

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: P233463

Luminaire Tested: **VERD-C02H6-D-U-T2-8027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P233463
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1710-389-10)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-C02H6-D-U-T2-8027
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 80 CRI, 2700K, 1250mA LEDS AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10241 lumens
Efficiency: N/A
Efficacy: 104.5 lumens/watt
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B2 - U0 - G2

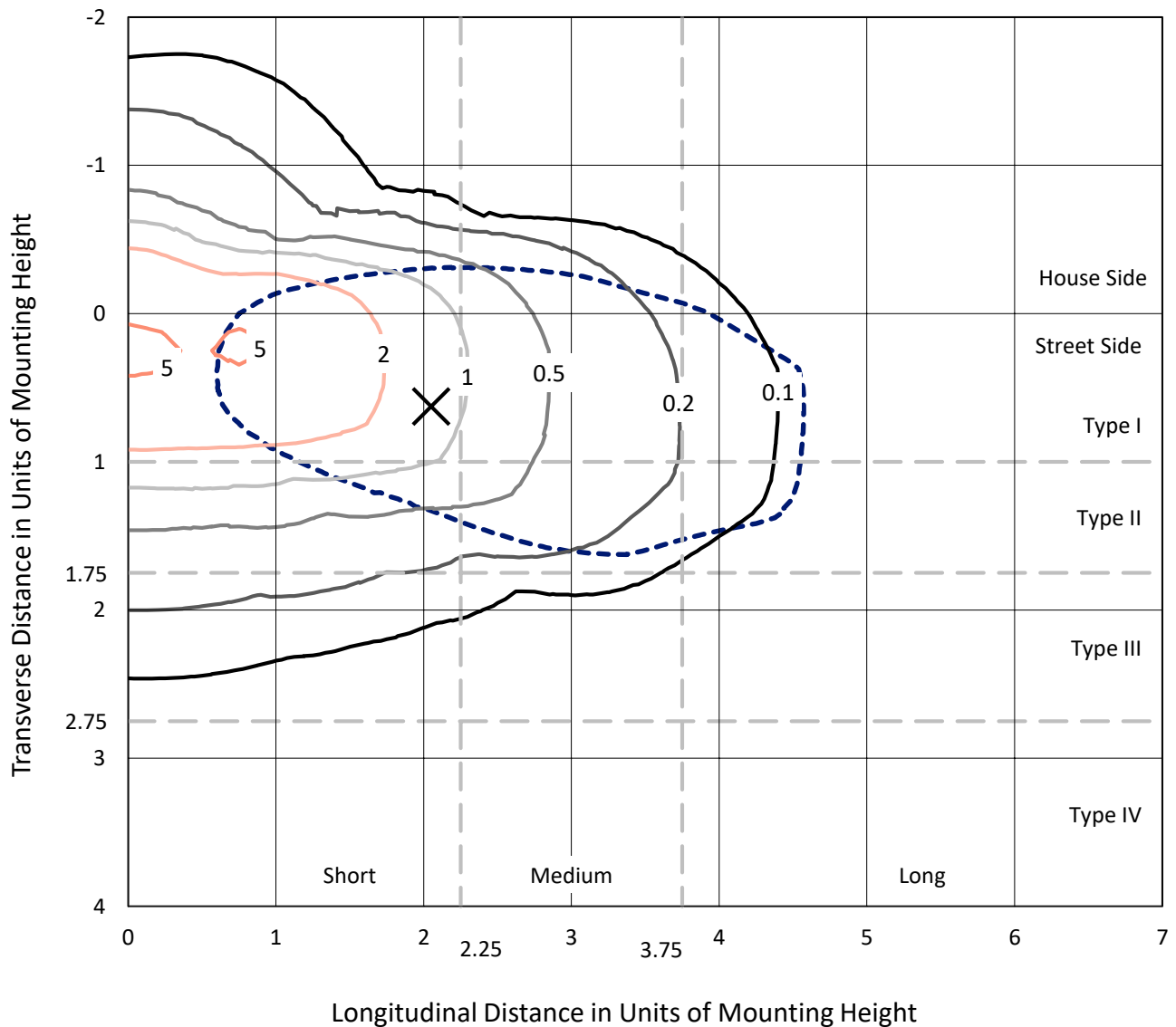
Input Watts (W): 98
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

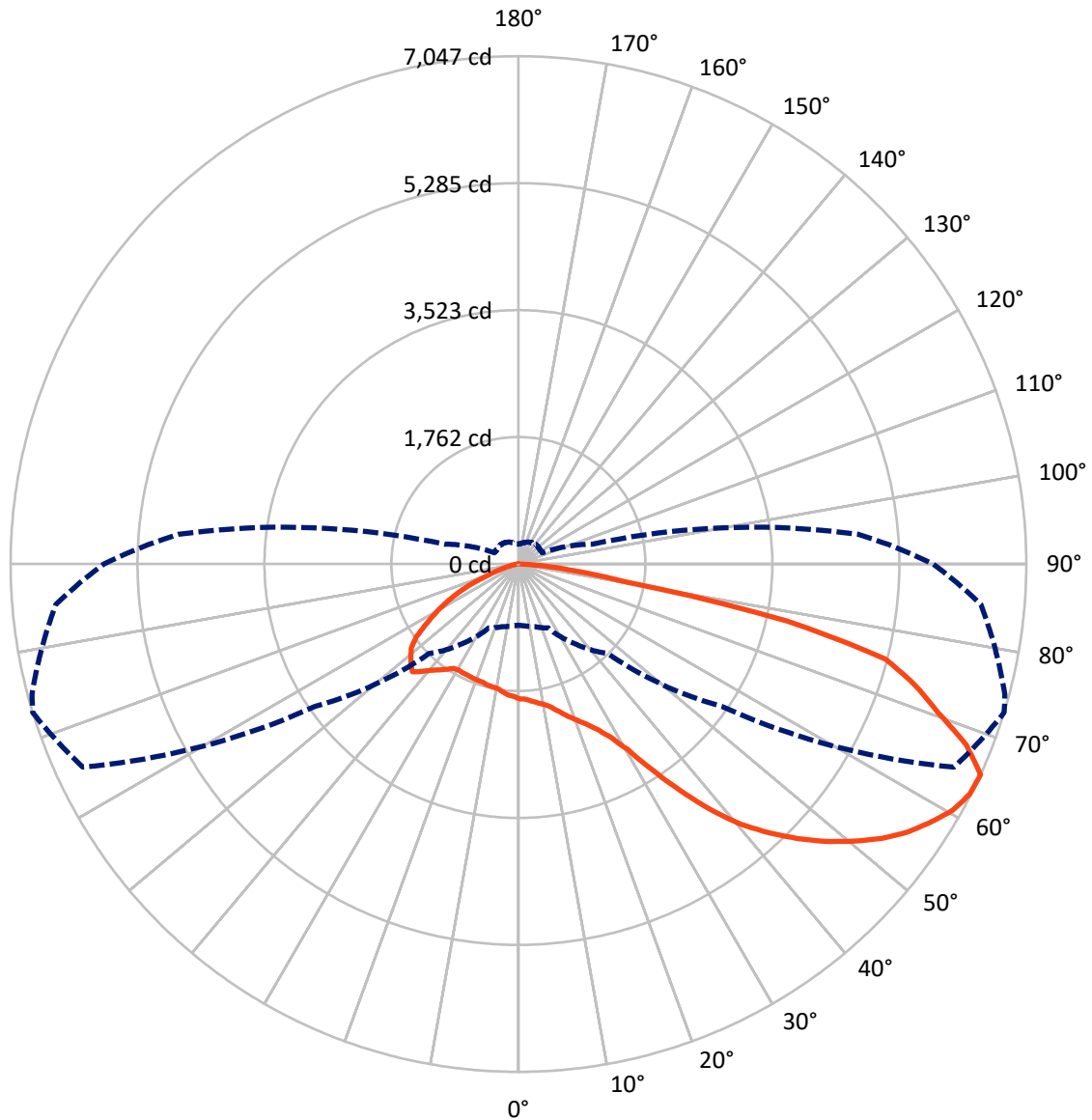
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.4 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 73-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2625.2 | 0.0 | 2625.2 |
| | % Fixture | 25.6 | 0.0 | 25.6 |
| Street Side | Lumens | 7615.8 | 0.0 | 7615.8 |
| | % Fixture | 74.4 | 0.0 | 74.4 |
| Total | Lumens | 10241.0 | 0.0 | 10241.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 178.7 | 1.7 |
| 10°-20° | 540.3 | 5.3 |
| 20°-30° | 906.3 | 8.8 |
| 30°-40° | 1329.1 | 13.0 |
| 40°-50° | 1796.3 | 17.5 |
| 50°-60° | 2080.9 | 20.3 |
| 60°-70° | 2032.6 | 19.8 |
| 70°-80° | 1220.6 | 11.9 |
| 80°-90° | 156.3 | 1.5 |
| 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° | 10241.0 | 100.0 |
| 0°-180° | 10241.0 | 100.0 |



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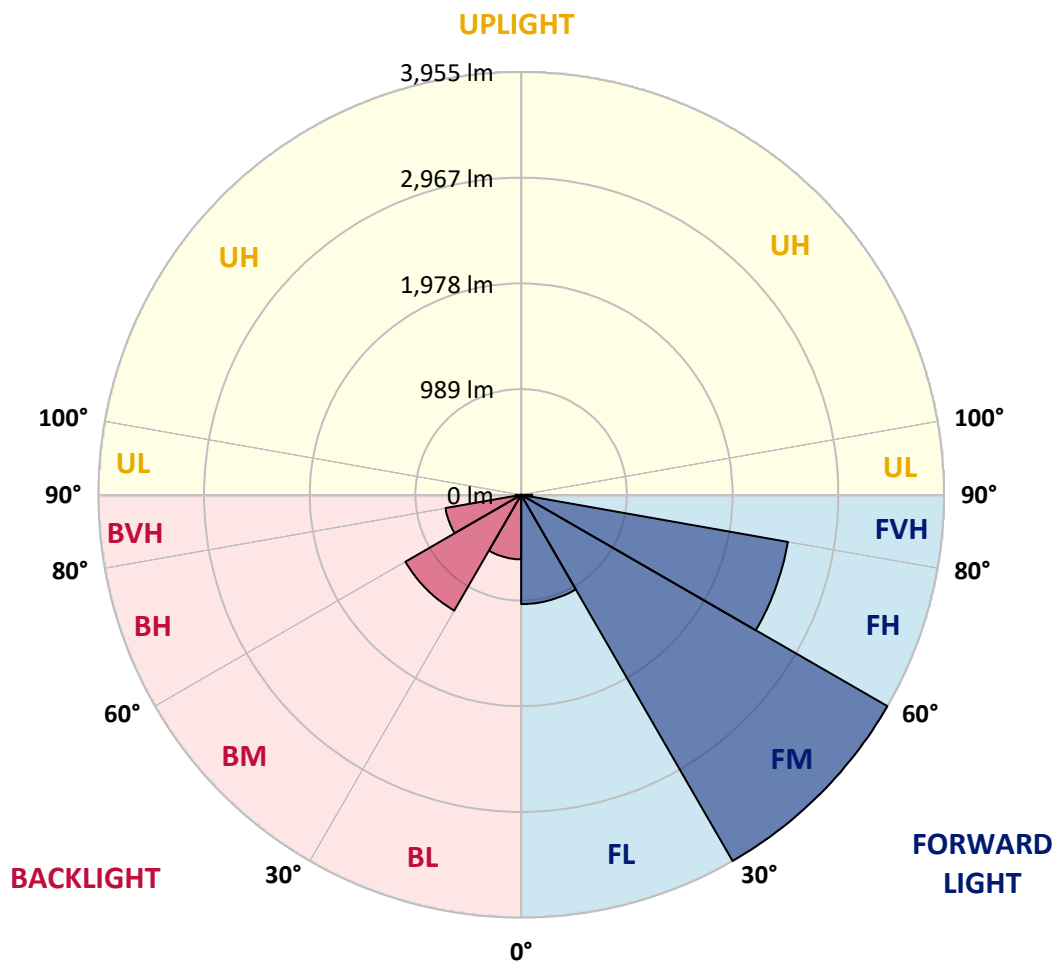
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 1021.9 | 10.0 | | | |
| FM | (30°-60°) | 3955.4 | 38.6 | | | |
| FH | (60°-80°) | 2534.4 | 24.7 | | | G2/5000 |
| FVH | (80°-90°) | 104.1 | 1.0 | | | G2/225 |
| BL | (0°-30°) | 603.4 | 5.9 | B2/1000 | | |
| BM | (30°-60°) | 1250.8 | 12.2 | B2/2500 | | |
| BH | (60°-80°) | 718.8 | 7.0 | B2/1000 | | G2/1000 |
| BVH | (80°-90°) | 52.2 | 0.5 | | | G1/100 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 73° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1872.6 | 1872.6 | 1872.6 | 1872.6 | 1872.6 | 1872.6 | 1872.6 | 1872.6 | 1872.6 | 1872.6 | 1872.6 |
| 2.5° | 1987.9 | 1995.3 | 1986.9 | 1962.7 | 1950.7 | 1942.3 | 1917.2 | 1894.9 | 1877.2 | 1875.3 | 1858.6 |
| 5° | 2064.1 | 2075.3 | 2061.3 | 2030.6 | 2018.5 | 2000.9 | 1973.0 | 1942.3 | 1910.7 | 1904.2 | 1870.7 |
| 7.5° | 2160.8 | 2162.6 | 2155.2 | 2124.5 | 2099.4 | 2062.2 | 2013.9 | 1981.3 | 1945.1 | 1934.9 | 1881.9 |
| 10° | 2242.6 | 2241.7 | 2232.4 | 2202.6 | 2177.5 | 2145.0 | 2077.1 | 2024.1 | 1981.3 | 1968.3 | 1894.9 |
| 12.5° | 2320.7 | 2318.9 | 2309.6 | 2278.9 | 2247.3 | 2220.3 | 2169.2 | 2097.6 | 2039.9 | 2023.2 | 1932.1 |
| 15° | 2417.4 | 2412.8 | 2397.9 | 2357.0 | 2331.9 | 2300.3 | 2263.1 | 2191.5 | 2125.5 | 2102.2 | 1986.0 |
| 17.5° | 2491.8 | 2490.9 | 2479.7 | 2445.3 | 2415.5 | 2381.1 | 2346.7 | 2291.0 | 2219.4 | 2193.3 | 2039.0 |
| 20° | 2534.6 | 2530.8 | 2528.0 | 2501.1 | 2493.6 | 2475.1 | 2425.8 | 2383.0 | 2311.4 | 2284.4 | 2098.5 |
| 22.5° | 2580.1 | 2581.0 | 2582.0 | 2568.0 | 2589.4 | 2573.6 | 2537.3 | 2485.3 | 2412.8 | 2382.1 | 2182.2 |
| 25° | 2590.3 | 2592.2 | 2610.8 | 2641.5 | 2667.5 | 2696.3 | 2670.3 | 2619.2 | 2541.1 | 2508.5 | 2296.5 |
| 27.5° | 2561.5 | 2569.0 | 2624.7 | 2676.8 | 2768.9 | 2806.1 | 2801.4 | 2798.6 | 2718.7 | 2686.1 | 2453.7 |
| 30° | 2587.6 | 2587.6 | 2625.7 | 2714.9 | 2831.2 | 2928.8 | 2950.2 | 3009.7 | 2985.5 | 2962.3 | 2717.7 |
| 32.5° | 2509.5 | 2523.4 | 2591.3 | 2715.9 | 2900.0 | 3042.2 | 3138.9 | 3304.4 | 3400.2 | 3380.6 | 3091.5 |
| 35° | 2362.5 | 2381.1 | 2480.6 | 2671.2 | 2934.4 | 3176.1 | 3349.0 | 3667.9 | 3853.0 | 3876.2 | 3541.5 |
| 37.5° | 2249.1 | 2264.9 | 2389.5 | 2601.5 | 2947.4 | 3301.6 | 3591.7 | 4077.0 | 4316.0 | 4303.9 | 3922.7 |
| 40° | 2110.6 | 2138.5 | 2264.0 | 2518.8 | 2916.7 | 3408.5 | 3854.8 | 4452.7 | 4746.5 | 4690.7 | 4285.3 |
| 42.5° | 1986.0 | 2010.2 | 2115.2 | 2386.7 | 2873.9 | 3469.0 | 4092.9 | 4839.5 | 5097.0 | 5052.4 | 4628.4 |
| 45° | 1854.0 | 1875.3 | 1973.0 | 2228.7 | 2774.4 | 3498.7 | 4316.0 | 5209.5 | 5433.6 | 5383.4 | 4946.4 |
| 47.5° | 1702.4 | 1731.2 | 1847.5 | 2079.9 | 2628.5 | 3480.1 | 4478.7 | 5531.2 | 5753.4 | 5716.2 | 5209.5 |
| 50° | 1320.3 | 1350.0 | 1654.1 | 1940.4 | 2425.8 | 3403.0 | 4624.7 | 5852.9 | 6042.6 | 6007.3 | 5442.0 |
| 52.5° | 1198.5 | 1211.5 | 1306.3 | 1780.5 | 2214.7 | 3250.5 | 4715.8 | 6117.9 | 6324.3 | 6289.0 | 5661.4 |
| 55° | 1124.1 | 1133.4 | 1186.4 | 1454.2 | 2035.3 | 3005.0 | 4727.0 | 6393.1 | 6561.4 | 6514.9 | 5894.8 |
| 57.5° | 1047.9 | 1058.1 | 1116.7 | 1254.3 | 1854.9 | 2621.0 | 4608.9 | 6626.5 | 6753.9 | 6703.7 | 6117.9 |
| 60° | 983.7 | 989.3 | 1046.9 | 1141.8 | 1651.3 | 2239.8 | 4304.8 | 6785.5 | 6931.4 | 6866.4 | 6336.4 |
| 62.5° | 925.1 | 932.6 | 974.4 | 1060.9 | 1480.2 | 1954.4 | 3880.9 | 6786.4 | 7029.1 | 6989.1 | 6447.0 |
| 65° | 848.9 | 860.0 | 900.9 | 979.0 | 1341.7 | 1759.1 | 3442.0 | 6668.3 | 7046.7 | 6987.2 | 6441.5 |
| 67.5° | 760.6 | 774.5 | 811.7 | 874.0 | 1157.6 | 1550.9 | 2830.2 | 6513.0 | 6701.8 | 6691.6 | 6175.5 |
| 70° | 672.2 | 672.2 | 714.1 | 764.3 | 960.5 | 1327.7 | 2236.1 | 5959.8 | 6175.5 | 6191.3 | 5698.6 |
| 72.5° | 567.2 | 569.0 | 601.6 | 645.3 | 773.6 | 1089.7 | 1629.0 | 5095.1 | 5757.1 | 5565.6 | 5139.8 |
| 75° | 476.0 | 474.2 | 507.7 | 543.9 | 629.5 | 858.2 | 1062.7 | 3743.3 | 5261.6 | 5304.3 | 4523.3 |
| 77.5° | 252.9 | 243.6 | 286.4 | 315.2 | 369.1 | 477.0 | 589.5 | 1877.2 | 3810.2 | 3893.9 | 3621.5 |
| 80° | 71.6 | 72.5 | 189.7 | 212.0 | 242.7 | 236.2 | 273.4 | 715.9 | 1507.2 | 1698.7 | 2111.5 |
| 82.5° | 42.8 | 49.3 | 107.9 | 126.4 | 94.8 | 61.4 | 104.1 | 397.9 | 780.1 | 874.0 | 1047.9 |
| 85° | 22.3 | 24.2 | 38.1 | 47.4 | 36.3 | 30.7 | 31.6 | 167.4 | 379.3 | 385.9 | 418.4 |
| 87.5° | 10.2 | 10.2 | 13.9 | 14.9 | 9.3 | 5.6 | 3.7 | 2.8 | 2.8 | 1.9 | 1.9 |
| 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):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1872.6 | 1872.6 | 1872.6 | 1872.6 | 1872.6 | 1872.6 | 1872.6 | 1872.6 | 1872.6 | 1872.6 | 1872.6 |
| 2.5° | 1845.6 | 1854.9 | 1839.1 | 1827.0 | 1817.7 | 1812.1 | 1805.6 | 1789.8 | 1794.5 | 1801.0 | 1800.0 |
| 5° | 1854.9 | 1859.5 | 1831.6 | 1793.5 | 1758.2 | 1733.1 | 1716.4 | 1691.3 | 1691.3 | 1701.5 | 1701.5 |
| 7.5° | 1863.3 | 1856.8 | 1800.0 | 1735.9 | 1695.9 | 1675.4 | 1648.5 | 1621.5 | 1616.9 | 1624.3 | 1625.2 |
| 10° | 1867.9 | 1840.0 | 1761.0 | 1701.5 | 1649.4 | 1607.6 | 1573.2 | 1542.5 | 1541.6 | 1551.8 | 1553.6 |
| 12.5° | 1888.4 | 1834.4 | 1758.2 | 1676.4 | 1598.3 | 1553.6 | 1512.7 | 1478.3 | 1466.2 | 1467.2 | 1469.0 |
| 15° | 1920.0 | 1856.8 | 1754.5 | 1642.0 | 1557.4 | 1497.9 | 1438.4 | 1394.7 | 1383.5 | 1398.4 | 1404.0 |
| 17.5° | 1958.1 | 1893.0 | 1736.8 | 1610.4 | 1507.2 | 1435.6 | 1376.1 | 1337.0 | 1301.7 | 1285.9 | 1283.1 |
| 20° | 2008.3 | 1923.7 | 1746.1 | 1563.9 | 1458.8 | 1363.0 | 1288.7 | 1241.2 | 1211.5 | 1209.6 | 1207.8 |
| 22.5° | 2074.3 | 1958.1 | 1748.0 | 1533.2 | 1382.6 | 1283.1 | 1191.0 | 1164.1 | 1111.1 | 1091.6 | 1099.9 |
| 25° | 2161.7 | 2010.2 | 1743.3 | 1500.7 | 1324.0 | 1190.1 | 1079.5 | 1030.2 | 1010.7 | 988.3 | 990.2 |
| 27.5° | 2274.2 | 2092.9 | 1755.4 | 1457.9 | 1228.2 | 1076.7 | 953.0 | 900.0 | 870.3 | 851.7 | 854.5 |
| 30° | 2502.9 | 2218.4 | 1754.5 | 1417.0 | 1139.9 | 959.5 | 820.1 | 784.7 | 755.0 | 738.2 | 746.6 |
| 32.5° | 2828.4 | 2490.9 | 1793.5 | 1362.1 | 1039.5 | 802.4 | 708.5 | 668.5 | 643.4 | 624.8 | 629.5 |
| 35° | 3231.0 | 2787.5 | 1893.9 | 1287.7 | 925.1 | 682.5 | 618.3 | 569.0 | 538.3 | 530.9 | 528.1 |
| 37.5° | 3604.7 | 3049.7 | 1988.8 | 1238.5 | 794.0 | 616.4 | 535.5 | 486.3 | 459.3 | 468.6 | 468.6 |
| 40° | 3938.5 | 3397.4 | 2095.7 | 1159.4 | 675.0 | 541.1 | 443.5 | 421.2 | 407.2 | 423.0 | 428.6 |
| 42.5° | 4190.5 | 3731.2 | 2240.7 | 1055.3 | 578.3 | 451.9 | 379.3 | 395.2 | 400.7 | 411.9 | 409.1 |
| 45° | 4502.9 | 3921.8 | 2383.9 | 958.6 | 493.7 | 376.6 | 366.3 | 398.9 | 411.9 | 422.1 | 417.5 |
| 47.5° | 4790.2 | 4069.6 | 2355.1 | 780.1 | 415.6 | 364.5 | 372.8 | 398.9 | 421.2 | 437.9 | 435.1 |
| 50° | 5037.5 | 4254.6 | 2300.3 | 606.2 | 398.9 | 375.6 | 379.3 | 388.6 | 422.1 | 433.3 | 433.3 |
| 52.5° | 5191.8 | 4437.8 | 2232.4 | 490.0 | 411.0 | 389.6 | 383.1 | 382.1 | 404.5 | 412.8 | 405.4 |
| 55° | 5377.8 | 4627.5 | 2056.7 | 454.7 | 415.6 | 398.9 | 393.3 | 384.9 | 391.4 | 384.9 | 388.6 |
| 57.5° | 5584.2 | 4814.4 | 1787.0 | 444.4 | 412.8 | 396.1 | 425.8 | 381.2 | 377.5 | 354.2 | 348.7 |
| 60° | 5765.5 | 4887.8 | 1550.9 | 421.2 | 397.9 | 388.6 | 396.1 | 376.6 | 358.0 | 327.3 | 315.2 |
| 62.5° | 5833.4 | 4881.3 | 1311.0 | 397.0 | 375.6 | 377.5 | 376.6 | 362.6 | 345.9 | 315.2 | 307.8 |
| 65° | 5751.6 | 4732.5 | 1062.7 | 368.2 | 358.0 | 365.4 | 356.1 | 335.6 | 307.8 | 282.7 | 276.1 |
| 67.5° | 5474.5 | 4353.2 | 789.4 | 330.1 | 329.1 | 343.1 | 336.6 | 308.7 | 278.0 | 258.5 | 258.5 |
| 70° | 4944.5 | 3886.4 | 511.4 | 274.3 | 294.7 | 318.9 | 318.9 | 289.2 | 249.2 | 232.4 | 237.1 |
| 72.5° | 4364.3 | 3344.4 | 331.0 | 203.6 | 232.4 | 289.2 | 287.3 | 266.8 | 229.7 | 208.3 | 209.2 |
| 75° | 3780.5 | 2653.6 | 213.8 | 140.4 | 150.6 | 246.4 | 254.8 | 217.6 | 178.5 | 152.5 | 147.8 |
| 77.5° | 2873.9 | 1996.2 | 135.7 | 81.8 | 95.8 | 150.6 | 193.4 | 181.3 | 182.2 | 222.2 | 220.4 |
| 80° | 1767.5 | 1203.1 | 98.6 | 40.0 | 47.4 | 98.6 | 156.2 | 172.9 | 242.7 | 159.9 | 146.9 |
| 82.5° | 885.1 | 562.5 | 52.1 | 24.2 | 27.0 | 43.7 | 93.0 | 207.3 | 176.7 | 106.0 | 100.4 |
| 85° | 331.0 | 151.6 | 15.8 | 12.1 | 14.9 | 22.3 | 38.1 | 189.7 | 112.5 | 84.6 | 82.7 |
| 87.5° | 1.9 | 2.8 | 2.8 | 3.7 | 5.6 | 6.5 | 13.9 | 90.2 | 56.7 | 40.9 | 39.1 |
| 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)