

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: P480133

Luminaire Tested: **IFLD-L-SA7C-740-U-SL2**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P480133  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7C-740-U-SL2  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens  
Light Source: (112) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

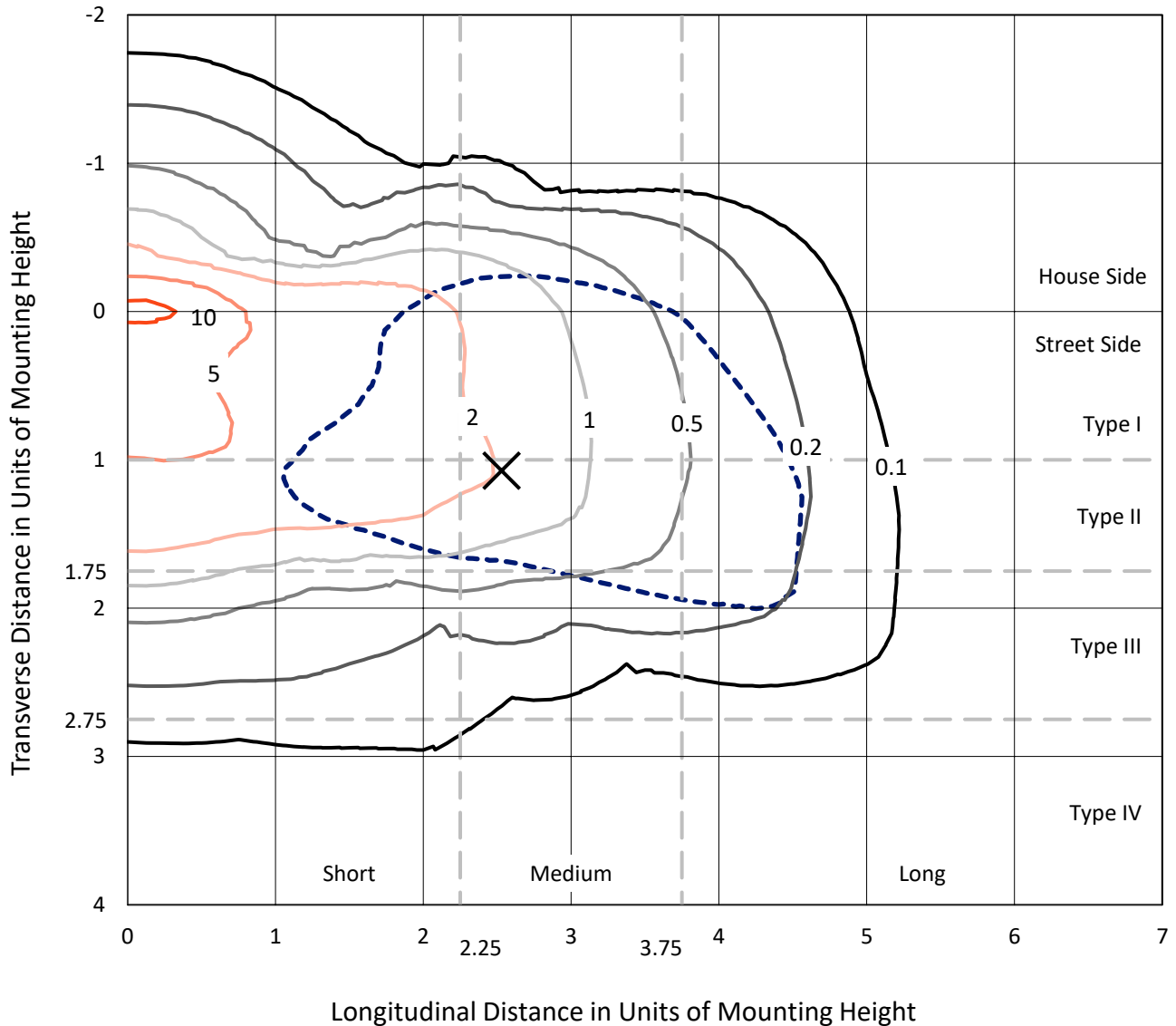
Lumens per Lamp: N/A  
Luminaire Lumens: 44200.4 lumens  
Efficiency: N/A  
Efficacy: 119.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B4 - U0 - G5

Input Watts (W): 369  
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

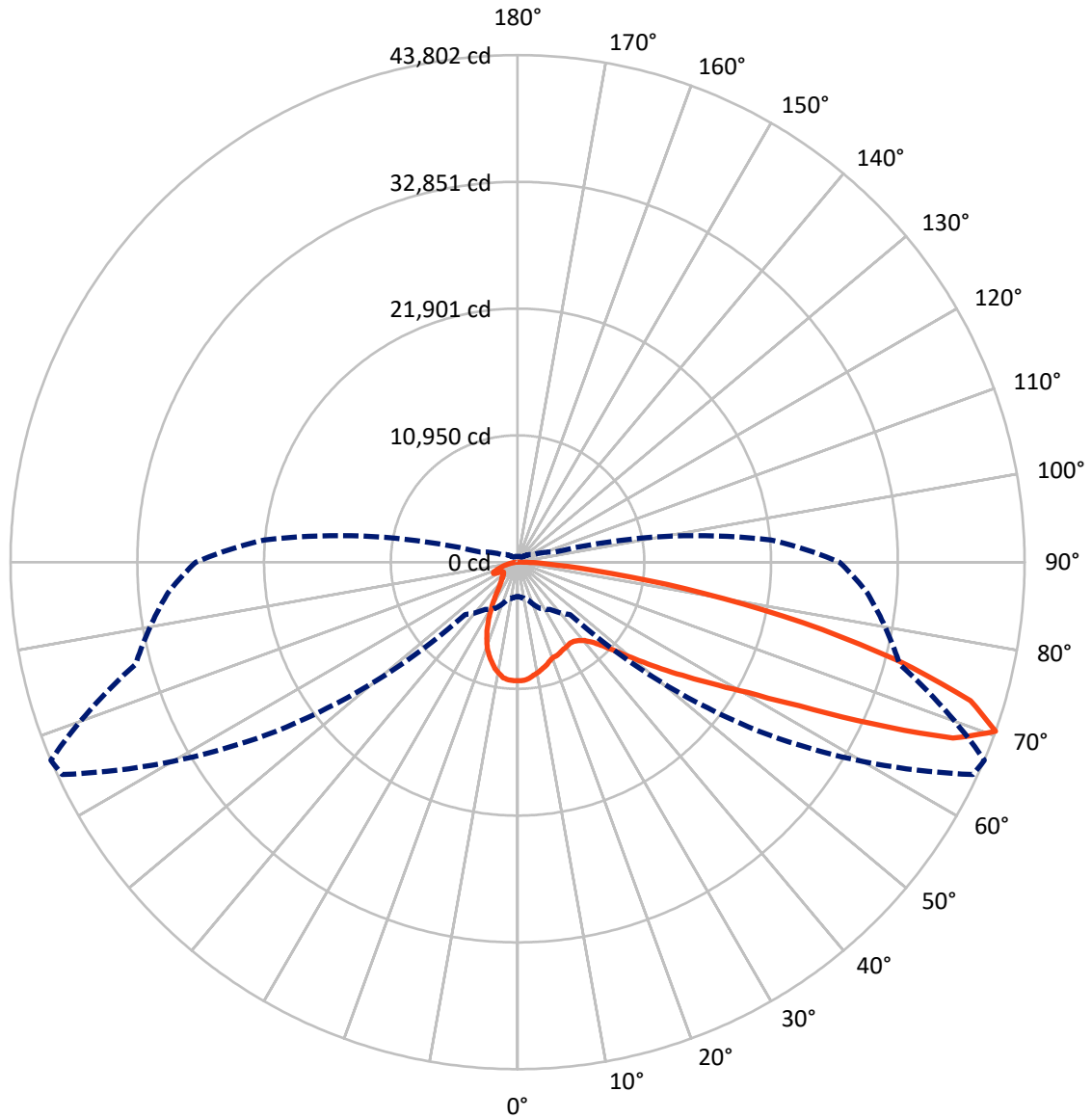
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 11.5 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    | 8608.5   | 0.0    | 8608.5  |
|                    | % Fixture | 19.5     | 0.0    | 19.5    |
| <b>Street Side</b> | Lumens    | 35592.0  | 0.0    | 35592.0 |
|                    | % Fixture | 80.5     | 0.0    | 80.5    |
| <b>Total</b>       | Lumens    | 44200.4  | 0.0    | 44200.4 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 892.8   | 2.0       |
| 10°-20°   | 2138.2  | 4.8       |
| 20°-30°   | 2887.5  | 6.5       |
| 30°-40°   | 3863.7  | 8.7       |
| 40°-50°   | 5681.5  | 12.9      |
| 50°-60°   | 8856.0  | 20.0      |
| 60°-70°   | 10909.1 | 24.7      |
| 70°-80°   | 7708.3  | 17.4      |
| 80°-90°   | 1263.4  | 2.9       |
| 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°    | 44200.4 | 100.0     |
| 0°-180°   | 44200.4 | 100.0     |

**Coefficient of Utilization**

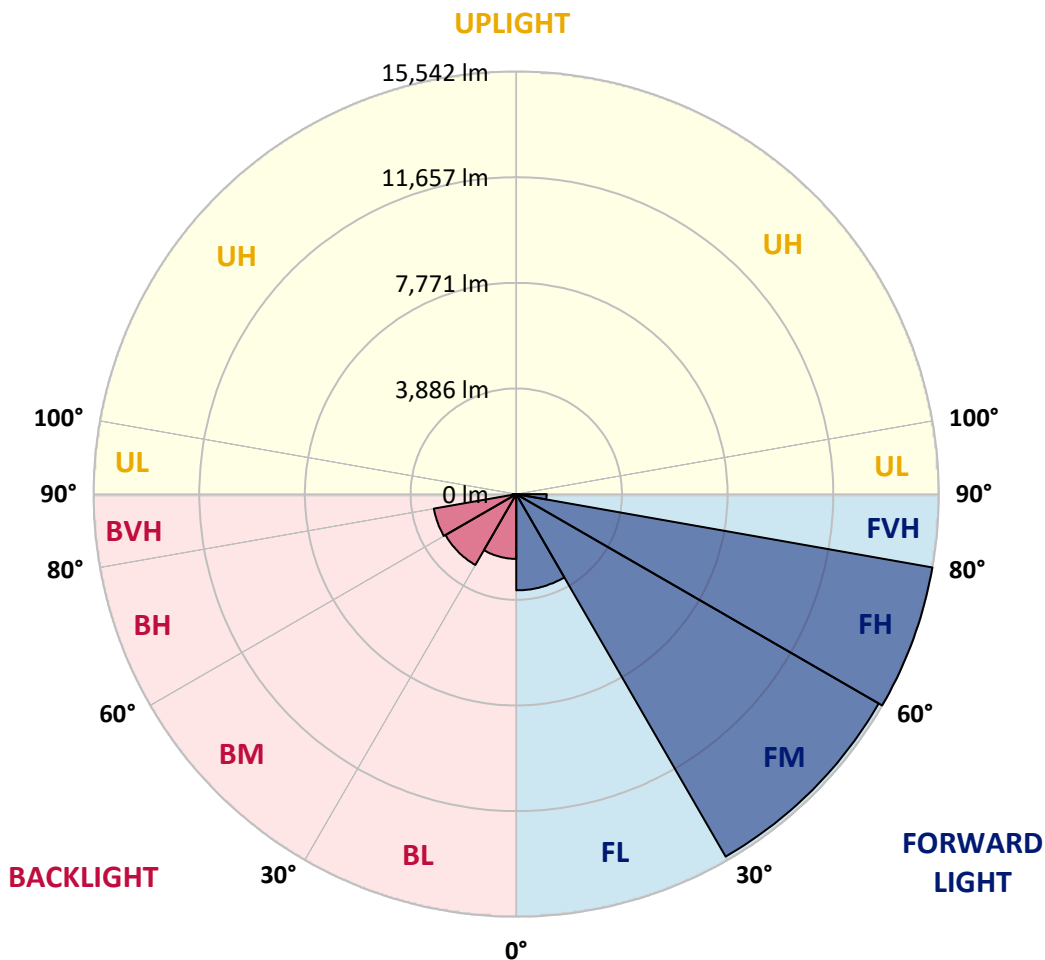


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|---------|-----------|-------------------------|------|---------|
|                |         |           | B                       | U    | G       |
| FL (0°-30°)    | 3537.9  | 8.0       |                         |      |         |
| FM (30°-60°)   | 15394.0 | 34.8      |                         |      |         |
| FH (60°-80°)   | 15542.3 | 35.2      |                         |      | G5      |
| FVH (80°-90°)  | 1117.7  | 2.5       |                         |      | G5      |
| BL (0°-30°)    | 2380.5  | 5.4       | B3/2500                 |      |         |
| BM (30°-60°)   | 3007.1  | 6.8       | B3/5000                 |      |         |
| BH (60°-80°)   | 3075.1  | 7.0       | B4/5000                 |      | G4/5000 |
| BVH (80°-90°)  | 145.8   | 0.3       |                         |      | G2/225  |
| UL (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B4-U0-G5**  
 Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 67°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 10232.3 | 10232.3 | 10232.3 | 10232.3 | 10232.3 | 10232.3 | 10232.3 | 10232.3 | 10232.3 | 10232.3 | 10232.3 |
| 2.5°  | 9527.6  | 9635.3  | 9674.4  | 9733.1  | 9884.8  | 9997.4  | 10065.9 | 10144.2 | 10237.2 | 10315.4 | 10364.4 |
| 5°    | 8862.1  | 8920.8  | 9013.8  | 9077.4  | 9268.2  | 9571.6  | 9777.2  | 10109.9 | 10100.1 | 10222.5 | 10408.4 |
| 7.5°  | 8216.1  | 8274.9  | 8318.9  | 8446.1  | 8720.2  | 8994.2  | 9371.0  | 9909.3  | 9870.1  | 10154.0 | 10442.7 |
| 10°   | 7814.9  | 7770.8  | 7785.5  | 8000.8  | 8216.1  | 8524.4  | 8999.1  | 9547.2  | 9689.1  | 10129.5 | 10540.5 |
| 12.5° | 7438.1  | 7389.1  | 7506.6  | 7643.6  | 7907.9  | 8186.8  | 8754.4  | 9248.7  | 9464.0  | 10041.4 | 10584.6 |
| 15°   | 7203.2  | 7168.9  | 7315.7  | 7374.5  | 7687.7  | 8020.4  | 8421.7  | 9023.6  | 9258.5  | 9933.8  | 10516.1 |
| 17.5° | 7071.1  | 7100.4  | 7154.3  | 7281.5  | 7482.1  | 7765.9  | 8206.4  | 8871.9  | 8974.6  | 9801.6  | 10501.4 |
| 20°   | 7095.5  | 7129.8  | 7134.7  | 7188.5  | 7325.5  | 7545.7  | 7995.9  | 8710.4  | 8778.9  | 9777.2  | 10540.5 |
| 22.5° | 7291.3  | 7242.3  | 7261.9  | 7227.7  | 7266.8  | 7438.1  | 7834.5  | 8495.1  | 8759.3  | 9571.6  | 10457.4 |
| 25°   | 7584.9  | 7516.4  | 7506.6  | 7389.1  | 7315.7  | 7364.7  | 7805.1  | 8441.2  | 8612.5  | 9508.0  | 10452.5 |
| 27.5° | 8103.6  | 8000.8  | 8000.8  | 7824.7  | 7526.2  | 7447.9  | 7721.9  | 8353.2  | 8504.9  | 9449.3  | 10339.9 |
| 30°   | 8602.7  | 8602.7  | 8607.6  | 8358.1  | 8025.3  | 7638.7  | 7756.2  | 8318.9  | 8416.8  | 9273.1  | 10188.2 |
| 32.5° | 9209.5  | 9194.8  | 9170.4  | 9048.0  | 8534.2  | 7956.8  | 7922.5  | 8274.9  | 8323.8  | 9214.4  | 10144.2 |
| 35°   | 9801.6  | 9762.5  | 9953.3  | 9845.7  | 9322.1  | 8578.3  | 8093.8  | 8294.4  | 8402.1  | 9126.3  | 10007.2 |
| 37.5° | 10246.9 | 10271.4 | 10667.8 | 10736.3 | 10286.1 | 9282.9  | 8578.3  | 8490.2  | 8592.9  | 9253.6  | 10007.2 |
| 40°   | 10824.4 | 10922.2 | 11294.1 | 11524.1 | 11250.1 | 10212.7 | 9346.5  | 8818.0  | 8891.4  | 9537.4  | 10222.5 |
| 42.5° | 11582.9 | 11666.0 | 12140.7 | 12439.2 | 12360.9 | 11396.9 | 10105.0 | 9503.1  | 9444.4  | 10012.1 | 10545.4 |
| 45°   | 12586.0 | 12600.7 | 13080.3 | 13491.3 | 13652.8 | 12635.0 | 11308.8 | 10369.3 | 10320.3 | 10829.3 | 11137.6 |
| 47.5° | 13780.0 | 13765.3 | 14063.9 | 14504.3 | 14939.8 | 14112.8 | 12693.7 | 11685.6 | 11509.5 | 11998.8 | 12121.1 |
| 50°   | 14934.9 | 14871.3 | 14939.8 | 15502.5 | 16339.3 | 15962.5 | 14377.0 | 13295.6 | 13119.4 | 13388.6 | 13599.0 |
| 52.5° | 15571.0 | 15649.3 | 15463.4 | 16207.2 | 17826.9 | 18149.9 | 16608.5 | 15218.7 | 15067.0 | 15199.1 | 15566.1 |
| 55°   | 15125.7 | 15287.2 | 15164.9 | 15869.5 | 18477.8 | 20816.8 | 19495.6 | 17445.2 | 17249.5 | 17200.6 | 17802.5 |
| 57.5° | 13232.0 | 13525.6 | 13550.0 | 14665.7 | 18252.7 | 22881.9 | 23557.2 | 20073.0 | 19779.4 | 19280.3 | 19901.8 |
| 60°   | 10158.9 | 10452.5 | 10677.6 | 11998.8 | 16324.6 | 24115.1 | 28264.7 | 23811.7 | 22842.7 | 21550.9 | 21922.8 |
| 62.5° | 7120.0  | 7320.6  | 7545.7  | 8358.1  | 12586.0 | 23390.8 | 32336.1 | 29077.0 | 27290.9 | 23943.8 | 24408.7 |
| 65°   | 5187.1  | 5343.7  | 5573.7  | 6053.2  | 7731.7  | 19353.7 | 34225.0 | 35330.9 | 33637.8 | 26987.5 | 26928.8 |
| 67.5° | 3905.0  | 4002.9  | 4306.3  | 5074.5  | 5358.4  | 11954.8 | 32267.6 | 41937.1 | 40566.9 | 30368.9 | 28954.7 |
| 70°   | 2955.7  | 3038.8  | 3322.7  | 4374.8  | 5006.0  | 6410.5  | 25455.9 | 43410.0 | 43801.5 | 34161.4 | 30315.1 |
| 72.5° | 2035.7  | 2128.7  | 2446.7  | 3645.6  | 4766.2  | 5084.3  | 15977.2 | 39436.5 | 40919.2 | 35722.4 | 28856.8 |
| 75°   | 1247.8  | 1311.5  | 1497.4  | 2764.8  | 4732.0  | 4971.8  | 8793.6  | 32316.5 | 33887.3 | 33006.5 | 25245.4 |
| 77.5° | 880.8   | 875.9   | 910.2   | 1619.7  | 4100.7  | 5001.1  | 5422.0  | 23679.5 | 25206.3 | 24325.5 | 17132.1 |
| 80°   | 641.0   | 645.9   | 680.2   | 968.9   | 2784.4  | 5084.3  | 4272.0  | 15859.8 | 16314.9 | 12683.9 | 6757.9  |
| 82.5° | 386.6   | 406.2   | 489.3   | 655.7   | 1673.6  | 4590.1  | 3949.0  | 8813.2  | 8245.5  | 4071.4  | 1859.5  |
| 85°   | 205.5   | 205.5   | 288.7   | 415.9   | 890.6   | 3425.4  | 3802.2  | 4193.7  | 3513.5  | 1262.5  | 690.0   |
| 87.5° | 48.9    | 48.9    | 83.2    | 166.4   | 357.2   | 1639.3  | 2593.5  | 1668.7  | 1335.9  | 425.7   | 283.8   |
| 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°    | 10232.3 | 10232.3 | 10232.3 | 10232.3 | 10232.3 | 10232.3 | 10232.3 | 10232.3 | 10232.3 | 10232.3 | 10232.3 |
| 2.5°  | 10344.8 | 10286.1 | 10359.5 | 10212.7 | 10095.2 | 10100.1 | 9919.1  | 9909.3  | 9884.8  | 9757.6  | 9801.6  |
| 5°    | 10462.3 | 10413.3 | 10330.1 | 10168.6 | 9909.3  | 9649.9  | 9493.3  | 9292.7  | 9209.5  | 9165.5  | 9185.1  |
| 7.5°  | 10574.8 | 10486.7 | 10246.9 | 10021.8 | 9620.6  | 9131.2  | 8847.4  | 8578.3  | 8235.7  | 8196.6  | 8128.1  |
| 10°   | 10604.2 | 10418.2 | 10109.9 | 9630.4  | 9097.0  | 8553.8  | 7907.9  | 7408.7  | 7144.5  | 6938.9  | 6860.7  |
| 12.5° | 10560.1 | 10481.8 | 9889.7  | 9273.1  | 8465.7  | 7614.2  | 6860.7  | 6156.0  | 5666.6  | 5412.2  | 5343.7  |
| 15°   | 10555.2 | 10418.2 | 9645.0  | 8730.0  | 7697.4  | 6586.6  | 5514.9  | 4668.4  | 4154.6  | 3944.1  | 3944.1  |
| 17.5° | 10560.1 | 10232.3 | 9356.3  | 8181.9  | 6792.1  | 5289.8  | 4110.5  | 3415.6  | 3131.8  | 3102.5  | 3126.9  |
| 20°   | 10462.3 | 10095.2 | 9052.9  | 7536.0  | 5656.9  | 3973.5  | 2985.0  | 2701.2  | 2701.2  | 2740.3  | 2755.0  |
| 22.5° | 10374.2 | 9889.7  | 8573.4  | 6738.3  | 4502.0  | 2877.4  | 2427.2  | 2344.0  | 2437.0  | 2505.5  | 2534.8  |
| 25°   | 10251.8 | 9718.4  | 8084.0  | 5911.3  | 3425.4  | 2319.5  | 2109.1  | 2128.7  | 2216.7  | 2339.1  | 2329.3  |
| 27.5° | 10075.7 | 9419.9  | 7501.7  | 4952.2  | 2549.5  | 2001.4  | 1947.6  | 1957.4  | 2050.4  | 2104.2  | 2094.4  |
| 30°   | 9875.0  | 9116.5  | 6963.4  | 3998.0  | 2021.0  | 1835.1  | 1830.2  | 1854.6  | 1869.3  | 1898.7  | 1893.8  |
| 32.5° | 9620.6  | 8715.3  | 6390.9  | 3107.4  | 1820.4  | 1742.1  | 1722.5  | 1707.8  | 1722.5  | 1717.6  | 1702.9  |
| 35°   | 9439.5  | 8500.0  | 5808.6  | 2368.4  | 1707.8  | 1658.9  | 1644.2  | 1619.7  | 1600.2  | 1570.8  | 1565.9  |
| 37.5° | 9390.6  | 8284.7  | 5196.9  | 1932.9  | 1619.7  | 1595.3  | 1546.3  | 1502.3  | 1477.8  | 1463.1  | 1453.4  |
| 40°   | 9361.2  | 8142.7  | 4599.9  | 1698.0  | 1546.3  | 1521.9  | 1463.1  | 1404.4  | 1380.0  | 1365.3  | 1370.2  |
| 42.5° | 9464.0  | 8064.4  | 3993.1  | 1580.6  | 1482.7  | 1438.7  | 1375.1  | 1306.6  | 1301.7  | 1291.9  | 1306.6  |
| 45°   | 9826.1  | 8162.3  | 3430.3  | 1497.4  | 1419.1  | 1345.7  | 1262.5  | 1228.3  | 1223.4  | 1213.6  | 1223.4  |
| 47.5° | 10648.2 | 8407.0  | 2950.8  | 1443.6  | 1350.6  | 1287.0  | 1198.9  | 1150.0  | 1145.1  | 1140.2  | 1140.2  |
| 50°   | 11783.5 | 9160.6  | 2549.5  | 1380.0  | 1306.6  | 1218.5  | 1135.3  | 1081.5  | 1071.7  | 1052.1  | 1052.1  |
| 52.5° | 13564.7 | 10428.0 | 2309.7  | 1345.7  | 1228.3  | 1154.9  | 1066.8  | 1008.1  | 983.6   | 964.0   | 964.0   |
| 55°   | 15571.0 | 11998.8 | 2265.7  | 1287.0  | 1145.1  | 1076.6  | 998.3   | 939.5   | 915.1   | 890.6   | 880.8   |
| 57.5° | 17856.3 | 14078.5 | 2578.9  | 1247.8  | 1086.4  | 998.3   | 910.2   | 856.4   | 836.8   | 812.3   | 802.5   |
| 60°   | 19985.0 | 16153.4 | 3552.7  | 1189.1  | 1032.5  | 924.9   | 836.8   | 783.0   | 758.5   | 734.0   | 734.0   |
| 62.5° | 22446.4 | 18722.4 | 5201.8  | 1189.1  | 983.6   | 846.6   | 758.5   | 719.3   | 704.7   | 680.2   | 675.3   |
| 65°   | 25358.0 | 21379.6 | 6405.6  | 1262.5  | 968.9   | 778.1   | 685.1   | 645.9   | 631.3   | 616.6   | 611.7   |
| 67.5° | 27574.7 | 22906.4 | 5510.1  | 1458.3  | 1032.5  | 719.3   | 611.7   | 587.2   | 577.4   | 562.7   | 553.0   |
| 70°   | 27809.6 | 21976.6 | 3322.7  | 1575.7  | 1096.1  | 660.6   | 548.1   | 523.6   | 523.6   | 508.9   | 499.1   |
| 72.5° | 25700.5 | 19500.5 | 2236.3  | 1404.4  | 993.4   | 592.1   | 484.5   | 464.9   | 455.1   | 445.3   | 440.4   |
| 75°   | 21506.8 | 16539.9 | 1766.5  | 1120.6  | 763.4   | 489.3   | 420.8   | 401.3   | 386.6   | 381.7   | 371.9   |
| 77.5° | 14445.5 | 10751.0 | 1306.6  | 875.9   | 562.7   | 396.4   | 352.3   | 332.8   | 318.1   | 313.2   | 298.5   |
| 80°   | 5549.2  | 4095.8  | 841.7   | 636.2   | 396.4   | 313.2   | 278.9   | 259.4   | 249.6   | 234.9   | 225.1   |
| 82.5° | 1634.4  | 1326.1  | 469.8   | 391.5   | 254.5   | 215.3   | 200.6   | 186.0   | 171.3   | 156.6   | 151.7   |
| 85°   | 675.3   | 606.8   | 288.7   | 205.5   | 156.6   | 127.2   | 117.4   | 102.8   | 88.1    | 78.3    | 68.5    |
| 87.5° | 313.2   | 259.4   | 132.1   | 78.3    | 53.8    | 29.4    | 14.7    | 4.9     | 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)