

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: P197817

Luminaire Tested: **TT-C6-LED-E1-5WQ-PM-CG-LWR-LW-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197817
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P115528)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: TT-C6-LED-E1-5WQ-PM-CG-LWR-LW-8030
Description: TOPTIER LED AREA/SITE LUMINAIRE
WIDE DISTRIBUTION WITH CLEAR GLASS LENS AND LumaWatt WIRELESS SENSOR
Light Source: (160) 3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7474.9 lumens
Efficiency: N/A
Efficacy: 69.2 lumens/watt
Luminous Opening: Circular (Dia: 1.12' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B3 - U0 - G2

Input Watts (W): 108
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

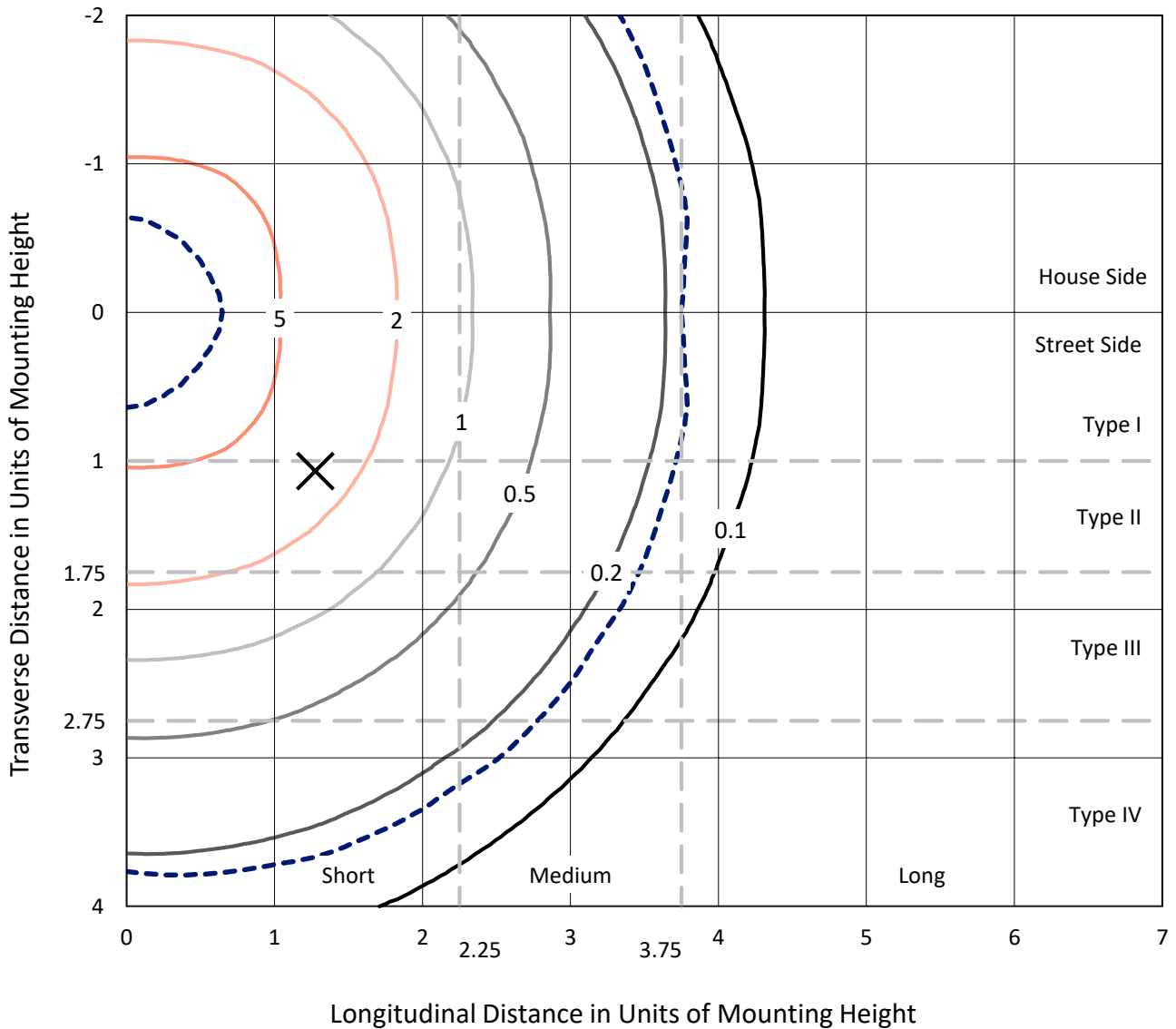


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

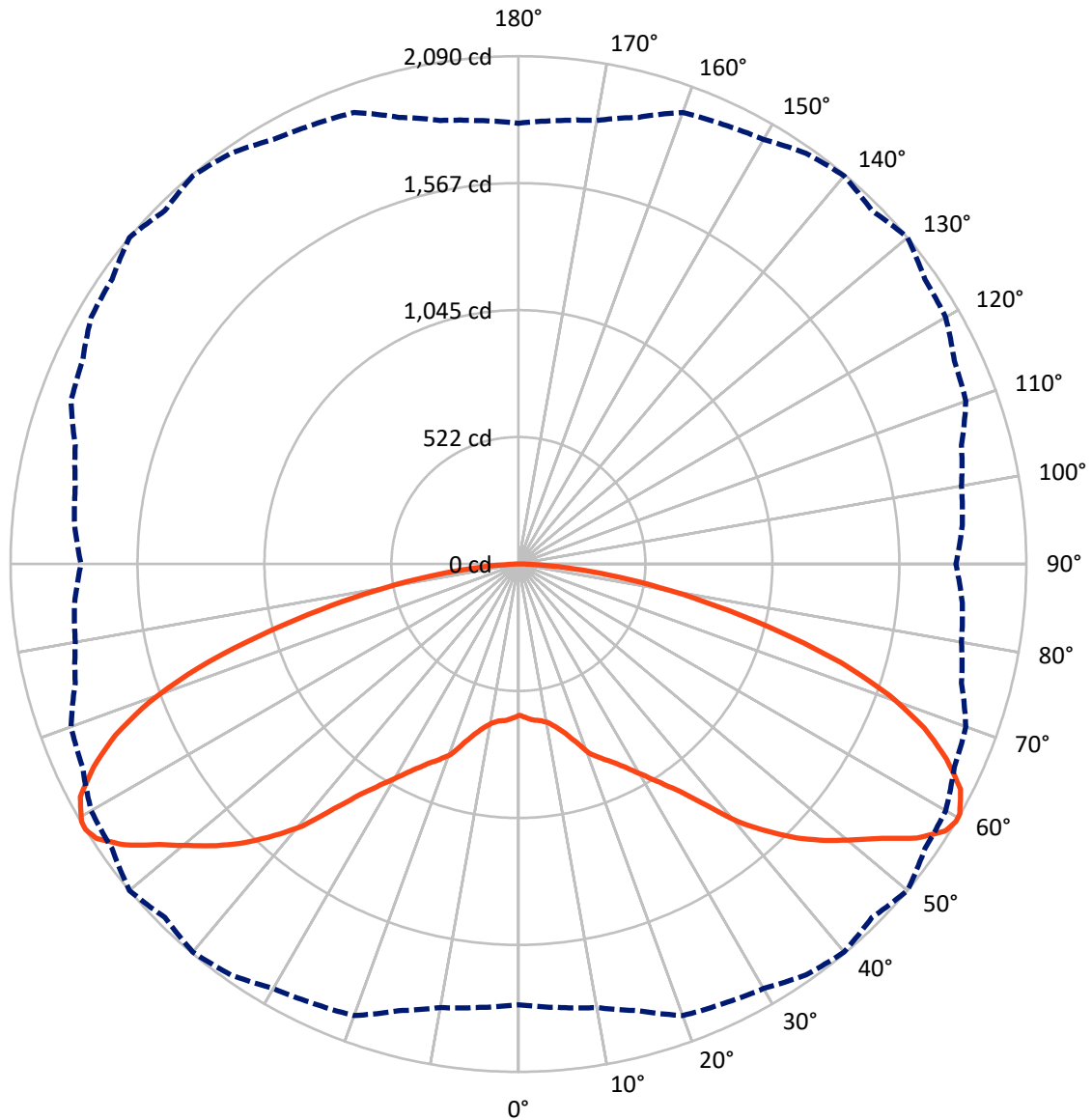


Based on 10 foot mounting height. Maximum calculated value = 6.8 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 50-Deg Lateral - - - Horizontal Cone Through 59-Deg Vertical

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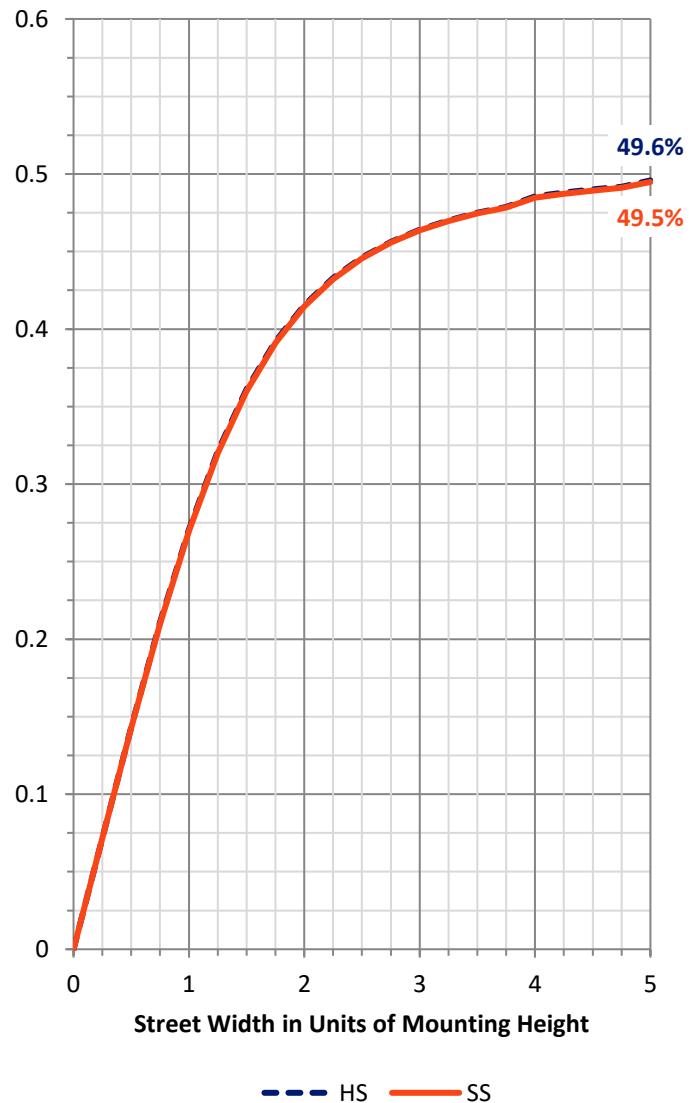
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 3737.5 | 0.0 | 3737.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 3737.5 | 0.0 | 3737.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 7474.9 | 0.0 | 7474.9 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 61.8 | 0.8 |
| 10°-20° | 208.8 | 2.8 |
| 20°-30° | 420.2 | 5.6 |
| 30°-40° | 723.0 | 9.7 |
| 40°-50° | 1193.6 | 16.0 |
| 50°-60° | 1680.7 | 22.5 |
| 60°-70° | 1798.0 | 24.1 |
| 70°-80° | 1142.1 | 15.3 |
| 80°-90° | 246.8 | 3.3 |
| 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° | 7474.9 | 100.0 |
| 0°-180° | 7474.9 | 100.0 |

Coefficient of Utilization



REPORT NUMBER: P197817

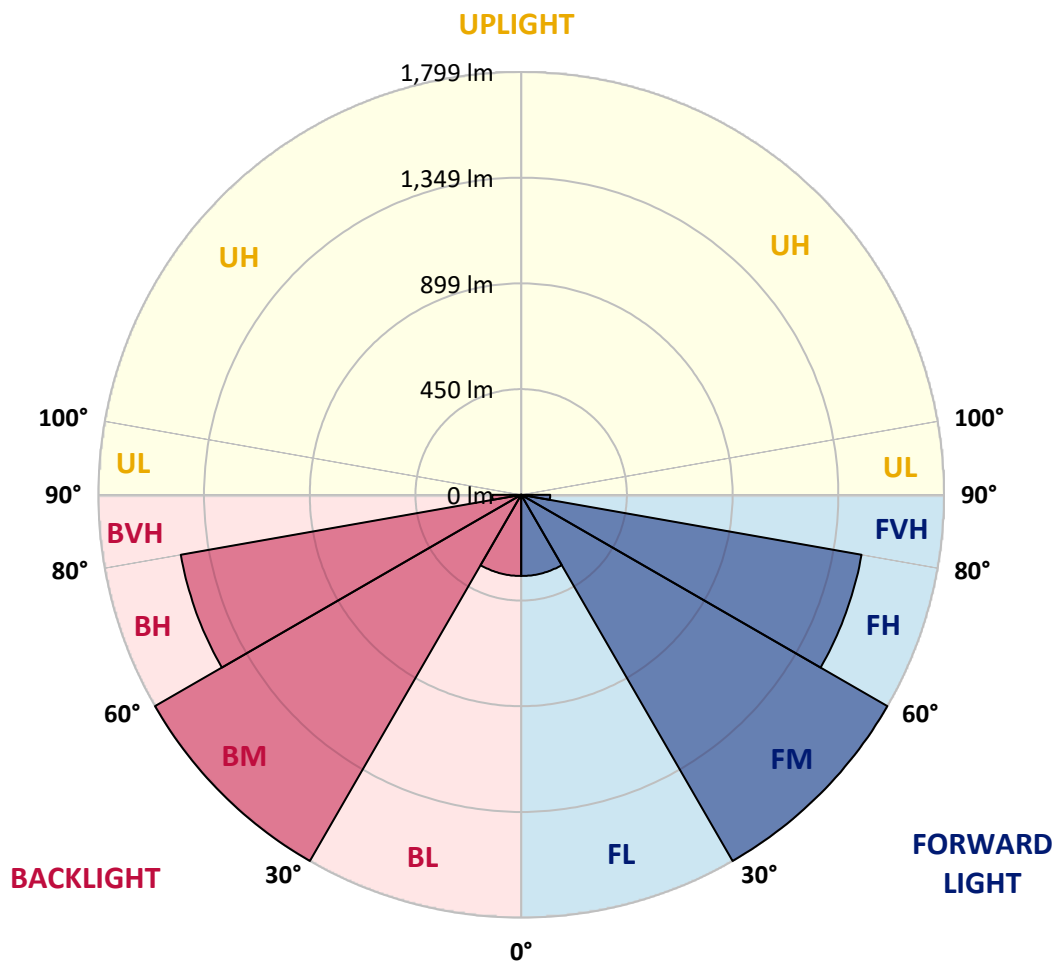
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 345.4 | 4.6 | | | |
| FM | (30°-60°) | 1798.6 | 24.1 | | | |
| FH | (60°-80°) | 1470.1 | 19.7 | | | G1/1800 |
| FVH | (80°-90°) | 123.4 | 1.7 | | | G2/225 |
| BL | (0°-30°) | 345.4 | 4.6 | B1/500 | | |
| BM | (30°-60°) | 1798.6 | 24.1 | B2/2500 | | |
| BH | (60°-80°) | 1470.1 | 19.7 | B3/2500 | | G1/1800 |
| BVH | (80°-90°) | 123.4 | 1.7 | | | G2/225 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 622.1 | 622.1 | 622.1 | 622.1 | 622.1 | 622.1 | 622.1 | 622.1 | 622.1 | 622.1 | 622.1 |
| 2.5° | 635.3 | 633.7 | 633.7 | 633.7 | 633.7 | 633.7 | 633.7 | 633.7 | 633.7 | 633.7 | 633.7 |
| 5° | 638.6 | 638.6 | 640.3 | 640.3 | 642.0 | 642.0 | 642.0 | 643.6 | 643.6 | 643.6 | 645.3 |
| 7.5° | 645.3 | 643.6 | 645.3 | 645.3 | 645.3 | 646.9 | 646.9 | 646.9 | 648.6 | 650.2 | 650.2 |
| 10° | 666.8 | 665.1 | 666.8 | 666.8 | 666.8 | 663.5 | 663.5 | 665.1 | 663.5 | 663.5 | 663.5 |
| 12.5° | 691.6 | 691.6 | 693.2 | 694.9 | 694.9 | 693.2 | 691.6 | 689.9 | 688.3 | 688.3 | 688.3 |
| 15° | 714.8 | 716.4 | 718.1 | 721.4 | 723.0 | 723.0 | 724.7 | 726.3 | 724.7 | 724.7 | 723.0 |
| 17.5° | 751.2 | 754.5 | 756.1 | 757.8 | 757.8 | 757.8 | 761.1 | 766.0 | 771.0 | 774.3 | 771.0 |
| 20° | 812.4 | 814.0 | 817.3 | 817.3 | 815.7 | 817.3 | 820.6 | 822.3 | 825.6 | 828.9 | 830.6 |
| 22.5° | 853.7 | 857.0 | 862.0 | 862.0 | 860.4 | 862.0 | 865.3 | 865.3 | 862.0 | 863.7 | 867.0 |
| 25° | 888.5 | 890.1 | 893.4 | 895.1 | 896.8 | 905.0 | 911.6 | 910.0 | 903.4 | 905.0 | 903.4 |
| 27.5° | 929.8 | 933.2 | 936.5 | 936.5 | 936.5 | 941.4 | 948.0 | 951.4 | 956.3 | 954.7 | 949.7 |
| 30° | 984.4 | 989.4 | 991.1 | 989.4 | 992.7 | 997.7 | 996.0 | 999.3 | 1007.6 | 1015.9 | 1006.0 |
| 32.5° | 1027.5 | 1032.4 | 1037.4 | 1044.0 | 1055.6 | 1062.2 | 1058.9 | 1060.6 | 1065.5 | 1072.1 | 1072.1 |
| 35° | 1092.0 | 1100.3 | 1103.6 | 1105.2 | 1116.8 | 1130.0 | 1140.0 | 1148.2 | 1146.6 | 1141.6 | 1149.9 |
| 37.5° | 1189.6 | 1197.9 | 1201.2 | 1207.8 | 1222.7 | 1226.0 | 1240.9 | 1260.8 | 1267.4 | 1260.8 | 1260.8 |
| 40° | 1293.8 | 1302.1 | 1318.7 | 1333.6 | 1356.7 | 1361.7 | 1379.9 | 1388.2 | 1404.7 | 1406.4 | 1396.4 |
| 42.5° | 1379.9 | 1389.8 | 1393.1 | 1417.9 | 1449.4 | 1472.5 | 1492.4 | 1494.0 | 1505.6 | 1515.6 | 1504.0 |
| 45° | 1472.5 | 1480.8 | 1485.8 | 1508.9 | 1525.5 | 1553.6 | 1585.0 | 1598.3 | 1603.2 | 1601.6 | 1608.2 |
| 47.5° | 1558.6 | 1570.2 | 1575.1 | 1593.3 | 1613.2 | 1636.3 | 1654.5 | 1692.6 | 1700.9 | 1684.3 | 1699.2 |
| 50° | 1611.5 | 1624.8 | 1636.3 | 1676.0 | 1710.8 | 1729.0 | 1743.9 | 1775.3 | 1793.5 | 1778.6 | 1783.6 |
| 52.5° | 1694.2 | 1697.6 | 1707.5 | 1724.0 | 1775.3 | 1836.5 | 1853.1 | 1863.0 | 1889.5 | 1897.7 | 1874.6 |
| 55° | 1806.7 | 1818.3 | 1826.6 | 1848.1 | 1869.6 | 1912.6 | 1985.4 | 1998.7 | 1992.1 | 2031.8 | 1990.4 |
| 57.5° | 1823.3 | 1844.8 | 1869.6 | 1917.6 | 1960.6 | 1973.9 | 2016.9 | 2068.2 | 2063.2 | 2068.2 | 2071.5 |
| 59° | 1813.4 | 1831.6 | 1853.1 | 1902.7 | 1977.2 | 1995.4 | 2016.9 | 2063.2 | 2084.7 | 2056.6 | 2089.7 |
| 60° | 1816.7 | 1829.9 | 1841.5 | 1881.2 | 1960.6 | 2002.0 | 2015.2 | 2043.3 | 2084.7 | 2046.7 | 2086.4 |
| 62.5° | 1803.4 | 1820.0 | 1833.2 | 1856.4 | 1894.4 | 1952.3 | 2003.6 | 1990.4 | 2050.0 | 2020.2 | 2041.7 |
| 65° | 1732.3 | 1750.5 | 1777.0 | 1810.1 | 1854.7 | 1871.3 | 1922.6 | 1950.7 | 1937.5 | 1970.5 | 1935.8 |
| 67.5° | 1613.2 | 1629.7 | 1646.3 | 1686.0 | 1735.6 | 1757.1 | 1770.4 | 1821.6 | 1803.4 | 1841.5 | 1801.8 |
| 70° | 1454.3 | 1472.5 | 1495.7 | 1517.2 | 1561.9 | 1580.1 | 1595.0 | 1618.1 | 1624.8 | 1624.8 | 1621.4 |
| 72.5° | 1264.1 | 1279.0 | 1293.8 | 1315.4 | 1341.8 | 1358.4 | 1365.0 | 1370.0 | 1396.4 | 1386.5 | 1388.2 |
| 75° | 1049.0 | 1063.9 | 1070.5 | 1078.8 | 1097.0 | 1095.3 | 1101.9 | 1098.6 | 1115.2 | 1108.5 | 1105.2 |
| 77.5° | 820.6 | 825.6 | 843.8 | 843.8 | 838.8 | 847.1 | 838.8 | 833.9 | 830.6 | 833.9 | 833.9 |
| 80° | 569.2 | 584.1 | 595.6 | 603.9 | 607.2 | 603.9 | 605.6 | 598.9 | 598.9 | 594.0 | 595.6 |
| 82.5° | 350.8 | 365.7 | 370.6 | 378.9 | 380.5 | 380.5 | 380.5 | 375.6 | 377.2 | 372.3 | 375.6 |
| 85° | 172.1 | 172.1 | 178.7 | 187.0 | 188.6 | 191.9 | 191.9 | 191.9 | 191.9 | 191.9 | 193.6 |
| 87.5° | 43.0 | 43.0 | 46.3 | 51.3 | 51.3 | 52.9 | 54.6 | 56.3 | 56.3 | 57.9 | 57.9 |
| 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° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 622.1 | 622.1 | 622.1 | 622.1 | 622.1 | 622.1 | 622.1 | 622.1 |
| 2.5° | 633.7 | 633.7 | 633.7 | 633.7 | 633.7 | 633.7 | 633.7 | 633.7 |
| 5° | 645.3 | 643.6 | 643.6 | 642.0 | 642.0 | 640.3 | 640.3 | 640.3 |
| 7.5° | 651.9 | 651.9 | 650.2 | 648.6 | 646.9 | 646.9 | 648.6 | 648.6 |
| 10° | 665.1 | 668.4 | 670.1 | 670.1 | 668.4 | 668.4 | 666.8 | 666.8 |
| 12.5° | 686.6 | 689.9 | 693.2 | 696.6 | 696.6 | 694.9 | 691.6 | 689.9 |
| 15° | 719.7 | 719.7 | 721.4 | 723.0 | 723.0 | 719.7 | 713.1 | 713.1 |
| 17.5° | 764.4 | 761.1 | 756.1 | 757.8 | 759.4 | 757.8 | 751.2 | 754.5 |
| 20° | 825.6 | 819.0 | 815.7 | 812.4 | 819.0 | 819.0 | 809.1 | 809.1 |
| 22.5° | 870.3 | 865.3 | 857.0 | 855.4 | 860.4 | 863.7 | 855.4 | 850.4 |
| 25° | 908.3 | 910.0 | 900.1 | 895.1 | 896.8 | 898.4 | 886.8 | 888.5 |
| 27.5° | 949.7 | 951.4 | 946.4 | 938.1 | 934.8 | 939.8 | 931.5 | 928.2 |
| 30° | 999.3 | 997.7 | 1001.0 | 991.1 | 982.8 | 987.8 | 987.8 | 979.5 |
| 32.5° | 1063.9 | 1058.9 | 1060.6 | 1049.0 | 1039.0 | 1037.4 | 1030.8 | 1020.8 |
| 35° | 1151.6 | 1138.3 | 1128.4 | 1121.8 | 1103.6 | 1100.3 | 1100.3 | 1088.7 |
| 37.5° | 1265.7 | 1245.9 | 1227.7 | 1227.7 | 1199.5 | 1191.3 | 1196.2 | 1181.3 |
| 40° | 1393.1 | 1386.5 | 1358.4 | 1353.4 | 1323.6 | 1303.8 | 1303.8 | 1285.6 |
| 42.5° | 1485.8 | 1494.0 | 1461.0 | 1441.1 | 1421.2 | 1389.8 | 1393.1 | 1370.0 |
| 45° | 1586.7 | 1581.7 | 1553.6 | 1518.9 | 1512.2 | 1479.2 | 1482.5 | 1459.3 |
| 47.5° | 1682.7 | 1652.9 | 1639.6 | 1604.9 | 1590.0 | 1552.0 | 1563.5 | 1545.3 |
| 50° | 1775.3 | 1742.2 | 1729.0 | 1687.6 | 1667.8 | 1626.4 | 1628.1 | 1595.0 |
| 52.5° | 1871.3 | 1841.5 | 1821.6 | 1768.7 | 1734.0 | 1704.2 | 1697.6 | 1682.7 |
| 55° | 1995.4 | 1963.9 | 1915.9 | 1866.3 | 1839.8 | 1796.8 | 1801.8 | 1778.6 |
| 57.5° | 2043.3 | 2023.5 | 1972.2 | 1942.4 | 1892.8 | 1849.8 | 1839.8 | 1798.5 |
| 59° | 2041.7 | 2030.1 | 1978.8 | 1959.0 | 1887.8 | 1851.4 | 1833.2 | 1800.1 |
| 60° | 2030.1 | 2026.8 | 1975.5 | 1950.7 | 1876.2 | 1843.1 | 1826.6 | 1805.1 |
| 62.5° | 1995.4 | 1993.7 | 1935.8 | 1906.0 | 1844.8 | 1818.3 | 1808.4 | 1780.3 |
| 65° | 1944.1 | 1915.9 | 1871.3 | 1851.4 | 1788.5 | 1768.7 | 1740.6 | 1712.4 |
| 67.5° | 1821.6 | 1758.8 | 1752.2 | 1727.3 | 1672.7 | 1647.9 | 1629.7 | 1603.2 |
| 70° | 1619.8 | 1578.4 | 1578.4 | 1547.0 | 1508.9 | 1497.4 | 1472.5 | 1442.8 |
| 72.5° | 1368.3 | 1358.4 | 1363.3 | 1326.9 | 1308.7 | 1302.1 | 1280.6 | 1254.1 |
| 75° | 1093.6 | 1095.3 | 1090.3 | 1082.1 | 1077.1 | 1078.8 | 1055.6 | 1044.0 |
| 77.5° | 828.9 | 843.8 | 840.5 | 828.9 | 840.5 | 838.8 | 819.0 | 814.0 |
| 80° | 590.7 | 597.3 | 600.6 | 594.0 | 600.6 | 595.6 | 579.1 | 577.4 |
| 82.5° | 372.3 | 373.9 | 377.2 | 370.6 | 372.3 | 370.6 | 359.0 | 359.0 |
| 85° | 190.3 | 196.9 | 188.6 | 182.0 | 182.0 | 175.4 | 172.1 | 173.7 |
| 87.5° | 56.3 | 59.6 | 52.9 | 52.9 | 49.6 | 46.3 | 44.7 | 44.7 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)