

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: P598586

Luminaire Tested: **PMM-SA4D-835-U-T4W**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P598586
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-543-14)
Test Lab: INNOVATIONS CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: PMM-SA4D-835-U-T4W
Description: MESA POST TOP DECORATIVE LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS.
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21990 lumens
Efficiency: N/A
Efficacy: 84.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

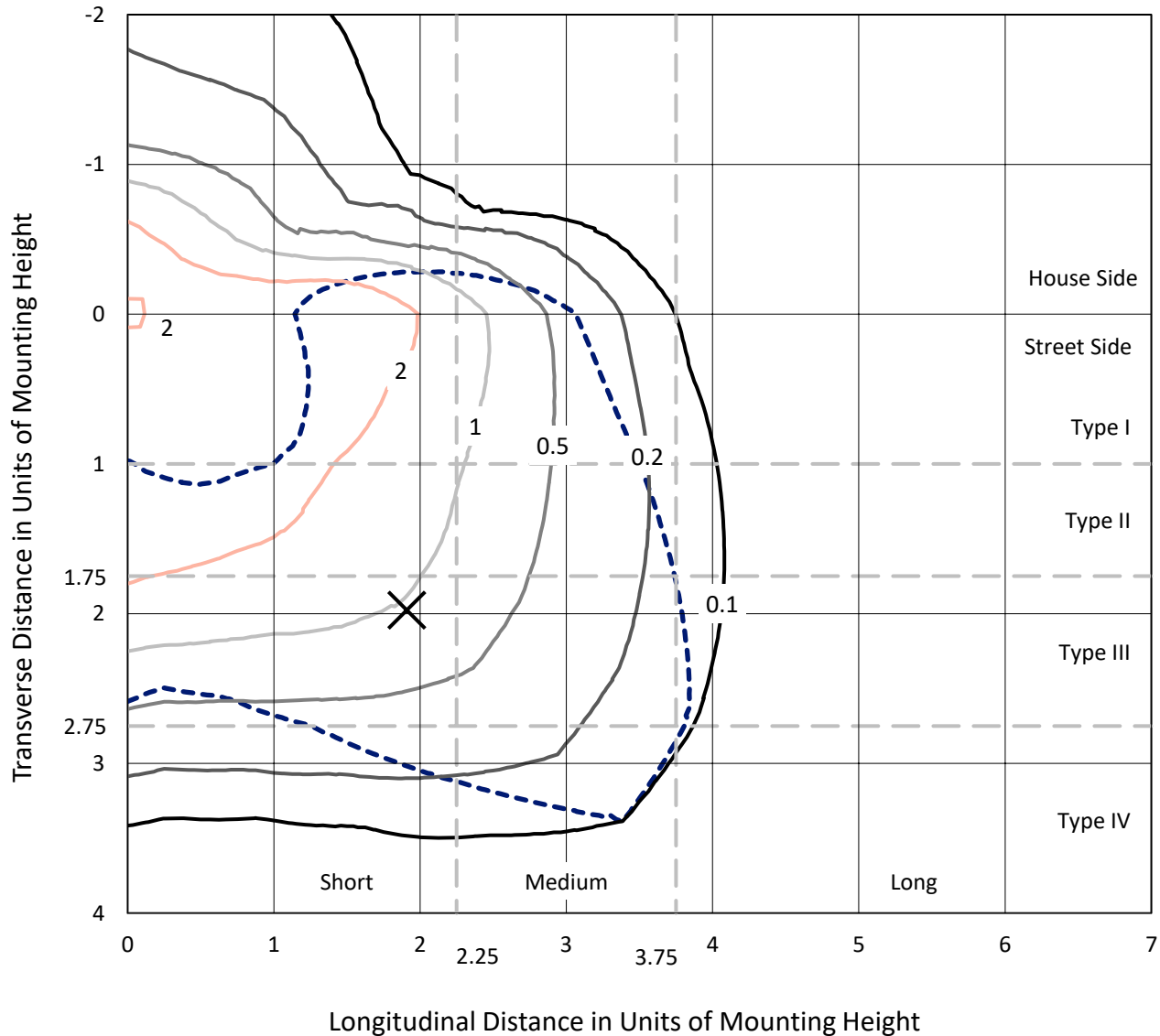
Input Watts (W): 259
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

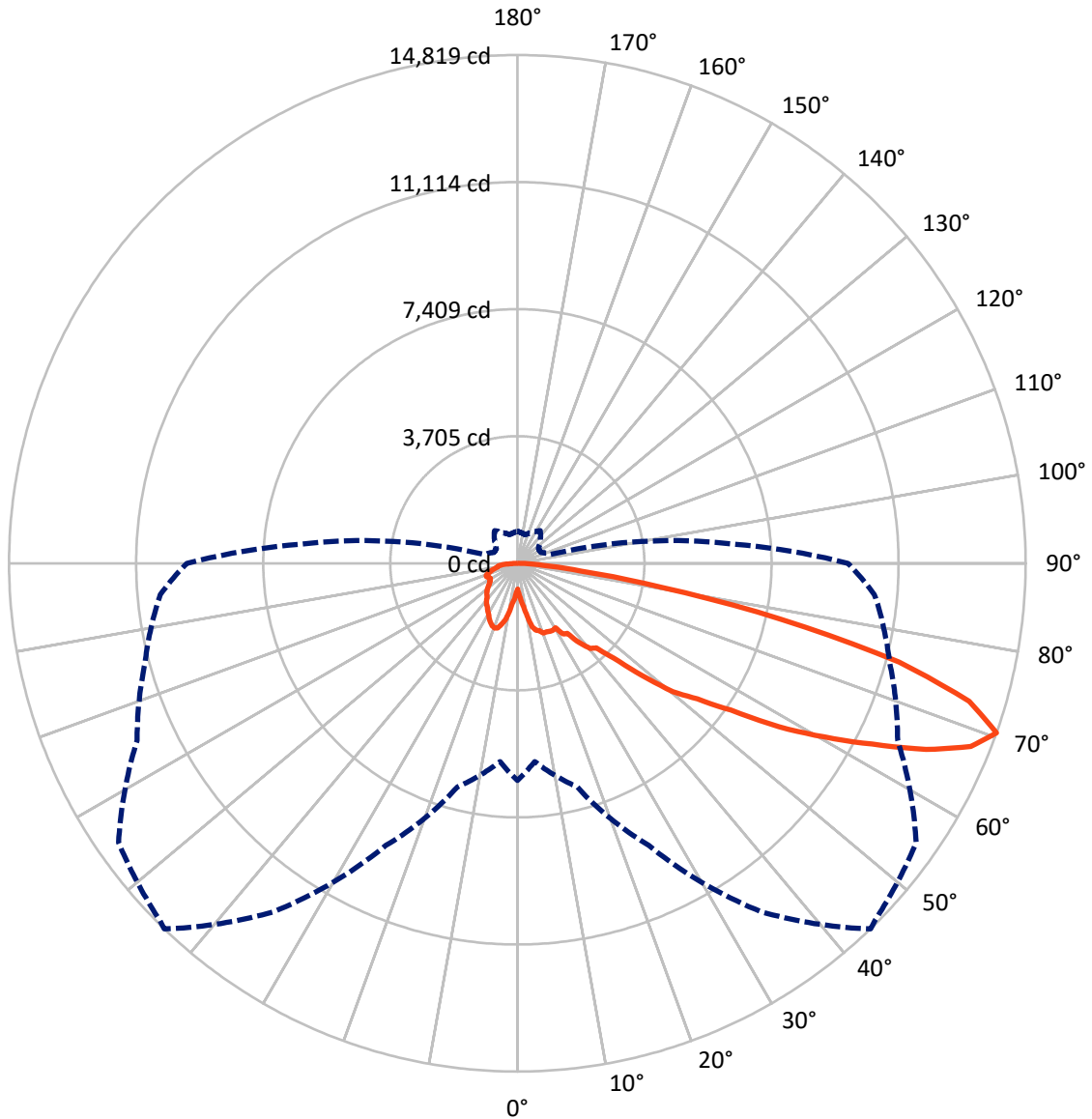
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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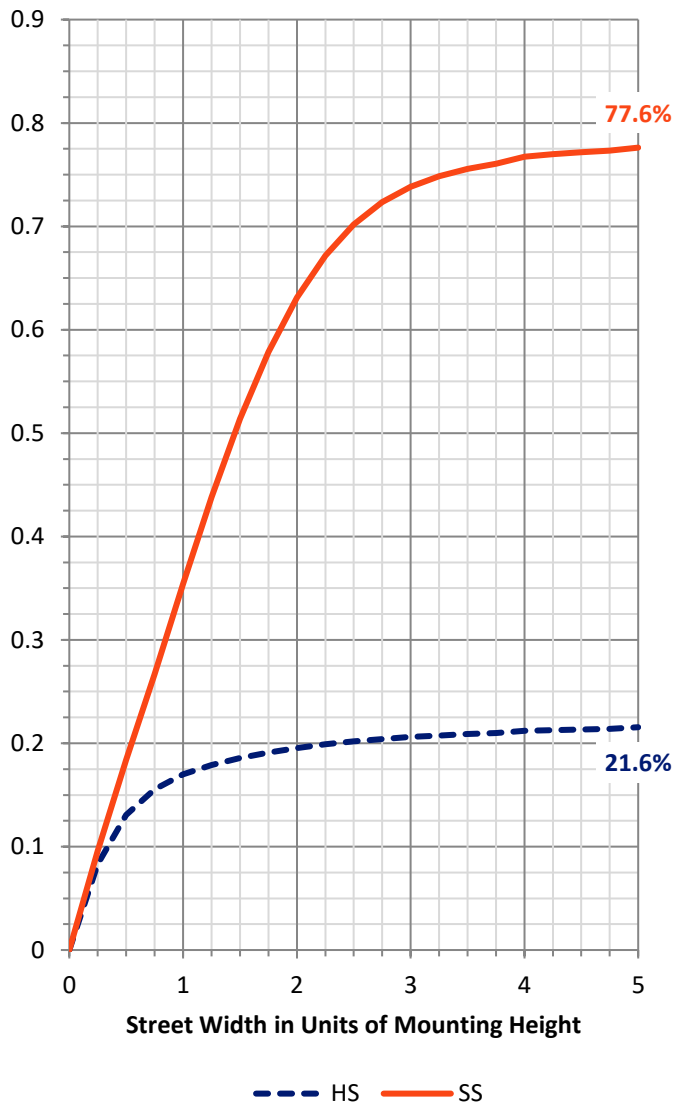
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 4851.9 | 0.0 | 4851.9 |
| | % Fixture | 22.1 | 0.0 | 22.1 |
| Street Side | Lumens | 17138.1 | 0.0 | 17138.1 |
| | % Fixture | 77.9 | 0.0 | 77.9 |
| Total | Lumens | 21990.0 | 0.0 | 21990.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 117.2 | 0.5 |
| 10°-20° | 539.7 | 2.5 |
| 20°-30° | 1008.5 | 4.6 |
| 30°-40° | 1618.8 | 7.4 |
| 40°-50° | 2732.4 | 12.4 |
| 50°-60° | 4869.1 | 22.1 |
| 60°-70° | 6660.3 | 30.3 |
| 70°-80° | 3916.6 | 17.8 |
| 80°-90° | 527.4 | 2.4 |
| 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° | 21990.0 | 100.0 |
| 0°-180° | 21990.0 | 100.0 |



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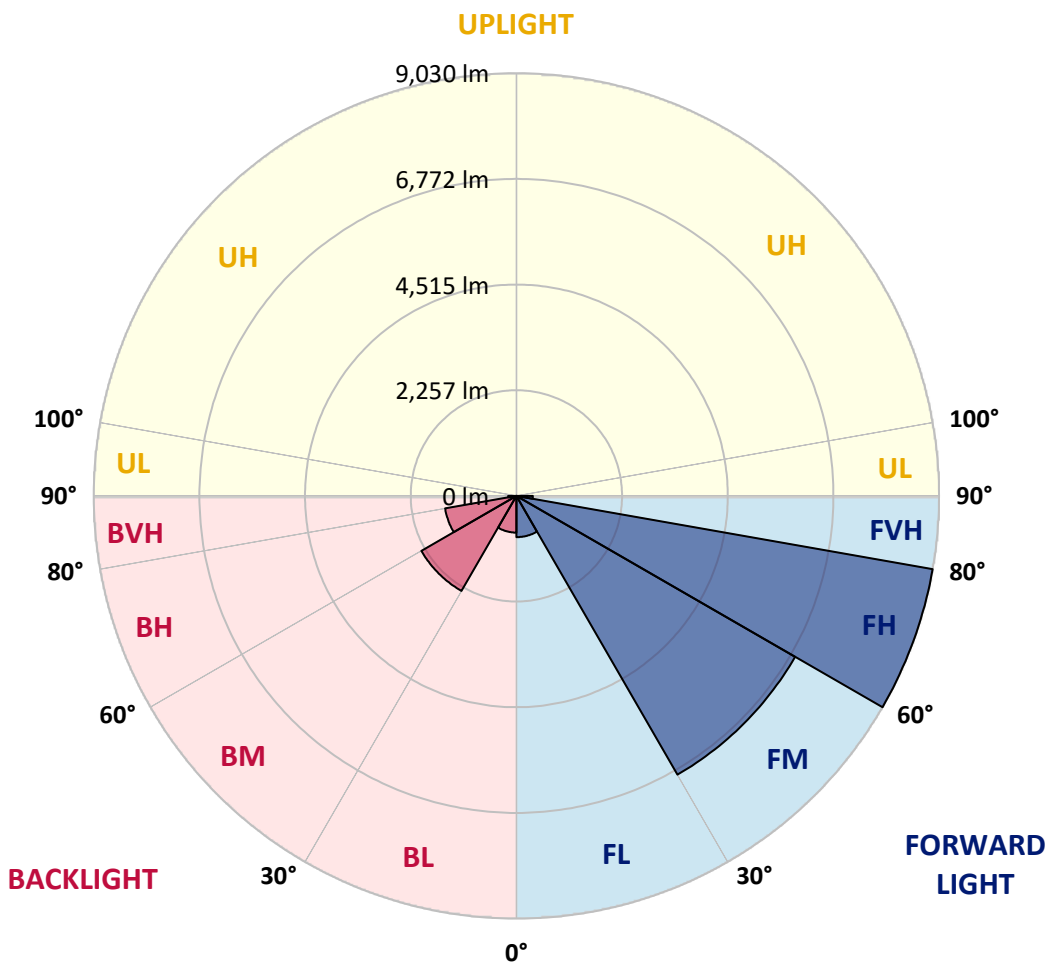
CATALOG NUMBER: PMM-SA4D-835-U-T4W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 881.2 | 4.0 | | | |
| FM (30°-60°) | 6875.7 | 31.3 | | | |
| FH (60°-80°) | 9029.8 | 41.1 | | | G4/12000 |
| FVH (80°-90°) | 351.5 | 1.6 | | | G3/500 |
| BL (0°-30°) | 784.2 | 3.6 | B2/1000 | | |
| BM (30°-60°) | 2344.7 | 10.7 | B2/2500 | | |
| BH (60°-80°) | 1547.2 | 7.0 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 175.9 | 0.8 | | | G2/225 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 44° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 747.5 | 747.5 | 747.5 | 747.5 | 747.5 | 747.5 | 747.5 | 747.5 | 747.5 | 747.5 | 747.5 |
| 2.5° | 907.1 | 889.0 | 845.7 | 860.2 | 878.2 | 885.4 | 883.6 | 881.8 | 853.9 | 843.9 | 893.5 |
| 5° | 1232.6 | 1192.9 | 1161.3 | 1148.7 | 1107.2 | 1074.8 | 1054.9 | 1107.2 | 1099.1 | 1112.6 | 1146.9 |
| 7.5° | 1539.1 | 1513.9 | 1442.6 | 1417.4 | 1332.6 | 1276.7 | 1270.4 | 1311.9 | 1322.7 | 1301.1 | 1359.7 |
| 10° | 1736.6 | 1693.3 | 1678.9 | 1618.5 | 1559.9 | 1550.8 | 1545.4 | 1526.5 | 1500.3 | 1498.5 | 1446.2 |
| 12.5° | 1889.9 | 1912.4 | 1924.1 | 1854.7 | 1856.5 | 1889.0 | 1871.8 | 1795.2 | 1751.0 | 1673.5 | 1679.8 |
| 15° | 2164.9 | 2197.3 | 2104.5 | 2060.3 | 1975.5 | 2024.2 | 2017.9 | 1953.9 | 1947.6 | 1897.1 | 1838.5 |
| 17.5° | 2404.7 | 2419.1 | 2264.0 | 2163.1 | 2134.2 | 2063.9 | 2082.8 | 2084.6 | 2001.7 | 2091.8 | 2039.5 |
| 20° | 2424.5 | 2475.9 | 2297.4 | 2096.3 | 2182.9 | 2173.9 | 2176.6 | 2158.6 | 2049.5 | 2198.2 | 2178.4 |
| 22.5° | 2521.9 | 2443.5 | 2283.0 | 2136.0 | 2158.6 | 2172.1 | 2184.7 | 2163.1 | 2156.8 | 2239.7 | 2300.1 |
| 25° | 2503.9 | 2478.6 | 2316.3 | 2191.9 | 2194.6 | 2197.3 | 2203.6 | 2268.6 | 2261.3 | 2374.0 | 2405.6 |
| 27.5° | 2672.5 | 2633.7 | 2326.3 | 2295.6 | 2225.3 | 2209.9 | 2166.7 | 2301.9 | 2407.4 | 2404.7 | 2578.7 |
| 30° | 2993.5 | 2953.8 | 2557.1 | 2467.8 | 2340.7 | 2183.8 | 2266.8 | 2447.1 | 2530.0 | 2558.0 | 2778.9 |
| 32.5° | 3494.8 | 3559.7 | 3011.5 | 2651.8 | 2494.0 | 2459.7 | 2450.7 | 2432.7 | 2638.2 | 2776.2 | 2977.3 |
| 35° | 4214.3 | 4162.9 | 3547.1 | 3045.8 | 2655.4 | 2508.4 | 2528.2 | 2638.2 | 2882.6 | 2971.8 | 3157.6 |
| 37.5° | 5038.4 | 4932.0 | 4233.3 | 3492.1 | 3120.6 | 2936.7 | 2870.9 | 2977.3 | 3031.4 | 3101.7 | 3481.3 |
| 40° | 5876.1 | 5616.4 | 4906.8 | 4079.1 | 3400.1 | 3261.3 | 3203.6 | 3072.8 | 3200.0 | 3342.4 | 3824.8 |
| 42.5° | 6684.8 | 6483.8 | 5639.8 | 4779.7 | 3870.8 | 3375.8 | 3344.2 | 3216.2 | 3610.2 | 3760.8 | 4320.7 |
| 45° | 7532.4 | 7066.2 | 6390.9 | 5570.4 | 4558.8 | 3937.5 | 3890.6 | 3660.7 | 4165.6 | 4479.4 | 5020.4 |
| 47.5° | 8102.2 | 7670.3 | 7078.9 | 6212.4 | 5134.9 | 4877.0 | 4787.8 | 4394.6 | 4852.7 | 5260.2 | 6101.5 |
| 50° | 8641.4 | 8196.9 | 7575.7 | 6914.8 | 6178.1 | 5881.5 | 5691.2 | 5036.6 | 5708.4 | 6372.0 | 7487.3 |
| 52.5° | 9413.2 | 9015.6 | 8152.7 | 7622.6 | 7298.9 | 6569.4 | 6427.9 | 6068.1 | 6709.2 | 7604.5 | 9002.1 |
| 55° | 10238.3 | 9696.4 | 8914.6 | 8620.7 | 8490.0 | 7555.8 | 7440.4 | 7211.4 | 8041.8 | 8865.9 | 10474.5 |
| 57.5° | 10602.5 | 10037.2 | 9606.2 | 9430.4 | 9419.6 | 8989.5 | 8856.9 | 8697.3 | 9404.2 | 9947.9 | 11860.3 |
| 60° | 10892.0 | 10285.1 | 10112.9 | 10211.2 | 10568.3 | 10285.1 | 10112.9 | 9972.3 | 10513.3 | 11017.3 | 12991.0 |
| 62.5° | 10838.8 | 10230.1 | 10318.5 | 10617.8 | 11529.4 | 11612.4 | 11479.8 | 11139.0 | 11612.4 | 11893.7 | 13639.3 |
| 65° | 9980.4 | 9417.8 | 9932.6 | 10643.1 | 12423.0 | 13085.7 | 13078.5 | 12186.7 | 12350.8 | 12350.8 | 13570.8 |
| 67.5° | 8476.4 | 7894.0 | 8737.0 | 10420.4 | 13040.6 | 14253.3 | 14255.1 | 13297.6 | 12418.4 | 12304.8 | 12510.4 |
| 70° | 6329.6 | 5802.1 | 6749.8 | 9075.1 | 12403.1 | 14818.6 | 14736.6 | 14193.8 | 12232.7 | 11240.0 | 10450.1 |
| 72.5° | 3780.6 | 3439.8 | 4311.7 | 6606.4 | 10580.0 | 13779.0 | 13997.2 | 13161.4 | 11198.5 | 9347.4 | 7470.2 |
| 75° | 1716.7 | 1568.9 | 2026.0 | 3795.1 | 7553.1 | 11493.4 | 11730.5 | 11107.4 | 8894.8 | 6722.7 | 4317.1 |
| 77.5° | 734.8 | 695.2 | 884.5 | 1683.4 | 4164.7 | 7859.7 | 8345.7 | 7938.1 | 6026.6 | 3906.9 | 1909.7 |
| 80° | 472.5 | 447.2 | 543.7 | 809.7 | 1934.0 | 4246.8 | 4665.1 | 4512.8 | 3070.1 | 1519.3 | 672.6 |
| 82.5° | 282.2 | 274.1 | 363.4 | 508.5 | 1054.9 | 1869.1 | 2106.3 | 2162.2 | 1274.9 | 681.6 | 385.0 |
| 85° | 154.2 | 156.0 | 199.3 | 308.4 | 633.0 | 727.6 | 779.0 | 847.6 | 600.5 | 394.9 | 186.6 |
| 87.5° | 51.4 | 59.5 | 80.2 | 125.3 | 225.4 | 205.6 | 206.5 | 239.8 | 253.4 | 164.1 | 59.5 |
| 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):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 747.5 | 747.5 | 747.5 | 747.5 | 747.5 | 747.5 | 747.5 | 747.5 | 747.5 | 747.5 | 747.5 |
| 2.5° | 901.7 | 885.4 | 843.9 | 846.7 | 862.0 | 865.6 | 870.1 | 843.9 | 838.5 | 888.1 | 892.6 |
| 5° | 1152.3 | 1099.1 | 1074.8 | 1066.7 | 1043.2 | 1035.1 | 1078.4 | 1098.2 | 1118.0 | 1156.8 | 1175.8 |
| 7.5° | 1353.4 | 1293.9 | 1249.7 | 1209.1 | 1174.9 | 1155.0 | 1228.0 | 1284.0 | 1318.2 | 1397.6 | 1433.6 |
| 10° | 1445.3 | 1394.0 | 1377.7 | 1345.3 | 1371.4 | 1430.9 | 1444.4 | 1446.2 | 1522.0 | 1520.2 | 1535.5 |
| 12.5° | 1628.4 | 1595.0 | 1541.8 | 1553.5 | 1622.1 | 1683.4 | 1666.3 | 1692.4 | 1719.4 | 1784.4 | 1754.6 |
| 15° | 1795.2 | 1786.2 | 1736.6 | 1744.7 | 1758.2 | 1834.9 | 1844.8 | 1870.9 | 1912.4 | 1963.8 | 1928.6 |
| 17.5° | 2000.8 | 1997.2 | 1876.3 | 1865.5 | 1897.1 | 1971.9 | 1948.5 | 1902.5 | 2039.5 | 2094.5 | 2080.1 |
| 20° | 2140.5 | 2113.5 | 1958.4 | 1912.4 | 1992.6 | 2002.6 | 1975.5 | 1902.5 | 2021.5 | 2141.4 | 2173.9 |
| 22.5° | 2256.8 | 2225.3 | 2065.7 | 1975.5 | 1959.3 | 1963.8 | 1963.8 | 1950.3 | 2008.9 | 2107.2 | 2106.3 |
| 25° | 2350.6 | 2380.4 | 2177.5 | 2090.9 | 2004.4 | 1896.2 | 1882.6 | 1894.4 | 1927.7 | 2117.1 | 2110.8 |
| 27.5° | 2585.9 | 2503.9 | 2215.4 | 2150.4 | 1972.8 | 1802.4 | 1839.4 | 1857.4 | 1868.2 | 2075.6 | 2109.9 |
| 30° | 2739.2 | 2764.5 | 2350.6 | 2185.6 | 1926.8 | 1697.8 | 1710.4 | 1762.7 | 1825.8 | 2071.1 | 2081.0 |
| 32.5° | 2945.7 | 2891.6 | 2561.6 | 2127.0 | 1804.2 | 1634.7 | 1611.3 | 1681.6 | 1775.4 | 1998.1 | 2025.1 |
| 35° | 3137.7 | 3201.8 | 2650.9 | 2116.2 | 1718.5 | 1540.0 | 1565.3 | 1589.6 | 1687.0 | 1916.9 | 1948.5 |
| 37.5° | 3588.6 | 3442.5 | 2901.5 | 2063.9 | 1647.3 | 1492.2 | 1465.2 | 1502.2 | 1585.1 | 1762.7 | 1835.8 |
| 40° | 3931.2 | 3940.2 | 2955.6 | 1998.1 | 1511.2 | 1423.7 | 1366.0 | 1403.0 | 1438.1 | 1579.7 | 1611.3 |
| 42.5° | 4574.1 | 4377.5 | 3088.2 | 1853.8 | 1425.5 | 1320.9 | 1288.5 | 1304.7 | 1310.1 | 1369.6 | 1421.9 |
| 45° | 5391.9 | 4931.1 | 3140.5 | 1659.9 | 1312.8 | 1278.5 | 1212.7 | 1204.6 | 1174.9 | 1183.0 | 1229.0 |
| 47.5° | 6523.4 | 5794.9 | 3102.6 | 1453.5 | 1212.7 | 1223.5 | 1128.9 | 1091.9 | 1050.4 | 1060.3 | 1103.6 |
| 50° | 7986.8 | 6898.5 | 3099.9 | 1278.5 | 1144.2 | 1151.4 | 1073.9 | 1007.1 | 965.7 | 986.4 | 1024.3 |
| 52.5° | 9628.7 | 8005.8 | 3112.5 | 1158.6 | 1069.4 | 1065.8 | 1037.8 | 956.7 | 923.3 | 944.9 | 988.2 |
| 55° | 11199.4 | 8957.9 | 3206.3 | 1082.9 | 991.8 | 998.1 | 1008.9 | 940.4 | 903.5 | 923.3 | 968.4 |
| 57.5° | 12566.3 | 9709.9 | 3171.1 | 1002.6 | 919.7 | 948.5 | 977.4 | 917.9 | 889.9 | 918.8 | 963.9 |
| 60° | 13522.1 | 10058.8 | 2893.4 | 926.0 | 866.5 | 906.2 | 962.1 | 915.2 | 911.6 | 973.8 | 1027.9 |
| 62.5° | 13871.0 | 9929.9 | 2352.4 | 865.6 | 834.9 | 900.7 | 997.2 | 974.7 | 978.3 | 1054.9 | 1129.8 |
| 65° | 13361.6 | 9251.8 | 1754.6 | 826.8 | 810.6 | 926.9 | 1078.4 | 1009.8 | 960.3 | 1023.4 | 1091.9 |
| 67.5° | 11912.6 | 8046.3 | 1282.1 | 793.5 | 782.6 | 968.4 | 1153.2 | 1006.2 | 914.3 | 978.3 | 1034.2 |
| 70° | 9637.8 | 6351.2 | 992.7 | 751.1 | 745.7 | 940.4 | 1160.4 | 979.2 | 864.7 | 906.2 | 937.7 |
| 72.5° | 6603.7 | 4348.7 | 822.3 | 710.5 | 681.6 | 833.1 | 1101.8 | 918.8 | 805.2 | 829.5 | 855.7 |
| 75° | 3690.5 | 2440.8 | 691.6 | 660.0 | 596.9 | 742.1 | 1033.3 | 882.7 | 761.0 | 768.2 | 804.3 |
| 77.5° | 1656.3 | 1055.8 | 587.0 | 593.3 | 520.3 | 656.4 | 944.0 | 825.0 | 693.4 | 677.1 | 713.2 |
| 80° | 626.6 | 514.8 | 476.1 | 501.3 | 437.3 | 568.9 | 851.2 | 772.7 | 622.1 | 601.4 | 622.1 |
| 82.5° | 363.4 | 312.0 | 353.4 | 385.9 | 347.1 | 523.0 | 812.4 | 724.9 | 548.2 | 495.9 | 513.9 |
| 85° | 168.6 | 161.4 | 211.9 | 250.7 | 242.5 | 407.5 | 695.2 | 545.5 | 390.4 | 330.0 | 365.2 |
| 87.5° | 44.2 | 49.6 | 74.8 | 88.4 | 90.2 | 139.8 | 267.8 | 202.9 | 152.4 | 115.4 | 110.9 |
| 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)