

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: P159463

Luminaire Tested: **VTS-F07-LED-E1-T3-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P159463
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-F07-LED-E1-T3-8030
Description: VENTUS LED SITE LUMINAIRE
(7) LIGHTBARS WITH AccuLED OPTICS - TYPE 3
Light Source: (49) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

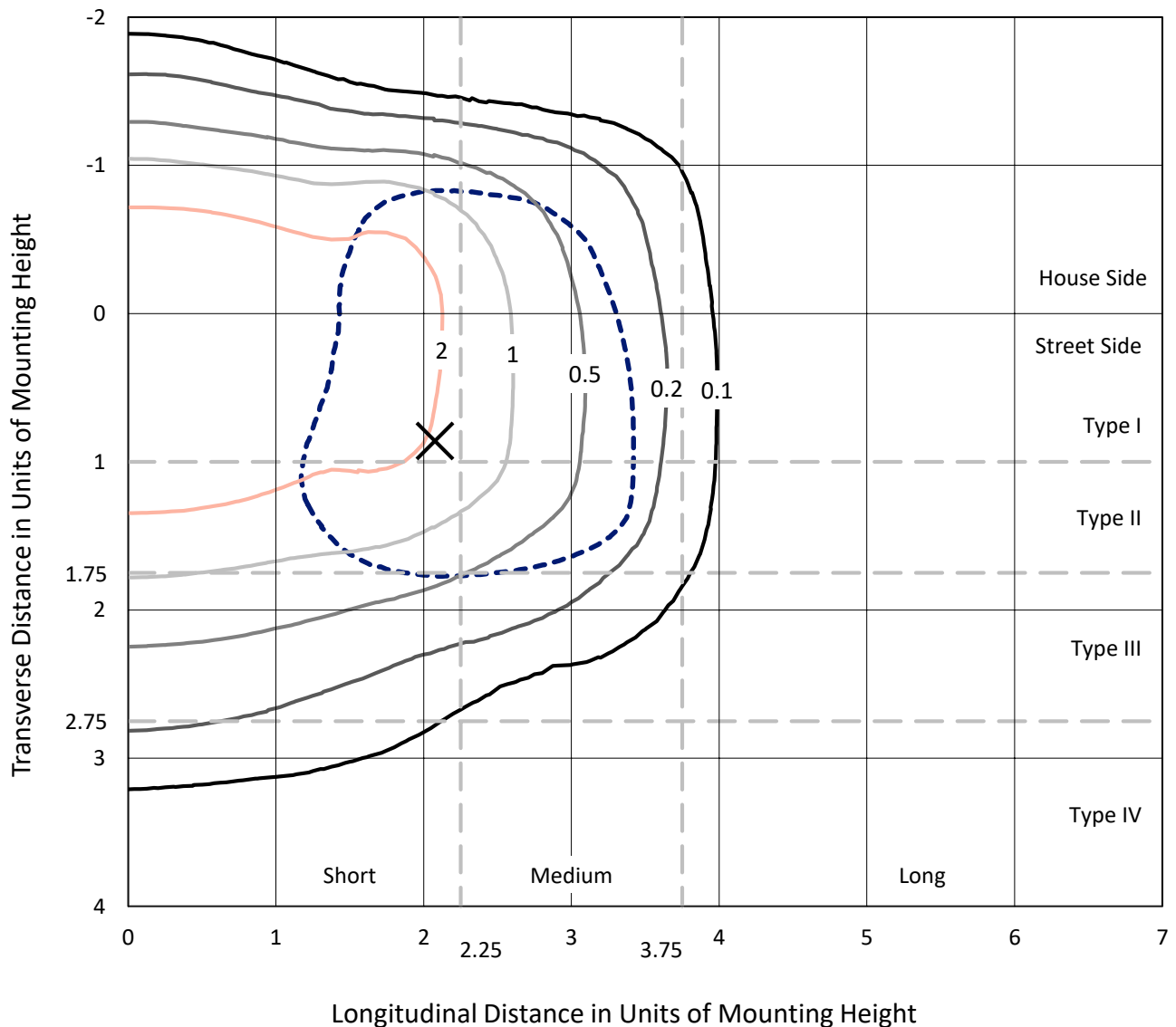
Lumens per Lamp: N/A
Luminaire Lumens: 14916.1 lumens
Efficiency: N/A
Efficacy: 82.6 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G3

Input Watts (W): 180.5
Input Voltage (V): NR
Input Current (A_{in}): 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

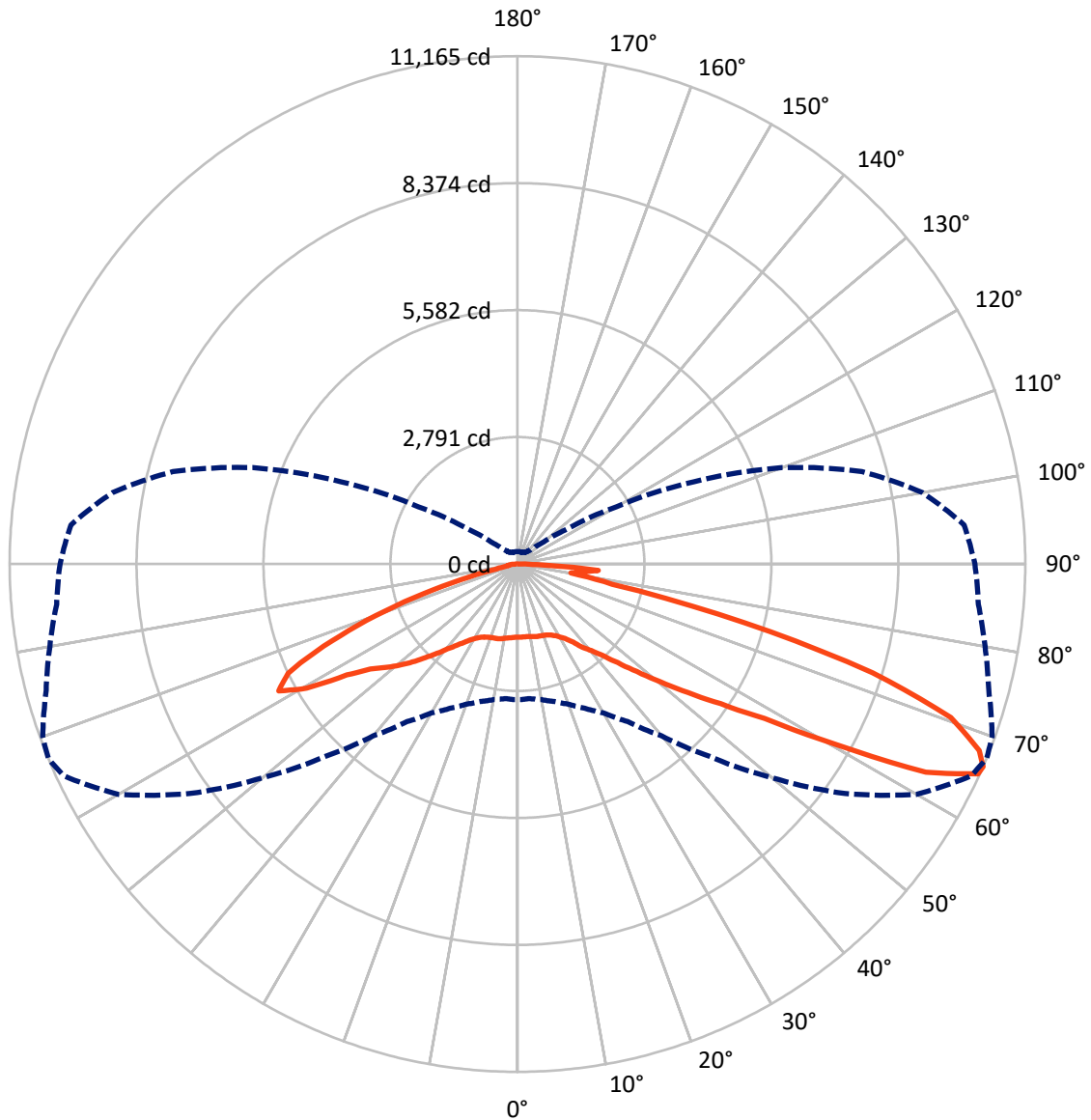


Based on 20 foot mounting height. Maximum calculated value = 4 fc
 Type II - Short - Semi-Cutoff

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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 | 5161.6 | 0.0 | 5161.6 |
| | % Fixture | 34.6 | 0.0 | 34.6 |
| Street Side | Lumens | 9754.5 | 0.0 | 9754.5 |
| | % Fixture | 65.4 | 0.0 | 65.4 |
| Total | Lumens | 14916.1 | 0.0 | 14916.1 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 154.5 | 1.0 |
| 10°-20° | 457.3 | 3.1 |
| 20°-30° | 786.2 | 5.3 |
| 30°-40° | 1270.6 | 8.5 |
| 40°-50° | 2105.6 | 14.1 |
| 50°-60° | 3304.6 | 22.2 |
| 60°-70° | 4518.0 | 30.3 |
| 70°-80° | 1986.8 | 13.3 |
| 80°-90° | 332.6 | 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° | 14916.1 | 100.0 |
| 0°-180° | 14916.1 | 100.0 |



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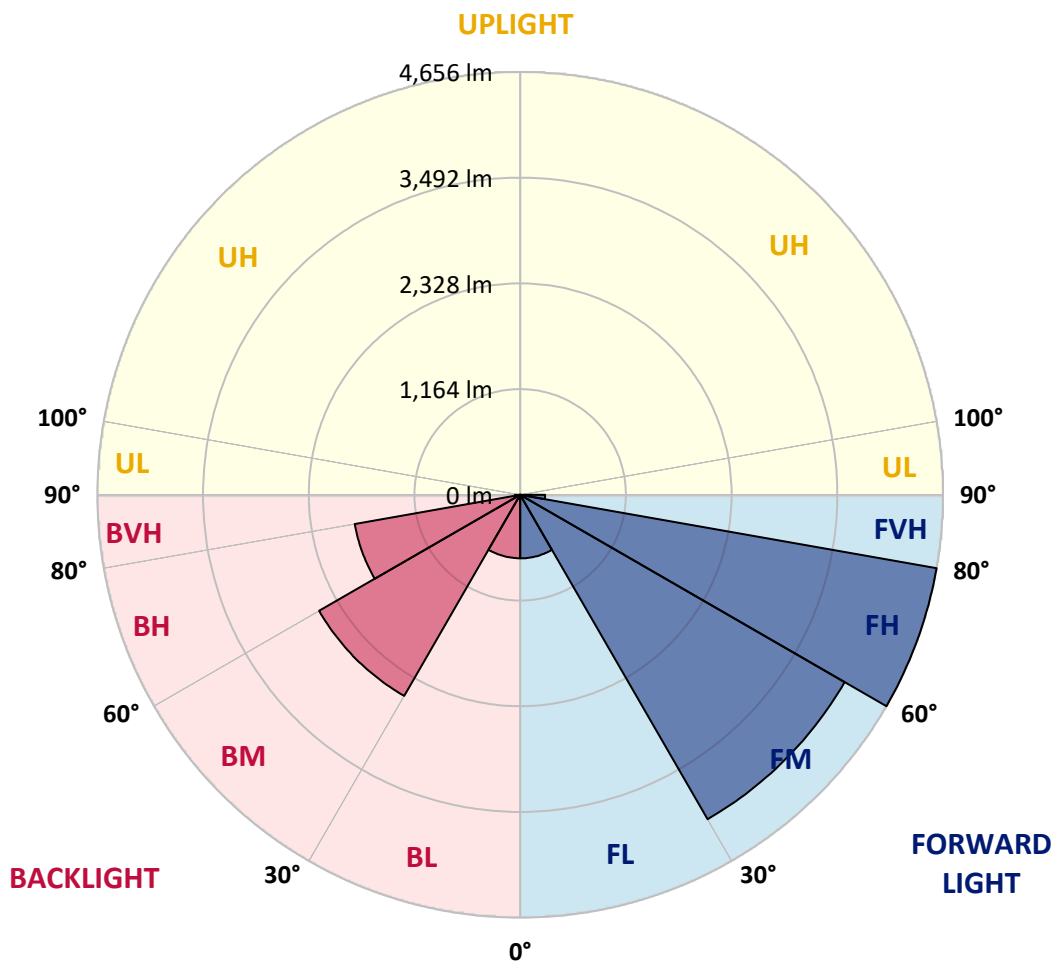
CATALOG NUMBER: VTS-F07-LED-E1-T3-8030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 699.7 | 4.7 | | | |
| FM | (30°-60°) | 4124.7 | 27.7 | | | |
| FH | (60°-80°) | 4655.6 | 31.2 | | | G2/5000 |
| FVH | (80°-90°) | 274.4 | 1.8 | | | G3/500 |
| BL | (0°-30°) | 698.2 | 4.7 | B2/1000 | | |
| BM | (30°-60°) | 2556.0 | 17.1 | B3/5000 | | |
| BH | (60°-80°) | 1849.2 | 12.4 | B3/2500 | | G3/2500 |
| BVH | (80°-90°) | 58.2 | 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° | 1609.5 | 1609.5 | 1609.5 | 1609.5 | 1609.5 | 1609.5 | 1609.5 | 1609.5 | 1609.5 | 1609.5 | 1609.5 |
| 2.5° | 1606.5 | 1606.5 | 1607.5 | 1606.5 | 1606.5 | 1605.6 | 1609.5 | 1609.5 | 1609.5 | 1608.5 | 1611.4 |
| 5° | 1602.6 | 1602.6 | 1603.6 | 1603.6 | 1604.6 | 1603.6 | 1606.5 | 1607.5 | 1607.5 | 1607.5 | 1610.4 |
| 7.5° | 1592.9 | 1595.8 | 1593.9 | 1594.8 | 1595.8 | 1598.7 | 1602.6 | 1604.6 | 1606.5 | 1609.5 | 1610.4 |
| 10° | 1572.4 | 1577.3 | 1576.3 | 1579.2 | 1580.2 | 1589.0 | 1591.9 | 1595.8 | 1602.6 | 1606.5 | 1609.5 |
| 12.5° | 1544.1 | 1547.0 | 1548.0 | 1551.9 | 1555.8 | 1566.5 | 1574.3 | 1581.2 | 1590.9 | 1600.7 | 1610.4 |
| 15° | 1521.7 | 1523.6 | 1523.6 | 1527.5 | 1533.4 | 1543.1 | 1552.9 | 1564.6 | 1579.2 | 1595.8 | 1611.4 |
| 17.5° | 1528.5 | 1533.4 | 1529.5 | 1528.5 | 1530.4 | 1536.3 | 1545.1 | 1554.8 | 1572.4 | 1590.9 | 1609.5 |
| 20° | 1573.4 | 1574.3 | 1572.4 | 1567.5 | 1563.6 | 1564.6 | 1564.6 | 1566.5 | 1577.3 | 1591.9 | 1606.5 |
| 22.5° | 1610.4 | 1614.3 | 1613.4 | 1614.3 | 1613.4 | 1617.3 | 1615.3 | 1611.4 | 1607.5 | 1608.5 | 1615.3 |
| 25° | 1642.6 | 1646.5 | 1646.5 | 1649.5 | 1654.3 | 1662.1 | 1668.0 | 1667.0 | 1661.2 | 1653.4 | 1650.4 |
| 27.5° | 1695.3 | 1695.3 | 1695.3 | 1698.2 | 1705.1 | 1714.8 | 1724.6 | 1730.4 | 1735.3 | 1727.5 | 1710.9 |
| 30° | 1778.2 | 1779.2 | 1776.3 | 1777.2 | 1782.1 | 1794.8 | 1806.5 | 1815.3 | 1825.0 | 1824.1 | 1802.6 |
| 32.5° | 1868.9 | 1872.8 | 1871.8 | 1875.8 | 1882.6 | 1894.3 | 1907.0 | 1920.6 | 1933.3 | 1941.1 | 1927.4 |
| 35° | 1986.0 | 1989.9 | 1990.9 | 1996.7 | 2004.5 | 2022.1 | 2039.6 | 2057.2 | 2070.8 | 2076.7 | 2073.8 |
| 37.5° | 2178.1 | 2179.1 | 2175.2 | 2166.4 | 2169.4 | 2183.0 | 2203.5 | 2231.8 | 2240.6 | 2246.4 | 2260.1 |
| 40° | 2465.9 | 2463.0 | 2447.4 | 2439.5 | 2434.7 | 2440.5 | 2436.6 | 2459.1 | 2479.5 | 2480.5 | 2479.5 |
| 42.5° | 2815.1 | 2806.3 | 2791.7 | 2789.7 | 2787.8 | 2785.8 | 2775.1 | 2776.1 | 2794.6 | 2799.5 | 2793.6 |
| 45° | 3162.3 | 3151.6 | 3140.9 | 3150.6 | 3138.9 | 3169.2 | 3178.0 | 3201.4 | 3204.3 | 3214.0 | 3199.4 |
| 47.5° | 3447.2 | 3448.1 | 3448.1 | 3461.8 | 3485.2 | 3542.8 | 3594.5 | 3639.3 | 3655.9 | 3679.3 | 3682.2 |
| 50° | 3662.7 | 3668.6 | 3687.1 | 3731.0 | 3780.8 | 3877.3 | 3964.1 | 4045.1 | 4118.3 | 4145.6 | 4217.8 |
| 52.5° | 3788.6 | 3804.2 | 3843.2 | 3916.4 | 4005.1 | 4130.0 | 4266.5 | 4404.1 | 4530.9 | 4638.2 | 4724.0 |
| 55° | 3766.1 | 3777.8 | 3846.1 | 3960.2 | 4098.8 | 4266.5 | 4457.7 | 4656.7 | 4854.7 | 5036.1 | 5176.6 |
| 57.5° | 3621.8 | 3629.6 | 3697.9 | 3826.6 | 3999.3 | 4224.6 | 4494.8 | 4790.3 | 5068.3 | 5361.0 | 5600.9 |
| 60° | 3432.5 | 3444.2 | 3507.6 | 3609.1 | 3789.5 | 4029.5 | 4342.6 | 4743.5 | 5187.3 | 5647.7 | 6096.4 |
| 62.5° | 3311.6 | 3308.7 | 3364.3 | 3455.0 | 3590.6 | 3808.1 | 4109.5 | 4584.5 | 5199.0 | 5977.4 | 6864.1 |
| 65° | 3110.6 | 3101.9 | 3159.4 | 3262.8 | 3410.1 | 3620.8 | 3906.6 | 4363.1 | 5076.1 | 6102.3 | 7359.6 |
| 66° | 2985.8 | 2968.2 | 3025.8 | 3130.2 | 3277.4 | 3501.8 | 3775.9 | 4226.5 | 4926.9 | 5980.4 | 7306.9 |
| 67.5° | 2767.3 | 2758.5 | 2785.8 | 2867.8 | 2977.0 | 3187.7 | 3473.5 | 3927.1 | 4573.8 | 5613.6 | 6920.7 |
| 70° | 2249.3 | 2229.8 | 2251.3 | 2288.4 | 2330.3 | 2382.0 | 2557.6 | 2917.5 | 3464.7 | 4472.3 | 5575.6 |
| 72.5° | 1532.4 | 1522.6 | 1562.6 | 1619.2 | 1731.4 | 1784.1 | 1853.3 | 1911.8 | 2105.0 | 2819.0 | 3889.0 |
| 75° | 1165.6 | 1171.5 | 1222.2 | 1315.9 | 1460.2 | 1616.3 | 1768.5 | 1824.1 | 1759.7 | 1704.1 | 2207.4 |
| 77.5° | 653.5 | 687.7 | 749.1 | 868.1 | 1021.3 | 1241.7 | 1507.0 | 1799.7 | 1946.0 | 1909.9 | 1786.0 |
| 80° | 269.2 | 264.3 | 294.6 | 359.9 | 412.6 | 593.1 | 907.1 | 1273.9 | 1685.5 | 1946.0 | 1905.0 |
| 82.5° | 75.1 | 77.1 | 99.5 | 127.8 | 164.8 | 209.7 | 327.7 | 526.7 | 858.4 | 1335.4 | 1748.0 |
| 85° | 23.4 | 23.4 | 32.2 | 47.8 | 56.6 | 65.4 | 82.9 | 136.6 | 233.1 | 465.3 | 943.2 |
| 87.5° | 4.9 | 4.9 | 6.8 | 13.7 | 14.6 | 14.6 | 18.5 | 25.4 | 22.4 | 20.5 | 91.7 |
| 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):

| | 55° | 60° | 65° | 67.5° | 70° | 75° | 80° | 85° | 90° | 95° | 100° |
|-------|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|
| 0° | 1609.5 | 1609.5 | 1609.5 | 1609.5 | 1609.5 | 1609.5 | 1609.5 | 1609.5 | 1609.5 | 1609.5 | 1609.5 |
| 2.5° | 1608.5 | 1606.5 | 1607.5 | 1608.5 | 1607.5 | 1607.5 | 1606.5 | 1605.6 | 1606.5 | 1606.5 | 1609.5 |
| 5° | 1607.5 | 1606.5 | 1607.5 | 1607.5 | 1607.5 | 1608.5 | 1608.5 | 1608.5 | 1611.4 | 1611.4 | 1616.3 |
| 7.5° | 1609.5 | 1609.5 | 1611.4 | 1611.4 | 1611.4 | 1611.4 | 1612.4 | 1614.3 | 1619.2 | 1618.2 | 1627.0 |
| 10° | 1613.4 | 1615.3 | 1620.2 | 1621.2 | 1621.2 | 1624.1 | 1626.0 | 1629.9 | 1634.8 | 1636.8 | 1644.6 |
| 12.5° | 1618.2 | 1628.0 | 1636.8 | 1638.7 | 1641.6 | 1646.5 | 1649.5 | 1651.4 | 1660.2 | 1663.1 | 1672.9 |
| 15° | 1624.1 | 1637.7 | 1648.5 | 1652.4 | 1656.3 | 1662.1 | 1666.0 | 1669.0 | 1676.8 | 1680.7 | 1692.4 |
| 17.5° | 1625.1 | 1640.7 | 1653.4 | 1659.2 | 1664.1 | 1670.9 | 1676.8 | 1682.6 | 1691.4 | 1697.2 | 1709.0 |
| 20° | 1624.1 | 1644.6 | 1664.1 | 1671.9 | 1676.8 | 1689.4 | 1698.2 | 1706.0 | 1716.8 | 1722.6 | 1734.3 |
| 22.5° | 1634.8 | 1658.2 | 1684.6 | 1694.3 | 1702.1 | 1719.7 | 1731.4 | 1744.1 | 1757.7 | 1761.6 | 1770.4 |
| 25° | 1660.2 | 1684.6 | 1717.7 | 1731.4 | 1745.0 | 1768.5 | 1785.0 | 1803.6 | 1817.2 | 1819.2 | 1822.1 |
| 27.5° | 1703.1 | 1725.5 | 1765.5 | 1786.0 | 1808.4 | 1841.6 | 1866.0 | 1884.5 | 1904.0 | 1904.0 | 1902.1 |
| 30° | 1789.9 | 1794.8 | 1836.7 | 1863.1 | 1896.2 | 1945.0 | 1981.1 | 2001.6 | 2016.2 | 2016.2 | 1999.6 |
| 32.5° | 1902.1 | 1896.2 | 1934.3 | 1962.6 | 2008.4 | 2076.7 | 2125.5 | 2141.1 | 2156.7 | 2151.8 | 2123.5 |
| 35° | 2064.0 | 2047.4 | 2068.9 | 2111.8 | 2163.5 | 2257.1 | 2307.9 | 2343.0 | 2352.7 | 2339.1 | 2294.2 |
| 37.5° | 2267.9 | 2265.9 | 2276.7 | 2324.4 | 2382.0 | 2503.0 | 2554.7 | 2577.1 | 2569.3 | 2544.9 | 2465.9 |
| 40° | 2483.4 | 2477.6 | 2470.8 | 2503.0 | 2567.3 | 2712.7 | 2804.4 | 2816.1 | 2805.3 | 2769.2 | 2669.8 |
| 42.5° | 2771.2 | 2771.2 | 2739.0 | 2747.8 | 2801.4 | 2964.3 | 3072.6 | 3109.7 | 3110.6 | 3058.0 | 2925.3 |
| 45° | 3167.2 | 3163.3 | 3106.7 | 3093.1 | 3134.1 | 3294.0 | 3433.5 | 3454.0 | 3454.0 | 3384.7 | 3239.4 |
| 47.5° | 3643.2 | 3638.4 | 3582.8 | 3535.0 | 3542.8 | 3715.4 | 3831.5 | 3862.7 | 3835.4 | 3783.7 | 3611.0 |
| 50° | 4179.7 | 4170.9 | 4114.4 | 4069.5 | 4050.0 | 4224.6 | 4323.1 | 4337.7 | 4297.7 | 4236.3 | 4049.0 |
| 52.5° | 4724.0 | 4750.3 | 4717.2 | 4692.8 | 4699.6 | 4812.8 | 4914.2 | 4845.0 | 4824.5 | 4758.1 | 4569.9 |
| 55° | 5290.7 | 5371.7 | 5444.8 | 5423.4 | 5448.8 | 5559.0 | 5578.5 | 5486.8 | 5449.7 | 5401.9 | 5192.2 |
| 57.5° | 5861.4 | 6097.4 | 6337.4 | 6404.7 | 6467.1 | 6625.1 | 6602.7 | 6452.5 | 6480.8 | 6552.0 | 6315.9 |
| 60° | 6658.3 | 7340.1 | 7948.8 | 8061.0 | 8255.1 | 8389.7 | 8419.9 | 8390.6 | 8522.3 | 8485.3 | 8276.5 |
| 62.5° | 7882.4 | 9018.8 | 9865.5 | 10076.2 | 10271.3 | 10264.4 | 10162.0 | 10056.7 | 10186.4 | 10186.4 | 9641.1 |
| 65° | 8756.4 | 10046.0 | 10952.1 | 11126.7 | 11118.9 | 10883.8 | 10641.9 | 10431.2 | 10412.7 | 10268.3 | 9471.4 |
| 66° | 8797.4 | 10125.0 | 11012.6 | 11164.8 | 11106.2 | 10727.8 | 10438.1 | 10170.8 | 10056.7 | 9855.7 | 9039.3 |
| 67.5° | 8428.7 | 9901.6 | 10815.6 | 10948.2 | 10794.1 | 10251.8 | 9852.8 | 9494.8 | 9329.0 | 8990.5 | 8221.9 |
| 70° | 6913.8 | 8509.6 | 9839.2 | 10110.3 | 9935.7 | 9249.0 | 8702.8 | 8219.0 | 7902.0 | 7413.3 | 6859.2 |
| 72.5° | 5046.9 | 6282.7 | 7722.5 | 8163.4 | 8136.1 | 7504.0 | 7064.1 | 6621.2 | 6204.7 | 5759.9 | 5355.1 |
| 75° | 3280.4 | 4087.1 | 4889.8 | 5147.3 | 5023.5 | 4657.7 | 4342.6 | 4084.1 | 3689.1 | 3379.9 | 3304.8 |
| 77.5° | 1872.8 | 2288.4 | 2164.5 | 2132.3 | 1977.2 | 1595.8 | 1061.3 | 744.3 | 672.1 | 838.9 | 919.8 |
| 80° | 1782.1 | 1615.3 | 1322.7 | 1193.0 | 1096.4 | 747.2 | 392.1 | 276.0 | 241.9 | 247.8 | 266.3 |
| 82.5° | 2009.4 | 2094.2 | 1712.9 | 1431.0 | 1245.6 | 909.1 | 496.5 | 231.2 | 168.7 | 200.0 | 224.3 |
| 85° | 1506.1 | 2120.6 | 2102.1 | 1781.1 | 1461.2 | 1047.6 | 587.2 | 176.6 | 101.4 | 140.5 | 183.4 |
| 87.5° | 305.3 | 502.3 | 483.8 | 425.3 | 361.9 | 252.6 | 98.5 | 55.6 | 50.7 | 69.3 | 105.3 |
| 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° | 1609.5 | 1609.5 | 1609.5 | 1609.5 | 1609.5 | 1609.5 | 1609.5 | 1609.5 | 1609.5 | 1609.5 | 1609.5 |
| 2.5° | 1611.4 | 1611.4 | 1613.4 | 1616.3 | 1617.3 | 1617.3 | 1619.2 | 1617.3 | 1621.2 | 1622.1 | 1623.1 |
| 5° | 1620.2 | 1623.1 | 1625.1 | 1629.9 | 1632.9 | 1634.8 | 1637.7 | 1635.8 | 1639.7 | 1640.7 | 1642.6 |
| 7.5° | 1629.9 | 1634.8 | 1638.7 | 1640.7 | 1644.6 | 1644.6 | 1645.6 | 1643.6 | 1642.6 | 1639.7 | 1638.7 |
| 10° | 1647.5 | 1650.4 | 1655.3 | 1653.4 | 1651.4 | 1644.6 | 1638.7 | 1629.9 | 1625.1 | 1616.3 | 1611.4 |
| 12.5° | 1675.8 | 1677.7 | 1677.7 | 1669.0 | 1656.3 | 1640.7 | 1626.0 | 1611.4 | 1599.7 | 1590.0 | 1584.1 |
| 15° | 1695.3 | 1699.2 | 1694.3 | 1681.6 | 1663.1 | 1641.6 | 1622.1 | 1602.6 | 1587.0 | 1574.3 | 1566.5 |
| 17.5° | 1709.9 | 1709.0 | 1700.2 | 1682.6 | 1665.1 | 1646.5 | 1629.0 | 1608.5 | 1589.0 | 1570.4 | 1558.7 |
| 20° | 1732.4 | 1722.6 | 1707.0 | 1688.5 | 1669.9 | 1654.3 | 1640.7 | 1621.2 | 1600.7 | 1575.3 | 1557.8 |
| 22.5° | 1762.6 | 1745.0 | 1722.6 | 1703.1 | 1685.5 | 1670.9 | 1655.3 | 1638.7 | 1617.3 | 1589.0 | 1564.6 |
| 25° | 1805.5 | 1775.3 | 1749.9 | 1730.4 | 1714.8 | 1698.2 | 1680.7 | 1659.2 | 1637.7 | 1608.5 | 1579.2 |
| 27.5° | 1870.9 | 1826.0 | 1793.8 | 1776.3 | 1761.6 | 1739.2 | 1716.8 | 1691.4 | 1664.1 | 1633.8 | 1600.7 |
| 30° | 1949.9 | 1896.2 | 1859.2 | 1843.6 | 1826.0 | 1800.6 | 1776.3 | 1741.1 | 1703.1 | 1667.0 | 1626.0 |
| 32.5° | 2042.5 | 1987.9 | 1950.9 | 1939.2 | 1910.9 | 1881.6 | 1847.5 | 1800.6 | 1750.9 | 1697.2 | 1648.5 |
| 35° | 2183.0 | 2113.8 | 2079.6 | 2052.3 | 2013.3 | 1978.2 | 1920.6 | 1859.2 | 1788.0 | 1716.8 | 1656.3 |
| 37.5° | 2327.4 | 2257.1 | 2222.0 | 2184.0 | 2133.3 | 2068.9 | 1991.8 | 1904.0 | 1809.4 | 1721.6 | 1647.5 |
| 40° | 2520.5 | 2444.4 | 2399.6 | 2341.0 | 2259.1 | 2158.6 | 2044.5 | 1924.5 | 1809.4 | 1700.2 | 1610.4 |
| 42.5° | 2745.8 | 2675.6 | 2606.3 | 2509.8 | 2378.1 | 2231.8 | 2071.8 | 1917.7 | 1778.2 | 1652.4 | 1557.8 |
| 45° | 3058.0 | 2938.0 | 2827.8 | 2672.7 | 2480.5 | 2274.7 | 2074.7 | 1885.5 | 1724.6 | 1585.1 | 1479.7 |
| 47.5° | 3409.1 | 3254.0 | 3058.9 | 2816.1 | 2553.7 | 2291.3 | 2046.5 | 1825.0 | 1639.7 | 1488.5 | 1373.4 |
| 50° | 3813.9 | 3575.9 | 3276.5 | 2930.2 | 2590.7 | 2268.8 | 1979.1 | 1723.6 | 1522.6 | 1349.0 | 1226.1 |
| 52.5° | 4277.3 | 3914.4 | 3473.5 | 3011.2 | 2584.9 | 2200.6 | 1867.9 | 1590.0 | 1365.6 | 1181.2 | 1060.3 |
| 55° | 4791.3 | 4283.1 | 3661.8 | 3062.8 | 2532.2 | 2067.9 | 1693.3 | 1401.7 | 1170.5 | 989.1 | 882.8 |
| 57.5° | 5697.5 | 4929.8 | 4020.7 | 3132.1 | 2422.0 | 1867.0 | 1471.9 | 1163.7 | 954.9 | 800.8 | 699.4 |
| 60° | 7381.1 | 6060.3 | 4700.6 | 3295.0 | 2256.2 | 1615.3 | 1193.0 | 913.0 | 738.4 | 626.2 | 551.1 |
| 62.5° | 8422.8 | 6856.3 | 5032.2 | 3271.6 | 1987.0 | 1271.0 | 885.7 | 676.9 | 539.4 | 465.3 | 418.5 |
| 65° | 8176.1 | 6544.2 | 4627.4 | 2810.2 | 1546.1 | 901.3 | 586.2 | 442.8 | 370.7 | 332.6 | 310.2 |
| 66° | 7840.5 | 6195.0 | 4285.1 | 2516.6 | 1347.1 | 753.0 | 483.8 | 371.6 | 319.0 | 290.7 | 279.0 |
| 67.5° | 7137.2 | 5557.0 | 3695.9 | 2015.2 | 1009.6 | 560.9 | 357.0 | 291.7 | 259.5 | 244.8 | 237.0 |
| 70° | 5973.5 | 4477.2 | 2614.2 | 1190.0 | 547.2 | 304.3 | 228.3 | 202.9 | 195.1 | 190.2 | 187.3 |
| 72.5° | 4618.7 | 3241.4 | 1527.5 | 585.3 | 276.0 | 197.0 | 173.6 | 162.9 | 160.0 | 160.0 | 160.9 |
| 75° | 2909.7 | 1863.1 | 683.8 | 281.9 | 187.3 | 159.0 | 148.3 | 143.4 | 144.4 | 145.3 | 144.4 |
| 77.5° | 966.7 | 642.8 | 284.8 | 200.0 | 162.9 | 144.4 | 135.6 | 133.6 | 135.6 | 136.6 | 136.6 |
| 80° | 278.0 | 242.9 | 205.8 | 176.6 | 149.2 | 134.6 | 126.8 | 125.8 | 130.7 | 131.7 | 129.7 |
| 82.5° | 213.6 | 200.0 | 186.3 | 170.7 | 143.4 | 126.8 | 123.9 | 124.9 | 127.8 | 125.8 | 117.1 |
| 85° | 196.1 | 194.1 | 139.5 | 138.5 | 124.9 | 121.0 | 118.0 | 119.0 | 116.1 | 105.3 | 95.6 |
| 87.5° | 110.2 | 102.4 | 79.0 | 80.0 | 92.7 | 95.6 | 79.0 | 83.9 | 78.0 | 68.3 | 62.4 |
| 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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