

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: McGRAW-EDISON

Report Number: P159456

Luminaire Tested: **VTS-F06-LED-E1-T3-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P159456
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33706)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: VTS-F06-LED-E1-T3-7050
Description: VENTUS LED SITE LUMINAIRE
(6) LIGHTBARS WITH AccuLED OPTICS - TYPE 3
Light Source: (42) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15544 lumens
Efficiency: N/A
Efficacy: 99.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G3

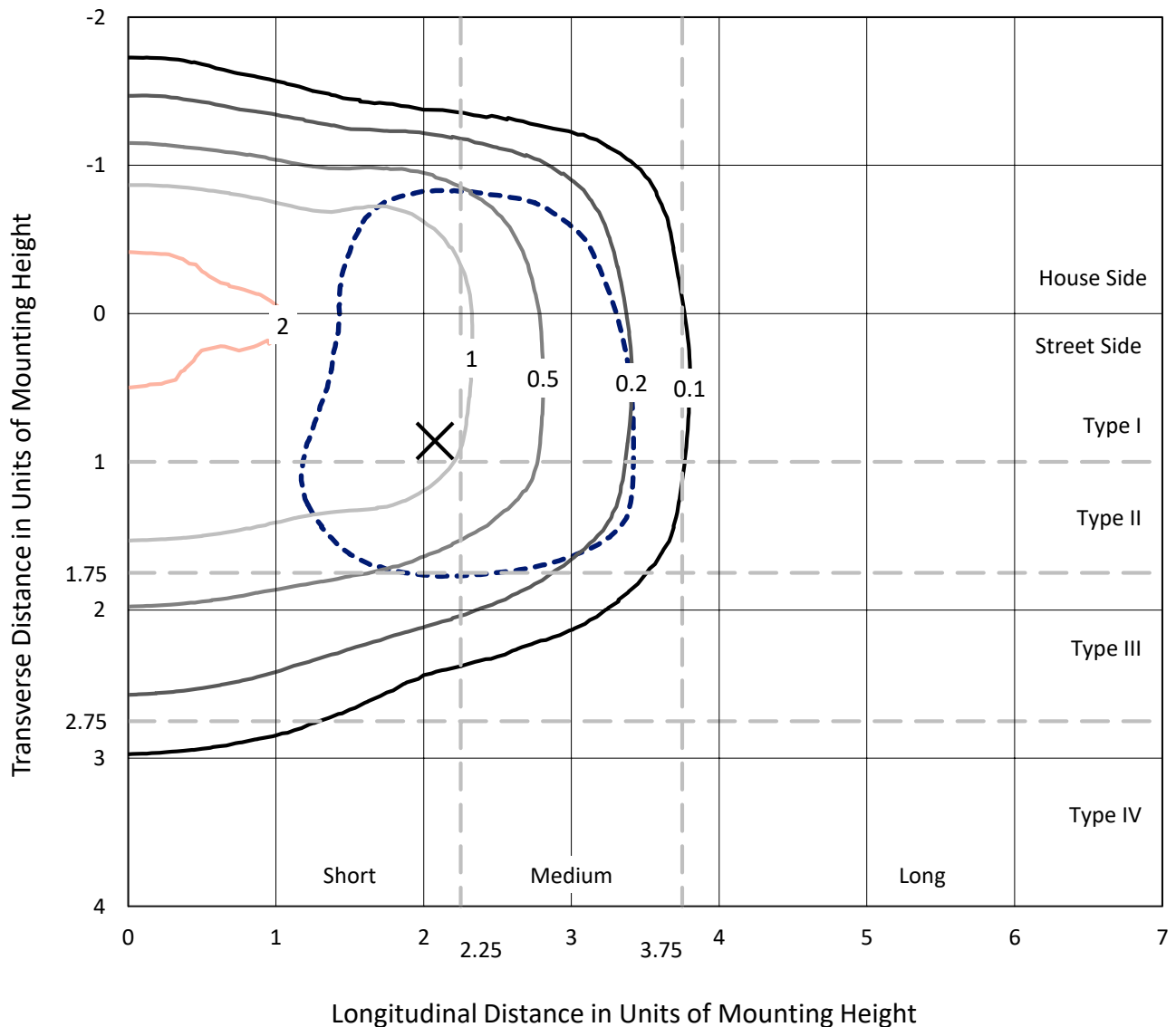
Input Watts (W): 156.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

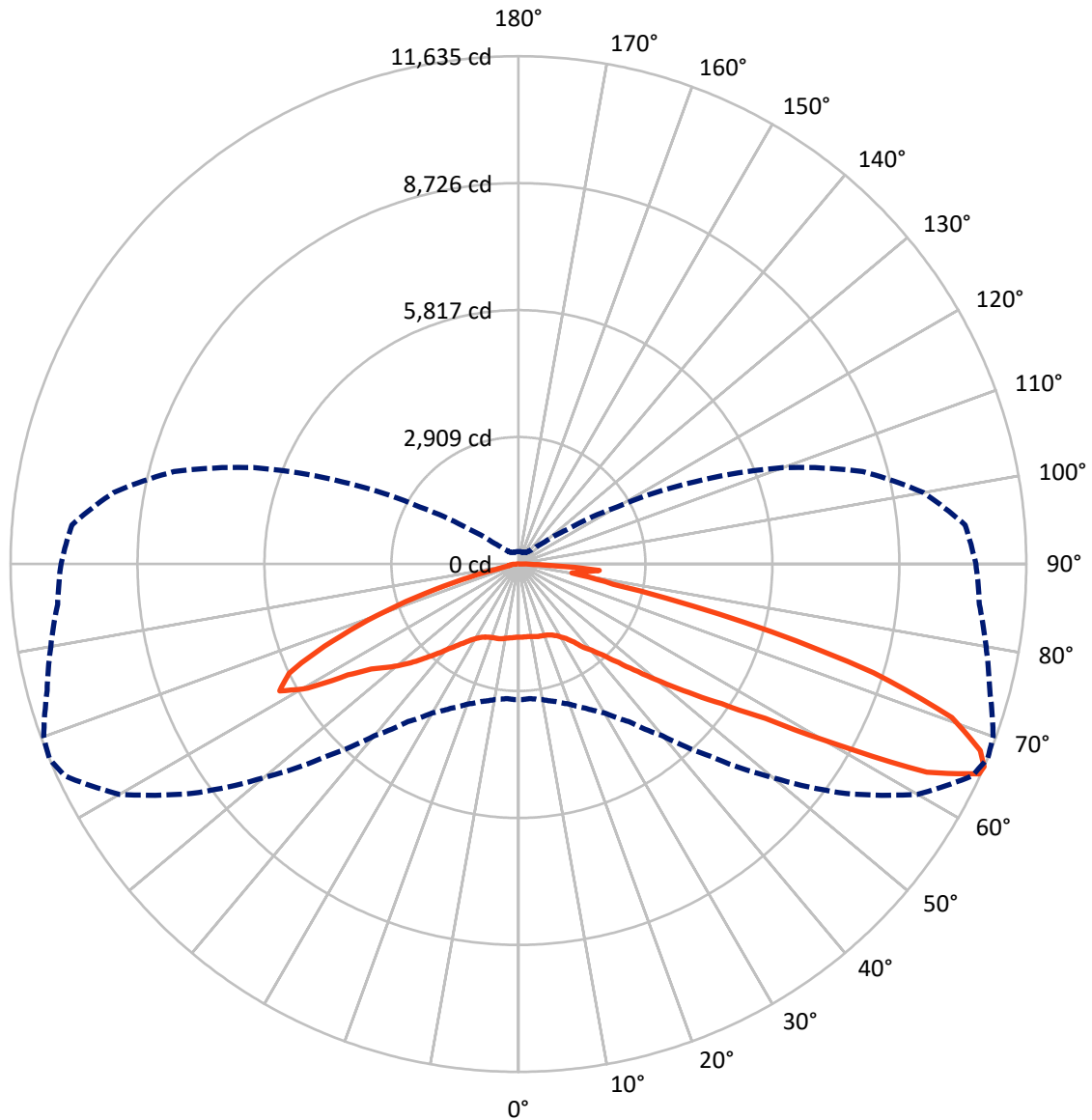


Based on 25 foot mounting height. Maximum calculated value = 2.7 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 67.5-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 5378.9 | 0.0 | 5378.9 |
| | % Fixture | 34.6 | 0.0 | 34.6 |
| Street Side | Lumens | 10165.1 | 0.0 | 10165.1 |
| | % Fixture | 65.4 | 0.0 | 65.4 |
| Total | Lumens | 15544.0 | 0.0 | 15544.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 161.0 | 1.0 |
| 10°-20° | 476.6 | 3.1 |
| 20°-30° | 819.2 | 5.3 |
| 30°-40° | 1324.0 | 8.5 |
| 40°-50° | 2194.3 | 14.1 |
| 50°-60° | 3443.7 | 22.2 |
| 60°-70° | 4708.2 | 30.3 |
| 70°-80° | 2070.4 | 13.3 |
| 80°-90° | 346.6 | 2.2 |
| 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° | 15544.0 | 100.0 |
| 0°-180° | 15544.0 | 100.0 |

Coefficient of Utilization



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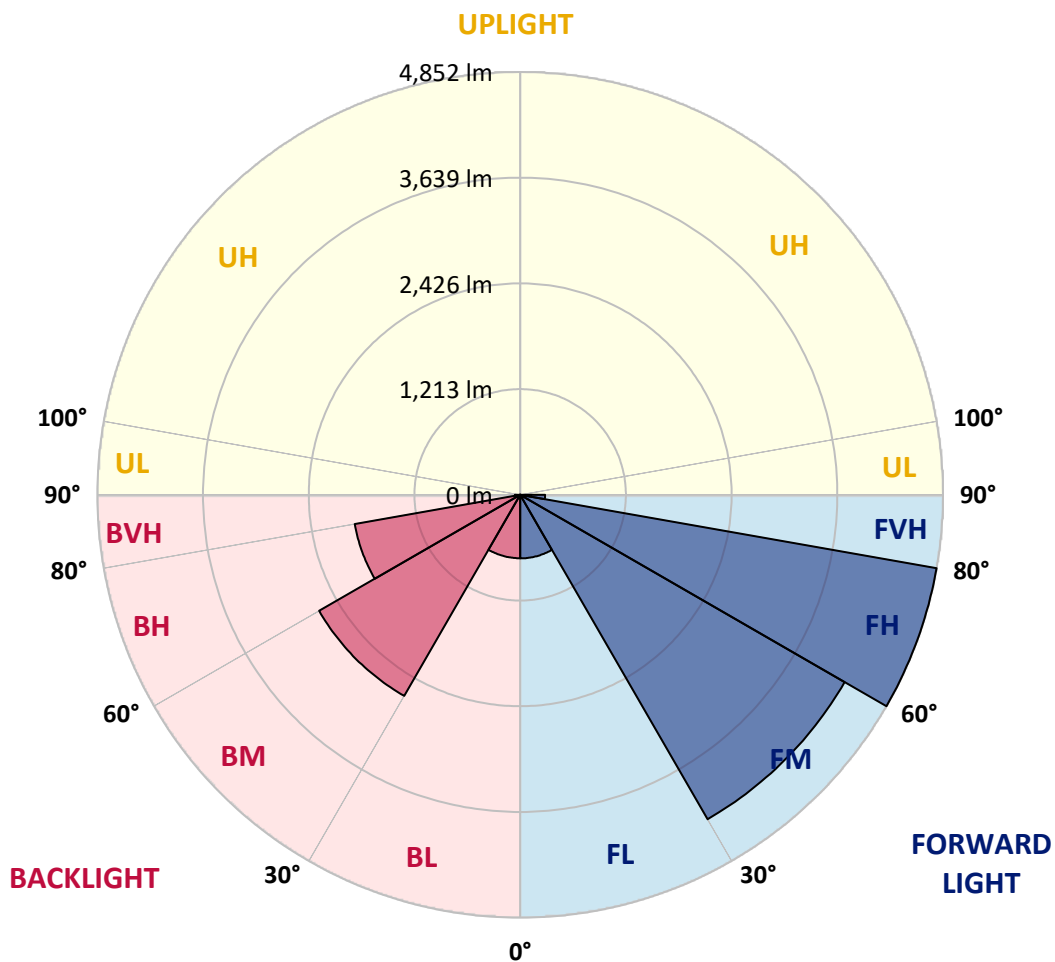
CATALOG NUMBER: VTS-F06-LED-E1-T3-7050

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 729.1 | 4.7 | | | |
| FM (30°-60°) | 4298.4 | 27.7 | | | |
| FH (60°-80°) | 4851.6 | 31.2 | | | G2/5000 |
| FVH (80°-90°) | 285.9 | 1.8 | | | G3/500 |
| BL (0°-30°) | 727.6 | 4.7 | B2/1000 | | |
| BM (30°-60°) | 2663.6 | 17.1 | B3/5000 | | |
| BH (60°-80°) | 1927.0 | 12.4 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 60.6 | 0.4 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1677.2 | 1677.2 | 1677.2 | 1677.2 | 1677.2 | 1677.2 | 1677.2 | 1677.2 | 1677.2 | 1677.2 | 1677.2 |
| 2.5° | 1674.2 | 1674.2 | 1675.2 | 1674.2 | 1674.2 | 1673.1 | 1677.2 | 1677.2 | 1677.2 | 1676.2 | 1679.2 |
| 5° | 1670.1 | 1670.1 | 1671.1 | 1671.1 | 1672.1 | 1671.1 | 1674.2 | 1675.2 | 1675.2 | 1675.2 | 1678.2 |
| 7.5° | 1659.9 | 1663.0 | 1660.9 | 1662.0 | 1663.0 | 1666.0 | 1670.1 | 1672.1 | 1674.2 | 1677.2 | 1678.2 |
| 10° | 1638.6 | 1643.7 | 1642.6 | 1645.7 | 1646.7 | 1655.9 | 1658.9 | 1663.0 | 1670.1 | 1674.2 | 1677.2 |
| 12.5° | 1609.1 | 1612.2 | 1613.2 | 1617.2 | 1621.3 | 1632.5 | 1640.6 | 1647.7 | 1657.9 | 1668.1 | 1678.2 |
| 15° | 1585.7 | 1587.8 | 1587.8 | 1591.8 | 1597.9 | 1608.1 | 1618.3 | 1630.5 | 1645.7 | 1663.0 | 1679.2 |
| 17.5° | 1592.8 | 1597.9 | 1593.9 | 1592.8 | 1594.9 | 1601.0 | 1610.1 | 1620.3 | 1638.6 | 1657.9 | 1677.2 |
| 20° | 1639.6 | 1640.6 | 1638.6 | 1633.5 | 1629.4 | 1630.5 | 1630.5 | 1632.5 | 1643.7 | 1658.9 | 1674.2 |
| 22.5° | 1678.2 | 1682.3 | 1681.3 | 1682.3 | 1681.3 | 1685.3 | 1683.3 | 1679.2 | 1675.2 | 1676.2 | 1683.3 |
| 25° | 1711.8 | 1715.8 | 1715.8 | 1718.9 | 1724.0 | 1732.1 | 1738.2 | 1737.2 | 1731.1 | 1723.0 | 1719.9 |
| 27.5° | 1766.7 | 1766.7 | 1766.7 | 1769.7 | 1776.8 | 1787.0 | 1797.2 | 1803.3 | 1808.3 | 1800.2 | 1782.9 |
| 30° | 1853.1 | 1854.1 | 1851.0 | 1852.0 | 1857.1 | 1870.3 | 1882.5 | 1891.7 | 1901.9 | 1900.8 | 1878.5 |
| 32.5° | 1947.6 | 1951.7 | 1950.6 | 1954.7 | 1961.8 | 1974.0 | 1987.2 | 2001.5 | 2014.7 | 2022.8 | 2008.6 |
| 35° | 2069.6 | 2073.6 | 2074.7 | 2080.8 | 2088.9 | 2107.2 | 2125.5 | 2143.8 | 2158.0 | 2164.1 | 2161.1 |
| 37.5° | 2269.8 | 2270.8 | 2266.8 | 2257.6 | 2260.7 | 2274.9 | 2296.3 | 2325.7 | 2334.9 | 2341.0 | 2355.2 |
| 40° | 2569.7 | 2566.6 | 2550.4 | 2542.2 | 2537.2 | 2543.3 | 2539.2 | 2562.6 | 2583.9 | 2584.9 | 2583.9 |
| 42.5° | 2933.6 | 2924.4 | 2909.2 | 2907.2 | 2905.1 | 2903.1 | 2891.9 | 2892.9 | 2912.2 | 2917.3 | 2911.2 |
| 45° | 3295.5 | 3284.3 | 3273.1 | 3283.3 | 3271.1 | 3302.6 | 3311.7 | 3336.1 | 3339.2 | 3349.3 | 3334.1 |
| 47.5° | 3592.3 | 3593.3 | 3593.3 | 3607.5 | 3631.9 | 3691.9 | 3745.8 | 3792.5 | 3809.8 | 3834.2 | 3837.3 |
| 50° | 3816.9 | 3823.0 | 3842.3 | 3888.1 | 3939.9 | 4040.6 | 4131.0 | 4215.4 | 4291.6 | 4320.1 | 4395.3 |
| 52.5° | 3948.1 | 3964.3 | 4005.0 | 4081.2 | 4173.7 | 4303.8 | 4446.1 | 4589.5 | 4721.6 | 4833.4 | 4922.9 |
| 55° | 3924.7 | 3936.9 | 4008.0 | 4127.0 | 4271.3 | 4446.1 | 4645.4 | 4852.7 | 5059.1 | 5248.1 | 5394.5 |
| 57.5° | 3774.2 | 3782.4 | 3853.5 | 3987.7 | 4167.6 | 4402.4 | 4684.0 | 4992.0 | 5281.7 | 5586.6 | 5836.7 |
| 60° | 3577.0 | 3589.2 | 3655.3 | 3761.0 | 3949.1 | 4199.1 | 4525.4 | 4943.2 | 5405.7 | 5885.5 | 6353.1 |
| 62.5° | 3451.0 | 3447.9 | 3505.9 | 3600.4 | 3741.7 | 3968.4 | 4282.5 | 4777.5 | 5417.9 | 6229.1 | 7153.0 |
| 65° | 3241.6 | 3232.4 | 3292.4 | 3400.2 | 3553.7 | 3773.2 | 4071.0 | 4546.8 | 5289.8 | 6359.2 | 7669.4 |
| 66° | 3111.5 | 3093.2 | 3153.2 | 3261.9 | 3415.4 | 3649.2 | 3934.8 | 4404.5 | 5134.3 | 6232.1 | 7614.5 |
| 67.5° | 2883.8 | 2874.6 | 2903.1 | 2988.5 | 3102.3 | 3321.9 | 3619.7 | 4092.4 | 4766.3 | 5849.9 | 7212.0 |
| 70° | 2344.0 | 2323.7 | 2346.1 | 2384.7 | 2428.4 | 2482.3 | 2665.2 | 3040.3 | 3610.6 | 4660.6 | 5810.3 |
| 72.5° | 1596.9 | 1586.7 | 1628.4 | 1687.4 | 1804.3 | 1859.2 | 1931.3 | 1992.3 | 2193.6 | 2937.7 | 4052.7 |
| 75° | 1214.7 | 1220.8 | 1273.7 | 1371.2 | 1521.7 | 1684.3 | 1842.9 | 1900.8 | 1833.7 | 1775.8 | 2300.3 |
| 77.5° | 681.0 | 716.6 | 780.7 | 904.7 | 1064.3 | 1294.0 | 1570.5 | 1875.4 | 2027.9 | 1990.3 | 1861.2 |
| 80° | 280.6 | 275.5 | 307.0 | 375.1 | 430.0 | 618.0 | 945.3 | 1327.5 | 1756.5 | 2027.9 | 1985.2 |
| 82.5° | 78.3 | 80.3 | 103.7 | 133.2 | 171.8 | 218.5 | 341.5 | 548.9 | 894.5 | 1391.6 | 1821.6 |
| 85° | 24.4 | 24.4 | 33.5 | 49.8 | 59.0 | 68.1 | 86.4 | 142.3 | 242.9 | 484.9 | 982.9 |
| 87.5° | 5.1 | 5.1 | 7.1 | 14.2 | 15.2 | 15.2 | 19.3 | 26.4 | 23.4 | 21.3 | 95.6 |
| 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):

| | 55° | 60° | 65° | 67.5° | 70° | 75° | 80° | 85° | 90° | 95° | 100° |
|-------|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 1677.2 | 1677.2 | 1677.2 | 1677.2 | 1677.2 | 1677.2 | 1677.2 | 1677.2 | 1677.2 | 1677.2 | 1677.2 |
| 2.5° | 1676.2 | 1674.2 | 1675.2 | 1676.2 | 1675.2 | 1675.2 | 1674.2 | 1673.1 | 1674.2 | 1674.2 | 1677.2 |
| 5° | 1675.2 | 1674.2 | 1675.2 | 1675.2 | 1675.2 | 1676.2 | 1676.2 | 1676.2 | 1679.2 | 1679.2 | 1684.3 |
| 7.5° | 1677.2 | 1677.2 | 1679.2 | 1679.2 | 1679.2 | 1679.2 | 1680.3 | 1682.3 | 1687.4 | 1686.4 | 1695.5 |
| 10° | 1681.3 | 1683.3 | 1688.4 | 1689.4 | 1689.4 | 1692.5 | 1694.5 | 1698.6 | 1703.6 | 1705.7 | 1713.8 |
| 12.5° | 1686.4 | 1696.5 | 1705.7 | 1707.7 | 1710.8 | 1715.8 | 1718.9 | 1720.9 | 1730.1 | 1733.1 | 1743.3 |
| 15° | 1692.5 | 1706.7 | 1717.9 | 1721.9 | 1726.0 | 1732.1 | 1736.2 | 1739.2 | 1747.3 | 1751.4 | 1763.6 |
| 17.5° | 1693.5 | 1709.7 | 1723.0 | 1729.1 | 1734.1 | 1741.2 | 1747.3 | 1753.4 | 1762.6 | 1768.7 | 1780.9 |
| 20° | 1692.5 | 1713.8 | 1734.1 | 1742.3 | 1747.3 | 1760.6 | 1769.7 | 1777.8 | 1789.0 | 1795.1 | 1807.3 |
| 22.5° | 1703.6 | 1728.0 | 1755.5 | 1765.6 | 1773.8 | 1792.1 | 1804.3 | 1817.5 | 1831.7 | 1835.8 | 1844.9 |
| 25° | 1730.1 | 1755.5 | 1790.0 | 1804.3 | 1818.5 | 1842.9 | 1860.2 | 1879.5 | 1893.7 | 1895.8 | 1898.8 |
| 27.5° | 1774.8 | 1798.2 | 1839.8 | 1861.2 | 1884.6 | 1919.1 | 1944.5 | 1963.9 | 1984.2 | 1984.2 | 1982.2 |
| 30° | 1865.3 | 1870.3 | 1914.1 | 1941.5 | 1976.1 | 2026.9 | 2064.5 | 2085.8 | 2101.1 | 2101.1 | 2083.8 |
| 32.5° | 1982.2 | 1976.1 | 2015.7 | 2045.2 | 2093.0 | 2164.1 | 2214.9 | 2231.2 | 2247.5 | 2242.4 | 2212.9 |
| 35° | 2150.9 | 2133.6 | 2156.0 | 2200.7 | 2254.6 | 2352.2 | 2405.0 | 2441.6 | 2451.8 | 2437.5 | 2390.8 |
| 37.5° | 2363.3 | 2361.3 | 2372.5 | 2422.3 | 2482.3 | 2608.3 | 2662.2 | 2685.6 | 2677.4 | 2652.0 | 2569.7 |
| 40° | 2588.0 | 2581.9 | 2574.8 | 2608.3 | 2675.4 | 2826.9 | 2922.4 | 2934.6 | 2923.4 | 2885.8 | 2782.1 |
| 42.5° | 2887.9 | 2887.9 | 2854.3 | 2863.5 | 2919.4 | 3089.1 | 3201.9 | 3240.6 | 3241.6 | 3186.7 | 3048.5 |
| 45° | 3300.5 | 3296.5 | 3237.5 | 3223.3 | 3266.0 | 3432.7 | 3578.0 | 3599.4 | 3599.4 | 3527.2 | 3375.8 |
| 47.5° | 3796.6 | 3791.5 | 3733.6 | 3683.8 | 3691.9 | 3871.8 | 3992.8 | 4025.3 | 3996.8 | 3943.0 | 3763.0 |
| 50° | 4355.7 | 4346.5 | 4287.6 | 4240.8 | 4220.5 | 4402.4 | 4505.1 | 4520.3 | 4478.7 | 4414.6 | 4219.5 |
| 52.5° | 4922.9 | 4950.3 | 4915.7 | 4890.3 | 4897.5 | 5015.4 | 5121.1 | 5048.9 | 5027.6 | 4958.4 | 4762.3 |
| 55° | 5513.4 | 5597.8 | 5674.1 | 5651.7 | 5678.1 | 5793.0 | 5813.3 | 5717.8 | 5679.1 | 5629.3 | 5410.8 |
| 57.5° | 6108.1 | 6354.1 | 6604.1 | 6674.3 | 6739.3 | 6904.0 | 6880.6 | 6724.1 | 6753.6 | 6827.8 | 6581.8 |
| 60° | 6938.6 | 7649.1 | 8283.4 | 8400.3 | 8602.6 | 8742.8 | 8774.3 | 8743.9 | 8881.1 | 8842.5 | 8624.9 |
| 62.5° | 8214.3 | 9398.5 | 10280.8 | 10500.3 | 10703.6 | 10696.5 | 10589.8 | 10480.0 | 10615.2 | 10615.2 | 10047.0 |
| 65° | 9125.0 | 10468.8 | 11413.2 | 11595.1 | 11587.0 | 11342.0 | 11089.9 | 10870.4 | 10851.0 | 10700.6 | 9870.1 |
| 66° | 9167.7 | 10551.2 | 11476.2 | 11634.8 | 11573.8 | 11179.4 | 10877.5 | 10598.9 | 10480.0 | 10270.6 | 9419.8 |
| 67.5° | 8783.5 | 10318.4 | 11270.8 | 11409.1 | 11248.5 | 10683.3 | 10267.6 | 9894.5 | 9721.7 | 9369.0 | 8568.0 |
| 70° | 7204.9 | 8867.9 | 10253.3 | 10535.9 | 10354.0 | 9638.4 | 9069.1 | 8565.0 | 8234.6 | 7725.3 | 7148.0 |
| 72.5° | 5259.3 | 6547.2 | 8047.6 | 8507.0 | 8478.5 | 7819.9 | 7361.4 | 6899.9 | 6465.9 | 6002.4 | 5580.5 |
| 75° | 3418.5 | 4259.1 | 5095.7 | 5364.0 | 5234.9 | 4853.7 | 4525.4 | 4256.0 | 3844.4 | 3522.1 | 3443.9 |
| 77.5° | 1951.7 | 2384.7 | 2255.6 | 2222.0 | 2060.4 | 1663.0 | 1105.9 | 775.6 | 700.4 | 874.2 | 958.6 |
| 80° | 1857.1 | 1683.3 | 1378.4 | 1243.2 | 1142.5 | 778.6 | 408.6 | 287.7 | 252.1 | 258.2 | 277.5 |
| 82.5° | 2094.0 | 2182.4 | 1785.0 | 1491.2 | 1298.1 | 947.4 | 517.4 | 240.9 | 175.9 | 208.4 | 233.8 |
| 85° | 1569.5 | 2209.9 | 2190.5 | 1856.1 | 1522.7 | 1091.7 | 611.9 | 184.0 | 105.7 | 146.4 | 191.1 |
| 87.5° | 318.2 | 523.5 | 504.2 | 443.2 | 377.1 | 263.3 | 102.7 | 57.9 | 52.9 | 72.2 | 109.8 |
| 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° | 1677.2 | 1677.2 | 1677.2 | 1677.2 | 1677.2 | 1677.2 | 1677.2 | 1677.2 | 1677.2 | 1677.2 | 1677.2 |
| 2.5° | 1679.2 | 1679.2 | 1681.3 | 1684.3 | 1685.3 | 1685.3 | 1687.4 | 1685.3 | 1689.4 | 1690.4 | 1691.4 |
| 5° | 1688.4 | 1691.4 | 1693.5 | 1698.6 | 1701.6 | 1703.6 | 1706.7 | 1704.7 | 1708.7 | 1709.7 | 1711.8 |
| 7.5° | 1698.6 | 1703.6 | 1707.7 | 1709.7 | 1713.8 | 1713.8 | 1714.8 | 1712.8 | 1711.8 | 1708.7 | 1707.7 |
| 10° | 1716.9 | 1719.9 | 1725.0 | 1723.0 | 1720.9 | 1713.8 | 1707.7 | 1698.6 | 1693.5 | 1684.3 | 1679.2 |
| 12.5° | 1746.3 | 1748.4 | 1748.4 | 1739.2 | 1726.0 | 1709.7 | 1694.5 | 1679.2 | 1667.0 | 1656.9 | 1650.8 |
| 15° | 1766.7 | 1770.7 | 1765.6 | 1752.4 | 1733.1 | 1710.8 | 1690.4 | 1670.1 | 1653.8 | 1640.6 | 1632.5 |
| 17.5° | 1781.9 | 1780.9 | 1771.7 | 1753.4 | 1735.1 | 1715.8 | 1697.5 | 1676.2 | 1655.9 | 1636.6 | 1624.4 |
| 20° | 1805.3 | 1795.1 | 1778.9 | 1759.5 | 1740.2 | 1724.0 | 1709.7 | 1689.4 | 1668.1 | 1641.6 | 1623.3 |
| 22.5° | 1836.8 | 1818.5 | 1795.1 | 1774.8 | 1756.5 | 1741.2 | 1725.0 | 1707.7 | 1685.3 | 1655.9 | 1630.5 |
| 25° | 1881.5 | 1850.0 | 1823.6 | 1803.3 | 1787.0 | 1769.7 | 1751.4 | 1729.1 | 1706.7 | 1676.2 | 1645.7 |
| 27.5° | 1949.6 | 1902.9 | 1869.3 | 1851.0 | 1835.8 | 1812.4 | 1789.0 | 1762.6 | 1734.1 | 1702.6 | 1668.1 |
| 30° | 2032.0 | 1976.1 | 1937.4 | 1921.2 | 1902.9 | 1876.4 | 1851.0 | 1814.4 | 1774.8 | 1737.2 | 1694.5 |
| 32.5° | 2128.5 | 2071.6 | 2033.0 | 2020.8 | 1991.3 | 1960.8 | 1925.2 | 1876.4 | 1824.6 | 1768.7 | 1717.9 |
| 35° | 2274.9 | 2202.7 | 2167.2 | 2138.7 | 2098.0 | 2061.4 | 2001.5 | 1937.4 | 1863.2 | 1789.0 | 1726.0 |
| 37.5° | 2425.3 | 2352.2 | 2315.6 | 2275.9 | 2223.1 | 2156.0 | 2075.7 | 1984.2 | 1885.6 | 1794.1 | 1716.9 |
| 40° | 2626.6 | 2547.3 | 2500.6 | 2439.6 | 2354.2 | 2249.5 | 2130.6 | 2005.5 | 1885.6 | 1771.7 | 1678.2 |
| 42.5° | 2861.4 | 2788.2 | 2716.1 | 2615.4 | 2478.2 | 2325.7 | 2159.0 | 1998.4 | 1853.1 | 1721.9 | 1623.3 |
| 45° | 3186.7 | 3061.7 | 2946.8 | 2785.2 | 2584.9 | 2370.5 | 2162.1 | 1964.9 | 1797.2 | 1651.8 | 1542.0 |
| 47.5° | 3552.6 | 3391.0 | 3187.7 | 2934.6 | 2661.2 | 2387.7 | 2132.6 | 1901.9 | 1708.7 | 1551.2 | 1431.2 |
| 50° | 3974.5 | 3726.5 | 3414.4 | 3053.5 | 2699.8 | 2364.4 | 2062.5 | 1796.1 | 1586.7 | 1405.8 | 1277.7 |
| 52.5° | 4457.3 | 4079.2 | 3619.7 | 3137.9 | 2693.7 | 2293.2 | 1946.6 | 1656.9 | 1423.1 | 1231.0 | 1104.9 |
| 55° | 4993.0 | 4463.4 | 3815.9 | 3191.8 | 2638.8 | 2155.0 | 1764.6 | 1460.7 | 1219.8 | 1030.7 | 919.9 |
| 57.5° | 5937.3 | 5137.3 | 4190.0 | 3264.0 | 2523.9 | 1945.6 | 1533.9 | 1212.7 | 995.1 | 834.5 | 728.8 |
| 60° | 7691.8 | 6315.5 | 4898.5 | 3433.7 | 2351.1 | 1683.3 | 1243.2 | 951.4 | 769.5 | 652.6 | 574.3 |
| 62.5° | 8777.4 | 7144.9 | 5244.1 | 3409.3 | 2070.6 | 1324.5 | 923.0 | 705.4 | 562.1 | 484.9 | 436.1 |
| 65° | 8520.2 | 6819.6 | 4822.2 | 2928.5 | 1611.1 | 939.2 | 610.9 | 461.5 | 386.3 | 346.6 | 323.2 |
| 66° | 8170.6 | 6455.7 | 4465.4 | 2622.5 | 1403.8 | 784.7 | 504.2 | 387.3 | 332.4 | 302.9 | 290.7 |
| 67.5° | 7437.7 | 5790.9 | 3851.5 | 2100.1 | 1052.1 | 584.5 | 372.0 | 303.9 | 270.4 | 255.1 | 247.0 |
| 70° | 6225.0 | 4665.7 | 2724.2 | 1240.1 | 570.3 | 317.1 | 237.9 | 211.4 | 203.3 | 198.2 | 195.2 |
| 72.5° | 4813.1 | 3377.8 | 1591.8 | 609.9 | 287.7 | 205.3 | 180.9 | 169.8 | 166.7 | 166.7 | 167.7 |
| 75° | 3032.2 | 1941.5 | 712.6 | 293.8 | 195.2 | 165.7 | 154.5 | 149.4 | 150.4 | 151.5 | 150.4 |
| 77.5° | 1007.3 | 669.9 | 296.8 | 208.4 | 169.8 | 150.4 | 141.3 | 139.3 | 141.3 | 142.3 | 142.3 |
| 80° | 289.7 | 253.1 | 214.5 | 184.0 | 155.5 | 140.3 | 132.1 | 131.1 | 136.2 | 137.2 | 135.2 |
| 82.5° | 222.6 | 208.4 | 194.1 | 177.9 | 149.4 | 132.1 | 129.1 | 130.1 | 133.2 | 131.1 | 122.0 |
| 85° | 204.3 | 202.3 | 145.4 | 144.3 | 130.1 | 126.0 | 123.0 | 124.0 | 121.0 | 109.8 | 99.6 |
| 87.5° | 114.9 | 106.7 | 82.3 | 83.4 | 96.6 | 99.6 | 82.3 | 87.4 | 81.3 | 71.2 | 65.1 |
| 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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