WALLPACK WITH 5000K CCT AND 70 CRI LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4876.9 lumens  
Efficiency: N/A  
Efficacy: 111.6 lumens/watt  
Luminous Opening: Rectangular (W 0.17' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1

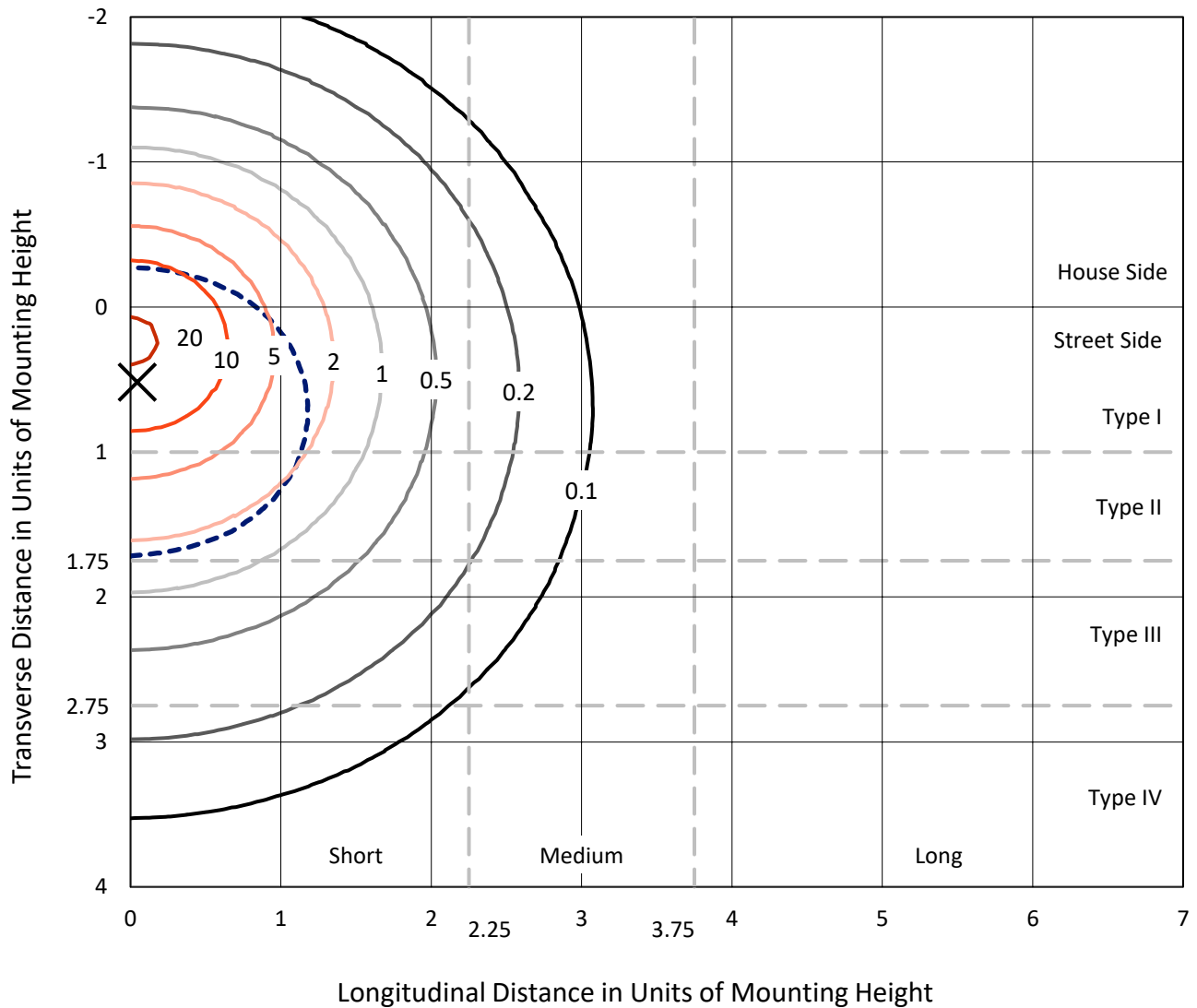
Input Watts (W): 43.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P290544  
 CATALOG NUMBER: AXCS4A-C-GRF

### Iso-Footcandle Lines of Horizontal Illumination

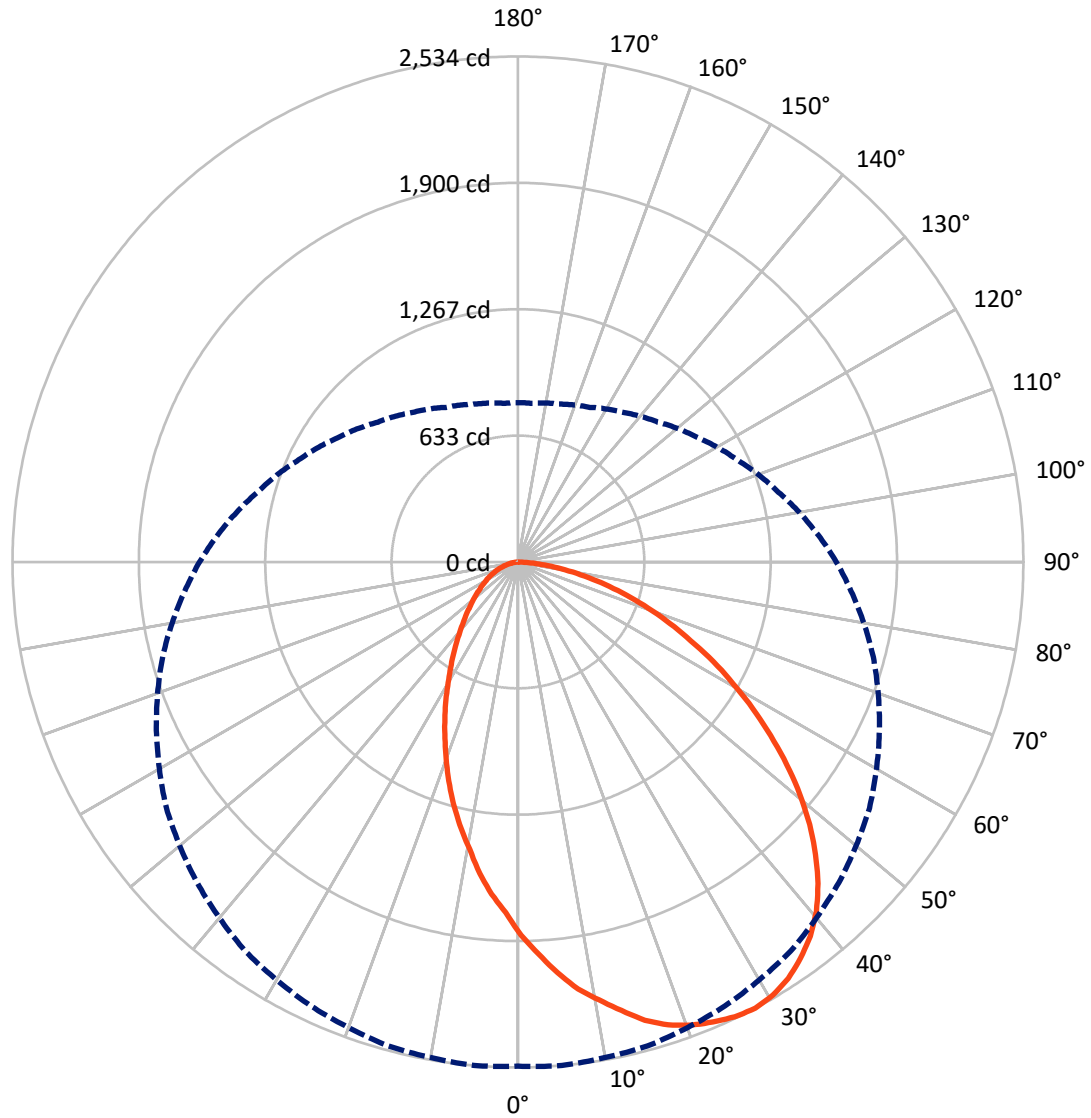
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 21.5 fc  
 Type II - Short - N/A

REPORT NUMBER: P290544  
CATALOG NUMBER: AXCS4A-C-GRF

### Luminous Intensity Polar Plot



— Vertical Plane Through 5-Deg Lateral      - - - Horizontal Cone Through 27.5-Deg Vertical

REPORT NUMBER: P290544  
 CATALOG NUMBER: AXCS4A-C-GRF

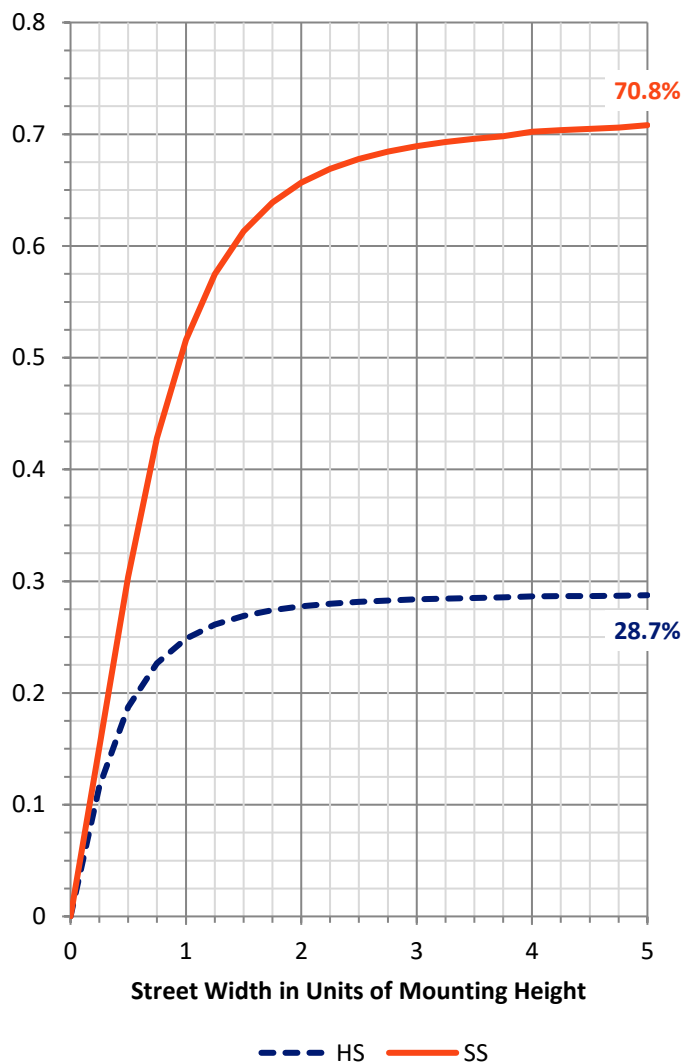
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1413.2   | 0.0    | 1413.2 |
|                    | % Fixture | 29.0     | 0.0    | 29.0   |
| <b>Street Side</b> | Lumens    | 3463.7   | 0.0    | 3463.7 |
|                    | % Fixture | 71.0     | 0.0    | 71.0   |
| <b>Total</b>       | Lumens    | 4876.9   | 0.0    | 4876.9 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 177.6  | 3.6       |
| 10°-20°   | 511.3  | 10.5      |
| 20°-30°   | 771.8  | 15.8      |
| 30°-40°   | 913.7  | 18.7      |
| 40°-50°   | 906.9  | 18.6      |
| 50°-60°   | 756.0  | 15.5      |
| 60°-70°   | 521.1  | 10.7      |
| 70°-80°   | 264.6  | 5.4       |
| 80°-90°   | 53.9   | 1.1       |
| 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°    | 4876.9 | 100.0     |
| 0°-180°   | 4876.9 | 100.0     |

**Coefficient of Utilization**

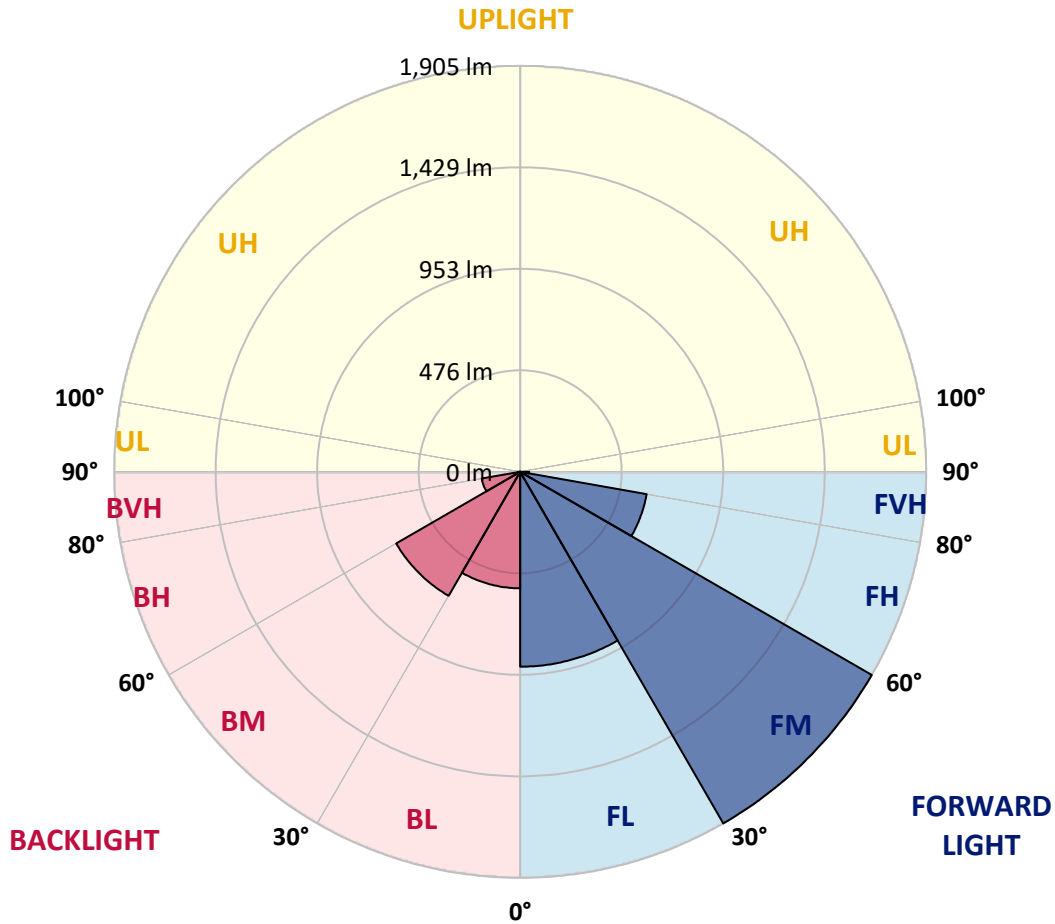


REPORT NUMBER: P290544  
 CATALOG NUMBER: AXCS4A-C-GRF

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

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |        |
|----------------|--------|-----------|-------------------------|------|--------|
|                |        |           | B                       | U    | G      |
| FL (0°-30°)    | 914.2  | 18.7      |                         |      |        |
| FM (30°-60°)   | 1905.0 | 39.1      |                         |      |        |
| FH (60°-80°)   | 602.5  | 12.4      |                         |      | G0/660 |
| FVH (80°-90°)  | 41.9   | 0.9       |                         |      | G1/100 |
| BL (0°-30°)    | 546.5  | 11.2      | B2/1000                 |      |        |
| BM (30°-60°)   | 671.6  | 13.8      | B1/1000                 |      |        |
| BH (60°-80°)   | 183.2  | 3.8       | B1/500                  |      | G1/500 |
| BVH (80°-90°)  | 12.0   | 0.2       |                         |      | G1/100 |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |        |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |        |

**BUG Rating: B2-U0-G1**  
 Type II Short





REPORT NUMBER: P290544

CATALOG NUMBER: AXCS4A-C-GRF

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1870.8 | 1870.8 | 1870.8 | 1870.8 | 1870.8 | 1870.8 | 1870.8 | 1870.8 | 1870.8 | 1870.8 | 1870.8 |
| 2.5°  | 1977.4 | 1966.5 | 1962.5 | 1951.5 | 1947.5 | 1936.6 | 1925.6 | 1911.6 | 1894.7 | 1881.7 | 1870.8 |
| 5°    | 2077.1 | 2068.1 | 2062.1 | 2048.2 | 2031.2 | 2005.3 | 1984.4 | 1956.5 | 1920.6 | 1892.7 | 1873.8 |
| 7.5°  | 2169.8 | 2160.8 | 2147.9 | 2121.9 | 2102.0 | 2069.1 | 2033.2 | 1988.4 | 1937.6 | 1893.7 | 1865.8 |
| 10°   | 2238.6 | 2232.6 | 2216.6 | 2187.7 | 2159.8 | 2114.0 | 2066.1 | 2007.3 | 1941.5 | 1876.8 | 1844.9 |
| 12.5° | 2313.3 | 2307.3 | 2288.4 | 2256.5 | 2215.6 | 2160.8 | 2102.0 | 2028.3 | 1948.5 | 1866.8 | 1823.9 |
| 15°   | 2389.1 | 2384.1 | 2364.1 | 2326.3 | 2276.4 | 2214.6 | 2138.9 | 2050.2 | 1954.5 | 1856.8 | 1806.0 |
| 17.5° | 2444.9 | 2439.9 | 2421.9 | 2378.1 | 2325.3 | 2249.5 | 2162.8 | 2062.1 | 1947.5 | 1833.9 | 1777.1 |
| 20°   | 2484.7 | 2478.8 | 2460.8 | 2411.0 | 2352.2 | 2269.5 | 2167.8 | 2054.2 | 1925.6 | 1801.0 | 1737.2 |
| 22.5° | 2505.7 | 2504.7 | 2487.7 | 2431.9 | 2368.1 | 2276.4 | 2167.8 | 2040.2 | 1900.7 | 1765.1 | 1693.4 |
| 25°   | 2521.6 | 2525.6 | 2505.7 | 2447.9 | 2382.1 | 2278.4 | 2162.8 | 2022.3 | 1875.8 | 1722.3 | 1646.5 |
| 27.5° | 2527.6 | 2533.6 | 2511.7 | 2455.8 | 2382.1 | 2274.4 | 2150.9 | 1999.4 | 1843.9 | 1676.4 | 1595.7 |
| 30°   | 2514.6 | 2519.6 | 2496.7 | 2444.9 | 2366.1 | 2256.5 | 2121.9 | 1964.5 | 1799.0 | 1621.6 | 1535.9 |
| 32.5° | 2481.8 | 2488.7 | 2462.8 | 2413.0 | 2335.2 | 2220.6 | 2083.1 | 1916.6 | 1745.2 | 1560.8 | 1471.1 |
| 35°   | 2439.9 | 2439.9 | 2418.0 | 2371.1 | 2291.4 | 2172.8 | 2034.2 | 1862.8 | 1684.4 | 1492.0 | 1401.3 |
| 37.5° | 2376.1 | 2380.1 | 2358.2 | 2314.3 | 2233.6 | 2114.0 | 1974.4 | 1802.0 | 1617.6 | 1423.3 | 1330.6 |
| 40°   | 2298.4 | 2303.3 | 2280.4 | 2240.6 | 2161.8 | 2048.2 | 1899.7 | 1732.2 | 1541.9 | 1348.5 | 1256.8 |
| 42.5° | 2211.6 | 2205.7 | 2189.7 | 2147.9 | 2072.1 | 1962.5 | 1814.0 | 1649.5 | 1462.1 | 1269.8 | 1178.1 |
| 45°   | 2099.0 | 2092.0 | 2081.1 | 2035.2 | 1970.5 | 1860.8 | 1723.3 | 1558.8 | 1373.4 | 1185.1 | 1096.4 |
| 47.5° | 1979.4 | 1967.5 | 1960.5 | 1918.6 | 1856.8 | 1752.2 | 1617.6 | 1457.2 | 1281.7 | 1100.3 | 1016.6 |
| 50°   | 1838.9 | 1831.9 | 1817.0 | 1788.1 | 1730.2 | 1638.6 | 1499.0 | 1354.5 | 1181.1 | 1011.6 | 933.9  |
| 52.5° | 1694.4 | 1687.4 | 1674.4 | 1650.5 | 1595.7 | 1512.0 | 1383.4 | 1246.9 | 1087.4 | 923.9  | 851.2  |
| 55°   | 1548.9 | 1536.9 | 1525.9 | 1508.0 | 1459.1 | 1376.4 | 1269.8 | 1136.2 | 988.7  | 840.2  | 772.4  |
| 57.5° | 1397.4 | 1388.4 | 1379.4 | 1363.5 | 1319.6 | 1249.8 | 1147.2 | 1025.6 | 892.0  | 756.5  | 694.7  |
| 60°   | 1248.8 | 1240.9 | 1233.9 | 1220.9 | 1180.1 | 1118.3 | 1026.6 | 916.0  | 792.4  | 677.7  | 618.9  |
| 62.5° | 1103.3 | 1100.3 | 1090.4 | 1079.4 | 1041.5 | 989.7  | 907.0  | 809.3  | 704.7  | 598.0  | 546.2  |
| 65°   | 961.8  | 950.8  | 952.8  | 943.9  | 910.0  | 864.1  | 790.4  | 703.7  | 616.9  | 522.3  | 476.4  |
| 67.5° | 825.3  | 822.3  | 813.3  | 806.3  | 782.4  | 742.5  | 677.7  | 605.0  | 532.2  | 449.5  | 409.6  |
| 70°   | 693.7  | 692.7  | 686.7  | 679.7  | 658.8  | 625.9  | 572.1  | 511.3  | 445.5  | 378.7  | 345.9  |
| 72.5° | 569.1  | 568.1  | 562.1  | 557.1  | 539.2  | 514.3  | 474.4  | 419.6  | 370.8  | 312.0  | 288.0  |
| 75°   | 452.5  | 451.5  | 445.5  | 441.5  | 428.6  | 409.6  | 377.7  | 332.9  | 295.0  | 247.2  | 227.2  |
| 77.5° | 341.9  | 341.9  | 340.9  | 333.9  | 323.9  | 309.0  | 286.0  | 254.2  | 221.3  | 186.4  | 172.4  |
| 80°   | 240.2  | 238.2  | 238.2  | 233.2  | 225.3  | 216.3  | 199.3  | 178.4  | 155.5  | 130.6  | 121.6  |
| 82.5° | 151.5  | 150.5  | 149.5  | 145.5  | 140.5  | 135.5  | 124.6  | 111.6  | 97.7   | 81.7   | 75.7   |
| 85°   | 76.7   | 76.7   | 75.7   | 72.8   | 69.8   | 67.8   | 59.8   | 55.8   | 48.8   | 40.9   | 37.9   |
| 87.5° | 22.9   | 20.9   | 22.9   | 20.9   | 19.9   | 19.9   | 16.9   | 15.9   | 14.0   | 11.0   | 11.0   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |



REPORT NUMBER: P290544  
 CATALOG NUMBER: AXCS4A-C-GRF

**CANDELA DISTRIBUTION (continued):**

|       | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1870.8 | 1870.8 | 1870.8 | 1870.8 | 1870.8 | 1870.8 | 1870.8 | 1870.8 | 1870.8 | 1870.8 |
| 2.5°  | 1861.8 | 1838.9 | 1820.0 | 1800.0 | 1787.1 | 1772.1 | 1770.1 | 1761.1 | 1758.2 | 1752.2 |
| 5°    | 1856.8 | 1814.0 | 1785.1 | 1750.2 | 1724.3 | 1698.4 | 1687.4 | 1675.4 | 1670.4 | 1660.5 |
| 7.5°  | 1841.9 | 1782.1 | 1737.2 | 1689.4 | 1650.5 | 1616.6 | 1599.7 | 1579.7 | 1572.8 | 1567.8 |
| 10°   | 1812.0 | 1738.2 | 1677.4 | 1615.6 | 1565.8 | 1524.9 | 1499.0 | 1475.1 | 1461.1 | 1462.1 |
| 12.5° | 1784.1 | 1696.4 | 1622.6 | 1545.9 | 1487.1 | 1436.2 | 1404.3 | 1378.4 | 1366.5 | 1364.5 |
| 15°   | 1757.2 | 1653.5 | 1566.8 | 1481.1 | 1408.3 | 1358.5 | 1314.6 | 1284.7 | 1270.8 | 1273.8 |
| 17.5° | 1719.3 | 1601.7 | 1503.0 | 1408.3 | 1328.6 | 1268.8 | 1219.9 | 1191.0 | 1171.1 | 1164.1 |
| 20°   | 1673.4 | 1541.9 | 1429.2 | 1328.6 | 1242.9 | 1172.1 | 1120.3 | 1090.4 | 1070.4 | 1064.5 |
| 22.5° | 1620.6 | 1479.1 | 1356.5 | 1246.9 | 1153.2 | 1080.4 | 1026.6 | 993.7  | 974.8  | 967.8  |
| 25°   | 1566.8 | 1415.3 | 1284.7 | 1169.1 | 1073.4 | 993.7  | 937.9  | 903.0  | 884.1  | 875.1  |
| 27.5° | 1513.0 | 1351.5 | 1212.0 | 1092.4 | 991.7  | 916.0  | 855.2  | 819.3  | 798.3  | 798.3  |
| 30°   | 1448.2 | 1281.7 | 1138.2 | 1014.6 | 912.0  | 837.2  | 774.4  | 738.5  | 713.6  | 717.6  |
| 32.5° | 1379.4 | 1208.0 | 1063.5 | 938.9  | 835.2  | 760.5  | 697.7  | 662.8  | 640.9  | 635.9  |
| 35°   | 1309.6 | 1136.2 | 990.7  | 864.1  | 763.5  | 685.7  | 628.9  | 594.0  | 574.1  | 570.1  |
| 37.5° | 1238.9 | 1064.5 | 917.9  | 794.4  | 695.7  | 620.9  | 566.1  | 532.2  | 514.3  | 514.3  |
| 40°   | 1165.1 | 989.7  | 848.2  | 728.6  | 630.9  | 561.1  | 509.3  | 477.4  | 459.5  | 459.5  |
| 42.5° | 1088.4 | 918.9  | 781.4  | 663.8  | 572.1  | 508.3  | 458.5  | 428.6  | 410.6  | 410.6  |
| 45°   | 1008.6 | 848.2  | 713.6  | 605.0  | 518.3  | 455.5  | 410.6  | 381.7  | 367.8  | 368.8  |
| 47.5° | 930.9  | 779.4  | 651.8  | 549.2  | 469.4  | 410.6  | 368.8  | 342.9  | 329.9  | 328.9  |
| 50°   | 855.2  | 709.6  | 596.0  | 497.3  | 423.6  | 370.8  | 331.9  | 308.0  | 295.0  | 295.0  |
| 52.5° | 778.4  | 644.9  | 539.2  | 448.5  | 380.7  | 333.9  | 298.0  | 276.1  | 264.1  | 264.1  |
| 55°   | 703.7  | 582.1  | 485.4  | 403.7  | 344.9  | 299.0  | 267.1  | 246.2  | 235.2  | 235.2  |
| 57.5° | 631.9  | 521.3  | 435.6  | 360.8  | 308.0  | 269.1  | 236.2  | 219.3  | 210.3  | 209.3  |
| 60°   | 563.1  | 464.5  | 388.7  | 320.9  | 274.1  | 237.2  | 210.3  | 195.4  | 186.4  | 186.4  |
| 62.5° | 497.3  | 409.6  | 340.9  | 284.1  | 240.2  | 209.3  | 186.4  | 173.4  | 166.4  | 165.5  |
| 65°   | 433.6  | 357.8  | 298.0  | 248.2  | 210.3  | 183.4  | 163.5  | 150.5  | 144.5  | 144.5  |
| 67.5° | 372.8  | 309.0  | 256.1  | 211.3  | 181.4  | 158.5  | 141.5  | 130.6  | 124.6  | 125.6  |
| 70°   | 315.0  | 256.1  | 215.3  | 179.4  | 153.5  | 133.6  | 119.6  | 110.6  | 106.6  | 105.6  |
| 72.5° | 258.1  | 212.3  | 176.4  | 148.5  | 126.6  | 110.6  | 99.7   | 91.7   | 88.7   | 87.7   |
| 75°   | 203.3  | 166.4  | 139.5  | 117.6  | 100.7  | 87.7   | 78.7   | 72.8   | 70.8   | 69.8   |
| 77.5° | 153.5  | 123.6  | 103.7  | 88.7   | 75.7   | 66.8   | 59.8   | 54.8   | 52.8   | 52.8   |
| 80°   | 106.6  | 83.7   | 71.8   | 61.8   | 52.8   | 46.8   | 41.9   | 37.9   | 36.9   | 36.9   |
| 82.5° | 64.8   | 49.8   | 42.9   | 37.9   | 32.9   | 28.9   | 24.9   | 22.9   | 22.9   | 21.9   |
| 85°   | 30.9   | 22.9   | 20.9   | 17.9   | 15.0   | 13.0   | 12.0   | 11.0   | 10.0   | 10.0   |
| 87.5° | 8.0    | 6.0    | 5.0    | 4.0    | 3.0    | 3.0    | 2.0    | 2.0    | 2.0    | 2.0    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)