

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: P507683

Luminaire Tested: **VERD-S-CA1-70-730-U-T3**

Issue Date: 3/30/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P507683  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2103-168-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/30/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: VERD-S-CA1-70-730-U-T3  
Description: VERDEON-S ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 3000K, 1330mA LED AND TYPE III OPTIC  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9636 lumens  
Efficiency: N/A  
Efficacy: 131.1 lumens/watt  
Luminous Opening: Rectangular (W 0.83' x L: 0.83' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B2 - U0 - G2

Input Watts (W): 73.5  
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

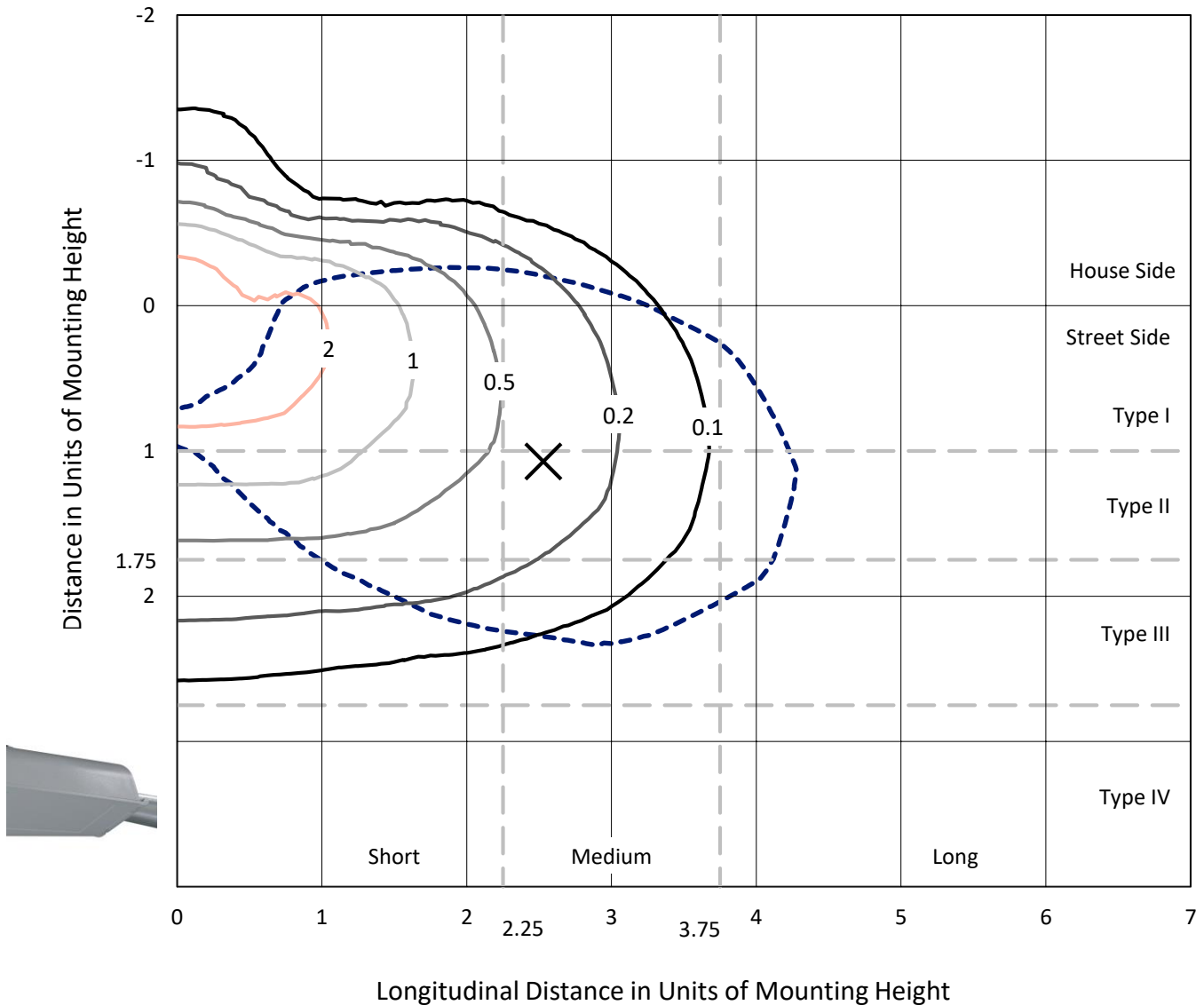


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### Iso-Footcandle Lines of Horizontal Illumination

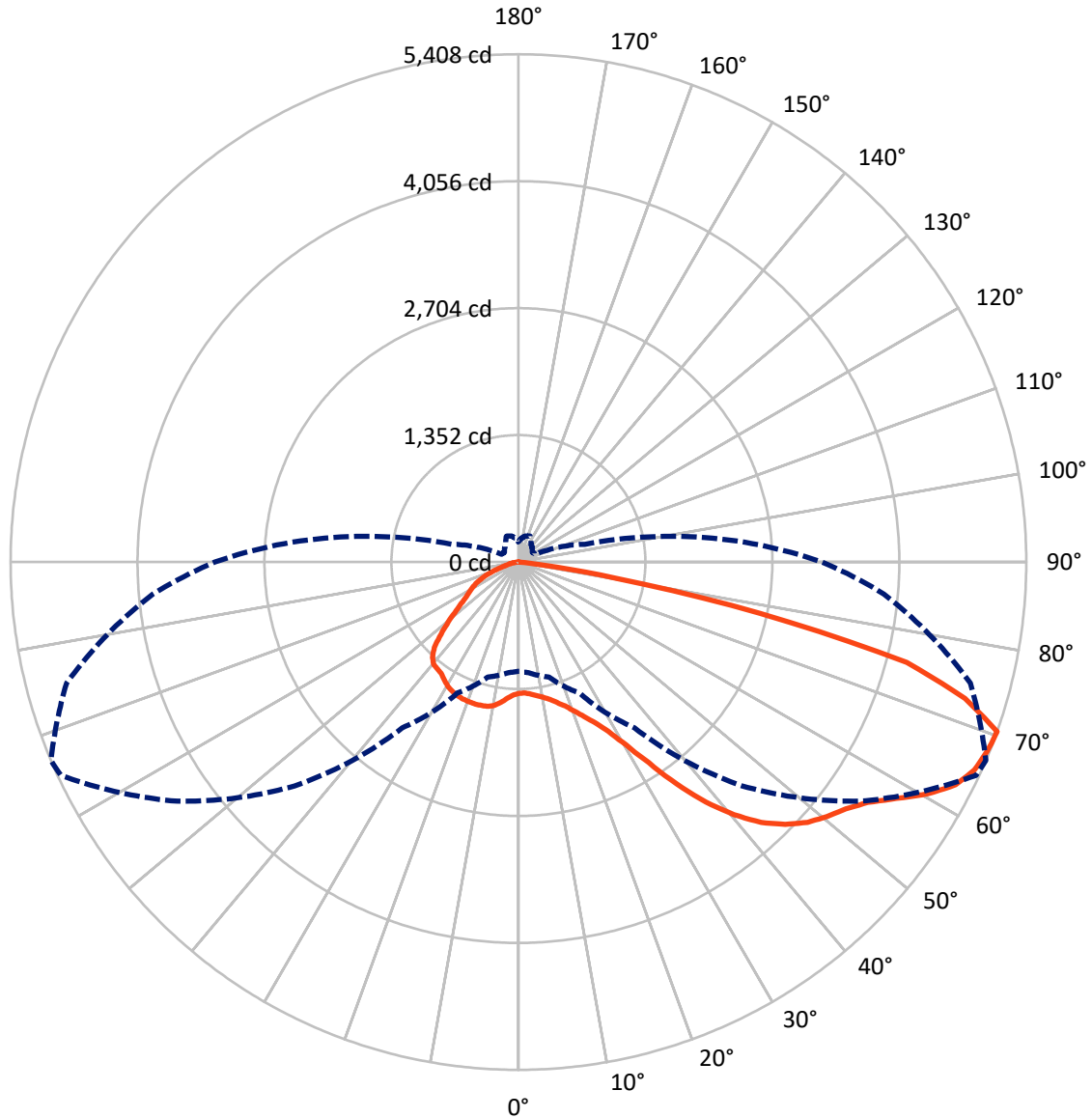
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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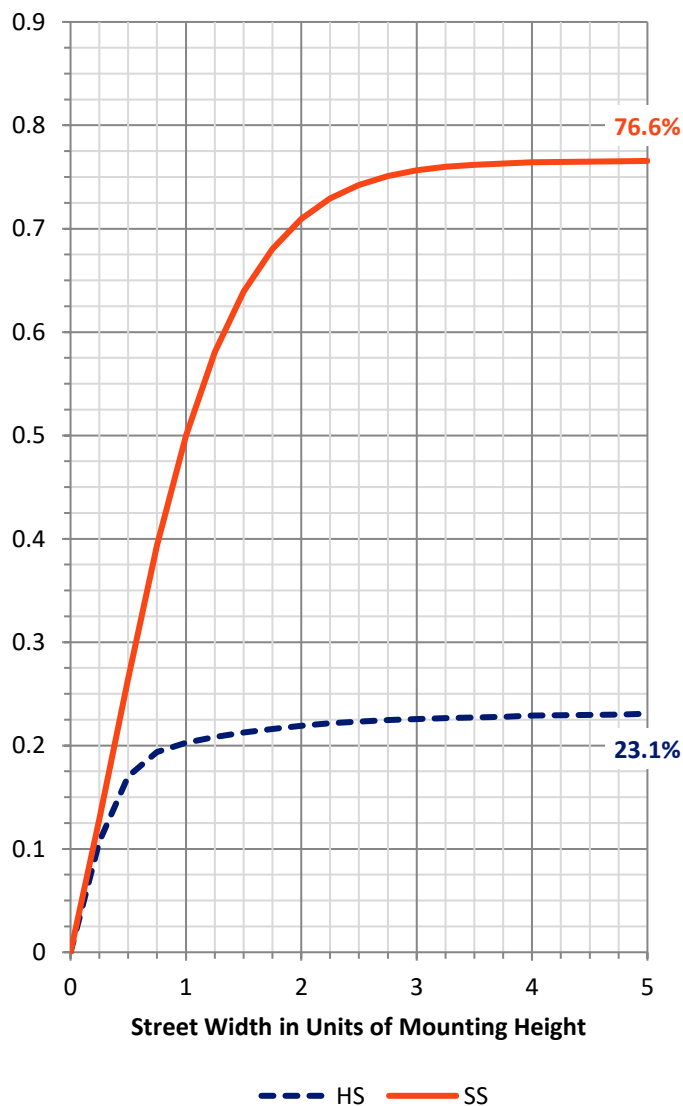
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 2254.6   | 0.0    | 2254.6 |
|                    | % Fixture | 23.4     | 0.0    | 23.4   |
| <b>Street Side</b> | Lumens    | 7381.4   | 0.0    | 7381.4 |
|                    | % Fixture | 76.6     | 0.0    | 76.6   |
| <b>Total</b>       | Lumens    | 9636.0   | 0.0    | 9636.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 141.9  | 1.5       |
| 10°-20°   | 456.8  | 4.7       |
| 20°-30°   | 805.6  | 8.4       |
| 30°-40°   | 1234.8 | 12.8      |
| 40°-50°   | 1683.2 | 17.5      |
| 50°-60°   | 1991.7 | 20.7      |
| 60°-70°   | 2076.4 | 21.5      |
| 70°-80°   | 1161.5 | 12.1      |
| 80°-90°   | 84.0   | 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°    | 9636.0 | 100.0     |
| 0°-180°   | 9636.0 | 100.0     |

**Coefficient of Utilization**



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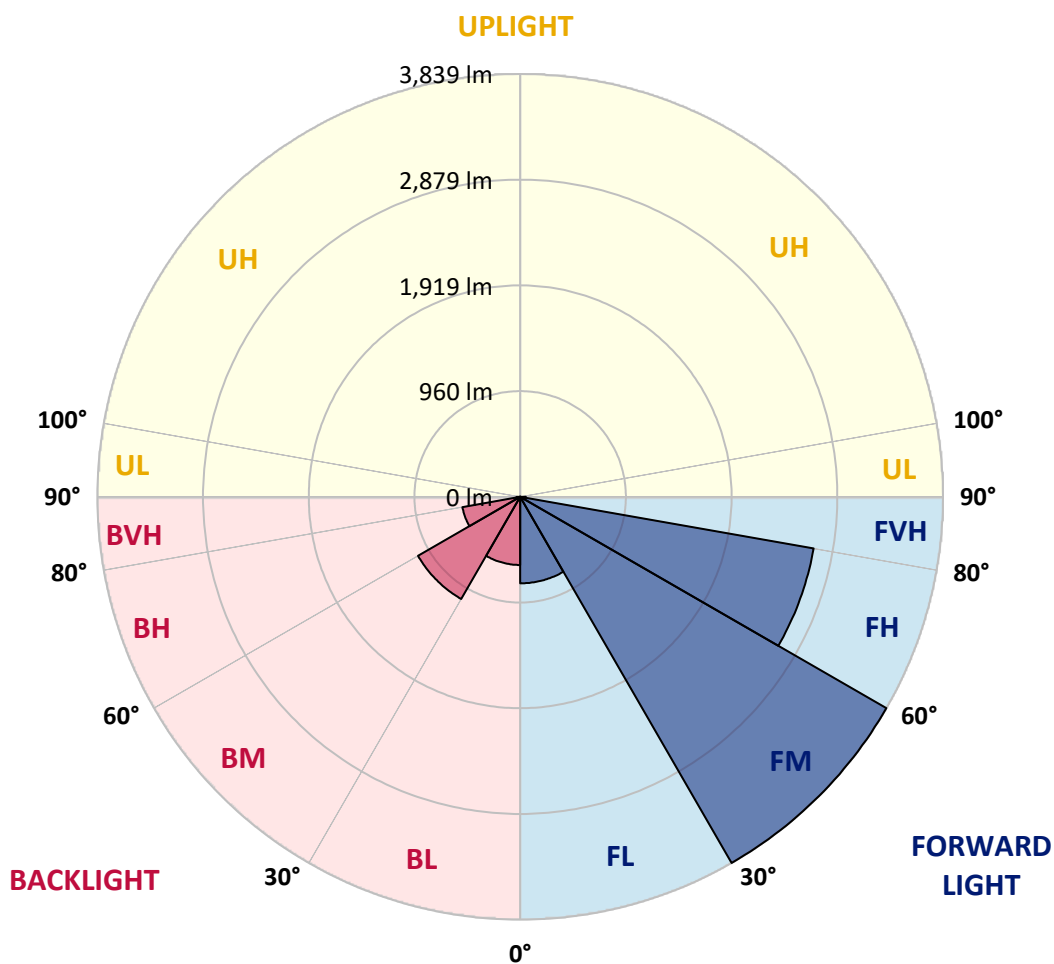
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 785.4  | 8.2       |                         |      |         |
| FM   | (30°-60°)   | 3838.9 | 39.8      |                         |      |         |
| FH   | (60°-80°)   | 2705.6 | 28.1      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 51.5   | 0.5       |                         |      | G1/100  |
| BL   | (0°-30°)    | 618.9  | 6.4       | B2/1000                 |      |         |
| BM   | (30°-60°)   | 1070.8 | 11.1      | B2/2500                 |      |         |
| BH   | (60°-80°)   | 532.3  | 5.5       | B2/1000                 |      | G2/1000 |
| BVH  | (80°-90°)   | 32.5   | 0.3       |                         |      | 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°    | 1397.7 | 1397.7 | 1397.7 | 1397.7 | 1397.7 | 1397.7 | 1397.7 | 1397.7 | 1397.7 | 1397.7 | 1397.7 |
| 2.5°  | 1403.2 | 1403.2 | 1403.2 | 1400.5 | 1400.5 | 1400.5 | 1397.7 | 1395.0 | 1395.0 | 1397.7 | 1397.7 |
| 5°    | 1438.7 | 1438.7 | 1436.0 | 1433.3 | 1427.8 | 1422.3 | 1416.9 | 1414.1 | 1414.1 | 1414.1 | 1416.9 |
| 7.5°  | 1488.0 | 1485.2 | 1479.8 | 1477.0 | 1468.8 | 1460.6 | 1449.7 | 1438.7 | 1438.7 | 1433.3 | 1438.7 |
| 10°   | 1548.2 | 1548.2 | 1539.9 | 1534.5 | 1523.5 | 1501.7 | 1485.2 | 1468.8 | 1466.1 | 1460.6 | 1468.8 |
| 12.5° | 1624.7 | 1624.7 | 1619.3 | 1605.6 | 1589.2 | 1561.8 | 1531.7 | 1504.4 | 1501.7 | 1493.4 | 1509.9 |
| 15°   | 1717.7 | 1709.5 | 1706.8 | 1695.9 | 1665.8 | 1630.2 | 1589.2 | 1553.6 | 1553.6 | 1539.9 | 1559.1 |
| 17.5° | 1821.7 | 1818.9 | 1816.2 | 1802.5 | 1767.0 | 1715.0 | 1660.3 | 1619.3 | 1611.1 | 1602.9 | 1613.8 |
| 20°   | 1947.5 | 1944.8 | 1942.0 | 1920.1 | 1879.1 | 1816.2 | 1750.6 | 1695.9 | 1690.4 | 1682.2 | 1674.0 |
| 22.5° | 2092.5 | 2092.5 | 2081.5 | 2065.1 | 2007.7 | 1933.8 | 1854.5 | 1786.1 | 1786.1 | 1777.9 | 1739.6 |
| 25°   | 2232.0 | 2226.5 | 2221.0 | 2201.9 | 2155.4 | 2076.1 | 1983.1 | 1903.7 | 1892.8 | 1892.8 | 1827.2 |
| 27.5° | 2360.5 | 2360.5 | 2368.7 | 2357.8 | 2311.3 | 2229.2 | 2136.2 | 2046.0 | 2040.5 | 2029.6 | 1928.4 |
| 30°   | 2494.6 | 2500.0 | 2502.8 | 2502.8 | 2480.9 | 2418.0 | 2316.8 | 2248.4 | 2259.3 | 2232.0 | 2078.8 |
| 32.5° | 2595.8 | 2601.2 | 2636.8 | 2669.6 | 2650.5 | 2614.9 | 2557.5 | 2535.6 | 2546.5 | 2568.4 | 2401.6 |
| 35°   | 2691.5 | 2699.7 | 2748.9 | 2817.3 | 2847.4 | 2831.0 | 2839.2 | 2877.5 | 2902.1 | 2989.6 | 2844.7 |
| 37.5° | 2762.6 | 2770.8 | 2814.6 | 2899.4 | 2989.6 | 3036.1 | 3112.7 | 3197.5 | 3244.0 | 3356.2 | 3148.3 |
| 40°   | 2781.8 | 2795.4 | 2885.7 | 3000.6 | 3137.3 | 3276.8 | 3369.8 | 3479.2 | 3536.7 | 3588.7 | 3353.4 |
| 42.5° | 2716.1 | 2729.8 | 2847.4 | 3088.1 | 3279.6 | 3492.9 | 3594.1 | 3744.6 | 3791.1 | 3761.0 | 3512.1 |
| 45°   | 2675.1 | 2683.3 | 2803.6 | 3079.9 | 3402.7 | 3700.8 | 3799.3 | 3957.9 | 3985.3 | 3911.4 | 3648.8 |
| 47.5° | 2617.6 | 2625.8 | 2754.4 | 3066.2 | 3501.1 | 3881.3 | 3949.7 | 4105.6 | 4141.2 | 4037.2 | 3752.8 |
| 50°   | 2532.8 | 2543.8 | 2691.5 | 3041.6 | 3566.8 | 4004.4 | 4078.3 | 4239.6 | 4258.8 | 4149.4 | 3862.2 |
| 52.5° | 2431.6 | 2448.1 | 2604.0 | 2989.6 | 3610.5 | 4083.7 | 4179.5 | 4346.3 | 4365.5 | 4294.3 | 3979.8 |
| 55°   | 2308.6 | 2325.0 | 2491.8 | 2913.0 | 3596.9 | 4108.4 | 4223.2 | 4483.1 | 4515.9 | 4458.5 | 4081.0 |
| 57.5° | 2188.2 | 2199.1 | 2371.5 | 2800.9 | 3520.3 | 4146.6 | 4354.5 | 4704.6 | 4748.4 | 4628.1 | 4163.1 |
| 60°   | 2043.2 | 2067.9 | 2234.7 | 2647.7 | 3402.7 | 4184.9 | 4524.1 | 4970.0 | 5011.0 | 4792.2 | 4226.0 |
| 62.5° | 1892.8 | 1914.7 | 2062.4 | 2456.3 | 3219.4 | 4149.4 | 4652.7 | 5199.7 | 5224.3 | 4923.5 | 4247.9 |
| 65°   | 1717.7 | 1720.5 | 1857.2 | 2212.8 | 2956.8 | 4004.4 | 4663.6 | 5311.9 | 5336.5 | 5005.5 | 4209.6 |
| 67.5° | 1485.2 | 1485.2 | 1600.1 | 1903.7 | 2604.0 | 3741.8 | 4565.1 | 5347.4 | 5383.0 | 5060.2 | 4116.6 |
| 70°   | 1162.5 | 1181.6 | 1269.2 | 1539.9 | 2155.4 | 3369.8 | 4439.3 | 5374.8 | 5407.6 | 4980.9 | 3905.9 |
| 72.5° | 812.4  | 806.9  | 897.2  | 1061.3 | 1559.1 | 2688.8 | 3960.6 | 4972.7 | 4972.7 | 4576.1 | 3520.3 |
| 75°   | 248.9  | 279.0  | 320.0  | 429.4  | 711.2  | 1802.5 | 3244.0 | 4215.0 | 4269.7 | 3963.4 | 2902.1 |
| 77.5° | 82.1   | 82.1   | 95.7   | 117.6  | 153.2  | 382.9  | 1622.0 | 2582.1 | 2625.8 | 2579.3 | 1797.1 |
| 80°   | 65.6   | 65.6   | 73.9   | 84.8   | 98.5   | 196.9  | 571.7  | 968.3  | 1039.4 | 1146.1 | 744.0  |
| 82.5° | 46.5   | 46.5   | 49.2   | 52.0   | 49.2   | 79.3   | 150.4  | 257.1  | 262.6  | 284.5  | 240.7  |
| 85°   | 30.1   | 27.4   | 27.4   | 24.6   | 21.9   | 21.9   | 19.1   | 19.1   | 21.9   | 21.9   | 27.4   |
| 87.5° | 5.5    | 5.5    | 5.5    | 5.5    | 5.5    | 5.5    | 5.5    | 8.2    | 8.2    | 8.2    | 8.2    |
| 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°    | 1397.7 | 1397.7 | 1397.7 | 1397.7 | 1397.7 | 1397.7 | 1397.7 | 1397.7 | 1397.7 | 1397.7 | 1397.7 |
| 2.5°  | 1400.5 | 1403.2 | 1411.4 | 1416.9 | 1422.3 | 1427.8 | 1430.5 | 1433.3 | 1433.3 | 1436.0 | 1436.0 |
| 5°    | 1419.6 | 1425.1 | 1438.7 | 1452.4 | 1474.3 | 1496.2 | 1515.3 | 1526.3 | 1529.0 | 1539.9 | 1539.9 |
| 7.5°  | 1444.2 | 1452.4 | 1485.2 | 1509.9 | 1542.7 | 1567.3 | 1589.2 | 1600.1 | 1611.1 | 1616.5 | 1616.5 |
| 10°   | 1482.5 | 1493.4 | 1526.3 | 1553.6 | 1581.0 | 1600.1 | 1613.8 | 1622.0 | 1624.7 | 1627.5 | 1627.5 |
| 12.5° | 1520.8 | 1534.5 | 1553.6 | 1575.5 | 1591.9 | 1602.9 | 1611.1 | 1613.8 | 1613.8 | 1613.8 | 1613.8 |
| 15°   | 1561.8 | 1567.3 | 1572.8 | 1578.2 | 1586.4 | 1589.2 | 1589.2 | 1586.4 | 1581.0 | 1578.2 | 1578.2 |
| 17.5° | 1602.9 | 1597.4 | 1589.2 | 1578.2 | 1567.3 | 1559.1 | 1548.2 | 1537.2 | 1529.0 | 1523.5 | 1526.3 |
| 20°   | 1652.1 | 1635.7 | 1600.1 | 1572.8 | 1542.7 | 1512.6 | 1488.0 | 1466.1 | 1449.7 | 1446.9 | 1449.7 |
| 22.5° | 1709.5 | 1676.7 | 1619.3 | 1561.8 | 1509.9 | 1455.2 | 1403.2 | 1373.1 | 1356.7 | 1343.0 | 1343.0 |
| 25°   | 1777.9 | 1725.9 | 1635.7 | 1545.4 | 1463.4 | 1375.8 | 1304.7 | 1258.2 | 1230.9 | 1214.5 | 1219.9 |
| 27.5° | 1857.2 | 1791.6 | 1652.1 | 1520.8 | 1395.0 | 1280.1 | 1187.1 | 1113.2 | 1083.2 | 1061.3 | 1064.0 |
| 30°   | 1972.1 | 1868.2 | 1671.2 | 1485.2 | 1307.5 | 1162.5 | 1039.4 | 951.9  | 899.9  | 883.5  | 889.0  |
| 32.5° | 2229.2 | 2032.3 | 1693.1 | 1433.3 | 1209.0 | 1023.0 | 858.9  | 752.2  | 697.5  | 697.5  | 694.8  |
| 35°   | 2658.7 | 2374.2 | 1745.1 | 1370.4 | 1099.6 | 867.1  | 656.5  | 558.0  | 555.3  | 566.2  | 568.9  |
| 37.5° | 2959.5 | 2688.8 | 1906.5 | 1310.2 | 979.2  | 678.3  | 486.9  | 459.5  | 486.9  | 497.8  | 495.1  |
| 40°   | 3153.7 | 2877.5 | 2092.5 | 1247.3 | 809.6  | 486.9  | 385.7  | 366.5  | 393.9  | 415.8  | 432.2  |
| 42.5° | 3312.4 | 3008.8 | 2177.3 | 1165.2 | 604.5  | 350.1  | 284.5  | 279.0  | 320.0  | 350.1  | 361.1  |
| 45°   | 3438.2 | 3129.1 | 2188.2 | 1050.3 | 410.3  | 259.8  | 232.5  | 257.1  | 306.3  | 331.0  | 333.7  |
| 47.5° | 3539.4 | 3227.6 | 2158.1 | 867.1  | 273.5  | 227.0  | 227.0  | 259.8  | 306.3  | 331.0  | 331.0  |
| 50°   | 3637.9 | 3309.7 | 2081.5 | 705.7  | 246.2  | 221.6  | 229.8  | 262.6  | 303.6  | 322.8  | 322.8  |
| 52.5° | 3719.9 | 3364.4 | 1947.5 | 563.5  | 238.0  | 216.1  | 229.8  | 262.6  | 298.1  | 306.3  | 300.9  |
| 55°   | 3793.8 | 3386.2 | 1827.2 | 454.1  | 229.8  | 213.3  | 235.2  | 268.1  | 295.4  | 295.4  | 284.5  |
| 57.5° | 3834.8 | 3334.3 | 1736.9 | 374.7  | 221.6  | 213.3  | 238.0  | 273.5  | 303.6  | 309.1  | 300.9  |
| 60°   | 3834.8 | 3260.4 | 1638.4 | 331.0  | 216.1  | 213.3  | 238.0  | 292.7  | 361.1  | 333.7  | 331.0  |
| 62.5° | 3782.9 | 3181.1 | 1490.7 | 295.4  | 207.9  | 216.1  | 240.7  | 325.5  | 440.4  | 331.0  | 317.3  |
| 65°   | 3692.6 | 3027.9 | 1296.5 | 262.6  | 199.7  | 218.8  | 238.0  | 374.7  | 525.2  | 320.0  | 281.7  |
| 67.5° | 3523.0 | 2784.5 | 1055.8 | 229.8  | 188.7  | 213.3  | 232.5  | 344.6  | 322.8  | 265.3  | 238.0  |
| 70°   | 3230.3 | 2420.7 | 733.0  | 199.7  | 180.5  | 207.9  | 232.5  | 303.6  | 287.2  | 243.4  | 213.3  |
| 72.5° | 2795.4 | 1985.8 | 393.9  | 164.1  | 158.6  | 196.9  | 227.0  | 279.0  | 246.2  | 199.7  | 180.5  |
| 75°   | 2147.2 | 1411.4 | 240.7  | 128.6  | 131.3  | 175.1  | 210.6  | 265.3  | 235.2  | 191.5  | 166.9  |
| 77.5° | 1239.1 | 653.7  | 172.3  | 95.7   | 93.0   | 139.5  | 188.7  | 246.2  | 229.8  | 186.0  | 161.4  |
| 80°   | 454.1  | 270.8  | 117.6  | 71.1   | 62.9   | 101.2  | 147.7  | 199.7  | 218.8  | 183.3  | 164.1  |
| 82.5° | 194.2  | 145.0  | 76.6   | 49.2   | 46.5   | 57.4   | 90.3   | 139.5  | 183.3  | 147.7  | 136.8  |
| 85°   | 27.4   | 27.4   | 27.4   | 24.6   | 27.4   | 35.6   | 38.3   | 68.4   | 101.2  | 54.7   | 54.7   |
| 87.5° | 10.9   | 10.9   | 10.9   | 10.9   | 13.7   | 13.7   | 10.9   | 10.9   | 8.2    | 8.2    | 8.2    |
| 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)