

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: P162253

Luminaire Tested: **OVF-F05-LED-E-U-T4-7050**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P162253  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33696)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: OVF-F05-LED-E-U-T4-7050  
Description: OVF LED ROADWAY LARGE CUTOFF COBRAHEAD LUMINAIRE  
(5) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 SHORT  
Light Source: (35) 5000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12446.1 lumens  
Efficiency: N/A  
Efficacy: 93.4 lumens/watt  
Luminous Opening: Rectangular (W 0.83' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Semi-Cutoff  
BUG Rating: B2 - U0 - G3

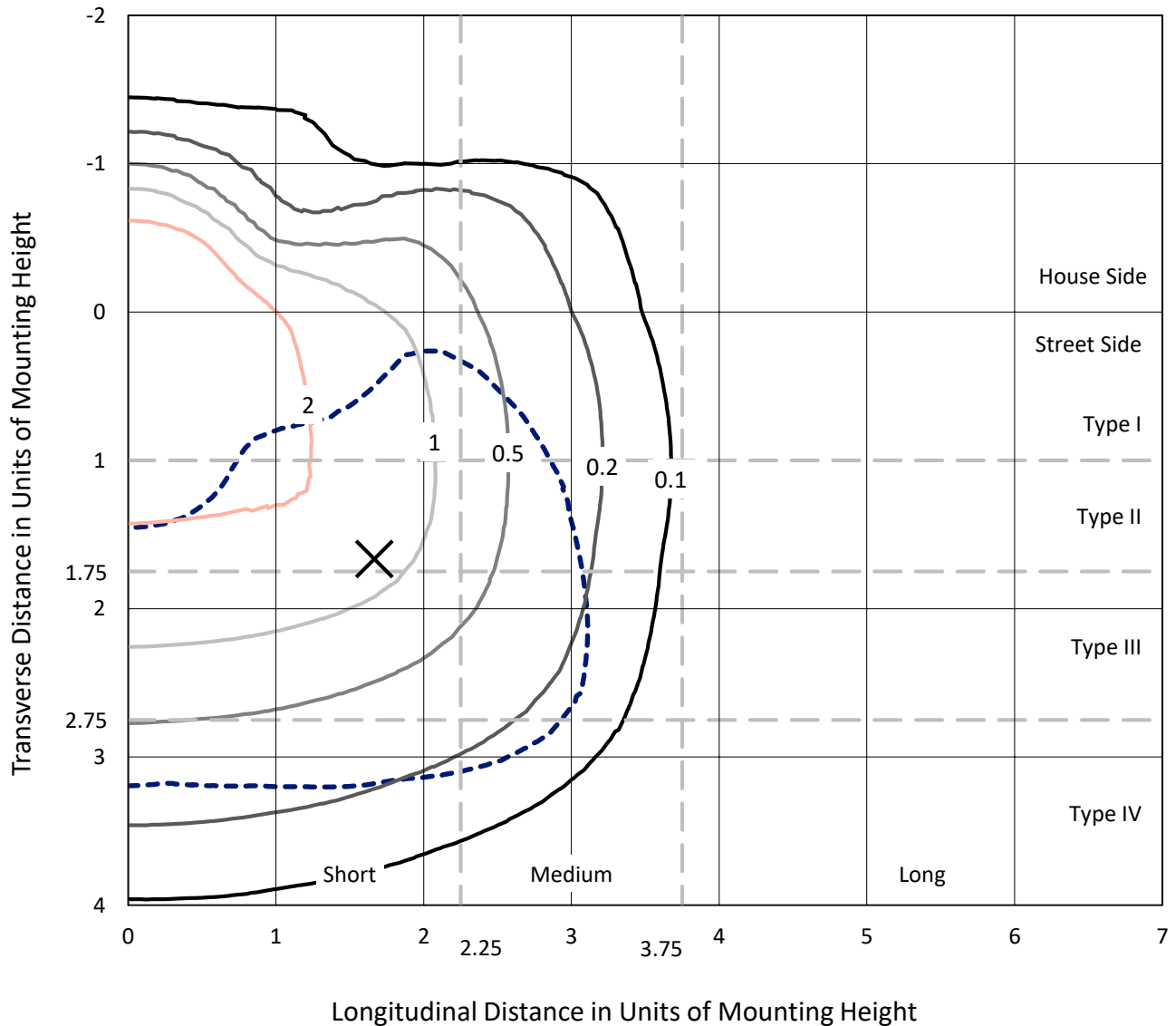
Input Watts (W): 133.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

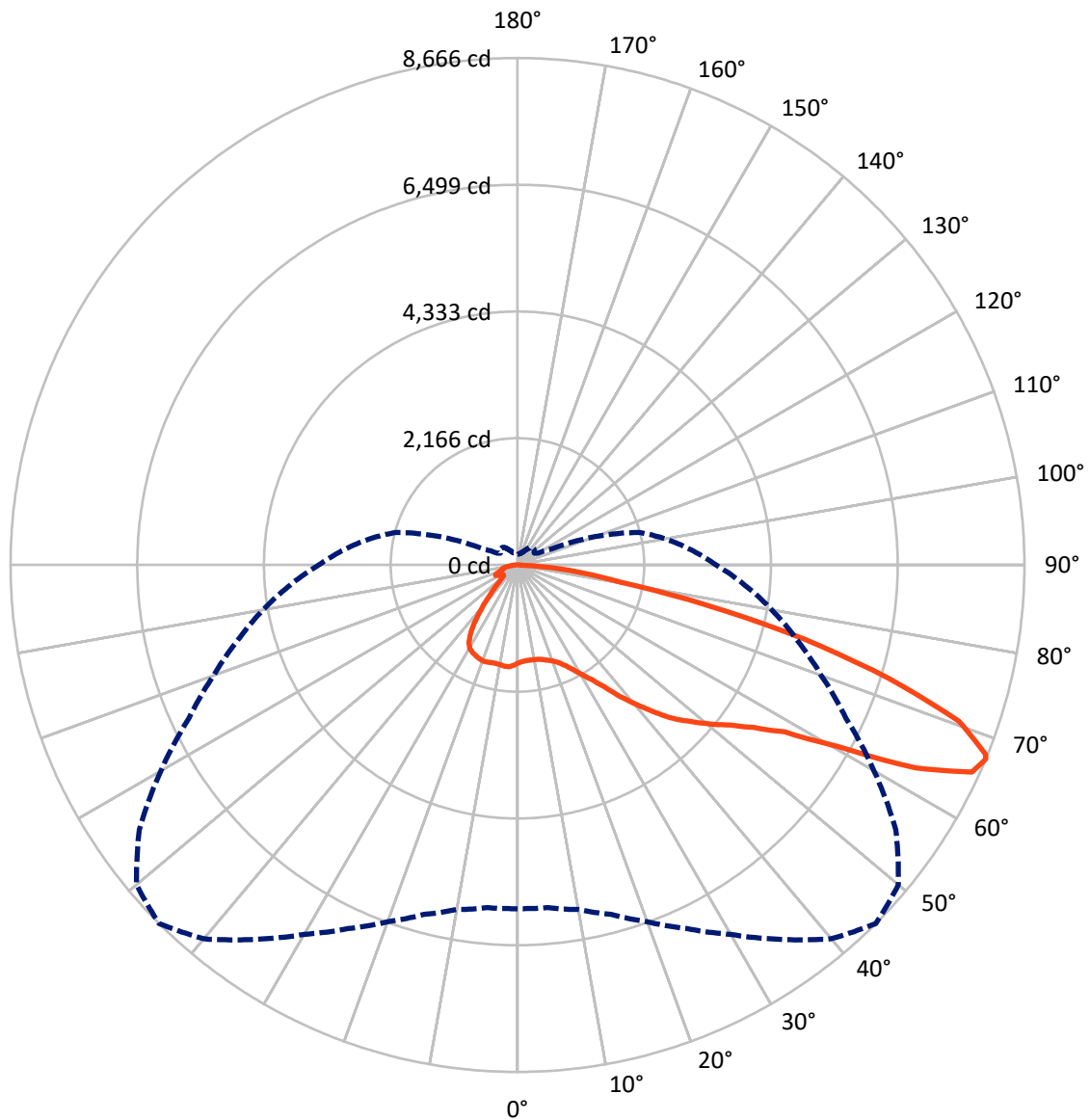


Based on 20 foot mounting height. Maximum calculated value = 4.3 fc  
 Type IV - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 67-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 2521.9   | 0.0    | 2521.9  |
|                    | % Fixture | 20.3     | 0.0    | 20.3    |
| <b>Street Side</b> | Lumens    | 9924.2   | 0.0    | 9924.2  |
|                    | % Fixture | 79.7     | 0.0    | 79.7    |
| <b>Total</b>       | Lumens    | 12446.1  | 0.0    | 12446.1 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 161.5   | 1.3       |
| 10°-20°   | 484.9   | 3.9       |
| 20°-30°   | 824.2   | 6.6       |
| 30°-40°   | 1238.6  | 10.0      |
| 40°-50°   | 1610.6  | 12.9      |
| 50°-60°   | 2211.2  | 17.8      |
| 60°-70°   | 3488.2  | 28.0      |
| 70°-80°   | 2107.7  | 16.9      |
| 80°-90°   | 319.3   | 2.6       |
| 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°    | 12446.1 | 100.0     |
| 0°-180°   | 12446.1 | 100.0     |

**Coefficient of Utilization**



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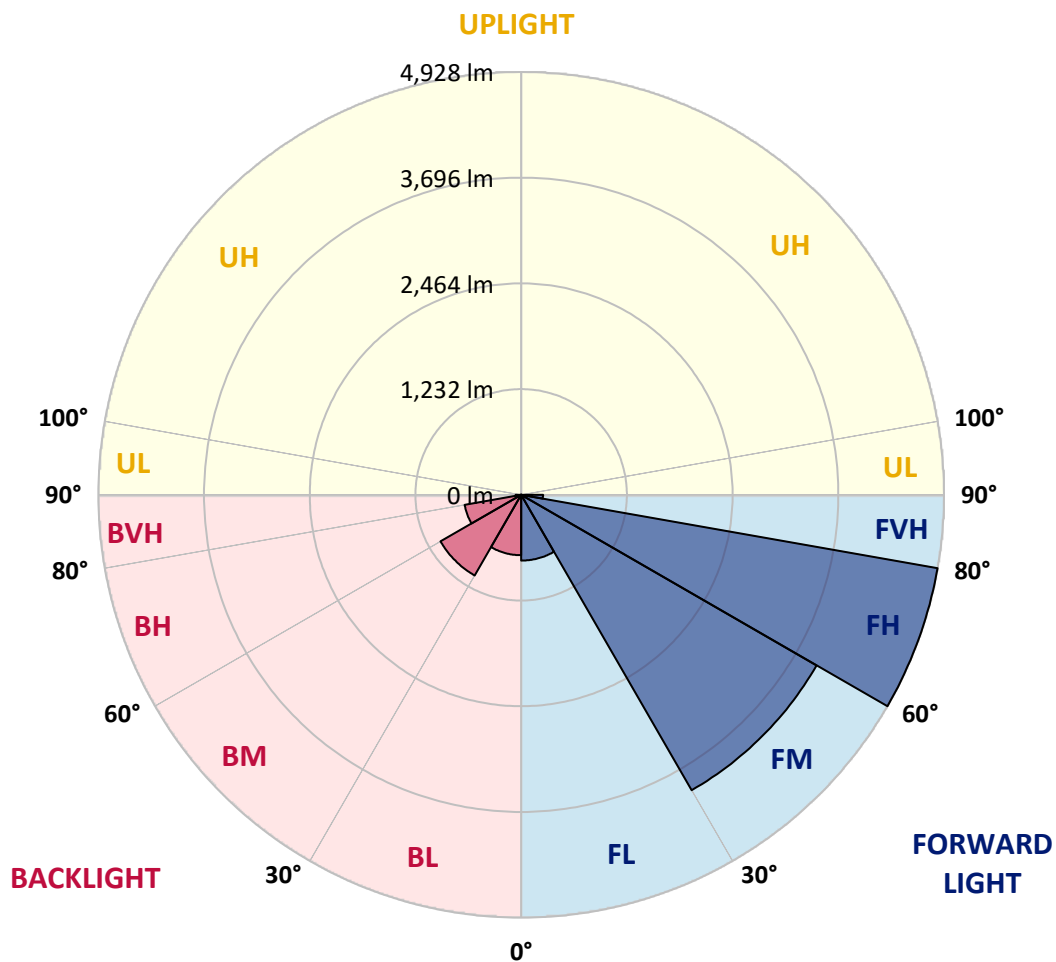
CATALOG NUMBER: OVF-F05-LED-E-U-T4-7050

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

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 766.4  | 6.2       |                         |      |         |
| FM (30°-60°)   | 3975.2 | 31.9      |                         |      |         |
| FH (60°-80°)   | 4927.7 | 39.6      |                         |      | G2/5000 |
| FVH (80°-90°)  | 255.0  | 2.0       |                         |      | G3/500  |
| BL (0°-30°)    | 704.1  | 5.7       | B2/1000                 |      |         |
| BM (30°-60°)   | 1085.2 | 8.7       | B2/2500                 |      |         |
| BH (60°-80°)   | 668.2  | 5.4       | B2/1000                 |      | G2/1000 |
| BVH (80°-90°)  | 64.3   | 0.5       |                         |      | G1/100  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B2-U0-G3**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1675.5 | 1675.5 | 1675.5 | 1675.5 | 1675.5 | 1675.5 | 1675.5 | 1675.5 | 1675.5 | 1675.5 | 1675.5 |
| 2.5°  | 1638.2 | 1641.6 | 1639.1 | 1639.1 | 1639.9 | 1640.8 | 1642.5 | 1645.9 | 1646.7 | 1651.8 | 1652.6 |
| 5°    | 1605.2 | 1606.1 | 1606.1 | 1606.9 | 1612.0 | 1616.2 | 1620.5 | 1626.4 | 1631.5 | 1640.8 | 1646.7 |
| 7.5°  | 1593.3 | 1596.7 | 1595.9 | 1597.6 | 1602.7 | 1606.9 | 1612.0 | 1620.5 | 1633.2 | 1640.8 | 1649.3 |
| 10°   | 1612.8 | 1615.4 | 1612.8 | 1613.7 | 1614.5 | 1618.8 | 1620.5 | 1626.4 | 1636.6 | 1643.3 | 1651.0 |
| 12.5° | 1657.7 | 1657.7 | 1655.2 | 1653.5 | 1651.0 | 1651.8 | 1648.4 | 1647.6 | 1652.6 | 1653.5 | 1654.3 |
| 15°   | 1717.0 | 1723.8 | 1715.3 | 1708.6 | 1705.2 | 1701.8 | 1690.8 | 1686.5 | 1685.7 | 1678.1 | 1670.4 |
| 17.5° | 1777.2 | 1778.9 | 1773.8 | 1766.2 | 1761.1 | 1753.4 | 1744.1 | 1735.7 | 1725.5 | 1713.6 | 1698.4 |
| 20°   | 1844.1 | 1844.9 | 1838.2 | 1827.1 | 1821.2 | 1811.9 | 1800.0 | 1785.6 | 1772.9 | 1754.3 | 1737.4 |
| 22.5° | 1937.3 | 1936.4 | 1922.9 | 1913.5 | 1905.1 | 1894.1 | 1877.1 | 1857.6 | 1837.3 | 1815.3 | 1791.6 |
| 25°   | 2044.0 | 2044.0 | 2034.7 | 2019.4 | 2015.2 | 1999.1 | 1980.5 | 1957.6 | 1936.4 | 1905.1 | 1876.3 |
| 27.5° | 2166.0 | 2166.8 | 2149.9 | 2141.4 | 2132.1 | 2115.1 | 2102.4 | 2084.7 | 2055.9 | 2024.5 | 1994.9 |
| 30°   | 2310.8 | 2306.6 | 2293.0 | 2275.2 | 2271.9 | 2258.3 | 2240.5 | 2227.8 | 2192.2 | 2170.2 | 2137.2 |
| 32.5° | 2448.0 | 2454.8 | 2451.4 | 2431.1 | 2434.5 | 2420.9 | 2405.7 | 2396.4 | 2359.1 | 2337.9 | 2307.4 |
| 35°   | 2653.0 | 2659.0 | 2664.1 | 2656.4 | 2660.7 | 2653.0 | 2640.3 | 2615.8 | 2585.3 | 2557.3 | 2515.0 |
| 37.5° | 2812.3 | 2818.2 | 2821.6 | 2840.2 | 2867.4 | 2893.6 | 2905.5 | 2892.8 | 2894.5 | 2852.1 | 2795.3 |
| 40°   | 2942.7 | 2957.1 | 2977.5 | 3013.0 | 3067.3 | 3117.2 | 3144.3 | 3165.5 | 3176.5 | 3136.7 | 3063.0 |
| 42.5° | 3073.2 | 3088.4 | 3116.4 | 3173.1 | 3247.7 | 3319.7 | 3376.4 | 3441.7 | 3453.5 | 3443.4 | 3380.7 |
| 45°   | 3209.6 | 3227.4 | 3262.1 | 3326.5 | 3413.7 | 3507.7 | 3599.2 | 3691.6 | 3738.1 | 3745.8 | 3669.5 |
| 47.5° | 3373.9 | 3399.3 | 3431.5 | 3504.4 | 3589.1 | 3694.9 | 3809.3 | 3927.9 | 4000.7 | 4000.7 | 3912.6 |
| 50°   | 3578.9 | 3607.7 | 3634.8 | 3707.6 | 3792.4 | 3901.6 | 4033.8 | 4165.9 | 4265.0 | 4271.0 | 4164.2 |
| 52.5° | 3866.1 | 3870.3 | 3886.4 | 3953.3 | 4027.0 | 4149.0 | 4274.3 | 4427.7 | 4542.0 | 4547.1 | 4424.3 |
| 55°   | 4215.0 | 4215.0 | 4233.7 | 4289.6 | 4358.2 | 4459.0 | 4588.6 | 4758.9 | 4879.2 | 4905.4 | 4747.9 |
| 57.5° | 4674.2 | 4691.1 | 4700.4 | 4765.6 | 4812.2 | 4919.0 | 5027.4 | 5212.9 | 5366.2 | 5383.2 | 5223.1 |
| 60°   | 5421.3 | 5389.1 | 5440.8 | 5498.4 | 5607.6 | 5685.6 | 5870.2 | 6056.6 | 6252.3 | 6298.9 | 6126.9 |
| 62.5° | 6157.4 | 6192.1 | 6255.7 | 6359.8 | 6547.0 | 6721.5 | 6985.8 | 7268.8 | 7572.9 | 7635.5 | 7504.2 |
| 65°   | 6203.1 | 6224.3 | 6312.4 | 6492.0 | 6747.8 | 7058.7 | 7422.9 | 7849.0 | 8302.2 | 8536.8 | 8316.6 |
| 67°   | 5874.5 | 5880.4 | 5980.4 | 6184.5 | 6491.1 | 6859.6 | 7290.8 | 7810.9 | 8342.8 | 8665.6 | 8501.3 |
| 67.5° | 5770.3 | 5781.3 | 5879.6 | 6087.9 | 6398.0 | 6774.9 | 7214.5 | 7749.0 | 8293.7 | 8630.9 | 8482.6 |
| 70°   | 5158.7 | 5158.7 | 5264.6 | 5474.6 | 5765.2 | 6132.8 | 6592.8 | 7132.4 | 7724.5 | 8008.3 | 7882.0 |
| 72.5° | 4391.2 | 4363.3 | 4482.7 | 4642.0 | 4879.2 | 5200.2 | 5570.4 | 5996.4 | 6442.0 | 6648.7 | 6598.7 |
| 75°   | 3191.8 | 3244.3 | 3306.1 | 3423.9 | 3629.7 | 3883.0 | 4099.8 | 4480.2 | 4830.0 | 5058.7 | 4998.6 |
| 77.5° | 1741.6 | 1761.9 | 1933.0 | 2003.3 | 2183.8 | 2371.8 | 2609.8 | 2876.7 | 3152.0 | 3296.0 | 3237.5 |
| 80°   | 1035.1 | 1074.9 | 1176.6 | 1260.4 | 1357.9 | 1501.0 | 1673.8 | 1732.3 | 1786.5 | 1783.1 | 1677.2 |
| 82.5° | 653.9  | 702.2  | 812.3  | 884.3  | 935.2  | 1018.2 | 1112.2 | 1185.9 | 1202.0 | 1122.4 | 999.5  |
| 85°   | 105.9  | 175.3  | 458.3  | 538.7  | 570.9  | 615.8  | 685.3  | 716.6  | 669.2  | 584.5  | 605.7  |
| 87.5° | 41.5   | 50.0   | 139.8  | 177.0  | 187.2  | 98.3   | 170.3  | 199.9  | 101.6  | 51.7   | 116.9  |
| 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):**

|       | 55°    | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    | 95°    | 100°   | 105°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1675.5 | 1675.5 | 1675.5 | 1675.5 | 1675.5 | 1675.5 | 1675.5 | 1675.5 | 1675.5 | 1675.5 | 1675.5 |
| 2.5°  | 1657.7 | 1662.0 | 1666.2 | 1671.3 | 1673.0 | 1677.2 | 1684.8 | 1684.0 | 1689.9 | 1692.5 | 1696.7 |
| 5°    | 1654.3 | 1663.7 | 1670.4 | 1679.8 | 1683.1 | 1692.5 | 1702.6 | 1706.0 | 1713.6 | 1719.6 | 1724.6 |
| 7.5°  | 1661.1 | 1671.3 | 1679.8 | 1690.8 | 1698.4 | 1706.0 | 1713.6 | 1723.0 | 1729.7 | 1734.0 | 1737.4 |
| 10°   | 1663.7 | 1674.7 | 1684.8 | 1694.2 | 1702.6 | 1708.6 | 1717.0 | 1724.6 | 1731.4 | 1734.0 | 1734.8 |
| 12.5° | 1664.5 | 1672.1 | 1682.3 | 1692.5 | 1700.1 | 1707.7 | 1713.6 | 1722.1 | 1727.2 | 1728.0 | 1726.3 |
| 15°   | 1671.3 | 1672.1 | 1678.9 | 1690.8 | 1698.4 | 1706.0 | 1710.2 | 1714.5 | 1717.9 | 1715.3 | 1712.8 |
| 17.5° | 1691.6 | 1685.7 | 1685.7 | 1691.6 | 1695.8 | 1699.2 | 1700.1 | 1699.2 | 1695.8 | 1690.8 | 1686.5 |
| 20°   | 1724.6 | 1712.8 | 1703.5 | 1700.1 | 1693.3 | 1684.8 | 1673.8 | 1663.7 | 1651.0 | 1645.0 | 1644.2 |
| 22.5° | 1776.3 | 1758.5 | 1741.6 | 1724.6 | 1702.6 | 1678.1 | 1652.6 | 1630.6 | 1612.8 | 1603.5 | 1604.4 |
| 25°   | 1864.4 | 1838.2 | 1818.7 | 1789.0 | 1753.4 | 1718.7 | 1685.7 | 1656.0 | 1634.9 | 1617.9 | 1621.3 |
| 27.5° | 1983.0 | 1953.4 | 1936.4 | 1902.5 | 1861.9 | 1817.8 | 1778.9 | 1738.2 | 1707.7 | 1686.5 | 1690.8 |
| 30°   | 2121.9 | 2113.5 | 2085.5 | 2051.6 | 2013.5 | 1963.5 | 1905.1 | 1844.1 | 1789.0 | 1754.3 | 1747.5 |
| 32.5° | 2289.6 | 2280.3 | 2249.8 | 2221.0 | 2171.9 | 2116.8 | 2040.6 | 1944.0 | 1857.6 | 1791.6 | 1762.8 |
| 35°   | 2496.3 | 2473.5 | 2436.2 | 2408.2 | 2353.2 | 2282.0 | 2183.8 | 2053.3 | 1922.0 | 1822.9 | 1750.9 |
| 37.5° | 2753.8 | 2697.1 | 2635.3 | 2562.4 | 2481.1 | 2394.7 | 2281.2 | 2128.7 | 1966.1 | 1825.4 | 1697.5 |
| 40°   | 2999.5 | 2908.0 | 2805.5 | 2690.3 | 2591.2 | 2487.0 | 2369.3 | 2194.8 | 1995.7 | 1807.7 | 1617.1 |
| 42.5° | 3273.1 | 3130.8 | 2991.9 | 2833.5 | 2703.0 | 2579.3 | 2444.7 | 2241.4 | 2001.6 | 1759.4 | 1512.9 |
| 45°   | 3536.5 | 3353.6 | 3167.2 | 2971.5 | 2805.5 | 2668.3 | 2515.0 | 2281.2 | 1999.9 | 1708.6 | 1409.5 |
| 47.5° | 3771.2 | 3552.6 | 3322.2 | 3102.0 | 2908.9 | 2758.1 | 2590.4 | 2335.4 | 2022.8 | 1694.2 | 1340.9 |
| 50°   | 3990.6 | 3738.1 | 3467.9 | 3223.1 | 3013.0 | 2858.9 | 2686.1 | 2420.9 | 2093.1 | 1727.2 | 1330.8 |
| 52.5° | 4216.7 | 3942.3 | 3633.1 | 3369.7 | 3150.3 | 2971.5 | 2797.0 | 2530.2 | 2191.4 | 1795.0 | 1353.6 |
| 55°   | 4511.5 | 4196.4 | 3866.9 | 3574.7 | 3323.1 | 3130.8 | 2929.2 | 2662.4 | 2297.3 | 1873.7 | 1396.8 |
| 57.5° | 4950.3 | 4581.8 | 4207.4 | 3893.2 | 3602.6 | 3362.9 | 3141.8 | 2836.0 | 2472.6 | 1992.3 | 1491.7 |
| 60°   | 5738.1 | 5329.8 | 4896.1 | 4485.3 | 4150.7 | 3870.3 | 3589.1 | 3209.6 | 2796.2 | 2261.7 | 1709.4 |
| 62.5° | 7024.8 | 6459.8 | 5860.1 | 5319.6 | 4859.7 | 4480.2 | 4083.8 | 3628.0 | 3146.0 | 2588.7 | 2038.9 |
| 65°   | 7798.2 | 7018.9 | 6255.7 | 5628.8 | 5085.0 | 4598.8 | 4119.3 | 3629.7 | 3163.0 | 2675.9 | 2187.1 |
| 67°   | 7893.9 | 7039.2 | 6194.7 | 5527.2 | 4944.4 | 4415.0 | 3894.9 | 3394.2 | 2976.6 | 2568.3 | 2146.5 |
| 67.5° | 7865.1 | 6998.5 | 6137.1 | 5462.8 | 4874.1 | 4361.6 | 3850.0 | 3337.5 | 2930.9 | 2522.6 | 2116.0 |
| 70°   | 7297.6 | 6449.6 | 5597.5 | 4941.8 | 4377.7 | 3853.3 | 3369.7 | 2856.3 | 2542.1 | 2249.8 | 1898.3 |
| 72.5° | 6056.6 | 5395.0 | 4680.9 | 4134.6 | 3647.5 | 3193.5 | 2768.2 | 2338.8 | 2086.3 | 1879.7 | 1632.3 |
| 75°   | 4491.2 | 3884.7 | 3280.7 | 2952.1 | 2574.3 | 2210.9 | 1882.2 | 1564.5 | 1467.1 | 1418.0 | 1272.3 |
| 77.5° | 2773.3 | 2228.7 | 1773.8 | 1476.5 | 1174.0 | 919.9  | 731.9  | 595.5  | 620.9  | 722.6  | 769.1  |
| 80°   | 1380.7 | 1019.9 | 789.5  | 627.7  | 507.4  | 410.0  | 300.7  | 220.2  | 263.4  | 312.6  | 354.1  |
| 82.5° | 831.0  | 656.5  | 519.3  | 439.6  | 357.5  | 276.1  | 195.7  | 149.1  | 165.2  | 221.9  | 244.0  |
| 85°   | 515.9  | 413.4  | 330.4  | 276.1  | 228.7  | 169.4  | 111.0  | 110.1  | 116.9  | 147.4  | 168.6  |
| 87.5° | 151.6  | 102.5  | 81.3   | 84.7   | 94.0   | 77.9   | 58.4   | 50.0   | 61.8   | 84.7   | 94.9   |
| 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):**

|       | 110°   | 115°   | 120°   | 125°   | 130°   | 135°   | 140°   | 145°   | 150°   | 155°   | 160°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1675.5 | 1675.5 | 1675.5 | 1675.5 | 1675.5 | 1675.5 | 1675.5 | 1675.5 | 1675.5 | 1675.5 | 1675.5 |
| 2.5°  | 1697.5 | 1703.5 | 1706.0 | 1706.9 | 1707.7 | 1712.8 | 1712.8 | 1717.9 | 1719.6 | 1719.6 | 1721.3 |
| 5°    | 1729.7 | 1735.7 | 1738.2 | 1739.0 | 1740.7 | 1743.3 | 1742.4 | 1745.8 | 1747.5 | 1746.7 | 1746.7 |
| 7.5°  | 1741.6 | 1743.3 | 1743.3 | 1745.8 | 1748.4 | 1745.8 | 1744.1 | 1745.8 | 1745.0 | 1745.8 | 1745.8 |
| 10°   | 1737.4 | 1735.7 | 1735.7 | 1734.0 | 1736.5 | 1731.4 | 1731.4 | 1733.1 | 1732.3 | 1734.0 | 1736.5 |
| 12.5° | 1727.2 | 1726.3 | 1723.8 | 1723.0 | 1726.3 | 1723.0 | 1723.8 | 1726.3 | 1728.0 | 1731.4 | 1735.7 |
| 15°   | 1712.8 | 1710.2 | 1710.2 | 1713.6 | 1722.1 | 1724.6 | 1728.0 | 1732.3 | 1733.1 | 1734.8 | 1736.5 |
| 17.5° | 1688.2 | 1692.5 | 1702.6 | 1714.5 | 1730.6 | 1736.5 | 1738.2 | 1735.7 | 1727.2 | 1720.4 | 1713.6 |
| 20°   | 1654.3 | 1673.0 | 1699.2 | 1724.6 | 1744.1 | 1743.3 | 1732.3 | 1716.2 | 1695.8 | 1681.4 | 1672.1 |
| 22.5° | 1625.5 | 1662.0 | 1702.6 | 1733.1 | 1745.8 | 1729.7 | 1704.3 | 1679.8 | 1656.0 | 1634.9 | 1616.2 |
| 25°   | 1645.9 | 1680.6 | 1715.3 | 1734.0 | 1733.1 | 1705.2 | 1671.3 | 1644.2 | 1612.0 | 1582.3 | 1551.0 |
| 27.5° | 1711.9 | 1733.1 | 1743.3 | 1737.4 | 1719.6 | 1682.3 | 1645.0 | 1606.9 | 1565.4 | 1529.8 | 1493.4 |
| 30°   | 1756.8 | 1756.8 | 1746.7 | 1723.0 | 1691.6 | 1650.1 | 1604.4 | 1555.2 | 1506.1 | 1464.6 | 1423.1 |
| 32.5° | 1742.4 | 1709.4 | 1679.8 | 1647.6 | 1612.0 | 1567.1 | 1514.6 | 1461.2 | 1405.3 | 1357.0 | 1321.4 |
| 35°   | 1679.8 | 1608.6 | 1546.8 | 1501.0 | 1463.7 | 1410.4 | 1349.4 | 1288.4 | 1242.7 | 1209.6 | 1189.3 |
| 37.5° | 1567.9 | 1454.4 | 1364.6 | 1308.7 | 1251.1 | 1196.1 | 1125.8 | 1097.8 | 1057.2 | 1036.8 | 1029.2 |
| 40°   | 1432.4 | 1266.4 | 1153.7 | 1081.7 | 1020.7 | 952.1  | 904.7  | 886.9  | 871.6  | 867.4  | 864.0  |
| 42.5° | 1276.5 | 1069.0 | 935.2  | 860.6  | 786.9  | 737.0  | 715.8  | 704.8  | 702.2  | 702.2  | 706.5  |
| 45°   | 1114.8 | 868.3  | 714.1  | 653.9  | 593.0  | 566.7  | 561.6  | 556.5  | 557.4  | 554.8  | 556.5  |
| 47.5° | 989.4  | 697.1  | 538.7  | 483.7  | 452.3  | 443.9  | 437.9  | 436.2  | 436.2  | 432.0  | 426.9  |
| 50°   | 924.2  | 582.8  | 422.7  | 379.5  | 361.7  | 355.8  | 355.8  | 352.4  | 345.6  | 341.4  | 330.4  |
| 52.5° | 907.2  | 523.5  | 365.9  | 328.7  | 313.4  | 308.3  | 303.3  | 298.2  | 288.0  | 278.7  | 266.0  |
| 55°   | 920.8  | 504.9  | 348.1  | 313.4  | 296.5  | 290.5  | 286.3  | 277.8  | 263.4  | 249.9  | 235.5  |
| 57.5° | 977.5  | 516.7  | 354.9  | 317.7  | 302.4  | 298.2  | 293.9  | 281.2  | 263.4  | 244.0  | 227.9  |
| 60°   | 1132.5 | 572.6  | 383.7  | 340.5  | 327.8  | 328.7  | 322.7  | 306.6  | 281.2  | 253.3  | 229.6  |
| 62.5° | 1332.4 | 650.6  | 421.0  | 372.7  | 371.0  | 379.5  | 379.5  | 351.5  | 310.0  | 267.7  | 235.5  |
| 65°   | 1446.8 | 675.1  | 426.1  | 376.9  | 391.3  | 415.9  | 414.2  | 376.9  | 320.2  | 267.7  | 232.9  |
| 67°   | 1418.0 | 648.9  | 404.9  | 352.4  | 369.3  | 397.3  | 393.9  | 358.3  | 304.9  | 256.7  | 226.2  |
| 67.5° | 1395.1 | 640.4  | 399.8  | 346.5  | 363.4  | 386.3  | 386.3  | 350.7  | 298.2  | 253.3  | 223.6  |
| 70°   | 1228.3 | 565.8  | 374.4  | 323.6  | 323.6  | 329.5  | 325.3  | 299.9  | 264.3  | 232.9  | 213.5  |
| 72.5° | 1024.1 | 494.7  | 354.1  | 307.5  | 291.4  | 288.0  | 282.1  | 264.3  | 241.4  | 219.4  | 202.5  |
| 75°   | 793.7  | 437.9  | 338.0  | 290.5  | 269.4  | 261.7  | 255.8  | 242.3  | 224.5  | 205.8  | 191.4  |
| 77.5° | 555.7  | 375.3  | 316.8  | 276.1  | 253.3  | 247.3  | 238.0  | 222.8  | 208.4  | 192.3  | 178.7  |
| 80°   | 344.8  | 310.0  | 276.1  | 249.0  | 225.3  | 216.9  | 205.0  | 191.4  | 179.6  | 170.3  | 160.1  |
| 82.5° | 245.7  | 227.9  | 205.8  | 191.4  | 166.9  | 141.5  | 151.6  | 152.5  | 144.8  | 138.9  | 136.4  |
| 85°   | 164.3  | 148.2  | 137.2  | 124.5  | 110.1  | 99.1   | 101.6  | 109.3  | 110.1  | 107.6  | 107.6  |
| 87.5° | 89.8   | 76.2   | 73.7   | 76.2   | 66.1   | 62.7   | 63.5   | 70.3   | 71.2   | 71.2   | 72.0   |
| 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):**

|       | 165°   | 170°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|
| 0°    | 1675.5 | 1675.5 | 1675.5 | 1675.5 |
| 2.5°  | 1722.1 | 1724.6 | 1723.8 | 1725.5 |
| 5°    | 1748.4 | 1750.1 | 1749.2 | 1750.1 |
| 7.5°  | 1744.1 | 1747.5 | 1749.2 | 1746.7 |
| 10°   | 1737.4 | 1742.4 | 1745.8 | 1745.8 |
| 12.5° | 1739.0 | 1747.5 | 1752.6 | 1752.6 |
| 15°   | 1737.4 | 1744.1 | 1745.8 | 1745.8 |
| 17.5° | 1711.1 | 1711.1 | 1711.9 | 1708.6 |
| 20°   | 1665.4 | 1660.3 | 1658.6 | 1652.6 |
| 22.5° | 1600.1 | 1588.3 | 1580.6 | 1576.4 |
| 25°   | 1525.6 | 1506.9 | 1495.1 | 1488.3 |
| 27.5° | 1463.7 | 1447.7 | 1435.8 | 1429.0 |
| 30°   | 1395.1 | 1376.5 | 1369.7 | 1364.6 |
| 32.5° | 1296.0 | 1278.2 | 1273.2 | 1268.9 |
| 35°   | 1167.3 | 1161.3 | 1147.8 | 1138.5 |
| 37.5° | 1018.2 | 1010.6 | 1005.5 | 1002.1 |
| 40°   | 862.3  | 863.2  | 858.9  | 851.3  |
| 42.5° | 706.5  | 714.9  | 706.5  | 704.8  |
| 45°   | 554.8  | 564.2  | 564.2  | 566.7  |
| 47.5° | 427.8  | 426.1  | 429.5  | 430.3  |
| 50°   | 323.6  | 318.5  | 316.8  | 314.3  |
| 52.5° | 256.7  | 250.7  | 247.3  | 243.1  |
| 55°   | 226.2  | 219.4  | 216.0  | 215.2  |
| 57.5° | 216.0  | 207.5  | 202.5  | 201.6  |
| 60°   | 213.5  | 201.6  | 194.8  | 193.1  |
| 62.5° | 213.5  | 199.1  | 191.4  | 188.9  |
| 65°   | 210.9  | 196.5  | 189.7  | 187.2  |
| 67°   | 207.5  | 194.8  | 188.1  | 186.4  |
| 67.5° | 205.8  | 194.0  | 188.1  | 185.5  |
| 70°   | 201.6  | 191.4  | 184.7  | 182.1  |
| 72.5° | 192.3  | 183.8  | 177.0  | 175.3  |
| 75°   | 182.1  | 174.5  | 170.3  | 168.6  |
| 77.5° | 170.3  | 163.5  | 158.4  | 154.2  |
| 80°   | 152.5  | 144.8  | 137.2  | 135.5  |
| 82.5° | 129.6  | 121.1  | 115.2  | 114.4  |
| 85°   | 104.2  | 97.4   | 90.6   | 90.6   |
| 87.5° | 72.8   | 68.6   | 64.4   | 60.1   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)