

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: P476516

Luminaire Tested: **IFLD-S-SA2D-730-U-T2**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P476516  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2D-730-U-T2  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens  
Light Source: (32) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

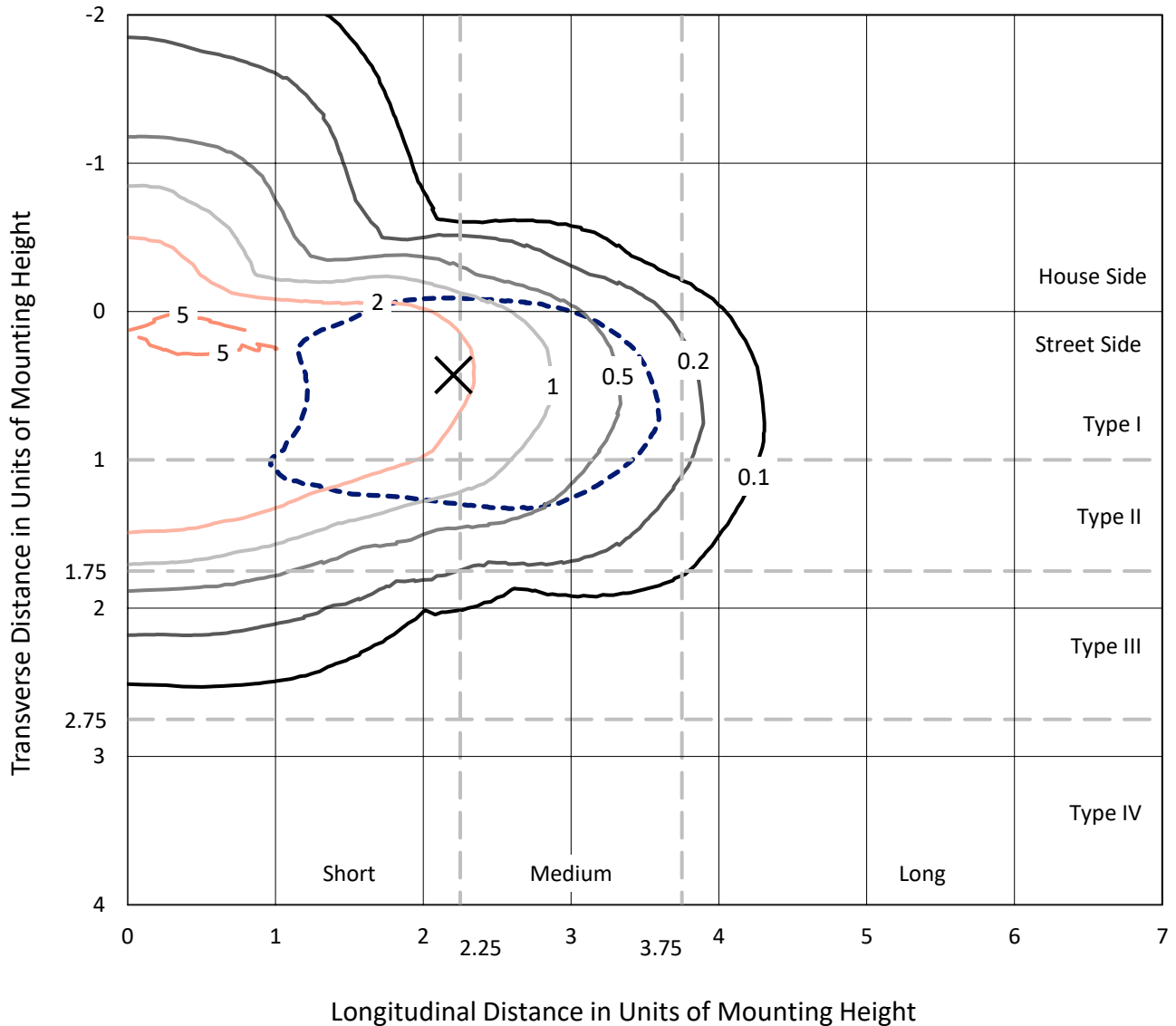
Lumens per Lamp: N/A  
Luminaire Lumens: 14224.2 lumens  
Efficiency: N/A  
Efficacy: 114.8 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2

Input Watts (W): 123.9  
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

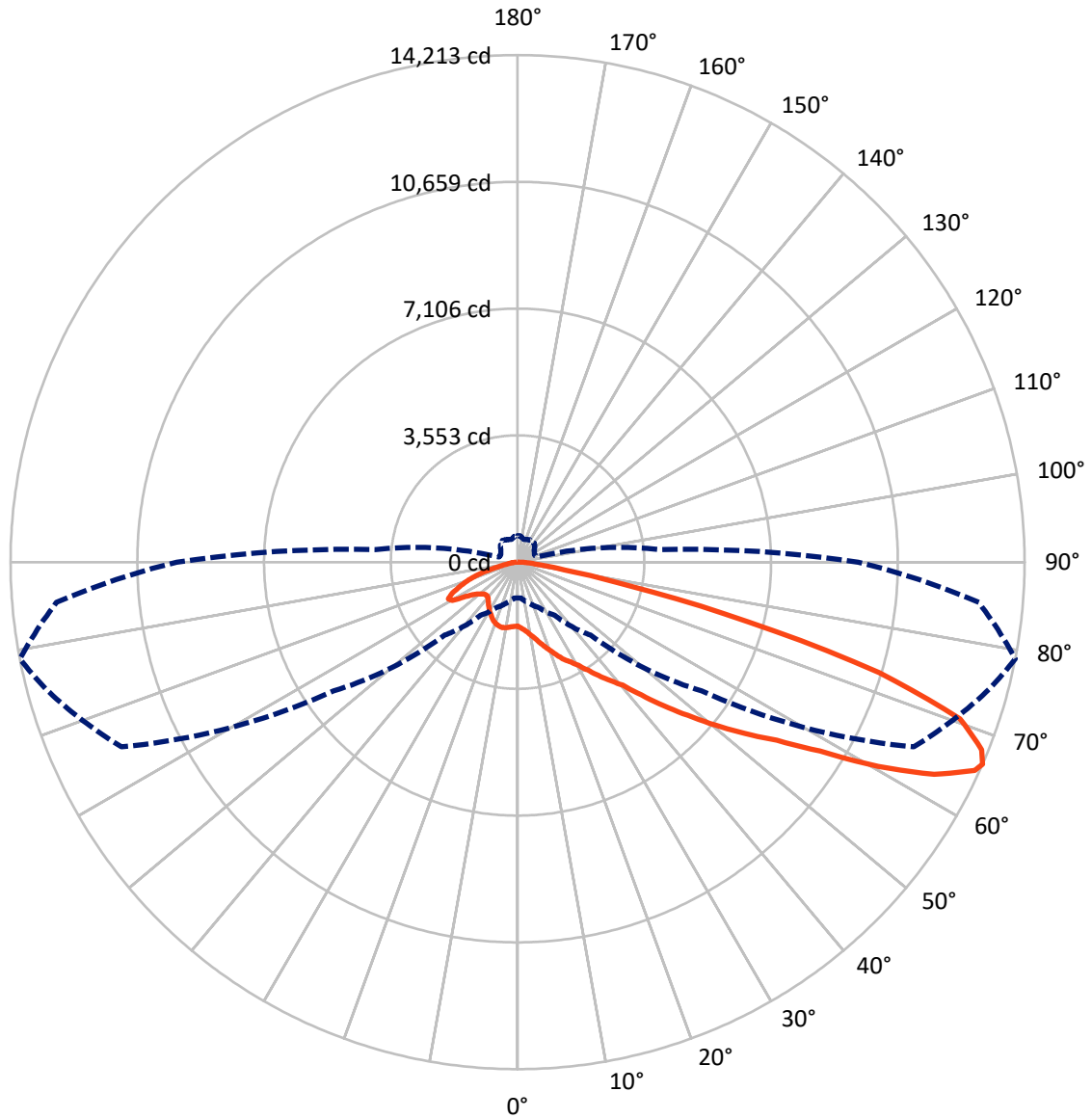
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.7 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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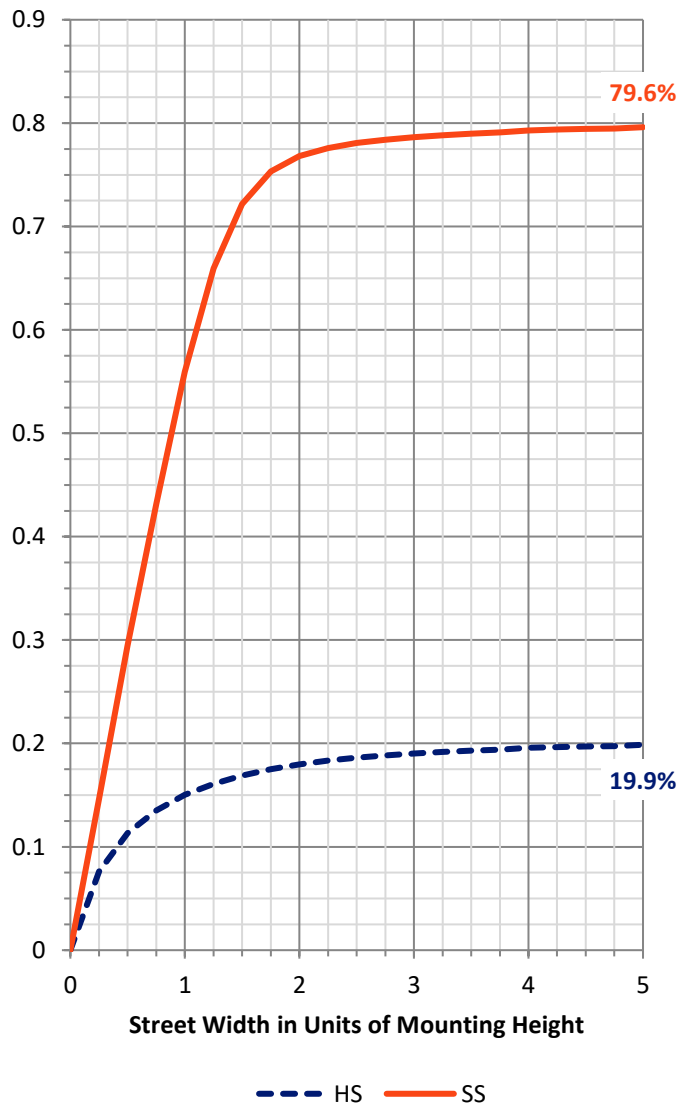
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 2872.4   | 0.0    | 2872.4  |
|                    | % Fixture | 20.2     | 0.0    | 20.2    |
| <b>Street Side</b> | Lumens    | 11351.8  | 0.0    | 11351.8 |
|                    | % Fixture | 79.8     | 0.0    | 79.8    |
| <b>Total</b>       | Lumens    | 14224.2  | 0.0    | 14224.2 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 176.6   | 1.2       |
| 10°-20°   | 545.4   | 3.8       |
| 20°-30°   | 936.1   | 6.6       |
| 30°-40°   | 1446.1  | 10.2      |
| 40°-50°   | 2316.4  | 16.3      |
| 50°-60°   | 3458.5  | 24.3      |
| 60°-70°   | 3553.6  | 25.0      |
| 70°-80°   | 1575.3  | 11.1      |
| 80°-90°   | 216.1   | 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°    | 14224.2 | 100.0     |
| 0°-180°   | 14224.2 | 100.0     |

**Coefficient of Utilization**



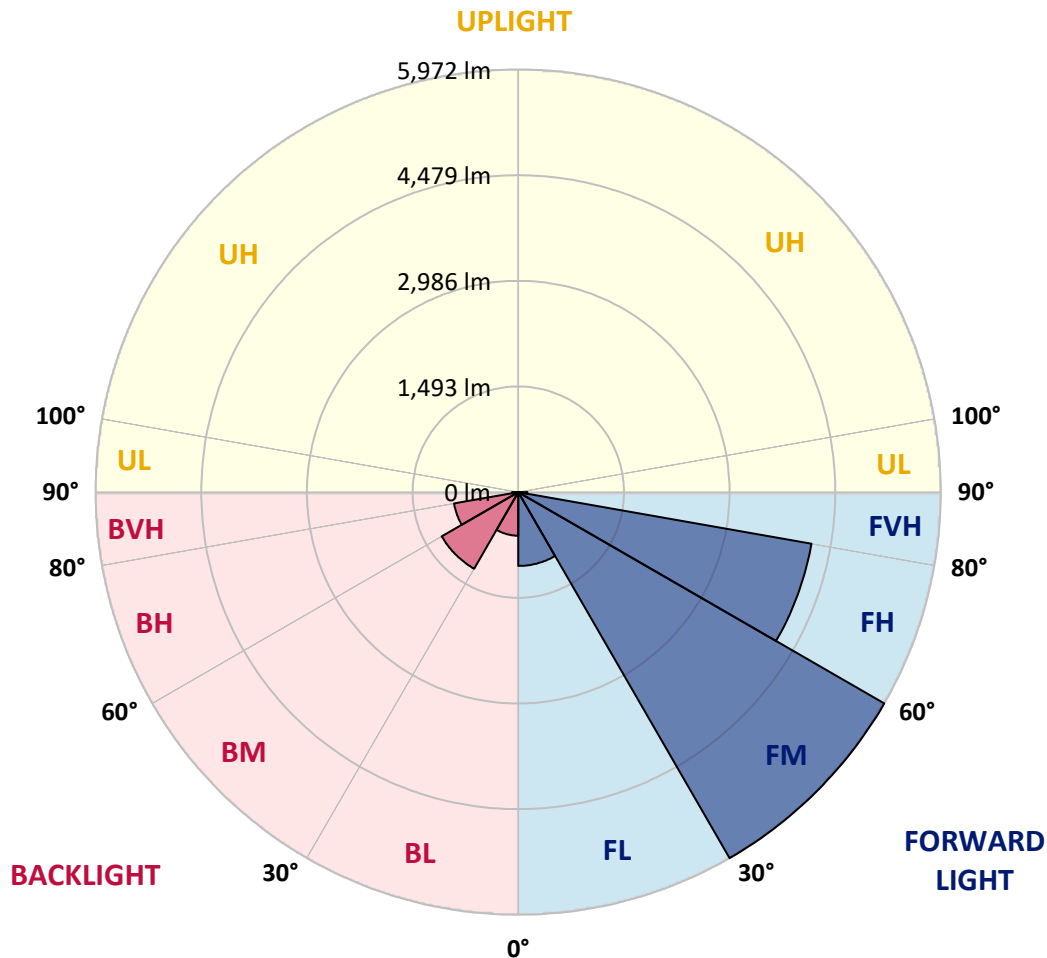
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 1042.7 | 7.3       |                         |      |         |
| FM (30°-60°)   | 5972.2 | 42.0      |                         |      |         |
| FH (60°-80°)   | 4207.2 | 29.6      |                         |      | G2/5000 |
| FVH (80°-90°)  | 129.6  | 0.9       |                         |      | G2/225  |
| BL (0°-30°)    | 615.4  | 4.3       | B2/1000                 |      |         |
| BM (30°-60°)   | 1248.8 | 8.8       | B2/2500                 |      |         |
| BH (60°-80°)   | 921.7  | 6.5       | B2/1000                 |      | G2/1000 |
| BVH (80°-90°)  | 86.5   | 0.6       |                         |      | 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°     | 75°     | 79°     | 85°     |
|-------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|
| 0°    | 1796.1 | 1796.1 | 1796.1 | 1796.1 | 1796.1 | 1796.1 | 1796.1 | 1796.1  | 1796.1  | 1796.1  | 1796.1  |
| 2.5°  | 1910.3 | 1911.9 | 1911.9 | 1905.6 | 1907.2 | 1911.9 | 1894.7 | 1857.1  | 1857.1  | 1850.9  | 1839.9  |
| 5°    | 2027.7 | 2019.8 | 2008.9 | 2010.5 | 2004.2 | 2004.2 | 1985.4 | 1949.4  | 1918.2  | 1905.6  | 1872.8  |
| 7.5°  | 2043.3 | 2051.1 | 2049.6 | 2068.4 | 2077.7 | 2077.7 | 2087.1 | 2057.4  | 2010.5  | 1980.7  | 1947.9  |
| 10°   | 2074.6 | 2054.3 | 2052.7 | 2096.5 | 2110.6 | 2143.4 | 2181.0 | 2165.4  | 2126.2  | 2084.0  | 2040.2  |
| 12.5° | 2093.4 | 2105.9 | 2105.9 | 2127.8 | 2160.7 | 2209.2 | 2274.9 | 2304.6  | 2243.6  | 2199.8  | 2132.5  |
| 15°   | 2121.5 | 2104.3 | 2154.4 | 2173.2 | 2235.8 | 2270.2 | 2364.1 | 2440.7  | 2400.0  | 2346.8  | 2240.5  |
| 17.5° | 2134.1 | 2123.1 | 2151.3 | 2185.7 | 2292.1 | 2343.7 | 2457.9 | 2564.3  | 2529.9  | 2495.5  | 2386.0  |
| 20°   | 2198.2 | 2196.6 | 2209.2 | 2237.3 | 2314.0 | 2415.7 | 2558.1 | 2705.1  | 2717.6  | 2655.1  | 2506.4  |
| 22.5° | 2354.7 | 2334.3 | 2334.3 | 2323.4 | 2356.2 | 2461.1 | 2653.5 | 2856.9  | 2913.2  | 2839.7  | 2642.5  |
| 25°   | 2498.6 | 2526.8 | 2509.6 | 2459.5 | 2447.0 | 2501.7 | 2722.3 | 3018.0  | 3093.1  | 3024.3  | 2827.2  |
| 27.5° | 2683.2 | 2692.6 | 2722.3 | 2655.1 | 2569.0 | 2586.2 | 2797.4 | 3108.8  | 3263.7  | 3171.4  | 2932.0  |
| 30°   | 2949.2 | 2932.0 | 2925.7 | 2850.6 | 2738.0 | 2714.5 | 2883.5 | 3241.8  | 3487.4  | 3357.6  | 3055.6  |
| 32.5° | 3129.1 | 3171.4 | 3169.8 | 3066.5 | 2930.4 | 2878.8 | 2989.9 | 3366.9  | 3726.8  | 3606.3  | 3284.0  |
| 35°   | 3485.8 | 3529.7 | 3495.2 | 3343.5 | 3183.9 | 3080.6 | 3143.2 | 3529.7  | 4000.6  | 3906.7  | 3478.0  |
| 37.5° | 3941.1 | 4044.4 | 3970.9 | 3690.8 | 3465.5 | 3352.9 | 3356.0 | 3706.4  | 4280.6  | 4204.0  | 3686.1  |
| 40°   | 4255.6 | 4394.9 | 4293.2 | 4030.3 | 3790.9 | 3684.5 | 3642.3 | 3916.1  | 4615.5  | 4534.1  | 4011.5  |
| 42.5° | 4645.2 | 4761.0 | 4707.8 | 4448.0 | 4168.0 | 4077.2 | 3992.8 | 4266.6  | 5127.1  | 5089.5  | 4429.3  |
| 45°   | 5070.7 | 5125.5 | 5108.3 | 4944.0 | 4632.7 | 4601.4 | 4415.2 | 4728.1  | 5729.4  | 5745.1  | 4951.8  |
| 47.5° | 5466.6 | 5496.3 | 5529.2 | 5410.3 | 5216.2 | 5242.8 | 4901.8 | 5222.5  | 6314.6  | 6417.8  | 5533.9  |
| 50°   | 5568.3 | 5670.0 | 5746.6 | 5826.4 | 5868.7 | 6048.6 | 5438.4 | 5829.6  | 6987.3  | 7187.6  | 6181.6  |
| 52.5° | 5465.0 | 5457.2 | 5690.3 | 5940.6 | 6363.1 | 6740.1 | 6169.1 | 6583.7  | 7581.9  | 7977.7  | 6774.6  |
| 55°   | 4995.6 | 4980.0 | 5355.5 | 5687.2 | 6511.7 | 7125.0 | 7212.6 | 7588.1  | 8300.0  | 8814.7  | 7577.2  |
| 57.5° | 4174.3 | 4077.2 | 4487.2 | 5031.6 | 6189.4 | 7167.3 | 8260.9 | 9079.2  | 9404.6  | 9991.3  | 8802.2  |
| 60°   | 2805.3 | 2764.6 | 3157.3 | 3806.6 | 5025.4 | 6568.0 | 8888.3 | 10945.7 | 10961.3 | 11621.6 | 10703.2 |
| 62.5° | 1727.3 | 1735.1 | 1987.0 | 2473.6 | 3518.7 | 5206.9 | 8617.6 | 12436.7 | 12439.8 | 13101.6 | 12267.7 |
| 65°   | 1129.6 | 1134.3 | 1337.7 | 1606.8 | 2198.2 | 3531.2 | 7126.6 | 12554.0 | 13467.7 | 14082.6 | 12984.3 |
| 66°   | 1006.0 | 1007.6 | 1182.8 | 1401.8 | 1821.2 | 2889.7 | 6294.2 | 12249.0 | 13699.3 | 14212.5 | 12974.9 |
| 67.5° | 848.0  | 868.3  | 1009.1 | 1178.1 | 1420.6 | 2076.2 | 4994.1 | 11366.5 | 13580.4 | 14031.0 | 12680.8 |
| 70°   | 663.4  | 674.3  | 785.4  | 957.5  | 1065.5 | 1201.6 | 2968.0 | 9265.3  | 12430.4 | 13161.1 | 11610.6 |
| 72.5° | 532.0  | 541.3  | 625.8  | 777.6  | 865.2  | 791.7  | 1616.2 | 6722.9  | 9819.2  | 10598.3 | 9132.3  |
| 75°   | 449.0  | 450.6  | 491.3  | 611.7  | 711.9  | 594.5  | 860.5  | 4315.1  | 6300.5  | 6663.5  | 5594.9  |
| 77.5° | 363.0  | 369.2  | 397.4  | 466.2  | 572.6  | 467.8  | 513.2  | 2417.2  | 3163.5  | 3190.1  | 2586.2  |
| 80°   | 295.7  | 298.8  | 316.0  | 339.5  | 436.5  | 345.8  | 347.3  | 1179.7  | 1356.5  | 1325.2  | 1051.4  |
| 82.5° | 233.1  | 236.2  | 256.6  | 251.9  | 320.7  | 247.2  | 215.9  | 567.9   | 624.3   | 611.7   | 483.4   |
| 85°   | 131.4  | 131.4  | 201.8  | 201.8  | 203.4  | 156.5  | 131.4  | 267.5   | 330.1   | 308.2   | 226.9   |
| 87.5° | 42.2   | 43.8   | 61.0   | 64.1   | 101.7  | 70.4   | 64.1   | 100.1   | 156.5   | 137.7   | 81.4    |
| 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°    | 1796.1 | 1796.1 | 1796.1 | 1796.1 | 1796.1 | 1796.1 | 1796.1 | 1796.1 | 1796.1 | 1796.1 | 1796.1 |
| 2.5°  | 1833.7 | 1808.6 | 1797.7 | 1761.7 | 1752.3 | 1728.8 | 1717.9 | 1703.8 | 1699.1 | 1678.8 | 1697.5 |
| 5°    | 1847.7 | 1839.9 | 1796.1 | 1750.7 | 1716.3 | 1700.7 | 1677.2 | 1645.9 | 1642.8 | 1614.6 | 1611.5 |
| 7.5°  | 1907.2 | 1880.6 | 1803.9 | 1755.4 | 1686.6 | 1647.5 | 1595.9 | 1580.2 | 1559.9 | 1550.5 | 1570.8 |
| 10°   | 1999.5 | 1932.2 | 1818.0 | 1696.0 | 1611.5 | 1564.6 | 1527.0 | 1516.1 | 1517.6 | 1511.4 | 1502.0 |
| 12.5° | 2065.2 | 2001.1 | 1794.6 | 1645.9 | 1536.4 | 1491.0 | 1487.9 | 1498.9 | 1516.1 | 1508.2 | 1519.2 |
| 15°   | 2159.1 | 2038.6 | 1777.3 | 1563.0 | 1475.4 | 1462.9 | 1461.3 | 1494.2 | 1492.6 | 1492.6 | 1491.0 |
| 17.5° | 2246.7 | 2076.2 | 1714.8 | 1491.0 | 1411.2 | 1420.6 | 1431.6 | 1430.0 | 1445.7 | 1451.9 | 1462.9 |
| 20°   | 2357.8 | 2120.0 | 1627.1 | 1419.1 | 1362.7 | 1359.6 | 1358.0 | 1359.6 | 1375.3 | 1384.6 | 1376.8 |
| 22.5° | 2454.8 | 2129.4 | 1553.6 | 1350.2 | 1304.8 | 1292.3 | 1272.0 | 1292.3 | 1284.5 | 1287.6 | 1297.0 |
| 25°   | 2539.3 | 2130.9 | 1448.8 | 1298.6 | 1247.0 | 1218.8 | 1203.1 | 1201.6 | 1187.5 | 1185.9 | 1185.9 |
| 27.5° | 2609.7 | 2077.7 | 1356.5 | 1226.6 | 1178.1 | 1151.5 | 1150.0 | 1132.7 | 1096.8 | 1073.3 | 1076.4 |
| 30°   | 2664.4 | 2037.1 | 1292.3 | 1164.0 | 1117.1 | 1112.4 | 1098.3 | 1059.2 | 1012.3 | 982.5  | 982.5  |
| 32.5° | 2761.5 | 1955.7 | 1204.7 | 1099.9 | 1076.4 | 1070.2 | 1037.3 | 1002.9 | 959.1  | 930.9  | 926.2  |
| 35°   | 2833.4 | 1880.6 | 1146.8 | 1045.1 | 1034.2 | 1021.7 | 993.5  | 955.9  | 943.4  | 937.2  | 941.9  |
| 37.5° | 2914.8 | 1796.1 | 1076.4 | 998.2  | 1009.1 | 985.7  | 952.8  | 935.6  | 979.4  | 968.5  | 973.2  |
| 40°   | 3044.6 | 1736.7 | 1007.6 | 970.0  | 981.0  | 954.4  | 912.1  | 905.9  | 960.6  | 921.5  | 912.1  |
| 42.5° | 3282.5 | 1735.1 | 965.3  | 927.8  | 935.6  | 915.3  | 877.7  | 874.6  | 896.5  | 849.6  | 835.5  |
| 45°   | 3578.2 | 1789.9 | 934.0  | 896.5  | 890.2  | 887.1  | 874.6  | 860.5  | 841.7  | 780.7  | 765.1  |
| 47.5° | 3931.7 | 1879.0 | 927.8  | 849.6  | 857.4  | 884.0  | 868.3  | 832.3  | 783.8  | 744.7  | 736.9  |
| 50°   | 4360.4 | 2063.7 | 912.1  | 815.1  | 829.2  | 871.5  | 858.9  | 808.9  | 765.1  | 740.0  | 735.3  |
| 52.5° | 4834.5 | 2296.8 | 891.8  | 761.9  | 793.2  | 860.5  | 866.8  | 819.8  | 755.7  | 733.8  | 730.7  |
| 55°   | 5393.0 | 2641.0 | 868.3  | 704.1  | 751.0  | 849.6  | 866.8  | 788.5  | 743.2  | 743.2  | 740.0  |
| 57.5° | 6496.1 | 3260.5 | 819.8  | 650.9  | 713.4  | 829.2  | 841.7  | 790.1  | 744.7  | 744.7  | 738.5  |
| 60°   | 8113.8 | 4227.4 | 727.5  | 610.2  | 677.5  | 801.1  | 823.0  | 766.6  | 727.5  | 736.9  | 735.3  |
| 62.5° | 9379.5 | 4521.6 | 649.3  | 571.1  | 641.5  | 749.4  | 797.9  | 741.6  | 707.2  | 741.6  | 744.7  |
| 65°   | 9650.2 | 4224.3 | 569.5  | 528.8  | 591.4  | 699.4  | 761.9  | 705.6  | 677.5  | 744.7  | 747.9  |
| 66°   | 9553.2 | 3992.8 | 541.3  | 516.3  | 569.5  | 674.3  | 740.0  | 693.1  | 661.8  | 741.6  | 743.2  |
| 67.5° | 9121.4 | 3645.4 | 510.0  | 489.7  | 539.8  | 638.3  | 715.0  | 675.9  | 636.8  | 732.2  | 718.1  |
| 70°   | 8182.7 | 3091.6 | 456.9  | 442.8  | 497.5  | 578.9  | 657.1  | 632.1  | 597.7  | 674.3  | 649.3  |
| 72.5° | 6302.1 | 2470.4 | 400.5  | 402.1  | 449.0  | 517.9  | 599.2  | 582.0  | 552.3  | 591.4  | 575.8  |
| 75°   | 3837.9 | 1578.6 | 348.9  | 352.0  | 391.1  | 460.0  | 544.5  | 532.0  | 496.0  | 517.9  | 510.0  |
| 77.5° | 1700.7 | 782.3  | 294.1  | 300.4  | 331.7  | 405.2  | 474.1  | 453.7  | 416.2  | 420.9  | 417.7  |
| 80°   | 660.2  | 370.8  | 239.4  | 247.2  | 267.5  | 323.9  | 392.7  | 373.9  | 341.1  | 334.8  | 331.7  |
| 82.5° | 317.6  | 206.5  | 184.6  | 187.7  | 195.6  | 258.2  | 337.9  | 314.5  | 270.7  | 242.5  | 242.5  |
| 85°   | 159.6  | 128.3  | 129.9  | 118.9  | 129.9  | 175.2  | 228.4  | 190.9  | 158.0  | 140.8  | 143.9  |
| 87.5° | 64.1   | 64.1   | 64.1   | 54.8   | 57.9   | 82.9   | 106.4  | 72.0   | 65.7   | 39.1   | 39.1   |
| 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)