

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: P233471

Luminaire Tested: **VERD-C01H-D-U-T2-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P233471
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-C01H-D-U-T2-7030
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 1210mA LED AND TYPE II OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8659 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 II - Short - Non-Cutoff
BUG Rating: B2 - U0 - G2

Input Watts (W): 73
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

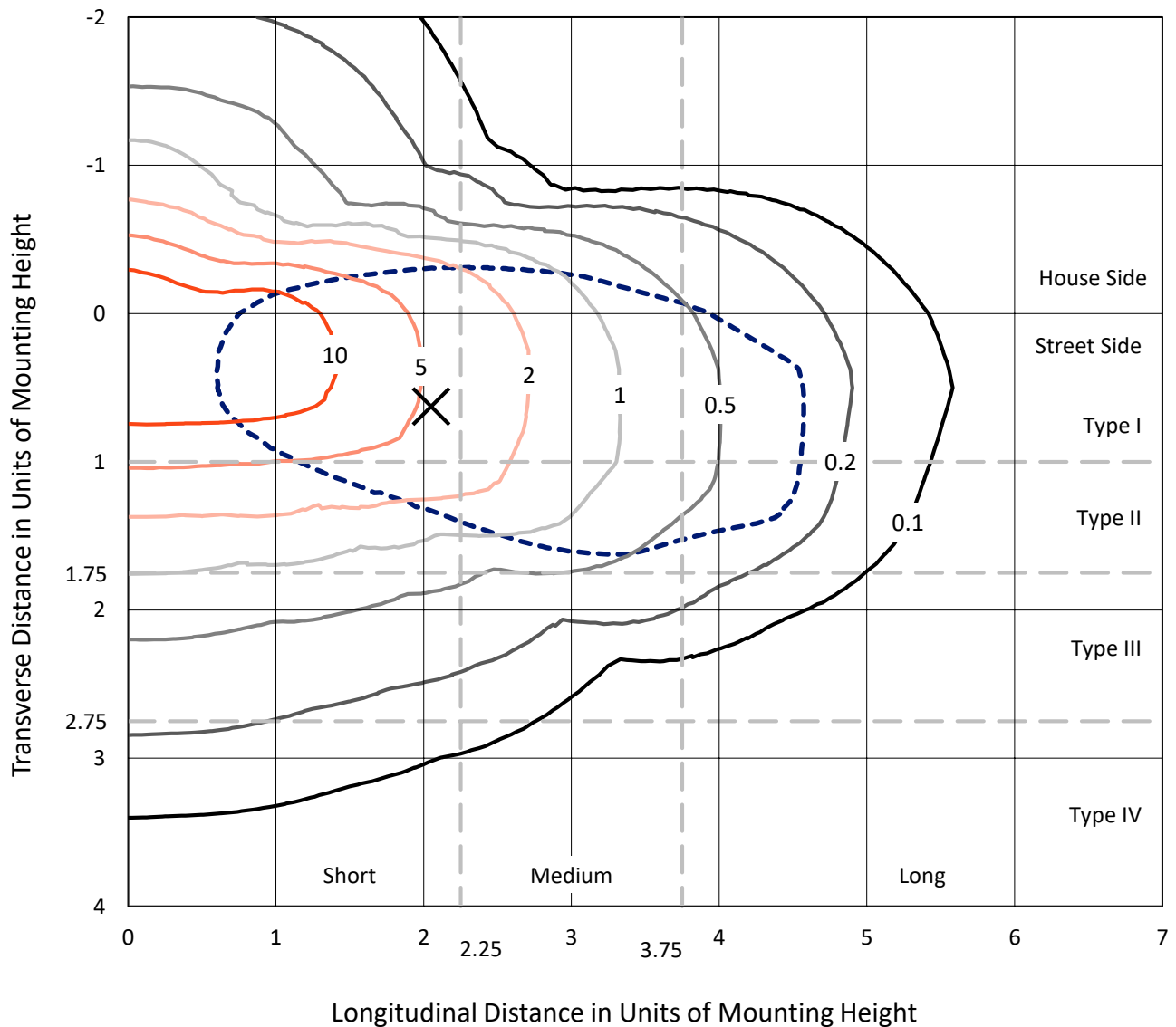


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

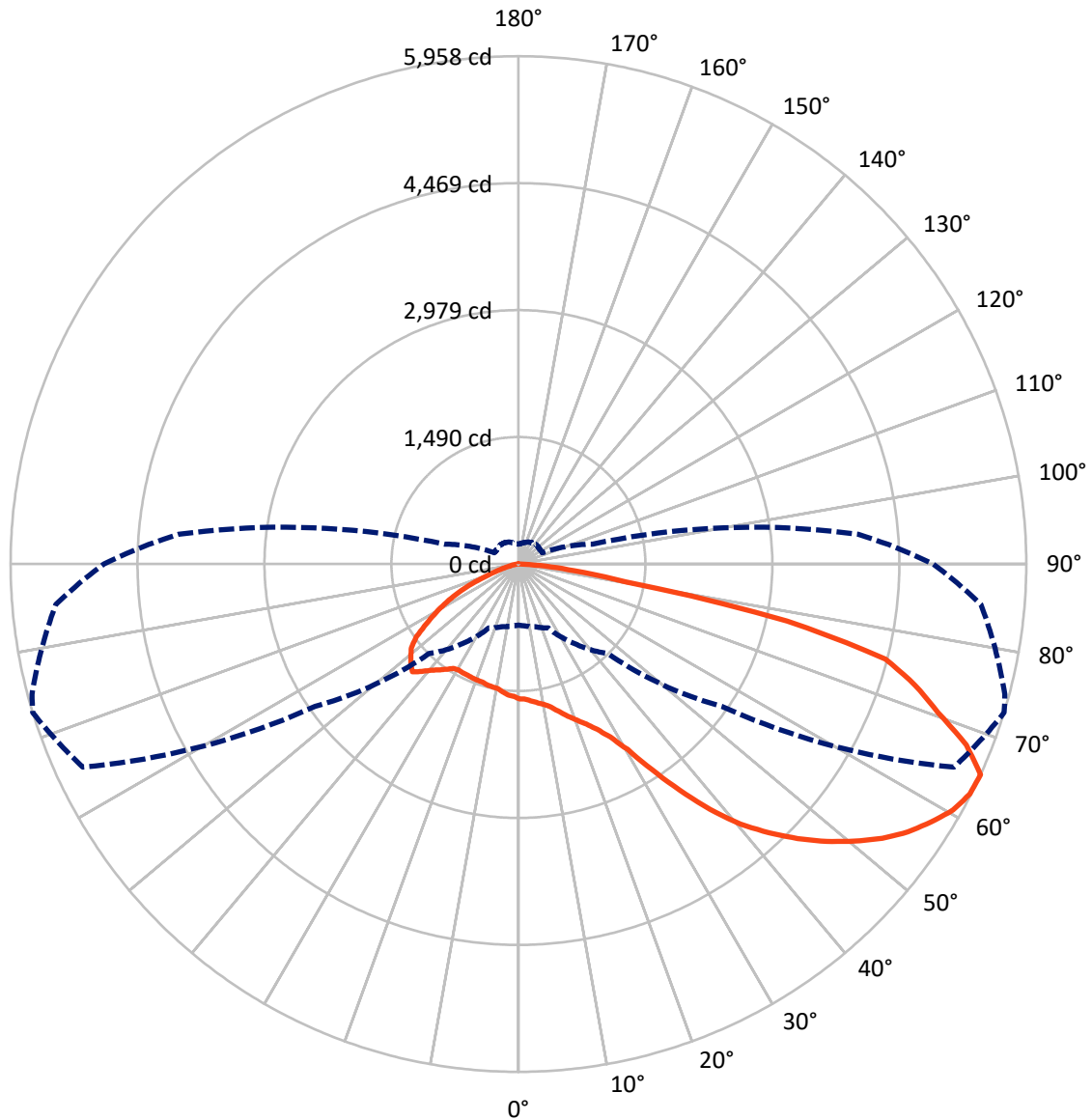


Based on 10 foot mounting height. Maximum calculated value = 18.4 fc
 Type II - Short - Non-Cutoff

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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 | 2219.7 | 0.0 | 2219.7 |
| | % Fixture | 25.6 | 0.0 | 25.6 |
| Street Side | Lumens | 6439.3 | 0.0 | 6439.3 |
| | % Fixture | 74.4 | 0.0 | 74.4 |
| Total | Lumens | 8659.0 | 0.0 | 8659.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 151.1 | 1.7 |
| 10°-20° | 456.8 | 5.3 |
| 20°-30° | 766.3 | 8.8 |
| 30°-40° | 1123.8 | 13.0 |
| 40°-50° | 1518.8 | 17.5 |
| 50°-60° | 1759.4 | 20.3 |
| 60°-70° | 1718.6 | 19.8 |
| 70°-80° | 1032.0 | 11.9 |
| 80°-90° | 132.2 | 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° | 8659.0 | 100.0 |
| 0°-180° | 8659.0 | 100.0 |



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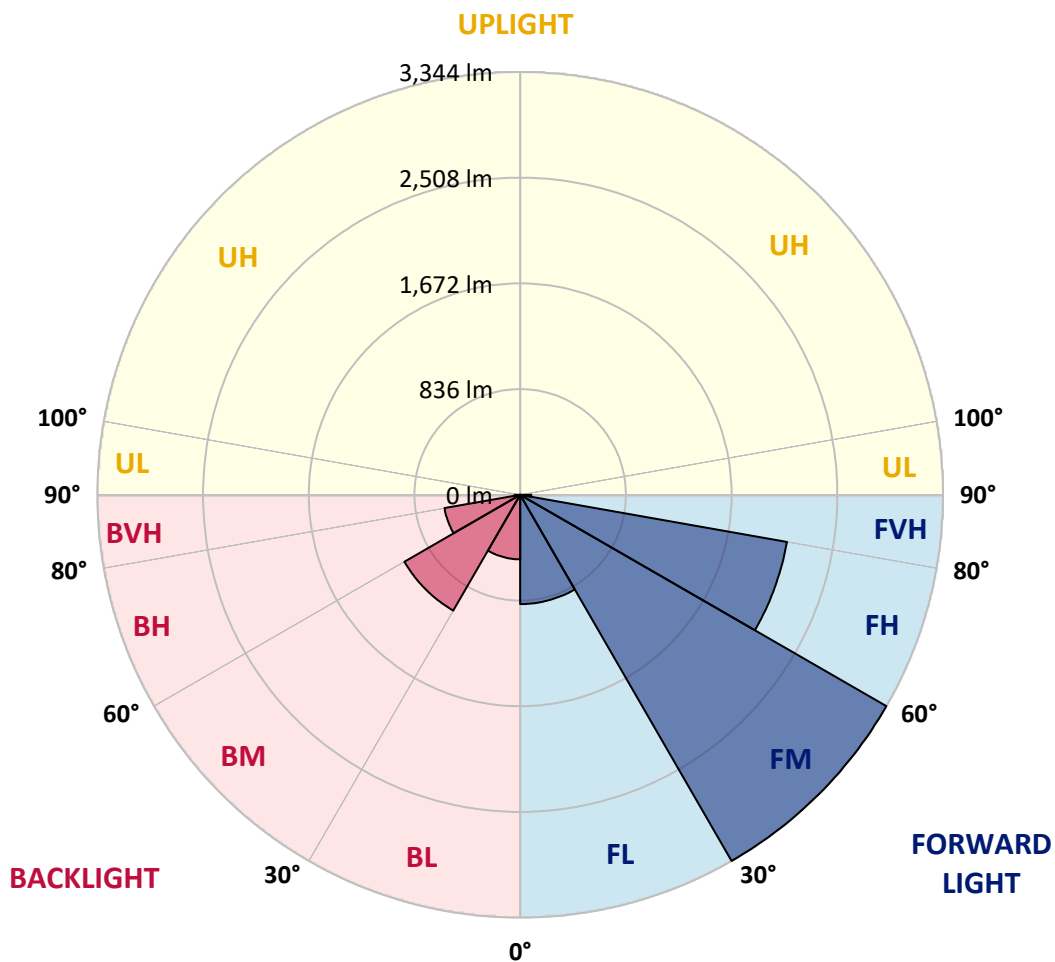
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 864.0 | 10.0 | | | |
| FM (30°-60°) | 3344.4 | 38.6 | | | |
| FH (60°-80°) | 2142.9 | 24.7 | | | G2/5000 |
| FVH (80°-90°) | 88.0 | 1.0 | | | G1/100 |
| BL (0°-30°) | 510.2 | 5.9 | B2/1000 | | |
| BM (30°-60°) | 1057.6 | 12.2 | B2/2500 | | |
| BH (60°-80°) | 607.8 | 7.0 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 44.2 | 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° | 1583.3 | 1583.3 | 1583.3 | 1583.3 | 1583.3 | 1583.3 | 1583.3 | 1583.3 | 1583.3 | 1583.3 | 1583.3 |
| 2.5° | 1680.8 | 1687.1 | 1680.0 | 1659.5 | 1649.3 | 1642.3 | 1621.0 | 1602.2 | 1587.2 | 1585.7 | 1571.5 |
| 5° | 1745.2 | 1754.7 | 1742.9 | 1716.9 | 1706.7 | 1691.8 | 1668.2 | 1642.3 | 1615.5 | 1610.0 | 1581.7 |
| 7.5° | 1827.0 | 1828.6 | 1822.3 | 1796.3 | 1775.1 | 1743.7 | 1702.8 | 1675.3 | 1644.6 | 1636.0 | 1591.2 |
| 10° | 1896.2 | 1895.4 | 1887.5 | 1862.4 | 1841.1 | 1813.6 | 1756.2 | 1711.4 | 1675.3 | 1664.3 | 1602.2 |
| 12.5° | 1962.2 | 1960.6 | 1952.8 | 1926.8 | 1900.1 | 1877.3 | 1834.1 | 1773.5 | 1724.8 | 1710.6 | 1633.6 |
| 15° | 2044.0 | 2040.0 | 2027.5 | 1992.9 | 1971.6 | 1944.9 | 1913.5 | 1852.9 | 1797.1 | 1777.5 | 1679.2 |
| 17.5° | 2106.9 | 2106.1 | 2096.6 | 2067.6 | 2042.4 | 2013.3 | 1984.2 | 1937.1 | 1876.5 | 1854.5 | 1724.0 |
| 20° | 2143.0 | 2139.9 | 2137.5 | 2114.7 | 2108.4 | 2092.7 | 2051.0 | 2014.9 | 1954.4 | 1931.6 | 1774.3 |
| 22.5° | 2181.5 | 2182.3 | 2183.1 | 2171.3 | 2189.4 | 2176.0 | 2145.4 | 2101.4 | 2040.0 | 2014.1 | 1845.1 |
| 25° | 2190.2 | 2191.8 | 2207.5 | 2233.4 | 2255.4 | 2279.8 | 2257.8 | 2214.6 | 2148.5 | 2121.0 | 1941.8 |
| 27.5° | 2165.8 | 2172.1 | 2219.3 | 2263.3 | 2341.1 | 2372.6 | 2368.6 | 2366.3 | 2298.7 | 2271.2 | 2074.6 |
| 30° | 2187.8 | 2187.8 | 2220.1 | 2295.5 | 2393.8 | 2476.4 | 2494.4 | 2544.7 | 2524.3 | 2504.7 | 2297.9 |
| 32.5° | 2121.8 | 2133.6 | 2191.0 | 2296.3 | 2452.0 | 2572.3 | 2654.0 | 2794.0 | 2874.9 | 2858.4 | 2613.9 |
| 35° | 1997.6 | 2013.3 | 2097.4 | 2258.6 | 2481.1 | 2685.5 | 2831.7 | 3101.3 | 3257.8 | 3277.4 | 2994.4 |
| 37.5° | 1901.7 | 1915.0 | 2020.4 | 2199.6 | 2492.1 | 2791.6 | 3036.9 | 3447.2 | 3649.3 | 3639.1 | 3316.7 |
| 40° | 1784.5 | 1808.1 | 1914.3 | 2129.7 | 2466.1 | 2882.0 | 3259.3 | 3764.8 | 4013.3 | 3966.1 | 3623.3 |
| 42.5° | 1679.2 | 1699.6 | 1788.5 | 2018.0 | 2430.0 | 2933.1 | 3460.6 | 4091.9 | 4309.6 | 4271.9 | 3913.4 |
| 45° | 1567.6 | 1585.7 | 1668.2 | 1884.4 | 2345.9 | 2958.3 | 3649.3 | 4404.8 | 4594.2 | 4551.8 | 4182.3 |
| 47.5° | 1439.4 | 1463.8 | 1562.1 | 1758.6 | 2222.4 | 2942.5 | 3786.9 | 4676.8 | 4864.7 | 4833.2 | 4404.8 |
| 50° | 1116.3 | 1141.5 | 1398.5 | 1640.7 | 2051.0 | 2877.3 | 3910.3 | 4948.8 | 5109.1 | 5079.3 | 4601.3 |
| 52.5° | 1013.3 | 1024.3 | 1104.5 | 1505.5 | 1872.6 | 2748.4 | 3987.3 | 5172.8 | 5347.3 | 5317.5 | 4786.8 |
| 55° | 950.4 | 958.3 | 1003.1 | 1229.5 | 1720.9 | 2540.8 | 3996.8 | 5405.5 | 5547.8 | 5508.5 | 4984.1 |
| 57.5° | 886.0 | 894.6 | 944.2 | 1060.5 | 1568.4 | 2216.1 | 3896.9 | 5602.8 | 5710.5 | 5668.1 | 5172.8 |
| 60° | 831.7 | 836.5 | 885.2 | 965.4 | 1396.2 | 1893.8 | 3639.8 | 5737.3 | 5860.7 | 5805.7 | 5357.6 |
| 62.5° | 782.2 | 788.5 | 823.9 | 897.0 | 1251.5 | 1652.5 | 3281.4 | 5738.1 | 5943.2 | 5909.4 | 5451.1 |
| 65° | 717.7 | 727.2 | 761.8 | 827.8 | 1134.4 | 1487.4 | 2910.3 | 5638.2 | 5958.2 | 5907.9 | 5446.4 |
| 67.5° | 643.1 | 654.9 | 686.3 | 739.0 | 978.7 | 1311.3 | 2393.0 | 5506.9 | 5666.5 | 5657.9 | 5221.6 |
| 70° | 568.4 | 568.4 | 603.8 | 646.2 | 812.1 | 1122.6 | 1890.7 | 5039.2 | 5221.6 | 5234.9 | 4818.3 |
| 72.5° | 479.5 | 481.1 | 508.6 | 545.6 | 654.1 | 921.4 | 1377.3 | 4308.1 | 4867.8 | 4705.9 | 4345.8 |
| 75° | 402.5 | 400.9 | 429.2 | 459.9 | 532.2 | 725.6 | 898.6 | 3165.0 | 4448.8 | 4484.9 | 3824.6 |
| 77.5° | 213.8 | 206.0 | 242.1 | 266.5 | 312.1 | 403.3 | 498.4 | 1587.2 | 3221.6 | 3292.4 | 3062.0 |
| 80° | 60.5 | 61.3 | 160.4 | 179.2 | 205.2 | 199.7 | 231.1 | 605.3 | 1274.3 | 1436.3 | 1785.3 |
| 82.5° | 36.2 | 41.7 | 91.2 | 106.9 | 80.2 | 51.9 | 88.0 | 336.5 | 659.6 | 739.0 | 886.0 |
| 85° | 18.9 | 20.4 | 32.2 | 40.1 | 30.7 | 25.9 | 26.7 | 141.5 | 320.7 | 326.2 | 353.8 |
| 87.5° | 8.6 | 8.6 | 11.8 | 12.6 | 7.9 | 4.7 | 3.1 | 2.4 | 2.4 | 1.6 | 1.6 |
| 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° | 1583.3 | 1583.3 | 1583.3 | 1583.3 | 1583.3 | 1583.3 | 1583.3 | 1583.3 | 1583.3 | 1583.3 | 1583.3 |
| 2.5° | 1560.5 | 1568.4 | 1555.0 | 1544.8 | 1536.9 | 1532.2 | 1526.7 | 1513.3 | 1517.3 | 1522.8 | 1522.0 |
| 5° | 1568.4 | 1572.3 | 1548.7 | 1516.5 | 1486.6 | 1465.4 | 1451.2 | 1430.0 | 1430.0 | 1438.6 | 1438.6 |
| 7.5° | 1575.4 | 1569.9 | 1522.0 | 1467.7 | 1433.9 | 1416.6 | 1393.8 | 1371.0 | 1367.1 | 1373.4 | 1374.2 |
| 10° | 1579.4 | 1555.8 | 1489.0 | 1438.6 | 1394.6 | 1359.2 | 1330.2 | 1304.2 | 1303.4 | 1312.1 | 1313.6 |
| 12.5° | 1596.7 | 1551.1 | 1486.6 | 1417.4 | 1351.4 | 1313.6 | 1279.1 | 1250.0 | 1239.7 | 1240.5 | 1242.1 |
| 15° | 1623.4 | 1569.9 | 1483.5 | 1388.3 | 1316.8 | 1266.5 | 1216.2 | 1179.2 | 1169.8 | 1182.4 | 1187.1 |
| 17.5° | 1655.6 | 1600.6 | 1468.5 | 1361.6 | 1274.3 | 1213.8 | 1163.5 | 1130.5 | 1100.6 | 1087.2 | 1084.9 |
| 20° | 1698.1 | 1626.5 | 1476.4 | 1322.3 | 1233.5 | 1152.5 | 1089.6 | 1049.5 | 1024.3 | 1022.8 | 1021.2 |
| 22.5° | 1753.9 | 1655.6 | 1477.9 | 1296.4 | 1169.0 | 1084.9 | 1007.0 | 984.3 | 939.4 | 922.9 | 930.0 |
| 25° | 1827.8 | 1699.6 | 1474.0 | 1268.8 | 1119.5 | 1006.3 | 912.7 | 871.0 | 854.5 | 835.7 | 837.2 |
| 27.5° | 1922.9 | 1769.6 | 1484.2 | 1232.7 | 1038.5 | 910.4 | 805.8 | 761.0 | 735.8 | 720.1 | 722.5 |
| 30° | 2116.3 | 1875.7 | 1483.5 | 1198.1 | 963.8 | 811.3 | 693.4 | 663.5 | 638.3 | 624.2 | 631.3 |
| 32.5° | 2391.4 | 2106.1 | 1516.5 | 1151.7 | 878.9 | 678.4 | 599.0 | 565.2 | 544.0 | 528.3 | 532.2 |
| 35° | 2731.8 | 2356.9 | 1601.4 | 1088.8 | 782.2 | 577.0 | 522.8 | 481.1 | 455.2 | 448.9 | 446.5 |
| 37.5° | 3047.9 | 2578.5 | 1681.6 | 1047.1 | 671.4 | 521.2 | 452.8 | 411.2 | 388.4 | 396.2 | 396.2 |
| 40° | 3330.1 | 2872.6 | 1772.0 | 980.3 | 570.7 | 457.5 | 375.0 | 356.1 | 344.3 | 357.7 | 362.4 |
| 42.5° | 3543.1 | 3154.8 | 1894.6 | 892.3 | 489.0 | 382.1 | 320.7 | 334.1 | 338.8 | 348.3 | 345.9 |
| 45° | 3807.3 | 3316.0 | 2015.7 | 810.5 | 417.4 | 318.4 | 309.7 | 337.3 | 348.3 | 356.9 | 353.0 |
| 47.5° | 4050.2 | 3440.9 | 1991.3 | 659.6 | 351.4 | 308.2 | 315.2 | 337.3 | 356.1 | 370.3 | 367.9 |
| 50° | 4259.3 | 3597.4 | 1944.9 | 512.6 | 337.3 | 317.6 | 320.7 | 328.6 | 356.9 | 366.3 | 366.3 |
| 52.5° | 4389.8 | 3752.3 | 1887.5 | 414.3 | 347.5 | 329.4 | 323.9 | 323.1 | 342.0 | 349.0 | 342.8 |
| 55° | 4547.1 | 3912.6 | 1738.9 | 384.4 | 351.4 | 337.3 | 332.5 | 325.5 | 331.0 | 325.5 | 328.6 |
| 57.5° | 4721.6 | 4070.6 | 1511.0 | 375.8 | 349.0 | 334.9 | 360.1 | 322.3 | 319.2 | 299.5 | 294.8 |
| 60° | 4874.9 | 4132.8 | 1311.3 | 356.1 | 336.5 | 328.6 | 334.9 | 318.4 | 302.7 | 276.7 | 266.5 |
| 62.5° | 4932.3 | 4127.3 | 1108.5 | 335.7 | 317.6 | 319.2 | 318.4 | 306.6 | 292.4 | 266.5 | 260.2 |
| 65° | 4863.1 | 4001.5 | 898.6 | 311.3 | 302.7 | 309.0 | 301.1 | 283.8 | 260.2 | 239.0 | 233.5 |
| 67.5° | 4628.8 | 3680.7 | 667.4 | 279.1 | 278.3 | 290.1 | 284.6 | 261.0 | 235.1 | 218.5 | 218.5 |
| 70° | 4180.7 | 3286.1 | 432.4 | 231.9 | 249.2 | 269.6 | 269.6 | 244.5 | 210.7 | 196.5 | 200.5 |
| 72.5° | 3690.2 | 2827.8 | 279.9 | 172.2 | 196.5 | 244.5 | 242.9 | 225.6 | 194.2 | 176.1 | 176.9 |
| 75° | 3196.5 | 2243.7 | 180.8 | 118.7 | 127.4 | 208.3 | 215.4 | 184.0 | 150.9 | 128.9 | 125.0 |
| 77.5° | 2430.0 | 1687.8 | 114.8 | 69.2 | 81.0 | 127.4 | 163.5 | 153.3 | 154.1 | 187.9 | 186.3 |
| 80° | 1494.5 | 1017.3 | 83.3 | 33.8 | 40.1 | 83.3 | 132.1 | 146.2 | 205.2 | 135.2 | 124.2 |
| 82.5° | 748.4 | 475.6 | 44.0 | 20.4 | 22.8 | 36.9 | 78.6 | 175.3 | 149.4 | 89.6 | 84.9 |
| 85° | 279.9 | 128.1 | 13.4 | 10.2 | 12.6 | 18.9 | 32.2 | 160.4 | 95.1 | 71.5 | 70.0 |
| 87.5° | 1.6 | 2.4 | 2.4 | 3.1 | 4.7 | 5.5 | 11.8 | 76.3 | 48.0 | 34.6 | 33.0 |
| 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)