

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: P233948

Luminaire Tested: **VERD-G-C02H-D-U-T4-8027-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P233948
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1710-389-34)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-G-C02H-D-U-T4-8027-HSS
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE
(2) 80 CRI, 2700K, 1370mA LEDS AND TYPE IV OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14773 lumens
Efficiency: N/A
Efficacy: 95.3 lumens/watt
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B2 - U0 - G4

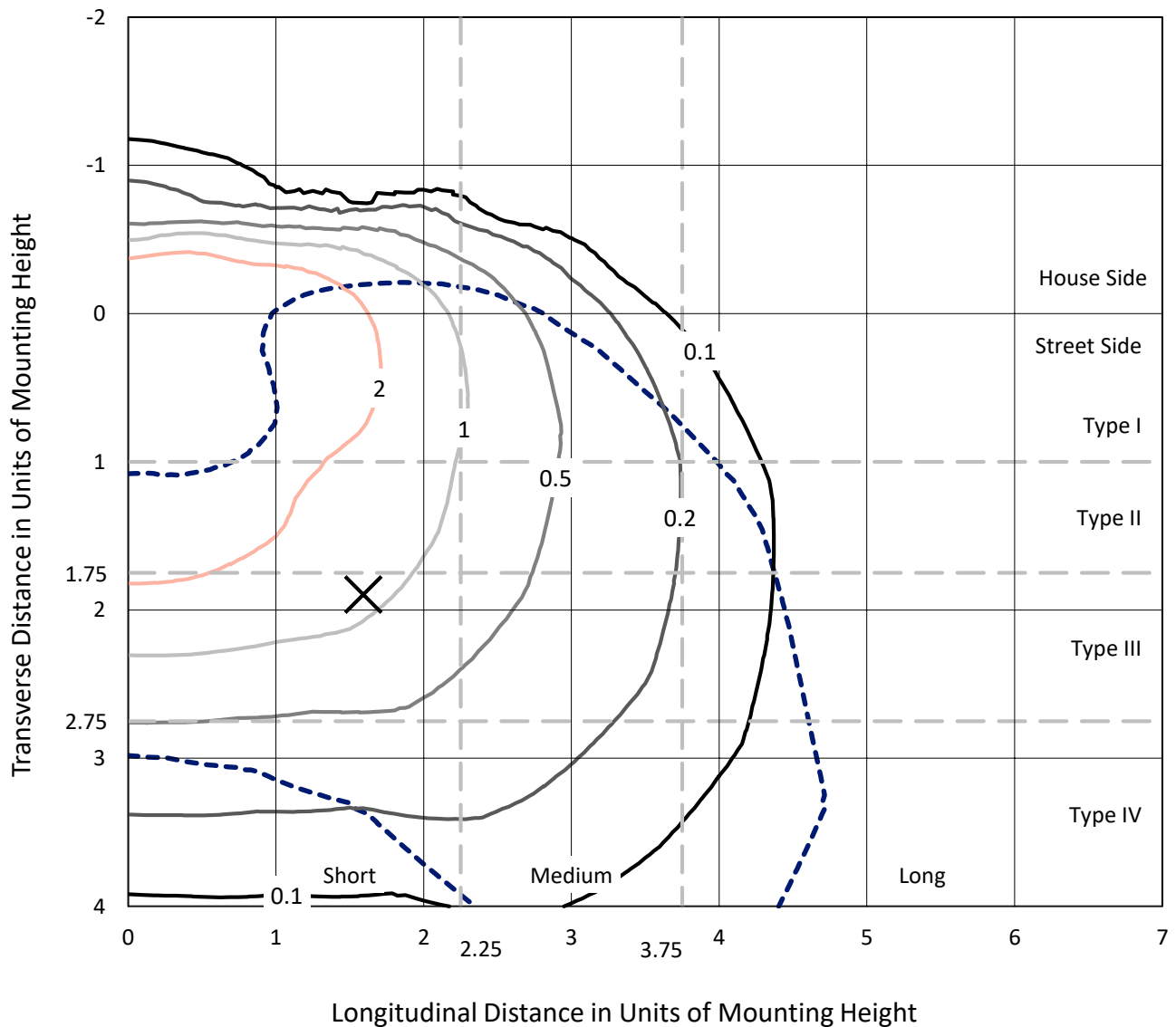
Input Watts (W): 155
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

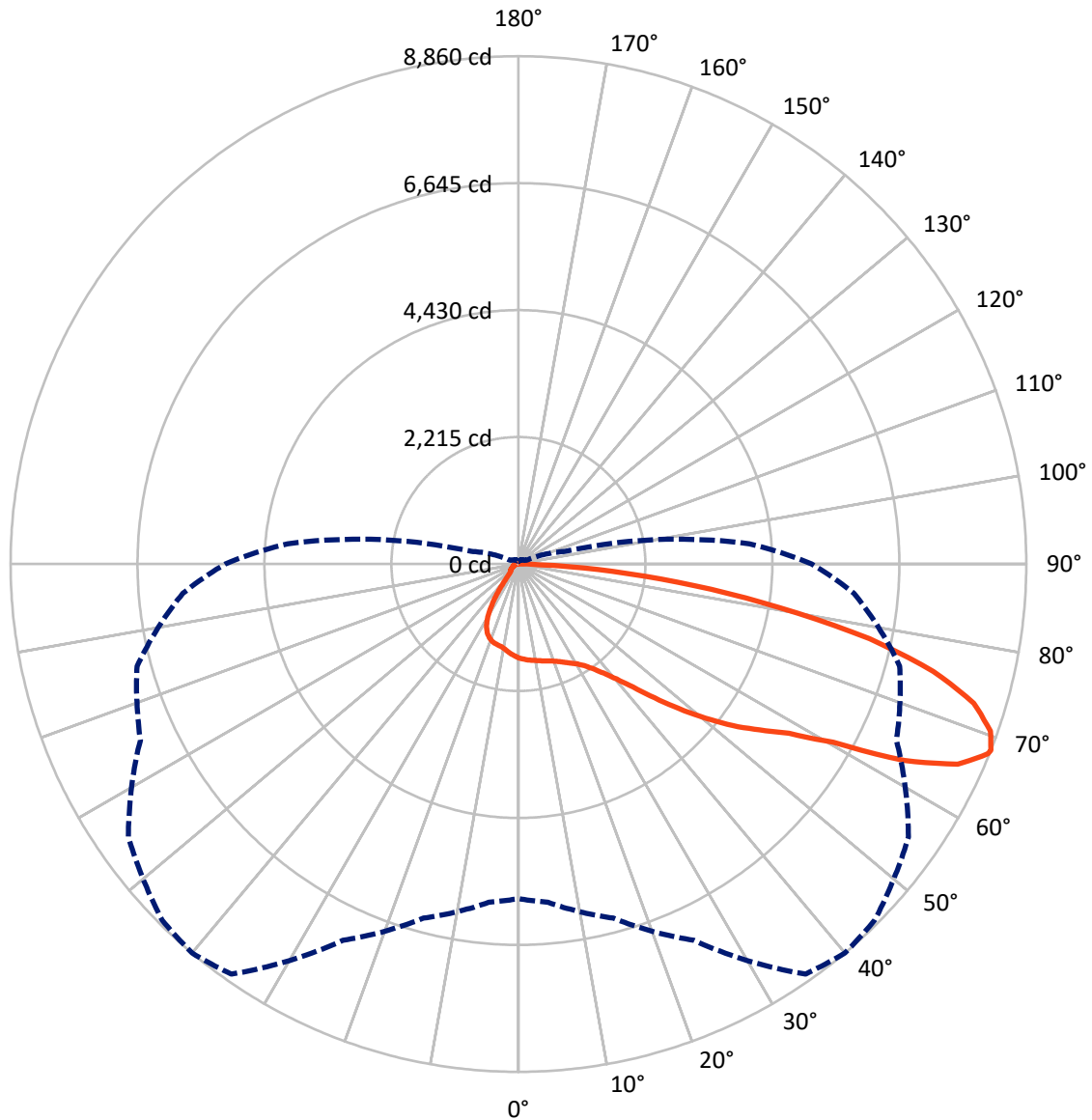


Based on 20 foot mounting height. Maximum calculated value = 4.4 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 68-Deg Vertical



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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2396.5 | 0.0 | 2396.5 |
| | % Fixture | 16.2 | 0.0 | 16.2 |
| Street Side | Lumens | 12376.5 | 0.0 | 12376.5 |
| | % Fixture | 83.8 | 0.0 | 83.8 |
| Total | Lumens | 14773.0 | 0.0 | 14773.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 155.7 | 1.1 |
| 10°-20° | 466.5 | 3.2 |
| 20°-30° | 782.9 | 5.3 |
| 30°-40° | 1159.4 | 7.8 |
| 40°-50° | 1961.4 | 13.3 |
| 50°-60° | 2993.5 | 20.3 |
| 60°-70° | 3919.6 | 26.5 |
| 70°-80° | 2818.0 | 19.1 |
| 80°-90° | 515.9 | 3.5 |
| 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° | 14773.0 | 100.0 |
| 0°-180° | 14773.0 | 100.0 |



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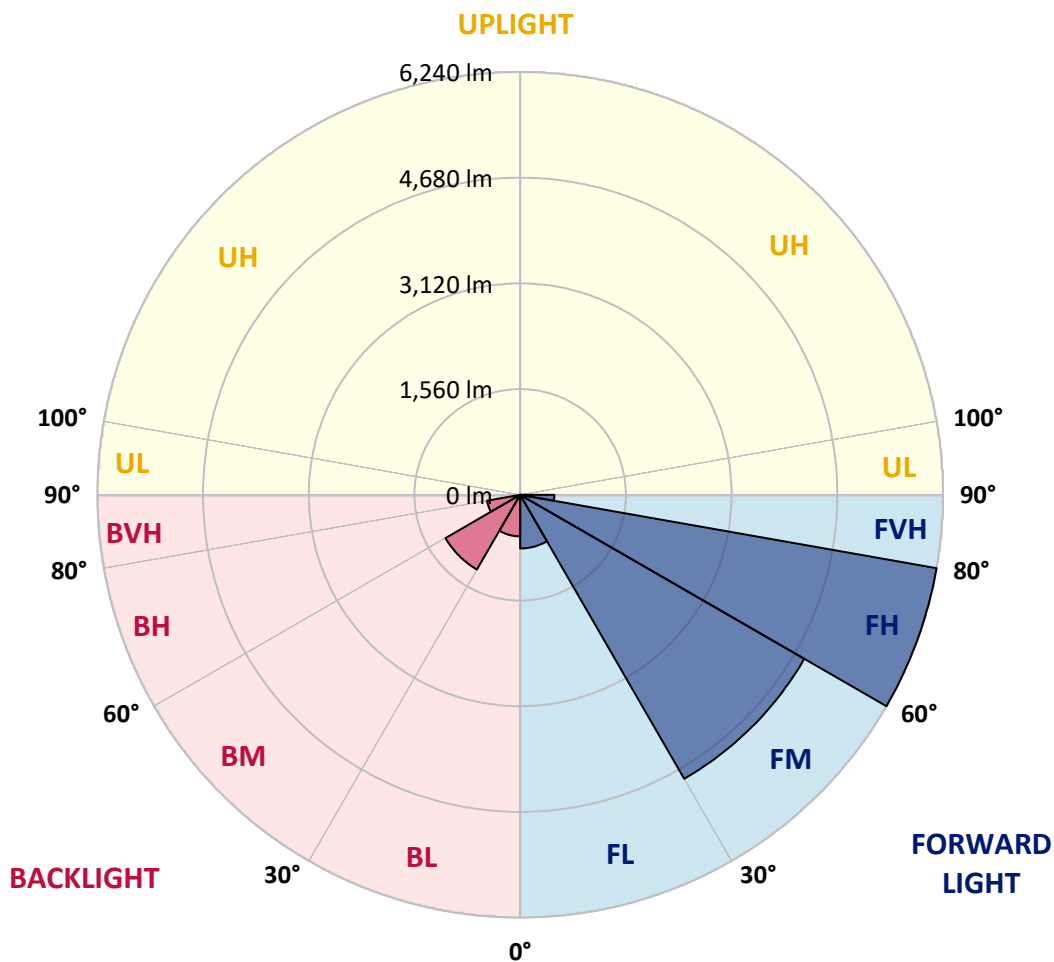
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 791.9 | 5.4 | | | |
| FM | (30°-60°) | 4840.6 | 32.8 | | | |
| FH | (60°-80°) | 6240.3 | 42.2 | | | G3/7500 |
| FVH | (80°-90°) | 503.6 | 3.4 | | | G4/750 |
| BL | (0°-30°) | 613.1 | 4.2 | B2/1000 | | |
| BM | (30°-60°) | 1273.7 | 8.6 | B2/2500 | | |
| BH | (60°-80°) | 497.3 | 3.4 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 12.3 | 0.1 | | | G1/100 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 40° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1641.6 | 1641.6 | 1641.6 | 1641.6 | 1641.6 | 1641.6 | 1641.6 | 1641.6 | 1641.6 | 1641.6 | 1641.6 |
| 2.5° | 1693.5 | 1697.2 | 1692.3 | 1679.9 | 1666.3 | 1658.9 | 1657.6 | 1656.4 | 1650.2 | 1641.6 | 1629.2 |
| 5° | 1710.8 | 1712.1 | 1707.1 | 1697.2 | 1684.9 | 1682.4 | 1678.7 | 1679.9 | 1676.2 | 1667.5 | 1653.9 |
| 7.5° | 1718.3 | 1720.7 | 1714.6 | 1704.7 | 1694.8 | 1694.8 | 1693.5 | 1697.2 | 1694.8 | 1691.0 | 1675.0 |
| 10° | 1715.8 | 1719.5 | 1715.8 | 1712.1 | 1708.4 | 1712.1 | 1709.6 | 1718.3 | 1719.5 | 1719.5 | 1700.9 |
| 12.5° | 1712.1 | 1717.0 | 1718.3 | 1722.0 | 1728.2 | 1731.9 | 1736.8 | 1755.4 | 1764.0 | 1770.2 | 1755.4 |
| 15° | 1715.8 | 1718.3 | 1728.2 | 1734.3 | 1746.7 | 1755.4 | 1766.5 | 1797.4 | 1812.3 | 1829.6 | 1822.2 |
| 17.5° | 1731.9 | 1738.1 | 1752.9 | 1759.1 | 1771.5 | 1777.6 | 1791.2 | 1829.6 | 1859.3 | 1890.2 | 1895.2 |
| 20° | 1766.5 | 1770.2 | 1795.0 | 1797.4 | 1803.6 | 1809.8 | 1824.6 | 1866.7 | 1911.2 | 1955.8 | 1968.1 |
| 22.5° | 1804.9 | 1813.5 | 1837.0 | 1833.3 | 1845.7 | 1848.2 | 1861.8 | 1907.5 | 1969.4 | 2023.8 | 2051.0 |
| 25° | 1844.4 | 1851.9 | 1875.4 | 1877.8 | 1892.7 | 1902.6 | 1918.7 | 1963.2 | 2042.4 | 2111.6 | 2159.9 |
| 27.5° | 1877.8 | 1892.7 | 1915.0 | 1917.4 | 1945.9 | 1958.3 | 1981.8 | 2032.5 | 2127.7 | 2213.1 | 2292.3 |
| 30° | 1939.7 | 1943.4 | 1964.4 | 1971.9 | 2010.2 | 2021.3 | 2048.6 | 2112.9 | 2229.2 | 2335.6 | 2459.3 |
| 32.5° | 2016.4 | 2015.2 | 2034.9 | 2047.3 | 2094.3 | 2114.1 | 2148.8 | 2223.0 | 2351.6 | 2484.0 | 2659.7 |
| 35° | 2157.4 | 2145.0 | 2157.4 | 2169.8 | 2224.2 | 2245.2 | 2282.4 | 2393.7 | 2544.6 | 2769.8 | 2986.2 |
| 37.5° | 2481.5 | 2463.0 | 2437.0 | 2375.1 | 2388.7 | 2416.0 | 2470.4 | 2621.3 | 2844.0 | 3262.1 | 3471.2 |
| 40° | 3043.1 | 3002.3 | 2893.5 | 2730.2 | 2633.7 | 2636.2 | 2686.9 | 2884.8 | 3211.4 | 3826.2 | 3983.3 |
| 42.5° | 3551.6 | 3523.1 | 3392.0 | 3168.1 | 2945.4 | 2933.0 | 2950.4 | 3181.7 | 3612.2 | 4349.5 | 4431.1 |
| 45° | 4030.3 | 4043.9 | 3853.4 | 3677.8 | 3411.8 | 3330.1 | 3309.1 | 3498.4 | 4056.3 | 4815.8 | 4823.3 |
| 47.5° | 4473.2 | 4495.4 | 4265.3 | 4099.6 | 3837.3 | 3766.8 | 3701.3 | 3831.1 | 4475.6 | 5212.9 | 5152.3 |
| 50° | 4949.4 | 4966.8 | 4647.6 | 4511.5 | 4291.3 | 4225.8 | 4176.3 | 4233.2 | 4904.9 | 5581.6 | 5445.5 |
| 52.5° | 5607.5 | 5511.1 | 5110.3 | 4885.1 | 4689.7 | 4684.7 | 4646.4 | 4682.2 | 5393.5 | 5913.1 | 5668.2 |
| 55° | 6384.4 | 6132.1 | 5706.5 | 5346.5 | 5095.4 | 5109.0 | 5063.2 | 5122.6 | 5877.2 | 6197.6 | 5874.8 |
| 57.5° | 6659.0 | 6652.9 | 6454.9 | 6109.8 | 5600.1 | 5569.2 | 5490.0 | 5556.8 | 6295.3 | 6463.6 | 6020.7 |
| 60° | 7040.1 | 7073.5 | 7095.7 | 6887.9 | 6593.5 | 6312.7 | 6047.9 | 6041.8 | 6685.0 | 6706.0 | 6092.5 |
| 62.5° | 7286.2 | 7317.2 | 7490.3 | 7463.1 | 7645.0 | 7552.2 | 7250.4 | 6581.1 | 6983.1 | 6863.2 | 6119.7 |
| 65° | 6826.0 | 6902.7 | 7339.4 | 7672.2 | 8291.9 | 8421.8 | 8378.5 | 7409.9 | 7186.0 | 6908.9 | 6069.0 |
| 67.5° | 5993.5 | 6093.7 | 6572.4 | 7350.6 | 8692.8 | 8837.5 | 8758.3 | 8244.9 | 7273.9 | 6889.1 | 5929.2 |
| 68° | 5837.6 | 5924.2 | 6394.3 | 7242.9 | 8733.6 | 8859.8 | 8788.0 | 8306.8 | 7277.6 | 6886.7 | 5876.0 |
| 70° | 5088.0 | 5158.5 | 5617.4 | 6691.2 | 8619.8 | 8737.3 | 8727.4 | 8364.9 | 7245.4 | 6810.0 | 5518.5 |
| 72.5° | 3947.4 | 4017.9 | 4424.9 | 5549.4 | 8094.0 | 8309.3 | 8300.6 | 8132.4 | 7186.0 | 6419.1 | 4626.6 |
| 75° | 2853.9 | 2931.8 | 3302.9 | 4264.1 | 7004.2 | 7478.0 | 7573.2 | 7734.0 | 6568.7 | 5402.2 | 3291.8 |
| 77.5° | 2060.9 | 2117.8 | 2438.2 | 3221.3 | 5721.4 | 6263.2 | 6456.2 | 6618.2 | 5376.2 | 3937.5 | 1566.1 |
| 80° | 1374.4 | 1415.2 | 1724.4 | 2394.9 | 4309.9 | 4629.0 | 4836.9 | 4566.0 | 3059.2 | 1423.8 | 169.5 |
| 82.5° | 846.1 | 872.1 | 1115.8 | 1679.9 | 2981.3 | 3081.5 | 3082.7 | 2435.8 | 985.9 | 136.1 | 91.5 |
| 85° | 454.0 | 462.7 | 606.2 | 916.7 | 1574.8 | 1650.2 | 1620.5 | 1023.0 | 199.2 | 73.0 | 49.5 |
| 87.5° | 73.0 | 79.2 | 190.5 | 343.9 | 486.2 | 374.8 | 240.0 | 75.5 | 19.8 | 11.1 | 7.4 |
| 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° | 1641.6 | 1641.6 | 1641.6 | 1641.6 | 1641.6 | 1641.6 | 1641.6 | 1641.6 | 1641.6 | 1641.6 | 1641.6 |
| 2.5° | 1635.4 | 1631.7 | 1621.8 | 1616.8 | 1604.5 | 1608.2 | 1608.2 | 1598.3 | 1603.2 | 1623.0 | 1620.5 |
| 5° | 1650.2 | 1651.5 | 1628.0 | 1615.6 | 1588.4 | 1581.0 | 1569.8 | 1555.0 | 1553.7 | 1567.3 | 1568.6 |
| 7.5° | 1662.6 | 1668.8 | 1635.4 | 1610.6 | 1573.5 | 1547.5 | 1525.3 | 1499.3 | 1493.1 | 1501.8 | 1501.8 |
| 10° | 1682.4 | 1688.6 | 1646.5 | 1611.9 | 1557.4 | 1515.4 | 1477.0 | 1443.6 | 1430.0 | 1430.0 | 1431.3 |
| 12.5° | 1734.3 | 1730.6 | 1682.4 | 1629.2 | 1564.9 | 1498.1 | 1437.5 | 1392.9 | 1360.8 | 1359.5 | 1354.6 |
| 15° | 1806.1 | 1792.5 | 1745.5 | 1665.1 | 1582.2 | 1496.8 | 1412.7 | 1343.4 | 1287.8 | 1272.9 | 1266.7 |
| 17.5° | 1882.8 | 1865.5 | 1808.6 | 1710.8 | 1609.4 | 1495.6 | 1384.3 | 1287.8 | 1195.0 | 1159.1 | 1148.0 |
| 20° | 1965.7 | 1944.6 | 1886.5 | 1764.0 | 1636.6 | 1486.9 | 1342.2 | 1207.4 | 1081.2 | 1013.1 | 995.8 |
| 22.5° | 2057.2 | 2039.9 | 1969.4 | 1818.5 | 1655.2 | 1468.4 | 1276.6 | 1105.9 | 945.1 | 847.4 | 840.0 |
| 25° | 2176.0 | 2159.9 | 2056.0 | 1866.7 | 1656.4 | 1433.7 | 1190.0 | 976.0 | 774.4 | 659.3 | 635.8 |
| 27.5° | 2318.2 | 2289.8 | 2125.3 | 1896.4 | 1636.6 | 1373.1 | 1077.5 | 802.8 | 575.2 | 478.7 | 476.3 |
| 30° | 2472.9 | 2420.9 | 2180.9 | 1903.8 | 1592.1 | 1276.6 | 922.8 | 590.1 | 408.2 | 342.7 | 342.7 |
| 32.5° | 2654.7 | 2559.5 | 2237.8 | 1891.4 | 1519.1 | 1143.0 | 706.4 | 409.5 | 280.8 | 249.9 | 249.9 |
| 35° | 2920.7 | 2773.5 | 2310.8 | 1860.5 | 1416.4 | 958.7 | 502.2 | 270.9 | 221.4 | 217.7 | 217.7 |
| 37.5° | 3341.3 | 3096.3 | 2409.8 | 1808.6 | 1275.4 | 731.1 | 326.6 | 209.1 | 211.5 | 211.5 | 210.3 |
| 40° | 3789.1 | 3469.9 | 2545.8 | 1725.7 | 1098.5 | 504.7 | 214.0 | 197.9 | 201.6 | 204.1 | 202.9 |
| 42.5° | 4193.6 | 3825.0 | 2694.3 | 1614.4 | 889.4 | 317.9 | 195.5 | 190.5 | 188.0 | 190.5 | 191.7 |
| 45° | 4543.7 | 4133.0 | 2844.0 | 1469.6 | 656.9 | 207.8 | 190.5 | 179.4 | 171.9 | 173.2 | 174.4 |
| 47.5° | 4843.1 | 4375.4 | 2945.4 | 1317.5 | 435.4 | 184.3 | 184.3 | 164.5 | 157.1 | 157.1 | 157.1 |
| 50° | 5105.3 | 4590.7 | 3007.3 | 1135.6 | 259.8 | 181.8 | 173.2 | 150.9 | 143.5 | 142.3 | 143.5 |
| 52.5° | 5295.8 | 4741.6 | 2999.8 | 914.2 | 174.4 | 175.7 | 158.3 | 138.5 | 129.9 | 132.4 | 133.6 |
| 55° | 5446.7 | 4836.9 | 2934.3 | 669.2 | 163.3 | 164.5 | 147.2 | 124.9 | 118.8 | 120.0 | 120.0 |
| 57.5° | 5542.0 | 4860.4 | 2800.7 | 435.4 | 159.6 | 147.2 | 132.4 | 111.3 | 103.9 | 103.9 | 103.9 |
| 60° | 5572.9 | 4848.0 | 2618.8 | 278.3 | 158.3 | 132.4 | 120.0 | 100.2 | 92.8 | 92.8 | 92.8 |
| 62.5° | 5546.9 | 4776.3 | 2310.8 | 200.4 | 147.2 | 123.7 | 108.9 | 89.1 | 81.6 | 79.2 | 79.2 |
| 65° | 5454.2 | 4584.5 | 1781.4 | 165.8 | 132.4 | 113.8 | 99.0 | 80.4 | 70.5 | 66.8 | 65.6 |
| 67.5° | 5183.2 | 4168.9 | 1036.6 | 155.9 | 120.0 | 103.9 | 91.5 | 73.0 | 61.9 | 55.7 | 54.4 |
| 68° | 5112.7 | 4045.2 | 852.3 | 154.6 | 120.0 | 102.7 | 90.3 | 70.5 | 59.4 | 53.2 | 52.0 |
| 70° | 4608.0 | 3263.3 | 244.9 | 147.2 | 117.5 | 99.0 | 82.9 | 64.3 | 53.2 | 45.8 | 44.5 |
| 72.5° | 3469.9 | 1912.5 | 153.4 | 131.1 | 116.3 | 87.8 | 80.4 | 64.3 | 47.0 | 39.6 | 37.1 |
| 75° | 1937.2 | 435.4 | 129.9 | 97.7 | 108.9 | 86.6 | 79.2 | 58.1 | 42.1 | 32.2 | 30.9 |
| 77.5° | 398.3 | 126.2 | 111.3 | 68.0 | 82.9 | 75.5 | 66.8 | 49.5 | 38.3 | 24.7 | 23.5 |
| 80° | 112.6 | 94.0 | 99.0 | 49.5 | 47.0 | 53.2 | 49.5 | 43.3 | 28.5 | 18.6 | 18.6 |
| 82.5° | 73.0 | 69.3 | 89.1 | 33.4 | 24.7 | 24.7 | 32.2 | 26.0 | 24.7 | 14.8 | 14.8 |
| 85° | 44.5 | 58.1 | 43.3 | 14.8 | 12.4 | 9.9 | 11.1 | 11.1 | 14.8 | 9.9 | 9.9 |
| 87.5° | 6.2 | 6.2 | 6.2 | 6.2 | 6.2 | 4.9 | 3.7 | 3.7 | 3.7 | 4.9 | 4.9 |
| 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)