

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: P507657

Luminaire Tested: **VERD-S-CA1-60-760-U-T2**

Issue Date: 3/30/2021

Test Information

Test Method: LM-79-08
Report Number: P507657
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2103-168-2)
Test Lab: INNOVATION CENTER
Issue Date: 3/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-S-CA1-60-760-U-T2
Description: VERDEON-S ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 5700K, 1150mA LED AND TYPE II OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8704 lumens
Efficiency: N/A
Efficacy: 137.5 lumens/watt
Luminous Opening: Rectangular (W 0.83' x L: 0.83' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

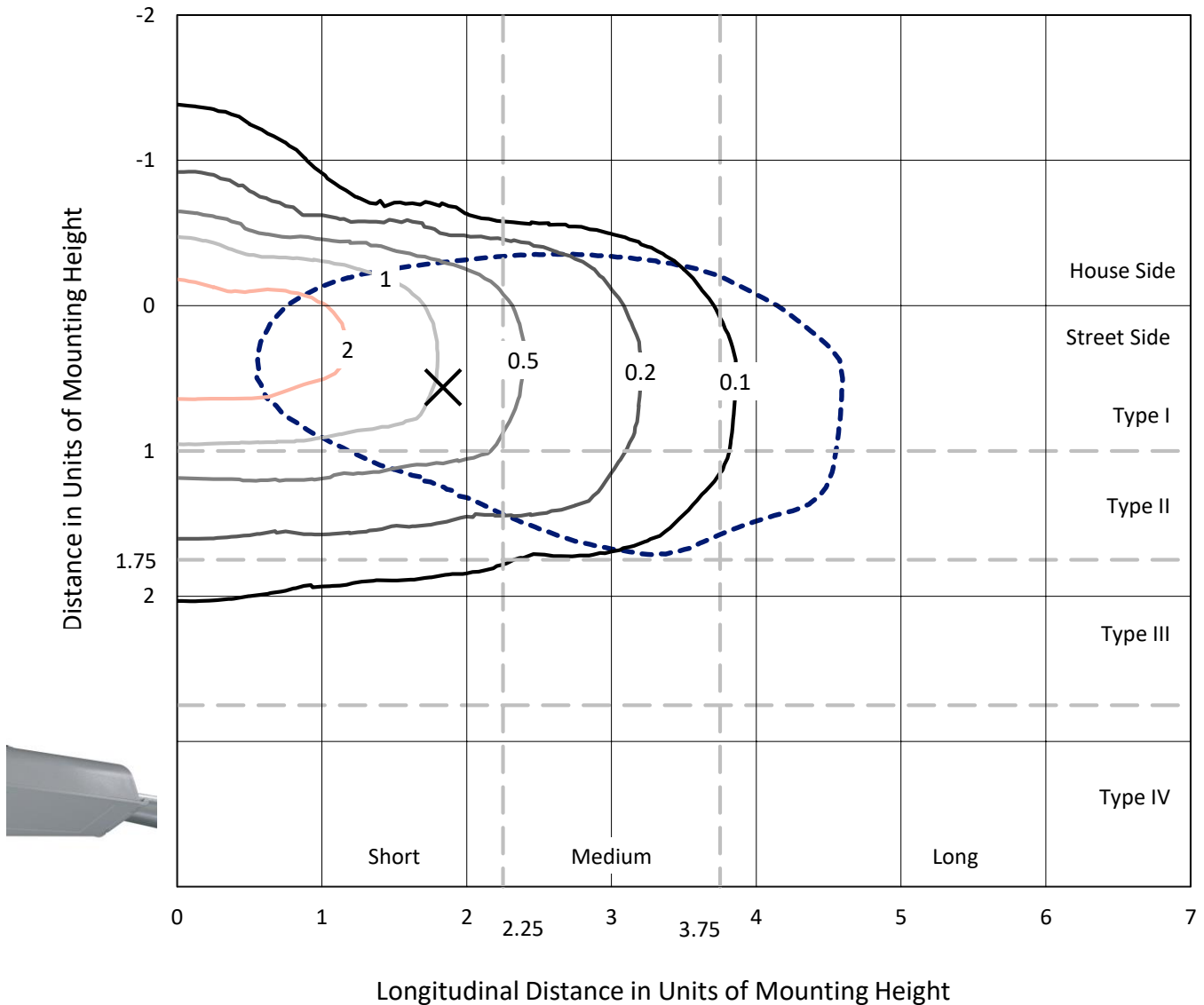
Input Watts (W): 63.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

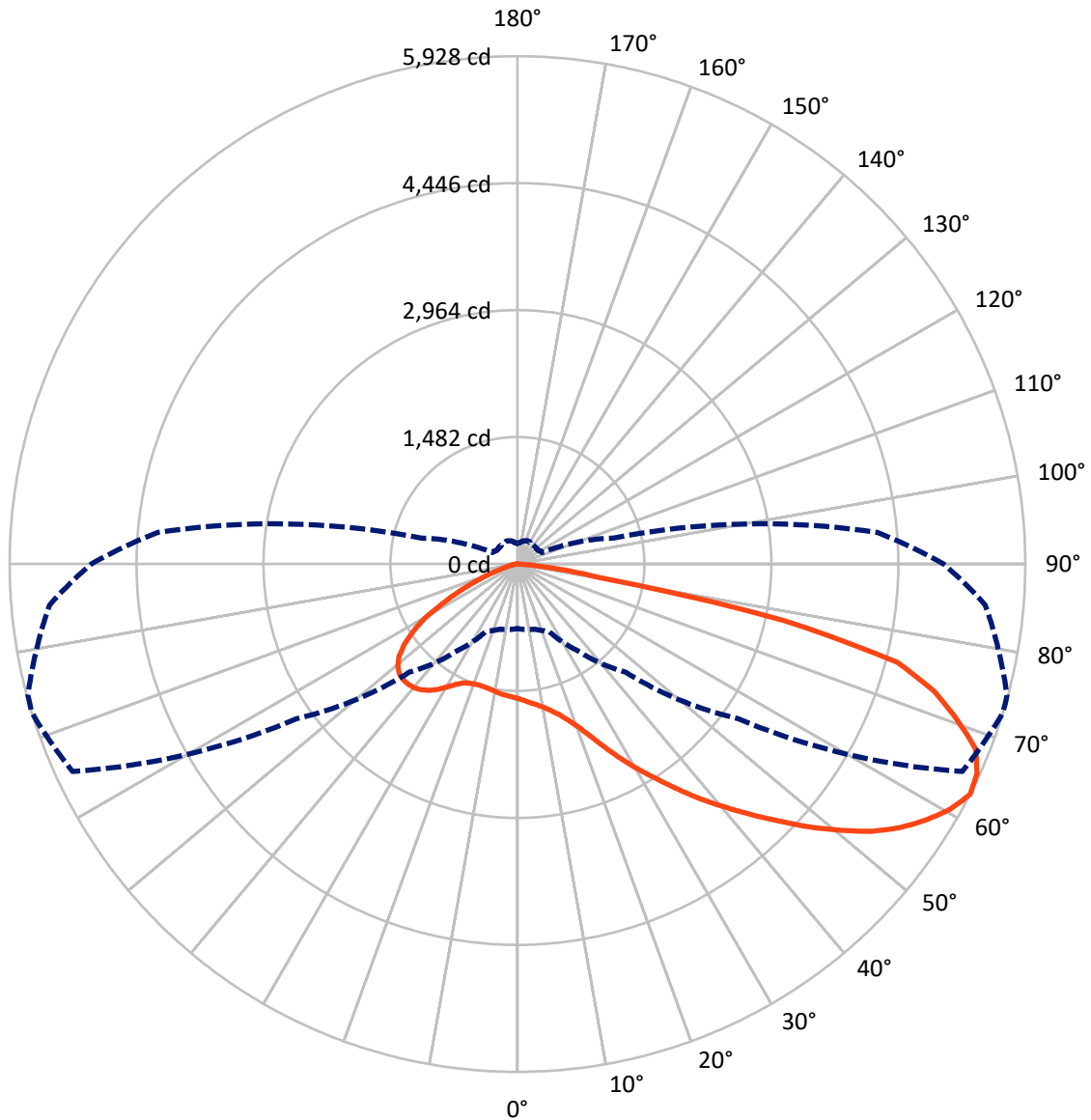
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 73-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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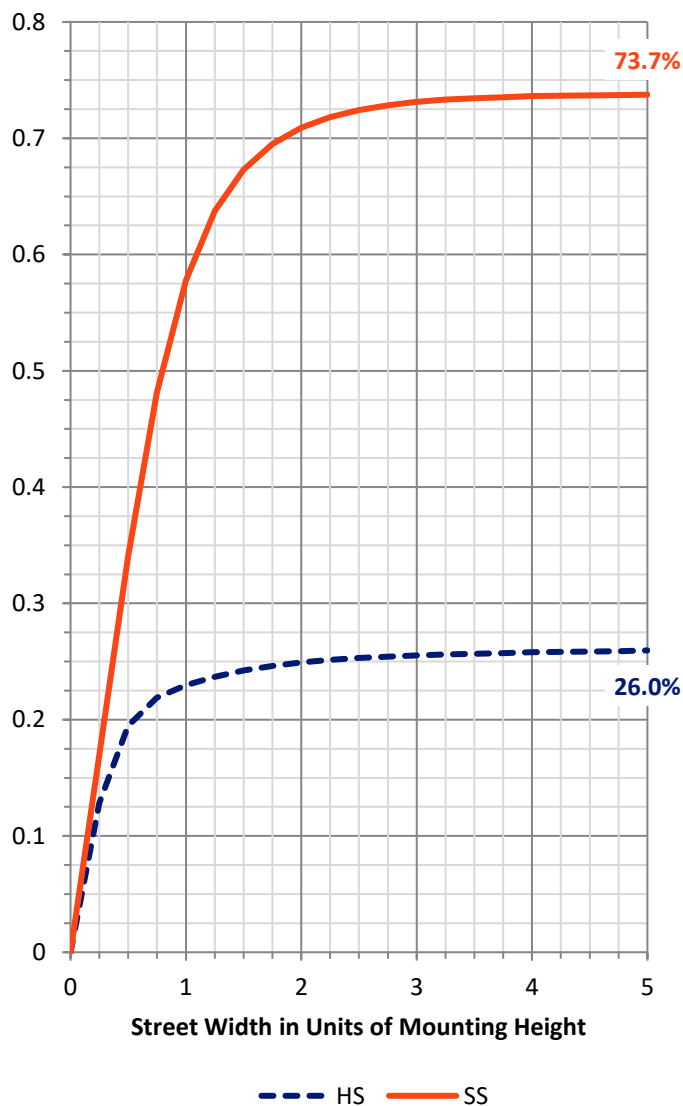
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 2292.8 | 0.0 | 2292.8 |
| | % Fixture | 26.3 | 0.0 | 26.3 |
| Street Side | Lumens | 6411.2 | 0.0 | 6411.2 |
| | % Fixture | 73.7 | 0.0 | 73.7 |
| Total | Lumens | 8704.0 | 0.0 | 8704.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 152.0 | 1.7 |
| 10°-20° | 464.4 | 5.3 |
| 20°-30° | 803.9 | 9.2 |
| 30°-40° | 1164.3 | 13.4 |
| 40°-50° | 1491.3 | 17.1 |
| 50°-60° | 1726.5 | 19.8 |
| 60°-70° | 1738.6 | 20.0 |
| 70°-80° | 1062.9 | 12.2 |
| 80°-90° | 100.1 | 1.1 |
| 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° | 8704.0 | 100.0 |
| 0°-180° | 8704.0 | 100.0 |

Coefficient of Utilization



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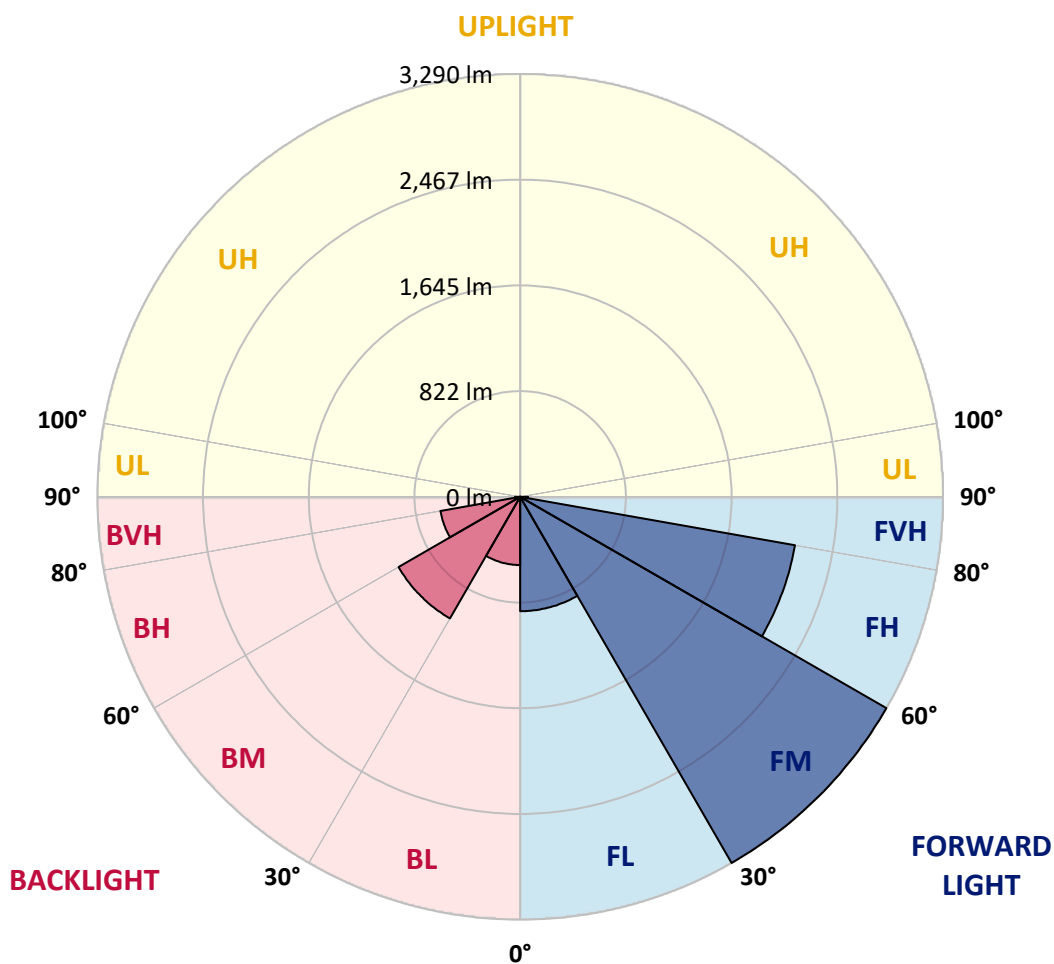
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 889.6 | 10.2 | | | |
| FM (30°-60°) | 3289.8 | 37.8 | | | |
| FH (60°-80°) | 2171.3 | 24.9 | | | G2/5000 |
| FVH (80°-90°) | 60.5 | 0.7 | | | G1/100 |
| BL (0°-30°) | 530.7 | 6.1 | B2/1000 | | |
| BM (30°-60°) | 1092.2 | 12.5 | B2/2500 | | |
| BH (60°-80°) | 630.2 | 7.2 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 39.6 | 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° | 1572.2 | 1572.2 | 1572.2 | 1572.2 | 1572.2 | 1572.2 | 1572.2 | 1572.2 | 1572.2 | 1572.2 | 1572.2 |
| 2.5° | 1653.1 | 1650.7 | 1645.8 | 1643.3 | 1638.4 | 1626.2 | 1618.8 | 1606.5 | 1596.7 | 1594.3 | 1579.6 |
| 5° | 1734.1 | 1736.5 | 1734.1 | 1726.7 | 1716.9 | 1699.7 | 1675.2 | 1643.3 | 1628.6 | 1623.7 | 1599.2 |
| 7.5° | 1810.1 | 1810.1 | 1807.7 | 1797.8 | 1788.0 | 1766.0 | 1731.6 | 1694.8 | 1660.5 | 1650.7 | 1618.8 |
| 10° | 1883.7 | 1883.7 | 1876.3 | 1866.5 | 1851.8 | 1824.8 | 1790.5 | 1743.9 | 1702.2 | 1687.5 | 1633.5 |
| 12.5° | 1962.2 | 1959.7 | 1949.9 | 1935.2 | 1915.6 | 1893.5 | 1856.7 | 1805.2 | 1758.6 | 1741.4 | 1665.4 |
| 15° | 2023.5 | 2023.5 | 2016.1 | 2006.3 | 1989.2 | 1962.2 | 1927.8 | 1883.7 | 1822.4 | 1807.7 | 1709.5 |
| 17.5° | 2077.5 | 2079.9 | 2075.0 | 2075.0 | 2060.3 | 2040.7 | 2011.2 | 1974.4 | 1915.6 | 1893.5 | 1775.8 |
| 20° | 2121.6 | 2119.1 | 2129.0 | 2136.3 | 2141.2 | 2129.0 | 2111.8 | 2087.3 | 2028.4 | 2006.3 | 1861.6 |
| 22.5° | 2141.2 | 2146.1 | 2175.6 | 2212.4 | 2234.4 | 2236.9 | 2234.4 | 2232.0 | 2180.5 | 2151.0 | 1979.3 |
| 25° | 2151.0 | 2158.4 | 2202.5 | 2266.3 | 2315.4 | 2352.2 | 2391.4 | 2415.9 | 2369.3 | 2347.3 | 2155.9 |
| 27.5° | 2160.8 | 2168.2 | 2219.7 | 2298.2 | 2391.4 | 2479.7 | 2558.2 | 2604.8 | 2570.4 | 2543.5 | 2337.4 |
| 30° | 2143.7 | 2151.0 | 2209.9 | 2320.3 | 2452.7 | 2607.2 | 2717.6 | 2783.8 | 2778.9 | 2761.8 | 2545.9 |
| 32.5° | 2106.9 | 2114.2 | 2180.5 | 2317.8 | 2516.5 | 2737.2 | 2859.9 | 2970.2 | 2992.3 | 2975.1 | 2754.4 |
| 35° | 2040.7 | 2050.5 | 2126.5 | 2288.4 | 2545.9 | 2845.2 | 3009.5 | 3171.4 | 3227.8 | 3230.2 | 2982.5 |
| 37.5° | 1949.9 | 1954.8 | 2048.0 | 2232.0 | 2555.7 | 2921.2 | 3134.6 | 3365.1 | 3480.4 | 3482.9 | 3215.5 |
| 40° | 1827.3 | 1839.5 | 1954.8 | 2160.8 | 2533.7 | 2975.1 | 3259.7 | 3576.1 | 3728.1 | 3711.0 | 3468.1 |
| 42.5° | 1687.5 | 1697.3 | 1810.1 | 2048.0 | 2482.2 | 3007.0 | 3374.9 | 3796.8 | 3997.9 | 3988.1 | 3706.1 |
| 45° | 1562.4 | 1577.1 | 1662.9 | 1891.0 | 2384.0 | 3014.4 | 3475.5 | 4017.6 | 4277.5 | 4265.3 | 3948.9 |
| 47.5° | 1395.6 | 1432.4 | 1547.7 | 1751.2 | 2236.9 | 2982.5 | 3566.3 | 4316.8 | 4586.6 | 4569.4 | 4204.0 |
| 50° | 1074.3 | 1086.6 | 1329.4 | 1633.5 | 2070.1 | 2904.0 | 3644.7 | 4593.9 | 4885.8 | 4873.6 | 4471.3 |
| 52.5° | 968.8 | 978.6 | 1057.1 | 1498.6 | 1903.3 | 2764.2 | 3691.3 | 4949.6 | 5185.0 | 5150.7 | 4711.7 |
| 55° | 910.0 | 919.8 | 963.9 | 1196.9 | 1758.6 | 2553.3 | 3701.2 | 5251.3 | 5427.9 | 5396.0 | 4937.3 |
| 57.5° | 856.0 | 863.4 | 905.1 | 1025.2 | 1591.8 | 2261.4 | 3649.6 | 5494.1 | 5633.9 | 5602.0 | 5140.9 |
| 60° | 799.6 | 806.9 | 851.1 | 932.0 | 1385.8 | 1994.1 | 3480.4 | 5682.9 | 5808.0 | 5776.2 | 5324.9 |
| 62.5° | 753.0 | 765.2 | 787.3 | 863.4 | 1238.6 | 1785.6 | 3149.3 | 5729.6 | 5928.2 | 5916.0 | 5481.8 |
| 65° | 696.6 | 701.5 | 735.8 | 797.1 | 1093.9 | 1640.9 | 2793.6 | 5594.7 | 5896.3 | 5918.4 | 5575.0 |
| 67.5° | 632.8 | 635.3 | 667.1 | 711.3 | 914.9 | 1498.6 | 2477.2 | 5413.2 | 5768.8 | 5805.6 | 5506.4 |
| 70° | 547.0 | 549.4 | 578.8 | 625.4 | 757.9 | 1299.9 | 2151.0 | 5145.8 | 5442.6 | 5476.9 | 5241.5 |
| 72.5° | 456.2 | 456.2 | 480.7 | 532.2 | 625.4 | 1076.7 | 1721.8 | 4559.6 | 5091.8 | 5148.3 | 4809.8 |
| 75° | 198.7 | 206.0 | 247.7 | 296.8 | 404.7 | 792.2 | 1174.9 | 3529.5 | 4576.8 | 4616.0 | 4216.2 |
| 77.5° | 54.0 | 54.0 | 63.8 | 83.4 | 117.7 | 353.2 | 372.8 | 1552.6 | 3188.5 | 3289.1 | 3117.4 |
| 80° | 44.1 | 44.1 | 49.1 | 63.8 | 80.9 | 174.1 | 125.1 | 500.4 | 986.0 | 1299.9 | 1616.3 |
| 82.5° | 24.5 | 24.5 | 29.4 | 36.8 | 44.1 | 44.1 | 44.1 | 255.1 | 485.6 | 517.5 | 677.0 |
| 85° | 12.3 | 14.7 | 14.7 | 17.2 | 17.2 | 14.7 | 14.7 | 51.5 | 93.2 | 105.5 | 161.9 |
| 87.5° | 4.9 | 4.9 | 4.9 | 4.9 | 2.5 | 2.5 | 4.9 | 7.4 | 7.4 | 9.8 | 12.3 |
| 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° | 1572.2 | 1572.2 | 1572.2 | 1572.2 | 1572.2 | 1572.2 | 1572.2 | 1572.2 | 1572.2 | 1572.2 | 1572.2 |
| 2.5° | 1574.6 | 1567.3 | 1557.5 | 1550.1 | 1535.4 | 1520.7 | 1510.9 | 1503.5 | 1501.1 | 1498.6 | 1498.6 |
| 5° | 1584.5 | 1572.2 | 1545.2 | 1518.2 | 1496.2 | 1476.5 | 1459.4 | 1447.1 | 1442.2 | 1439.7 | 1439.7 |
| 7.5° | 1599.2 | 1582.0 | 1537.9 | 1498.6 | 1459.4 | 1429.9 | 1403.0 | 1385.8 | 1376.0 | 1378.4 | 1385.8 |
| 10° | 1606.5 | 1579.6 | 1520.7 | 1481.4 | 1429.9 | 1383.3 | 1351.4 | 1331.8 | 1324.5 | 1324.5 | 1322.0 |
| 12.5° | 1626.2 | 1586.9 | 1508.4 | 1447.1 | 1403.0 | 1339.2 | 1302.4 | 1285.2 | 1275.4 | 1260.7 | 1255.8 |
| 15° | 1655.6 | 1606.5 | 1503.5 | 1422.6 | 1353.9 | 1297.5 | 1248.4 | 1223.9 | 1216.5 | 1196.9 | 1196.9 |
| 17.5° | 1709.5 | 1640.9 | 1503.5 | 1395.6 | 1307.3 | 1253.3 | 1189.6 | 1155.2 | 1150.3 | 1138.1 | 1135.6 |
| 20° | 1773.3 | 1687.5 | 1515.8 | 1368.6 | 1258.2 | 1187.1 | 1116.0 | 1081.6 | 1069.4 | 1057.1 | 1057.1 |
| 22.5° | 1873.9 | 1758.6 | 1537.9 | 1349.0 | 1206.7 | 1118.4 | 1040.0 | 990.9 | 971.3 | 968.8 | 963.9 |
| 25° | 2028.4 | 1871.4 | 1572.2 | 1329.4 | 1155.2 | 1042.4 | 963.9 | 900.1 | 868.3 | 863.4 | 860.9 |
| 27.5° | 2197.6 | 2025.9 | 1640.9 | 1312.2 | 1098.8 | 956.6 | 863.4 | 794.7 | 755.4 | 750.5 | 748.1 |
| 30° | 2379.1 | 2185.4 | 1731.6 | 1297.5 | 1027.7 | 858.5 | 753.0 | 686.8 | 650.0 | 640.2 | 642.6 |
| 32.5° | 2577.8 | 2357.1 | 1829.7 | 1285.2 | 951.7 | 730.9 | 632.8 | 588.7 | 549.4 | 532.2 | 534.7 |
| 35° | 2771.6 | 2509.1 | 1915.6 | 1275.4 | 851.1 | 615.6 | 539.6 | 493.0 | 453.8 | 431.7 | 431.7 |
| 37.5° | 2989.9 | 2688.2 | 1986.7 | 1255.8 | 743.2 | 537.1 | 463.6 | 417.0 | 387.5 | 367.9 | 367.9 |
| 40° | 3203.3 | 2867.2 | 2043.1 | 1219.0 | 623.0 | 473.4 | 382.6 | 355.6 | 336.0 | 323.8 | 318.9 |
| 42.5° | 3411.7 | 3046.3 | 2079.9 | 1157.7 | 522.4 | 397.3 | 318.9 | 316.4 | 318.9 | 306.6 | 304.1 |
| 45° | 3627.6 | 3222.9 | 2106.9 | 1059.6 | 451.3 | 328.7 | 284.5 | 301.7 | 318.9 | 313.9 | 313.9 |
| 47.5° | 3863.0 | 3394.6 | 2129.0 | 900.1 | 382.6 | 289.4 | 282.1 | 299.2 | 321.3 | 323.8 | 323.8 |
| 50° | 4088.7 | 3568.7 | 2121.6 | 696.6 | 336.0 | 287.0 | 284.5 | 289.4 | 318.9 | 326.2 | 321.3 |
| 52.5° | 4299.6 | 3718.3 | 2062.7 | 507.7 | 313.9 | 291.9 | 291.9 | 287.0 | 311.5 | 316.4 | 318.9 |
| 55° | 4513.0 | 3858.1 | 1930.3 | 402.2 | 301.7 | 291.9 | 304.1 | 291.9 | 299.2 | 301.7 | 306.6 |
| 57.5° | 4706.8 | 4000.4 | 1734.1 | 360.5 | 299.2 | 291.9 | 304.1 | 296.8 | 296.8 | 287.0 | 284.5 |
| 60° | 4856.4 | 4118.1 | 1496.2 | 343.4 | 291.9 | 294.3 | 299.2 | 299.2 | 291.9 | 269.8 | 262.4 |
| 62.5° | 4974.1 | 4216.2 | 1169.9 | 321.3 | 287.0 | 289.4 | 287.0 | 296.8 | 279.6 | 247.7 | 240.4 |
| 65° | 5040.3 | 4233.4 | 895.2 | 296.8 | 274.7 | 284.5 | 277.2 | 274.7 | 260.0 | 225.7 | 210.9 |
| 67.5° | 4966.8 | 4113.2 | 625.4 | 272.3 | 260.0 | 277.2 | 264.9 | 255.1 | 237.9 | 206.0 | 186.4 |
| 70° | 4682.2 | 3764.9 | 412.1 | 240.4 | 240.4 | 260.0 | 250.2 | 235.5 | 213.4 | 188.9 | 166.8 |
| 72.5° | 4147.5 | 3244.9 | 247.7 | 198.7 | 213.4 | 237.9 | 233.0 | 213.4 | 149.6 | 115.3 | 100.6 |
| 75° | 3507.4 | 2666.1 | 159.4 | 149.6 | 174.1 | 213.4 | 215.8 | 191.3 | 127.5 | 103.0 | 103.0 |
| 77.5° | 2548.4 | 1751.2 | 93.2 | 83.4 | 115.3 | 171.7 | 184.0 | 139.8 | 137.4 | 191.3 | 139.8 |
| 80° | 1307.3 | 848.6 | 71.1 | 51.5 | 61.3 | 127.5 | 103.0 | 105.5 | 208.5 | 154.5 | 98.1 |
| 82.5° | 566.6 | 336.0 | 44.1 | 36.8 | 39.2 | 63.8 | 66.2 | 174.1 | 161.9 | 90.8 | 61.3 |
| 85° | 120.2 | 63.8 | 24.5 | 24.5 | 24.5 | 29.4 | 36.8 | 188.9 | 100.6 | 46.6 | 19.6 |
| 87.5° | 12.3 | 12.3 | 12.3 | 12.3 | 12.3 | 12.3 | 9.8 | 9.8 | 9.8 | 7.4 | 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 |

(END OF REPORT)