

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: P156826

Luminaire Tested: **AVM-F04-LED-E-U-T4-7050**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P156826  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33673)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: AVM-F04-LED-E-U-T4-7050  
Description: VISION SITE MEDIUM LED LUMINAIRE  
(4) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 SHORT  
Light Source: (28) 5000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10239.6 lumens  
Efficiency: N/A  
Efficacy: 100.2 lumens/watt  
Luminous Opening: Rectangular (W 0.67' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Semi-Cutoff  
BUG Rating: B2 - U0 - G2

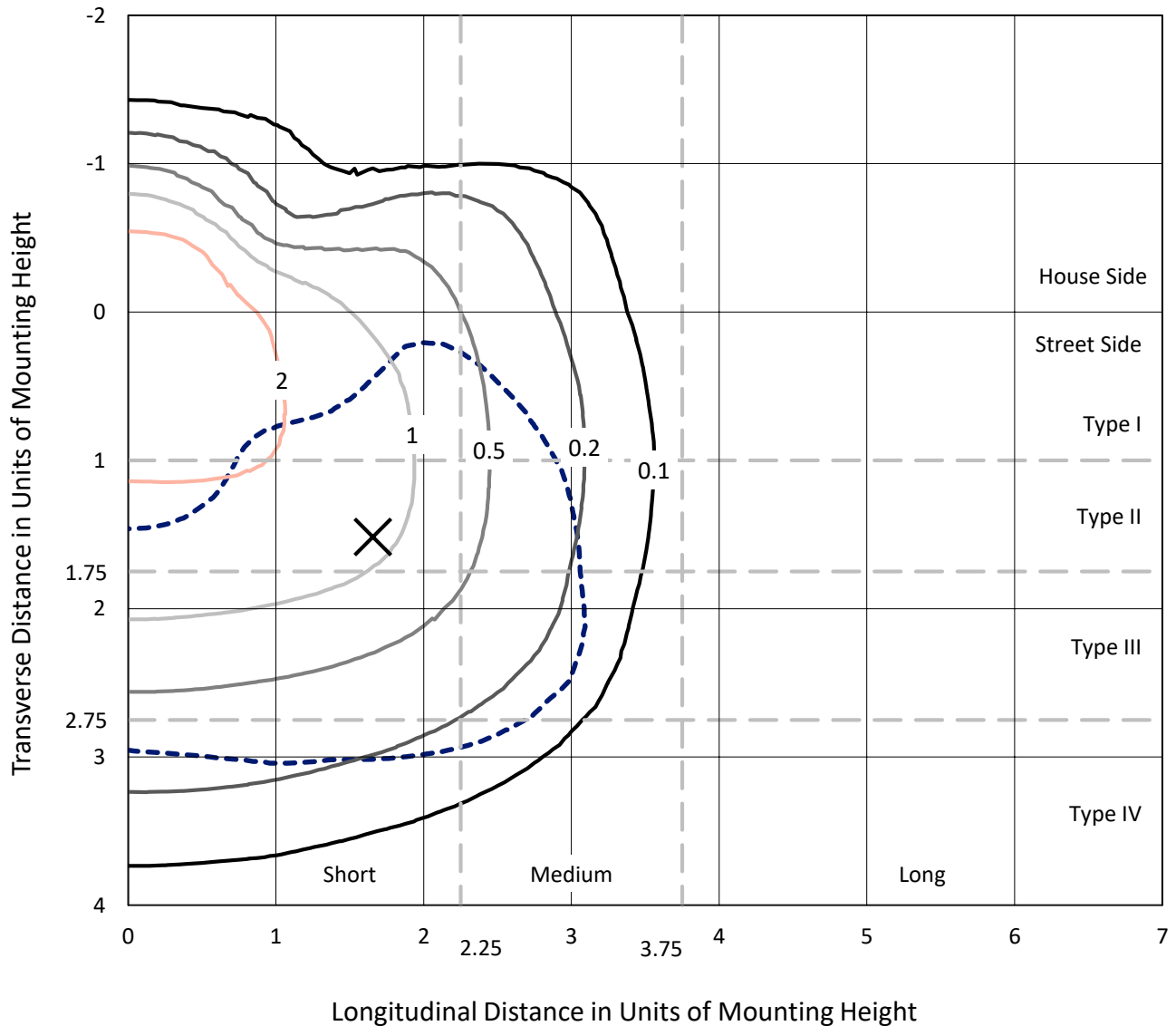
Input Watts (W): 102.2  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

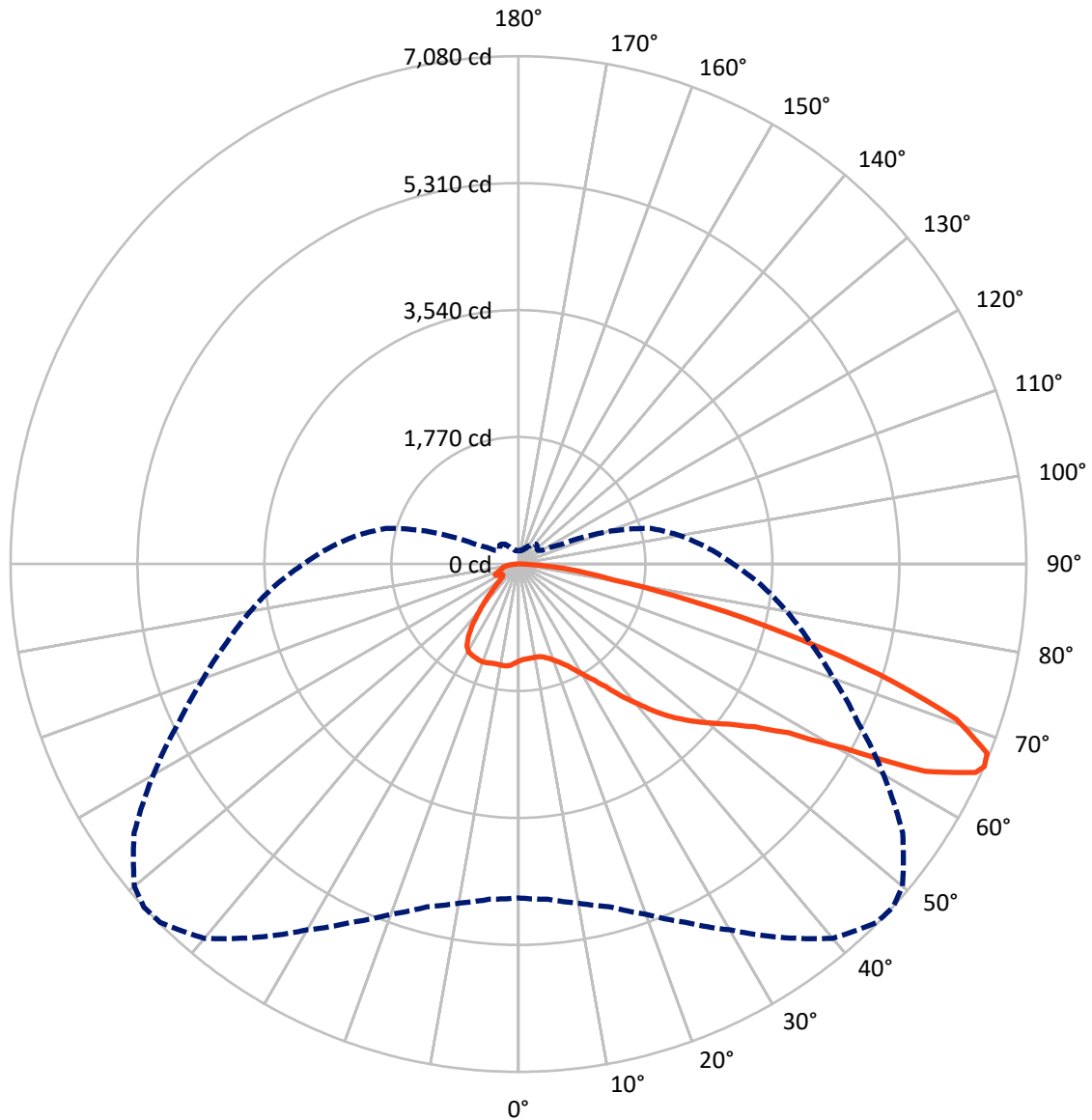
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 3.5 fc  
 Type IV - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 47.5-Deg Lateral    - - - Horizontal Cone Through 66-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 2184.9   | 0.0    | 2184.9  |
|                    | % Fixture | 21.3     | 0.0    | 21.3    |
| <b>Street Side</b> | Lumens    | 8054.7   | 0.0    | 8054.7  |
|                    | % Fixture | 78.7     | 0.0    | 78.7    |
| <b>Total</b>       | Lumens    | 10239.6  | 0.0    | 10239.6 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 131.1   | 1.3       |
| 10°-20°   | 397.9   | 3.9       |
| 20°-30°   | 685.4   | 6.7       |
| 30°-40°   | 1037.0  | 10.1      |
| 40°-50°   | 1344.0  | 13.1      |
| 50°-60°   | 1853.0  | 18.1      |
| 60°-70°   | 2879.0  | 28.1      |
| 70°-80°   | 1674.1  | 16.3      |
| 80°-90°   | 238.1   | 2.3       |
| 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°    | 10239.6 | 100.0     |
| 0°-180°   | 10239.6 | 100.0     |



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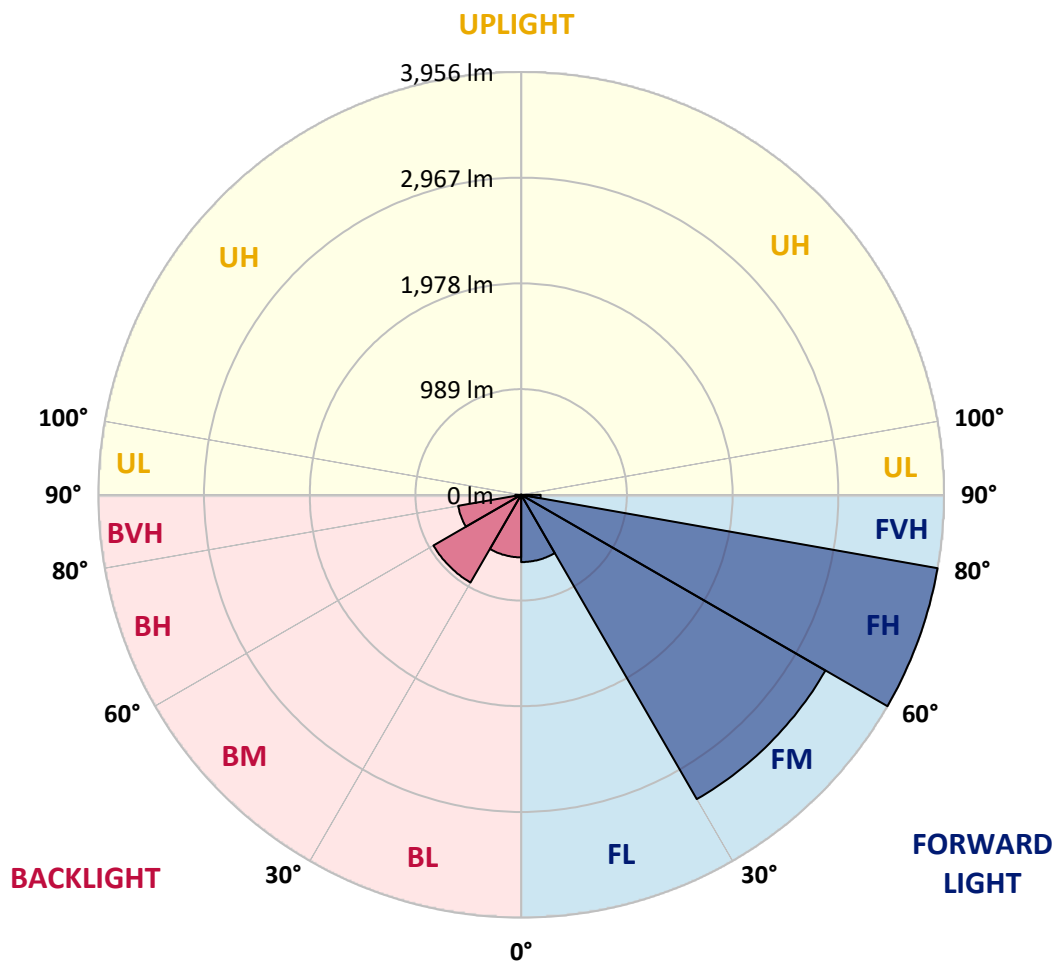
CATALOG NUMBER: AVM-F04-LED-E-U-T4-7050

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

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 629.5  | 6.1       |                         |      |         |
| FM   | (30°-60°)   | 3286.9 | 32.1      |                         |      |         |
| FH   | (60°-80°)   | 3955.6 | 38.6      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 182.7  | 1.8       |                         |      | G2/225  |
| BL   | (0°-30°)    | 584.8  | 5.7       | B2/1000                 |      |         |
| BM   | (30°-60°)   | 947.1  | 9.2       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 597.6  | 5.8       | B2/1000                 |      | G2/1000 |
| BVH  | (80°-90°)   | 55.4   | 0.5       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B2-U0-G2**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 47.5°  |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1349.7 | 1349.7 | 1349.7 | 1349.7 | 1349.7 | 1349.7 | 1349.7 | 1349.7 | 1349.7 | 1349.7 | 1349.7 |
| 2.5°  | 1324.8 | 1329.3 | 1326.0 | 1327.1 | 1327.1 | 1328.2 | 1328.2 | 1329.3 | 1328.2 | 1331.6 | 1333.9 |
| 5°    | 1301.1 | 1303.4 | 1302.2 | 1304.5 | 1306.8 | 1311.3 | 1310.1 | 1315.8 | 1316.9 | 1320.3 | 1326.0 |
| 7.5°  | 1292.1 | 1289.8 | 1290.9 | 1294.3 | 1296.6 | 1298.8 | 1301.1 | 1305.6 | 1309.0 | 1316.9 | 1321.4 |
| 10°   | 1301.1 | 1300.0 | 1301.1 | 1303.4 | 1303.4 | 1304.5 | 1302.2 | 1306.8 | 1309.0 | 1315.8 | 1320.3 |
| 12.5° | 1338.4 | 1338.4 | 1336.1 | 1336.1 | 1333.9 | 1331.6 | 1326.0 | 1322.6 | 1321.4 | 1322.6 | 1324.8 |
| 15°   | 1398.2 | 1396.0 | 1391.5 | 1388.1 | 1383.6 | 1375.7 | 1367.7 | 1361.0 | 1356.5 | 1349.7 | 1347.4 |
| 17.5° | 1457.0 | 1453.6 | 1449.1 | 1444.5 | 1438.9 | 1431.0 | 1418.6 | 1410.7 | 1398.2 | 1390.3 | 1385.8 |
| 20°   | 1524.7 | 1518.0 | 1512.3 | 1506.7 | 1495.4 | 1493.1 | 1480.7 | 1467.1 | 1452.5 | 1434.4 | 1432.1 |
| 22.5° | 1612.8 | 1601.5 | 1594.8 | 1591.4 | 1580.1 | 1576.7 | 1556.4 | 1537.2 | 1519.1 | 1495.4 | 1489.7 |
| 25°   | 1702.1 | 1690.8 | 1687.4 | 1682.9 | 1675.0 | 1670.4 | 1651.2 | 1629.8 | 1606.1 | 1573.3 | 1566.5 |
| 27.5° | 1789.0 | 1790.2 | 1781.1 | 1784.5 | 1782.2 | 1774.3 | 1755.1 | 1733.7 | 1715.6 | 1677.2 | 1669.3 |
| 30°   | 1897.4 | 1890.7 | 1886.2 | 1892.9 | 1885.0 | 1886.2 | 1869.2 | 1857.9 | 1828.6 | 1806.0 | 1790.2 |
| 32.5° | 2010.4 | 2009.3 | 2016.0 | 2020.6 | 2019.4 | 2017.2 | 2003.6 | 1992.3 | 1966.3 | 1933.6 | 1926.8 |
| 35°   | 2165.1 | 2171.9 | 2177.5 | 2197.9 | 2197.9 | 2212.6 | 2199.0 | 2185.5 | 2155.0 | 2115.4 | 2101.9 |
| 37.5° | 2270.2 | 2272.4 | 2295.0 | 2322.1 | 2356.0 | 2387.6 | 2396.7 | 2400.0 | 2387.6 | 2358.3 | 2337.9 |
| 40°   | 2366.2 | 2370.7 | 2406.8 | 2448.6 | 2498.3 | 2560.4 | 2597.7 | 2614.6 | 2618.0 | 2604.5 | 2560.4 |
| 42.5° | 2462.2 | 2468.9 | 2506.2 | 2567.2 | 2636.1 | 2715.2 | 2780.7 | 2822.5 | 2846.2 | 2846.2 | 2820.2 |
| 45°   | 2574.0 | 2583.0 | 2623.7 | 2690.3 | 2770.5 | 2869.9 | 2960.2 | 3040.4 | 3078.8 | 3081.1 | 3056.2 |
| 47.5° | 2706.1 | 2714.0 | 2761.5 | 2829.2 | 2911.7 | 3012.2 | 3126.3 | 3217.8 | 3288.9 | 3293.4 | 3273.1 |
| 50°   | 2876.7 | 2888.0 | 2927.5 | 2988.5 | 3073.2 | 3174.8 | 3288.9 | 3416.5 | 3491.1 | 3509.2 | 3487.7 |
| 52.5° | 3102.6 | 3104.8 | 3137.6 | 3194.0 | 3276.5 | 3373.6 | 3494.5 | 3633.4 | 3731.7 | 3746.3 | 3711.3 |
| 55°   | 3414.3 | 3410.9 | 3432.4 | 3493.3 | 3555.5 | 3631.1 | 3756.5 | 3912.4 | 4021.9 | 4044.5 | 4008.4 |
| 57.5° | 3837.8 | 3834.4 | 3852.5 | 3867.2 | 3983.5 | 4056.9 | 4180.0 | 4329.1 | 4435.3 | 4500.8 | 4438.7 |
| 60°   | 4494.0 | 4490.6 | 4520.0 | 4605.8 | 4692.8 | 4800.1 | 4919.8 | 5098.3 | 5247.4 | 5266.6 | 5205.6 |
| 62.5° | 4969.5 | 4986.5 | 5050.8 | 5151.3 | 5327.5 | 5537.6 | 5756.7 | 5991.6 | 6297.7 | 6394.9 | 6365.5 |
| 65°   | 4803.5 | 4837.4 | 4926.6 | 5079.1 | 5314.0 | 5604.3 | 5947.6 | 6373.4 | 6783.4 | 7012.7 | 7005.9 |
| 66°   | 4654.4 | 4691.7 | 4801.2 | 4948.1 | 5196.5 | 5513.9 | 5888.9 | 6353.1 | 6811.6 | 7064.6 | 7080.4 |
| 67.5° | 4383.3 | 4425.1 | 4532.4 | 4706.4 | 4948.1 | 5285.8 | 5689.0 | 6193.8 | 6712.2 | 7007.0 | 7048.8 |
| 70°   | 3855.9 | 3903.3 | 3981.3 | 4124.7 | 4363.0 | 4664.6 | 5089.2 | 5541.0 | 6084.3 | 6422.0 | 6472.8 |
| 72.5° | 3223.4 | 3265.2 | 3352.2 | 3469.6 | 3665.0 | 3854.8 | 4187.9 | 4521.1 | 4909.7 | 5294.8 | 5257.5 |
| 75°   | 2314.2 | 2332.3 | 2384.2 | 2511.9 | 2616.9 | 2787.4 | 3055.1 | 3328.4 | 3593.9 | 3770.1 | 3794.9 |
| 77.5° | 1202.8 | 1250.3 | 1323.7 | 1464.9 | 1578.9 | 1732.6 | 1906.5 | 2112.0 | 2306.3 | 2467.8 | 2423.8 |
| 80°   | 787.2  | 807.5  | 873.1  | 945.3  | 1028.9 | 1127.2 | 1243.5 | 1320.3 | 1345.2 | 1335.0 | 1345.2 |
| 82.5° | 454.0  | 491.3  | 578.3  | 633.6  | 695.7  | 729.6  | 822.2  | 910.3  | 960.0  | 897.9  | 875.3  |
| 85°   | 57.6   | 74.5   | 234.9  | 295.9  | 338.8  | 389.7  | 417.9  | 471.0  | 439.3  | 393.0  | 478.9  |
| 87.5° | 12.4   | 11.3   | 15.8   | 33.9   | 35.0   | 29.4   | 55.3   | 58.7   | 36.1   | 18.1   | 22.6   |
| 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):**

|       | 50°    | 55°    | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    | 95°    | 100°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1349.7 | 1349.7 | 1349.7 | 1349.7 | 1349.7 | 1349.7 | 1349.7 | 1349.7 | 1349.7 | 1349.7 | 1349.7 |
| 2.5°  | 1336.1 | 1337.3 | 1339.5 | 1342.9 | 1345.2 | 1347.4 | 1349.7 | 1353.1 | 1355.3 | 1357.6 | 1362.1 |
| 5°    | 1330.5 | 1335.0 | 1339.5 | 1344.0 | 1349.7 | 1358.7 | 1364.4 | 1368.9 | 1373.4 | 1382.4 | 1385.8 |
| 7.5°  | 1327.1 | 1335.0 | 1341.8 | 1349.7 | 1358.7 | 1366.6 | 1376.8 | 1382.4 | 1389.2 | 1394.9 | 1401.6 |
| 10°   | 1324.8 | 1336.1 | 1342.9 | 1354.2 | 1364.4 | 1372.3 | 1383.6 | 1390.3 | 1398.2 | 1405.0 | 1408.4 |
| 12.5° | 1329.3 | 1335.0 | 1341.8 | 1353.1 | 1365.5 | 1376.8 | 1389.2 | 1394.9 | 1401.6 | 1407.3 | 1408.4 |
| 15°   | 1348.5 | 1348.5 | 1349.7 | 1358.7 | 1371.1 | 1380.2 | 1390.3 | 1396.0 | 1399.4 | 1402.8 | 1402.8 |
| 17.5° | 1383.6 | 1375.7 | 1370.0 | 1371.1 | 1379.0 | 1384.7 | 1390.3 | 1390.3 | 1388.1 | 1386.9 | 1384.7 |
| 20°   | 1424.2 | 1414.1 | 1402.8 | 1394.9 | 1392.6 | 1388.1 | 1384.7 | 1373.4 | 1364.4 | 1356.5 | 1350.8 |
| 22.5° | 1482.9 | 1467.1 | 1451.3 | 1436.6 | 1423.1 | 1406.1 | 1386.9 | 1364.4 | 1342.9 | 1328.2 | 1319.2 |
| 25°   | 1555.2 | 1542.8 | 1523.6 | 1501.0 | 1484.1 | 1452.5 | 1427.6 | 1394.9 | 1367.7 | 1348.5 | 1332.7 |
| 27.5° | 1658.0 | 1643.3 | 1625.3 | 1604.9 | 1580.1 | 1545.1 | 1514.6 | 1476.2 | 1443.4 | 1415.2 | 1394.9 |
| 30°   | 1785.6 | 1766.4 | 1752.9 | 1728.0 | 1711.1 | 1671.6 | 1641.1 | 1593.6 | 1530.4 | 1485.2 | 1457.0 |
| 32.5° | 1916.6 | 1895.2 | 1883.9 | 1864.7 | 1845.5 | 1821.8 | 1775.5 | 1702.1 | 1620.7 | 1547.3 | 1498.8 |
| 35°   | 2091.7 | 2069.1 | 2048.8 | 2031.9 | 2003.6 | 1959.6 | 1918.9 | 1830.8 | 1719.0 | 1616.2 | 1534.9 |
| 37.5° | 2312.0 | 2274.7 | 2223.9 | 2180.9 | 2131.2 | 2068.0 | 2005.9 | 1915.5 | 1787.9 | 1654.6 | 1546.2 |
| 40°   | 2546.9 | 2481.4 | 2409.1 | 2328.9 | 2243.1 | 2151.6 | 2080.4 | 1988.9 | 1845.5 | 1687.4 | 1538.3 |
| 42.5° | 2792.0 | 2688.1 | 2587.5 | 2474.6 | 2354.9 | 2246.4 | 2153.8 | 2053.3 | 1888.4 | 1696.4 | 1506.7 |
| 45°   | 3034.8 | 2918.5 | 2766.0 | 2618.0 | 2466.7 | 2332.3 | 2228.4 | 2115.4 | 1927.9 | 1699.8 | 1464.9 |
| 47.5° | 3235.8 | 3116.1 | 2942.2 | 2756.9 | 2577.4 | 2424.9 | 2302.9 | 2180.9 | 1981.0 | 1723.5 | 1454.7 |
| 50°   | 3448.2 | 3302.5 | 3109.3 | 2890.2 | 2686.9 | 2516.4 | 2386.5 | 2260.0 | 2055.6 | 1784.5 | 1487.5 |
| 52.5° | 3679.7 | 3512.5 | 3286.7 | 3041.6 | 2819.1 | 2628.2 | 2487.0 | 2357.1 | 2150.4 | 1870.3 | 1549.6 |
| 55°   | 3962.1 | 3757.6 | 3512.5 | 3235.8 | 2997.5 | 2786.3 | 2630.5 | 2476.8 | 2263.4 | 1972.0 | 1627.5 |
| 57.5° | 4393.5 | 4142.8 | 3867.2 | 3552.1 | 3287.8 | 3038.2 | 2851.8 | 2674.5 | 2438.4 | 2123.3 | 1733.7 |
| 60°   | 5173.9 | 4906.3 | 4548.2 | 4166.5 | 3855.9 | 3564.5 | 3291.2 | 3070.9 | 2780.7 | 2421.5 | 1968.6 |
| 62.5° | 6292.1 | 5936.3 | 5458.6 | 4924.3 | 4517.7 | 4097.6 | 3789.3 | 3461.7 | 3101.4 | 2714.0 | 2245.3 |
| 65°   | 6913.3 | 6481.8 | 5842.6 | 5222.5 | 4699.6 | 4243.3 | 3851.4 | 3471.9 | 3072.1 | 2701.6 | 2309.7 |
| 66°   | 6990.1 | 6540.6 | 5876.4 | 5223.6 | 4674.7 | 4206.0 | 3793.8 | 3400.7 | 2991.9 | 2638.4 | 2282.6 |
| 67.5° | 6958.4 | 6498.8 | 5814.3 | 5125.4 | 4567.4 | 4063.7 | 3637.9 | 3230.2 | 2822.5 | 2492.7 | 2192.2 |
| 70°   | 6440.0 | 6004.1 | 5332.1 | 4664.6 | 4134.9 | 3637.9 | 3231.3 | 2830.4 | 2456.5 | 2174.2 | 1952.8 |
| 72.5° | 5347.9 | 4975.2 | 4391.2 | 3867.2 | 3451.6 | 3041.6 | 2697.1 | 2314.2 | 1998.0 | 1789.0 | 1658.0 |
| 75°   | 3860.4 | 3634.5 | 3102.6 | 2802.1 | 2437.3 | 2165.1 | 1830.8 | 1603.8 | 1376.8 | 1275.1 | 1252.5 |
| 77.5° | 2438.4 | 2134.6 | 1796.9 | 1479.6 | 1216.4 | 1008.6 | 785.0  | 666.4  | 555.7  | 544.4  | 657.3  |
| 80°   | 1234.5 | 1111.4 | 856.1  | 682.2  | 573.8  | 464.2  | 367.1  | 277.8  | 194.3  | 233.8  | 280.1  |
| 82.5° | 808.7  | 674.3  | 528.6  | 434.8  | 378.4  | 314.0  | 244.0  | 169.4  | 124.2  | 140.0  | 192.0  |
| 85°   | 437.1  | 372.7  | 300.4  | 237.2  | 192.0  | 171.7  | 115.2  | 81.3   | 80.2   | 85.8   | 109.6  |
| 87.5° | 31.6   | 31.6   | 24.8   | 22.6   | 27.1   | 22.6   | 20.3   | 20.3   | 19.2   | 20.3   | 27.1   |
| 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):**

|       | 105°   | 110°   | 115°   | 120°   | 125°   | 130°   | 135°   | 140°   | 145°   | 150°   | 155°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1349.7 | 1349.7 | 1349.7 | 1349.7 | 1349.7 | 1349.7 | 1349.7 | 1349.7 | 1349.7 | 1349.7 | 1349.7 |
| 2.5°  | 1364.4 | 1367.7 | 1368.9 | 1374.5 | 1377.9 | 1380.2 | 1382.4 | 1382.4 | 1383.6 | 1386.9 | 1388.1 |
| 5°    | 1390.3 | 1396.0 | 1402.8 | 1407.3 | 1409.5 | 1416.3 | 1418.6 | 1418.6 | 1420.8 | 1425.3 | 1428.7 |
| 7.5°  | 1406.1 | 1414.1 | 1420.8 | 1423.1 | 1427.6 | 1429.9 | 1433.3 | 1435.5 | 1435.5 | 1440.0 | 1442.3 |
| 10°   | 1411.8 | 1416.3 | 1423.1 | 1423.1 | 1427.6 | 1427.6 | 1431.0 | 1432.1 | 1432.1 | 1436.6 | 1440.0 |
| 12.5° | 1411.8 | 1414.1 | 1419.7 | 1419.7 | 1423.1 | 1424.2 | 1428.7 | 1432.1 | 1433.3 | 1438.9 | 1443.4 |
| 15°   | 1405.0 | 1407.3 | 1411.8 | 1412.9 | 1420.8 | 1425.3 | 1435.5 | 1442.3 | 1442.3 | 1447.9 | 1450.2 |
| 17.5° | 1385.8 | 1391.5 | 1400.5 | 1409.5 | 1424.2 | 1434.4 | 1446.8 | 1452.5 | 1447.9 | 1444.5 | 1441.2 |
| 20°   | 1354.2 | 1364.4 | 1385.8 | 1408.4 | 1434.4 | 1447.9 | 1454.7 | 1449.1 | 1433.3 | 1417.4 | 1407.3 |
| 22.5° | 1322.6 | 1342.9 | 1379.0 | 1412.9 | 1442.3 | 1451.3 | 1447.9 | 1427.6 | 1401.6 | 1382.4 | 1368.9 |
| 25°   | 1337.3 | 1361.0 | 1396.0 | 1426.5 | 1445.7 | 1443.4 | 1429.9 | 1401.6 | 1373.4 | 1348.5 | 1326.0 |
| 27.5° | 1398.2 | 1424.2 | 1443.4 | 1453.6 | 1451.3 | 1435.5 | 1414.1 | 1382.4 | 1348.5 | 1315.8 | 1284.2 |
| 30°   | 1455.8 | 1469.4 | 1473.9 | 1466.0 | 1447.9 | 1422.0 | 1394.9 | 1358.7 | 1313.5 | 1272.9 | 1236.7 |
| 32.5° | 1481.8 | 1468.3 | 1446.8 | 1425.3 | 1396.0 | 1373.4 | 1336.1 | 1296.6 | 1240.1 | 1191.6 | 1155.4 |
| 35°   | 1481.8 | 1427.6 | 1373.4 | 1328.2 | 1284.2 | 1255.9 | 1213.0 | 1159.9 | 1108.0 | 1067.3 | 1039.1 |
| 37.5° | 1449.1 | 1345.2 | 1255.9 | 1182.5 | 1127.2 | 1096.7 | 1032.3 | 984.9  | 940.8  | 927.3  | 909.2  |
| 40°   | 1389.2 | 1235.6 | 1106.8 | 1010.8 | 940.8  | 895.6  | 831.3  | 798.5  | 781.6  | 774.8  | 771.4  |
| 42.5° | 1309.0 | 1113.6 | 941.9  | 823.4  | 747.7  | 696.9  | 653.9  | 633.6  | 632.5  | 631.4  | 631.4  |
| 45°   | 1223.2 | 982.6  | 781.6  | 640.4  | 573.8  | 528.6  | 508.2  | 500.3  | 507.1  | 506.0  | 507.1  |
| 47.5° | 1170.1 | 883.2  | 634.7  | 484.5  | 433.7  | 404.3  | 394.2  | 397.6  | 403.2  | 400.9  | 400.9  |
| 50°   | 1163.3 | 832.4  | 536.5  | 377.2  | 338.8  | 324.1  | 321.9  | 321.9  | 325.3  | 323.0  | 321.9  |
| 52.5° | 1188.2 | 824.5  | 485.7  | 324.1  | 293.7  | 281.2  | 279.0  | 277.8  | 276.7  | 269.9  | 264.3  |
| 55°   | 1231.1 | 842.6  | 471.0  | 310.6  | 279.0  | 265.4  | 262.0  | 259.8  | 255.3  | 246.2  | 236.1  |
| 57.5° | 1316.9 | 899.0  | 484.5  | 317.4  | 283.5  | 272.2  | 268.8  | 268.8  | 259.8  | 245.1  | 230.4  |
| 60°   | 1523.6 | 1042.5 | 539.9  | 343.3  | 304.9  | 293.7  | 295.9  | 294.8  | 281.2  | 259.8  | 237.2  |
| 62.5° | 1790.2 | 1230.0 | 612.2  | 379.5  | 332.1  | 329.8  | 341.1  | 338.8  | 316.2  | 283.5  | 250.7  |
| 65°   | 1913.3 | 1318.0 | 632.5  | 387.4  | 337.7  | 347.9  | 370.5  | 368.2  | 340.0  | 294.8  | 253.0  |
| 66°   | 1915.5 | 1318.0 | 623.4  | 380.6  | 329.8  | 342.2  | 364.8  | 363.7  | 335.4  | 290.3  | 248.5  |
| 67.5° | 1869.2 | 1281.9 | 597.5  | 367.1  | 314.0  | 323.0  | 343.3  | 342.2  | 316.2  | 279.0  | 239.4  |
| 70°   | 1695.3 | 1147.5 | 530.8  | 343.3  | 292.5  | 288.0  | 294.8  | 290.3  | 273.3  | 247.3  | 220.2  |
| 72.5° | 1452.5 | 963.4  | 463.1  | 325.3  | 277.8  | 259.8  | 255.3  | 251.9  | 238.3  | 223.6  | 206.7  |
| 75°   | 1144.1 | 762.4  | 406.6  | 311.7  | 264.3  | 240.6  | 232.7  | 228.1  | 219.1  | 208.9  | 195.4  |
| 77.5° | 705.9  | 545.5  | 354.6  | 293.7  | 254.1  | 230.4  | 224.8  | 218.0  | 204.4  | 192.0  | 181.8  |
| 80°   | 315.1  | 337.7  | 291.4  | 256.4  | 227.0  | 205.6  | 196.5  | 186.4  | 172.8  | 164.9  | 159.3  |
| 82.5° | 210.1  | 218.0  | 211.2  | 192.0  | 171.7  | 154.7  | 141.2  | 141.2  | 138.9  | 132.1  | 129.9  |
| 85°   | 134.4  | 135.5  | 131.0  | 118.6  | 110.7  | 100.5  | 94.9   | 96.0   | 100.5  | 99.4   | 98.3   |
| 87.5° | 30.5   | 30.5   | 36.1   | 33.9   | 39.5   | 41.8   | 45.2   | 48.6   | 55.3   | 55.3   | 58.7   |
| 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):**

|       | 160°   | 165°   | 170°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1349.7 | 1349.7 | 1349.7 | 1349.7 | 1349.7 |
| 2.5°  | 1389.2 | 1391.5 | 1393.7 | 1390.3 | 1391.5 |
| 5°    | 1428.7 | 1427.6 | 1433.3 | 1429.9 | 1432.1 |
| 7.5°  | 1441.2 | 1442.3 | 1446.8 | 1446.8 | 1447.9 |
| 10°   | 1442.3 | 1444.5 | 1450.2 | 1453.6 | 1455.8 |
| 12.5° | 1447.9 | 1452.5 | 1461.5 | 1463.7 | 1463.7 |
| 15°   | 1452.5 | 1454.7 | 1460.4 | 1462.6 | 1464.9 |
| 17.5° | 1436.6 | 1432.1 | 1434.4 | 1435.5 | 1434.4 |
| 20°   | 1397.1 | 1392.6 | 1391.5 | 1386.9 | 1389.2 |
| 22.5° | 1354.2 | 1341.8 | 1333.9 | 1324.8 | 1324.8 |
| 25°   | 1302.2 | 1283.0 | 1267.2 | 1251.4 | 1254.8 |
| 27.5° | 1253.7 | 1228.8 | 1213.0 | 1202.8 | 1200.6 |
| 30°   | 1206.2 | 1180.3 | 1165.6 | 1153.2 | 1153.2 |
| 32.5° | 1127.2 | 1109.1 | 1089.9 | 1082.0 | 1080.9 |
| 35°   | 1017.6 | 1006.3 | 990.5  | 987.1  | 981.5  |
| 37.5° | 894.5  | 891.1  | 877.6  | 876.4  | 870.8  |
| 40°   | 765.8  | 768.0  | 763.5  | 761.2  | 757.9  |
| 42.5° | 637.0  | 648.3  | 646.0  | 644.9  | 642.6  |
| 45°   | 513.9  | 521.8  | 522.9  | 526.3  | 532.0  |
| 47.5° | 404.3  | 406.6  | 408.9  | 407.7  | 408.9  |
| 50°   | 316.2  | 310.6  | 309.5  | 306.1  | 309.5  |
| 52.5° | 255.3  | 246.2  | 241.7  | 237.2  | 234.9  |
| 55°   | 224.8  | 215.7  | 211.2  | 208.9  | 206.7  |
| 57.5° | 216.9  | 207.8  | 201.0  | 196.5  | 195.4  |
| 60°   | 219.1  | 205.6  | 196.5  | 190.9  | 189.7  |
| 62.5° | 224.8  | 206.7  | 194.3  | 188.6  | 187.5  |
| 65°   | 223.6  | 204.4  | 193.1  | 186.4  | 185.2  |
| 66°   | 220.2  | 202.2  | 190.9  | 185.2  | 184.1  |
| 67.5° | 214.6  | 198.8  | 188.6  | 184.1  | 181.8  |
| 70°   | 204.4  | 194.3  | 186.4  | 180.7  | 178.5  |
| 72.5° | 195.4  | 187.5  | 180.7  | 175.1  | 173.9  |
| 75°   | 185.2  | 178.5  | 171.7  | 167.2  | 166.0  |
| 77.5° | 172.8  | 166.0  | 161.5  | 158.1  | 157.0  |
| 80°   | 152.5  | 148.0  | 143.4  | 138.9  | 138.9  |
| 82.5° | 126.5  | 123.1  | 118.6  | 115.2  | 114.1  |
| 85°   | 97.1   | 97.1   | 93.7   | 90.4   | 89.2   |
| 87.5° | 57.6   | 56.5   | 56.5   | 53.1   | 53.1   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)