

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: P478526

Luminaire Tested: **IFLD-S-SA6E-735-U-T4W**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P478526  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA6E-735-U-T4W  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens  
Light Source: (96) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

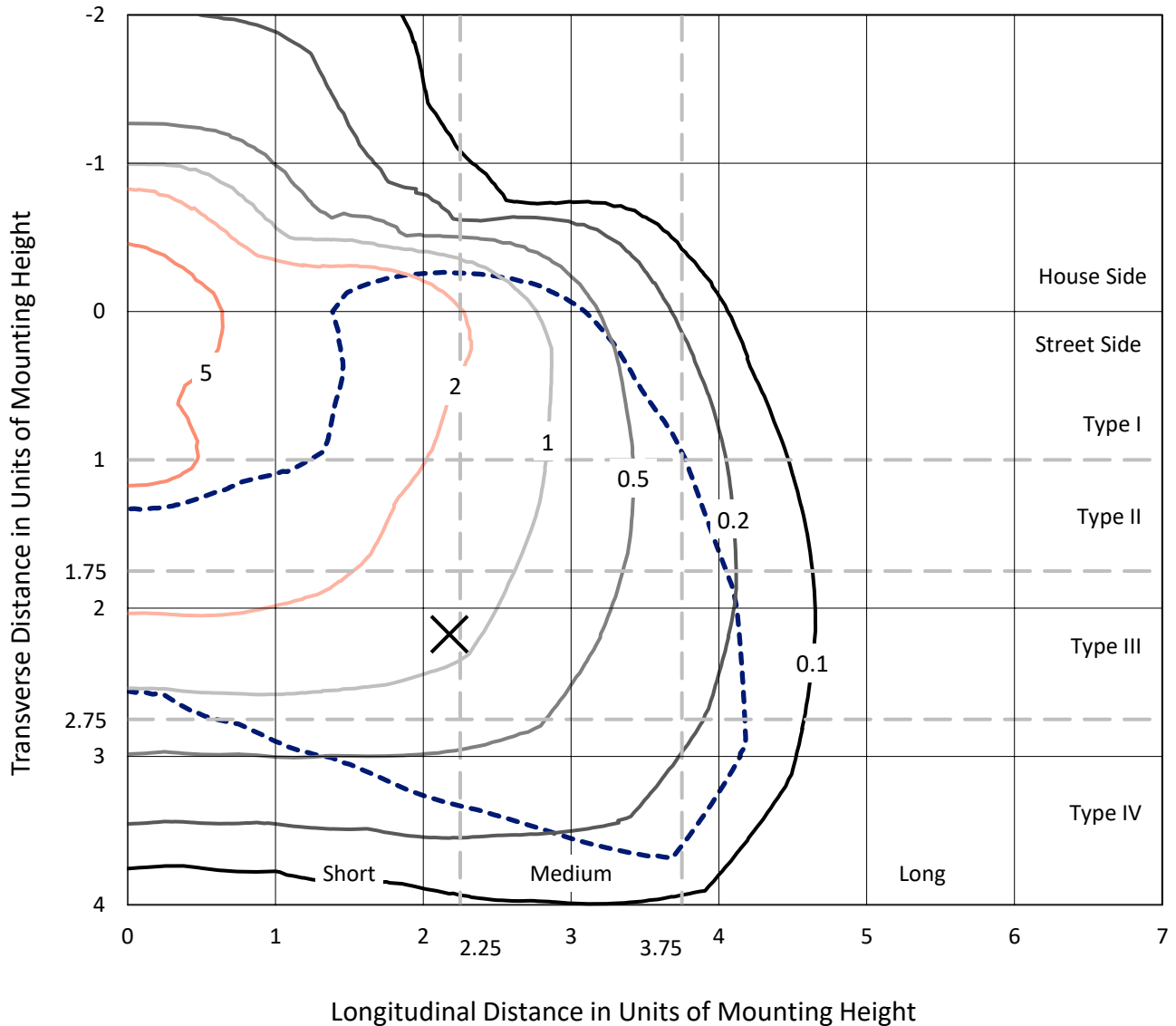
Lumens per Lamp: N/A  
Luminaire Lumens: 52750.6 lumens  
Efficiency: N/A  
Efficacy: 113.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B4 - U0 - G5

Input Watts (W): 464.2  
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

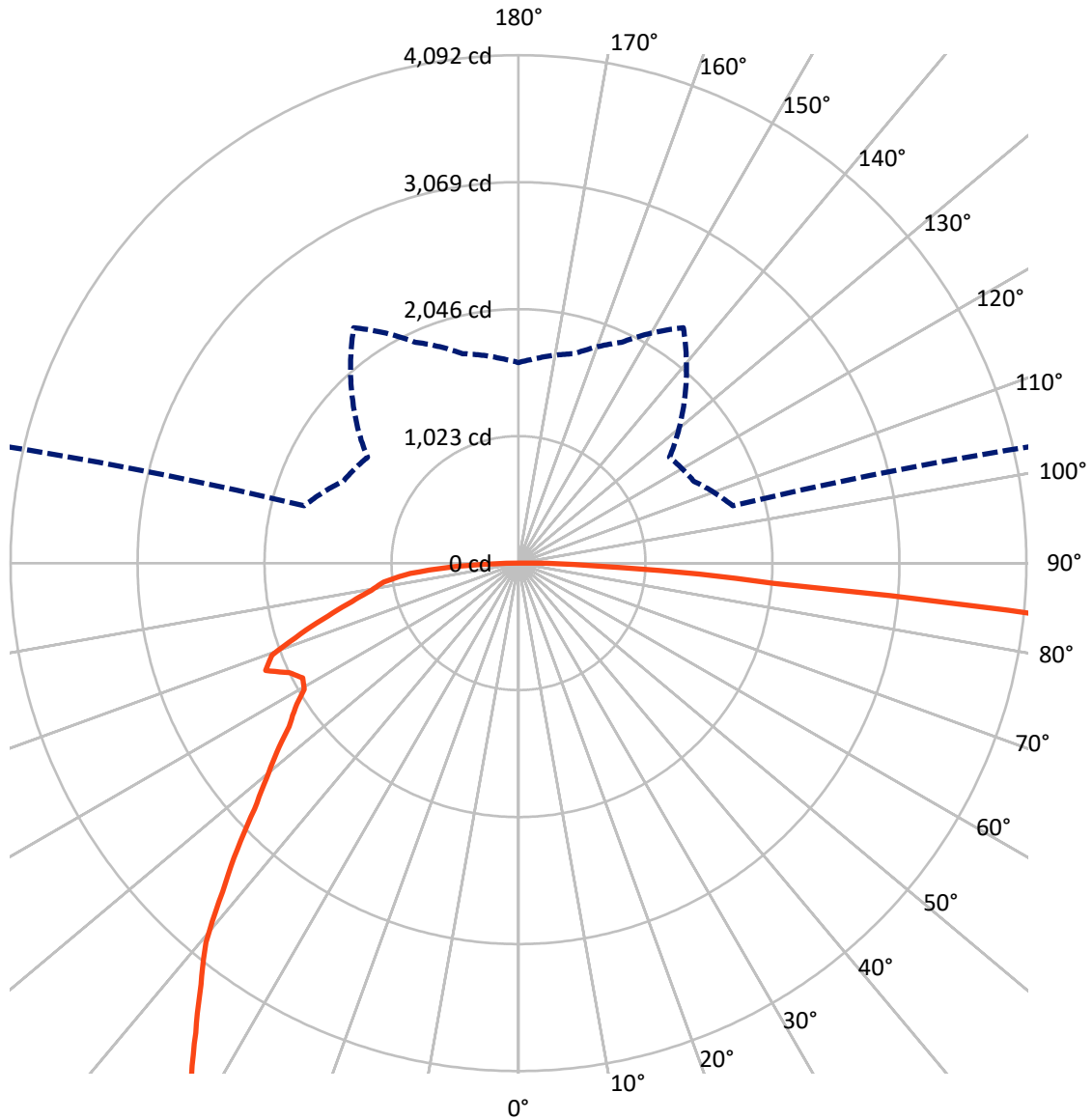
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.7 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 72-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 11742.6  | 0.0    | 11742.6 |
|                    | % Fixture | 22.3     | 0.0    | 22.3    |
| <b>Street Side</b> | Lumens    | 41008.0  | 0.0    | 41008.0 |
|                    | % Fixture | 77.7     | 0.0    | 77.7    |
| <b>Total</b>       | Lumens    | 52750.6  | 0.0    | 52750.6 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 555.9   | 1.1       |
| 10°-20°   | 1849.5  | 3.5       |
| 20°-30°   | 3123.2  | 5.9       |
| 30°-40°   | 4322.0  | 8.2       |
| 40°-50°   | 6182.2  | 11.7      |
| 50°-60°   | 9971.2  | 18.9      |
| 60°-70°   | 14706.1 | 27.9      |
| 70°-80°   | 10679.2 | 20.2      |
| 80°-90°   | 1361.3  | 2.6       |
| 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°    | 52750.6 | 100.0     |
| 0°-180°   | 52750.6 | 100.0     |

**Coefficient of Utilization**



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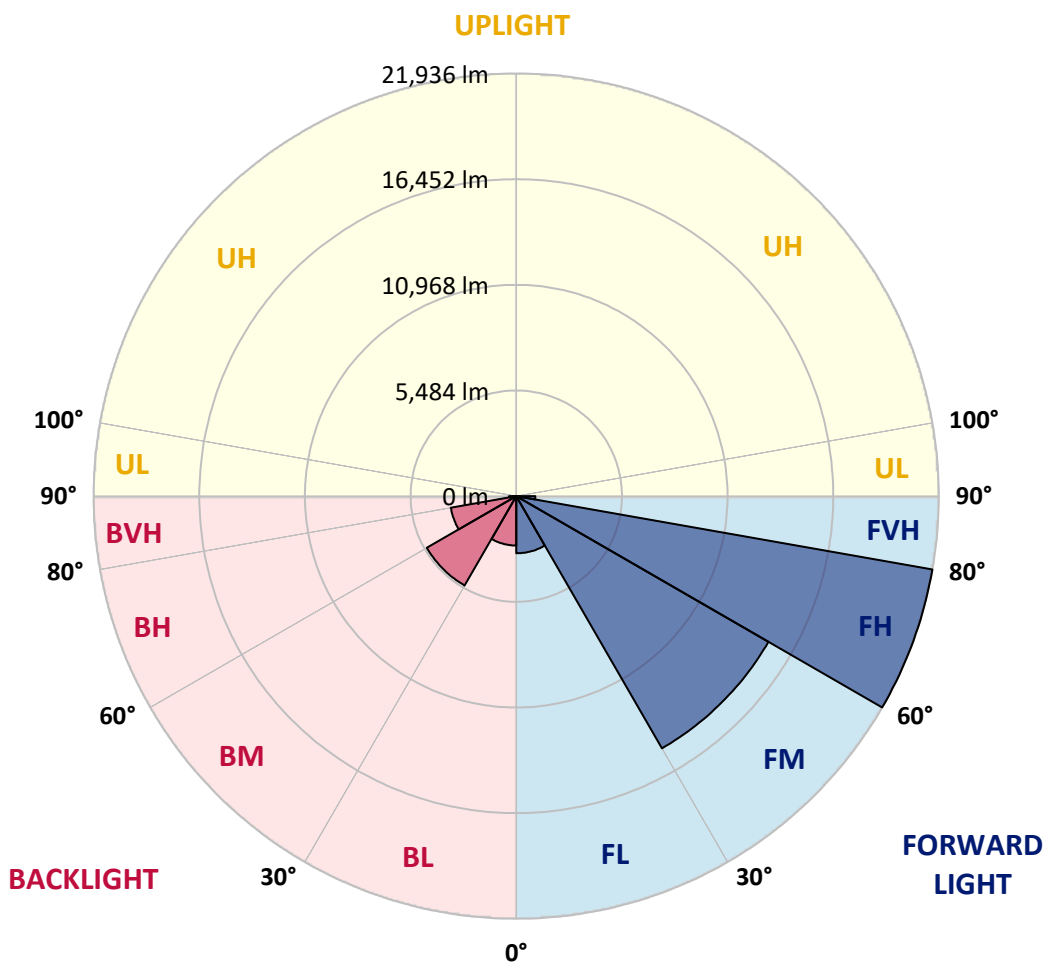
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|---------|-----------|-------------------------|------|---------|
|                |         |           | B                       | U    | G       |
| FL (0°-30°)    | 2964.6  | 5.6       |                         |      |         |
| FM (30°-60°)   | 15116.5 | 28.7      |                         |      |         |
| FH (60°-80°)   | 21936.1 | 41.6      |                         |      | G5      |
| FVH (80°-90°)  | 990.9   | 1.9       |                         |      | G5      |
| BL (0°-30°)    | 2563.9  | 4.9       | B4/5000                 |      |         |
| BM (30°-60°)   | 5359.0  | 10.2      | B4/8500                 |      |         |
| BH (60°-80°)   | 3449.2  | 6.5       | B4/5000                 |      | G4/5000 |
| BVH (80°-90°)  | 370.5   | 0.7       |                         |      | G3/500  |
| UL (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B4-U0-G5**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 44°     | 45°     | 55°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 5432.4  | 5432.4  | 5432.4  | 5432.4  | 5432.4  | 5432.4  | 5432.4  | 5432.4  | 5432.4  | 5432.4  | 5432.4  |
| 2.5°  | 5722.5  | 5756.6  | 5722.5  | 5716.8  | 5659.9  | 5620.1  | 5654.2  | 5603.0  | 5546.1  | 5523.4  | 5472.2  |
| 5°    | 6245.8  | 6251.5  | 6188.9  | 6194.6  | 6075.1  | 5950.0  | 5972.8  | 5819.2  | 5654.2  | 5591.6  | 5489.2  |
| 7.5°  | 6780.5  | 6717.9  | 6626.9  | 6598.5  | 6410.8  | 6274.2  | 6257.2  | 6120.6  | 5864.7  | 5722.5  | 5580.3  |
| 10°   | 7127.5  | 7150.2  | 7002.3  | 6877.2  | 6717.9  | 6553.0  | 6547.3  | 6291.3  | 6143.4  | 5932.9  | 5750.9  |
| 12.5° | 7434.7  | 7440.3  | 7315.2  | 7116.1  | 6917.0  | 6712.2  | 6740.7  | 6626.9  | 6376.6  | 6177.5  | 5995.5  |
| 15°   | 7673.6  | 7639.4  | 7502.9  | 7320.9  | 7110.4  | 6951.1  | 6934.1  | 6837.4  | 6626.9  | 6461.9  | 6160.5  |
| 17.5° | 7741.8  | 7724.8  | 7588.2  | 7394.8  | 7190.1  | 7070.6  | 7116.1  | 6956.8  | 6871.5  | 6723.6  | 6433.5  |
| 20°   | 7611.0  | 7571.2  | 7548.4  | 7332.3  | 7184.4  | 7173.0  | 7133.2  | 7167.3  | 7025.1  | 6888.6  | 6678.1  |
| 22.5° | 7372.1  | 7355.0  | 7343.6  | 7173.0  | 7104.7  | 7155.9  | 7224.2  | 7275.4  | 7252.6  | 7121.8  | 6882.9  |
| 25°   | 7127.5  | 7207.1  | 7133.2  | 7053.5  | 7150.2  | 7281.1  | 7264.0  | 7429.0  | 7429.0  | 7389.1  | 7190.1  |
| 27.5° | 7298.1  | 7246.9  | 7190.1  | 7150.2  | 7184.4  | 7389.1  | 7377.8  | 7576.9  | 7650.8  | 7576.9  | 7349.3  |
| 30°   | 7724.8  | 7673.6  | 7508.6  | 7332.3  | 7286.8  | 7508.6  | 7565.5  | 7741.8  | 7776.0  | 7593.9  | 7400.5  |
| 32.5° | 8526.8  | 8498.4  | 8236.7  | 7719.1  | 7440.3  | 7565.5  | 7593.9  | 7793.0  | 7764.6  | 7650.8  | 7571.2  |
| 35°   | 9715.7  | 9619.0  | 9254.9  | 8378.9  | 7764.6  | 7639.4  | 7565.5  | 7724.8  | 7832.8  | 7776.0  | 7702.0  |
| 37.5° | 11018.3 | 10910.2 | 10460.9 | 9351.6  | 8350.5  | 7838.5  | 7781.6  | 7912.5  | 8037.6  | 8009.2  | 7855.6  |
| 40°   | 12264.1 | 12264.1 | 11860.2 | 10568.9 | 9220.8  | 8322.0  | 8333.4  | 8185.5  | 8299.3  | 8248.1  | 8276.5  |
| 42.5° | 13492.7 | 13447.2 | 13282.3 | 11996.7 | 10153.7 | 9129.8  | 8947.8  | 8578.0  | 8782.8  | 8765.7  | 8805.5  |
| 45°   | 14738.5 | 14704.3 | 14658.8 | 13327.8 | 11490.4 | 10221.9 | 10125.2 | 9459.7  | 9647.4  | 9567.8  | 9738.4  |
| 47.5° | 15733.9 | 15773.8 | 15773.8 | 14812.4 | 12918.2 | 11678.2 | 11535.9 | 10483.6 | 10842.0 | 10881.8 | 10921.6 |
| 50°   | 16581.5 | 16598.6 | 16581.5 | 16228.8 | 14510.9 | 13344.8 | 13054.7 | 11985.3 | 12343.7 | 12656.5 | 13020.6 |
| 52.5° | 17753.3 | 17776.1 | 17696.4 | 17559.9 | 16672.5 | 15096.8 | 14772.6 | 13583.7 | 14317.5 | 14647.5 | 15301.6 |
| 55°   | 19198.1 | 19027.5 | 18879.6 | 18982.0 | 18748.8 | 17025.2 | 16689.6 | 15233.4 | 16336.9 | 16774.9 | 18083.2 |
| 57.5° | 19465.5 | 19613.4 | 19988.8 | 20802.2 | 21137.9 | 18902.3 | 18708.9 | 17258.4 | 18617.9 | 18999.0 | 21183.4 |
| 60°   | 20409.8 | 20165.2 | 21086.7 | 22850.0 | 23225.5 | 21348.3 | 21149.2 | 19476.9 | 20887.6 | 21285.8 | 24044.6 |
| 62.5° | 21029.8 | 21018.4 | 22383.6 | 24476.9 | 25330.2 | 23885.3 | 23481.5 | 22360.8 | 23339.2 | 23726.1 | 27161.8 |
| 65°   | 20847.8 | 21012.7 | 23435.9 | 25432.6 | 27087.9 | 26769.3 | 26536.1 | 24841.0 | 26132.2 | 26098.1 | 29192.5 |
| 67.5° | 19186.8 | 19653.2 | 22770.4 | 26120.8 | 29704.5 | 30284.7 | 30210.8 | 28327.9 | 28401.9 | 27679.4 | 30097.0 |
| 70°   | 16883.0 | 16723.7 | 19954.7 | 25404.1 | 31012.8 | 34454.3 | 34437.2 | 30921.8 | 30444.0 | 28026.4 | 27503.1 |
| 72°   | 12969.4 | 12793.1 | 15449.5 | 21814.8 | 30324.5 | 36120.9 | 36632.9 | 32719.3 | 30421.2 | 26587.3 | 22719.2 |
| 72.5° | 11774.9 | 11621.3 | 14266.3 | 20534.9 | 29562.3 | 36553.2 | 36314.3 | 32787.6 | 30182.3 | 25910.4 | 21223.2 |
| 75°   | 5421.0  | 5244.6  | 7127.5  | 12571.2 | 23060.5 | 32389.4 | 33202.8 | 30682.9 | 26359.7 | 20625.9 | 12713.4 |
| 77.5° | 1615.5  | 1564.3  | 2292.4  | 5074.0  | 13401.7 | 23862.6 | 24175.4 | 23151.5 | 18401.8 | 11297.0 | 4715.6  |
| 80°   | 898.8   | 904.4   | 1183.2  | 1899.9  | 5893.1  | 13794.2 | 14920.5 | 14300.5 | 9027.4  | 3731.5  | 1570.0  |
| 82.5° | 500.6   | 529.0   | 739.5   | 1126.3  | 2707.6  | 6331.1  | 6814.6  | 6570.0  | 3265.1  | 1752.0  | 858.9   |
| 85°   | 261.7   | 273.0   | 386.8   | 603.0   | 1535.9  | 2002.3  | 2059.2  | 2207.1  | 1695.1  | 1194.6  | 460.8   |
| 87.5° | 102.4   | 102.4   | 142.2   | 250.3   | 568.8   | 620.0   | 557.5   | 676.9   | 972.7   | 773.6   | 227.5   |
| 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°    | 5432.4  | 5432.4  | 5432.4 | 5432.4 | 5432.4 | 5432.4 | 5432.4 | 5432.4 | 5432.4 | 5432.4 | 5432.4 |
| 2.5°  | 5517.7  | 5472.2  | 5466.5 | 5392.5 | 5415.3 | 5352.7 | 5358.4 | 5347.0 | 5352.7 | 5341.3 | 5312.9 |
| 5°    | 5489.2  | 5455.1  | 5358.4 | 5421.0 | 5364.1 | 5443.7 | 5506.3 | 5483.6 | 5500.6 | 5494.9 | 5500.6 |
| 7.5°  | 5529.1  | 5483.6  | 5472.2 | 5438.0 | 5489.2 | 5523.4 | 5574.6 | 5716.8 | 5705.4 | 5722.5 | 5756.6 |
| 10°   | 5648.5  | 5597.3  | 5563.2 | 5614.4 | 5585.9 | 5694.0 | 5750.9 | 5824.9 | 5955.7 | 5961.4 | 5893.1 |
| 12.5° | 5881.7  | 5847.6  | 5779.3 | 5790.7 | 5887.4 | 5921.6 | 5955.7 | 6001.2 | 6086.5 | 6069.5 | 6132.0 |
| 15°   | 6149.1  | 6075.1  | 6035.3 | 6023.9 | 6046.7 | 6086.5 | 6080.8 | 6126.3 | 6171.8 | 6211.7 | 6194.6 |
| 17.5° | 6342.5  | 6245.8  | 6257.2 | 6314.1 | 6308.4 | 6297.0 | 6223.0 | 6200.3 | 6223.0 | 6245.8 | 6234.4 |
| 20°   | 6541.6  | 6553.0  | 6467.6 | 6416.4 | 6393.7 | 6279.9 | 6223.0 | 6154.8 | 6086.5 | 6120.6 | 6171.8 |
| 22.5° | 6791.9  | 6740.7  | 6615.5 | 6461.9 | 6348.2 | 6279.9 | 6103.6 | 5984.1 | 5984.1 | 6018.3 | 6001.2 |
| 25°   | 7076.3  | 6968.2  | 6752.1 | 6473.3 | 6331.1 | 6041.0 | 5915.9 | 5898.8 | 5853.3 | 5904.5 | 5927.2 |
| 27.5° | 7298.1  | 7201.4  | 6905.6 | 6433.5 | 6041.0 | 5807.8 | 5733.8 | 5711.1 | 5785.0 | 5790.7 | 5881.7 |
| 30°   | 7389.1  | 7360.7  | 6928.4 | 6331.1 | 5745.2 | 5369.8 | 5324.3 | 5426.7 | 5506.3 | 5625.8 | 5631.5 |
| 32.5° | 7508.6  | 7520.0  | 6962.5 | 6092.2 | 5358.4 | 4983.0 | 4914.7 | 5039.9 | 5267.4 | 5364.1 | 5438.0 |
| 35°   | 7707.7  | 7764.6  | 6934.1 | 5796.4 | 4948.9 | 4590.5 | 4579.1 | 4613.2 | 4835.1 | 5005.7 | 5102.4 |
| 37.5° | 8054.7  | 8043.3  | 6928.4 | 5443.7 | 4624.6 | 4249.2 | 4158.2 | 4169.6 | 4317.4 | 4459.7 | 4442.6 |
| 40°   | 8521.1  | 8475.6  | 6911.3 | 4983.0 | 4203.7 | 3959.1 | 3805.5 | 3748.6 | 3737.2 | 3697.4 | 3708.8 |
| 42.5° | 9158.2  | 9067.2  | 6905.6 | 4516.5 | 3822.6 | 3560.9 | 3452.8 | 3304.9 | 3196.8 | 2992.1 | 3003.4 |
| 45°   | 10045.6 | 9886.3  | 6757.7 | 4078.5 | 3447.1 | 3231.0 | 3066.0 | 2957.9 | 2724.7 | 2468.7 | 2468.7 |
| 47.5° | 11416.5 | 10898.9 | 6763.4 | 3595.0 | 3083.1 | 2906.7 | 2793.0 | 2605.3 | 2355.0 | 2150.2 | 2127.4 |
| 50°   | 13435.9 | 12252.7 | 6570.0 | 3213.9 | 2787.3 | 2667.8 | 2548.4 | 2332.2 | 2093.3 | 1951.1 | 1968.2 |
| 52.5° | 16041.1 | 14272.0 | 6564.3 | 2872.6 | 2554.1 | 2468.7 | 2337.9 | 2144.5 | 1968.2 | 1877.2 | 1843.0 |
| 55°   | 19146.9 | 16945.6 | 6769.1 | 2593.9 | 2315.2 | 2269.6 | 2212.8 | 2053.5 | 1882.8 | 1803.2 | 1797.5 |
| 57.5° | 22326.7 | 19556.5 | 7099.0 | 2394.8 | 2110.4 | 2144.5 | 2104.7 | 1979.5 | 1843.0 | 1752.0 | 1740.6 |
| 60°   | 25153.8 | 21627.1 | 6433.5 | 2155.9 | 1928.3 | 2002.3 | 2059.2 | 1951.1 | 1877.2 | 1871.5 | 1831.6 |
| 62.5° | 27286.9 | 22514.4 | 4892.0 | 1973.9 | 1831.6 | 1968.2 | 2121.7 | 2190.0 | 2155.9 | 2201.4 | 2207.1 |
| 65°   | 28066.3 | 21979.7 | 3367.5 | 1877.2 | 1757.7 | 2047.8 | 2389.1 | 2366.3 | 2167.3 | 2081.9 | 2127.4 |
| 67.5° | 26974.1 | 19812.5 | 2497.2 | 1763.4 | 1706.5 | 2212.8 | 2542.7 | 2258.3 | 1956.8 | 1945.4 | 1911.3 |
| 70°   | 23197.0 | 16792.0 | 2036.4 | 1643.9 | 1621.2 | 2121.7 | 2474.4 | 2093.3 | 1843.0 | 1769.1 | 1734.9 |
| 72°   | 18481.4 | 13077.5 | 1786.1 | 1558.6 | 1484.7 | 1894.2 | 2315.2 | 1962.5 | 1746.3 | 1655.3 | 1615.5 |
| 72.5° | 16871.6 | 12121.8 | 1752.0 | 1518.8 | 1456.2 | 1843.0 | 2235.5 | 1922.7 | 1723.6 | 1643.9 | 1581.4 |
| 75°   | 9254.9  | 6206.0  | 1541.5 | 1393.6 | 1228.7 | 1592.7 | 2070.6 | 1803.2 | 1626.9 | 1513.1 | 1501.7 |
| 77.5° | 3441.4  | 2406.2  | 1331.1 | 1234.4 | 1063.7 | 1376.6 | 1882.8 | 1712.2 | 1479.0 | 1336.8 | 1308.3 |
| 80°   | 1319.7  | 1268.5  | 1086.5 | 1041.0 | 893.1  | 1205.9 | 1734.9 | 1535.9 | 1257.1 | 1114.9 | 1069.4 |
| 82.5° | 802.1   | 739.5   | 824.8  | 813.4  | 682.6  | 1097.8 | 1632.6 | 1439.1 | 1114.9 | 904.4  | 876.0  |
| 85°   | 438.0   | 438.0   | 574.5  | 551.8  | 477.8  | 876.0  | 1234.4 | 955.6  | 705.4  | 580.2  | 591.6  |
| 87.5° | 193.4   | 227.5   | 307.2  | 290.1  | 261.7  | 494.9  | 603.0  | 506.3  | 352.7  | 238.9  | 256.0  |
| 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)