

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: P481744

Luminaire Tested: **IFLD-S-SA3A-760-U-T2-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P481744  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3A-760-U-T2-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens with House Side Shield  
Light Source: (48) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

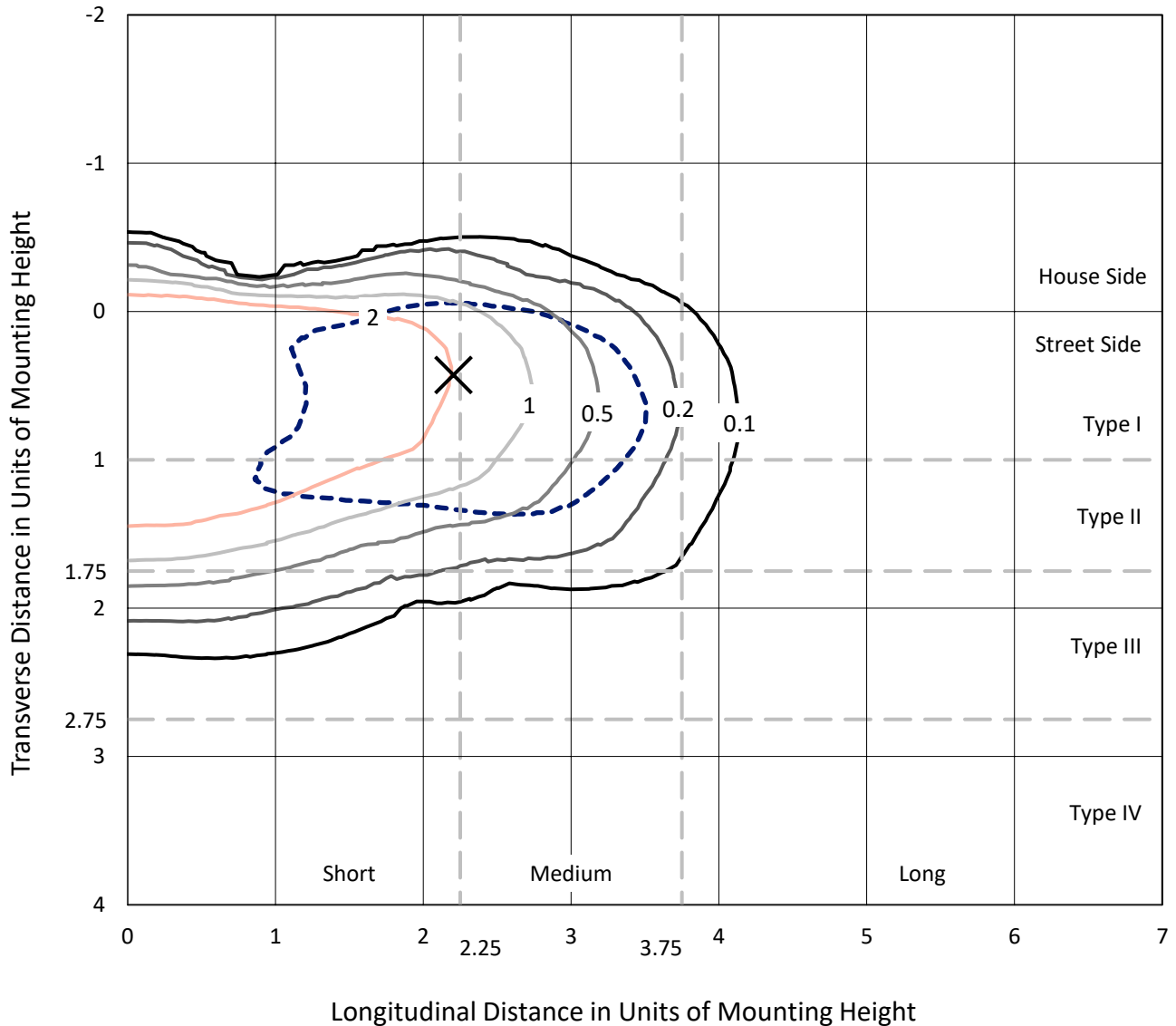
Lumens per Lamp: N/A  
Luminaire Lumens: 10134.9 lumens  
Efficiency: N/A  
Efficacy: 106.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G2

Input Watts (W): 94.8  
Input Voltage (V): 120  
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

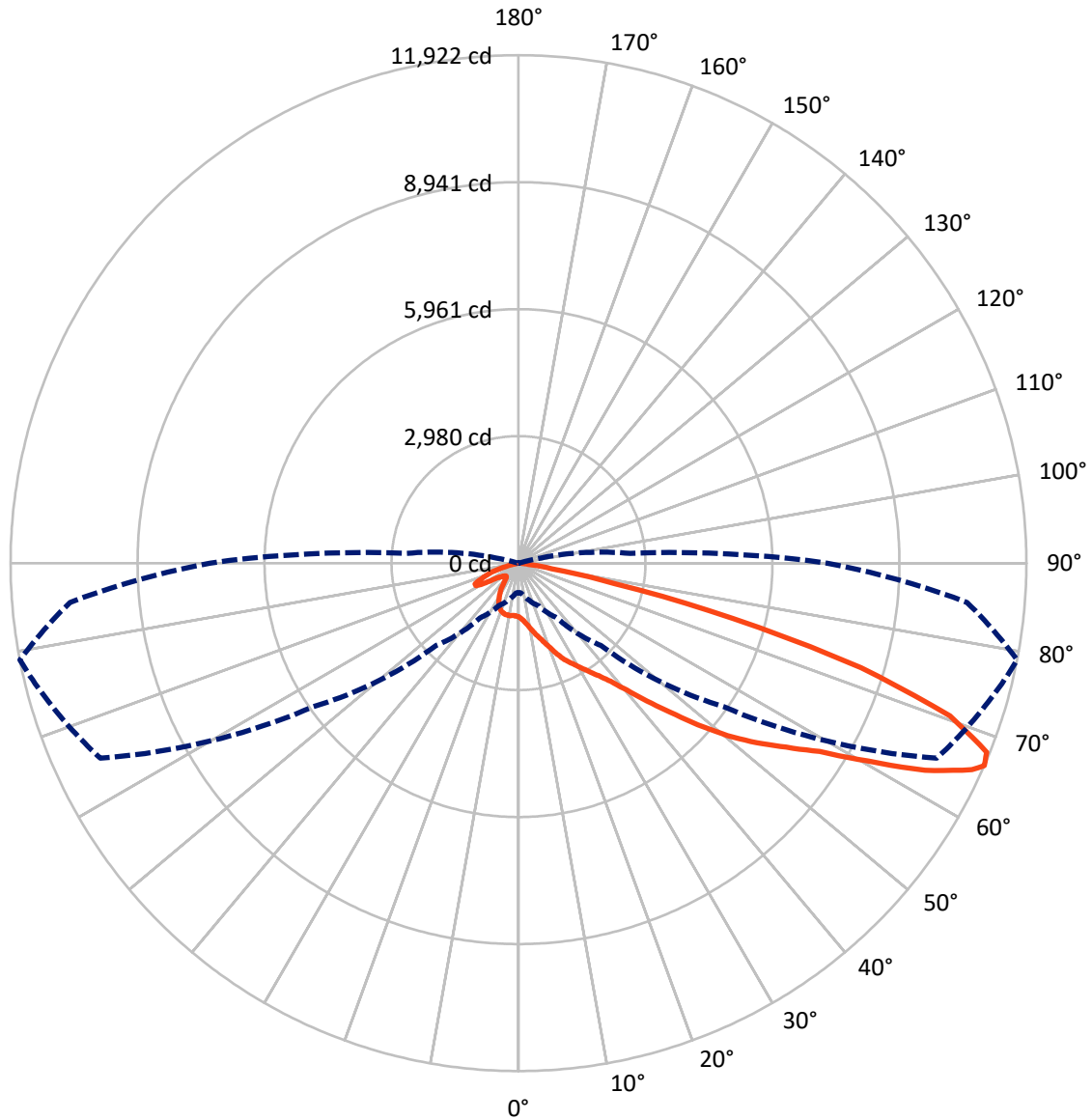
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.7 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral      - - - Horizontal Cone Through 66-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 761.0    | 0.0    | 761.0   |
|                    | % Fixture | 7.5      | 0.0    | 7.5     |
| <b>Street Side</b> | Lumens    | 9373.9   | 0.0    | 9373.9  |
|                    | % Fixture | 92.5     | 0.0    | 92.5    |
| <b>Total</b>       | Lumens    | 10134.9  | 0.0    | 10134.9 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 119.2   | 1.2       |
| 10°-20°   | 328.2   | 3.2       |
| 20°-30°   | 545.2   | 5.4       |
| 30°-40°   | 936.4   | 9.2       |
| 40°-50°   | 1696.5  | 16.7      |
| 50°-60°   | 2681.6  | 26.5      |
| 60°-70°   | 2728.8  | 26.9      |
| 70°-80°   | 1040.6  | 10.3      |
| 80°-90°   | 58.3    | 0.6       |
| 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°    | 10134.9 | 100.0     |
| 0°-180°   | 10134.9 | 100.0     |

**Coefficient of Utilization**

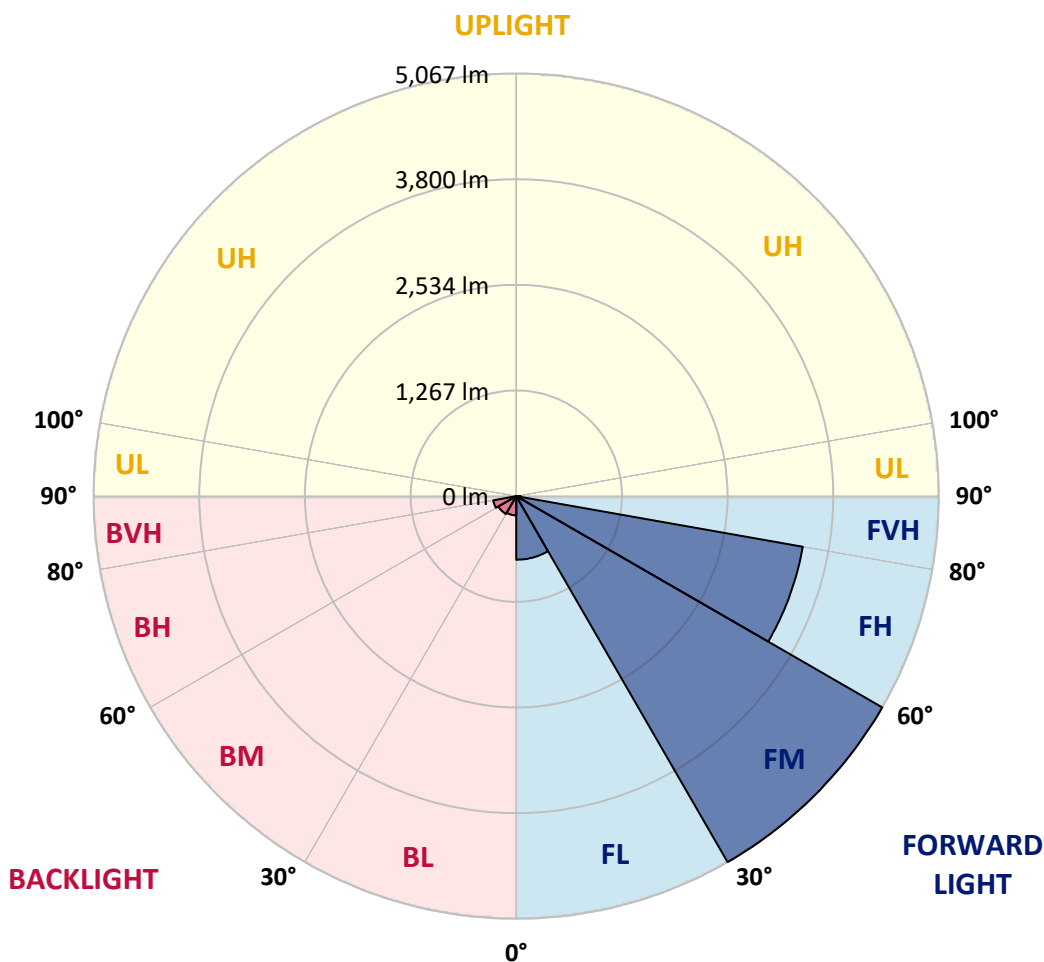


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 762.5  | 7.5       |                         |      |         |
| FM (30°-60°)   | 5067.2 | 50.0      |                         |      |         |
| FH (60°-80°)   | 3488.9 | 34.4      |                         |      | G2/5000 |
| FVH (80°-90°)  | 55.4   | 0.5       |                         |      | G1/100  |
| BL (0°-30°)    | 230.1  | 2.3       | B1/500                  |      |         |
| BM (30°-60°)   | 247.3  | 2.4       | B1/1000                 |      |         |
| BH (60°-80°)   | 280.5  | 2.8       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 3.0    | 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 II Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°     | 75°     | 79°     | 85°     |
|-------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|
| 0°    | 1260.9 | 1260.9 | 1260.9 | 1260.9 | 1260.9 | 1260.9 | 1260.9 | 1260.9  | 1260.9  | 1260.9  | 1260.9  |
| 2.5°  | 1428.1 | 1426.5 | 1420.3 | 1409.3 | 1395.3 | 1390.6 | 1370.3 | 1342.2  | 1326.5  | 1309.3  | 1301.5  |
| 5°    | 1526.5 | 1518.7 | 1537.5 | 1529.7 | 1532.8 | 1495.3 | 1470.3 | 1450.0  | 1390.6  | 1367.2  | 1329.7  |
| 7.5°  | 1548.4 | 1556.2 | 1554.7 | 1567.2 | 1579.6 | 1593.7 | 1576.5 | 1546.8  | 1487.5  | 1453.1  | 1412.5  |
| 10°   | 1548.4 | 1545.3 | 1557.8 | 1575.0 | 1610.9 | 1642.1 | 1689.0 | 1650.0  | 1604.6  | 1564.0  | 1490.6  |
| 12.5° | 1520.3 | 1515.6 | 1528.1 | 1564.0 | 1628.1 | 1692.1 | 1743.7 | 1781.2  | 1717.1  | 1684.3  | 1589.0  |
| 15°   | 1434.3 | 1429.7 | 1481.2 | 1545.3 | 1629.6 | 1734.3 | 1842.1 | 1903.1  | 1859.3  | 1807.8  | 1701.5  |
| 17.5° | 1328.1 | 1334.3 | 1389.0 | 1495.3 | 1629.6 | 1754.6 | 1892.1 | 2025.0  | 2018.7  | 1953.1  | 1842.1  |
| 20°   | 1292.2 | 1296.8 | 1351.5 | 1428.1 | 1581.2 | 1768.7 | 1970.3 | 2157.8  | 2195.3  | 2117.1  | 1971.8  |
| 22.5° | 1360.9 | 1356.2 | 1360.9 | 1407.8 | 1548.4 | 1756.2 | 2021.8 | 2309.3  | 2376.5  | 2315.6  | 2142.1  |
| 25°   | 1595.3 | 1592.1 | 1553.1 | 1481.2 | 1529.7 | 1728.1 | 2048.4 | 2409.3  | 2564.0  | 2507.8  | 2279.6  |
| 27.5° | 1939.0 | 1926.5 | 1865.6 | 1715.6 | 1617.1 | 1745.3 | 2092.1 | 2506.2  | 2728.1  | 2664.0  | 2403.1  |
| 30°   | 2307.8 | 2278.1 | 2198.4 | 2010.9 | 1843.7 | 1809.3 | 2117.1 | 2578.1  | 2910.9  | 2829.6  | 2510.9  |
| 32.5° | 2562.4 | 2601.5 | 2576.5 | 2385.9 | 2129.6 | 1957.8 | 2157.8 | 2668.7  | 3079.6  | 3026.5  | 2695.2  |
| 35°   | 2956.2 | 3001.5 | 2896.8 | 2728.1 | 2470.3 | 2193.7 | 2243.7 | 2742.1  | 3339.0  | 3249.9  | 2867.1  |
| 37.5° | 3453.0 | 3487.4 | 3412.4 | 3092.1 | 2820.2 | 2484.3 | 2420.3 | 2895.2  | 3562.4  | 3520.2  | 3087.4  |
| 40°   | 3703.0 | 3868.7 | 3762.4 | 3473.4 | 3181.2 | 2890.6 | 2712.4 | 3074.9  | 3951.5  | 3917.1  | 3392.1  |
| 42.5° | 4048.3 | 4131.2 | 4076.5 | 3862.4 | 3557.7 | 3324.9 | 3073.4 | 3424.9  | 4423.3  | 4423.3  | 3804.6  |
| 45°   | 4414.0 | 4417.1 | 4414.0 | 4239.0 | 3968.7 | 3848.3 | 3560.9 | 3864.0  | 4931.1  | 4987.4  | 4298.3  |
| 47.5° | 4714.0 | 4807.7 | 4799.9 | 4695.2 | 4485.8 | 4440.5 | 4048.3 | 4364.0  | 5568.6  | 5667.1  | 4779.6  |
| 50°   | 4868.6 | 4973.3 | 5004.6 | 5059.3 | 5049.9 | 5145.2 | 4581.1 | 4943.6  | 6118.6  | 6360.8  | 5398.3  |
| 52.5° | 4826.4 | 4834.3 | 5026.4 | 5242.1 | 5585.8 | 5853.0 | 5223.3 | 5601.4  | 6762.3  | 7001.4  | 5876.4  |
| 55°   | 4481.1 | 4451.5 | 4846.8 | 5093.6 | 5804.5 | 6285.8 | 6112.4 | 6421.7  | 7263.9  | 7627.9  | 6370.2  |
| 57.5° | 3723.3 | 3731.2 | 4096.8 | 4598.3 | 5642.1 | 6457.7 | 7062.3 | 7493.6  | 7967.0  | 8334.2  | 7063.9  |
| 60°   | 2570.3 | 2560.9 | 2970.2 | 3549.9 | 4687.4 | 6137.4 | 7609.2 | 8882.6  | 8907.6  | 9427.9  | 8309.2  |
| 62.5° | 1445.3 | 1448.4 | 1759.3 | 2254.6 | 3279.6 | 5015.5 | 7582.6 | 10357.6 | 10251.3 | 10707.6 | 9724.8  |
| 65°   | 818.7  | 839.0  | 1053.1 | 1335.9 | 1964.0 | 3367.1 | 6521.7 | 10945.1 | 11287.2 | 11693.5 | 10584.1 |
| 66°   | 692.2  | 706.2  | 889.0  | 1103.1 | 1567.2 | 2731.2 | 5870.2 | 10831.0 | 11612.2 | 11921.6 | 10566.9 |
| 67.5° | 535.9  | 554.7  | 707.8  | 875.0  | 1150.0 | 1890.6 | 4724.9 | 10263.8 | 11671.6 | 11852.8 | 10268.5 |
| 70°   | 367.2  | 379.7  | 496.9  | 664.0  | 785.9  | 967.2  | 2824.9 | 8485.7  | 10590.4 | 10743.5 | 8924.8  |
| 72.5° | 257.8  | 264.1  | 348.4  | 503.1  | 604.7  | 553.1  | 1401.5 | 6037.4  | 8104.5  | 8402.9  | 6942.0  |
| 75°   | 185.9  | 192.2  | 239.1  | 360.9  | 471.9  | 362.5  | 642.2  | 3856.2  | 4970.2  | 5204.6  | 4181.2  |
| 77.5° | 134.4  | 142.2  | 162.5  | 232.8  | 342.2  | 254.7  | 315.6  | 2014.0  | 2343.7  | 2303.1  | 1798.4  |
| 80°   | 81.2   | 89.1   | 120.3  | 150.0  | 250.0  | 179.7  | 173.4  | 840.6   | 831.2   | 789.0   | 565.6   |
| 82.5° | 37.5   | 43.7   | 64.1   | 101.6  | 175.0  | 125.0  | 82.8   | 300.0   | 262.5   | 240.6   | 159.4   |
| 85°   | 10.9   | 14.1   | 37.5   | 76.6   | 89.1   | 60.9   | 50.0   | 103.1   | 107.8   | 92.2    | 53.1    |
| 87.5° | 0.0    | 1.6    | 17.2   | 18.7   | 26.6   | 20.3   | 18.7   | 26.6    | 50.0    | 40.6    | 17.2    |
| 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°    | 1260.9 | 1260.9 | 1260.9 | 1260.9 | 1260.9 | 1260.9 | 1260.9 | 1260.9 | 1260.9 | 1260.9 | 1260.9 |
| 2.5°  | 1273.4 | 1262.5 | 1235.9 | 1195.3 | 1159.3 | 1140.6 | 1114.0 | 1090.6 | 1078.1 | 1076.5 | 1075.0 |
| 5°    | 1304.7 | 1275.0 | 1210.9 | 1137.5 | 1082.8 | 1023.4 | 982.8  | 953.1  | 925.0  | 898.4  | 914.0  |
| 7.5°  | 1346.8 | 1300.0 | 1195.3 | 1100.0 | 981.2  | 904.7  | 832.8  | 790.6  | 765.6  | 742.2  | 739.0  |
| 10°   | 1412.5 | 1353.1 | 1184.3 | 1012.5 | 876.5  | 764.0  | 690.6  | 629.7  | 595.3  | 554.7  | 570.3  |
| 12.5° | 1501.5 | 1395.3 | 1143.7 | 932.8  | 757.8  | 639.0  | 534.4  | 435.9  | 381.2  | 339.1  | 340.6  |
| 15°   | 1590.6 | 1451.5 | 1106.2 | 835.9  | 650.0  | 493.7  | 340.6  | 273.4  | 257.8  | 248.4  | 251.6  |
| 17.5° | 1678.1 | 1496.8 | 1048.4 | 737.5  | 526.5  | 314.1  | 248.4  | 234.4  | 226.6  | 217.2  | 217.2  |
| 20°   | 1784.3 | 1526.5 | 976.5  | 646.9  | 362.5  | 232.8  | 212.5  | 203.1  | 190.6  | 178.1  | 179.7  |
| 22.5° | 1887.5 | 1551.5 | 893.7  | 531.2  | 243.7  | 201.6  | 178.1  | 165.6  | 154.7  | 142.2  | 142.2  |
| 25°   | 1990.6 | 1559.3 | 785.9  | 381.2  | 196.9  | 160.9  | 139.1  | 121.9  | 110.9  | 100.0  | 101.6  |
| 27.5° | 2060.9 | 1510.9 | 684.4  | 243.7  | 157.8  | 121.9  | 96.9   | 82.8   | 73.4   | 62.5   | 62.5   |
| 30°   | 2101.5 | 1421.8 | 575.0  | 171.9  | 118.7  | 82.8   | 57.8   | 43.7   | 34.4   | 26.6   | 25.0   |
| 32.5° | 2142.1 | 1350.0 | 451.6  | 131.2  | 78.1   | 43.7   | 21.9   | 7.8    | 0.0    | 0.0    | 0.0    |
| 35°   | 2223.4 | 1268.7 | 303.1  | 73.4   | 26.6   | 1.6    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 37.5° | 2274.9 | 1156.2 | 139.1  | 10.9   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 40°   | 2404.6 | 1100.0 | 34.4   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 42.5° | 2615.6 | 1060.9 | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 45°   | 2846.8 | 1045.3 | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 47.5° | 3154.6 | 1087.5 | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 50°   | 3479.6 | 1201.5 | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 52.5° | 3835.8 | 1309.3 | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 55°   | 4146.8 | 1439.0 | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 57.5° | 4718.6 | 1745.3 | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 60°   | 5745.2 | 2346.8 | 1.6    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 62.5° | 6901.4 | 2793.7 | 17.2   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 65°   | 7324.8 | 2782.7 | 29.7   | 1.6    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 66°   | 7249.8 | 2629.6 | 29.7   | 1.6    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 67.5° | 6860.8 | 2335.9 | 26.6   | 3.1    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 70°   | 5892.0 | 1929.6 | 26.6   | 4.7    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 72.5° | 4492.1 | 1503.1 | 25.0   | 6.2    | 1.6    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 75°   | 2710.9 | 800.0  | 20.3   | 7.8    | 3.1    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 77.5° | 1079.7 | 281.2  | 15.6   | 6.2    | 3.1    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 80°   | 292.2  | 84.4   | 9.4    | 6.2    | 4.7    | 1.6    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 82.5° | 76.6   | 31.2   | 7.8    | 6.2    | 3.1    | 1.6    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 29.7   | 12.5   | 6.2    | 4.7    | 4.7    | 3.1    | 1.6    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 9.4    | 4.7    | 4.7    | 3.1    | 3.1    | 1.6    | 1.6    | 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)