

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: P476509

Luminaire Tested: **IFLD-L-SA8A-727-U-T2**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P476509  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA8A-727-U-T2  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens  
Light Source: (128) 2700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

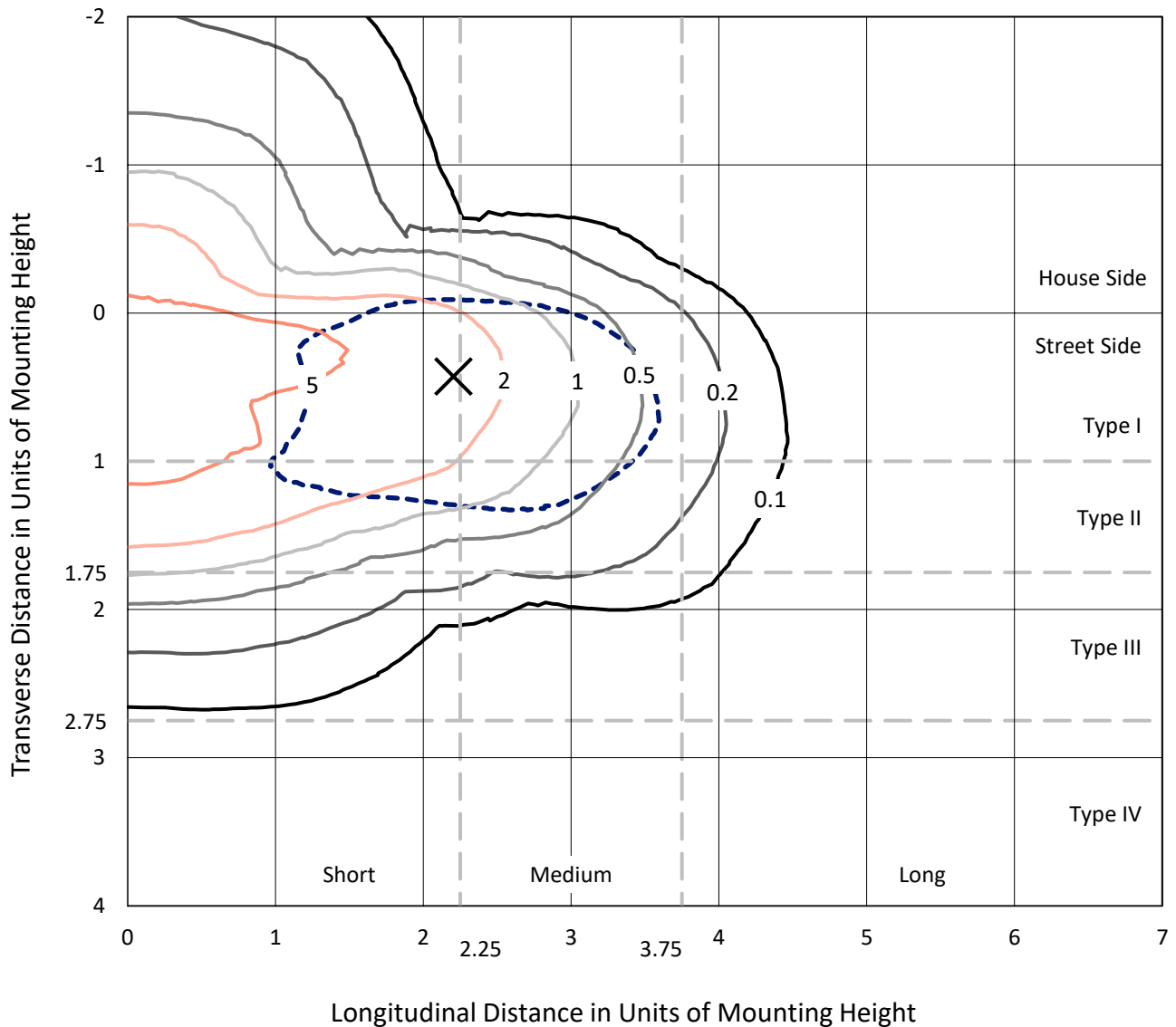
Lumens per Lamp: N/A  
Luminaire Lumens: 28613.9 lumens  
Efficiency: N/A  
Efficacy: 115.5 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G4

Input Watts (W): 247.8  
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

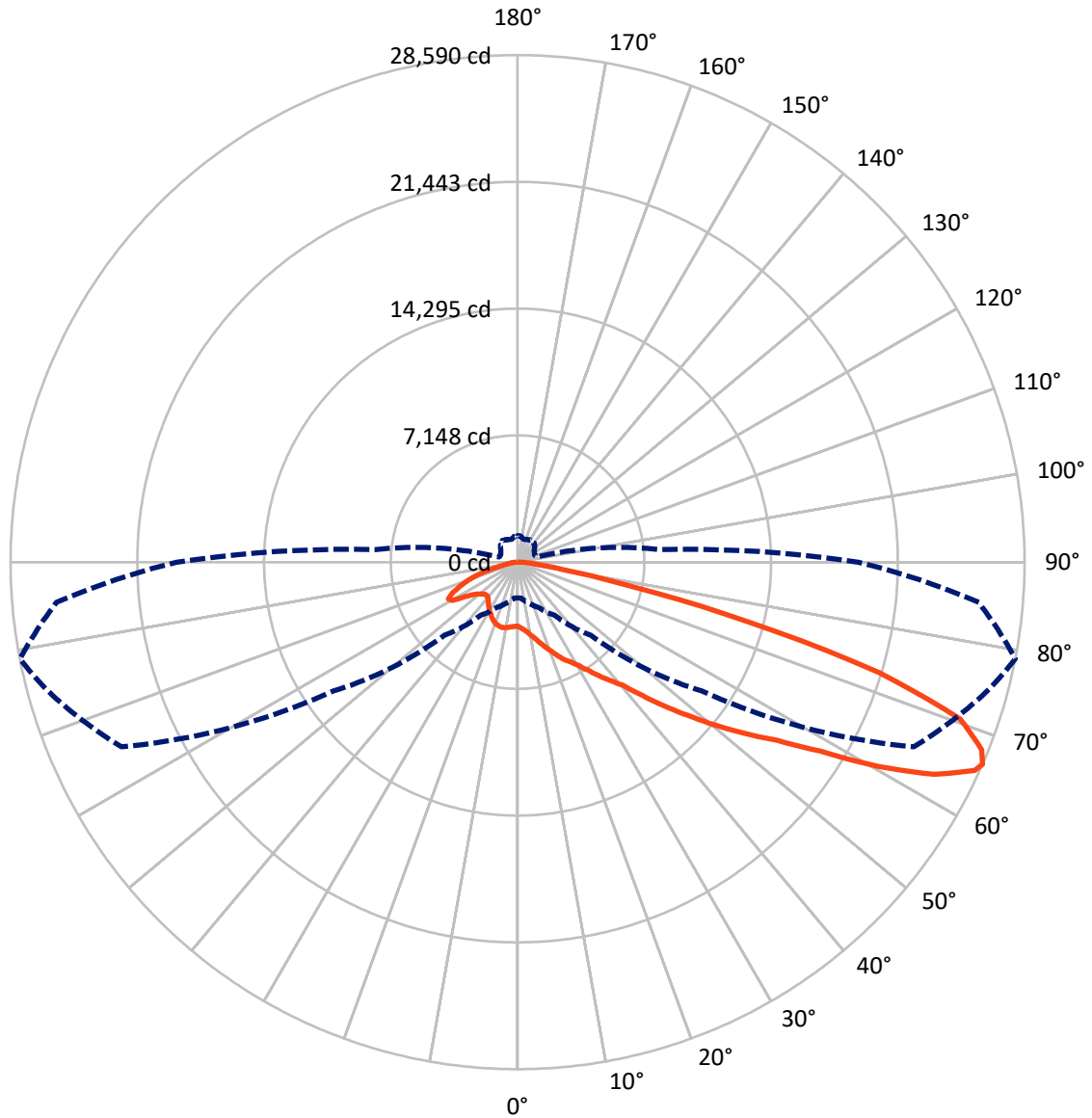
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 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    | 5778.2   | 0.0    | 5778.2  |
|                    | % Fixture | 20.2     | 0.0    | 20.2    |
| <b>Street Side</b> | Lumens    | 22835.7  | 0.0    | 22835.7 |
|                    | % Fixture | 79.8     | 0.0    | 79.8    |
| <b>Total</b>       | Lumens    | 28613.9  | 0.0    | 28613.9 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 355.3   | 1.2       |
| 10°-20°   | 1097.1  | 3.8       |
| 20°-30°   | 1883.2  | 6.6       |
| 30°-40°   | 2909.1  | 10.2      |
| 40°-50°   | 4659.7  | 16.3      |
| 50°-60°   | 6957.3  | 24.3      |
| 60°-70°   | 7148.6  | 25.0      |
| 70°-80°   | 3168.9  | 11.1      |
| 80°-90°   | 434.8   | 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°    | 28613.9 | 100.0     |
| 0°-180°   | 28613.9 | 100.0     |

**Coefficient of Utilization**



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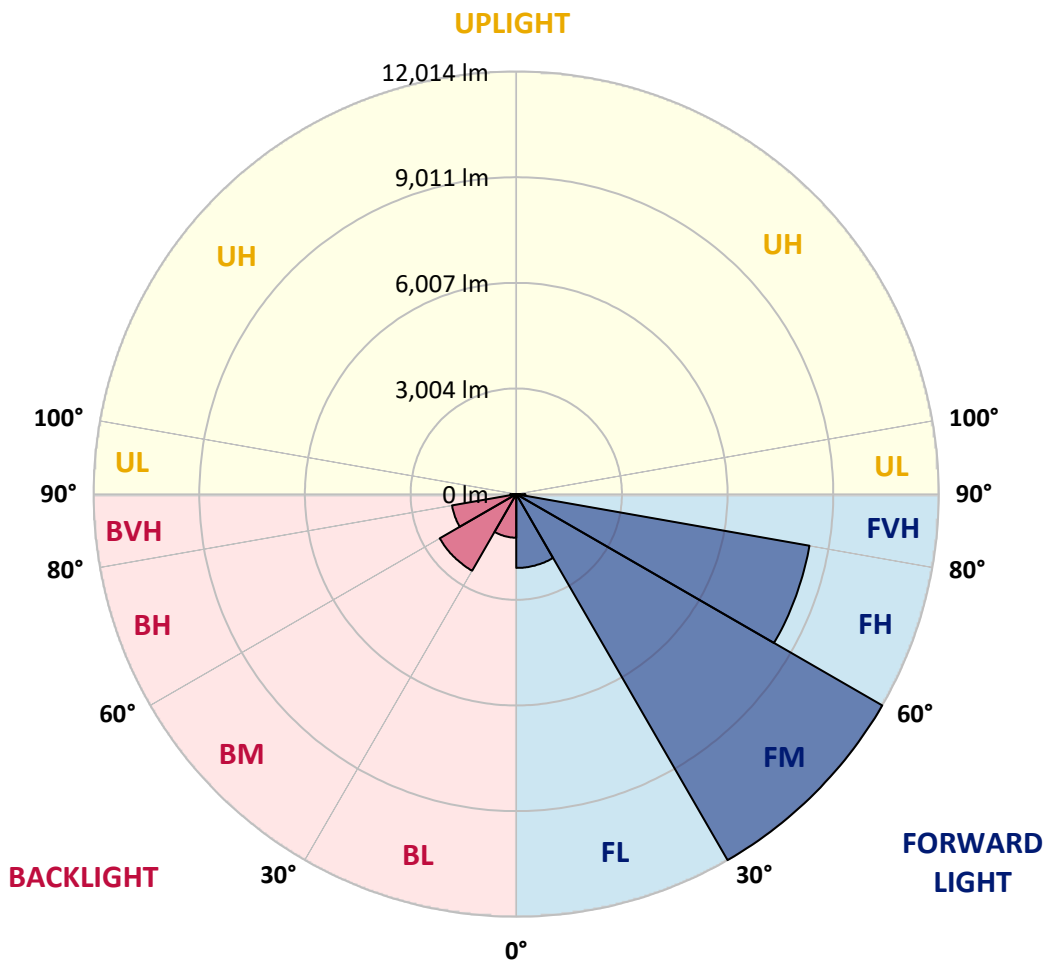
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|----------------|---------|-----------|-------------------------|------|----------|
|                |         |           | B                       | U    | G        |
| FL (0°-30°)    | 2097.6  | 7.3       |                         |      |          |
| FM (30°-60°)   | 12014.0 | 42.0      |                         |      |          |
| FH (60°-80°)   | 8463.4  | 29.6      |                         |      | G4/12000 |
| FVH (80°-90°)  | 260.8   | 0.9       |                         |      | G3/500   |
| BL (0°-30°)    | 1238.0  | 4.3       | B3/2500                 |      |          |
| BM (30°-60°)   | 2512.1  | 8.8       | B3/5000                 |      |          |
| BH (60°-80°)   | 1854.1  | 6.5       | B3/2500                 |      | G3/2500  |
| BVH (80°-90°)  | 174.0   | 0.6       |                         |      | G2/225   |
| UL (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |          |
| UH (100°-180°) | 0.0     | 0.0       |                         | U0/0 |          |

**BUG Rating: B3-U0-G4**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 79°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 3613.1  | 3613.1  | 3613.1  | 3613.1  | 3613.1  | 3613.1  | 3613.1  | 3613.1  | 3613.1  | 3613.1  | 3613.1  |
| 2.5°  | 3842.9  | 3846.0  | 3846.0  | 3833.5  | 3836.6  | 3846.0  | 3811.4  | 3735.9  | 3735.9  | 3723.3  | 3701.3  |
| 5°    | 4079.0  | 4063.2  | 4041.2  | 4044.3  | 4031.7  | 4031.7  | 3994.0  | 3921.6  | 3858.6  | 3833.5  | 3767.4  |
| 7.5°  | 4110.4  | 4126.2  | 4123.0  | 4160.8  | 4179.7  | 4179.7  | 4198.5  | 4138.7  | 4044.3  | 3984.5  | 3918.4  |
| 10°   | 4173.4  | 4132.5  | 4129.3  | 4217.4  | 4245.8  | 4311.9  | 4387.4  | 4355.9  | 4277.2  | 4192.3  | 4104.1  |
| 12.5° | 4211.1  | 4236.3  | 4236.3  | 4280.4  | 4346.5  | 4444.0  | 4576.2  | 4636.0  | 4513.3  | 4425.2  | 4289.8  |
| 15°   | 4267.8  | 4233.2  | 4333.9  | 4371.7  | 4497.5  | 4566.8  | 4755.6  | 4909.8  | 4828.0  | 4721.0  | 4507.0  |
| 17.5° | 4293.0  | 4270.9  | 4327.6  | 4396.8  | 4610.9  | 4714.7  | 4944.5  | 5158.5  | 5089.2  | 5020.0  | 4799.7  |
| 20°   | 4422.0  | 4418.9  | 4444.0  | 4500.7  | 4654.9  | 4859.5  | 5145.9  | 5441.7  | 5466.9  | 5341.0  | 5042.0  |
| 22.5° | 4736.7  | 4695.8  | 4695.8  | 4673.8  | 4739.9  | 4950.8  | 5337.9  | 5747.0  | 5860.3  | 5712.4  | 5315.9  |
| 25°   | 5026.3  | 5083.0  | 5048.3  | 4947.6  | 4922.4  | 5032.6  | 5476.4  | 6071.2  | 6222.3  | 6083.8  | 5687.2  |
| 27.5° | 5397.7  | 5416.6  | 5476.4  | 5341.0  | 5167.9  | 5202.5  | 5627.4  | 6253.8  | 6565.3  | 6379.7  | 5898.1  |
| 30°   | 5932.7  | 5898.1  | 5885.5  | 5734.4  | 5507.8  | 5460.6  | 5800.5  | 6521.3  | 7015.4  | 6754.2  | 6146.8  |
| 32.5° | 6294.7  | 6379.7  | 6376.5  | 6168.8  | 5895.0  | 5791.1  | 6014.6  | 6773.1  | 7497.0  | 7254.6  | 6606.3  |
| 35°   | 7012.3  | 7100.4  | 7031.2  | 6725.9  | 6404.8  | 6197.1  | 6323.0  | 7100.4  | 8047.7  | 7858.9  | 6996.5  |
| 37.5° | 7928.1  | 8135.9  | 7987.9  | 7424.6  | 6971.4  | 6744.7  | 6751.0  | 7456.0  | 8611.1  | 8456.9  | 7415.1  |
| 40°   | 8560.8  | 8840.9  | 8636.3  | 8107.5  | 7626.0  | 7412.0  | 7327.0  | 7877.8  | 9284.6  | 9121.0  | 8069.8  |
| 42.5° | 9344.4  | 9577.3  | 9470.3  | 8947.9  | 8384.5  | 8202.0  | 8032.0  | 8582.8  | 10313.8 | 10238.3 | 8910.1  |
| 45°   | 10200.5 | 10310.7 | 10276.1 | 9945.6  | 9319.3  | 9256.3  | 8881.8  | 9511.3  | 11525.6 | 11557.0 | 9961.3  |
| 47.5° | 10996.8 | 11056.6 | 11122.7 | 10883.5 | 10493.2 | 10546.7 | 9860.6  | 10505.8 | 12702.7 | 12910.4 | 11132.1 |
| 50°   | 11201.4 | 11406.0 | 11560.2 | 11720.7 | 11805.7 | 12167.6 | 10940.1 | 11727.0 | 14056.0 | 14458.9 | 12435.1 |
| 52.5° | 10993.7 | 10977.9 | 11446.9 | 11950.4 | 12800.2 | 13558.7 | 12410.0 | 13244.0 | 15252.0 | 16048.3 | 13628.0 |
| 55°   | 10049.5 | 10018.0 | 10773.3 | 11440.6 | 13099.2 | 14333.0 | 14509.2 | 15264.6 | 16696.6 | 17732.1 | 15242.6 |
| 57.5° | 8397.1  | 8202.0  | 9026.6  | 10121.8 | 12450.9 | 14418.0 | 16617.9 | 18264.0 | 18918.6 | 20098.9 | 17706.9 |
| 60°   | 5643.2  | 5561.3  | 6351.3  | 7657.5  | 10109.2 | 13212.5 | 17880.0 | 22018.8 | 22050.2 | 23378.4 | 21530.9 |
| 62.5° | 3474.7  | 3490.4  | 3997.1  | 4975.9  | 7078.4  | 10474.3 | 17335.5 | 25018.2 | 25024.5 | 26355.8 | 24678.3 |
| 65°   | 2272.4  | 2281.8  | 2691.0  | 3232.3  | 4422.0  | 7103.5  | 14336.1 | 25254.2 | 27092.3 | 28329.2 | 26119.8 |
| 66°   | 2023.7  | 2026.9  | 2379.4  | 2820.0  | 3663.5  | 5813.1  | 12661.7 | 24640.5 | 27558.1 | 28590.4 | 26100.9 |
| 67.5° | 1705.9  | 1746.8  | 2030.0  | 2369.9  | 2857.8  | 4176.5  | 10046.3 | 22865.4 | 27318.9 | 28225.3 | 25509.2 |
| 70°   | 1334.5  | 1356.5  | 1580.0  | 1926.2  | 2143.3  | 2417.2  | 5970.5  | 18638.5 | 25005.6 | 26475.4 | 23356.4 |
| 72.5° | 1070.1  | 1089.0  | 1258.9  | 1564.2  | 1740.5  | 1592.6  | 3251.2  | 13524.1 | 19752.7 | 21320.1 | 18371.0 |
| 75°   | 903.3   | 906.4   | 988.3   | 1230.6  | 1432.0  | 1196.0  | 1731.0  | 8680.4  | 12674.3 | 13404.5 | 11254.9 |
| 77.5° | 730.2   | 742.8   | 799.4   | 937.9   | 1151.9  | 941.1   | 1032.3  | 4862.6  | 6363.9  | 6417.4  | 5202.5  |
| 80°   | 594.8   | 601.1   | 635.8   | 683.0   | 878.1   | 695.6   | 698.7   | 2373.1  | 2728.7  | 2665.8  | 2115.0  |
| 82.5° | 469.0   | 475.2   | 516.2   | 506.7   | 645.2   | 497.3   | 434.3   | 1142.5  | 1255.8  | 1230.6  | 972.5   |
| 85°   | 264.4   | 264.4   | 406.0   | 406.0   | 409.2   | 314.7   | 264.4   | 538.2   | 664.1   | 620.0   | 456.4   |
| 87.5° | 85.0    | 88.1    | 122.7   | 129.0   | 204.6   | 141.6   | 129.0   | 201.4   | 314.7   | 277.0   | 163.7   |
| 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°    | 3613.1  | 3613.1 | 3613.1 | 3613.1 | 3613.1 | 3613.1 | 3613.1 | 3613.1 | 3613.1 | 3613.1 | 3613.1 |
| 2.5°  | 3688.7  | 3638.3 | 3616.3 | 3543.9 | 3525.0 | 3477.8 | 3455.8 | 3427.5 | 3418.0 | 3377.1 | 3414.9 |
| 5°    | 3717.0  | 3701.3 | 3613.1 | 3521.9 | 3452.6 | 3421.2 | 3373.9 | 3311.0 | 3304.7 | 3248.1 | 3241.8 |
| 7.5°  | 3836.6  | 3783.1 | 3628.9 | 3531.3 | 3392.8 | 3314.1 | 3210.3 | 3178.8 | 3137.9 | 3119.0 | 3159.9 |
| 10°   | 4022.3  | 3887.0 | 3657.2 | 3411.7 | 3241.8 | 3147.3 | 3071.8 | 3049.8 | 3052.9 | 3040.3 | 3021.4 |
| 12.5° | 4154.5  | 4025.4 | 3610.0 | 3311.0 | 3090.7 | 2999.4 | 2993.1 | 3015.1 | 3049.8 | 3034.0 | 3056.1 |
| 15°   | 4343.3  | 4101.0 | 3575.4 | 3144.2 | 2967.9 | 2942.8 | 2939.6 | 3005.7 | 3002.6 | 3002.6 | 2999.4 |
| 17.5° | 4519.6  | 4176.5 | 3449.5 | 2999.4 | 2838.9 | 2857.8 | 2879.8 | 2876.7 | 2908.1 | 2920.7 | 2942.8 |
| 20°   | 4743.0  | 4264.6 | 3273.2 | 2854.6 | 2741.3 | 2735.0 | 2731.9 | 2735.0 | 2766.5 | 2785.4 | 2769.7 |
| 22.5° | 4938.2  | 4283.5 | 3125.3 | 2716.2 | 2624.9 | 2599.7 | 2558.8 | 2599.7 | 2584.0 | 2590.3 | 2609.1 |
| 25°   | 5108.1  | 4286.7 | 2914.4 | 2612.3 | 2508.4 | 2451.8 | 2420.3 | 2417.2 | 2388.8 | 2385.7 | 2385.7 |
| 27.5° | 5249.8  | 4179.7 | 2728.7 | 2467.5 | 2369.9 | 2316.4 | 2313.3 | 2278.7 | 2206.3 | 2159.1 | 2165.4 |
| 30°   | 5359.9  | 4097.8 | 2599.7 | 2341.6 | 2247.2 | 2237.8 | 2209.4 | 2130.7 | 2036.3 | 1976.5 | 1976.5 |
| 32.5° | 5555.1  | 3934.2 | 2423.5 | 2212.6 | 2165.4 | 2152.8 | 2086.7 | 2017.4 | 1929.3 | 1872.7 | 1863.2 |
| 35°   | 5699.8  | 3783.1 | 2307.0 | 2102.4 | 2080.4 | 2055.2 | 1998.6 | 1923.0 | 1897.8 | 1885.3 | 1894.7 |
| 37.5° | 5863.5  | 3613.1 | 2165.4 | 2008.0 | 2030.0 | 1982.8 | 1916.7 | 1882.1 | 1970.2 | 1948.2 | 1957.6 |
| 40°   | 6124.7  | 3493.5 | 2026.9 | 1951.3 | 1973.4 | 1919.9 | 1834.9 | 1822.3 | 1932.5 | 1853.8 | 1834.9 |
| 42.5° | 6603.1  | 3490.4 | 1941.9 | 1866.4 | 1882.1 | 1841.2 | 1765.7 | 1759.4 | 1803.4 | 1709.0 | 1680.7 |
| 45°   | 7198.0  | 3600.6 | 1879.0 | 1803.4 | 1790.8 | 1784.5 | 1759.4 | 1731.0 | 1693.3 | 1570.5 | 1539.0 |
| 47.5° | 7909.3  | 3780.0 | 1866.4 | 1709.0 | 1724.7 | 1778.2 | 1746.8 | 1674.4 | 1576.8 | 1498.1 | 1482.4 |
| 50°   | 8771.6  | 4151.3 | 1834.9 | 1639.8 | 1668.1 | 1753.1 | 1727.9 | 1627.2 | 1539.0 | 1488.7 | 1479.2 |
| 52.5° | 9725.3  | 4620.3 | 1794.0 | 1532.8 | 1595.7 | 1731.0 | 1743.6 | 1649.2 | 1520.2 | 1476.1 | 1469.8 |
| 55°   | 10848.9 | 5312.7 | 1746.8 | 1416.3 | 1510.7 | 1709.0 | 1743.6 | 1586.3 | 1495.0 | 1495.0 | 1488.7 |
| 57.5° | 13067.7 | 6559.1 | 1649.2 | 1309.3 | 1435.2 | 1668.1 | 1693.3 | 1589.4 | 1498.1 | 1498.1 | 1485.5 |
| 60°   | 16322.1 | 8504.1 | 1463.5 | 1227.5 | 1362.8 | 1611.4 | 1655.5 | 1542.2 | 1463.5 | 1482.4 | 1479.2 |
| 62.5° | 18868.3 | 9095.8 | 1306.1 | 1148.8 | 1290.4 | 1507.6 | 1605.1 | 1491.8 | 1422.6 | 1491.8 | 1498.1 |
| 65°   | 19412.8 | 8497.8 | 1145.6 | 1063.8 | 1189.7 | 1406.9 | 1532.8 | 1419.4 | 1362.8 | 1498.1 | 1504.4 |
| 66°   | 19217.6 | 8032.0 | 1089.0 | 1038.6 | 1145.6 | 1356.5 | 1488.7 | 1394.3 | 1331.3 | 1491.8 | 1495.0 |
| 67.5° | 18349.0 | 7333.3 | 1026.0 | 985.1  | 1085.8 | 1284.1 | 1438.3 | 1359.7 | 1281.0 | 1473.0 | 1444.6 |
| 70°   | 16460.6 | 6219.1 | 919.0  | 890.7  | 1000.9 | 1164.5 | 1321.9 | 1271.5 | 1202.3 | 1356.5 | 1306.1 |
| 72.5° | 12677.5 | 4969.6 | 805.7  | 808.9  | 903.3  | 1041.8 | 1205.4 | 1170.8 | 1111.0 | 1189.7 | 1158.2 |
| 75°   | 7720.4  | 3175.7 | 701.9  | 708.2  | 786.8  | 925.3  | 1095.3 | 1070.1 | 997.7  | 1041.8 | 1026.0 |
| 77.5° | 3421.2  | 1573.7 | 591.7  | 604.3  | 667.2  | 815.2  | 953.6  | 912.7  | 837.2  | 846.6  | 840.3  |
| 80°   | 1328.2  | 745.9  | 481.5  | 497.3  | 538.2  | 651.5  | 790.0  | 752.2  | 686.1  | 673.5  | 667.2  |
| 82.5° | 638.9   | 415.4  | 371.4  | 377.7  | 393.4  | 519.3  | 679.8  | 632.6  | 544.5  | 487.8  | 487.8  |
| 85°   | 321.0   | 258.1  | 261.2  | 239.2  | 261.2  | 352.5  | 459.5  | 384.0  | 317.9  | 283.3  | 289.6  |
| 87.5° | 129.0   | 129.0  | 129.0  | 110.2  | 116.5  | 166.8  | 214.0  | 144.8  | 132.2  | 78.7   | 78.7   |
| 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)