

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: P149190

Luminaire Tested: **AVS-E03-LED-E-U-RW**

Issue Date: 3/3/2020

### Test Information

Test Method: LM-79-08  
Report Number: P149190  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33677)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: AVS-E03-LED-E-U-RW  
Description: VISION SITE SMALL LED LUMINAIRE  
(3) LIGHTBARS WITH AccuLED OPTICS - RECTANGULAR WIDE  
Light Source: (63) 4000K CCT, 70 CRI LEDs  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 9371.8 lumens  
Efficiency: N/A  
Efficacy: 124.6 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 (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

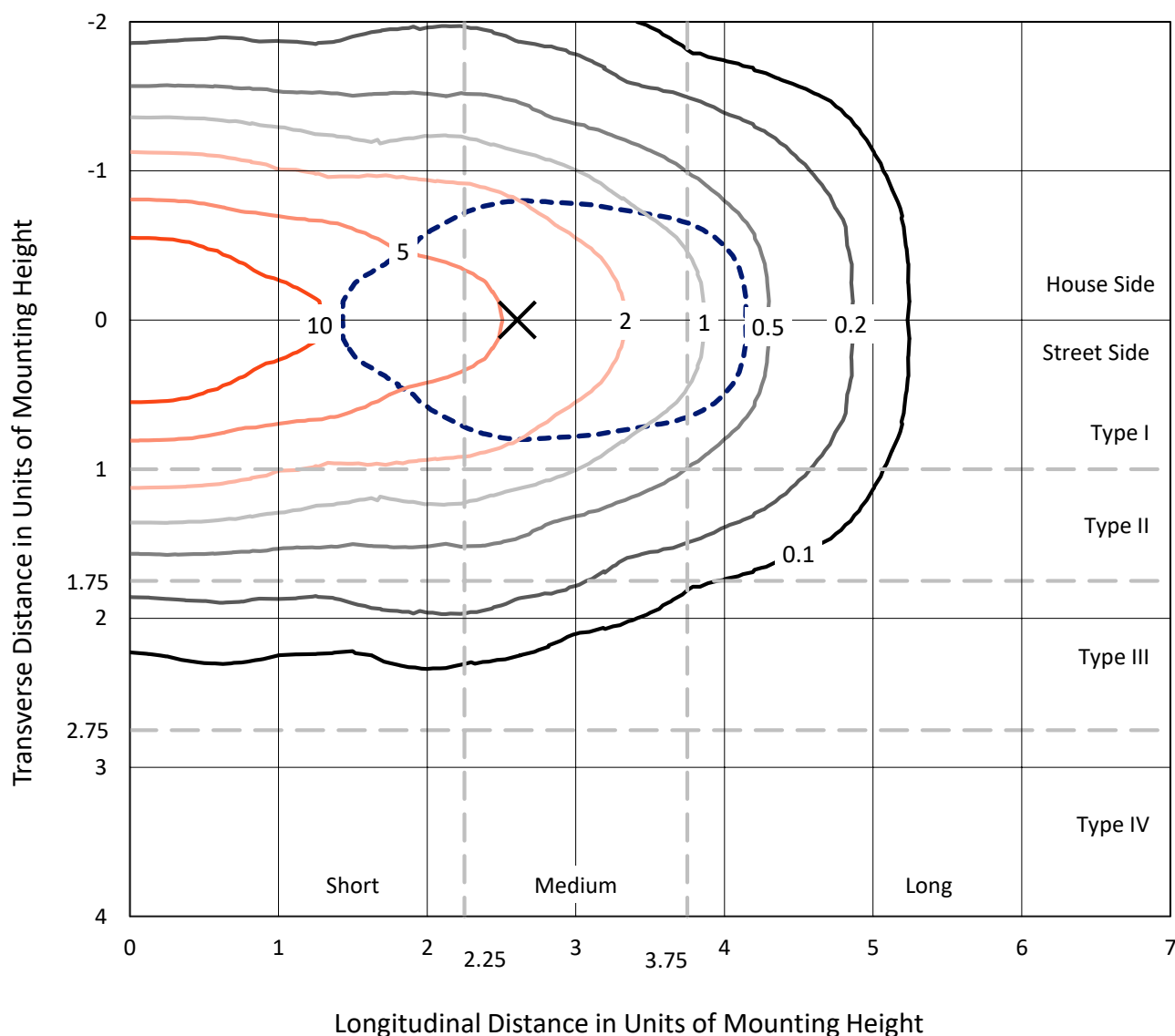


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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 --- 1/2 Max cd

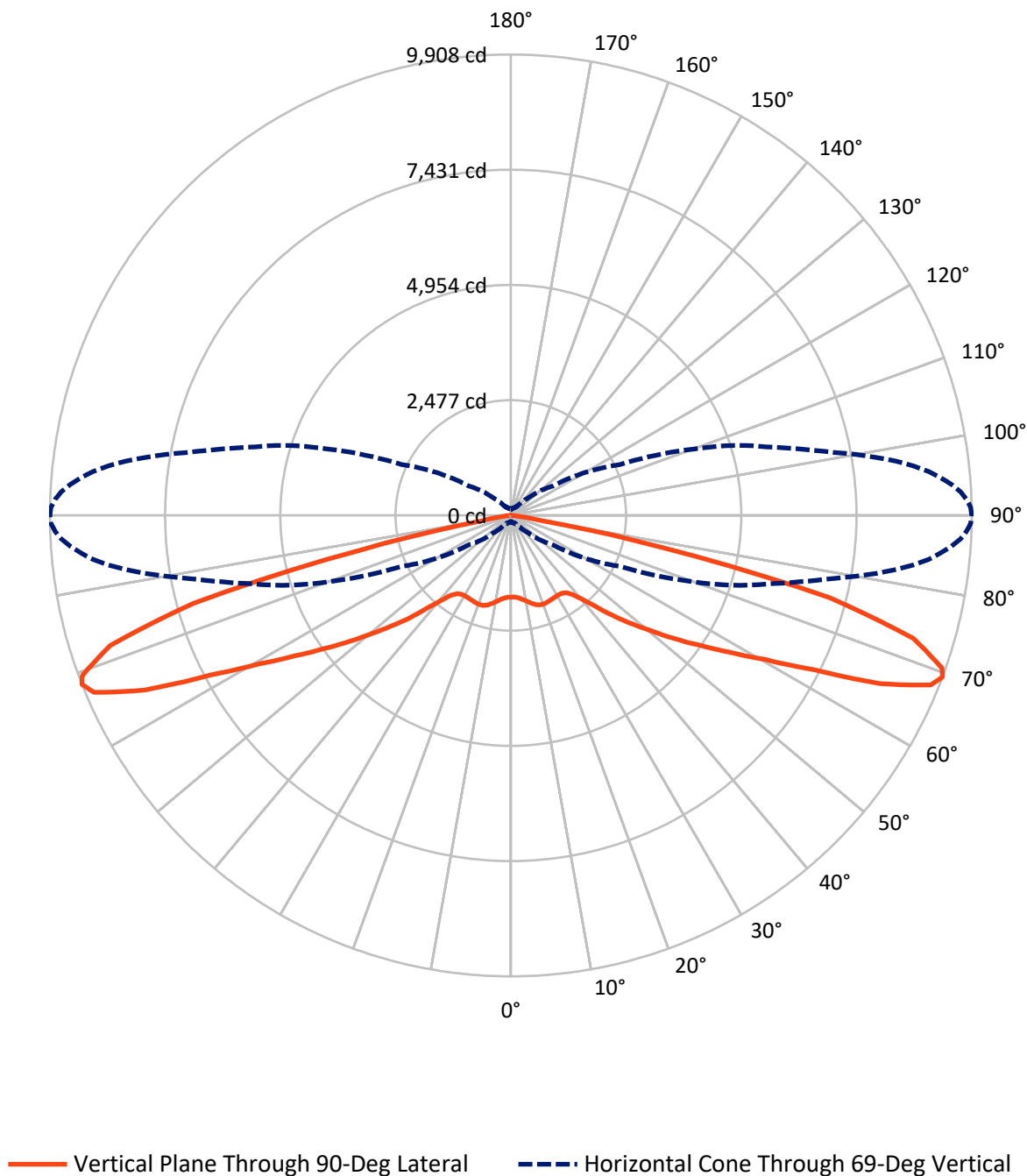


Based on 10 foot mounting height. Maximum calculated value = 18 fc  
 Type V - Medium - Full Cutoff

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## Luminous Intensity Polar Plot



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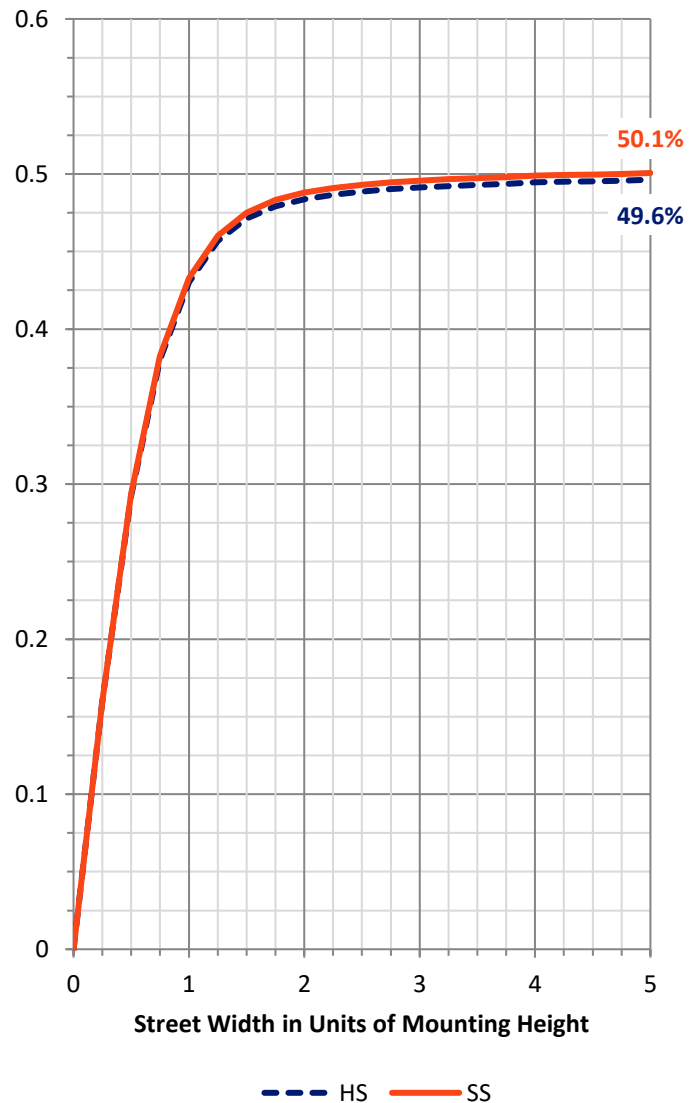
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 4685.9   | 0.0    | 4685.9 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Street Side</b> | Lumens    | 4685.9   | 0.0    | 4685.9 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Total</b>       | Lumens    | 9371.8   | 0.0    | 9371.8 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 172.2  | 1.8       |
| 10°-20°   | 543.4  | 5.8       |
| 20°-30°   | 880.3  | 9.4       |
| 30°-40°   | 1097.1 | 11.7      |
| 40°-50°   | 1370.9 | 14.6      |
| 50°-60°   | 1692.8 | 18.1      |
| 60°-70°   | 2103.4 | 22.4      |
| 70°-80°   | 1396.4 | 14.9      |
| 80°-90°   | 115.3  | 1.2       |
| 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°    | 9371.8 | 100.0     |
| 0°-180°   | 9371.8 | 100.0     |

**Coefficient of Utilization**



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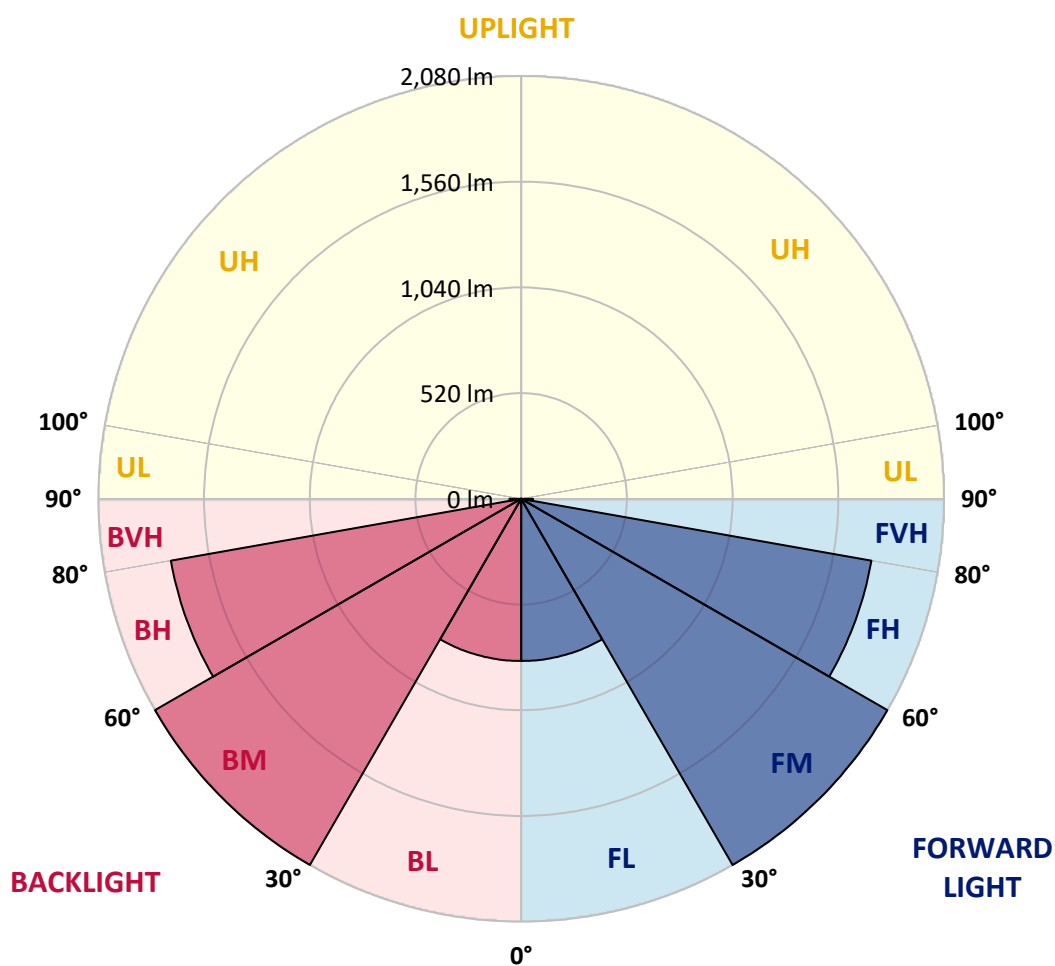
CATALOG NUMBER: AVS-E03-LED-E-U-RW

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

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 798.0  | 8.5       |                         |      |         |
| FM   | (30°-60°)   | 2080.4 | 22.2      |                         |      |         |
| FH   | (60°-80°)   | 1749.9 | 18.7      |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 57.6   | 0.6       |                         |      | G1/100  |
| BL   | (0°-30°)    | 798.0  | 8.5       | B2/1000                 |      |         |
| BM   | (30°-60°)   | 2080.4 | 22.2      | B2/2500                 |      |         |
| BH   | (60°-80°)   | 1749.9 | 18.7      | B3/2500                 |      | G1/1800 |
| BVH  | (80°-90°)   | 57.6   | 0.6       |                         |      | 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°    | 1756.0 | 1756.0 | 1756.0 | 1756.0 | 1756.0 | 1756.0 | 1756.0 | 1756.0 | 1756.0 | 1756.0 | 1756.0 |
| 2.5°  | 1764.0 | 1765.5 | 1764.5 | 1766.5 | 1766.0 | 1766.0 | 1765.0 | 1763.0 | 1762.8 | 1762.5 | 1762.3 |
| 5°    | 1781.0 | 1779.0 | 1782.0 | 1785.0 | 1784.0 | 1784.5 | 1784.0 | 1784.0 | 1783.8 | 1783.6 | 1783.4 |
| 7.5°  | 1799.0 | 1798.5 | 1800.5 | 1808.5 | 1809.5 | 1812.4 | 1816.0 | 1818.5 | 1818.6 | 1818.7 | 1818.8 |
| 10°   | 1814.5 | 1815.0 | 1820.0 | 1831.5 | 1837.5 | 1847.0 | 1856.5 | 1864.0 | 1864.5 | 1865.1 | 1865.6 |
| 12.5° | 1827.0 | 1827.5 | 1835.0 | 1853.0 | 1867.5 | 1885.5 | 1906.0 | 1917.5 | 1918.5 | 1919.5 | 1920.5 |
| 15°   | 1828.0 | 1829.5 | 1842.4 | 1872.0 | 1901.0 | 1930.4 | 1955.0 | 1970.5 | 1971.3 | 1972.1 | 1972.9 |
| 17.5° | 1815.0 | 1816.0 | 1838.0 | 1881.5 | 1930.0 | 1976.0 | 2001.5 | 2008.5 | 2008.8 | 2009.1 | 2009.4 |
| 20°   | 1781.0 | 1783.5 | 1814.5 | 1879.0 | 1953.0 | 2013.0 | 2039.5 | 2030.0 | 2029.0 | 2028.1 | 2027.2 |
| 22.5° | 1726.0 | 1725.5 | 1766.0 | 1853.0 | 1957.5 | 2042.0 | 2065.5 | 2040.5 | 2037.6 | 2034.6 | 2031.6 |
| 25°   | 1637.0 | 1643.0 | 1690.5 | 1794.5 | 1932.0 | 2048.5 | 2084.0 | 2046.0 | 2041.8 | 2037.5 | 2033.2 |
| 27.5° | 1540.5 | 1544.0 | 1594.4 | 1706.0 | 1872.5 | 2026.0 | 2093.0 | 2057.0 | 2052.2 | 2047.5 | 2042.8 |
| 30°   | 1428.0 | 1432.5 | 1486.5 | 1603.0 | 1777.0 | 1968.0 | 2090.5 | 2082.0 | 2076.4 | 2070.9 | 2065.4 |
| 32.5° | 1318.0 | 1323.0 | 1371.5 | 1499.0 | 1676.5 | 1888.5 | 2075.5 | 2117.5 | 2111.8 | 2106.1 | 2100.4 |
| 35°   | 1204.0 | 1211.5 | 1270.5 | 1399.5 | 1579.5 | 1800.0 | 2052.5 | 2163.0 | 2159.8 | 2156.7 | 2153.6 |
| 37.5° | 1109.5 | 1111.0 | 1168.0 | 1303.5 | 1489.5 | 1715.6 | 2022.0 | 2220.5 | 2222.8 | 2225.1 | 2227.4 |
| 40°   | 1004.0 | 1013.5 | 1070.5 | 1213.5 | 1408.0 | 1644.0 | 1993.0 | 2298.5 | 2310.4 | 2322.4 | 2334.4 |
| 42.5° | 909.5  | 910.5  | 968.5  | 1116.0 | 1319.5 | 1586.5 | 1977.0 | 2392.5 | 2418.0 | 2443.6 | 2469.1 |
| 45°   | 809.9  | 814.0  | 866.5  | 1009.0 | 1217.5 | 1518.5 | 1976.4 | 2501.0 | 2541.8 | 2582.6 | 2623.4 |
| 47.5° | 716.0  | 717.5  | 773.0  | 905.5  | 1100.5 | 1423.5 | 1973.0 | 2617.5 | 2673.0 | 2728.6 | 2784.1 |
| 50°   | 626.0  | 624.5  | 679.0  | 806.5  | 985.0  | 1299.0 | 1942.5 | 2749.5 | 2819.6 | 2889.8 | 2960.0 |
| 52.5° | 523.0  | 530.0  | 586.5  | 708.5  | 880.0  | 1172.5 | 1853.5 | 2894.0 | 2977.9 | 3061.8 | 3145.7 |
| 55°   | 422.0  | 425.0  | 485.5  | 599.5  | 773.5  | 1054.5 | 1698.5 | 3027.0 | 3125.9 | 3224.8 | 3323.7 |
| 57.5° | 311.0  | 320.0  | 373.0  | 485.5  | 665.5  | 955.0  | 1501.5 | 3096.0 | 3216.4 | 3336.7 | 3457.0 |
| 60°   | 219.5  | 226.4  | 273.5  | 368.0  | 547.0  | 850.5  | 1332.0 | 3057.5 | 3213.9 | 3370.3 | 3526.7 |
| 62.5° | 171.0  | 176.5  | 214.0  | 275.5  | 426.4  | 746.0  | 1210.5 | 2933.0 | 3145.8 | 3358.6 | 3571.4 |
| 65°   | 150.1  | 155.0  | 189.0  | 220.5  | 318.5  | 639.5  | 1144.0 | 2801.5 | 3082.8 | 3364.1 | 3645.4 |
| 67.5° | 135.5  | 141.5  | 171.0  | 193.0  | 259.5  | 558.0  | 1126.5 | 2718.5 | 3037.1 | 3355.7 | 3674.3 |
| 69°   | 129.0  | 135.0  | 161.5  | 180.0  | 241.0  | 529.0  | 1096.5 | 2588.0 | 2904.8 | 3221.5 | 3538.2 |
| 70°   | 125.0  | 130.0  | 154.5  | 173.4  | 235.0  | 509.0  | 1046.5 | 2425.0 | 2736.0 | 3047.1 | 3358.2 |
| 72.5° | 116.0  | 118.5  | 140.0  | 158.5  | 218.0  | 411.5  | 805.0  | 1801.0 | 2070.6 | 2340.3 | 2610.0 |
| 75°   | 102.5  | 105.5  | 125.4  | 143.5  | 170.0  | 255.5  | 509.6  | 1114.0 | 1315.3 | 1516.6 | 1717.9 |
| 77.5° | 88.5   | 91.0   | 108.5  | 137.0  | 132.0  | 159.5  | 304.5  | 620.0  | 736.7  | 853.5  | 970.2  |
| 80°   | 71.0   | 74.0   | 89.5   | 136.0  | 109.0  | 124.0  | 219.0  | 433.5  | 465.0  | 496.5  | 528.0  |
| 82.5° | 52.0   | 54.4   | 70.0   | 110.0  | 83.5   | 93.5   | 167.0  | 367.5  | 378.4  | 389.4  | 400.4  |
| 85°   | 26.5   | 27.0   | 44.4   | 67.0   | 53.0   | 48.5   | 94.0   | 251.5  | 258.5  | 265.5  | 272.5  |
| 87.5° | 4.5    | 4.5    | 10.0   | 11.5   | 13.0   | 8.0    | 12.0   | 43.0   | 44.4   | 45.7   | 47.0   |
| 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°    | 1756.0 | 1756.0 | 1756.0 | 1756.0 | 1756.0 | 1756.0 | 1756.0 | 1756.0 | 1756.0 | 1756.0 | 1756.0 |
| 2.5°  | 1762.0 | 1761.8 | 1760.9 | 1761.0 | 1761.7 | 1761.3 | 1762.0 | 1762.1 | 1762.7 | 1760.8 | 1760.4 |
| 5°    | 1783.2 | 1783.0 | 1782.9 | 1782.8 | 1783.2 | 1783.1 | 1783.4 | 1784.3 | 1784.1 | 1782.9 | 1782.7 |
| 7.5°  | 1818.9 | 1819.0 | 1819.5 | 1819.0 | 1820.0 | 1819.5 | 1818.5 | 1820.1 | 1821.2 | 1821.3 | 1822.4 |
| 10°   | 1866.2 | 1866.8 | 1868.4 | 1868.2 | 1870.0 | 1869.8 | 1870.0 | 1871.7 | 1872.8 | 1873.1 | 1874.2 |
| 12.5° | 1921.5 | 1922.5 | 1923.4 | 1924.3 | 1926.2 | 1925.1 | 1927.6 | 1928.5 | 1930.0 | 1933.1 | 1931.5 |
| 15°   | 1973.7 | 1974.5 | 1977.2 | 1977.4 | 1979.1 | 1979.8 | 1982.0 | 1982.9 | 1983.3 | 1985.7 | 1986.1 |
| 17.5° | 2009.7 | 2010.0 | 2011.0 | 2010.5 | 2012.0 | 2011.5 | 2013.0 | 2013.8 | 2015.1 | 2016.4 | 2018.7 |
| 20°   | 2026.2 | 2025.2 | 2024.7 | 2024.2 | 2023.1 | 2021.6 | 2022.0 | 2022.7 | 2022.9 | 2024.1 | 2025.8 |
| 22.5° | 2028.7 | 2025.8 | 2022.7 | 2020.6 | 2017.6 | 2015.0 | 2012.5 | 2012.7 | 2012.9 | 2012.6 | 2013.8 |
| 25°   | 2029.0 | 2024.8 | 2020.0 | 2014.2 | 2010.0 | 2004.2 | 1999.5 | 1999.1 | 1997.7 | 1997.8 | 1998.4 |
| 27.5° | 2038.0 | 2033.2 | 2026.6 | 2020.0 | 2010.8 | 2003.2 | 1995.5 | 1992.8 | 1990.1 | 1988.4 | 1987.7 |
| 30°   | 2059.8 | 2054.2 | 2046.3 | 2037.8 | 2027.9 | 2016.0 | 2005.0 | 2001.6 | 1997.7 | 1994.3 | 1991.4 |
| 32.5° | 2094.7 | 2089.0 | 2080.2 | 2071.4 | 2058.1 | 2046.3 | 2035.5 | 2030.0 | 2024.5 | 2018.5 | 2013.0 |
| 35°   | 2150.4 | 2147.2 | 2139.5 | 2131.8 | 2122.0 | 2112.8 | 2103.0 | 2096.8 | 2087.6 | 2082.9 | 2076.2 |
| 37.5° | 2229.7 | 2232.0 | 2232.0 | 2233.0 | 2230.0 | 2225.5 | 2218.5 | 2212.0 | 2209.0 | 2196.5 | 2188.5 |
| 40°   | 2346.3 | 2358.2 | 2369.2 | 2377.6 | 2385.1 | 2392.6 | 2399.0 | 2395.2 | 2396.4 | 2393.1 | 2388.3 |
| 42.5° | 2494.7 | 2520.2 | 2543.6 | 2566.9 | 2583.8 | 2610.1 | 2628.4 | 2634.3 | 2649.1 | 2654.9 | 2665.7 |
| 45°   | 2664.2 | 2705.0 | 2744.2 | 2780.4 | 2814.1 | 2851.8 | 2888.5 | 2915.8 | 2945.6 | 2979.4 | 3013.2 |
| 47.5° | 2839.7 | 2895.2 | 2953.0 | 3000.2 | 3049.0 | 3104.8 | 3153.5 | 3194.6 | 3248.2 | 3297.8 | 3352.4 |
| 50°   | 3030.1 | 3100.2 | 3166.0 | 3224.2 | 3287.0 | 3351.2 | 3418.0 | 3478.4 | 3550.8 | 3630.2 | 3716.1 |
| 52.5° | 3229.6 | 3313.5 | 3389.6 | 3462.7 | 3536.3 | 3609.9 | 3681.0 | 3766.3 | 3855.6 | 3960.4 | 4067.7 |
| 55°   | 3422.6 | 3521.5 | 3607.8 | 3689.1 | 3773.4 | 3855.7 | 3929.0 | 4043.1 | 4152.7 | 4277.8 | 4417.9 |
| 57.5° | 3577.4 | 3697.8 | 3797.3 | 3893.8 | 3988.9 | 4076.4 | 4166.5 | 4295.2 | 4434.9 | 4581.1 | 4758.8 |
| 60°   | 3683.1 | 3839.5 | 3966.6 | 4082.7 | 4199.3 | 4309.4 | 4413.0 | 4581.2 | 4747.4 | 4929.1 | 5150.3 |
| 62.5° | 3784.2 | 3997.0 | 4162.8 | 4321.1 | 4478.4 | 4619.7 | 4748.5 | 4960.1 | 5177.2 | 5401.8 | 5664.9 |
| 65°   | 3926.7 | 4208.0 | 4452.2 | 4672.9 | 4890.6 | 5098.3 | 5291.0 | 5559.1 | 5833.2 | 6128.8 | 6442.9 |
| 67.5° | 3992.9 | 4311.5 | 4629.5 | 4927.0 | 5203.5 | 5466.5 | 5714.0 | 6038.1 | 6360.7 | 6703.3 | 7082.9 |
| 69°   | 3855.0 | 4171.8 | 4511.7 | 4836.6 | 5142.1 | 5421.0 | 5689.0 | 6019.9 | 6355.3 | 6705.2 | 7088.1 |
| 70°   | 3669.2 | 3980.2 | 4323.4 | 4663.0 | 4955.2 | 5245.8 | 5523.5 | 5851.8 | 6191.6 | 6542.4 | 6943.2 |
| 72.5° | 2879.6 | 3149.2 | 3483.9 | 3813.6 | 4106.7 | 4398.4 | 4668.0 | 5004.0 | 5346.0 | 5714.5 | 6094.0 |
| 75°   | 1919.2 | 2120.5 | 2369.8 | 2675.6 | 2944.4 | 3202.2 | 3463.5 | 3747.7 | 4081.4 | 4385.1 | 4732.3 |
| 77.5° | 1087.0 | 1203.7 | 1348.6 | 1547.4 | 1740.3 | 1894.6 | 2081.0 | 2214.7 | 2408.4 | 2575.6 | 2752.3 |
| 80°   | 559.5  | 591.0  | 634.2  | 681.8  | 709.1  | 704.8  | 732.5  | 705.1  | 711.2  | 688.8  | 664.9  |
| 82.5° | 411.3  | 422.2  | 441.8  | 451.4  | 450.4  | 419.0  | 385.5  | 339.1  | 298.2  | 255.3  | 215.9  |
| 85°   | 279.5  | 286.5  | 291.4  | 298.8  | 296.7  | 283.1  | 253.0  | 212.7  | 173.4  | 139.1  | 111.3  |
| 87.5° | 48.4   | 49.8   | 49.4   | 53.6   | 53.7   | 49.8   | 41.0   | 35.0   | 29.5   | 22.0   | 15.5   |
| 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°    | 1756.0 | 1756.0 | 1756.0 | 1756.0 | 1756.0 | 1756.0 | 1756.0 | 1756.0 | 1756.0 | 1756.0 | 1756.0 |
| 2.5°  | 1760.0 | 1760.0 | 1761.0 | 1760.0 | 1760.0 | 1760.0 | 1759.5 | 1760.5 | 1760.0 | 1758.5 | 1757.0 |
| 5°    | 1783.0 | 1781.6 | 1781.0 | 1782.0 | 1783.0 | 1781.0 | 1782.5 | 1784.0 | 1781.5 | 1782.0 | 1781.0 |
| 7.5°  | 1821.5 | 1821.0 | 1820.4 | 1821.5 | 1821.5 | 1821.0 | 1821.5 | 1820.0 | 1819.0 | 1820.5 | 1822.0 |
| 10°   | 1873.0 | 1872.5 | 1873.5 | 1873.5 | 1875.5 | 1874.5 | 1874.0 | 1875.5 | 1874.6 | 1873.6 | 1874.0 |
| 12.5° | 1933.5 | 1932.0 | 1934.5 | 1934.5 | 1936.0 | 1936.0 | 1935.4 | 1936.0 | 1935.4 | 1934.0 | 1933.0 |
| 15°   | 1987.5 | 1985.5 | 1986.0 | 1990.0 | 1989.5 | 1990.5 | 1990.5 | 1989.5 | 1989.0 | 1988.5 | 1989.0 |
| 17.5° | 2020.0 | 2019.0 | 2019.0 | 2021.0 | 2022.5 | 2022.0 | 2022.0 | 2022.0 | 2021.5 | 2022.0 | 2023.0 |
| 20°   | 2026.0 | 2026.0 | 2026.5 | 2028.5 | 2031.0 | 2029.5 | 2029.5 | 2030.5 | 2029.5 | 2030.5 | 2031.0 |
| 22.5° | 2014.5 | 2015.5 | 2016.5 | 2019.0 | 2019.5 | 2019.5 | 2019.5 | 2020.0 | 2021.0 | 2021.0 | 2022.0 |
| 25°   | 1998.5 | 1999.5 | 2001.0 | 2003.0 | 2005.0 | 2005.0 | 2005.0 | 2006.0 | 2006.0 | 2006.5 | 2007.0 |
| 27.5° | 1986.5 | 1987.5 | 1989.0 | 1991.0 | 1993.5 | 1993.4 | 1993.5 | 1994.5 | 1994.5 | 1995.0 | 1996.0 |
| 30°   | 1988.0 | 1986.0 | 1987.5 | 1988.5 | 1990.0 | 1990.0 | 1989.5 | 1990.0 | 1990.5 | 1990.5 | 1991.0 |
| 32.5° | 2009.5 | 2005.0 | 2003.5 | 2003.0 | 2003.5 | 2002.0 | 2001.5 | 2000.5 | 1999.5 | 1999.5 | 1999.0 |
| 35°   | 2066.5 | 2059.5 | 2059.0 | 2055.0 | 2051.0 | 2047.0 | 2047.5 | 2044.5 | 2045.5 | 2043.0 | 2041.0 |
| 37.5° | 2183.5 | 2175.5 | 2180.5 | 2172.0 | 2166.5 | 2162.5 | 2158.0 | 2152.0 | 2148.5 | 2153.0 | 2153.0 |
| 40°   | 2393.0 | 2387.5 | 2386.0 | 2387.5 | 2382.5 | 2385.0 | 2374.0 | 2371.0 | 2364.5 | 2369.0 | 2375.0 |
| 42.5° | 2682.5 | 2679.0 | 2698.0 | 2701.5 | 2703.5 | 2706.5 | 2708.5 | 2692.0 | 2691.5 | 2688.0 | 2678.0 |
| 45°   | 3040.0 | 3061.0 | 3060.0 | 3083.0 | 3084.0 | 3077.0 | 3080.0 | 3072.5 | 3069.5 | 3058.5 | 3072.0 |
| 47.5° | 3407.5 | 3447.5 | 3462.5 | 3467.6 | 3486.5 | 3491.0 | 3473.0 | 3467.0 | 3477.5 | 3459.5 | 3462.0 |
| 50°   | 3802.0 | 3845.0 | 3880.0 | 3903.5 | 3917.0 | 3918.0 | 3904.5 | 3901.5 | 3911.0 | 3877.0 | 3893.0 |
| 52.5° | 4190.0 | 4255.0 | 4321.0 | 4356.0 | 4381.0 | 4383.0 | 4393.5 | 4381.0 | 4386.0 | 4378.0 | 4394.0 |
| 55°   | 4572.4 | 4685.0 | 4762.5 | 4831.0 | 4874.5 | 4912.0 | 4915.5 | 4929.0 | 4930.0 | 4946.4 | 4929.9 |
| 57.5° | 4946.5 | 5069.0 | 5204.0 | 5325.4 | 5393.0 | 5435.5 | 5475.5 | 5530.0 | 5542.0 | 5535.5 | 5546.0 |
| 60°   | 5388.0 | 5577.5 | 5761.0 | 5901.0 | 6017.5 | 6129.0 | 6189.0 | 6274.5 | 6288.0 | 6325.0 | 6293.0 |
| 62.5° | 5946.0 | 6221.0 | 6470.0 | 6658.5 | 6835.5 | 7009.0 | 7140.0 | 7206.0 | 7246.0 | 7323.5 | 7298.0 |
| 65°   | 6802.0 | 7132.0 | 7461.5 | 7731.5 | 7979.5 | 8186.0 | 8385.0 | 8480.0 | 8585.0 | 8695.0 | 8715.0 |
| 67.5° | 7507.0 | 7915.5 | 8287.0 | 8616.0 | 8916.5 | 9146.0 | 9353.0 | 9517.4 | 9645.5 | 9726.5 | 9733.0 |
| 69°   | 7539.0 | 7963.5 | 8367.0 | 8720.0 | 9033.5 | 9277.5 | 9495.5 | 9678.5 | 9803.0 | 9886.0 | 9908.0 |
| 70°   | 7386.0 | 7820.5 | 8250.5 | 8607.0 | 8928.0 | 9177.5 | 9408.5 | 9583.0 | 9722.0 | 9806.5 | 9836.0 |
| 72.5° | 6525.5 | 6989.4 | 7449.0 | 7761.5 | 8089.5 | 8386.5 | 8571.5 | 8749.5 | 8945.5 | 8971.0 | 9052.0 |
| 75°   | 5144.0 | 5534.0 | 5890.5 | 6129.5 | 6403.5 | 6670.0 | 6851.5 | 6898.5 | 7001.0 | 7130.0 | 7084.0 |
| 77.5° | 2981.0 | 3101.0 | 3331.0 | 3390.0 | 3340.0 | 3456.0 | 3494.5 | 3412.5 | 3408.5 | 3484.0 | 3334.0 |
| 80°   | 660.5  | 623.0  | 670.0  | 635.0  | 636.0  | 637.0  | 626.5  | 622.5  | 630.0  | 622.5  | 612.0  |
| 82.5° | 183.0  | 177.0  | 178.0  | 176.0  | 179.5  | 177.0  | 175.4  | 179.5  | 179.0  | 178.5  | 182.0  |
| 85°   | 88.0   | 87.0   | 85.5   | 85.0   | 83.0   | 80.5   | 76.5   | 76.5   | 78.5   | 75.5   | 77.0   |
| 87.5° | 11.5   | 11.0   | 11.0   | 13.0   | 11.4   | 9.4    | 9.4    | 9.4    | 9.0    | 9.0    | 9.0    |
| 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)