

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: P140841

Luminaire Tested: **CEM-E03-LED-E-U-RW-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P140841
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33689)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: CEM-E03-LED-E-U-RW-7050
Description: EPIC CLASSICAL MEDIUM DECORATIVE LED LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - RECTANGULAR WIDE
Light Source: (63) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9103.6 lumens
Efficiency: N/A
Efficacy: 121.1 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

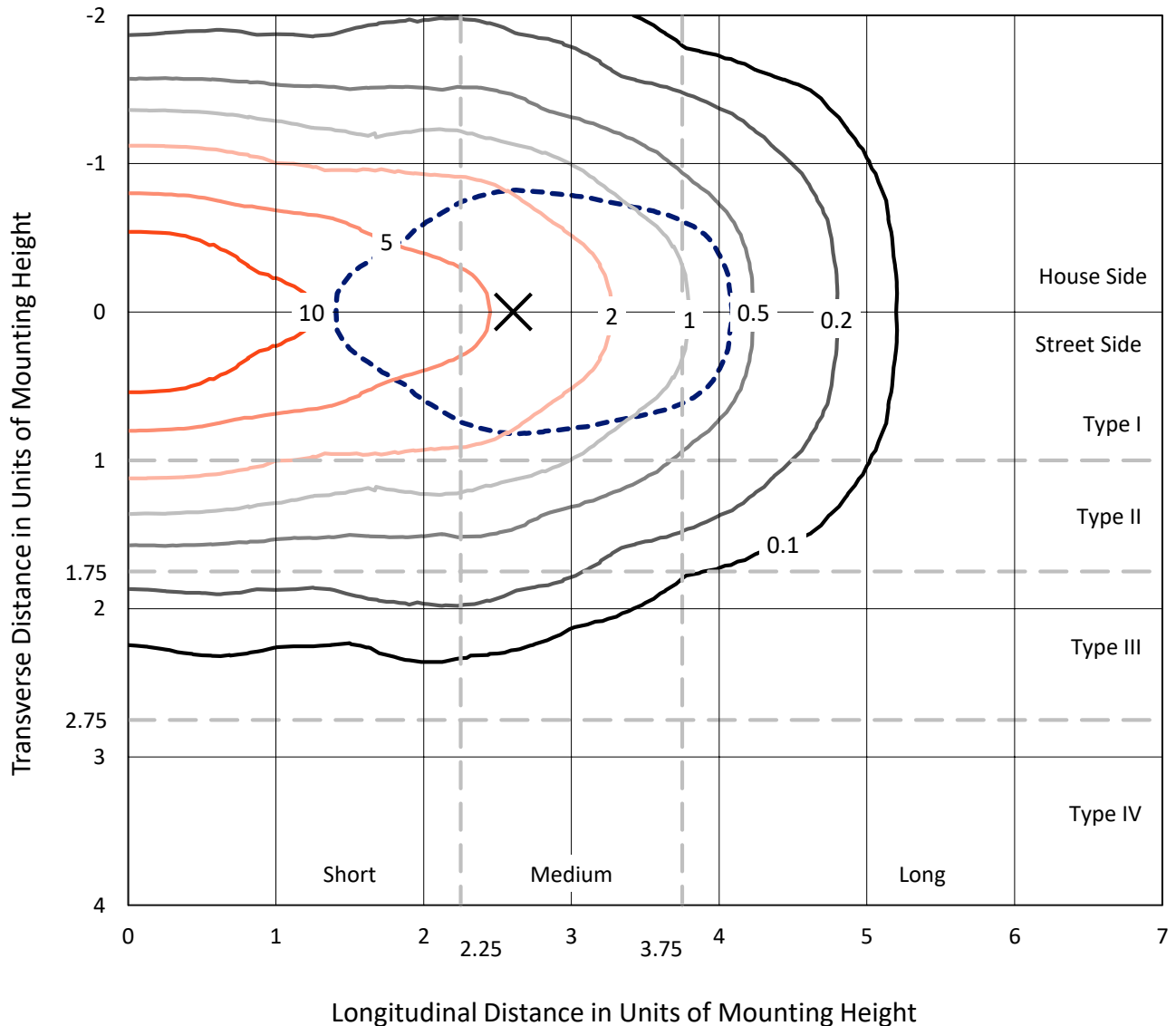


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

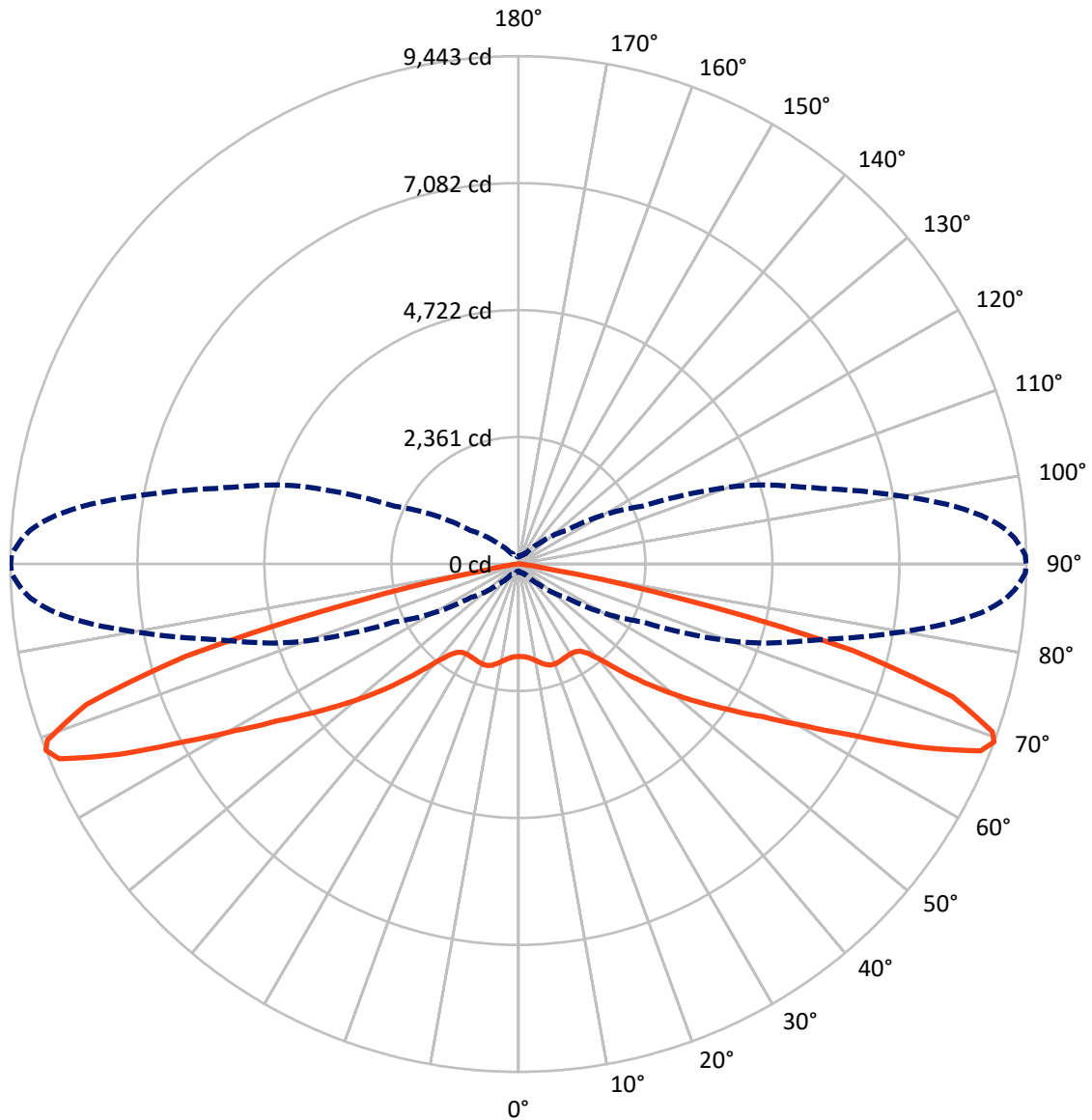


Based on 10 foot mounting height. Maximum calculated value = 17.6 fc
 Type V - Medium - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 90-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 4551.8 | 0.0 | 4551.8 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 4551.8 | 0.0 | 4551.8 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 9103.6 | 0.0 | 9103.6 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 168.3 | 1.8 |
| 10°-20° | 529.0 | 5.8 |
| 20°-30° | 855.5 | 9.4 |
| 30°-40° | 1068.6 | 11.7 |
| 40°-50° | 1336.6 | 14.7 |
| 50°-60° | 1647.0 | 18.1 |
| 60°-70° | 2039.1 | 22.4 |
| 70°-80° | 1332.7 | 14.6 |
| 80°-90° | 126.6 | 1.4 |
| 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° | 9103.6 | 100.0 |
| 0°-180° | 9103.6 | 100.0 |



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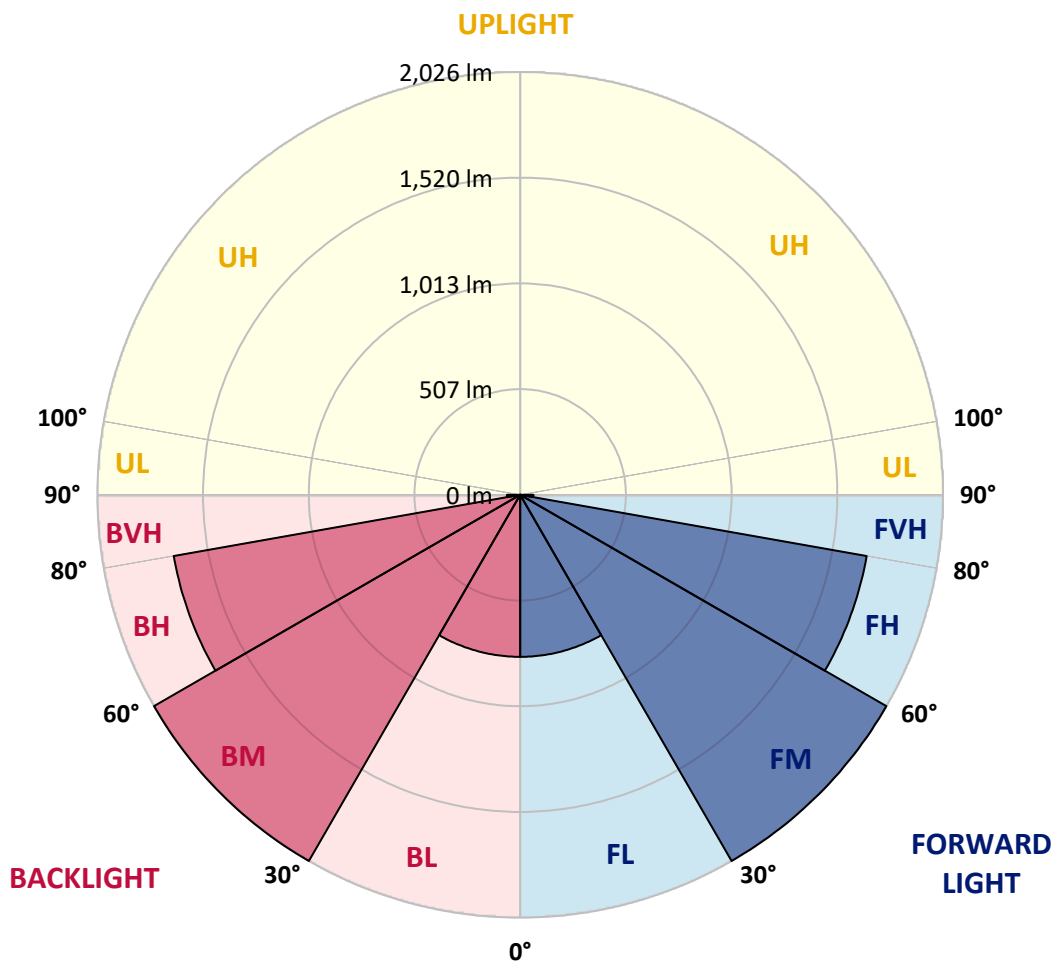
CATALOG NUMBER: CEM-E03-LED-E-U-RW-7050

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 776.4 | 8.5 | | | |
| FM (30°-60°) | 2026.1 | 22.3 | | | |
| FH (60°-80°) | 1685.9 | 18.5 | | | G1/1800 |
| FVH (80°-90°) | 63.3 | 0.7 | | | G1/100 |
| BL (0°-30°) | 776.4 | 8.5 | B2/1000 | | |
| BM (30°-60°) | 2026.1 | 22.3 | B2/2500 | | |
| BH (60°-80°) | 1685.9 | 18.5 | B3/2500 | | G1/1800 |
| BVH (80°-90°) | 63.3 | 0.7 | | | 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° | 1718.7 | 1718.7 | 1718.7 | 1718.7 | 1718.7 | 1718.7 | 1718.7 | 1718.7 | 1718.7 | 1718.7 | 1718.7 |
| 2.5° | 1730.0 | 1731.0 | 1728.0 | 1729.0 | 1730.0 | 1729.0 | 1727.4 | 1727.4 | 1726.9 | 1726.4 | 1725.9 |
| 5° | 1741.3 | 1741.8 | 1740.3 | 1742.8 | 1743.4 | 1744.8 | 1744.9 | 1745.4 | 1745.1 | 1744.8 | 1744.5 |
| 7.5° | 1757.2 | 1759.2 | 1757.8 | 1761.3 | 1764.9 | 1770.0 | 1772.6 | 1778.8 | 1778.6 | 1778.6 | 1778.4 |
| 10° | 1772.1 | 1774.2 | 1774.2 | 1782.4 | 1791.0 | 1800.8 | 1811.0 | 1820.8 | 1821.5 | 1822.1 | 1822.7 |
| 12.5° | 1783.4 | 1784.9 | 1787.4 | 1802.4 | 1821.8 | 1838.2 | 1856.2 | 1871.6 | 1872.2 | 1872.8 | 1873.5 |
| 15° | 1778.8 | 1782.4 | 1794.2 | 1817.8 | 1852.2 | 1879.3 | 1901.4 | 1919.8 | 1921.1 | 1922.3 | 1923.5 |
| 17.5° | 1762.8 | 1768.5 | 1785.4 | 1825.4 | 1878.3 | 1921.9 | 1948.0 | 1953.2 | 1954.0 | 1954.8 | 1955.7 |
| 20° | 1728.4 | 1736.7 | 1763.4 | 1820.4 | 1898.3 | 1957.2 | 1983.5 | 1974.2 | 1973.4 | 1972.6 | 1971.7 |
| 22.5° | 1671.0 | 1681.8 | 1715.2 | 1796.2 | 1899.8 | 1983.0 | 2008.6 | 1983.0 | 1980.1 | 1977.2 | 1974.3 |
| 25° | 1594.1 | 1602.8 | 1640.8 | 1736.7 | 1876.2 | 1987.6 | 2024.5 | 1988.6 | 1983.9 | 1979.3 | 1974.7 |
| 27.5° | 1500.7 | 1507.9 | 1555.0 | 1657.2 | 1817.8 | 1964.0 | 2034.8 | 1998.3 | 1992.4 | 1986.4 | 1980.5 |
| 30° | 1395.5 | 1401.6 | 1453.4 | 1562.2 | 1735.6 | 1912.2 | 2033.8 | 2020.4 | 2013.3 | 2006.2 | 1999.2 |
| 32.5° | 1290.8 | 1293.4 | 1339.6 | 1459.2 | 1644.4 | 1835.7 | 2016.8 | 2054.3 | 2047.4 | 2040.5 | 2033.7 |
| 35° | 1175.9 | 1184.2 | 1233.4 | 1363.7 | 1541.2 | 1751.6 | 1994.2 | 2101.5 | 2097.6 | 2093.7 | 2089.8 |
| 37.5° | 1083.6 | 1086.2 | 1138.9 | 1274.4 | 1457.6 | 1675.2 | 1965.5 | 2162.0 | 2164.8 | 2167.5 | 2170.3 |
| 40° | 991.2 | 991.2 | 1043.6 | 1184.1 | 1373.9 | 1606.4 | 1941.4 | 2236.4 | 2250.5 | 2264.5 | 2278.6 |
| 42.5° | 890.2 | 897.3 | 948.6 | 1088.7 | 1292.9 | 1547.8 | 1929.1 | 2325.7 | 2352.2 | 2378.6 | 2405.1 |
| 45° | 795.8 | 800.4 | 852.7 | 989.7 | 1191.8 | 1481.2 | 1925.5 | 2425.2 | 2465.4 | 2505.6 | 2545.9 |
| 47.5° | 702.9 | 709.6 | 759.4 | 885.0 | 1081.5 | 1392.4 | 1920.8 | 2538.6 | 2590.0 | 2641.4 | 2692.8 |
| 50° | 616.7 | 620.8 | 676.2 | 790.6 | 972.8 | 1277.5 | 1890.6 | 2665.3 | 2728.1 | 2790.9 | 2853.7 |
| 52.5° | 525.4 | 533.6 | 579.2 | 697.2 | 863.0 | 1153.8 | 1811.1 | 2803.4 | 2879.3 | 2955.2 | 3031.1 |
| 55° | 430.0 | 427.9 | 482.8 | 593.6 | 767.0 | 1035.4 | 1664.4 | 2922.9 | 3014.5 | 3106.1 | 3197.8 |
| 57.5° | 315.0 | 321.6 | 372.0 | 484.3 | 655.7 | 935.8 | 1491.4 | 2984.9 | 3099.2 | 3213.5 | 3327.9 |
| 60° | 225.7 | 235.0 | 278.6 | 367.4 | 544.8 | 838.3 | 1315.0 | 2941.8 | 3093.3 | 3244.8 | 3396.2 |
| 62.5° | 176.5 | 180.6 | 218.0 | 275.5 | 424.8 | 736.2 | 1196.4 | 2830.0 | 3038.8 | 3247.6 | 3456.4 |
| 65° | 153.9 | 158.5 | 191.9 | 221.6 | 322.7 | 639.3 | 1125.1 | 2740.7 | 3016.3 | 3291.9 | 3567.6 |
| 67.5° | 140.0 | 145.8 | 174.4 | 195.0 | 264.8 | 556.7 | 1108.2 | 2667.8 | 2991.2 | 3314.5 | 3637.8 |
| 69° | 133.4 | 139.0 | 165.8 | 184.7 | 245.8 | 530.5 | 1088.7 | 2545.2 | 2873.4 | 3201.6 | 3529.7 |
| 70° | 130.3 | 135.0 | 160.6 | 178.6 | 239.6 | 515.1 | 1044.6 | 2405.1 | 2722.3 | 3039.5 | 3356.7 |
| 72.5° | 120.0 | 122.6 | 146.2 | 163.7 | 226.8 | 431.0 | 827.6 | 1800.3 | 2065.3 | 2330.4 | 2595.4 |
| 75° | 106.2 | 110.3 | 131.9 | 149.9 | 182.2 | 276.0 | 542.8 | 1088.2 | 1284.5 | 1480.8 | 1677.1 |
| 77.5° | 91.3 | 95.0 | 113.4 | 143.1 | 140.0 | 167.2 | 312.0 | 608.0 | 714.1 | 820.2 | 926.3 |
| 80° | 79.0 | 82.6 | 99.6 | 132.9 | 113.8 | 123.6 | 210.4 | 396.6 | 436.9 | 477.2 | 517.6 |
| 82.5° | 62.1 | 64.6 | 83.6 | 108.2 | 88.2 | 91.8 | 157.6 | 346.3 | 370.6 | 394.9 | 419.3 |
| 85° | 39.5 | 41.0 | 61.0 | 73.8 | 61.6 | 54.4 | 99.0 | 254.0 | 273.2 | 292.4 | 311.5 |
| 87.5° | 13.8 | 19.5 | 27.2 | 25.6 | 25.6 | 19.5 | 34.9 | 93.9 | 101.4 | 108.9 | 116.4 |
| 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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CANDELA DISTRIBUTION (continued):

| | 69° | 70° | 71° | 72° | 73° | 74° | 75° | 76° | 77° | 78° | 79° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1718.7 | 1718.7 | 1718.7 | 1718.7 | 1718.7 | 1718.7 | 1718.7 | 1718.7 | 1718.7 | 1718.7 | 1718.7 |
| 2.5° | 1725.4 | 1724.9 | 1725.4 | 1725.4 | 1724.9 | 1724.4 | 1724.4 | 1723.8 | 1722.8 | 1722.8 | 1722.3 |
| 5° | 1744.2 | 1743.9 | 1744.9 | 1744.4 | 1744.8 | 1744.4 | 1744.4 | 1743.8 | 1744.4 | 1742.4 | 1741.8 |
| 7.5° | 1778.4 | 1778.2 | 1778.2 | 1779.8 | 1778.8 | 1778.2 | 1779.2 | 1779.3 | 1779.2 | 1778.2 | 1778.2 |
| 10° | 1823.3 | 1823.9 | 1824.9 | 1826.0 | 1826.0 | 1826.0 | 1828.0 | 1826.4 | 1829.6 | 1826.4 | 1828.0 |
| 12.5° | 1874.1 | 1874.7 | 1877.2 | 1878.3 | 1879.4 | 1879.3 | 1879.4 | 1882.4 | 1884.4 | 1883.9 | 1884.4 |
| 15° | 1924.8 | 1926.0 | 1926.5 | 1928.0 | 1928.0 | 1928.6 | 1930.6 | 1934.2 | 1933.2 | 1935.2 | 1935.2 |
| 17.5° | 1956.5 | 1957.3 | 1956.8 | 1956.8 | 1957.8 | 1959.4 | 1961.4 | 1963.4 | 1963.0 | 1964.4 | 1965.5 |
| 20° | 1970.9 | 1970.1 | 1968.6 | 1967.6 | 1967.0 | 1968.1 | 1968.0 | 1968.6 | 1969.6 | 1969.6 | 1969.6 |
| 22.5° | 1971.5 | 1968.6 | 1965.0 | 1963.0 | 1960.4 | 1958.8 | 1959.8 | 1958.8 | 1958.8 | 1958.8 | 1957.8 |
| 25° | 1970.1 | 1965.5 | 1959.8 | 1955.8 | 1951.6 | 1949.0 | 1946.6 | 1945.5 | 1943.4 | 1943.4 | 1943.4 |
| 27.5° | 1974.5 | 1968.6 | 1963.0 | 1955.2 | 1949.6 | 1946.5 | 1943.0 | 1939.4 | 1937.2 | 1935.2 | 1935.2 |
| 30° | 1992.1 | 1985.0 | 1977.8 | 1968.6 | 1960.9 | 1958.3 | 1951.6 | 1948.0 | 1943.0 | 1940.4 | 1939.4 |
| 32.5° | 2026.8 | 2019.9 | 2010.2 | 1999.8 | 1993.7 | 1986.0 | 1980.4 | 1972.7 | 1967.0 | 1963.5 | 1958.8 |
| 35° | 2085.9 | 2082.0 | 2073.8 | 2067.1 | 2057.9 | 2049.1 | 2037.8 | 2033.8 | 2021.9 | 2019.8 | 2014.2 |
| 37.5° | 2173.1 | 2175.8 | 2174.3 | 2169.2 | 2163.0 | 2155.3 | 2150.8 | 2142.0 | 2137.4 | 2132.8 | 2127.6 |
| 40° | 2292.6 | 2306.7 | 2311.3 | 2317.0 | 2318.5 | 2325.2 | 2317.4 | 2316.4 | 2310.3 | 2315.4 | 2312.4 |
| 42.5° | 2431.6 | 2458.0 | 2472.4 | 2489.3 | 2507.8 | 2524.8 | 2538.0 | 2560.6 | 2558.1 | 2575.6 | 2587.8 |
| 45° | 2586.1 | 2626.3 | 2663.2 | 2691.4 | 2726.9 | 2765.9 | 2800.2 | 2832.0 | 2868.0 | 2888.5 | 2918.8 |
| 47.5° | 2744.2 | 2795.6 | 2848.5 | 2900.8 | 2951.1 | 3001.4 | 3062.9 | 3118.8 | 3173.2 | 3210.1 | 3256.8 |
| 50° | 2916.5 | 2979.3 | 3043.0 | 3107.0 | 3178.4 | 3257.4 | 3326.2 | 3399.0 | 3473.9 | 3549.8 | 3603.2 |
| 52.5° | 3107.1 | 3183.0 | 3252.2 | 3320.0 | 3408.2 | 3491.8 | 3581.1 | 3672.4 | 3785.8 | 3868.4 | 3941.8 |
| 55° | 3289.4 | 3381.0 | 3457.0 | 3538.0 | 3630.4 | 3723.2 | 3832.5 | 3946.9 | 4067.0 | 4186.0 | 4293.8 |
| 57.5° | 3442.2 | 3556.5 | 3646.8 | 3727.4 | 3826.4 | 3933.6 | 4051.0 | 4192.6 | 4329.6 | 4477.4 | 4616.4 |
| 60° | 3547.7 | 3699.2 | 3807.9 | 3904.8 | 4019.8 | 4138.8 | 4292.2 | 4459.5 | 4639.5 | 4823.2 | 5001.8 |
| 62.5° | 3665.2 | 3874.0 | 4022.8 | 4161.4 | 4297.3 | 4429.7 | 4602.6 | 4810.4 | 5054.6 | 5276.8 | 5513.2 |
| 65° | 3843.2 | 4118.8 | 4338.4 | 4514.8 | 4707.8 | 4900.7 | 5102.3 | 5345.0 | 5622.6 | 5946.8 | 6222.3 |
| 67.5° | 3961.2 | 4284.5 | 4563.6 | 4816.5 | 5041.8 | 5276.2 | 5530.7 | 5821.1 | 6156.2 | 6487.0 | 6829.8 |
| 69° | 3857.8 | 4186.0 | 4481.0 | 4759.5 | 5006.4 | 5258.8 | 5517.4 | 5809.8 | 6152.0 | 6517.8 | 6879.6 |
| 70° | 3673.9 | 3991.0 | 4295.8 | 4589.2 | 4830.4 | 5094.1 | 5348.5 | 5627.2 | 5974.0 | 6339.8 | 6733.3 |
| 72.5° | 2860.5 | 3125.5 | 3438.5 | 3721.6 | 4009.5 | 4250.2 | 4480.0 | 4759.6 | 5109.5 | 5457.8 | 5841.1 |
| 75° | 1873.4 | 2069.6 | 2356.0 | 2588.8 | 2837.7 | 3063.4 | 3230.2 | 3507.8 | 3720.2 | 4048.0 | 4404.0 |
| 77.5° | 1032.4 | 1138.4 | 1287.2 | 1477.1 | 1584.4 | 1711.5 | 1878.3 | 1979.4 | 2130.2 | 2359.6 | 2466.2 |
| 80° | 557.9 | 598.2 | 660.8 | 700.3 | 732.2 | 700.8 | 683.9 | 714.2 | 701.4 | 697.8 | 663.3 |
| 82.5° | 443.6 | 467.9 | 500.2 | 523.3 | 508.4 | 441.2 | 370.0 | 318.1 | 284.8 | 239.6 | 205.2 |
| 85° | 330.7 | 349.9 | 362.2 | 377.6 | 375.0 | 339.1 | 271.4 | 209.8 | 164.7 | 131.4 | 114.5 |
| 87.5° | 123.9 | 131.4 | 135.0 | 164.2 | 150.8 | 143.2 | 111.4 | 81.1 | 62.0 | 45.2 | 36.4 |
| 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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CANDELA DISTRIBUTION (continued):

| | 80° | 81° | 82° | 83° | 84° | 85° | 86° | 87° | 88° | 89° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1718.7 | 1718.7 | 1718.7 | 1718.7 | 1718.7 | 1718.7 | 1718.7 | 1718.7 | 1718.7 | 1718.7 | 1718.7 |
| 2.5° | 1723.4 | 1722.8 | 1722.8 | 1722.8 | 1723.4 | 1722.4 | 1721.3 | 1722.3 | 1721.8 | 1721.8 | 1721.8 |
| 5° | 1743.8 | 1743.4 | 1743.4 | 1743.8 | 1743.4 | 1743.8 | 1743.4 | 1741.3 | 1742.4 | 1742.8 | 1743.4 |
| 7.5° | 1779.3 | 1778.8 | 1778.8 | 1781.3 | 1780.8 | 1780.3 | 1779.8 | 1780.8 | 1779.3 | 1779.2 | 1780.3 |
| 10° | 1828.0 | 1830.0 | 1829.6 | 1831.1 | 1830.6 | 1829.6 | 1828.5 | 1829.6 | 1831.1 | 1831.6 | 1829.5 |
| 12.5° | 1887.5 | 1888.0 | 1887.0 | 1889.6 | 1888.0 | 1891.6 | 1887.5 | 1889.6 | 1891.6 | 1888.6 | 1890.1 |
| 15° | 1935.8 | 1935.8 | 1937.8 | 1938.3 | 1937.8 | 1938.8 | 1941.9 | 1940.4 | 1938.8 | 1941.4 | 1942.4 |
| 17.5° | 1965.0 | 1966.6 | 1967.0 | 1967.6 | 1968.6 | 1969.6 | 1970.1 | 1969.6 | 1970.1 | 1971.1 | 1973.2 |
| 20° | 1971.6 | 1971.2 | 1972.2 | 1972.7 | 1974.2 | 1974.2 | 1975.2 | 1974.7 | 1976.3 | 1976.8 | 1977.3 |
| 22.5° | 1959.9 | 1960.4 | 1960.8 | 1962.4 | 1961.9 | 1963.0 | 1963.4 | 1965.0 | 1964.4 | 1965.5 | 1966.0 |
| 25° | 1944.0 | 1945.0 | 1945.5 | 1945.0 | 1945.0 | 1945.5 | 1946.0 | 1945.5 | 1947.6 | 1948.6 | 1948.6 |
| 27.5° | 1933.7 | 1933.7 | 1935.2 | 1934.7 | 1933.7 | 1934.8 | 1934.2 | 1934.2 | 1934.2 | 1934.8 | 1936.3 |
| 30° | 1937.8 | 1936.3 | 1935.2 | 1935.2 | 1934.7 | 1933.7 | 1932.7 | 1931.1 | 1931.1 | 1931.6 | 1931.1 |
| 32.5° | 1959.8 | 1956.8 | 1955.2 | 1953.7 | 1952.6 | 1950.1 | 1947.0 | 1946.0 | 1943.4 | 1943.4 | 1942.4 |
| 35° | 2016.3 | 2012.7 | 2012.7 | 2007.0 | 2004.0 | 2002.4 | 1999.9 | 1992.2 | 1992.7 | 1989.6 | 1988.6 |
| 37.5° | 2128.6 | 2122.5 | 2119.9 | 2125.0 | 2115.4 | 2119.4 | 2110.7 | 2107.1 | 2109.2 | 2103.5 | 2106.6 |
| 40° | 2317.4 | 2327.2 | 2323.1 | 2328.8 | 2331.4 | 2332.4 | 2332.4 | 2323.6 | 2332.4 | 2318.5 | 2323.1 |
| 42.5° | 2589.9 | 2615.6 | 2624.8 | 2627.9 | 2643.8 | 2639.7 | 2635.0 | 2634.6 | 2634.0 | 2640.6 | 2637.1 |
| 45° | 2932.6 | 2936.2 | 2979.8 | 2988.0 | 2996.8 | 3006.5 | 3003.9 | 3015.2 | 3023.4 | 3012.2 | 3013.7 |
| 47.5° | 3283.0 | 3319.4 | 3351.2 | 3368.7 | 3387.7 | 3378.0 | 3385.6 | 3390.2 | 3419.5 | 3416.4 | 3413.9 |
| 50° | 3668.8 | 3729.9 | 3746.8 | 3765.8 | 3780.7 | 3810.4 | 3807.8 | 3825.8 | 3822.8 | 3846.8 | 3849.9 |
| 52.5° | 4034.7 | 4101.8 | 4170.1 | 4199.8 | 4222.4 | 4256.8 | 4270.2 | 4289.6 | 4282.4 | 4280.4 | 4298.4 |
| 55° | 4398.4 | 4510.8 | 4588.8 | 4665.2 | 4707.8 | 4753.4 | 4773.0 | 4800.6 | 4813.0 | 4818.6 | 4796.0 |
| 57.5° | 4759.0 | 4894.0 | 5025.8 | 5120.3 | 5186.0 | 5254.7 | 5291.1 | 5321.4 | 5356.8 | 5368.6 | 5357.3 |
| 60° | 5180.8 | 5378.4 | 5551.2 | 5677.4 | 5798.5 | 5873.4 | 5951.9 | 6009.4 | 6020.2 | 6068.9 | 6100.2 |
| 62.5° | 5742.6 | 5983.2 | 6202.3 | 6386.0 | 6573.7 | 6713.8 | 6855.4 | 6911.8 | 6967.8 | 7005.7 | 7028.8 |
| 65° | 6508.6 | 6825.6 | 7128.4 | 7389.5 | 7619.9 | 7852.8 | 8018.0 | 8104.7 | 8216.0 | 8238.0 | 8214.0 |
| 67.5° | 7180.2 | 7554.2 | 7930.2 | 8262.7 | 8511.6 | 8753.2 | 8949.2 | 9092.8 | 9197.0 | 9248.3 | 9269.8 |
| 69° | 7254.0 | 7634.2 | 8018.5 | 8350.0 | 8651.0 | 8892.2 | 9092.8 | 9235.4 | 9339.1 | 9427.9 | 9443.2 |
| 70° | 7102.7 | 7529.6 | 7903.0 | 8237.6 | 8548.0 | 8793.7 | 8973.2 | 9136.4 | 9254.4 | 9322.7 | 9346.8 |
| 72.5° | 6235.1 | 6618.9 | 6996.0 | 7381.3 | 7647.6 | 7942.6 | 8090.4 | 8221.2 | 8378.2 | 8467.4 | 8447.9 |
| 75° | 4725.2 | 5057.2 | 5386.0 | 5674.4 | 5879.6 | 5988.4 | 6161.2 | 6288.0 | 6264.9 | 6415.2 | 6419.3 |
| 77.5° | 2665.3 | 2708.4 | 2931.6 | 2901.8 | 3000.3 | 3002.9 | 3028.5 | 3073.2 | 2987.5 | 3163.5 | 3037.3 |
| 80° | 646.4 | 637.8 | 683.9 | 629.6 | 624.9 | 620.2 | 604.9 | 635.2 | 639.3 | 608.0 | 613.6 |
| 82.5° | 189.9 | 181.6 | 178.0 | 173.4 | 181.2 | 178.6 | 180.0 | 181.2 | 186.2 | 179.6 | 186.8 |
| 85° | 104.1 | 98.0 | 97.5 | 95.0 | 94.4 | 88.8 | 88.2 | 88.2 | 84.6 | 85.6 | 85.2 |
| 87.5° | 40.0 | 37.4 | 35.4 | 33.8 | 33.4 | 31.8 | 30.3 | 27.7 | 24.6 | 22.0 | 20.5 |
| 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)