

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: P233933

Luminaire Tested: **VERD-G-C028-D-U-T3-7030-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P233933
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1710-389-33)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-G-C028-D-U-T3-7030-HSS
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 885mA LEDS AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12213 lumens
Efficiency: N/A
Efficacy: 118.6 lumens/watt
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')
IES Classification: Type III - Medium - Semi-Cutoff
BUG Rating: B2 - U0 - G2

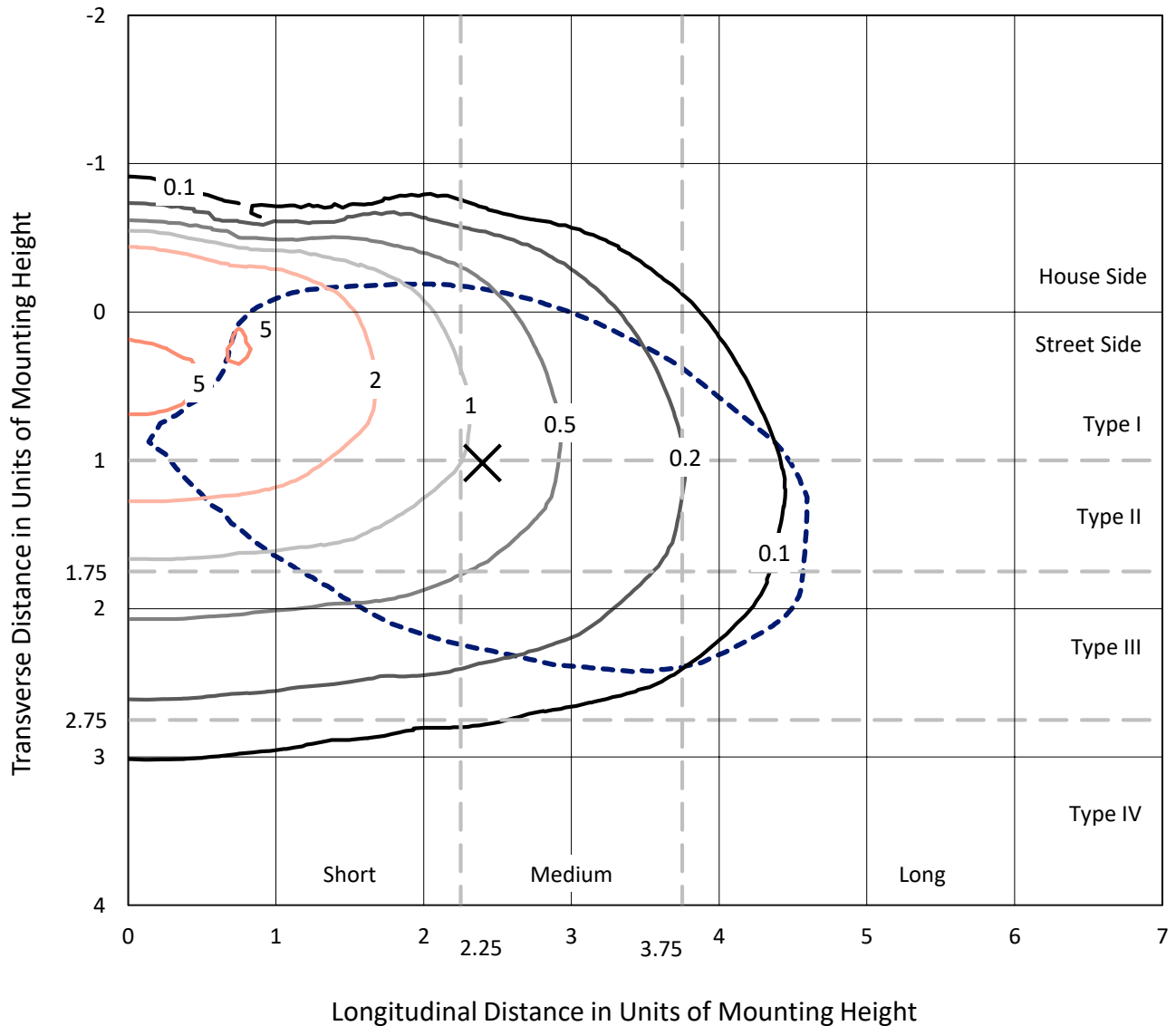
Input Watts (W): 103
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

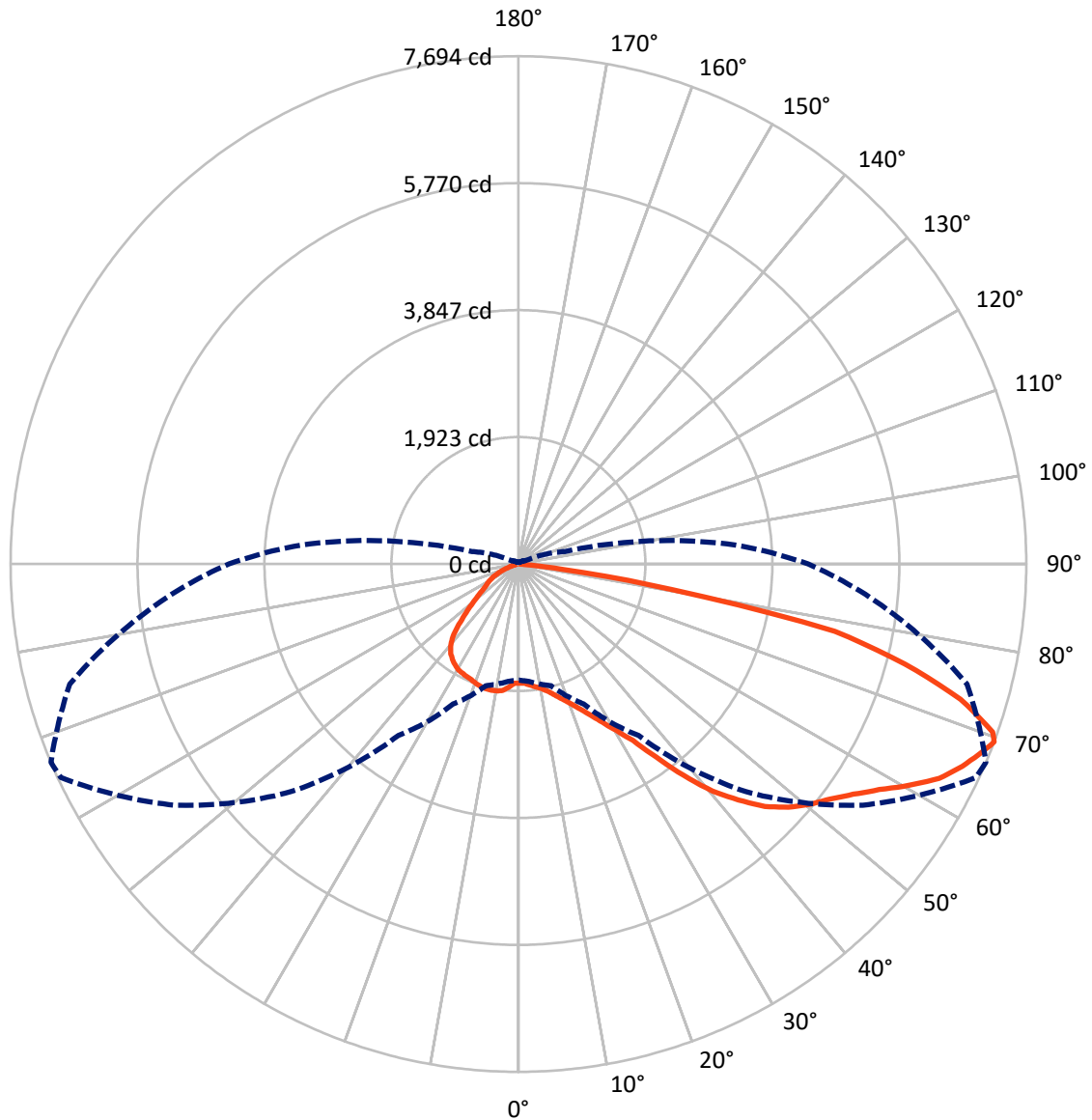


Based on 20 foot mounting height. Maximum calculated value = 5.5 fc
 Type III - Medium - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2201.7 | 0.0 | 2201.7 |
| | % Fixture | 18.0 | 0.0 | 18.0 |
| Street Side | Lumens | 10011.3 | 0.0 | 10011.3 |
| | % Fixture | 82.0 | 0.0 | 82.0 |
| Total | Lumens | 12213.0 | 0.0 | 12213.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 182.3 | 1.5 |
| 10°-20° | 573.3 | 4.7 |
| 20°-30° | 978.6 | 8.0 |
| 30°-40° | 1479.7 | 12.1 |
| 40°-50° | 2090.3 | 17.1 |
| 50°-60° | 2526.2 | 20.7 |
| 60°-70° | 2665.6 | 21.8 |
| 70°-80° | 1604.7 | 13.1 |
| 80°-90° | 112.2 | 0.9 |
| 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° | 12213.0 | 100.0 |
| 0°-180° | 12213.0 | 100.0 |

Coefficient of Utilization



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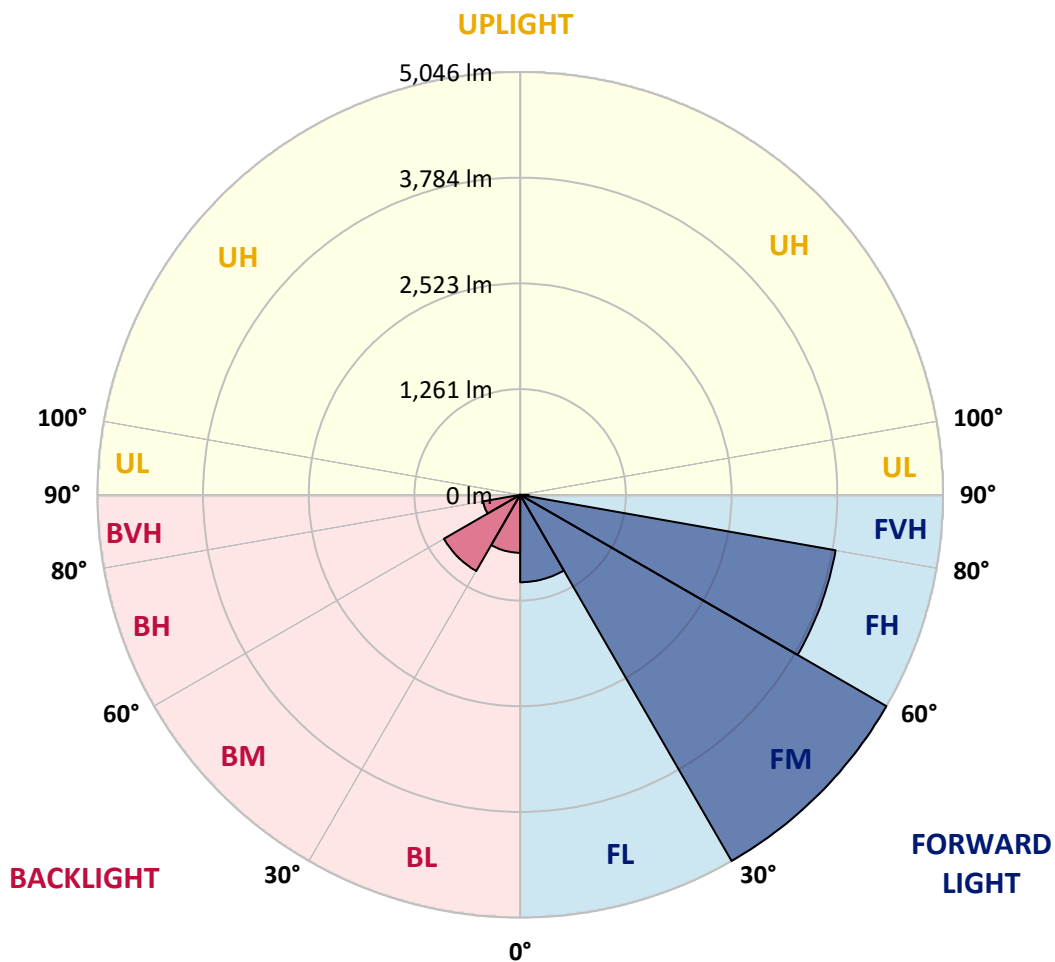
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 1042.9 | 8.5 | | | |
| FM | (30°-60°) | 5045.8 | 41.3 | | | |
| FH | (60°-80°) | 3821.5 | 31.3 | | | G2/5000 |
| FVH | (80°-90°) | 101.3 | 0.8 | | | G2/225 |
| BL | (0°-30°) | 691.4 | 5.7 | B2/1000 | | |
| BM | (30°-60°) | 1050.5 | 8.6 | B2/2500 | | |
| BH | (60°-80°) | 448.9 | 3.7 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 10.9 | 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-G2

Type III Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 67° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1806.1 | 1806.1 | 1806.1 | 1806.1 | 1806.1 | 1806.1 | 1806.1 | 1806.1 | 1806.1 | 1806.1 | 1806.1 |
| 2.5° | 1852.8 | 1849.9 | 1849.9 | 1833.4 | 1817.8 | 1813.9 | 1812.9 | 1808.1 | 1809.0 | 1802.2 | 1795.4 |
| 5° | 1906.4 | 1906.4 | 1904.4 | 1883.0 | 1866.5 | 1855.7 | 1848.9 | 1840.2 | 1841.2 | 1836.3 | 1830.4 |
| 7.5° | 1987.1 | 1988.1 | 1984.2 | 1956.0 | 1939.4 | 1913.2 | 1897.6 | 1881.0 | 1880.1 | 1874.2 | 1876.2 |
| 10° | 2086.4 | 2089.3 | 2083.5 | 2047.5 | 2019.2 | 1983.2 | 1950.1 | 1920.9 | 1919.0 | 1912.2 | 1918.0 |
| 12.5° | 2198.3 | 2202.2 | 2187.6 | 2150.6 | 2118.5 | 2062.1 | 2022.2 | 1983.2 | 1977.4 | 1976.4 | 1980.3 |
| 15° | 2326.7 | 2328.7 | 2323.8 | 2269.3 | 2230.4 | 2178.8 | 2113.6 | 2064.0 | 2058.2 | 2059.1 | 2054.3 |
| 17.5° | 2469.8 | 2474.7 | 2464.0 | 2415.3 | 2363.7 | 2292.7 | 2214.8 | 2153.5 | 2150.6 | 2147.7 | 2126.3 |
| 20° | 2621.6 | 2626.5 | 2619.7 | 2573.9 | 2512.6 | 2423.1 | 2327.7 | 2257.6 | 2256.7 | 2249.9 | 2200.2 |
| 22.5° | 2792.9 | 2799.7 | 2795.8 | 2740.3 | 2675.1 | 2577.8 | 2459.1 | 2386.1 | 2384.2 | 2362.7 | 2287.8 |
| 25° | 2978.7 | 2976.8 | 2980.7 | 2921.3 | 2860.0 | 2757.8 | 2610.9 | 2535.0 | 2535.0 | 2508.7 | 2397.8 |
| 27.5° | 3158.8 | 3157.8 | 3164.6 | 3122.8 | 3058.5 | 2962.2 | 2785.1 | 2708.2 | 2715.0 | 2677.1 | 2530.1 |
| 30° | 3333.9 | 3333.9 | 3350.5 | 3323.2 | 3275.5 | 3174.3 | 3001.1 | 2920.3 | 2929.1 | 2889.2 | 2697.5 |
| 32.5° | 3497.4 | 3505.2 | 3533.4 | 3516.9 | 3480.9 | 3389.4 | 3241.5 | 3167.5 | 3188.0 | 3204.5 | 3008.9 |
| 35° | 3618.1 | 3625.9 | 3691.1 | 3696.9 | 3688.1 | 3626.8 | 3516.9 | 3564.6 | 3588.9 | 3719.3 | 3501.3 |
| 37.5° | 3724.1 | 3733.9 | 3811.7 | 3860.4 | 3888.6 | 3850.7 | 3857.5 | 4017.1 | 4062.8 | 4216.5 | 3921.7 |
| 40° | 3802.0 | 3823.4 | 3900.3 | 3967.4 | 4066.7 | 4111.4 | 4222.4 | 4449.1 | 4523.1 | 4584.4 | 4210.7 |
| 42.5° | 3748.5 | 3763.1 | 3898.3 | 4078.4 | 4223.4 | 4381.0 | 4561.0 | 4830.6 | 4886.1 | 4866.6 | 4465.7 |
| 45° | 3669.7 | 3687.2 | 3829.2 | 4107.6 | 4347.9 | 4662.2 | 4882.2 | 5174.1 | 5237.4 | 5129.3 | 4685.6 |
| 47.5° | 3581.1 | 3605.4 | 3759.2 | 4068.6 | 4452.0 | 4921.1 | 5173.1 | 5469.0 | 5505.9 | 5363.9 | 4870.5 |
| 50° | 3491.6 | 3518.8 | 3693.0 | 4036.5 | 4532.8 | 5137.1 | 5385.3 | 5709.3 | 5720.0 | 5558.5 | 5036.9 |
| 52.5° | 3370.9 | 3399.1 | 3589.9 | 3969.4 | 4589.3 | 5279.2 | 5571.1 | 5906.9 | 5913.7 | 5768.7 | 5194.5 |
| 55° | 3218.1 | 3254.1 | 3455.6 | 3870.1 | 4602.9 | 5361.9 | 5688.9 | 6112.2 | 6157.9 | 5996.4 | 5324.0 |
| 57.5° | 3038.1 | 3071.2 | 3293.1 | 3727.1 | 4534.8 | 5390.1 | 5853.3 | 6383.7 | 6446.9 | 6227.0 | 5431.0 |
| 60° | 2830.8 | 2868.8 | 3091.6 | 3542.2 | 4397.5 | 5469.0 | 6125.8 | 6767.1 | 6805.1 | 6468.4 | 5525.4 |
| 62.5° | 2618.7 | 2645.9 | 2848.3 | 3282.3 | 4183.5 | 5516.6 | 6367.2 | 7127.2 | 7152.5 | 6700.9 | 5581.8 |
| 65° | 2317.0 | 2351.1 | 2548.6 | 2984.6 | 3875.0 | 5425.2 | 6459.6 | 7373.4 | 7388.9 | 6895.6 | 5554.6 |
| 67.5° | 1989.1 | 2016.3 | 2160.3 | 2625.5 | 3470.2 | 5135.2 | 6421.6 | 7537.8 | 7587.4 | 7047.4 | 5431.0 |
| 69° | 1756.5 | 1783.7 | 1908.3 | 2338.4 | 3169.5 | 4878.3 | 6368.1 | 7649.7 | 7693.5 | 7036.7 | 5273.4 |
| 70° | 1575.5 | 1602.7 | 1720.5 | 2124.3 | 2934.0 | 4661.3 | 6283.5 | 7593.3 | 7621.5 | 6917.0 | 5119.6 |
| 72.5° | 1126.9 | 1154.1 | 1250.5 | 1493.7 | 2222.6 | 3831.2 | 5758.9 | 6966.6 | 7004.5 | 6341.9 | 4575.6 |
| 75° | 589.7 | 654.9 | 828.1 | 965.3 | 1316.6 | 2697.5 | 4787.8 | 5991.5 | 6047.0 | 5565.3 | 3763.1 |
| 77.5° | 75.9 | 79.8 | 233.5 | 392.2 | 544.0 | 1137.6 | 3401.1 | 4811.1 | 4898.7 | 4454.0 | 2602.1 |
| 80° | 61.3 | 62.3 | 80.8 | 195.6 | 270.5 | 461.3 | 1206.7 | 2251.8 | 2357.9 | 1979.3 | 956.6 |
| 82.5° | 42.8 | 44.8 | 63.3 | 103.2 | 88.6 | 168.4 | 419.4 | 636.4 | 655.9 | 567.3 | 381.5 |
| 85° | 24.3 | 24.3 | 30.2 | 39.9 | 28.2 | 63.3 | 86.6 | 92.4 | 82.7 | 81.7 | 61.3 |
| 87.5° | 6.8 | 7.8 | 8.8 | 6.8 | 2.9 | 2.9 | 3.9 | 3.9 | 3.9 | 2.9 | 2.9 |
| 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° | 1806.1 | 1806.1 | 1806.1 | 1806.1 | 1806.1 | 1806.1 | 1806.1 | 1806.1 | 1806.1 | 1806.1 | 1806.1 |
| 2.5° | 1806.1 | 1804.2 | 1805.1 | 1809.0 | 1814.9 | 1836.3 | 1850.9 | 1852.8 | 1859.6 | 1884.9 | 1882.0 |
| 5° | 1837.3 | 1848.9 | 1855.7 | 1876.2 | 1889.8 | 1919.0 | 1936.5 | 1938.5 | 1948.2 | 1974.5 | 1975.4 |
| 7.5° | 1881.0 | 1900.5 | 1910.2 | 1933.6 | 1938.5 | 1952.1 | 1957.0 | 1952.1 | 1953.1 | 1976.4 | 1978.4 |
| 10° | 1919.0 | 1943.3 | 1943.3 | 1949.2 | 1940.4 | 1941.4 | 1925.8 | 1911.2 | 1903.4 | 1923.9 | 1928.7 |
| 12.5° | 1977.4 | 1984.2 | 1968.6 | 1951.1 | 1924.8 | 1901.5 | 1875.2 | 1851.9 | 1833.4 | 1845.0 | 1838.2 |
| 15° | 2037.7 | 2027.0 | 1989.1 | 1943.3 | 1896.6 | 1856.7 | 1802.2 | 1768.2 | 1736.1 | 1742.9 | 1737.0 |
| 17.5° | 2098.1 | 2063.0 | 2003.7 | 1927.8 | 1859.6 | 1783.7 | 1707.8 | 1654.3 | 1595.9 | 1591.1 | 1582.3 |
| 20° | 2156.4 | 2105.8 | 2007.6 | 1895.6 | 1800.3 | 1693.2 | 1575.5 | 1484.0 | 1397.4 | 1375.0 | 1360.4 |
| 22.5° | 2226.5 | 2153.5 | 2012.4 | 1864.5 | 1736.1 | 1590.1 | 1412.0 | 1269.9 | 1176.5 | 1145.4 | 1130.8 |
| 25° | 2316.0 | 2219.7 | 2026.0 | 1841.2 | 1670.9 | 1462.6 | 1218.4 | 1055.8 | 954.6 | 901.1 | 896.2 |
| 27.5° | 2422.1 | 2299.5 | 2049.4 | 1811.0 | 1578.4 | 1292.3 | 1017.9 | 848.6 | 740.5 | 686.1 | 668.5 |
| 30° | 2561.3 | 2398.8 | 2070.8 | 1787.6 | 1448.0 | 1106.4 | 807.7 | 618.9 | 490.5 | 455.4 | 436.9 |
| 32.5° | 2825.0 | 2560.3 | 2098.1 | 1733.1 | 1294.3 | 903.1 | 572.2 | 381.5 | 293.9 | 270.5 | 270.5 |
| 35° | 3254.1 | 2915.5 | 2166.2 | 1658.2 | 1109.4 | 657.8 | 343.5 | 214.1 | 175.2 | 161.5 | 154.7 |
| 37.5° | 3641.4 | 3273.6 | 2336.5 | 1542.4 | 884.6 | 389.2 | 196.6 | 132.3 | 119.7 | 121.6 | 121.6 |
| 40° | 3914.9 | 3518.8 | 2524.3 | 1385.7 | 600.4 | 208.2 | 124.6 | 106.1 | 108.0 | 109.0 | 109.0 |
| 42.5° | 4149.4 | 3728.0 | 2627.4 | 1199.9 | 327.0 | 135.3 | 107.0 | 96.3 | 99.3 | 98.3 | 97.3 |
| 45° | 4346.0 | 3898.3 | 2661.5 | 943.9 | 158.6 | 119.7 | 97.3 | 88.6 | 88.6 | 87.6 | 87.6 |
| 47.5° | 4514.3 | 4049.2 | 2598.2 | 701.6 | 128.5 | 110.0 | 92.4 | 81.7 | 80.8 | 85.6 | 85.6 |
| 50° | 4668.1 | 4165.9 | 2440.6 | 531.3 | 124.6 | 101.2 | 87.6 | 75.9 | 76.9 | 83.7 | 83.7 |
| 52.5° | 4796.5 | 4235.0 | 2207.0 | 398.0 | 115.8 | 93.4 | 80.8 | 71.0 | 71.0 | 77.8 | 77.8 |
| 55° | 4891.9 | 4235.0 | 2029.0 | 297.8 | 110.9 | 85.6 | 74.9 | 68.1 | 64.2 | 66.2 | 67.1 |
| 57.5° | 4939.6 | 4155.2 | 1885.9 | 241.3 | 105.1 | 77.8 | 69.1 | 59.4 | 52.5 | 54.5 | 53.5 |
| 60° | 4926.9 | 4109.5 | 1721.5 | 215.1 | 98.3 | 72.0 | 61.3 | 50.6 | 43.8 | 41.8 | 41.8 |
| 62.5° | 4903.6 | 4057.9 | 1516.1 | 186.8 | 91.5 | 67.1 | 50.6 | 40.9 | 37.0 | 35.0 | 36.0 |
| 65° | 4815.0 | 3890.6 | 1256.3 | 155.7 | 84.7 | 65.2 | 42.8 | 36.0 | 32.1 | 30.2 | 30.2 |
| 67.5° | 4600.9 | 3588.9 | 949.8 | 131.4 | 78.8 | 52.5 | 37.0 | 31.1 | 27.2 | 25.3 | 25.3 |
| 69° | 4388.8 | 3300.8 | 728.9 | 119.7 | 74.9 | 47.7 | 34.1 | 28.2 | 25.3 | 22.4 | 22.4 |
| 70° | 4205.8 | 3078.0 | 571.2 | 111.9 | 72.0 | 45.7 | 33.1 | 27.2 | 24.3 | 21.4 | 21.4 |
| 72.5° | 3581.1 | 2441.6 | 290.0 | 97.3 | 60.3 | 39.9 | 29.2 | 24.3 | 20.4 | 17.5 | 17.5 |
| 75° | 2778.3 | 1682.5 | 191.7 | 76.9 | 46.7 | 36.0 | 26.3 | 21.4 | 17.5 | 14.6 | 13.6 |
| 77.5° | 1671.8 | 657.8 | 137.2 | 49.6 | 30.2 | 28.2 | 21.4 | 17.5 | 14.6 | 11.7 | 11.7 |
| 80° | 461.3 | 282.2 | 92.4 | 33.1 | 17.5 | 18.5 | 15.6 | 12.7 | 10.7 | 8.8 | 8.8 |
| 82.5° | 277.3 | 182.9 | 61.3 | 21.4 | 11.7 | 11.7 | 8.8 | 8.8 | 6.8 | 6.8 | 6.8 |
| 85° | 47.7 | 37.0 | 14.6 | 8.8 | 6.8 | 6.8 | 4.9 | 2.9 | 2.9 | 2.9 | 2.9 |
| 87.5° | 2.9 | 2.9 | 2.9 | 3.9 | 3.9 | 2.9 | 1.9 | 1.0 | 0.0 | 0.0 | 0.0 |
| 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)