

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: P177290

Luminaire Tested: **VAL-E02-LED-E-U-SQ-7060**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P177290
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33698)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VAL-E02-LED-E-U-SQ-7060
Description: VALET TUNNEL LED LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE V SQUARE
Light Source: (42) 5700K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6291.2 lumens
Efficiency: N/A
Efficacy: 120.8 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 1' x H: 0.1')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G1

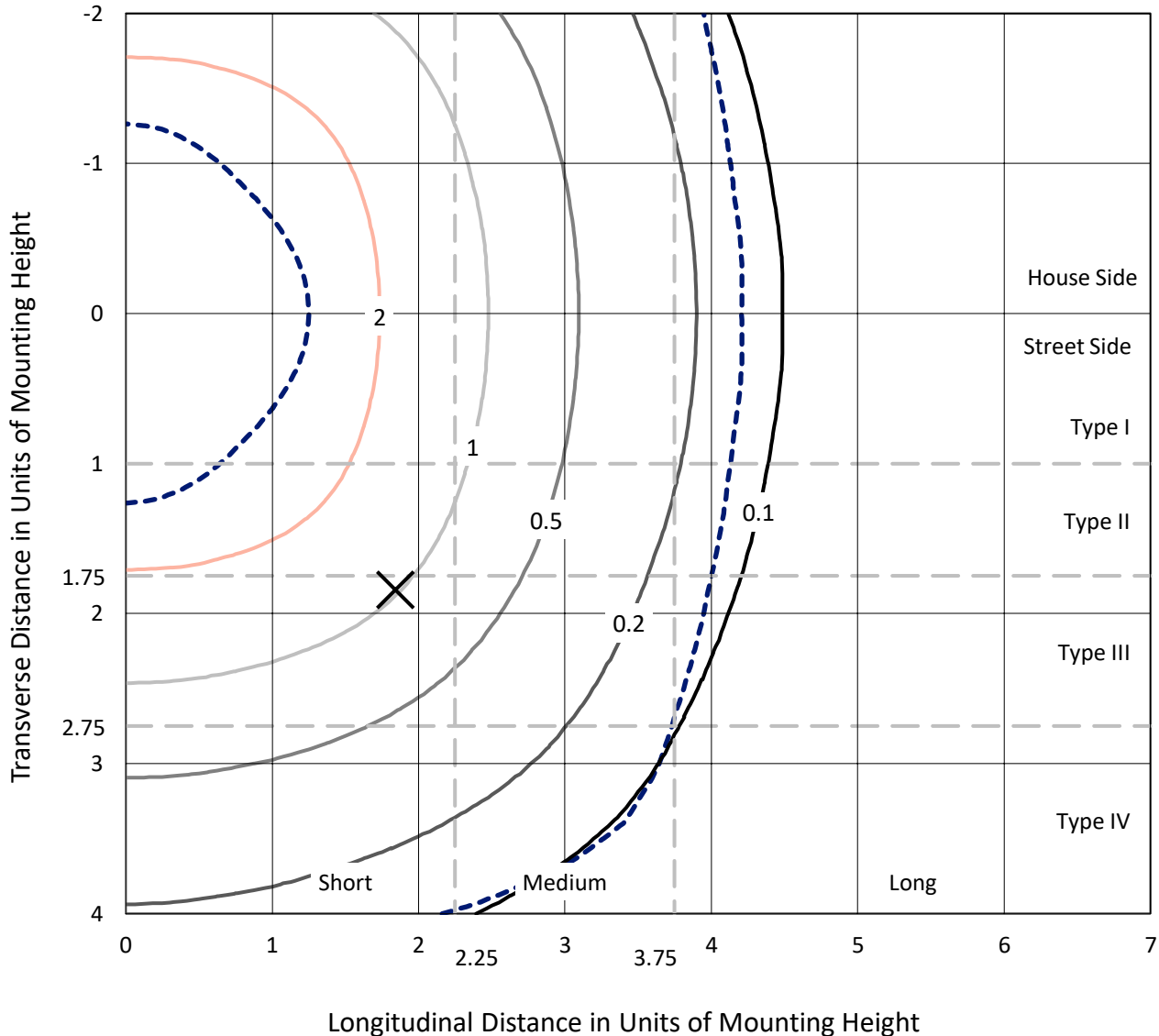
Input Watts (W): 52.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

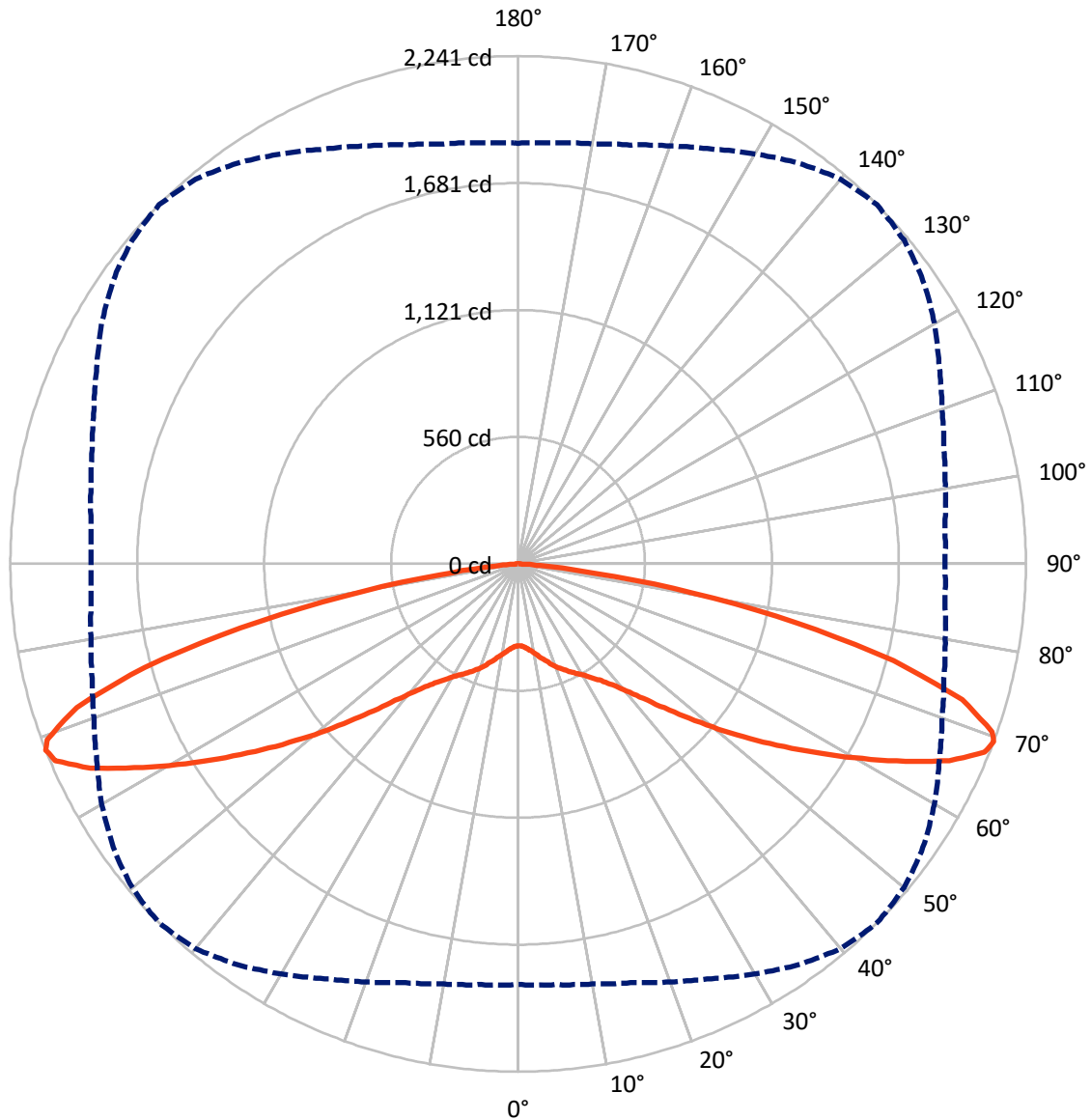
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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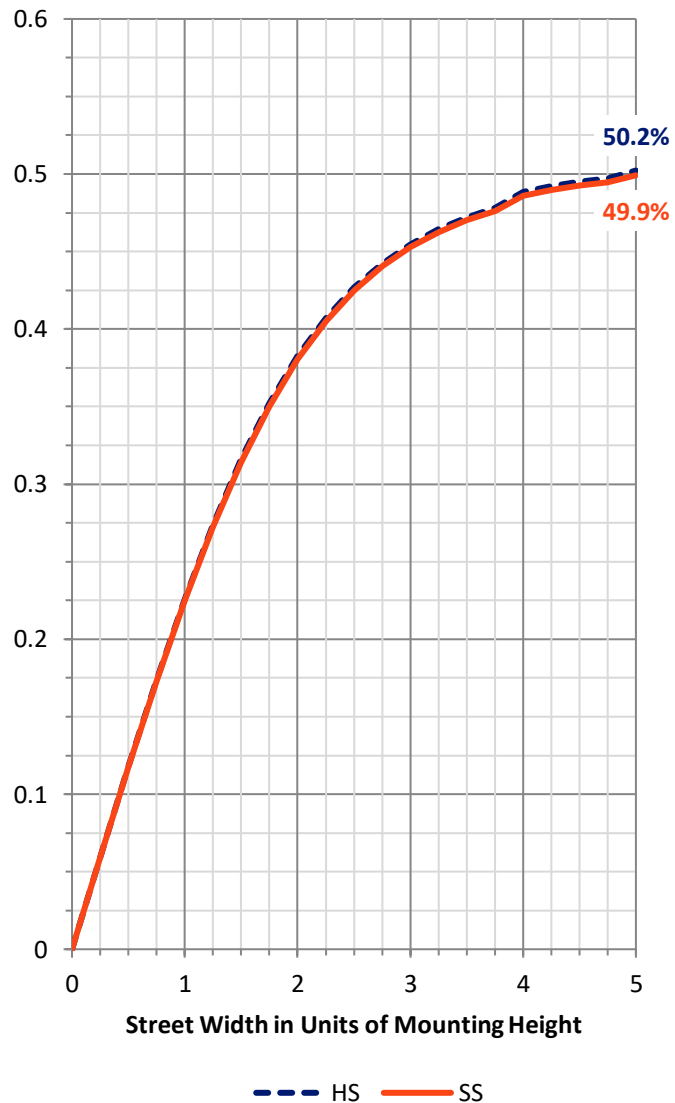
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 3145.6 | 0.0 | 3145.6 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 3145.6 | 0.0 | 3145.6 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 6291.2 | 0.0 | 6291.2 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 36.5 | 0.6 |
| 10°-20° | 125.7 | 2.0 |
| 20°-30° | 242.3 | 3.9 |
| 30°-40° | 397.1 | 6.3 |
| 40°-50° | 690.5 | 11.0 |
| 50°-60° | 1226.6 | 19.5 |
| 60°-70° | 1904.3 | 30.3 |
| 70°-80° | 1517.3 | 24.1 |
| 80°-90° | 150.9 | 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° | 6291.2 | 100.0 |
| 0°-180° | 6291.2 | 100.0 |

Coefficient of Utilization



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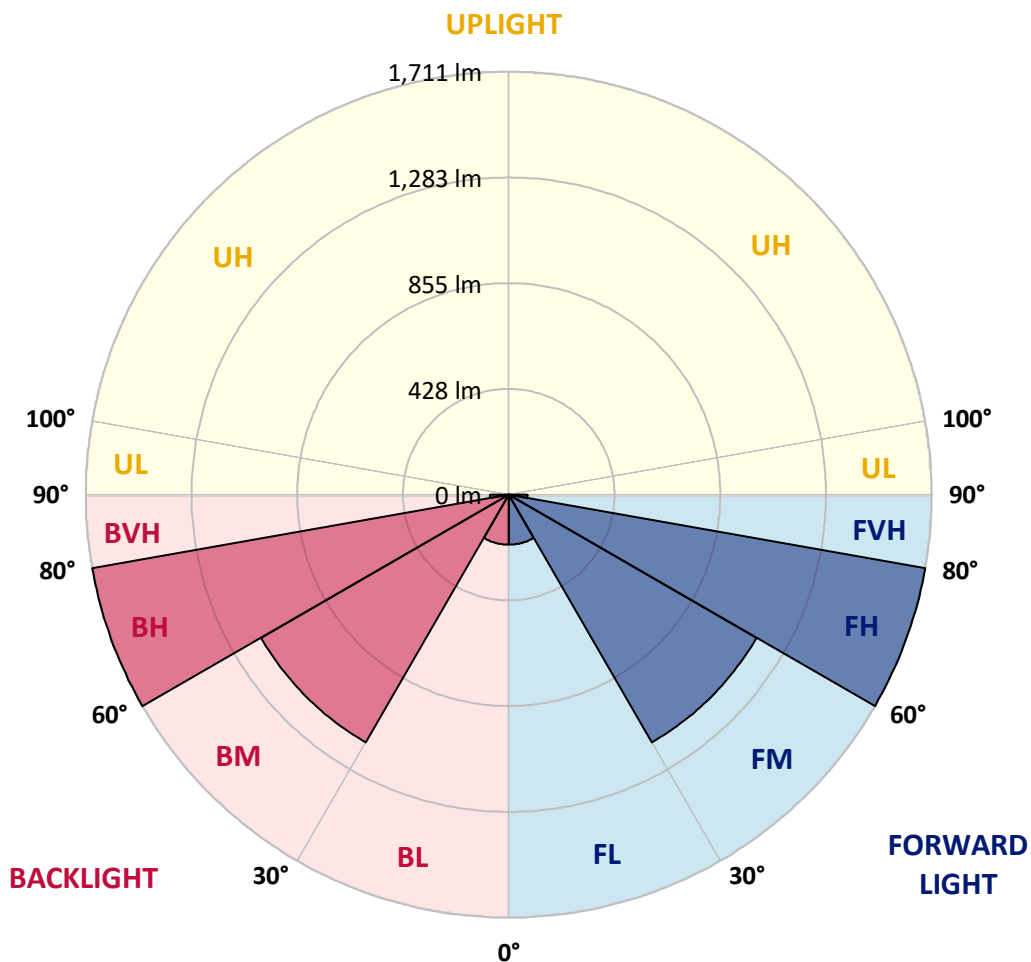
CATALOG NUMBER: VAL-E02-LED-E-U-SQ-7060

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 202.3 | 3.2 | | | |
| FM (30°-60°) | 1157.1 | 18.4 | | | |
| FH (60°-80°) | 1710.8 | 27.2 | | | G1/1800 |
| FVH (80°-90°) | 75.4 | 1.2 | | | G1/100 |
| BL (0°-30°) | 202.3 | 3.2 | B1/500 | | |
| BM (30°-60°) | 1157.1 | 18.4 | B2/2500 | | |
| BH (60°-80°) | 1710.8 | 27.2 | B3/2500 | | G1/1800 |
| BVH (80°-90°) | 75.4 | 1.2 | | | 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 Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 361.6 | 361.6 | 361.6 | 361.6 | 361.6 | 361.6 | 361.6 | 361.6 | 361.6 | 361.6 | 361.6 |
| 2.5° | 364.5 | 364.5 | 364.5 | 364.1 | 364.1 | 363.7 | 364.1 | 363.7 | 363.7 | 363.7 | 363.7 |
| 5° | 373.9 | 373.1 | 373.1 | 372.7 | 373.5 | 373.5 | 372.7 | 373.1 | 372.7 | 373.1 | 373.1 |
| 7.5° | 385.8 | 385.8 | 385.8 | 385.4 | 386.2 | 385.8 | 385.4 | 385.8 | 385.8 | 385.4 | 385.4 |
| 10° | 400.6 | 401.0 | 400.6 | 400.6 | 401.8 | 401.4 | 401.8 | 401.8 | 402.2 | 401.8 | 401.8 |
| 12.5° | 417.8 | 417.8 | 418.2 | 418.7 | 419.1 | 419.5 | 420.7 | 420.3 | 421.1 | 420.3 | 420.3 |
| 15° | 437.9 | 438.8 | 437.9 | 437.9 | 439.2 | 440.0 | 440.4 | 440.4 | 441.2 | 440.8 | 440.0 |
| 17.5° | 459.3 | 459.7 | 459.3 | 458.9 | 460.1 | 461.3 | 461.7 | 461.7 | 463.0 | 462.2 | 462.2 |
| 20° | 481.0 | 481.4 | 480.6 | 480.2 | 481.9 | 481.9 | 482.7 | 483.1 | 484.3 | 484.7 | 483.5 |
| 22.5° | 501.1 | 501.6 | 501.1 | 500.7 | 502.4 | 502.4 | 503.6 | 504.0 | 505.7 | 505.3 | 505.3 |
| 25° | 520.9 | 520.9 | 520.4 | 520.4 | 522.1 | 522.5 | 523.7 | 524.5 | 526.2 | 526.2 | 526.2 |
| 27.5° | 538.9 | 539.3 | 538.5 | 538.1 | 541.4 | 542.6 | 543.4 | 545.1 | 546.3 | 547.1 | 546.7 |
| 30° | 559.4 | 559.4 | 559.0 | 560.3 | 562.3 | 563.9 | 565.6 | 568.1 | 570.5 | 569.7 | 569.7 |
| 32.5° | 583.6 | 584.5 | 584.1 | 585.7 | 588.2 | 590.6 | 592.7 | 595.6 | 596.8 | 598.8 | 597.2 |
| 35° | 616.1 | 617.7 | 616.9 | 618.5 | 620.6 | 622.2 | 626.7 | 629.6 | 631.7 | 632.9 | 632.1 |
| 37.5° | 656.7 | 655.9 | 657.5 | 657.9 | 662.0 | 664.1 | 669.4 | 673.5 | 676.8 | 678.1 | 677.2 |
| 40° | 707.2 | 706.0 | 708.0 | 710.1 | 715.4 | 717.5 | 723.6 | 729.8 | 734.3 | 735.9 | 735.1 |
| 42.5° | 767.5 | 769.2 | 772.5 | 775.3 | 782.7 | 788.5 | 795.4 | 804.5 | 809.4 | 811.4 | 808.6 |
| 45° | 846.7 | 843.9 | 850.0 | 857.4 | 861.5 | 874.2 | 885.7 | 895.2 | 903.4 | 906.7 | 903.4 |
| 47.5° | 937.0 | 936.6 | 944.0 | 953.0 | 963.7 | 975.6 | 989.2 | 1001.5 | 1015.8 | 1016.7 | 1012.6 |
| 50° | 1036.8 | 1045.0 | 1049.1 | 1058.1 | 1077.8 | 1092.6 | 1109.8 | 1128.3 | 1141.4 | 1145.5 | 1138.2 |
| 52.5° | 1157.0 | 1163.2 | 1165.7 | 1180.8 | 1198.9 | 1217.0 | 1241.2 | 1263.3 | 1278.5 | 1280.2 | 1276.5 |
| 55° | 1287.6 | 1292.5 | 1297.0 | 1315.5 | 1335.2 | 1351.2 | 1382.0 | 1403.7 | 1418.9 | 1424.6 | 1422.2 |
| 57.5° | 1422.6 | 1427.1 | 1432.9 | 1453.0 | 1473.1 | 1495.7 | 1524.8 | 1550.2 | 1567.9 | 1578.6 | 1575.7 |
| 60° | 1572.4 | 1572.4 | 1585.5 | 1605.6 | 1622.1 | 1648.7 | 1679.1 | 1708.7 | 1728.0 | 1744.8 | 1740.3 |
| 62.5° | 1730.0 | 1734.5 | 1747.3 | 1763.7 | 1780.9 | 1805.5 | 1840.0 | 1875.3 | 1904.9 | 1917.6 | 1917.2 |
| 65° | 1849.5 | 1857.7 | 1874.5 | 1893.4 | 1922.1 | 1951.2 | 1994.7 | 2038.7 | 2074.4 | 2092.8 | 2092.8 |
| 67.5° | 1884.3 | 1889.7 | 1910.6 | 1939.3 | 1980.8 | 2027.2 | 2086.3 | 2147.4 | 2196.3 | 2220.5 | 2205.3 |
| 69° | 1856.4 | 1864.2 | 1882.7 | 1913.9 | 1963.1 | 2019.8 | 2090.0 | 2159.3 | 2216.0 | 2241.0 | 2223.4 |
| 70° | 1824.0 | 1832.6 | 1851.1 | 1881.9 | 1932.8 | 1993.1 | 2063.3 | 2138.0 | 2198.7 | 2220.1 | 2200.0 |
| 72.5° | 1691.8 | 1702.5 | 1715.6 | 1742.3 | 1788.3 | 1844.9 | 1908.1 | 1973.8 | 2032.1 | 2048.9 | 2023.9 |
| 75° | 1466.5 | 1468.6 | 1475.1 | 1494.8 | 1511.2 | 1551.5 | 1605.2 | 1657.4 | 1701.3 | 1711.1 | 1684.5 |
| 77.5° | 1038.0 | 1026.9 | 1015.8 | 1032.7 | 1045.8 | 1097.5 | 1155.8 | 1198.5 | 1244.5 | 1258.4 | 1231.3 |
| 80° | 455.2 | 451.1 | 466.7 | 488.8 | 546.7 | 581.2 | 638.2 | 699.4 | 738.4 | 783.9 | 735.1 |
| 82.5° | 89.9 | 94.8 | 109.6 | 135.4 | 167.0 | 210.1 | 247.5 | 289.8 | 327.9 | 345.2 | 327.5 |
| 85° | 36.5 | 39.8 | 45.1 | 50.5 | 54.2 | 60.7 | 71.4 | 88.7 | 97.7 | 98.9 | 94.0 |
| 87.5° | 15.2 | 17.6 | 23.8 | 28.3 | 28.7 | 27.5 | 28.3 | 29.1 | 23.8 | 19.3 | 24.2 |
| 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° | 361.6 | 361.6 | 361.6 | 361.6 | 361.6 | 361.6 | 361.6 | 361.6 |
| 2.5° | 363.7 | 364.1 | 363.7 | 364.1 | 363.7 | 363.7 | 364.1 | 363.7 |
| 5° | 372.7 | 373.1 | 372.7 | 372.3 | 371.9 | 372.3 | 372.3 | 372.3 |
| 7.5° | 385.4 | 385.0 | 384.6 | 384.6 | 384.2 | 383.8 | 384.6 | 384.6 |
| 10° | 401.0 | 400.6 | 399.8 | 399.8 | 399.4 | 399.4 | 399.4 | 399.4 |
| 12.5° | 419.9 | 418.7 | 418.2 | 417.0 | 416.6 | 416.2 | 416.2 | 416.6 |
| 15° | 439.6 | 438.4 | 437.9 | 435.9 | 435.9 | 435.5 | 435.5 | 435.5 |
| 17.5° | 460.5 | 459.3 | 457.6 | 457.6 | 456.4 | 455.6 | 456.0 | 455.2 |
| 20° | 481.9 | 480.2 | 479.4 | 479.0 | 477.3 | 477.3 | 477.3 | 476.9 |
| 22.5° | 502.8 | 501.6 | 500.3 | 498.7 | 497.0 | 496.6 | 496.6 | 496.2 |
| 25° | 524.1 | 522.1 | 519.6 | 518.0 | 516.3 | 515.1 | 515.1 | 515.1 |
| 27.5° | 545.5 | 543.0 | 539.3 | 537.3 | 534.8 | 533.6 | 533.6 | 533.2 |
| 30° | 568.1 | 565.2 | 561.9 | 559.0 | 555.7 | 554.5 | 554.1 | 553.3 |
| 32.5° | 595.1 | 592.3 | 589.0 | 584.9 | 581.6 | 579.5 | 579.5 | 578.3 |
| 35° | 629.6 | 626.3 | 623.9 | 618.5 | 614.4 | 611.1 | 611.6 | 612.4 |
| 37.5° | 674.8 | 670.7 | 668.6 | 662.0 | 656.7 | 653.4 | 653.4 | 653.0 |
| 40° | 732.2 | 728.1 | 723.6 | 717.5 | 710.9 | 706.4 | 705.1 | 705.1 |
| 42.5° | 805.3 | 801.6 | 795.4 | 786.8 | 779.0 | 774.1 | 770.0 | 770.4 |
| 45° | 896.8 | 892.3 | 883.7 | 873.0 | 863.6 | 856.6 | 850.8 | 850.8 |
| 47.5° | 1008.0 | 998.6 | 986.7 | 977.3 | 961.3 | 950.6 | 946.5 | 945.7 |
| 50° | 1134.9 | 1117.2 | 1102.4 | 1088.9 | 1072.1 | 1061.0 | 1054.8 | 1053.2 |
| 52.5° | 1267.9 | 1249.4 | 1230.9 | 1213.3 | 1192.7 | 1181.3 | 1171.4 | 1170.6 |
| 55° | 1412.3 | 1388.9 | 1365.5 | 1348.3 | 1324.1 | 1312.2 | 1302.3 | 1296.6 |
| 57.5° | 1559.7 | 1533.4 | 1516.6 | 1492.0 | 1466.5 | 1457.9 | 1448.5 | 1441.5 |
| 60° | 1725.5 | 1696.8 | 1674.6 | 1648.7 | 1632.3 | 1613.9 | 1604.8 | 1599.5 |
| 62.5° | 1895.0 | 1868.3 | 1840.0 | 1815.4 | 1792.4 | 1779.7 | 1767.4 | 1761.2 |
| 65° | 2067.4 | 2023.5 | 1989.8 | 1955.8 | 1928.7 | 1905.7 | 1886.4 | 1883.9 |
| 67.5° | 2173.3 | 2117.9 | 2061.7 | 2012.0 | 1972.2 | 1939.7 | 1920.0 | 1913.1 |
| 69° | 2181.9 | 2121.6 | 2051.4 | 1991.9 | 1945.9 | 1914.7 | 1891.3 | 1883.9 |
| 70° | 2158.1 | 2097.4 | 2023.5 | 1959.5 | 1911.8 | 1877.8 | 1858.5 | 1846.2 |
| 72.5° | 1984.1 | 1930.7 | 1859.7 | 1796.5 | 1753.4 | 1713.6 | 1694.3 | 1689.4 |
| 75° | 1636.8 | 1580.2 | 1514.9 | 1484.6 | 1454.6 | 1429.6 | 1416.4 | 1415.2 |
| 77.5° | 1162.4 | 1104.5 | 1054.8 | 1015.0 | 982.6 | 966.6 | 970.3 | 956.7 |
| 80° | 665.3 | 589.8 | 529.9 | 494.6 | 446.6 | 417.8 | 385.4 | 408.8 |
| 82.5° | 286.1 | 231.1 | 176.1 | 143.2 | 109.2 | 86.6 | 71.4 | 66.5 |
| 85° | 80.0 | 65.3 | 54.6 | 50.1 | 45.1 | 40.2 | 34.1 | 31.6 |
| 87.5° | 27.1 | 25.9 | 23.0 | 23.0 | 20.9 | 17.6 | 12.3 | 11.1 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)