

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: P144762

Luminaire Tested: **OVH-E03-LED-E-U-RW-7060**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P144762  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33700)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: OVH-E03-LED-E-U-RW-7060  
Description: OVH LED ROADWAY SMALL CUTOFF COBRAHEAD LUMINAIRE  
(3) LIGHTBARS WITH AccuLED OPTICS - RECTANGULAR WIDE  
Light Source: (63) 5700K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9246.3 lumens  
Efficiency: N/A  
Efficacy: 123.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type V - Medium - Full Cutoff  
BUG Rating: B3 - U0 - G1

Input Watts (W): 75.2  
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

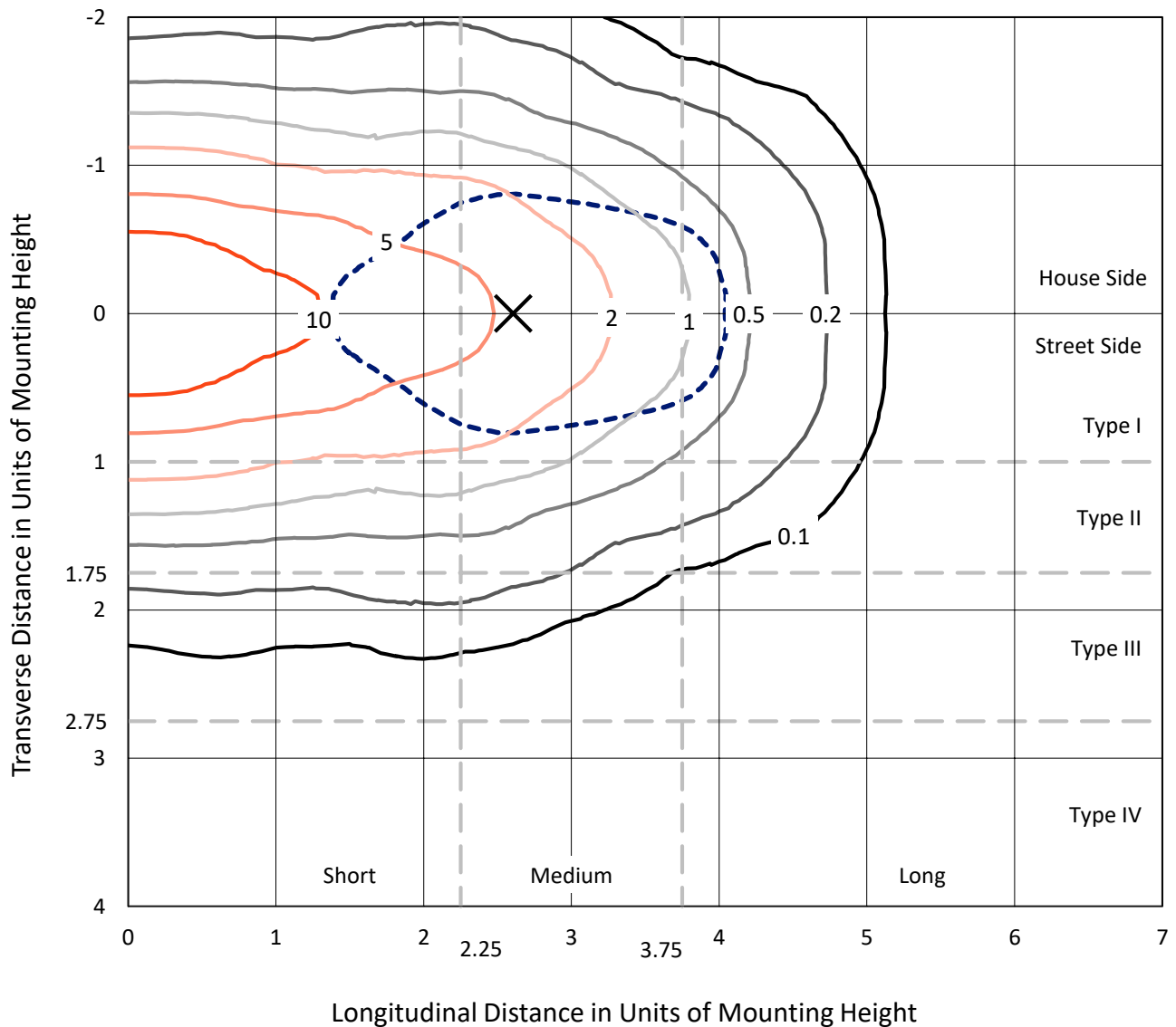


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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

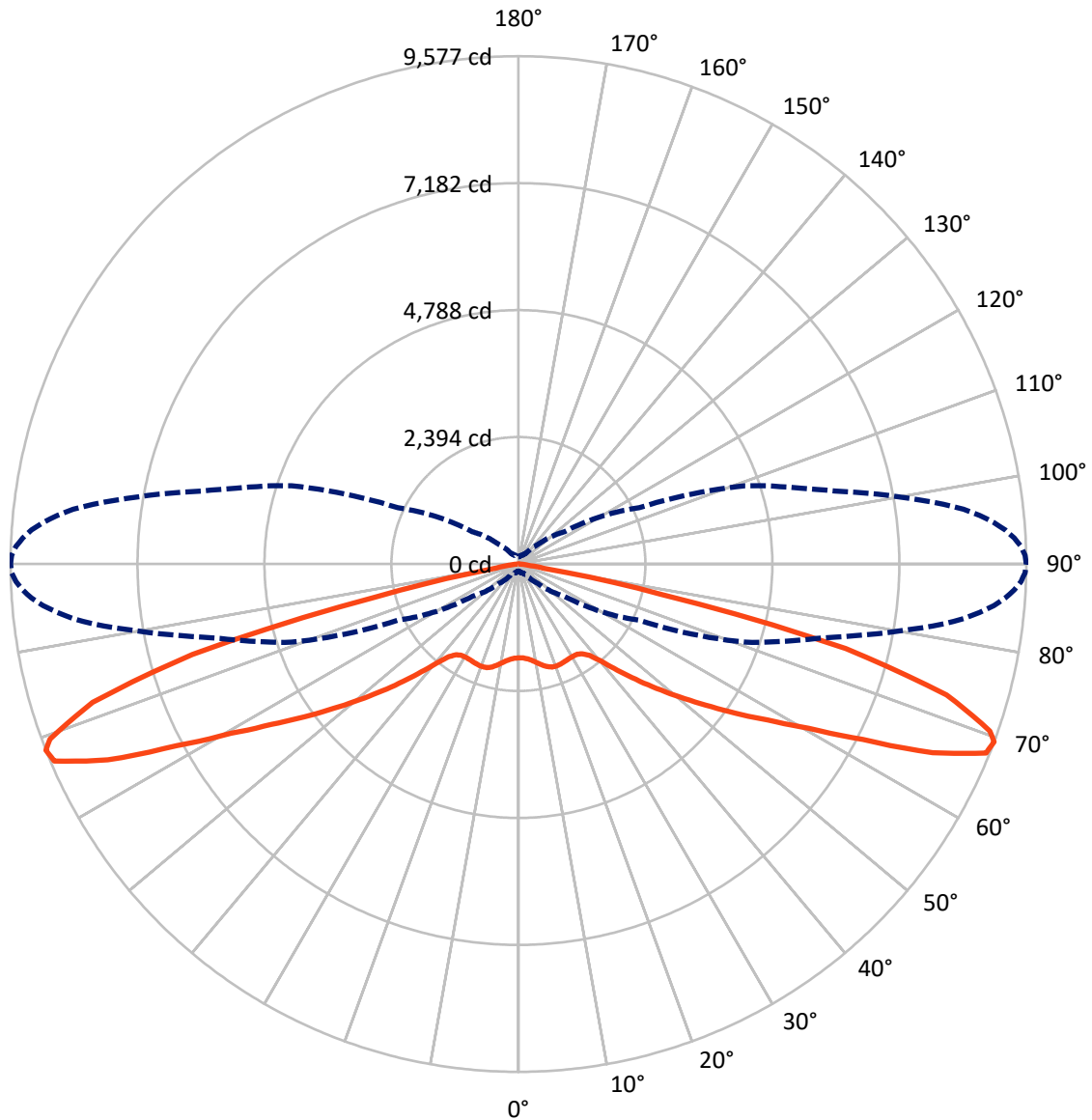


Based on 10 foot mounting height. Maximum calculated value = 18.1 fc  
 Type V - Medium - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 90-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 4623.1   | 0.0    | 4623.1 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Street Side</b> | Lumens    | 4623.1   | 0.0    | 4623.1 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Total</b>       | Lumens    | 9246.3   | 0.0    | 9246.3 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 173.2  | 1.9       |
| 10°-20°   | 545.6  | 5.9       |
| 20°-30°   | 883.6  | 9.6       |
| 30°-40°   | 1100.8 | 11.9      |
| 40°-50°   | 1370.4 | 14.8      |
| 50°-60°   | 1681.5 | 18.2      |
| 60°-70°   | 2073.8 | 22.4      |
| 70°-80°   | 1289.2 | 13.9      |
| 80°-90°   | 128.1  | 1.4       |
| 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°    | 9246.3 | 100.0     |
| 0°-180°   | 9246.3 | 100.0     |



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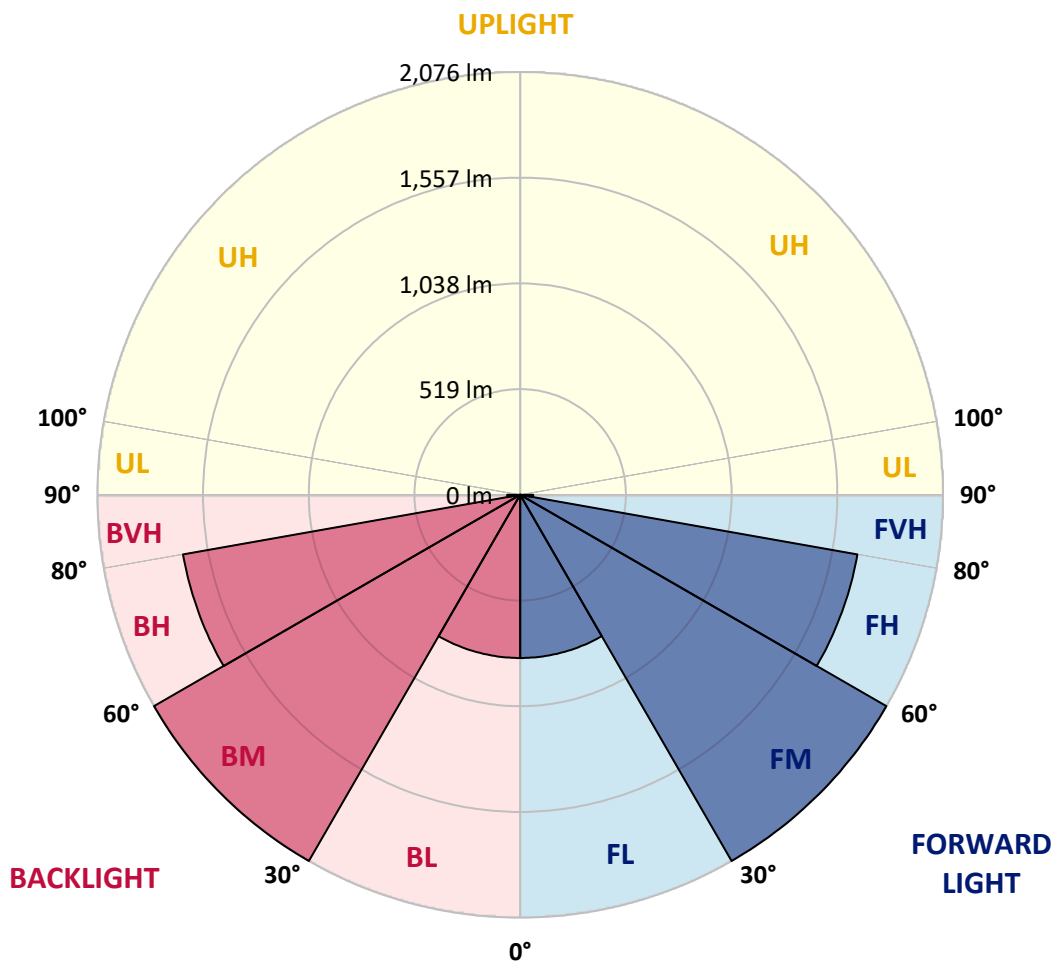
CATALOG NUMBER: OVH-E03-LED-E-U-RW-7060

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

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 801.2  | 8.7       |                         |      |         |
| FM   | (30°-60°)   | 2076.3 | 22.5      |                         |      |         |
| FH   | (60°-80°)   | 1681.5 | 18.2      |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 64.0   | 0.7       |                         |      | G1/100  |
| BL   | (0°-30°)    | 801.2  | 8.7       | B2/1000                 |      |         |
| BM   | (30°-60°)   | 2076.3 | 22.5      | B2/2500                 |      |         |
| BH   | (60°-80°)   | 1681.5 | 18.2      | B3/2500                 |      | G1/1800 |
| BVH  | (80°-90°)   | 64.0   | 0.7       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G1**

Type V Medium





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 66°    | 67°    | 68°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1770.6 | 1770.6 | 1770.6 | 1770.6 | 1770.6 | 1770.6 | 1770.6 | 1770.6 | 1770.6 | 1770.6 | 1770.6 |
| 2.5°  | 1775.2 | 1773.4 | 1776.8 | 1779.8 | 1779.0 | 1779.6 | 1778.4 | 1776.8 | 1776.9 | 1777.0 | 1777.2 |
| 5°    | 1789.1 | 1787.2 | 1790.4 | 1793.2 | 1794.0 | 1796.2 | 1796.8 | 1795.9 | 1796.3 | 1796.8 | 1797.2 |
| 7.5°  | 1805.8 | 1804.2 | 1808.2 | 1811.9 | 1819.0 | 1822.7 | 1826.4 | 1830.0 | 1830.4 | 1830.7 | 1831.0 |
| 10°   | 1821.4 | 1820.5 | 1827.0 | 1835.0 | 1846.4 | 1855.0 | 1865.4 | 1875.6 | 1876.4 | 1877.2 | 1878.0 |
| 12.5° | 1831.6 | 1831.6 | 1841.4 | 1855.9 | 1875.6 | 1893.2 | 1911.0 | 1928.2 | 1929.8 | 1931.5 | 1933.0 |
| 15°   | 1831.0 | 1832.2 | 1847.3 | 1873.8 | 1907.6 | 1938.7 | 1960.6 | 1979.4 | 1980.9 | 1982.4 | 1984.0 |
| 17.5° | 1818.4 | 1818.7 | 1840.2 | 1882.4 | 1935.4 | 1981.6 | 2009.8 | 2020.0 | 2020.6 | 2021.1 | 2021.7 |
| 20°   | 1783.0 | 1785.4 | 1815.9 | 1877.2 | 1956.9 | 2020.6 | 2047.4 | 2043.1 | 2042.2 | 2041.2 | 2040.3 |
| 22.5° | 1722.3 | 1725.4 | 1766.0 | 1848.2 | 1960.9 | 2045.8 | 2073.6 | 2054.2 | 2051.2 | 2048.2 | 2045.3 |
| 25°   | 1638.0 | 1643.2 | 1687.2 | 1792.6 | 1933.8 | 2053.2 | 2090.4 | 2059.4 | 2054.8 | 2050.2 | 2045.5 |
| 27.5° | 1540.4 | 1542.9 | 1594.9 | 1705.4 | 1870.6 | 2028.6 | 2098.2 | 2070.2 | 2064.4 | 2058.6 | 2052.8 |
| 30°   | 1427.4 | 1433.9 | 1488.1 | 1603.5 | 1781.8 | 1971.4 | 2095.1 | 2091.1 | 2084.6 | 2078.2 | 2071.7 |
| 32.5° | 1315.1 | 1320.6 | 1373.8 | 1498.2 | 1679.2 | 1891.6 | 2079.8 | 2122.8 | 2117.4 | 2112.0 | 2106.6 |
| 35°   | 1201.8 | 1208.6 | 1263.4 | 1397.0 | 1577.3 | 1801.2 | 2055.4 | 2168.0 | 2165.7 | 2163.4 | 2161.0 |
| 37.5° | 1102.4 | 1106.6 | 1160.6 | 1299.4 | 1488.1 | 1718.4 | 2023.7 | 2228.7 | 2234.0 | 2239.3 | 2244.6 |
| 40°   | 1001.1 | 1005.4 | 1061.8 | 1203.9 | 1405.8 | 1647.5 | 1994.4 | 2305.0 | 2319.5 | 2334.0 | 2348.5 |
| 42.5° | 903.8  | 907.5  | 962.0  | 1103.9 | 1314.4 | 1586.2 | 1976.9 | 2397.4 | 2425.2 | 2452.9 | 2480.7 |
| 45°   | 804.0  | 806.5  | 857.6  | 995.8  | 1210.1 | 1514.8 | 1972.3 | 2501.2 | 2541.2 | 2581.3 | 2621.4 |
| 47.5° | 705.8  | 711.7  | 764.3  | 895.5  | 1091.0 | 1412.6 | 1965.5 | 2616.0 | 2669.1 | 2722.2 | 2775.3 |
| 50°   | 612.0  | 618.4  | 672.6  | 797.0  | 975.8  | 1291.4 | 1931.0 | 2746.2 | 2810.9 | 2875.7 | 2940.5 |
| 52.5° | 516.2  | 522.7  | 576.9  | 695.7  | 869.0  | 1154.7 | 1835.0 | 2882.8 | 2959.9 | 3036.9 | 3113.9 |
| 55°   | 414.0  | 416.5  | 472.2  | 591.3  | 762.2  | 1040.2 | 1682.0 | 3008.1 | 3101.4 | 3194.7 | 3287.9 |
| 57.5° | 301.1  | 309.4  | 364.5  | 475.2  | 653.2  | 938.9  | 1487.4 | 3072.2 | 3188.6 | 3305.0 | 3421.4 |
| 60°   | 217.4  | 222.8  | 271.2  | 358.3  | 529.8  | 839.4  | 1314.8 | 3025.4 | 3180.8 | 3336.2 | 3491.6 |
| 62.5° | 171.8  | 178.0  | 215.2  | 270.0  | 409.8  | 730.2  | 1202.1 | 2897.0 | 3115.0 | 3333.0 | 3551.0 |
| 65°   | 152.0  | 157.6  | 192.1  | 219.2  | 313.4  | 617.8  | 1131.3 | 2769.9 | 3064.1 | 3358.3 | 3652.5 |
| 67.5° | 138.8  | 144.6  | 174.8  | 193.3  | 258.8  | 545.4  | 1097.7 | 2673.8 | 3013.6 | 3353.4 | 3693.2 |
| 69°   | 132.6  | 137.9  | 165.6  | 182.9  | 244.1  | 520.8  | 1061.7 | 2511.2 | 2848.1 | 3185.0 | 3522.0 |
| 70°   | 129.3  | 133.9  | 159.2  | 176.4  | 238.2  | 500.6  | 1008.4 | 2318.0 | 2643.1 | 2968.1 | 3293.2 |
| 72.5° | 119.8  | 122.8  | 144.0  | 160.1  | 218.0  | 399.6  | 760.6  | 1635.6 | 1911.1 | 2186.7 | 2462.2 |
| 75°   | 106.2  | 109.9  | 128.7  | 143.4  | 166.2  | 240.1  | 476.2  | 949.4  | 1138.2 | 1327.0 | 1515.8 |
| 77.5° | 91.1   | 95.4   | 110.8  | 134.2  | 133.9  | 156.4  | 289.0  | 545.2  | 636.9  | 728.7  | 820.4  |
| 80°   | 78.2   | 81.9   | 95.8   | 132.7  | 112.0  | 123.8  | 215.4  | 406.6  | 443.6  | 480.5  | 517.5  |
| 82.5° | 61.2   | 64.3   | 80.4   | 109.6  | 89.6   | 94.2   | 164.0  | 370.3  | 395.4  | 420.4  | 445.5  |
| 85°   | 38.5   | 39.7   | 58.5   | 75.8   | 63.7   | 57.0   | 105.6  | 285.0  | 303.3  | 321.5  | 339.7  |
| 87.5° | 15.4   | 18.8   | 28.3   | 27.1   | 27.4   | 22.8   | 34.2   | 102.8  | 112.2  | 121.5  | 130.9  |
| 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):**

|       | 69°    | 70°    | 71°    | 72°    | 73°    | 74°    | 75°    | 76°    | 77°    | 78°    | 79°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1770.6 | 1770.6 | 1770.6 | 1770.6 | 1770.6 | 1770.6 | 1770.6 | 1770.6 | 1770.6 | 1770.6 | 1770.6 |
| 2.5°  | 1777.3 | 1777.4 | 1776.8 | 1775.8 | 1776.8 | 1775.9 | 1776.2 | 1777.1 | 1776.8 | 1776.8 | 1776.2 |
| 5°    | 1797.6 | 1798.0 | 1798.0 | 1796.2 | 1797.2 | 1797.4 | 1797.8 | 1797.1 | 1797.4 | 1798.0 | 1796.8 |
| 7.5°  | 1831.3 | 1831.6 | 1832.6 | 1833.4 | 1832.8 | 1833.2 | 1833.8 | 1833.2 | 1832.2 | 1834.4 | 1832.8 |
| 10°   | 1878.8 | 1879.6 | 1879.6 | 1882.4 | 1881.2 | 1882.0 | 1884.8 | 1884.9 | 1883.4 | 1885.5 | 1884.8 |
| 12.5° | 1934.6 | 1936.2 | 1936.0 | 1935.6 | 1936.9 | 1937.8 | 1940.9 | 1941.5 | 1942.1 | 1945.5 | 1944.3 |
| 15°   | 1985.5 | 1987.0 | 1988.3 | 1988.9 | 1991.0 | 1991.6 | 1993.5 | 1994.8 | 1995.6 | 1996.9 | 1997.5 |
| 17.5° | 2022.2 | 2022.8 | 2024.6 | 2023.6 | 2026.8 | 2026.2 | 2028.3 | 2029.2 | 2030.2 | 2031.7 | 2032.6 |
| 20°   | 2039.4 | 2038.4 | 2038.8 | 2037.8 | 2037.8 | 2038.4 | 2038.8 | 2040.0 | 2039.4 | 2040.9 | 2042.2 |
| 22.5° | 2042.4 | 2039.4 | 2037.6 | 2035.4 | 2034.4 | 2032.6 | 2032.6 | 2033.2 | 2031.1 | 2032.6 | 2034.4 |
| 25°   | 2040.9 | 2036.3 | 2033.0 | 2029.2 | 2025.8 | 2022.8 | 2021.0 | 2020.3 | 2018.8 | 2018.8 | 2020.3 |
| 27.5° | 2047.0 | 2041.2 | 2036.3 | 2030.2 | 2025.8 | 2021.6 | 2017.6 | 2014.4 | 2011.4 | 2010.8 | 2010.8 |
| 30°   | 2065.2 | 2058.8 | 2053.2 | 2045.6 | 2038.8 | 2033.2 | 2027.7 | 2023.4 | 2017.6 | 2015.0 | 2012.3 |
| 32.5° | 2101.2 | 2095.8 | 2088.0 | 2081.2 | 2073.2 | 2066.5 | 2059.1 | 2052.4 | 2045.6 | 2039.4 | 2036.9 |
| 35°   | 2158.7 | 2156.4 | 2152.0 | 2147.4 | 2139.8 | 2131.1 | 2125.0 | 2117.0 | 2109.2 | 2100.4 | 2097.8 |
| 37.5° | 2249.9 | 2255.2 | 2252.7 | 2249.3 | 2247.2 | 2244.4 | 2236.0 | 2230.8 | 2225.6 | 2218.2 | 2216.7 |
| 40°   | 2362.9 | 2377.4 | 2391.8 | 2401.4 | 2398.0 | 2409.4 | 2411.2 | 2412.2 | 2407.6 | 2413.7 | 2415.0 |
| 42.5° | 2508.5 | 2536.2 | 2562.4 | 2581.4 | 2603.6 | 2620.3 | 2641.8 | 2651.0 | 2668.6 | 2686.8 | 2697.2 |
| 45°   | 2661.5 | 2701.6 | 2739.0 | 2778.2 | 2816.6 | 2858.8 | 2899.8 | 2928.8 | 2970.9 | 3002.3 | 3022.0 |
| 47.5° | 2828.5 | 2881.6 | 2926.6 | 2985.0 | 3040.8 | 3090.6 | 3162.4 | 3219.9 | 3271.4 | 3320.2 | 3371.7 |
| 50°   | 3005.2 | 3070.0 | 3125.4 | 3196.8 | 3264.6 | 3342.8 | 3426.8 | 3500.0 | 3580.7 | 3658.6 | 3727.8 |
| 52.5° | 3190.9 | 3268.0 | 3342.8 | 3416.0 | 3498.2 | 3583.2 | 3674.3 | 3780.2 | 3876.8 | 3994.2 | 4078.2 |
| 55°   | 3381.2 | 3474.5 | 3554.2 | 3630.9 | 3718.0 | 3812.2 | 3920.6 | 4045.8 | 4168.6 | 4297.0 | 4424.4 |
| 57.5° | 3537.8 | 3654.2 | 3741.4 | 3831.0 | 3924.8 | 4018.1 | 4152.6 | 4281.0 | 4436.8 | 4594.4 | 4753.8 |
| 60°   | 3647.0 | 3802.4 | 3908.0 | 4021.2 | 4129.8 | 4243.2 | 4388.2 | 4550.4 | 4745.2 | 4936.1 | 5152.8 |
| 62.5° | 3769.0 | 3987.0 | 4135.1 | 4286.2 | 4418.3 | 4554.4 | 4748.3 | 4935.2 | 5185.4 | 5405.2 | 5678.0 |
| 65°   | 3946.8 | 4241.0 | 4459.0 | 4662.7 | 4840.0 | 5025.4 | 5255.3 | 5489.0 | 5775.2 | 6079.0 | 6421.1 |
| 67.5° | 4033.0 | 4372.8 | 4658.1 | 4909.6 | 5136.2 | 5372.2 | 5609.6 | 5886.0 | 6208.6 | 6574.4 | 6949.9 |
| 69°   | 3858.8 | 4195.8 | 4523.9 | 4778.2 | 5016.7 | 5268.8 | 5522.8 | 5801.7 | 6119.4 | 6499.0 | 6897.0 |
| 70°   | 3618.3 | 3943.4 | 4292.1 | 4547.0 | 4787.7 | 5049.4 | 5308.0 | 5589.6 | 5893.4 | 6284.4 | 6687.0 |
| 72.5° | 2737.8 | 3013.4 | 3352.0 | 3621.3 | 3874.4 | 4138.8 | 4405.1 | 4649.5 | 4957.6 | 5333.8 | 5704.8 |
| 75°   | 1704.7 | 1893.5 | 2197.9 | 2468.5 | 2672.0 | 2898.6 | 3148.5 | 3380.0 | 3689.3 | 3956.0 | 4312.8 |
| 77.5° | 912.1  | 1003.8 | 1181.4 | 1375.4 | 1488.6 | 1599.2 | 1762.0 | 1887.6 | 2017.8 | 2172.0 | 2319.5 |
| 80°   | 554.4  | 591.4  | 652.0  | 693.8  | 678.2  | 632.9  | 618.4  | 573.2  | 589.5  | 561.8  | 541.8  |
| 82.5° | 470.5  | 495.6  | 532.6  | 557.8  | 539.3  | 467.0  | 385.1  | 324.2  | 281.0  | 239.8  | 203.8  |
| 85°   | 357.9  | 376.2  | 395.2  | 406.7  | 405.8  | 369.8  | 293.7  | 227.5  | 177.3  | 137.2  | 114.2  |
| 87.5° | 140.2  | 149.6  | 163.4  | 161.3  | 168.4  | 169.6  | 132.7  | 102.5  | 72.9   | 49.2   | 43.1   |
| 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):**

|       | 80°    | 81°    | 82°    | 83°    | 84°    | 85°    | 86°    | 87°    | 88°    | 89°    | 90°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1770.6 | 1770.6 | 1770.6 | 1770.6 | 1770.6 | 1770.6 | 1770.6 | 1770.6 | 1770.6 | 1770.6 | 1770.6 |
| 2.5°  | 1775.0 | 1774.6 | 1775.0 | 1775.9 | 1775.8 | 1776.5 | 1775.8 | 1776.2 | 1775.3 | 1774.3 | 1775.0 |
| 5°    | 1796.8 | 1796.2 | 1796.8 | 1797.4 | 1797.4 | 1796.8 | 1798.4 | 1798.4 | 1797.8 | 1796.8 | 1797.1 |
| 7.5°  | 1834.4 | 1834.6 | 1833.8 | 1836.8 | 1834.0 | 1834.4 | 1836.2 | 1835.9 | 1835.3 | 1835.6 | 1835.9 |
| 10°   | 1886.7 | 1886.4 | 1887.0 | 1888.9 | 1886.1 | 1888.0 | 1890.1 | 1890.7 | 1889.2 | 1889.2 | 1889.5 |
| 12.5° | 1944.6 | 1947.0 | 1947.4 | 1948.6 | 1948.6 | 1950.1 | 1950.4 | 1950.8 | 1952.0 | 1952.3 | 1950.4 |
| 15°   | 2000.0 | 2001.8 | 2003.1 | 2004.3 | 2002.8 | 2004.9 | 2007.4 | 2007.4 | 2007.0 | 2008.3 | 2006.4 |
| 17.5° | 2034.2 | 2035.6 | 2037.8 | 2037.6 | 2037.8 | 2039.7 | 2041.2 | 2041.8 | 2042.4 | 2042.4 | 2042.8 |
| 20°   | 2045.0 | 2045.8 | 2047.1 | 2048.3 | 2049.0 | 2050.8 | 2052.0 | 2052.9 | 2053.6 | 2053.0 | 2053.2 |
| 22.5° | 2036.3 | 2037.5 | 2040.0 | 2041.0 | 2041.2 | 2044.0 | 2045.2 | 2046.2 | 2046.8 | 2047.4 | 2046.5 |
| 25°   | 2021.6 | 2022.8 | 2025.2 | 2026.2 | 2026.8 | 2029.2 | 2030.8 | 2033.0 | 2033.6 | 2033.8 | 2034.2 |
| 27.5° | 2011.4 | 2012.0 | 2013.8 | 2015.0 | 2015.4 | 2018.2 | 2020.3 | 2021.8 | 2022.2 | 2022.4 | 2022.5 |
| 30°   | 2011.7 | 2011.7 | 2013.8 | 2014.2 | 2013.8 | 2016.3 | 2017.6 | 2018.4 | 2019.1 | 2019.1 | 2019.4 |
| 32.5° | 2032.9 | 2031.7 | 2033.5 | 2030.8 | 2031.1 | 2030.8 | 2030.4 | 2031.4 | 2030.8 | 2031.1 | 2029.8 |
| 35°   | 2093.0 | 2089.6 | 2086.8 | 2088.0 | 2083.7 | 2077.6 | 2081.0 | 2079.4 | 2076.0 | 2076.3 | 2077.2 |
| 37.5° | 2208.0 | 2204.7 | 2207.8 | 2205.0 | 2205.9 | 2197.3 | 2199.4 | 2191.8 | 2189.6 | 2192.4 | 2184.4 |
| 40°   | 2412.5 | 2411.0 | 2416.8 | 2414.4 | 2415.9 | 2418.4 | 2420.5 | 2413.1 | 2400.8 | 2411.9 | 2412.2 |
| 42.5° | 2695.7 | 2709.5 | 2715.1 | 2722.8 | 2731.1 | 2727.4 | 2734.8 | 2736.9 | 2723.4 | 2733.6 | 2736.0 |
| 45°   | 3050.9 | 3065.7 | 3082.9 | 3088.2 | 3101.7 | 3103.6 | 3109.1 | 3110.6 | 3098.4 | 3099.6 | 3102.3 |
| 47.5° | 3423.0 | 3450.2 | 3470.5 | 3484.6 | 3498.8 | 3501.6 | 3504.7 | 3498.8 | 3499.8 | 3502.6 | 3502.5 |
| 50°   | 3788.8 | 3846.6 | 3882.7 | 3910.7 | 3935.0 | 3922.4 | 3933.2 | 3934.1 | 3937.8 | 3930.1 | 3934.7 |
| 52.5° | 4173.3 | 4250.0 | 4310.2 | 4357.4 | 4372.2 | 4417.0 | 4398.6 | 4412.8 | 4422.3 | 4408.2 | 4417.4 |
| 55°   | 4548.8 | 4658.1 | 4755.1 | 4823.4 | 4871.4 | 4917.0 | 4924.0 | 4960.8 | 4956.4 | 4970.2 | 4964.1 |
| 57.5° | 4905.9 | 5058.6 | 5197.1 | 5298.4 | 5367.4 | 5436.9 | 5484.0 | 5524.0 | 5528.0 | 5567.8 | 5545.3 |
| 60°   | 5337.8 | 5550.5 | 5728.8 | 5879.6 | 5981.5 | 6084.9 | 6166.5 | 6232.0 | 6247.2 | 6315.2 | 6292.7 |
| 62.5° | 5920.5 | 6180.0 | 6407.8 | 6584.8 | 6811.7 | 6921.0 | 7079.8 | 7179.0 | 7240.8 | 7257.8 | 7289.5 |
| 65°   | 6739.6 | 7077.7 | 7378.1 | 7661.3 | 7916.5 | 8093.5 | 8277.2 | 8425.0 | 8543.6 | 8533.7 | 8582.3 |
| 67.5° | 7348.2 | 7733.6 | 8095.4 | 8434.9 | 8709.5 | 8937.3 | 9148.4 | 9308.2 | 9414.1 | 9481.5 | 9510.2 |
| 69°   | 7284.8 | 7698.6 | 8097.5 | 8460.1 | 8743.3 | 8998.0 | 9203.6 | 9360.8 | 9482.2 | 9555.4 | 9576.6 |
| 70°   | 7074.0 | 7499.1 | 7915.0 | 8270.8 | 8559.6 | 8839.1 | 9048.4 | 9223.6 | 9339.0 | 9419.0 | 9431.3 |
| 72.5° | 6118.8 | 6579.3 | 6947.2 | 7335.3 | 7613.3 | 7896.2 | 8028.0 | 8245.0 | 8395.5 | 8444.1 | 8443.2 |
| 75°   | 4615.0 | 4999.2 | 5322.4 | 5609.3 | 5858.0 | 6049.8 | 6112.0 | 6266.5 | 6391.5 | 6390.0 | 6378.3 |
| 77.5° | 2485.1 | 2575.6 | 2696.6 | 2737.2 | 2813.9 | 2812.6 | 2735.7 | 2760.0 | 2830.8 | 2693.6 | 2737.9 |
| 80°   | 533.2  | 525.2  | 518.4  | 514.4  | 512.2  | 513.2  | 516.0  | 498.4  | 515.6  | 508.0  | 475.3  |
| 82.5° | 185.6  | 181.4  | 177.0  | 180.1  | 178.0  | 179.8  | 179.2  | 181.4  | 181.0  | 180.4  | 176.1  |
| 85°   | 104.4  | 100.6  | 98.5   | 100.0  | 96.6   | 93.6   | 91.4   | 90.5   | 90.2   | 88.1   | 86.8   |
| 87.5° | 39.7   | 39.4   | 39.1   | 37.6   | 33.8   | 31.1   | 29.2   | 25.5   | 24.0   | 21.8   | 20.3   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)