

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: P482759

Luminaire Tested: **IFLD-S-SA3B-730-U-T3R-HSS**

Issue Date: 02/26/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P482759  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3B-730-U-T3R-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R  
distribution lens with House Side Shield  
Light Source: (48) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

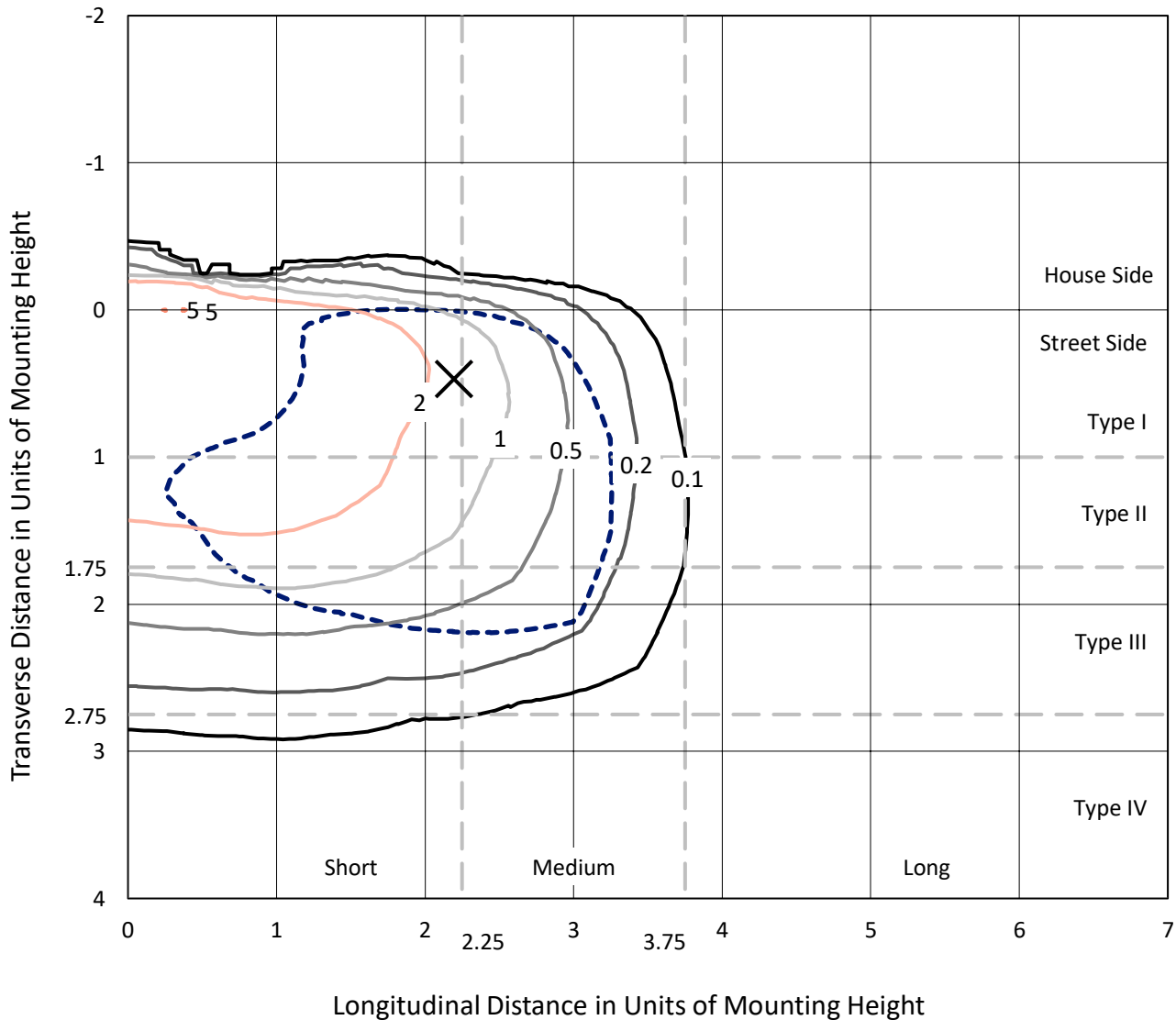
Lumens per Lamp: N/A  
Luminaire Lumens: 11106.9 lumens  
Efficiency: N/A  
Efficacy: 90.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2

Input Watts (W): 122.4  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): 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

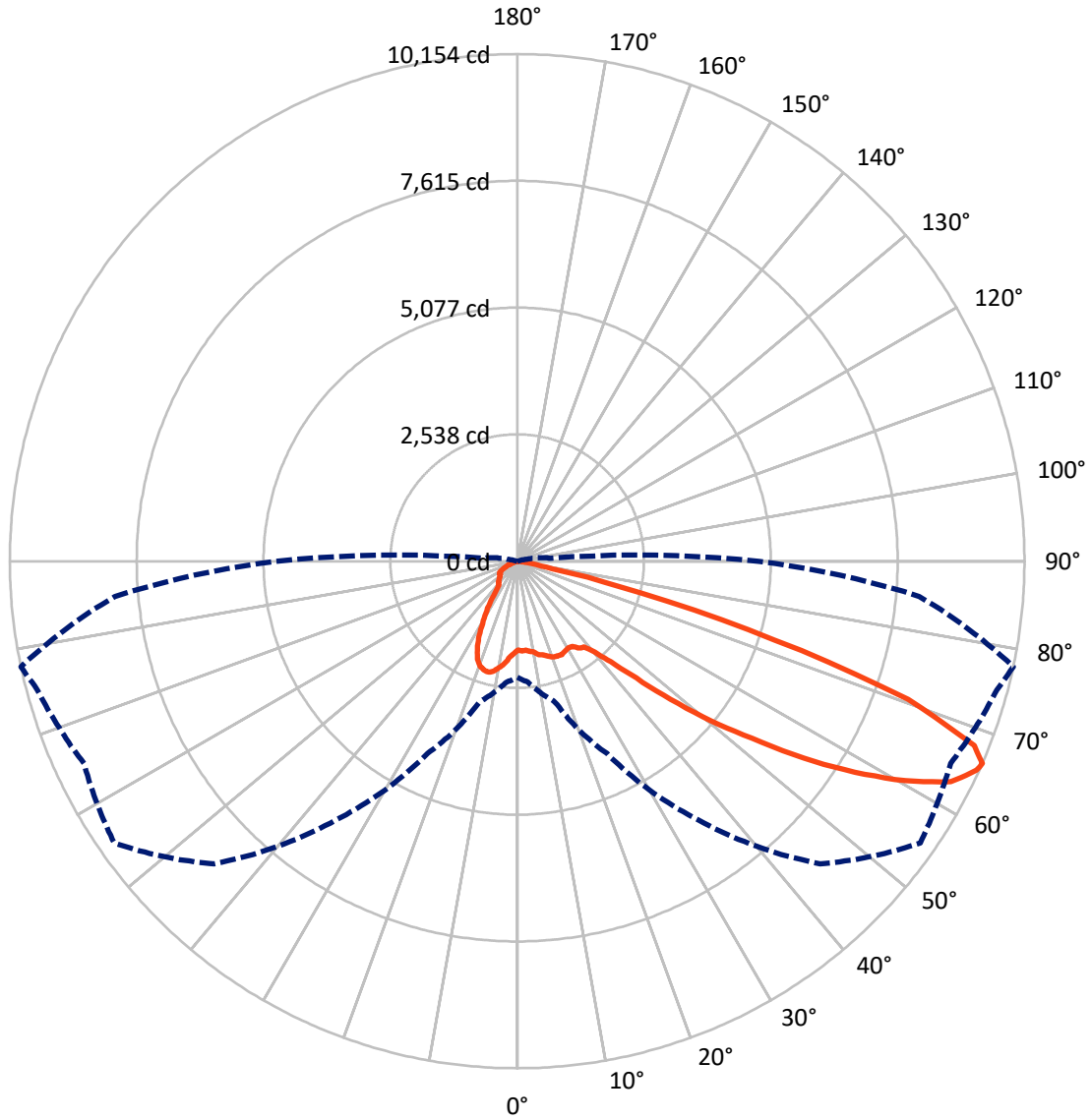
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.1 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral    - - - Horizontal Cone Through 66-Deg Vertical

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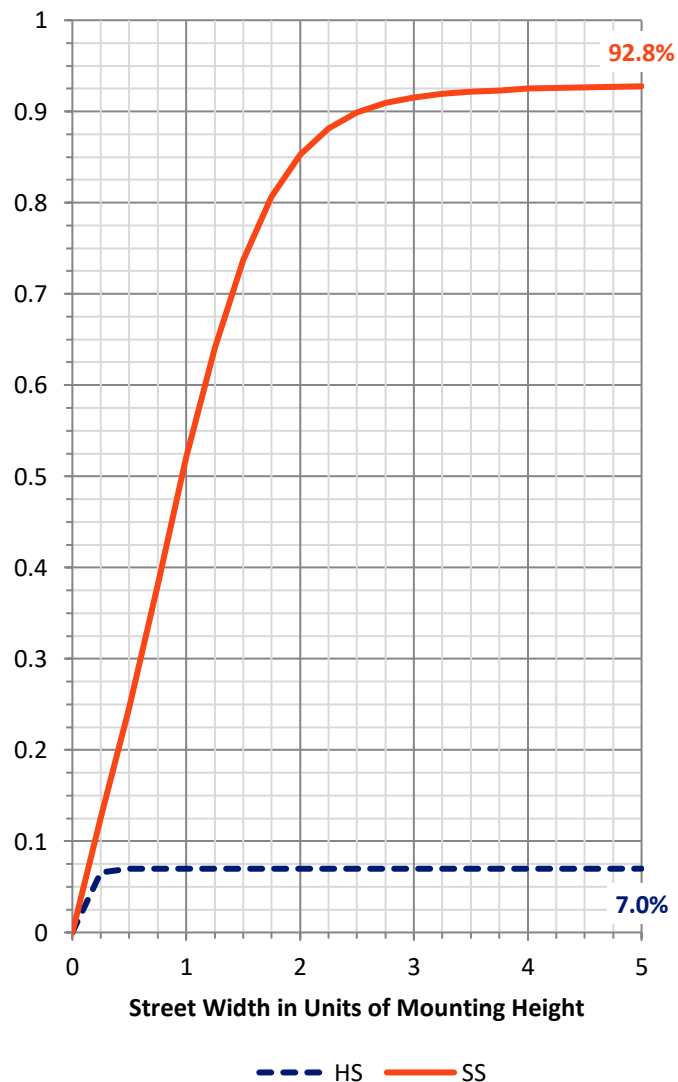
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 780.9    | 0.0    | 780.9   |
|                    | % Fixture | 7.0      | 0.0    | 7.0     |
| <b>Street Side</b> | Lumens    | 10326.0  | 0.0    | 10326.0 |
|                    | % Fixture | 93.0     | 0.0    | 93.0    |
| <b>Total</b>       | Lumens    | 11106.9  | 0.0    | 11106.9 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 162.7   | 1.5       |
| 10°-20°   | 367.4   | 3.3       |
| 20°-30°   | 525.1   | 4.7       |
| 30°-40°   | 898.8   | 8.1       |
| 40°-50°   | 1622.3  | 14.6      |
| 50°-60°   | 2774.4  | 25.0      |
| 60°-70°   | 3414.7  | 30.7      |
| 70°-80°   | 1291.0  | 11.6      |
| 80°-90°   | 50.4    | 0.5       |
| 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°    | 11106.9 | 100.0     |
| 0°-180°   | 11106.9 | 100.0     |

**Coefficient of Utilization**

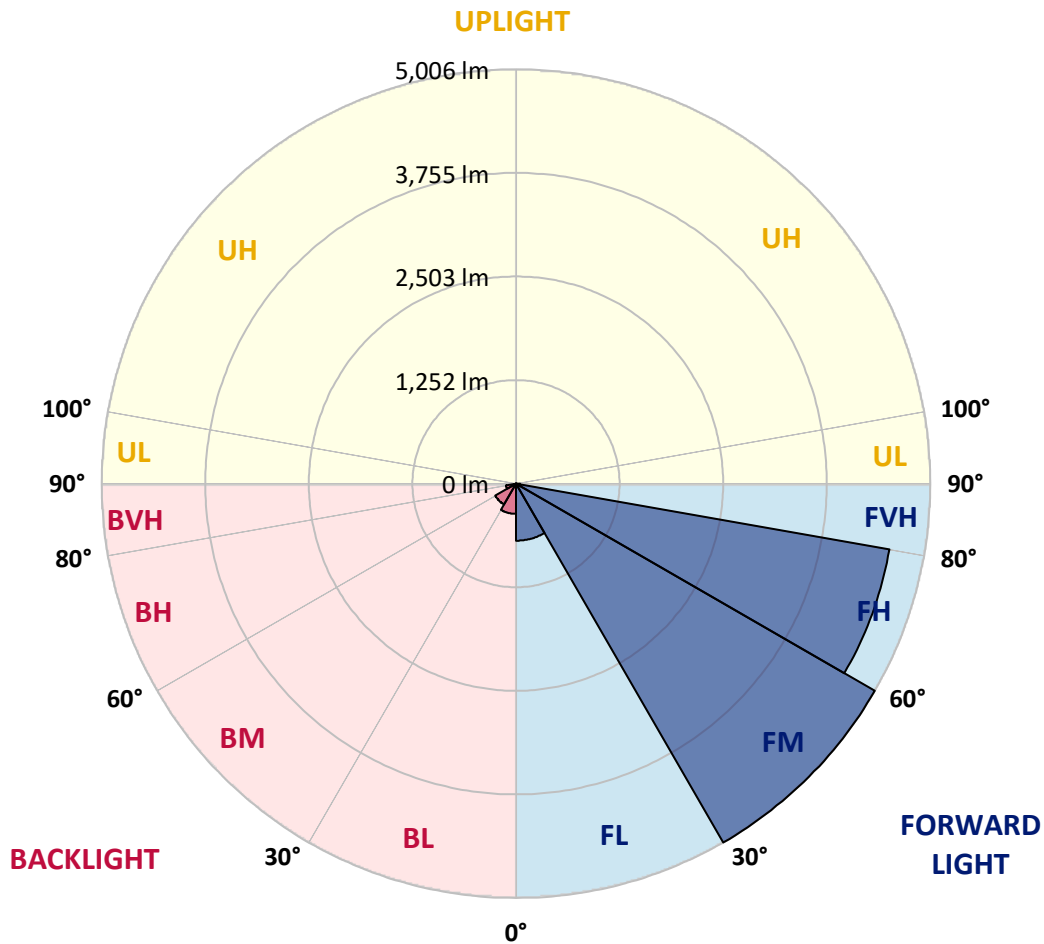


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 689.5  | 6.2       |                         |      |         |
| FM (30°-60°)   | 5006.1 | 45.1      |                         |      |         |
| FH (60°-80°)   | 4582.0 | 41.3      |                         |      | G2/5000 |
| FVH (80°-90°)  | 48.4   | 0.4       |                         |      | G1/100  |
| BL (0°-30°)    | 365.7  | 3.3       | B1/500                  |      |         |
| BM (30°-60°)   | 289.4  | 2.6       | B1/1000                 |      |         |
| BH (60°-80°)   | 123.7  | 1.1       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 2.0    | 0.0       |                         |      | G0/10   |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B1-U0-G2**  
 Type III Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 78°     | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|--------|
| 0°    | 1779.0 | 1779.0 | 1779.0 | 1779.0 | 1779.0 | 1779.0 | 1779.0 | 1779.0 | 1779.0 | 1779.0  | 1779.0 |
| 2.5°  | 1636.3 | 1621.2 | 1636.3 | 1658.1 | 1669.9 | 1679.9 | 1715.2 | 1745.4 | 1777.3 | 1799.1  | 1792.4 |
| 5°    | 1517.1 | 1545.7 | 1549.0 | 1555.7 | 1574.2 | 1634.6 | 1654.8 | 1706.8 | 1785.7 | 1792.4  | 1822.6 |
| 7.5°  | 1423.2 | 1414.8 | 1436.6 | 1480.2 | 1527.2 | 1562.5 | 1621.2 | 1711.8 | 1794.1 | 1822.6  | 1881.3 |
| 10°   | 1287.2 | 1304.0 | 1327.5 | 1371.1 | 1428.2 | 1515.5 | 1619.5 | 1720.2 | 1837.7 | 1847.8  | 1956.9 |
| 12.5° | 1213.4 | 1196.6 | 1233.5 | 1278.8 | 1376.2 | 1456.7 | 1584.3 | 1705.1 | 1864.5 | 1919.9  | 2045.8 |
| 15°   | 1153.0 | 1161.4 | 1196.6 | 1226.8 | 1307.4 | 1409.7 | 1559.1 | 1742.0 | 1909.9 | 1948.5  | 2139.8 |
| 17.5° | 1127.8 | 1122.8 | 1149.6 | 1179.8 | 1278.8 | 1394.6 | 1549.0 | 1743.7 | 1950.1 | 2000.5  | 2203.6 |
| 20°   | 1139.5 | 1149.6 | 1141.2 | 1169.7 | 1231.8 | 1349.3 | 1564.1 | 1775.6 | 1980.4 | 2049.2  | 2272.4 |
| 22.5° | 1324.1 | 1310.7 | 1243.6 | 1189.9 | 1193.2 | 1330.9 | 1552.4 | 1795.7 | 2007.2 | 2062.6  | 2319.4 |
| 25°   | 1805.8 | 1733.6 | 1567.5 | 1361.1 | 1225.1 | 1280.5 | 1539.0 | 1789.0 | 2002.2 | 2071.0  | 2347.9 |
| 27.5° | 2290.8 | 2228.7 | 2065.9 | 1745.4 | 1354.4 | 1260.4 | 1492.0 | 1794.1 | 1977.0 | 2040.8  | 2300.9 |
| 30°   | 2802.7 | 2836.3 | 2594.6 | 2213.6 | 1693.4 | 1371.1 | 1461.8 | 1767.2 | 1960.2 | 2013.9  | 2311.0 |
| 32.5° | 3328.0 | 3314.6 | 3168.6 | 2755.7 | 2178.4 | 1616.2 | 1510.4 | 1794.1 | 1982.0 | 2034.1  | 2369.7 |
| 35°   | 3739.2 | 3692.2 | 3544.5 | 3171.9 | 2579.5 | 1985.4 | 1678.3 | 1921.6 | 2077.7 | 2139.8  | 2453.6 |
| 37.5° | 3942.2 | 3962.4 | 3876.8 | 3552.9 | 3019.2 | 2327.8 | 1888.0 | 1921.6 | 2107.9 | 2180.1  | 2589.6 |
| 40°   | 4100.0 | 4160.4 | 4128.5 | 4024.5 | 3455.5 | 2713.8 | 2119.6 | 2040.8 | 2260.6 | 2396.6  | 2844.7 |
| 42.5° | 4289.6 | 4261.1 | 4449.1 | 4353.4 | 4026.2 | 3200.4 | 2525.8 | 2324.4 | 2621.4 | 2752.4  | 3227.3 |
| 45°   | 4390.3 | 4499.4 | 4642.1 | 4764.6 | 4554.8 | 3808.0 | 3056.1 | 2826.2 | 3173.6 | 3339.7  | 3796.2 |
| 47.5° | 4648.8 | 4692.4 | 4924.0 | 5078.4 | 4984.4 | 4502.8 | 3861.7 | 3559.6 | 3868.4 | 4130.2  | 4447.4 |
| 50°   | 4799.8 | 4741.1 | 5065.0 | 5300.0 | 5353.7 | 5078.4 | 4583.3 | 4348.4 | 4694.1 | 5028.1  | 5056.6 |
| 52.5° | 4667.2 | 4835.1 | 5159.0 | 5580.2 | 5729.6 | 5592.0 | 5430.9 | 5328.5 | 5571.8 | 5880.6  | 5743.0 |
| 55°   | 4202.4 | 4316.5 | 5105.3 | 5887.3 | 6369.0 | 6305.2 | 6454.6 | 6387.5 | 6632.5 | 6959.8  | 6545.2 |
| 57.5° | 3828.1 | 3970.8 | 4663.9 | 6046.8 | 6964.8 | 7152.8 | 7340.7 | 7298.8 | 7594.1 | 7971.7  | 7224.9 |
| 60°   | 3594.8 | 3677.1 | 4345.0 | 6006.5 | 7317.2 | 8028.8 | 8453.4 | 8158.0 | 8639.7 | 8928.4  | 7756.9 |
| 62.5° | 3190.4 | 3242.4 | 3880.1 | 5472.8 | 7423.0 | 8648.1 | 9368.1 | 8967.0 | 9384.8 | 9737.3  | 8139.6 |
| 65°   | 2557.7 | 2698.6 | 3225.6 | 4674.0 | 6724.8 | 8762.2 | 9938.7 | 9467.1 | 9871.5 | 10103.1 | 8255.4 |
| 66°   | 2327.8 | 2430.1 | 2913.5 | 4251.0 | 6327.1 | 8572.6 | 9843.0 | 9571.1 | 9942.0 | 10153.5 | 8077.5 |
| 67.5° | 1931.7 | 2020.6 | 2405.0 | 3648.5 | 5513.1 | 8154.7 | 9910.1 | 9500.6 | 9995.7 | 9866.5  | 7839.2 |
| 70°   | 1278.8 | 1335.9 | 1644.7 | 2467.0 | 3839.9 | 6671.1 | 9191.8 | 8950.2 | 8787.4 | 8302.4  | 6129.0 |
| 72.5° | 597.5  | 679.7  | 1027.1 | 1495.3 | 2252.2 | 4667.2 | 7495.1 | 7171.2 | 6162.6 | 5387.2  | 3866.7 |
| 75°   | 270.2  | 307.1  | 563.9  | 857.6  | 1010.3 | 2418.4 | 4835.1 | 4366.8 | 3067.9 | 2547.6  | 1693.4 |
| 77.5° | 146.0  | 166.1  | 275.2  | 407.8  | 367.5  | 847.5  | 2393.2 | 1990.4 | 966.7  | 708.2   | 491.7  |
| 80°   | 112.4  | 132.6  | 229.9  | 233.3  | 135.9  | 219.9  | 889.5  | 615.9  | 241.7  | 182.9   | 117.5  |
| 82.5° | 58.7   | 83.9   | 181.3  | 151.0  | 68.8   | 88.9   | 275.2  | 171.2  | 75.5   | 60.4    | 50.3   |
| 85°   | 23.5   | 36.9   | 102.4  | 100.7  | 40.3   | 30.2   | 77.2   | 52.0   | 30.2   | 25.2    | 23.5   |
| 87.5° | 1.7    | 1.7    | 55.4   | 38.6   | 25.2   | 8.4    | 11.7   | 11.7   | 15.1   | 13.4    | 16.8   |
| 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°    | 1779.0 | 1779.0 | 1779.0 | 1779.0 | 1779.0 | 1779.0 | 1779.0 | 1779.0 | 1779.0 | 1779.0 | 1779.0 |
| 2.5°  | 1822.6 | 1842.7 | 1846.1 | 1901.5 | 1913.2 | 1901.5 | 1931.7 | 1926.6 | 1940.1 | 1930.0 | 1911.5 |
| 5°    | 1864.5 | 1893.1 | 1948.5 | 1990.4 | 1990.4 | 1956.9 | 1930.0 | 1894.8 | 1842.7 | 1829.3 | 1819.2 |
| 7.5°  | 1936.7 | 2027.3 | 2077.7 | 2050.8 | 1997.1 | 1871.3 | 1696.7 | 1569.2 | 1461.8 | 1421.5 | 1403.0 |
| 10°   | 2064.3 | 2114.6 | 2173.4 | 2064.3 | 1841.1 | 1574.2 | 1280.5 | 1087.5 | 936.5  | 902.9  | 877.7  |
| 12.5° | 2146.5 | 2227.1 | 2260.6 | 1990.4 | 1552.4 | 1154.6 | 835.8  | 617.6  | 511.9  | 431.3  | 417.9  |
| 15°   | 2253.9 | 2346.2 | 2277.4 | 1790.7 | 1223.5 | 756.9  | 433.0  | 270.2  | 219.9  | 206.4  | 206.4  |
| 17.5° | 2327.8 | 2428.4 | 2208.6 | 1542.3 | 867.7  | 402.8  | 214.8  | 186.3  | 182.9  | 184.6  | 181.3  |
| 20°   | 2457.0 | 2517.4 | 2104.5 | 1253.7 | 518.6  | 206.4  | 172.9  | 166.1  | 162.8  | 167.8  | 164.5  |
| 22.5° | 2505.6 | 2561.0 | 1935.0 | 907.9  | 233.3  | 137.6  | 129.2  | 124.2  | 127.5  | 125.9  | 124.2  |
| 25°   | 2502.3 | 2530.8 | 1656.4 | 520.3  | 68.8   | 53.7   | 48.7   | 48.7   | 45.3   | 47.0   | 45.3   |
| 27.5° | 2527.5 | 2457.0 | 1344.3 | 154.4  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 30°   | 2540.9 | 2337.8 | 956.6  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 32.5° | 2547.6 | 2275.7 | 615.9  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 35°   | 2599.6 | 2151.5 | 263.5  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 37.5° | 2634.9 | 1992.1 | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 40°   | 2780.9 | 1941.8 | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 42.5° | 2970.5 | 1847.8 | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 45°   | 3234.0 | 1708.5 | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 47.5° | 3583.1 | 1626.2 | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 50°   | 3843.2 | 1497.0 | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 52.5° | 4173.8 | 1419.8 | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 55°   | 4566.6 | 1423.2 | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 57.5° | 4924.0 | 1399.7 | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 60°   | 5107.0 | 1196.6 | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 62.5° | 5068.4 | 968.4  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 65°   | 4934.1 | 760.3  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 66°   | 4841.8 | 673.0  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 67.5° | 4561.5 | 538.7  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 70°   | 3630.1 | 369.2  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 72.5° | 2309.3 | 226.6  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 75°   | 1064.0 | 104.1  | 3.4    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 77.5° | 334.0  | 63.8   | 13.4   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 80°   | 87.3   | 40.3   | 13.4   | 1.7    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 82.5° | 45.3   | 28.5   | 11.7   | 5.0    | 3.4    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 28.5   | 11.7   | 5.0    | 3.4    | 3.4    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 25.2   | 6.7    | 3.4    | 3.4    | 1.7    | 0.0    | 0.0    | 0.0    | 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)