

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: P197840

Luminaire Tested: **TT-C5-LED-E1-5WQ-PM-CG-MS/DIM-7060**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197840
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P115513)
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-CG-MS/DIM-7060
Description: TOPTIER LED AREA/SITE LUMINAIRE
WIDE DISTRIBUTION WITH CLEAR GLASS LENS AND DIMMING OCCUPANCY SENSOR
Light Source: (160) 5700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8158.2 lumens
Efficiency: N/A
Efficacy: 106.0 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): 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

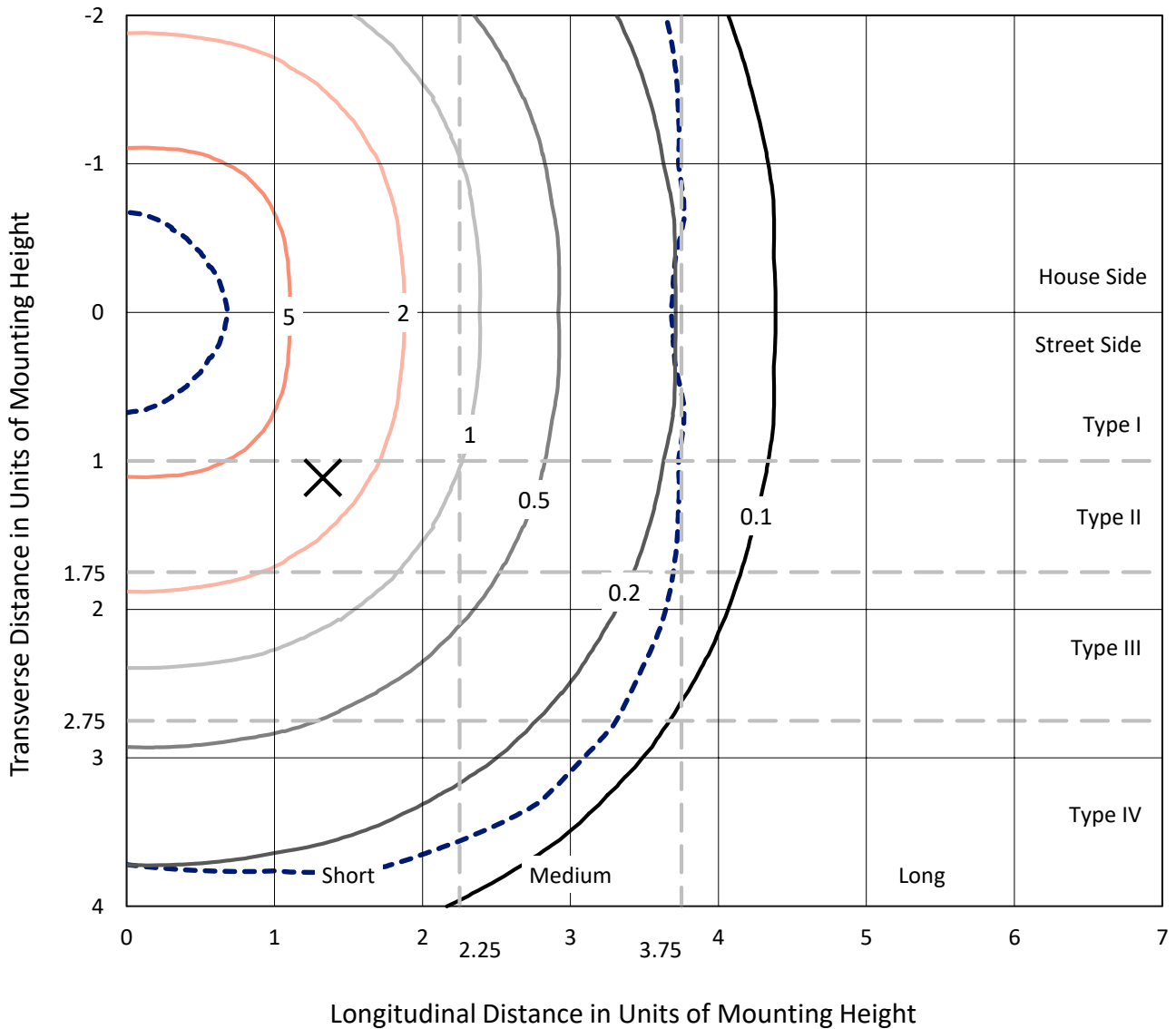


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Iso-Footcandle Lines of Horizontal Illumination

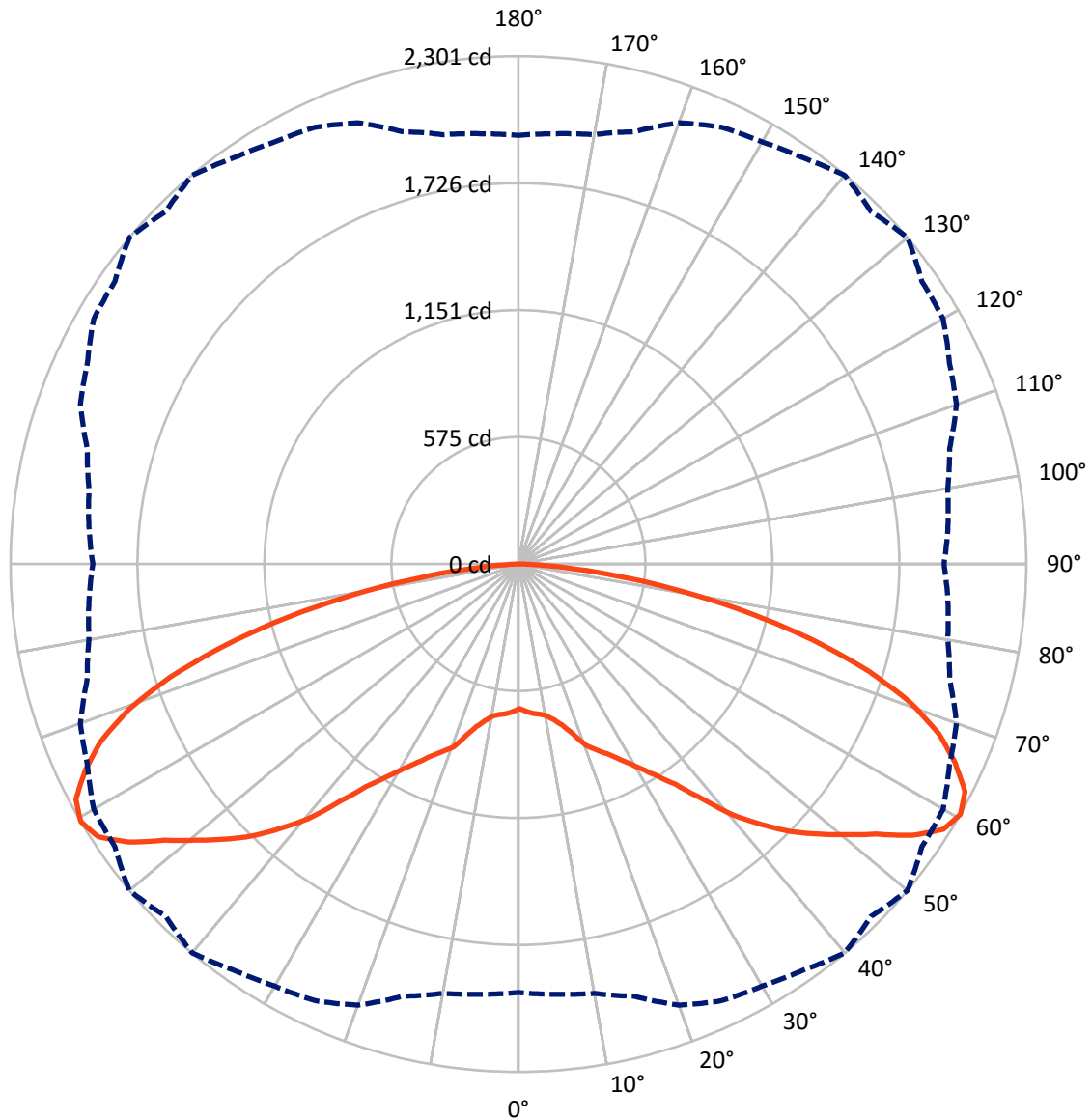
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.2 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 50-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

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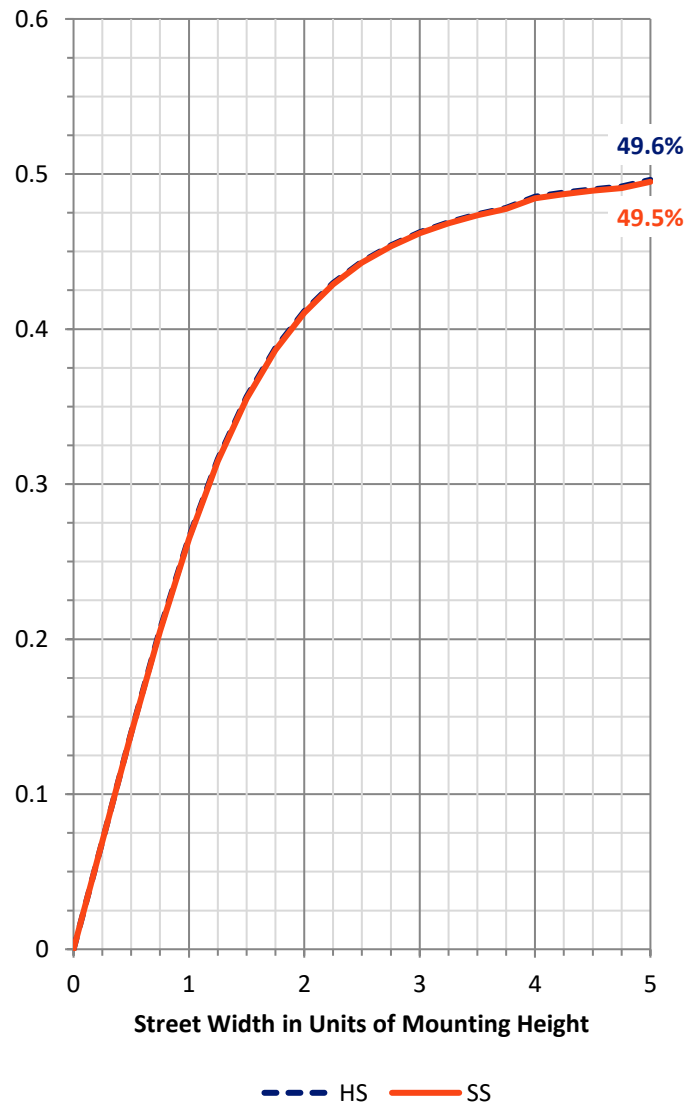
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 4079.1 | 0.0 | 4079.1 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 4079.1 | 0.0 | 4079.1 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 8158.2 | 0.0 | 8158.2 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 65.2 | 0.8 |
| 10°-20° | 220.1 | 2.7 |
| 20°-30° | 444.4 | 5.4 |
| 30°-40° | 768.1 | 9.4 |
| 40°-50° | 1275.7 | 15.6 |
| 50°-60° | 1812.9 | 22.2 |
| 60°-70° | 1980.3 | 24.3 |
| 70°-80° | 1315.6 | 16.1 |
| 80°-90° | 276.1 | 3.4 |
| 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° | 8158.2 | 100.0 |
| 0°-180° | 8158.2 | 100.0 |

Coefficient of Utilization



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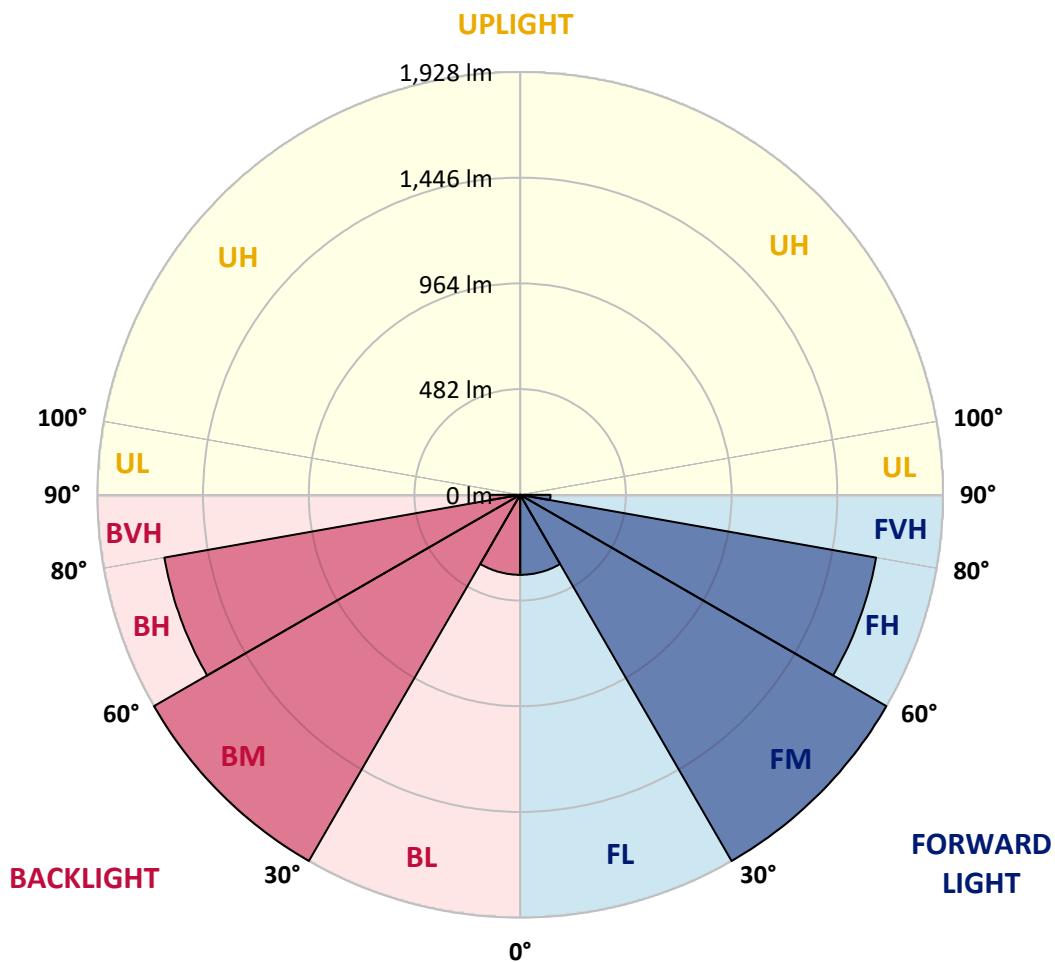
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 364.8 | 4.5 | | | |
| FM | (30°-60°) | 1928.3 | 23.6 | | | |
| FH | (60°-80°) | 1647.9 | 20.2 | | | G1/1800 |
| FVH | (80°-90°) | 138.1 | 1.7 | | | G2/225 |
| BL | (0°-30°) | 364.8 | 4.5 | B1/500 | | |
| BM | (30°-60°) | 1928.3 | 23.6 | B2/2500 | | |
| BH | (60°-80°) | 1647.9 | 20.2 | B3/2500 | | G1/1800 |
| BVH | (80°-90°) | 138.1 | 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° | 654.6 | 654.6 | 654.6 | 654.6 | 654.6 | 654.6 | 654.6 | 654.6 | 654.6 | 654.6 | 654.6 |
| 2.5° | 668.1 | 668.1 | 668.1 | 668.1 | 668.1 | 668.1 | 668.1 | 668.1 | 666.4 | 668.1 | 668.1 |
| 5° | 674.8 | 674.8 | 674.8 | 676.5 | 676.5 | 676.5 | 678.2 | 678.2 | 678.2 | 679.9 | 679.9 |
| 7.5° | 679.9 | 679.9 | 679.9 | 679.9 | 681.6 | 681.6 | 681.6 | 683.3 | 683.3 | 684.9 | 686.6 |
| 10° | 701.8 | 701.8 | 701.8 | 701.8 | 701.8 | 700.1 | 700.1 | 700.1 | 698.4 | 698.4 | 698.4 |
| 12.5° | 728.8 | 730.5 | 732.2 | 732.2 | 732.2 | 732.2 | 728.8 | 725.4 | 725.4 | 725.4 | 725.4 |
| 15° | 754.1 | 755.8 | 757.5 | 760.9 | 762.5 | 764.2 | 764.2 | 764.2 | 764.2 | 764.2 | 760.9 |
| 17.5° | 794.6 | 796.3 | 796.3 | 798.0 | 799.7 | 799.7 | 801.4 | 806.4 | 813.2 | 816.5 | 813.2 |
| 20° | 857.0 | 860.4 | 862.1 | 862.1 | 863.8 | 862.1 | 865.5 | 868.8 | 873.9 | 877.3 | 879.0 |
| 22.5° | 902.6 | 905.9 | 911.0 | 911.0 | 911.0 | 909.3 | 912.7 | 914.4 | 912.7 | 912.7 | 916.1 |
| 25° | 938.0 | 941.4 | 944.8 | 946.4 | 949.8 | 956.6 | 963.3 | 963.3 | 958.2 | 956.6 | 956.6 |
| 27.5° | 983.6 | 988.6 | 988.6 | 990.3 | 993.7 | 998.7 | 1005.5 | 1010.5 | 1013.9 | 1010.5 | 1008.9 |
| 30° | 1042.6 | 1046.0 | 1047.7 | 1046.0 | 1052.7 | 1054.4 | 1056.1 | 1059.5 | 1069.6 | 1076.3 | 1067.9 |
| 32.5° | 1088.2 | 1093.2 | 1098.3 | 1105.0 | 1120.2 | 1127.0 | 1125.3 | 1128.6 | 1132.0 | 1138.8 | 1140.4 |
| 35° | 1157.3 | 1165.8 | 1167.4 | 1172.5 | 1191.1 | 1201.2 | 1216.4 | 1224.8 | 1223.1 | 1214.7 | 1226.5 |
| 37.5° | 1261.9 | 1272.0 | 1273.7 | 1282.2 | 1300.7 | 1309.2 | 1326.0 | 1348.0 | 1353.0 | 1341.2 | 1348.0 |
| 40° | 1371.6 | 1385.1 | 1396.9 | 1415.4 | 1445.8 | 1455.9 | 1476.2 | 1488.0 | 1504.9 | 1506.5 | 1494.7 |
| 42.5° | 1464.4 | 1479.5 | 1479.5 | 1511.6 | 1545.3 | 1574.0 | 1599.3 | 1601.0 | 1612.8 | 1629.7 | 1612.8 |
| 45° | 1563.9 | 1575.7 | 1580.8 | 1607.8 | 1628.0 | 1665.1 | 1702.2 | 1715.7 | 1720.8 | 1724.2 | 1729.2 |
| 47.5° | 1655.0 | 1670.2 | 1675.2 | 1698.9 | 1720.8 | 1754.5 | 1778.2 | 1818.6 | 1828.8 | 1815.3 | 1828.8 |
| 50° | 1712.4 | 1729.2 | 1742.7 | 1791.7 | 1830.5 | 1859.1 | 1879.4 | 1914.8 | 1935.1 | 1924.9 | 1926.6 |
| 52.5° | 1801.8 | 1806.8 | 1820.3 | 1847.3 | 1903.0 | 1980.6 | 2004.2 | 2016.0 | 2044.7 | 2059.9 | 2032.9 |
| 55° | 1923.2 | 1940.1 | 1950.2 | 1982.3 | 2011.0 | 2066.6 | 2156.1 | 2174.6 | 2167.9 | 2215.1 | 2169.6 |
| 57.5° | 1943.5 | 1968.8 | 2000.8 | 2061.6 | 2112.2 | 2142.6 | 2198.2 | 2262.3 | 2260.7 | 2267.4 | 2269.1 |
| 60° | 1941.8 | 1957.0 | 1975.5 | 2027.8 | 2127.4 | 2183.0 | 2208.4 | 2247.2 | 2299.5 | 2259.0 | 2301.1 |
| 62.5° | 1930.0 | 1951.9 | 1972.2 | 2009.3 | 2063.3 | 2142.6 | 2213.4 | 2208.4 | 2279.2 | 2247.2 | 2270.8 |
| 65° | 1859.1 | 1879.4 | 1916.5 | 1965.4 | 2031.2 | 2068.3 | 2139.2 | 2184.7 | 2174.6 | 2218.5 | 2174.6 |
| 67.5° | 1736.0 | 1754.5 | 1784.9 | 1842.3 | 1911.4 | 1965.4 | 1990.7 | 2066.6 | 2058.2 | 2107.1 | 2054.8 |
| 70° | 1567.3 | 1590.9 | 1626.3 | 1666.8 | 1734.3 | 1791.7 | 1820.3 | 1869.3 | 1892.9 | 1889.5 | 1886.1 |
| 72.5° | 1364.8 | 1385.1 | 1413.8 | 1457.6 | 1515.0 | 1570.6 | 1592.6 | 1629.7 | 1668.5 | 1656.7 | 1660.1 |
| 75° | 1138.8 | 1155.6 | 1177.6 | 1204.6 | 1258.5 | 1302.4 | 1327.7 | 1361.5 | 1391.8 | 1383.4 | 1380.0 |
| 77.5° | 877.3 | 897.5 | 921.1 | 946.4 | 968.4 | 1008.9 | 1027.4 | 1051.0 | 1076.3 | 1071.3 | 1073.0 |
| 80° | 614.1 | 631.0 | 646.1 | 673.1 | 690.0 | 703.5 | 723.7 | 733.9 | 752.4 | 749.1 | 754.1 |
| 82.5° | 374.5 | 386.3 | 396.5 | 410.0 | 425.1 | 421.8 | 423.5 | 435.3 | 450.4 | 442.0 | 455.5 |
| 85° | 183.9 | 182.2 | 192.3 | 195.7 | 205.8 | 204.1 | 202.4 | 209.2 | 217.6 | 212.6 | 212.6 |
| 87.5° | 47.2 | 47.2 | 47.2 | 48.9 | 54.0 | 59.0 | 54.0 | 57.4 | 60.7 | 62.4 | 60.7 |
| 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° | 654.6 | 654.6 | 654.6 | 654.6 | 654.6 | 654.6 | 654.6 | 654.6 |
| 2.5° | 666.4 | 668.1 | 666.4 | 668.1 | 668.1 | 668.1 | 668.1 | 666.4 |
| 5° | 679.9 | 678.2 | 678.2 | 678.2 | 676.5 | 674.8 | 674.8 | 674.8 |
| 7.5° | 686.6 | 686.6 | 684.9 | 683.3 | 681.6 | 681.6 | 684.9 | 683.3 |
| 10° | 701.8 | 703.5 | 705.2 | 706.9 | 705.2 | 703.5 | 703.5 | 701.8 |
| 12.5° | 725.4 | 727.1 | 730.5 | 733.9 | 733.9 | 732.2 | 728.8 | 727.1 |
| 15° | 759.2 | 757.5 | 759.2 | 762.5 | 762.5 | 757.5 | 752.4 | 750.7 |
| 17.5° | 806.4 | 801.4 | 798.0 | 798.0 | 801.4 | 796.3 | 791.2 | 792.9 |
| 20° | 872.2 | 863.8 | 862.1 | 857.0 | 862.1 | 862.1 | 853.6 | 853.6 |
| 22.5° | 919.4 | 912.7 | 905.9 | 900.9 | 907.6 | 911.0 | 902.6 | 895.8 |
| 25° | 963.3 | 961.6 | 951.5 | 946.4 | 946.4 | 948.1 | 936.3 | 938.0 |
| 27.5° | 1007.2 | 1007.2 | 1000.4 | 992.0 | 988.6 | 993.7 | 983.6 | 980.2 |
| 30° | 1059.5 | 1054.4 | 1059.5 | 1047.7 | 1039.2 | 1044.3 | 1044.3 | 1037.5 |
| 32.5° | 1127.0 | 1120.2 | 1125.3 | 1111.8 | 1100.0 | 1098.3 | 1089.8 | 1079.7 |
| 35° | 1223.1 | 1206.2 | 1197.8 | 1191.1 | 1167.4 | 1165.8 | 1164.1 | 1155.6 |
| 37.5° | 1344.6 | 1322.7 | 1304.1 | 1305.8 | 1272.0 | 1263.6 | 1263.6 | 1251.8 |
| 40° | 1489.7 | 1476.2 | 1449.2 | 1439.1 | 1405.3 | 1383.4 | 1381.7 | 1359.8 |
| 42.5° | 1590.9 | 1596.0 | 1560.5 | 1536.9 | 1509.9 | 1476.2 | 1477.9 | 1454.2 |
| 45° | 1702.2 | 1692.1 | 1660.1 | 1621.3 | 1609.5 | 1572.3 | 1574.0 | 1550.4 |
| 47.5° | 1808.5 | 1771.4 | 1754.5 | 1712.4 | 1693.8 | 1651.6 | 1656.7 | 1639.8 |
| 50° | 1913.1 | 1872.6 | 1854.1 | 1808.5 | 1778.2 | 1734.3 | 1729.2 | 1693.8 |
| 52.5° | 2024.5 | 1985.7 | 1960.4 | 1894.6 | 1854.1 | 1820.3 | 1806.8 | 1790.0 |
| 55° | 2169.6 | 2130.7 | 2068.3 | 2004.2 | 1973.9 | 1921.6 | 1916.5 | 1894.6 |
| 57.5° | 2233.7 | 2203.3 | 2137.5 | 2095.3 | 2034.6 | 1980.6 | 1960.4 | 1918.2 |
| 60° | 2232.0 | 2221.9 | 2154.4 | 2112.2 | 2022.8 | 1975.5 | 1953.6 | 1928.3 |
| 62.5° | 2213.4 | 2201.6 | 2122.3 | 2075.1 | 1994.1 | 1953.6 | 1936.7 | 1904.7 |
| 65° | 2176.3 | 2135.8 | 2065.0 | 2026.2 | 1938.4 | 1903.0 | 1865.9 | 1837.2 |
| 67.5° | 2071.7 | 1987.4 | 1955.3 | 1906.4 | 1820.3 | 1783.2 | 1747.8 | 1719.1 |
| 70° | 1876.0 | 1813.6 | 1784.9 | 1724.2 | 1649.9 | 1626.3 | 1582.5 | 1550.4 |
| 72.5° | 1626.3 | 1592.6 | 1562.2 | 1496.4 | 1444.1 | 1420.5 | 1376.6 | 1349.6 |
| 75° | 1349.6 | 1329.4 | 1287.2 | 1238.3 | 1191.1 | 1182.6 | 1135.4 | 1125.3 |
| 77.5° | 1047.7 | 1029.1 | 995.4 | 959.9 | 938.0 | 921.1 | 879.0 | 875.6 |
| 80° | 733.9 | 722.1 | 695.1 | 679.9 | 664.7 | 649.5 | 620.8 | 617.5 |
| 82.5° | 433.6 | 425.1 | 426.8 | 411.6 | 403.2 | 399.8 | 377.9 | 379.6 |
| 85° | 209.2 | 202.4 | 202.4 | 202.4 | 194.0 | 192.3 | 178.8 | 180.5 |
| 87.5° | 60.7 | 54.0 | 54.0 | 54.0 | 50.6 | 50.6 | 43.9 | 45.6 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)