

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: P159226

Luminaire Tested: **VTS-F05-LED-E1-T2-7050**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P159226  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33705)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: VTS-F05-LED-E1-T2-7050  
Description: VENTUS LED SITE LUMINAIRE  
(5) LIGHTBARS WITH AccuLED OPTICS - TYPE 2  
Light Source: (35) 5000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

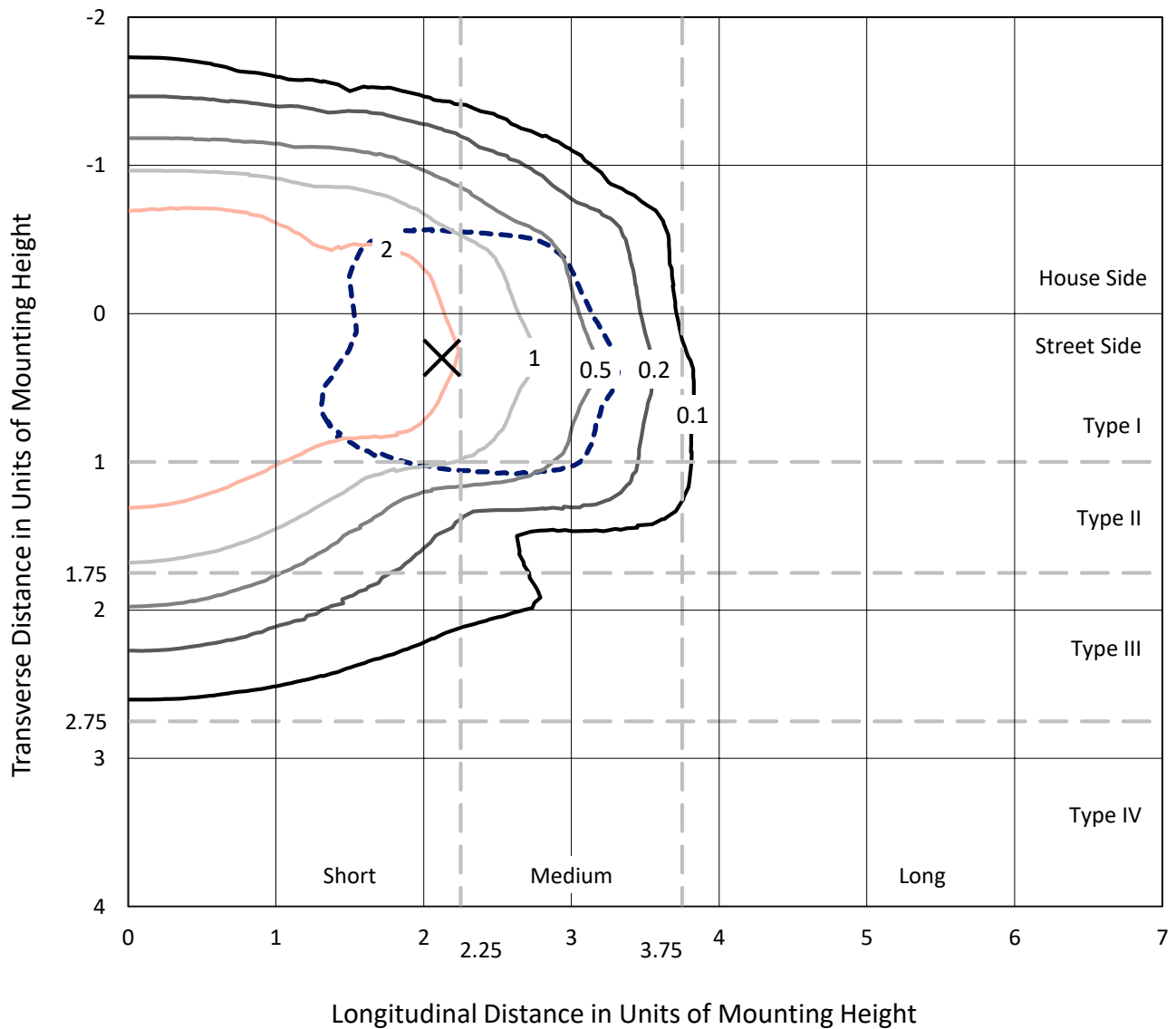
Lumens per Lamp: N/A  
Luminaire Lumens: 13073.4 lumens  
Efficiency: N/A  
Efficacy: 98.1 lumens/watt  
Luminous Opening: Rectangular (W 0.83' x L: 1' x H: 0')  
IES Classification: Type II - Short - Semi-Cutoff  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 133.3  
Input Voltage (V): NR  
Input Current (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: 25 FT

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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

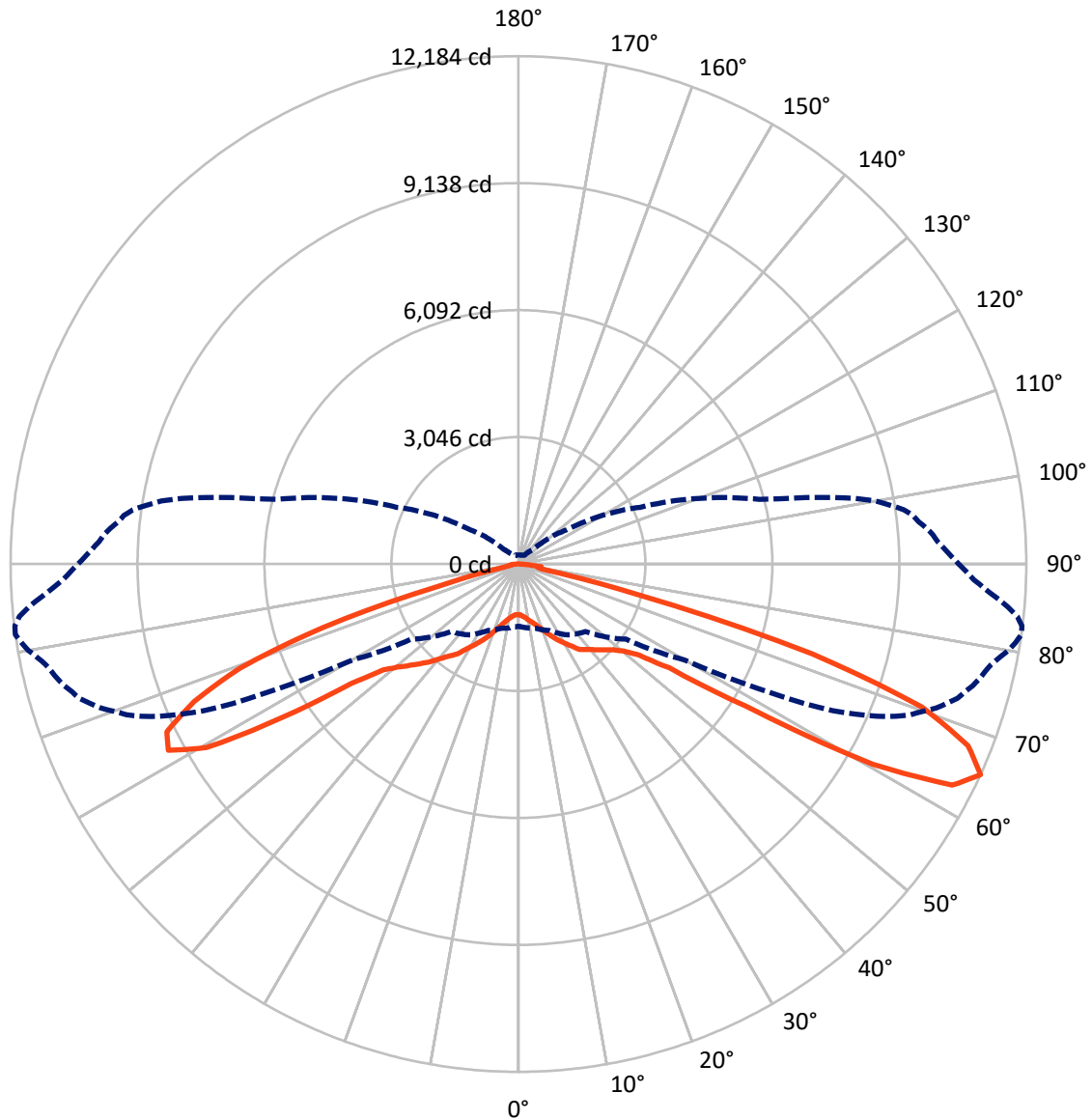


Based on 20 foot mounting height. Maximum calculated value = 3.9 fc  
 Type II - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 4867.7   | 0.0    | 4867.7  |
|                    | % Fixture | 37.2     | 0.0    | 37.2    |
| <b>Street Side</b> | Lumens    | 8205.8   | 0.0    | 8205.8  |
|                    | % Fixture | 62.8     | 0.0    | 62.8    |
| <b>Total</b>       | Lumens    | 13073.4  | 0.0    | 13073.4 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 123.1   | 0.9       |
| 10°-20°   | 432.7   | 3.3       |
| 20°-30°   | 857.4   | 6.6       |
| 30°-40°   | 1469.7  | 11.2      |
| 40°-50°   | 2207.9  | 16.9      |
| 50°-60°   | 3067.5  | 23.5      |
| 60°-70°   | 3499.5  | 26.8      |
| 70°-80°   | 1205.5  | 9.2       |
| 80°-90°   | 210.1   | 1.6       |
| 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°    | 13073.4 | 100.0     |
| 0°-180°   | 13073.4 | 100.0     |



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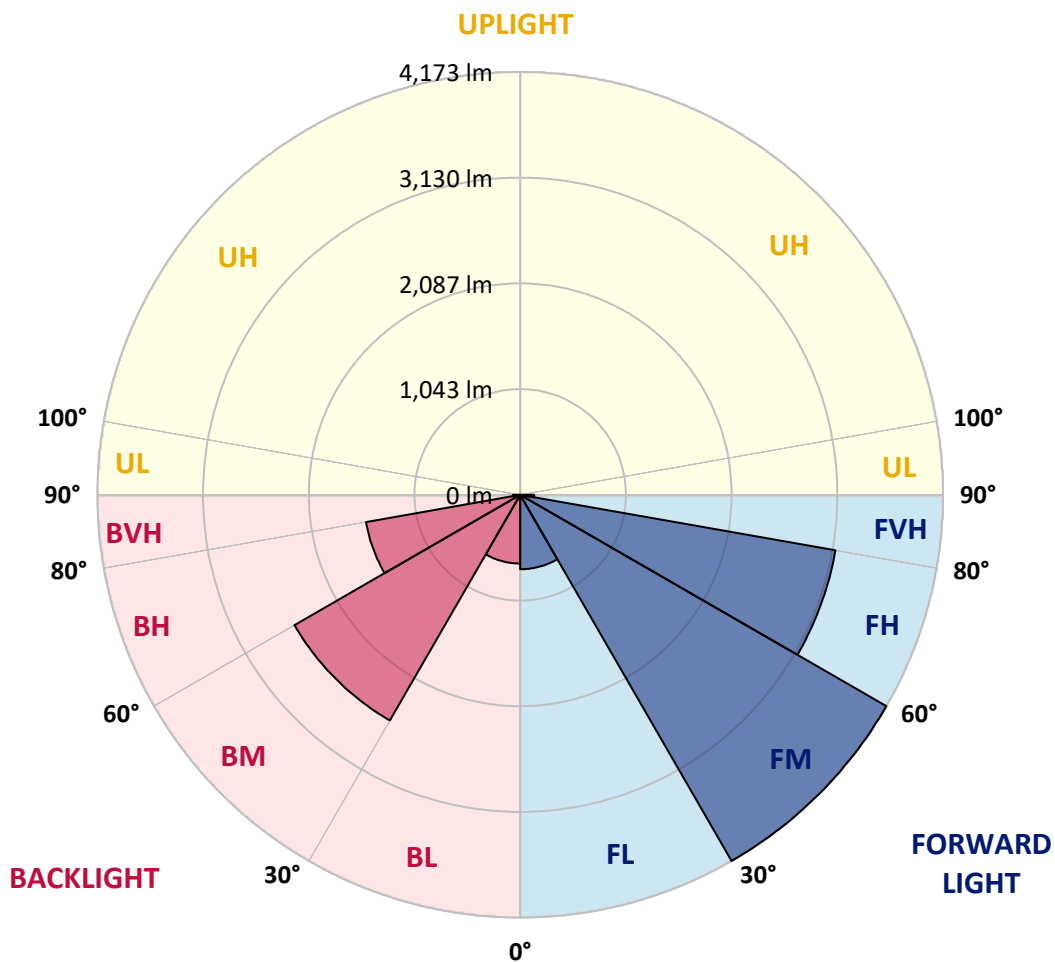
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 734.4  | 5.6       |                         |      |         |
| FM   | (30°-60°)   | 4173.3 | 31.9      |                         |      |         |
| FH   | (60°-80°)   | 3159.7 | 24.2      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 138.3  | 1.1       |                         |      | G2/225  |
| BL   | (0°-30°)    | 678.8  | 5.2       | B2/1000                 |      |         |
| BM   | (30°-60°)   | 2571.7 | 19.7      | B3/5000                 |      |         |
| BH   | (60°-80°)   | 1545.3 | 11.8      | B3/2500                 |      | G3/2500 |
| BVH  | (80°-90°)   | 71.8   | 0.5       |                         |      | 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°     | 15°    | 25°    | 35°    | 45°    | 55°    | 60°    | 61°    | 62°    | 64°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1216.4 | 1216.4 | 1216.4 | 1216.4 | 1216.4 | 1216.4 | 1216.4 | 1216.4 | 1216.4 | 1216.4 | 1216.4 |
| 2.5°  | 1282.5 | 1283.3 | 1282.5 | 1279.9 | 1279.1 | 1271.5 | 1263.0 | 1258.8 | 1257.9 | 1254.5 | 1255.4 |
| 5°    | 1362.1 | 1359.6 | 1356.2 | 1351.9 | 1347.7 | 1335.0 | 1320.6 | 1313.0 | 1310.4 | 1307.9 | 1304.5 |
| 7.5°  | 1433.3 | 1434.9 | 1433.3 | 1427.3 | 1416.3 | 1400.2 | 1381.6 | 1369.7 | 1368.9 | 1366.3 | 1363.8 |
| 10°   | 1524.7 | 1529.0 | 1518.8 | 1508.6 | 1493.4 | 1468.8 | 1447.7 | 1432.4 | 1429.9 | 1426.5 | 1424.8 |
| 12.5° | 1623.8 | 1624.7 | 1621.3 | 1598.4 | 1573.0 | 1539.1 | 1508.6 | 1493.4 | 1490.0 | 1485.8 | 1484.1 |
| 15°   | 1729.7 | 1730.6 | 1711.9 | 1689.9 | 1651.0 | 1610.3 | 1567.9 | 1551.0 | 1546.8 | 1547.6 | 1540.8 |
| 17.5° | 1813.6 | 1815.3 | 1797.5 | 1769.5 | 1723.0 | 1674.7 | 1628.9 | 1615.4 | 1612.8 | 1613.7 | 1610.3 |
| 20°   | 1850.0 | 1852.6 | 1841.5 | 1820.4 | 1776.3 | 1734.0 | 1700.9 | 1692.5 | 1691.6 | 1689.9 | 1696.7 |
| 22.5° | 1848.3 | 1849.2 | 1844.9 | 1836.5 | 1810.2 | 1785.6 | 1781.4 | 1786.5 | 1785.6 | 1787.3 | 1793.3 |
| 25°   | 1833.1 | 1835.6 | 1834.8 | 1838.2 | 1833.9 | 1843.2 | 1862.7 | 1880.5 | 1883.0 | 1886.4 | 1897.4 |
| 27.5° | 1872.0 | 1877.1 | 1871.2 | 1874.6 | 1881.4 | 1912.7 | 1952.5 | 1979.6 | 1984.7 | 1994.0 | 2003.3 |
| 30°   | 2024.5 | 2017.7 | 2010.1 | 2001.6 | 2005.9 | 2025.4 | 2070.3 | 2094.0 | 2096.5 | 2103.3 | 2116.0 |
| 32.5° | 2250.7 | 2243.1 | 2236.3 | 2222.7 | 2219.3 | 2210.9 | 2226.1 | 2232.0 | 2231.2 | 2238.0 | 2241.4 |
| 35°   | 2505.6 | 2506.5 | 2504.8 | 2515.0 | 2523.4 | 2480.2 | 2426.9 | 2412.5 | 2418.4 | 2410.8 | 2412.5 |
| 37.5° | 2723.3 | 2725.9 | 2770.8 | 2826.7 | 2842.8 | 2815.7 | 2698.8 | 2641.2 | 2621.7 | 2619.2 | 2599.7 |
| 40°   | 2964.8 | 2964.8 | 3032.5 | 3101.1 | 3146.0 | 3179.9 | 3041.0 | 2939.4 | 2897.8 | 2886.0 | 2837.7 |
| 42.5° | 3229.9 | 3216.3 | 3278.2 | 3353.6 | 3436.6 | 3513.7 | 3441.7 | 3327.3 | 3268.0 | 3246.8 | 3162.1 |
| 45°   | 3447.6 | 3439.1 | 3469.6 | 3539.9 | 3674.6 | 3825.4 | 3835.6 | 3777.1 | 3741.5 | 3697.5 | 3619.6 |
| 47.5° | 3581.4 | 3577.2 | 3595.0 | 3671.2 | 3839.8 | 4083.8 | 4220.1 | 4249.8 | 4228.6 | 4194.7 | 4119.3 |
| 50°   | 3634.0 | 3628.0 | 3640.7 | 3725.4 | 3914.3 | 4236.2 | 4537.8 | 4677.6 | 4687.7 | 4695.3 | 4671.6 |
| 52.5° | 3615.3 | 3607.7 | 3634.0 | 3705.1 | 3901.6 | 4289.6 | 4786.0 | 5054.5 | 5099.4 | 5137.5 | 5215.4 |
| 55°   | 3436.6 | 3424.7 | 3495.9 | 3629.7 | 3846.6 | 4270.1 | 4967.3 | 5417.0 | 5511.9 | 5613.6 | 5786.4 |
| 57.5° | 3163.0 | 3152.8 | 3255.3 | 3439.1 | 3749.2 | 4216.7 | 5089.2 | 5875.3 | 6088.8 | 6271.7 | 6762.2 |
| 60°   | 2899.5 | 2891.1 | 2951.2 | 3129.1 | 3433.2 | 3956.7 | 4938.5 | 6029.5 | 6387.8 | 6782.5 | 7677.9 |
| 62.5° | 2428.6 | 2405.7 | 2486.2 | 2636.1 | 2828.4 | 3273.1 | 4280.3 | 5686.4 | 6238.7 | 6819.0 | 8032.8 |
| 65°   | 1492.5 | 1525.6 | 1595.0 | 1761.1 | 2076.2 | 2288.0 | 3143.5 | 4600.5 | 5329.0 | 6056.6 | 7631.3 |
| 67.5° | 947.9  | 957.2  | 1008.9 | 1124.1 | 1368.0 | 1580.6 | 1905.1 | 2886.8 | 3448.4 | 4164.2 | 5991.4 |
| 70°   | 812.3  | 818.3  | 862.3  | 982.6  | 1151.2 | 1412.9 | 1441.7 | 1507.8 | 1709.4 | 2165.1 | 3522.1 |
| 72.5° | 640.4  | 650.6  | 685.3  | 789.5  | 992.8  | 1274.0 | 1779.7 | 1191.8 | 1151.2 | 1189.3 | 1718.7 |
| 75°   | 381.2  | 393.0  | 421.8  | 478.6  | 637.8  | 974.1  | 1864.4 | 1386.7 | 1292.6 | 1218.9 | 1185.9 |
| 77.5° | 201.6  | 193.1  | 212.6  | 245.7  | 327.8  | 519.3  | 1401.1 | 1699.2 | 1633.2 | 1545.1 | 1357.9 |
| 80°   | 100.0  | 103.3  | 109.3  | 116.0  | 146.5  | 210.9  | 700.5  | 1757.7 | 1948.3 | 2033.0 | 1867.0 |
| 82.5° | 39.8   | 44.9   | 63.5   | 67.8   | 80.5   | 89.8   | 225.3  | 974.1  | 1395.1 | 1892.4 | 2470.9 |
| 85°   | 20.3   | 19.5   | 33.9   | 40.7   | 47.4   | 42.4   | 79.6   | 363.4  | 653.9  | 1019.0 | 1651.0 |
| 87.5° | 2.5    | 3.4    | 7.6    | 10.2   | 14.4   | 13.6   | 22.9   | 78.8   | 125.4  | 177.9  | 249.9  |
| 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):**

|       | 65°    | 66°    | 67°    | 68°    | 69°     | 70°     | 71°     | 72°     | 73°     | 74°     | 75°     |
|-------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 1216.4 | 1216.4 | 1216.4 | 1216.4 | 1216.4  | 1216.4  | 1216.4  | 1216.4  | 1216.4  | 1216.4  | 1216.4  |
| 2.5°  | 1251.1 | 1250.3 | 1250.3 | 1246.9 | 1246.9  | 1247.7  | 1245.2  | 1243.5  | 1243.5  | 1244.4  | 1241.0  |
| 5°    | 1302.0 | 1299.4 | 1299.4 | 1296.0 | 1291.8  | 1291.8  | 1288.4  | 1287.6  | 1285.9  | 1282.5  | 1279.9  |
| 7.5°  | 1361.3 | 1358.7 | 1354.5 | 1351.9 | 1350.2  | 1347.7  | 1343.5  | 1341.8  | 1338.4  | 1335.0  | 1331.6  |
| 10°   | 1422.2 | 1418.9 | 1417.2 | 1412.9 | 1411.2  | 1406.1  | 1403.6  | 1404.5  | 1397.7  | 1395.1  | 1396.0  |
| 12.5° | 1483.2 | 1479.8 | 1473.9 | 1472.2 | 1471.4  | 1466.3  | 1463.7  | 1462.1  | 1457.0  | 1456.1  | 1453.6  |
| 15°   | 1537.4 | 1539.1 | 1536.6 | 1532.4 | 1529.0  | 1528.1  | 1525.6  | 1523.9  | 1520.5  | 1517.1  | 1513.7  |
| 17.5° | 1607.7 | 1610.3 | 1606.9 | 1601.0 | 1601.0  | 1600.1  | 1601.0  | 1600.1  | 1594.2  | 1596.7  | 1595.0  |
| 20°   | 1697.5 | 1699.2 | 1690.8 | 1693.3 | 1695.0  | 1694.2  | 1696.7  | 1699.2  | 1697.5  | 1697.5  | 1700.1  |
| 22.5° | 1800.9 | 1803.4 | 1798.3 | 1801.7 | 1806.8  | 1802.6  | 1810.2  | 1809.4  | 1811.0  | 1813.6  | 1814.4  |
| 25°   | 1906.8 | 1911.8 | 1907.6 | 1916.9 | 1913.5  | 1916.9  | 1926.2  | 1923.7  | 1927.9  | 1934.7  | 1937.3  |
| 27.5° | 2012.7 | 2016.0 | 2016.9 | 2022.8 | 2028.7  | 2033.8  | 2045.7  | 2045.7  | 2049.1  | 2060.9  | 2060.9  |
| 30°   | 2123.6 | 2127.0 | 2130.4 | 2138.9 | 2142.3  | 2151.6  | 2163.4  | 2166.8  | 2165.1  | 2182.1  | 2187.1  |
| 32.5° | 2251.5 | 2254.9 | 2260.8 | 2271.0 | 2275.2  | 2284.6  | 2284.6  | 2293.9  | 2300.7  | 2315.1  | 2315.9  |
| 35°   | 2421.8 | 2424.3 | 2421.8 | 2420.9 | 2426.9  | 2439.6  | 2440.4  | 2454.0  | 2459.9  | 2474.3  | 2478.5  |
| 37.5° | 2592.1 | 2591.2 | 2580.2 | 2568.3 | 2569.2  | 2564.1  | 2560.7  | 2566.6  | 2569.2  | 2570.0  | 2579.3  |
| 40°   | 2821.6 | 2799.6 | 2782.6 | 2753.0 | 2739.4  | 2718.3  | 2705.6  | 2704.7  | 2691.2  | 2689.5  | 2692.0  |
| 42.5° | 3122.3 | 3096.9 | 3057.1 | 3007.1 | 2969.0  | 2930.0  | 2901.2  | 2884.3  | 2854.6  | 2839.4  | 2826.7  |
| 45°   | 3542.5 | 3479.8 | 3432.4 | 3373.1 | 3299.4  | 3231.6  | 3160.4  | 3128.3  | 3071.5  | 3036.8  | 2997.8  |
| 47.5° | 4055.8 | 3994.0 | 3921.1 | 3860.1 | 3763.6  | 3669.5  | 3572.1  | 3486.6  | 3387.5  | 3308.7  | 3244.3  |
| 50°   | 4613.2 | 4576.7 | 4524.2 | 4467.5 | 4343.0  | 4281.1  | 4158.3  | 4042.2  | 3935.5  | 3794.9  | 3672.1  |
| 52.5° | 5184.9 | 5206.1 | 5194.3 | 5173.9 | 5095.2  | 5071.4  | 4965.6  | 4824.1  | 4716.5  | 4620.0  | 4406.5  |
| 55°   | 5889.7 | 5915.1 | 5966.0 | 5995.6 | 5986.3  | 6046.4  | 6020.2  | 5910.0  | 5866.8  | 5822.0  | 5670.3  |
| 57.5° | 6968.0 | 7149.3 | 7343.3 | 7513.6 | 7553.4  | 7766.8  | 7721.1  | 7831.2  | 7909.1  | 7853.2  | 7804.1  |
| 60°   | 8117.5 | 8483.5 | 8813.0 | 9157.7 | 9438.1  | 9648.2  | 9926.0  | 10113.2 | 10231.0 | 10442.7 | 10459.7 |
| 62.5° | 8580.9 | 9078.1 | 9496.6 | 9896.4 | 10229.3 | 10520.7 | 10771.4 | 11029.8 | 11241.5 | 11433.0 | 11571.1 |
| 65°   | 8326.8 | 8846.0 | 9353.4 | 9759.2 | 10079.4 | 10330.1 | 10602.8 | 10807.8 | 11016.2 | 11139.0 | 11283.9 |
| 67.5° | 6922.3 | 7610.1 | 8234.4 | 8691.8 | 9129.8  | 9384.8  | 9707.5  | 9909.1  | 10130.2 | 10259.8 | 10353.0 |
| 70°   | 4513.2 | 5408.6 | 6261.6 | 6955.3 | 7546.6  | 7843.9  | 8233.6  | 8508.9  | 8774.9  | 8781.6  | 8936.6  |
| 72.5° | 2435.3 | 3184.2 | 3898.2 | 4607.2 | 5281.5  | 5677.1  | 6061.7  | 6396.3  | 6660.6  | 6547.9  | 6702.1  |
| 75°   | 1356.2 | 1706.9 | 2097.4 | 2523.4 | 2934.3  | 3160.4  | 3447.6  | 3449.3  | 3585.7  | 3371.4  | 3425.6  |
| 77.5° | 1304.5 | 1288.4 | 1294.3 | 1306.2 | 1326.5  | 1283.3  | 1282.5  | 1256.2  | 1215.6  | 1141.9  | 1154.6  |
| 80°   | 1713.6 | 1508.6 | 1361.3 | 1130.0 | 909.8   | 742.0   | 695.4   | 706.5   | 739.5   | 805.6   | 889.4   |
| 82.5° | 2477.7 | 2304.9 | 2057.5 | 1693.3 | 1329.1  | 1025.0  | 842.0   | 747.1   | 742.9   | 809.0   | 936.0   |
| 85°   | 1804.3 | 1908.5 | 1892.4 | 1579.8 | 1302.8  | 1058.0  | 770.0   | 650.6   | 538.7   | 512.5   | 557.4   |
| 87.5° | 266.0  | 220.2  | 248.2  | 207.5  | 150.8   | 116.9   | 102.5   | 82.2    | 78.8    | 80.5    | 88.1    |
| 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):**

|       | 76°     | 77°     | 78°     | 79°     | 80°     | 81°     | 82°     | 83°     | 84°     | 85°     | 86°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 1216.4  | 1216.4  | 1216.4  | 1216.4  | 1216.4  | 1216.4  | 1216.4  | 1216.4  | 1216.4  | 1216.4  | 1216.4  |
| 2.5°  | 1241.8  | 1238.4  | 1235.0  | 1237.6  | 1235.0  | 1234.2  | 1231.6  | 1230.0  | 1229.1  | 1229.1  | 1229.1  |
| 5°    | 1279.9  | 1275.7  | 1273.2  | 1272.3  | 1269.8  | 1267.2  | 1266.4  | 1262.1  | 1261.3  | 1261.3  | 1258.8  |
| 7.5°  | 1331.6  | 1328.2  | 1324.0  | 1321.4  | 1319.7  | 1315.5  | 1311.3  | 1310.4  | 1309.6  | 1306.2  | 1303.6  |
| 10°   | 1391.7  | 1386.7  | 1381.6  | 1381.6  | 1378.2  | 1377.3  | 1373.1  | 1367.2  | 1366.3  | 1361.3  | 1359.6  |
| 12.5° | 1448.5  | 1446.8  | 1440.9  | 1439.2  | 1436.6  | 1434.1  | 1431.6  | 1429.0  | 1426.5  | 1422.2  | 1423.9  |
| 15°   | 1516.3  | 1512.0  | 1506.9  | 1507.8  | 1506.9  | 1503.6  | 1500.2  | 1497.6  | 1495.9  | 1494.2  | 1494.2  |
| 17.5° | 1597.6  | 1595.9  | 1595.0  | 1590.8  | 1587.4  | 1590.0  | 1590.0  | 1590.0  | 1585.7  | 1586.6  | 1587.4  |
| 20°   | 1700.9  | 1702.6  | 1700.9  | 1697.5  | 1696.7  | 1699.2  | 1693.3  | 1702.6  | 1697.5  | 1694.2  | 1695.8  |
| 22.5° | 1815.3  | 1821.2  | 1814.4  | 1815.3  | 1819.5  | 1821.2  | 1815.3  | 1822.9  | 1820.4  | 1815.3  | 1819.5  |
| 25°   | 1939.8  | 1944.0  | 1940.7  | 1939.8  | 1942.3  | 1948.3  | 1947.4  | 1946.6  | 1952.5  | 1947.4  | 1950.0  |
| 27.5° | 2067.7  | 2070.3  | 2071.9  | 2074.5  | 2076.2  | 2075.3  | 2078.7  | 2078.7  | 2082.1  | 2076.2  | 2078.7  |
| 30°   | 2194.8  | 2194.8  | 2198.2  | 2201.5  | 2201.5  | 2201.5  | 2208.3  | 2209.2  | 2204.1  | 2205.8  | 2199.9  |
| 32.5° | 2330.3  | 2331.2  | 2334.5  | 2334.5  | 2341.3  | 2342.2  | 2349.8  | 2339.6  | 2349.8  | 2341.3  | 2343.0  |
| 35°   | 2489.6  | 2500.6  | 2502.3  | 2510.7  | 2517.5  | 2520.0  | 2520.0  | 2520.9  | 2530.2  | 2523.4  | 2526.0  |
| 37.5° | 2582.7  | 2585.3  | 2592.1  | 2596.3  | 2596.3  | 2599.7  | 2602.2  | 2599.7  | 2602.2  | 2601.4  | 2603.9  |
| 40°   | 2692.9  | 2690.3  | 2697.9  | 2699.6  | 2696.2  | 2700.5  | 2699.6  | 2697.1  | 2703.9  | 2698.8  | 2702.2  |
| 42.5° | 2826.7  | 2812.3  | 2811.4  | 2818.2  | 2811.4  | 2814.8  | 2814.0  | 2808.1  | 2816.5  | 2819.1  | 2816.5  |
| 45°   | 2969.8  | 2962.2  | 2947.0  | 2947.0  | 2940.2  | 2937.7  | 2938.5  | 2937.7  | 2938.5  | 2948.7  | 2952.1  |
| 47.5° | 3202.8  | 3156.2  | 3129.9  | 3105.4  | 3085.0  | 3084.2  | 3074.9  | 3080.0  | 3086.7  | 3103.7  | 3118.9  |
| 50°   | 3593.3  | 3485.7  | 3419.6  | 3358.7  | 3314.6  | 3299.4  | 3281.6  | 3279.9  | 3285.8  | 3305.3  | 3331.5  |
| 52.5° | 4289.6  | 4140.5  | 3999.9  | 3869.4  | 3755.9  | 3668.7  | 3625.5  | 3602.6  | 3594.1  | 3613.6  | 3639.0  |
| 55°   | 5563.6  | 5282.4  | 5084.1  | 4952.0  | 4669.9  | 4550.5  | 4397.2  | 4326.9  | 4258.2  | 4265.0  | 4308.2  |
| 57.5° | 7740.6  | 7589.0  | 7422.9  | 7191.7  | 7018.9  | 6810.5  | 6427.6  | 6214.1  | 6223.5  | 6273.4  | 6117.6  |
| 60°   | 10593.5 | 10440.2 | 10371.6 | 10161.5 | 10041.2 | 9957.4  | 9754.1  | 9400.0  | 9274.6  | 9250.9  | 8964.6  |
| 62.5° | 11676.9 | 11713.4 | 11767.6 | 11826.9 | 11823.5 | 11859.9 | 11682.0 | 11566.8 | 11422.0 | 11233.9 | 10951.0 |
| 65°   | 11394.0 | 11486.3 | 11596.5 | 11755.7 | 11937.0 | 12070.8 | 12183.5 | 12169.9 | 12034.4 | 11783.7 | 11484.7 |
| 67.5° | 10436.0 | 10527.5 | 10607.9 | 10821.4 | 11118.7 | 11390.6 | 11631.2 | 11794.7 | 11704.0 | 11496.5 | 11147.5 |
| 70°   | 8995.9  | 9062.0  | 9112.8  | 9298.3  | 9624.5  | 9956.5  | 10270.8 | 10545.2 | 10517.3 | 10265.7 | 9987.0  |
| 72.5° | 6518.2  | 6678.3  | 6764.7  | 6752.0  | 6953.6  | 7325.5  | 7369.6  | 7604.2  | 7669.4  | 7398.4  | 6954.5  |
| 75°   | 3175.7  | 3178.2  | 3078.3  | 3045.2  | 3055.4  | 3119.8  | 2997.0  | 3004.6  | 2962.2  | 2769.9  | 2611.5  |
| 77.5° | 1109.7  | 1079.2  | 1006.3  | 919.9   | 796.3   | 680.2   | 562.5   | 511.6   | 494.7   | 444.7   | 410.0   |
| 80°   | 956.3   | 1001.2  | 986.8   | 915.7   | 785.2   | 626.0   | 467.6   | 346.5   | 295.6   | 277.8   | 260.9   |
| 82.5° | 1086.0  | 1258.8  | 1368.9  | 1362.9  | 1184.2  | 889.4   | 554.8   | 318.5   | 227.0   | 199.1   | 183.0   |
| 85°   | 605.7   | 651.4   | 664.1   | 604.8   | 502.3   | 343.1   | 191.4   | 134.7   | 114.4   | 104.2   | 94.0    |
| 87.5° | 96.6    | 88.1    | 86.4    | 75.4    | 71.2    | 65.2    | 57.6    | 54.2    | 50.0    | 47.4    | 47.4    |
| 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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CATALOG NUMBER: VTS-F05-LED-E1-T2-7050

**CANDELA DISTRIBUTION (continued):**

|       | 87°     | 88°     | 89°     | 90°     | 91°     | 92°     | 93°     | 94°    | 95°    | 96°    | 97°    |
|-------|---------|---------|---------|---------|---------|---------|---------|--------|--------|--------|--------|
| 0°    | 1216.4  | 1216.4  | 1216.4  | 1216.4  | 1216.4  | 1216.4  | 1216.4  | 1216.4 | 1216.4 | 1216.4 | 1216.4 |
| 2.5°  | 1228.3  | 1227.4  | 1224.9  | 1222.3  | 1220.6  | 1219.8  | 1218.9  | 1217.2 | 1216.4 | 1215.6 | 1213.9 |
| 5°    | 1257.1  | 1255.4  | 1251.1  | 1246.9  | 1245.2  | 1242.7  | 1240.1  | 1238.4 | 1236.7 | 1235.9 | 1232.5 |
| 7.5°  | 1302.0  | 1300.3  | 1295.2  | 1291.8  | 1290.9  | 1284.2  | 1283.3  | 1280.8 | 1276.5 | 1275.7 | 1270.6 |
| 10°   | 1356.2  | 1355.3  | 1351.1  | 1348.5  | 1346.9  | 1343.5  | 1338.4  | 1334.1 | 1329.9 | 1329.9 | 1326.5 |
| 12.5° | 1418.9  | 1415.5  | 1418.0  | 1412.1  | 1410.4  | 1407.0  | 1404.5  | 1403.6 | 1398.5 | 1394.3 | 1393.4 |
| 15°   | 1492.5  | 1488.3  | 1488.3  | 1486.6  | 1484.9  | 1481.5  | 1480.7  | 1481.5 | 1476.5 | 1478.1 | 1473.1 |
| 17.5° | 1584.0  | 1585.7  | 1584.9  | 1584.9  | 1580.6  | 1580.6  | 1573.9  | 1582.3 | 1576.4 | 1580.6 | 1578.9 |
| 20°   | 1698.4  | 1699.2  | 1697.5  | 1700.1  | 1701.8  | 1700.9  | 1700.1  | 1699.2 | 1701.8 | 1705.2 | 1702.6 |
| 22.5° | 1820.4  | 1820.4  | 1819.5  | 1828.8  | 1818.7  | 1826.3  | 1828.8  | 1823.8 | 1837.3 | 1835.6 | 1838.2 |
| 25°   | 1952.5  | 1952.5  | 1959.3  | 1966.9  | 1968.6  | 1962.7  | 1966.1  | 1961.8 | 1970.3 | 1977.1 | 1978.8 |
| 27.5° | 2075.3  | 2086.3  | 2091.4  | 2086.3  | 2090.6  | 2099.9  | 2099.1  | 2099.1 | 2105.0 | 2103.3 | 2119.4 |
| 30°   | 2201.5  | 2208.3  | 2215.1  | 2211.7  | 2213.4  | 2225.3  | 2226.1  | 2227.0 | 2234.6 | 2245.6 | 2257.5 |
| 32.5° | 2345.6  | 2352.3  | 2348.9  | 2360.0  | 2359.1  | 2373.5  | 2376.0  | 2378.6 | 2402.3 | 2398.1 | 2422.6 |
| 35°   | 2522.6  | 2529.4  | 2526.0  | 2537.8  | 2536.1  | 2541.2  | 2550.5  | 2560.7 | 2564.9 | 2589.5 | 2609.0 |
| 37.5° | 2605.6  | 2605.6  | 2613.2  | 2626.8  | 2631.9  | 2640.3  | 2654.7  | 2667.4 | 2688.6 | 2714.9 | 2745.4 |
| 40°   | 2705.6  | 2708.1  | 2718.3  | 2732.7  | 2742.0  | 2761.5  | 2787.7  | 2805.5 | 2837.7 | 2866.5 | 2902.1 |
| 42.5° | 2826.7  | 2837.7  | 2849.6  | 2869.0  | 2889.4  | 2919.9  | 2957.1  | 2980.0 | 3022.4 | 3059.6 | 3103.7 |
| 45°   | 2968.2  | 2979.2  | 3007.1  | 3042.7  | 3072.3  | 3106.2  | 3136.7  | 3190.9 | 3229.1 | 3268.0 | 3306.1 |
| 47.5° | 3139.3  | 3171.5  | 3194.3  | 3236.7  | 3273.1  | 3318.0  | 3356.1  | 3406.9 | 3448.4 | 3495.9 | 3528.1 |
| 50°   | 3358.7  | 3398.5  | 3428.1  | 3483.2  | 3518.8  | 3568.7  | 3617.0  | 3655.1 | 3697.5 | 3744.1 | 3770.3 |
| 52.5° | 3673.8  | 3714.4  | 3751.7  | 3820.3  | 3864.4  | 3898.2  | 3962.6  | 4010.1 | 4049.0 | 4082.9 | 4111.7 |
| 55°   | 4356.5  | 4344.7  | 4448.0  | 4581.0  | 4596.2  | 4719.1  | 4741.9  | 4781.7 | 4853.7 | 4863.9 | 4944.4 |
| 57.5° | 6307.3  | 6246.3  | 6396.3  | 6591.1  | 6557.2  | 6495.4  | 6753.7  | 6769.8 | 6733.4 | 6830.8 | 6720.7 |
| 60°   | 9007.0  | 8900.2  | 8940.9  | 8994.2  | 8917.2  | 8880.7  | 8893.4  | 8929.9 | 8894.3 | 8855.3 | 8748.6 |
| 62.5° | 10809.5 | 10645.2 | 10527.5 | 10428.3 | 10303.0 | 10212.3 | 10110.7 | 9985.3 | 9951.4 | 9809.1 | 9689.7 |
| 65°   | 11194.1 | 10938.3 | 10751.9 | 10564.7 | 10391.9 | 10231.8 | 10078.5 | 9970.9 | 9828.6 | 9660.1 | 9535.5 |
| 67.5° | 10771.4 | 10454.6 | 10181.8 | 9909.9  | 9714.3  | 9478.8  | 9363.6  | 9188.2 | 9012.9 | 8819.8 | 8705.4 |
| 70°   | 9543.2  | 9212.8  | 8869.7  | 8603.7  | 8337.8  | 8046.4  | 7989.6  | 7782.1 | 7681.3 | 7417.8 | 7372.1 |
| 72.5° | 6586.9  | 6366.6  | 6213.3  | 5884.6  | 5722.8  | 5573.8  | 5526.3  | 5334.0 | 5354.4 | 5065.5 | 5170.5 |
| 75°   | 2342.2  | 2310.8  | 2265.9  | 2080.4  | 2047.4  | 1989.8  | 1974.5  | 1961.0 | 2098.2 | 1907.6 | 2045.7 |
| 77.5° | 402.4   | 399.8   | 376.9   | 365.9   | 387.1   | 373.6   | 376.9   | 370.2  | 410.0  | 415.9  | 406.6  |
| 80°   | 249.9   | 243.1   | 235.5   | 230.4   | 231.3   | 226.2   | 227.0   | 228.7  | 231.3  | 230.4  | 232.9  |
| 82.5° | 171.1   | 165.2   | 161.8   | 158.4   | 163.5   | 165.2   | 169.4   | 173.7  | 180.4  | 184.7  | 189.7  |
| 85°   | 93.2    | 85.6    | 85.6    | 84.7    | 91.5    | 96.6    | 103.3   | 111.8  | 123.7  | 133.8  | 144.8  |
| 87.5° | 47.4    | 45.7    | 46.6    | 48.3    | 54.2    | 58.4    | 66.9    | 74.5   | 84.7   | 95.7   | 105.9  |
| 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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CATALOG NUMBER: VTS-F05-LED-E1-T2-7050

**CANDELA DISTRIBUTION (continued):**

|       | 98°    | 99°    | 100°   | 101°   | 102°   | 103°   | 104°   | 105°   | 115°   | 125°   | 135°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1216.4 | 1216.4 | 1216.4 | 1216.4 | 1216.4 | 1216.4 | 1216.4 | 1216.4 | 1216.4 | 1216.4 | 1216.4 |
| 2.5°  | 1213.0 | 1213.0 | 1212.2 | 1212.2 | 1211.3 | 1210.5 | 1209.6 | 1207.1 | 1197.8 | 1189.3 | 1183.4 |
| 5°    | 1231.6 | 1229.1 | 1228.3 | 1225.7 | 1224.9 | 1223.2 | 1220.6 | 1218.1 | 1201.2 | 1185.9 | 1174.9 |
| 7.5°  | 1269.8 | 1266.4 | 1264.7 | 1262.1 | 1259.6 | 1256.2 | 1252.8 | 1250.3 | 1230.0 | 1212.2 | 1198.6 |
| 10°   | 1319.7 | 1318.0 | 1317.2 | 1313.8 | 1313.8 | 1308.7 | 1307.9 | 1302.0 | 1279.9 | 1263.8 | 1252.0 |
| 12.5° | 1389.2 | 1385.8 | 1385.0 | 1380.7 | 1382.4 | 1380.7 | 1379.0 | 1375.7 | 1359.6 | 1340.9 | 1324.8 |
| 15°   | 1475.6 | 1475.6 | 1471.4 | 1468.0 | 1468.8 | 1467.1 | 1470.5 | 1466.3 | 1456.1 | 1439.2 | 1412.9 |
| 17.5° | 1579.8 | 1578.1 | 1579.8 | 1577.3 | 1578.9 | 1580.6 | 1576.4 | 1577.3 | 1572.2 | 1551.0 | 1512.0 |
| 20°   | 1700.9 | 1698.4 | 1708.6 | 1704.3 | 1713.6 | 1705.2 | 1706.9 | 1709.4 | 1709.4 | 1681.4 | 1628.9 |
| 22.5° | 1839.8 | 1838.2 | 1838.2 | 1846.6 | 1850.0 | 1850.9 | 1854.2 | 1856.8 | 1863.6 | 1828.0 | 1744.1 |
| 25°   | 1978.8 | 1984.7 | 1985.5 | 1996.6 | 2001.6 | 2001.6 | 2004.2 | 2013.5 | 2033.8 | 1984.7 | 1876.3 |
| 27.5° | 2120.2 | 2134.6 | 2138.0 | 2145.6 | 2153.3 | 2160.9 | 2166.8 | 2173.6 | 2206.6 | 2153.3 | 2011.8 |
| 30°   | 2261.7 | 2277.8 | 2289.6 | 2298.1 | 2307.4 | 2326.1 | 2329.5 | 2343.0 | 2398.1 | 2332.8 | 2140.6 |
| 32.5° | 2427.7 | 2450.6 | 2465.8 | 2476.8 | 2491.2 | 2509.0 | 2519.2 | 2536.1 | 2589.5 | 2482.8 | 2234.6 |
| 35°   | 2625.9 | 2639.5 | 2661.5 | 2680.1 | 2688.6 | 2719.1 | 2735.2 | 2739.4 | 2780.1 | 2612.4 | 2304.0 |
| 37.5° | 2763.2 | 2786.0 | 2824.2 | 2850.4 | 2865.7 | 2882.6 | 2909.7 | 2927.5 | 2966.5 | 2730.1 | 2338.8 |
| 40°   | 2937.7 | 2972.4 | 3002.9 | 3041.8 | 3066.4 | 3079.1 | 3106.2 | 3120.6 | 3125.7 | 2830.9 | 2327.8 |
| 42.5° | 3150.3 | 3181.6 | 3222.3 | 3253.6 | 3272.3 | 3286.7 | 3308.7 | 3314.6 | 3248.5 | 2878.4 | 2268.5 |
| 45°   | 3350.2 | 3398.5 | 3433.2 | 3456.1 | 3469.6 | 3477.2 | 3490.8 | 3491.6 | 3350.2 | 2854.6 | 2166.8 |
| 47.5° | 3565.3 | 3600.1 | 3632.3 | 3648.4 | 3646.7 | 3648.4 | 3643.3 | 3639.9 | 3401.0 | 2772.5 | 2036.4 |
| 50°   | 3803.4 | 3826.2 | 3839.8 | 3847.4 | 3851.7 | 3835.6 | 3812.7 | 3797.4 | 3405.2 | 2655.6 | 1904.2 |
| 52.5° | 4122.7 | 4151.5 | 4149.0 | 4148.1 | 4114.2 | 4099.0 | 4038.0 | 4006.7 | 3380.7 | 2518.4 | 1755.1 |
| 55°   | 4931.7 | 4903.7 | 4848.7 | 4875.8 | 4737.7 | 4665.7 | 4570.8 | 4482.7 | 3412.9 | 2387.9 | 1582.3 |
| 57.5° | 6764.7 | 6775.8 | 6619.0 | 6535.2 | 6302.2 | 6010.8 | 5776.2 | 5548.3 | 3702.6 | 2308.3 | 1357.0 |
| 60°   | 8677.4 | 8533.4 | 8334.4 | 8031.1 | 7731.3 | 7298.4 | 6880.8 | 6486.1 | 3991.4 | 2225.3 | 1090.2 |
| 62.5° | 9512.7 | 9307.7 | 9007.0 | 8614.8 | 8143.8 | 7614.4 | 7094.3 | 6613.1 | 3851.7 | 1956.7 | 792.9  |
| 65°   | 9343.2 | 9029.8 | 8697.8 | 8238.7 | 7666.0 | 7085.8 | 6478.4 | 5987.1 | 3222.3 | 1459.5 | 488.8  |
| 67.5° | 8457.2 | 8191.2 | 7840.5 | 7295.9 | 6683.4 | 6079.5 | 5522.9 | 4972.3 | 2393.8 | 909.8  | 273.6  |
| 70°   | 7138.3 | 6878.3 | 6522.5 | 5965.1 | 5353.5 | 4775.8 | 4186.2 | 3737.3 | 1525.6 | 438.8  | 197.4  |
| 72.5° | 4952.0 | 4741.1 | 4489.5 | 4092.2 | 3556.0 | 3030.8 | 2631.9 | 2287.1 | 845.4  | 232.9  | 180.4  |
| 75°   | 2011.0 | 2011.8 | 1966.1 | 1798.3 | 1519.7 | 1310.4 | 1117.3 | 947.9  | 353.2  | 198.2  | 177.9  |
| 77.5° | 455.7  | 463.4  | 506.6  | 480.3  | 432.9  | 404.9  | 362.5  | 320.2  | 215.2  | 204.1  | 179.6  |
| 80°   | 230.4  | 231.3  | 228.7  | 229.6  | 227.0  | 227.9  | 224.5  | 221.9  | 201.6  | 210.1  | 179.6  |
| 82.5° | 192.3  | 196.5  | 195.7  | 195.7  | 196.5  | 196.5  | 196.5  | 195.7  | 209.2  | 221.1  | 173.7  |
| 85°   | 152.5  | 160.9  | 167.7  | 174.5  | 182.1  | 187.2  | 189.7  | 192.3  | 203.3  | 217.7  | 157.6  |
| 87.5° | 115.2  | 125.4  | 133.8  | 140.6  | 152.5  | 152.5  | 160.9  | 166.9  | 166.9  | 170.3  | 83.0   |
| 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):**

|       | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1216.4 | 1216.4 | 1216.4 | 1216.4 | 1216.4 |
| 2.5°  | 1174.9 | 1171.5 | 1168.1 | 1166.4 | 1163.0 |
| 5°    | 1166.4 | 1159.6 | 1155.4 | 1155.4 | 1152.0 |
| 7.5°  | 1191.0 | 1188.4 | 1182.5 | 1179.1 | 1182.5 |
| 10°   | 1243.5 | 1239.3 | 1232.5 | 1227.4 | 1230.0 |
| 12.5° | 1313.8 | 1296.9 | 1283.3 | 1277.4 | 1273.2 |
| 15°   | 1386.7 | 1352.8 | 1325.7 | 1310.4 | 1306.2 |
| 17.5° | 1464.6 | 1405.3 | 1364.6 | 1341.8 | 1337.5 |
| 20°   | 1544.2 | 1470.5 | 1412.9 | 1383.3 | 1382.4 |
| 22.5° | 1639.9 | 1541.7 | 1468.0 | 1429.0 | 1426.5 |
| 25°   | 1740.7 | 1605.2 | 1507.8 | 1457.8 | 1452.7 |
| 27.5° | 1828.0 | 1656.0 | 1532.4 | 1473.1 | 1468.0 |
| 30°   | 1900.8 | 1694.2 | 1552.7 | 1484.1 | 1477.3 |
| 32.5° | 1953.4 | 1716.2 | 1561.2 | 1487.5 | 1479.8 |
| 35°   | 1970.3 | 1707.7 | 1537.4 | 1457.0 | 1448.5 |
| 37.5° | 1947.4 | 1652.6 | 1471.4 | 1382.4 | 1372.3 |
| 40°   | 1878.8 | 1556.1 | 1363.8 | 1272.3 | 1259.6 |
| 42.5° | 1773.8 | 1437.5 | 1234.2 | 1146.9 | 1130.8 |
| 45°   | 1644.2 | 1303.6 | 1105.4 | 1008.0 | 1000.4 |
| 47.5° | 1508.6 | 1163.0 | 960.6  | 872.5  | 863.2  |
| 50°   | 1362.1 | 1000.4 | 819.1  | 723.4  | 723.4  |
| 52.5° | 1187.6 | 842.0  | 654.8  | 582.8  | 576.9  |
| 55°   | 986.8  | 663.3  | 521.8  | 466.7  | 459.1  |
| 57.5° | 770.8  | 509.9  | 416.8  | 384.6  | 376.1  |
| 60°   | 566.7  | 382.9  | 335.4  | 317.7  | 314.3  |
| 62.5° | 384.6  | 291.4  | 270.2  | 262.6  | 261.7  |
| 65°   | 260.1  | 227.0  | 221.1  | 218.5  | 219.4  |
| 67.5° | 199.9  | 188.9  | 186.4  | 185.5  | 185.5  |
| 70°   | 173.7  | 166.9  | 164.3  | 165.2  | 164.3  |
| 72.5° | 163.5  | 154.2  | 155.0  | 156.7  | 155.9  |
| 75°   | 160.1  | 148.2  | 151.6  | 152.5  | 149.1  |
| 77.5° | 157.6  | 141.5  | 149.9  | 152.5  | 143.2  |
| 80°   | 152.5  | 135.5  | 155.9  | 156.7  | 140.6  |
| 82.5° | 139.8  | 120.3  | 155.9  | 144.0  | 127.1  |
| 85°   | 118.6  | 91.5   | 176.2  | 125.4  | 94.0   |
| 87.5° | 75.4   | 54.2   | 119.4  | 85.6   | 56.8   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)