

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: P197766

Luminaire Tested: **TT-C5-LED-E1-5WQ-PM-MS/DIM**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197766
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P115468)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: TT-C5-LED-E1-5WQ-PM-MS/DIM
Description: TOPTIER LED AREA/SITE LUMINAIRE
WIDE DISTRIBUTION WITH DIMMING OCCUPANCY SENSOR
Light Source: (160) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8674.3 lumens
Efficiency: N/A
Efficacy: 112.7 lumens/watt
Luminous Opening: Circular (Dia: 1.12' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G3

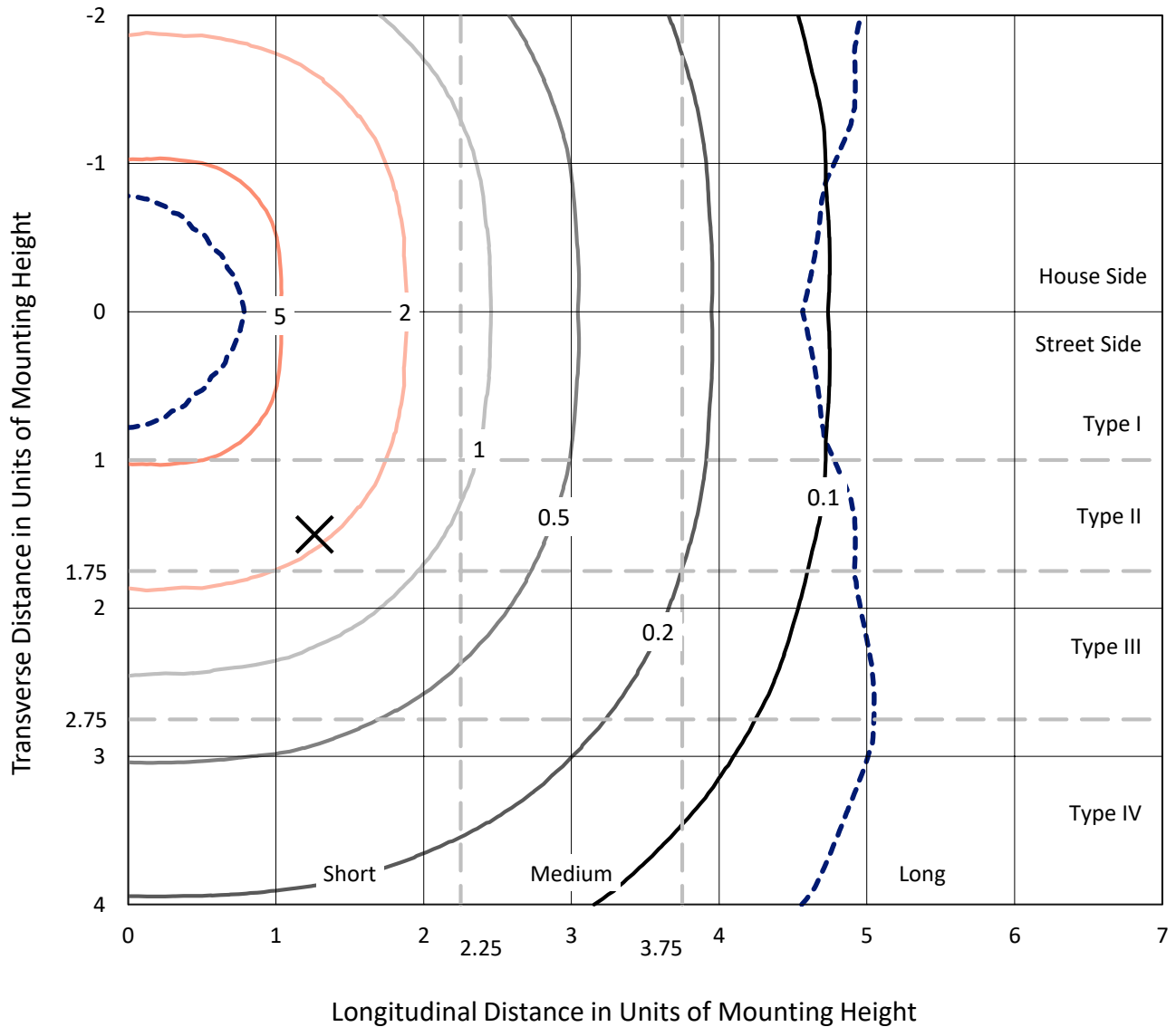
Input Watts (W): 77
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

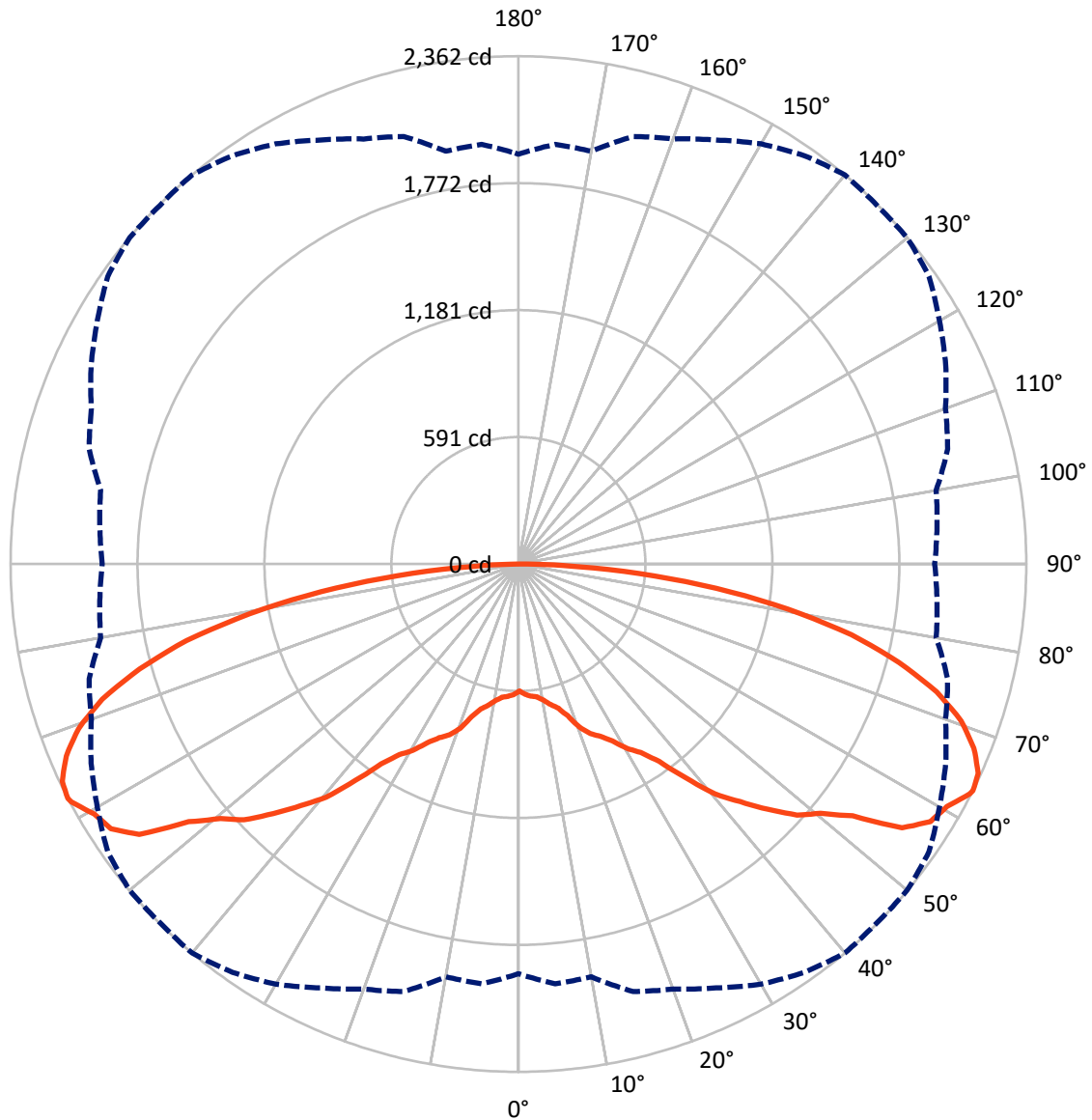
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.7 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 63-Deg Vertical

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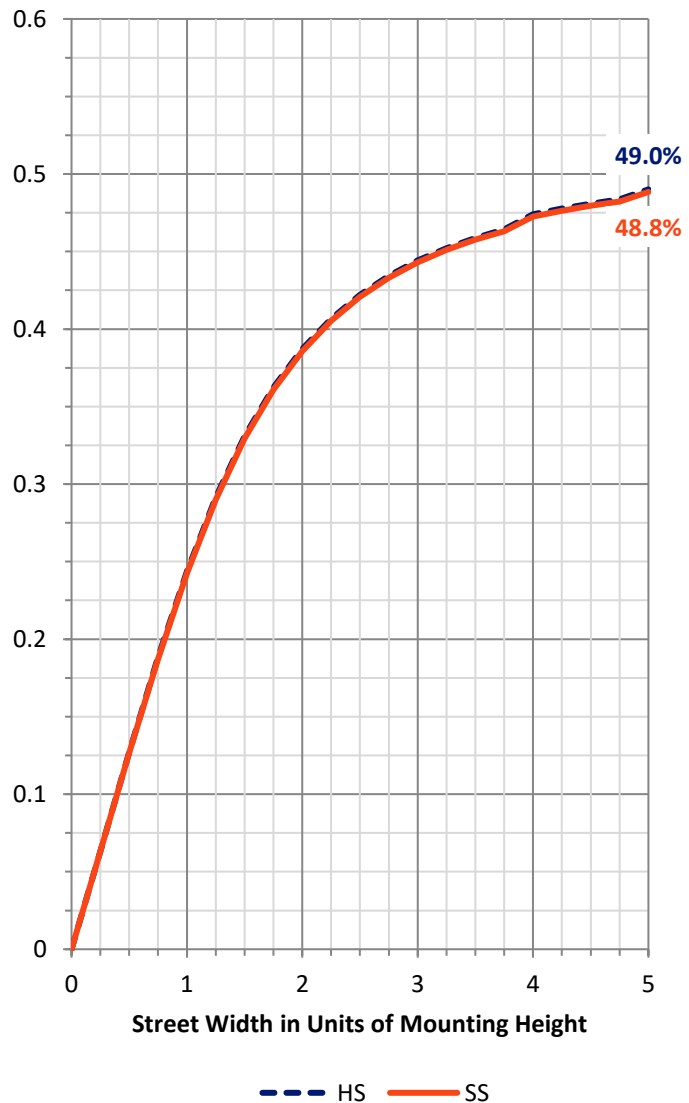
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 4337.1 | 0.0 | 4337.1 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 4337.1 | 0.0 | 4337.1 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 8674.3 | 0.0 | 8674.3 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 59.6 | 0.7 |
| 10°-20° | 202.6 | 2.3 |
| 20°-30° | 412.0 | 4.7 |
| 30°-40° | 710.1 | 8.2 |
| 40°-50° | 1196.1 | 13.8 |
| 50°-60° | 1761.3 | 20.3 |
| 60°-70° | 2094.5 | 24.1 |
| 70°-80° | 1695.6 | 19.5 |
| 80°-90° | 542.5 | 6.3 |
| 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° | 8674.3 | 100.0 |
| 0°-180° | 8674.3 | 100.0 |



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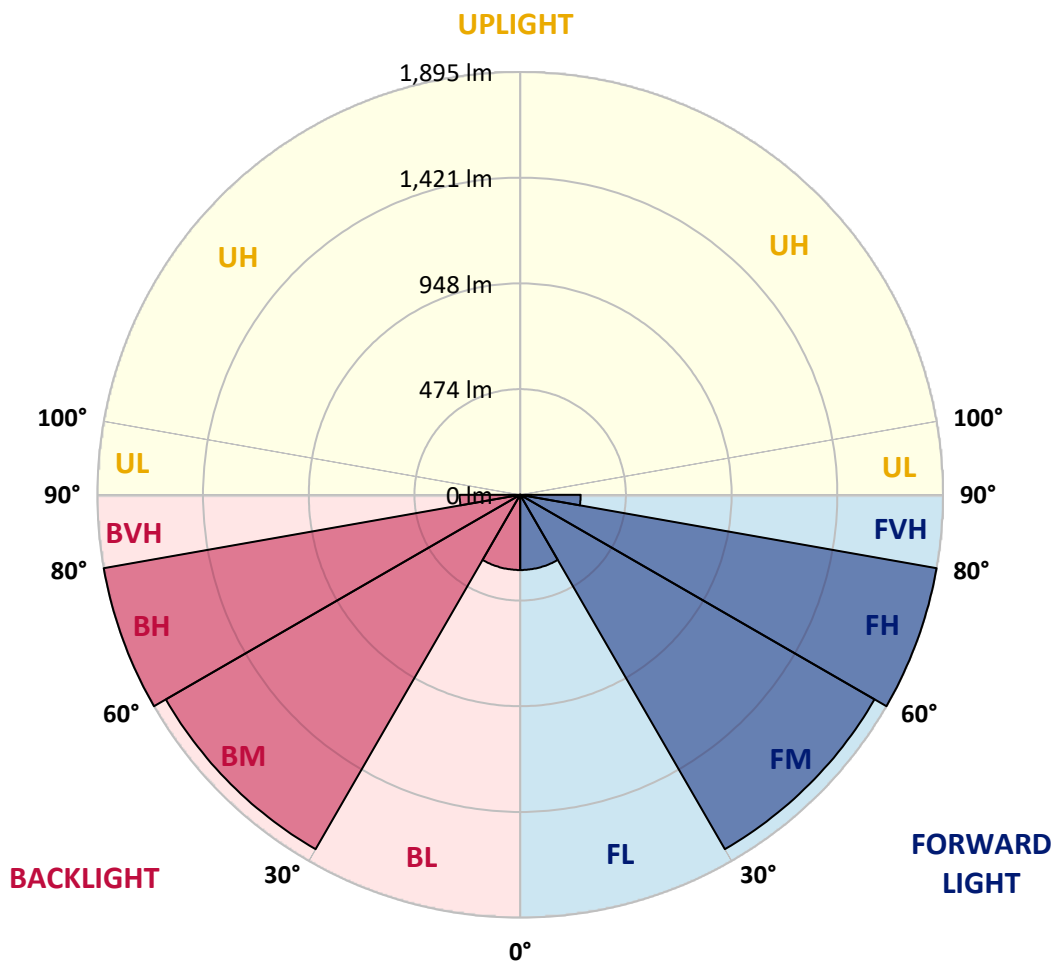
CATALOG NUMBER: TT-C5-LED-E1-5WQ-PM-MS/DIM

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 337.1 | 3.9 | | | |
| FM | (30°-60°) | 1833.7 | 21.1 | | | |
| FH | (60°-80°) | 1895.0 | 21.8 | | | G2/5000 |
| FVH | (80°-90°) | 271.2 | 3.1 | | | G3/500 |
| BL | (0°-30°) | 337.1 | 3.9 | B1/500 | | |
| BM | (30°-60°) | 1833.7 | 21.1 | B2/2500 | | |
| BH | (60°-80°) | 1895.0 | 21.8 | B3/2500 | | G2/5000 |
| BVH | (80°-90°) | 271.2 | 3.1 | | | G3/500 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 590.5 | 590.5 | 590.5 | 590.5 | 590.5 | 590.5 | 590.5 | 590.5 | 590.5 | 590.5 | 590.5 |
| 2.5° | 609.1 | 609.1 | 609.1 | 609.1 | 609.1 | 609.1 | 607.3 | 609.1 | 607.3 | 607.3 | 607.3 |
| 5° | 620.7 | 620.7 | 620.7 | 620.7 | 619.2 | 619.2 | 617.5 | 617.5 | 617.5 | 615.7 | 617.5 |
| 7.5° | 625.9 | 625.9 | 625.9 | 625.9 | 624.2 | 624.2 | 624.2 | 624.2 | 624.2 | 624.2 | 624.2 |
| 10° | 637.5 | 637.5 | 639.3 | 641.0 | 644.2 | 644.2 | 644.2 | 646.0 | 644.2 | 644.2 | 644.2 |
| 12.5° | 662.8 | 661.1 | 664.5 | 667.7 | 671.2 | 672.7 | 672.7 | 672.7 | 671.2 | 671.2 | 672.7 |
| 15° | 698.0 | 694.7 | 696.2 | 698.0 | 699.7 | 701.4 | 701.4 | 699.7 | 696.2 | 696.2 | 696.2 |
| 17.5° | 743.3 | 738.3 | 736.6 | 734.8 | 734.8 | 738.3 | 741.5 | 740.0 | 741.5 | 740.0 | 741.5 |
| 20° | 797.0 | 793.5 | 793.5 | 793.5 | 795.3 | 801.9 | 808.6 | 812.1 | 810.4 | 807.1 | 812.1 |
| 22.5° | 832.2 | 833.9 | 842.3 | 840.6 | 838.8 | 845.5 | 853.9 | 860.6 | 857.4 | 852.4 | 855.7 |
| 25° | 870.8 | 870.8 | 882.6 | 887.6 | 882.6 | 882.6 | 885.9 | 890.8 | 887.6 | 884.2 | 887.6 |
| 27.5° | 914.4 | 914.4 | 919.5 | 924.5 | 921.0 | 921.0 | 926.2 | 934.6 | 932.9 | 931.2 | 932.9 |
| 30° | 966.4 | 959.7 | 954.7 | 963.1 | 971.5 | 973.2 | 978.2 | 991.6 | 995.0 | 993.3 | 996.6 |
| 32.5° | 1015.1 | 1005.0 | 1008.4 | 1013.4 | 1031.9 | 1038.6 | 1036.9 | 1047.0 | 1045.3 | 1040.3 | 1047.0 |
| 35° | 1062.1 | 1073.8 | 1080.5 | 1090.6 | 1097.3 | 1105.7 | 1105.7 | 1124.1 | 1127.5 | 1122.5 | 1127.5 |
| 37.5° | 1152.7 | 1157.7 | 1176.2 | 1177.8 | 1186.2 | 1218.1 | 1221.4 | 1246.6 | 1260.0 | 1253.3 | 1255.0 |
| 40° | 1276.8 | 1275.1 | 1288.6 | 1308.7 | 1325.5 | 1365.7 | 1377.5 | 1394.2 | 1406.0 | 1401.0 | 1407.7 |
| 42.5° | 1377.5 | 1364.2 | 1374.1 | 1417.7 | 1436.2 | 1466.4 | 1481.5 | 1489.9 | 1511.7 | 1505.0 | 1513.5 |
| 45° | 1449.6 | 1454.6 | 1468.2 | 1511.7 | 1523.4 | 1548.6 | 1583.8 | 1598.9 | 1627.4 | 1619.2 | 1624.1 |
| 47.5° | 1520.1 | 1543.7 | 1555.3 | 1575.4 | 1612.3 | 1645.9 | 1689.5 | 1704.6 | 1745.0 | 1741.5 | 1736.6 |
| 50° | 1612.3 | 1630.8 | 1644.2 | 1659.3 | 1709.8 | 1765.0 | 1801.9 | 1808.6 | 1822.2 | 1812.1 | 1828.9 |
| 52.5° | 1711.3 | 1709.8 | 1721.5 | 1763.3 | 1833.9 | 1855.7 | 1887.6 | 1917.8 | 1946.3 | 1956.4 | 1946.3 |
| 55° | 1842.3 | 1800.2 | 1849.0 | 1909.4 | 1939.6 | 1991.6 | 2068.8 | 2110.7 | 2166.1 | 2174.5 | 2157.7 |
| 57.5° | 1896.0 | 1896.0 | 1946.3 | 1981.4 | 2036.9 | 2129.2 | 2211.4 | 2231.5 | 2260.0 | 2244.9 | 2261.7 |
| 60° | 1889.3 | 1953.0 | 1953.0 | 2015.1 | 2105.7 | 2187.9 | 2218.1 | 2251.6 | 2290.2 | 2288.6 | 2288.6 |
| 62.5° | 1897.7 | 1959.7 | 1942.8 | 2050.3 | 2105.7 | 2172.8 | 2239.9 | 2302.0 | 2355.7 | 2354.0 | 2352.3 |
| 63° | 1905.9 | 1959.7 | 1949.7 | 2058.7 | 2104.0 | 2176.1 | 2256.7 | 2318.7 | 2362.4 | 2359.0 | 2360.7 |
| 65° | 1931.2 | 1916.1 | 1976.5 | 2045.3 | 2097.3 | 2204.7 | 2271.8 | 2320.4 | 2350.6 | 2348.9 | 2348.9 |
| 67.5° | 1884.1 | 1849.0 | 1934.6 | 1961.4 | 2060.4 | 2156.0 | 2208.0 | 2263.4 | 2285.2 | 2285.2 | 2281.8 |
| 70° | 1740.0 | 1754.9 | 1813.8 | 1857.4 | 1957.9 | 2043.6 | 2087.2 | 2157.7 | 2184.5 | 2184.5 | 2182.9 |
| 72.5° | 1593.9 | 1619.2 | 1659.3 | 1721.5 | 1817.0 | 1884.1 | 1936.1 | 2000.0 | 2035.2 | 2033.4 | 2033.4 |
| 75° | 1407.7 | 1431.3 | 1478.1 | 1537.0 | 1620.7 | 1686.3 | 1728.1 | 1788.6 | 1828.9 | 1844.0 | 1827.2 |
| 77.5° | 1198.0 | 1204.7 | 1248.3 | 1308.7 | 1382.5 | 1427.8 | 1491.7 | 1550.4 | 1583.8 | 1582.1 | 1577.1 |
| 80° | 943.0 | 951.3 | 988.3 | 1057.0 | 1097.3 | 1151.0 | 1209.7 | 1241.6 | 1270.1 | 1270.1 | 1266.7 |
| 82.5° | 650.9 | 669.5 | 706.4 | 751.7 | 793.5 | 840.6 | 872.5 | 904.4 | 927.9 | 926.2 | 921.0 |
| 85° | 367.4 | 375.8 | 411.0 | 439.7 | 471.4 | 501.6 | 523.4 | 543.7 | 563.7 | 563.7 | 560.3 |
| 87.5° | 110.7 | 99.0 | 119.1 | 130.9 | 147.6 | 162.7 | 172.8 | 192.9 | 206.5 | 191.3 | 191.3 |
| 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):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 590.5 | 590.5 | 590.5 | 590.5 | 590.5 | 590.5 | 590.5 | 590.5 |
| 2.5° | 609.1 | 609.1 | 609.1 | 609.1 | 609.1 | 609.1 | 609.1 | 609.1 |
| 5° | 617.5 | 619.2 | 619.2 | 620.7 | 620.7 | 620.7 | 620.7 | 620.7 |
| 7.5° | 624.2 | 624.2 | 624.2 | 624.2 | 625.9 | 625.9 | 625.9 | 625.9 |
| 10° | 644.2 | 646.0 | 644.2 | 644.2 | 641.0 | 639.3 | 639.3 | 639.3 |
| 12.5° | 672.7 | 674.4 | 674.4 | 671.2 | 667.7 | 664.5 | 662.8 | 661.1 |
| 15° | 699.7 | 704.6 | 701.4 | 699.7 | 696.2 | 698.0 | 698.0 | 699.7 |
| 17.5° | 741.5 | 743.3 | 738.3 | 734.8 | 733.1 | 736.6 | 740.0 | 741.5 |
| 20° | 813.8 | 810.4 | 800.4 | 797.0 | 793.5 | 793.5 | 797.0 | 797.0 |
| 22.5° | 859.1 | 850.7 | 844.0 | 840.6 | 840.6 | 840.6 | 835.6 | 828.9 |
| 25° | 890.8 | 885.9 | 880.9 | 884.2 | 887.6 | 882.6 | 870.8 | 869.0 |
| 27.5° | 934.6 | 924.5 | 922.8 | 921.0 | 922.8 | 919.5 | 917.8 | 911.1 |
| 30° | 991.6 | 978.2 | 974.8 | 971.5 | 961.4 | 958.1 | 961.4 | 966.4 |
| 32.5° | 1045.3 | 1036.9 | 1040.3 | 1033.5 | 1015.1 | 1008.4 | 1011.7 | 1010.1 |
| 35° | 1122.5 | 1107.4 | 1107.4 | 1093.9 | 1088.9 | 1087.2 | 1073.8 | 1062.1 |
| 37.5° | 1244.9 | 1224.8 | 1219.8 | 1189.6 | 1176.2 | 1179.5 | 1161.1 | 1147.6 |
| 40° | 1394.2 | 1379.3 | 1365.7 | 1332.2 | 1313.7 | 1290.2 | 1278.5 | 1278.5 |
| 42.5° | 1493.2 | 1483.3 | 1464.7 | 1441.2 | 1421.1 | 1380.8 | 1365.7 | 1374.1 |
| 45° | 1602.4 | 1589.0 | 1550.4 | 1526.8 | 1508.3 | 1479.8 | 1463.0 | 1446.4 |
| 47.5° | 1713.0 | 1694.7 | 1649.4 | 1619.2 | 1575.4 | 1567.0 | 1548.6 | 1525.1 |
| 50° | 1810.3 | 1803.7 | 1771.7 | 1721.5 | 1666.0 | 1652.6 | 1635.8 | 1614.0 |
| 52.5° | 1929.4 | 1889.3 | 1862.3 | 1840.6 | 1778.4 | 1734.8 | 1711.3 | 1721.5 |
| 55° | 2124.1 | 2073.8 | 2005.0 | 1936.1 | 1922.8 | 1870.8 | 1812.1 | 1844.0 |
| 57.5° | 2236.5 | 2208.0 | 2156.0 | 2047.0 | 1993.3 | 1957.9 | 1919.5 | 1890.8 |
| 60° | 2263.4 | 2211.4 | 2199.6 | 2117.4 | 2031.9 | 1957.9 | 1973.0 | 1905.9 |
| 62.5° | 2315.4 | 2244.9 | 2179.5 | 2114.1 | 2062.1 | 1961.4 | 1957.9 | 1922.8 |
| 63° | 2332.2 | 2261.7 | 2192.9 | 2114.1 | 2067.1 | 1973.0 | 1954.7 | 1936.1 |
| 65° | 2328.8 | 2268.4 | 2216.4 | 2114.1 | 2043.6 | 2006.7 | 1916.1 | 1957.9 |
| 67.5° | 2265.1 | 2214.7 | 2154.3 | 2083.9 | 1966.3 | 1937.9 | 1874.2 | 1882.6 |
| 70° | 2162.7 | 2097.3 | 2040.3 | 1974.8 | 1880.9 | 1815.3 | 1776.9 | 1745.0 |
| 72.5° | 2003.2 | 1944.5 | 1884.1 | 1823.7 | 1740.0 | 1661.0 | 1634.3 | 1598.9 |
| 75° | 1792.0 | 1734.8 | 1679.6 | 1622.4 | 1543.7 | 1473.1 | 1444.6 | 1419.4 |
| 77.5° | 1550.4 | 1501.6 | 1422.8 | 1369.1 | 1323.8 | 1248.3 | 1221.4 | 1194.6 |
| 80° | 1236.5 | 1213.1 | 1156.0 | 1085.6 | 1062.1 | 988.3 | 968.1 | 932.9 |
| 82.5° | 899.3 | 875.7 | 830.4 | 781.9 | 753.4 | 714.8 | 681.1 | 657.6 |
| 85° | 548.6 | 523.4 | 499.9 | 456.3 | 439.7 | 411.0 | 384.2 | 370.9 |
| 87.5° | 198.0 | 177.8 | 159.4 | 139.2 | 129.2 | 109.0 | 105.7 | 95.6 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)