

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: P484427

Luminaire Tested: **IFLD-L-SA8B-740-U-SL3-HSS**

Issue Date: 02/26/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P484427  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA8B-740-U-SL3-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3  
distribution lens with House Side Shield  
Light Source: (128) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

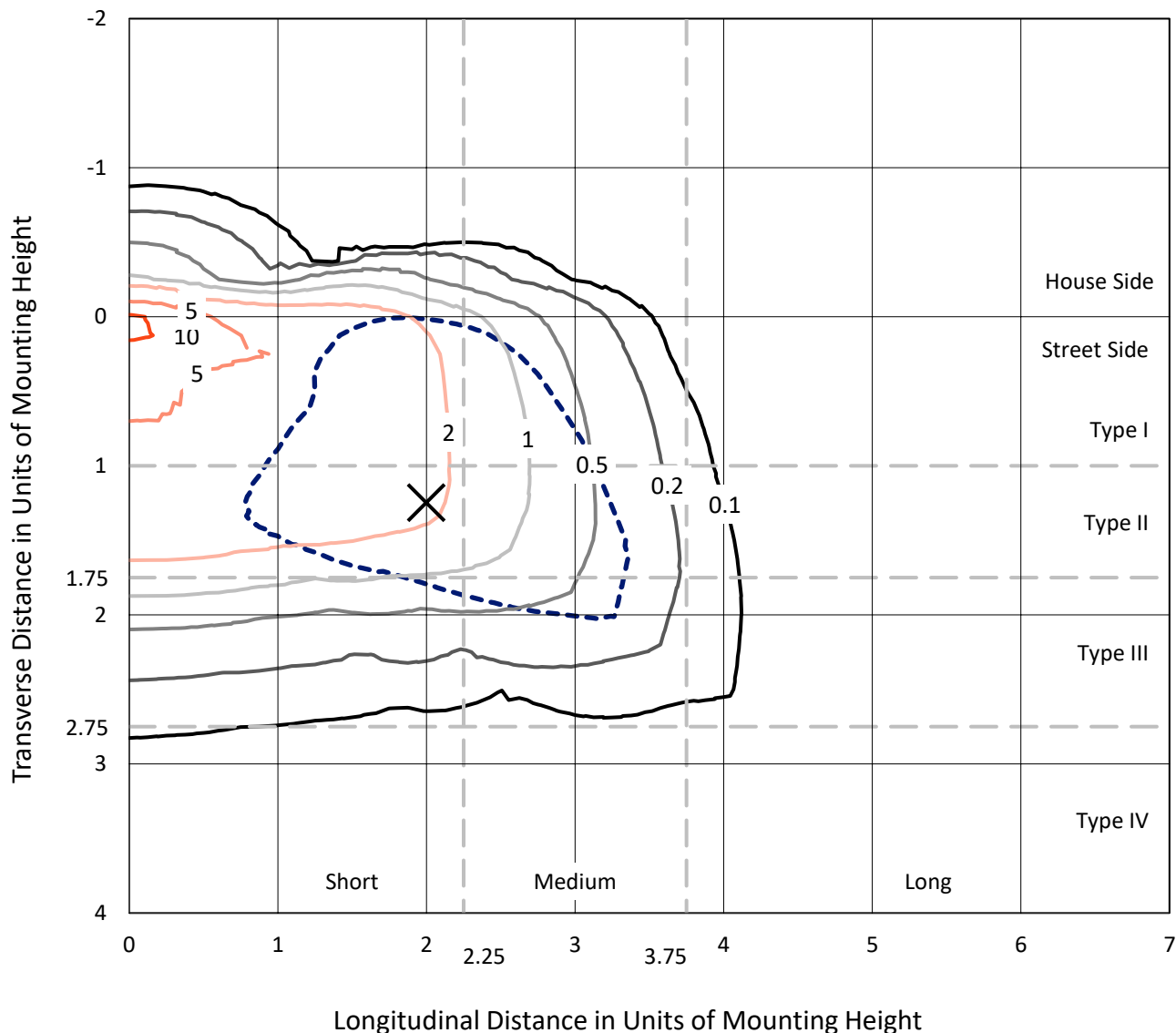
Lumens per Lamp: N/A  
Luminaire Lumens: 34036.1 lumens  
Efficiency: N/A  
Efficacy: 106.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G5

Input Watts (W): 320  
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

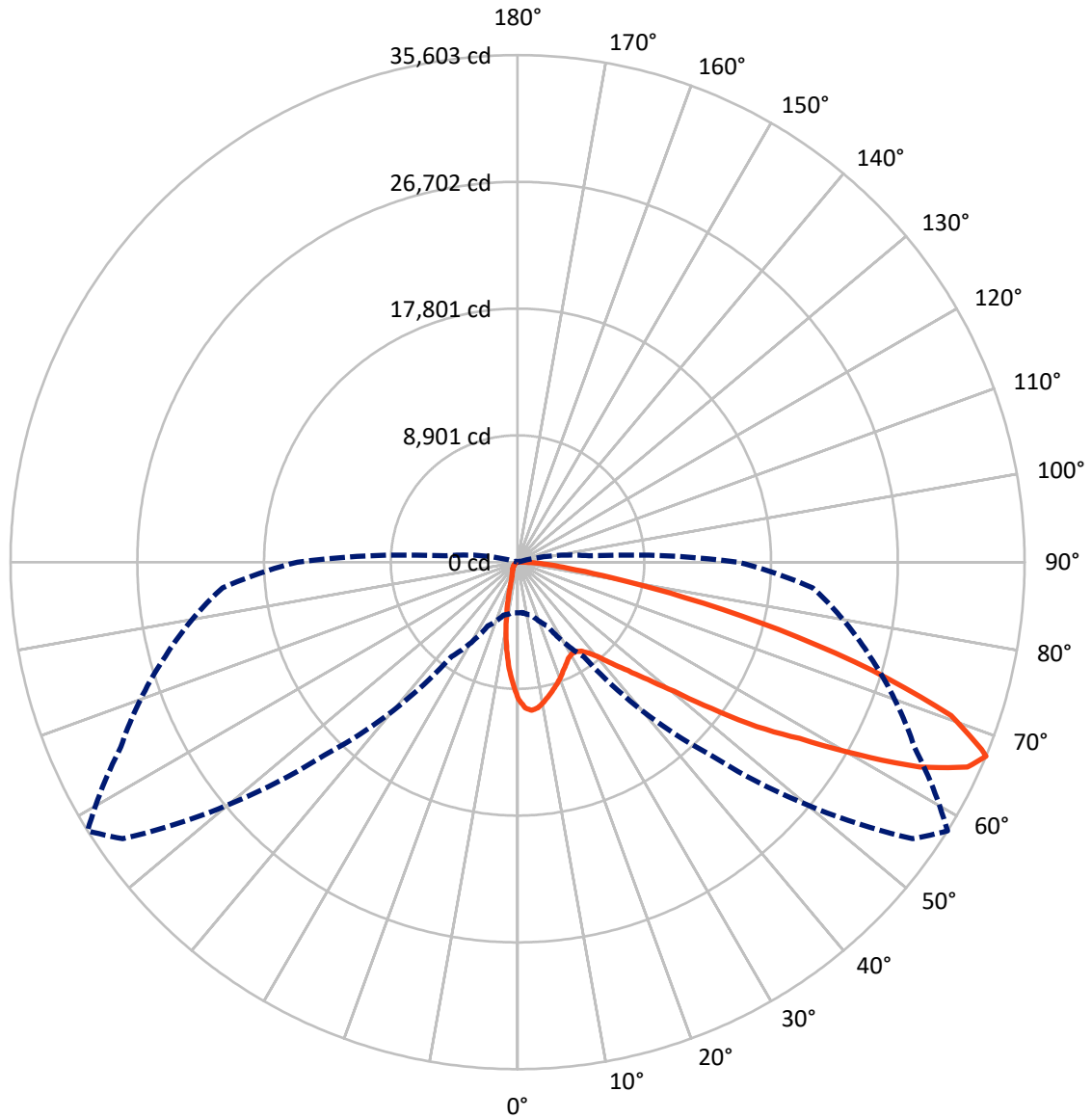
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 10.7 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral      - - - Horizontal Cone Through 67-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 2813.3   | 0.0    | 2813.3  |
|                    | % Fixture | 8.3      | 0.0    | 8.3     |
| <b>Street Side</b> | Lumens    | 31222.8  | 0.0    | 31222.8 |
|                    | % Fixture | 91.7     | 0.0    | 91.7    |
| <b>Total</b>       | Lumens    | 34036.1  | 0.0    | 34036.1 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 765.1   | 2.2       |
| 10°-20°   | 1587.0  | 4.7       |
| 20°-30°   | 2105.6  | 6.2       |
| 30°-40°   | 2917.7  | 8.6       |
| 40°-50°   | 4760.8  | 14.0      |
| 50°-60°   | 8368.0  | 24.6      |
| 60°-70°   | 9268.3  | 27.2      |
| 70°-80°   | 3840.8  | 11.3      |
| 80°-90°   | 422.8   | 1.2       |
| 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°    | 34036.1 | 100.0     |
| 0°-180°   | 34036.1 | 100.0     |

**Coefficient of Utilization**



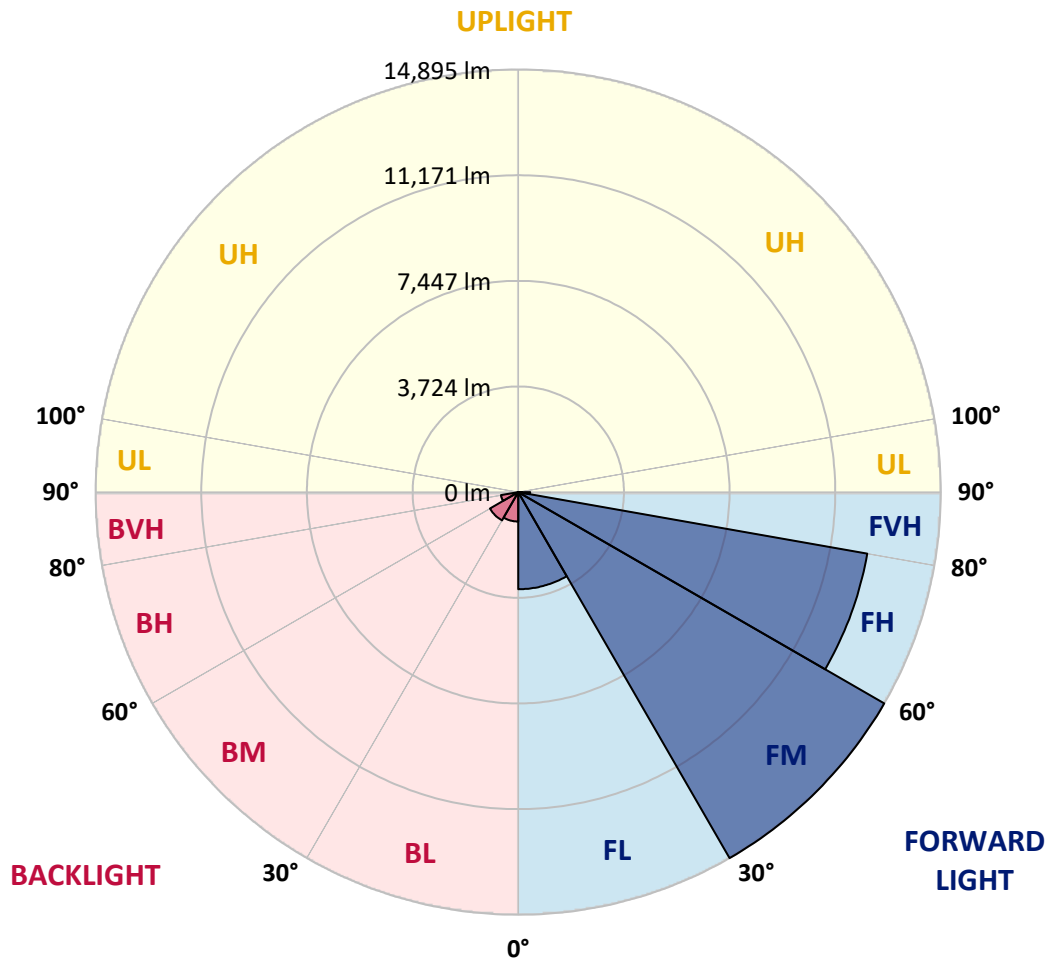
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|---------|-----------|-------------------------|------|---------|
|                |         |           | B                       | U    | G       |
| FL (0°-30°)    | 3421.6  | 10.1      |                         |      |         |
| FM (30°-60°)   | 14894.9 | 43.8      |                         |      |         |
| FH (60°-80°)   | 12490.5 | 36.7      |                         |      | G5      |
| FVH (80°-90°)  | 415.8   | 1.2       |                         |      | G3/500  |
| BL (0°-30°)    | 1036.2  | 3.0       | B3/2500                 |      |         |
| BM (30°-60°)   | 1151.7  | 3.4       | B2/2500                 |      |         |
| BH (60°-80°)   | 618.5   | 1.8       | B2/1000                 |      | G2/1000 |
| BVH (80°-90°)  | 6.9     | 0.0       |                         |      | G0/10   |
| UL (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G5**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 58°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 9642.9  | 9642.9  | 9642.9  | 9642.9  | 9642.9  | 9642.9  | 9642.9  | 9642.9  | 9642.9  | 9642.9  | 9642.9  |
| 2.5°  | 10492.4 | 10528.6 | 10560.2 | 10501.4 | 10551.2 | 10478.9 | 10293.6 | 10252.9 | 10221.3 | 9945.6  | 9787.5  |
| 5°    | 10487.9 | 10447.2 | 10478.9 | 10506.0 | 10438.2 | 10492.4 | 10447.2 | 10451.7 | 10329.7 | 10081.2 | 9638.4  |
| 7.5°  | 9787.5  | 9769.4  | 9787.5  | 9918.5  | 10067.7 | 10185.1 | 10252.9 | 10320.7 | 10239.4 | 9868.8  | 9439.6  |
| 10°   | 8843.1  | 8933.5  | 8983.2  | 9218.1  | 9448.6  | 9665.5  | 9877.9  | 10004.4 | 9981.8  | 9832.7  | 9222.7  |
| 12.5° | 8183.4  | 8156.2  | 8337.0  | 8490.6  | 8721.1  | 9159.4  | 9529.9  | 9647.4  | 9783.0  | 9575.1  | 8938.0  |
| 15°   | 7573.3  | 7501.0  | 7609.5  | 7876.1  | 8269.2  | 8617.2  | 9136.8  | 9313.0  | 9484.7  | 9539.0  | 8784.3  |
| 17.5° | 6990.4  | 7026.6  | 7139.5  | 7379.0  | 7749.6  | 8237.6  | 8725.6  | 8978.6  | 9389.8  | 9317.5  | 8553.9  |
| 20°   | 6710.3  | 6787.1  | 6827.7  | 6949.8  | 7207.3  | 7695.3  | 8422.8  | 8626.2  | 9064.5  | 9313.0  | 8328.0  |
| 22.5° | 6723.8  | 6723.8  | 6628.9  | 6701.2  | 6936.2  | 7315.8  | 8011.6  | 8237.6  | 8933.5  | 9078.1  | 8124.6  |
| 25°   | 6868.4  | 6778.0  | 6782.6  | 6696.7  | 6796.1  | 7004.0  | 7641.1  | 7916.8  | 8666.9  | 9100.7  | 8016.2  |
| 27.5° | 6976.9  | 6958.8  | 6931.7  | 6909.1  | 6782.6  | 6814.2  | 7397.1  | 7623.0  | 8562.9  | 9073.5  | 7849.0  |
| 30°   | 7370.0  | 7288.7  | 7261.5  | 7211.8  | 7044.6  | 6891.0  | 7202.8  | 7487.5  | 8481.6  | 9136.8  | 7754.1  |
| 32.5° | 7699.9  | 7713.4  | 7736.0  | 7591.4  | 7446.8  | 7067.2  | 7257.0  | 7483.0  | 8422.8  | 9281.4  | 7849.0  |
| 35°   | 8115.6  | 8174.3  | 8183.4  | 8138.2  | 7984.5  | 7609.5  | 7483.0  | 7677.3  | 8522.3  | 9539.0  | 7858.0  |
| 37.5° | 8748.2  | 8684.9  | 8856.6  | 8874.7  | 8766.3  | 8269.2  | 8007.1  | 8083.9  | 8816.0  | 9950.2  | 8201.4  |
| 40°   | 9159.4  | 9236.2  | 9557.0  | 9755.9  | 9570.6  | 9118.7  | 8766.3  | 8752.7  | 9240.7  | 10596.3 | 8626.2  |
| 42.5° | 9615.8  | 9787.5  | 10140.0 | 10569.2 | 10546.6 | 10126.4 | 9769.4  | 9710.7  | 9995.4  | 11531.7 | 9299.5  |
| 45°   | 10239.4 | 10393.0 | 10885.5 | 11531.7 | 11884.2 | 11527.2 | 10989.5 | 10872.0 | 10912.6 | 12806.0 | 10447.2 |
| 47.5° | 11274.1 | 11233.5 | 11942.9 | 12580.0 | 13158.4 | 12882.8 | 12652.3 | 12308.9 | 12277.3 | 14306.2 | 12033.3 |
| 50°   | 12444.5 | 12435.4 | 13068.1 | 13791.1 | 14459.8 | 14997.5 | 14613.5 | 14238.4 | 14247.4 | 16344.1 | 13899.5 |
| 52.5° | 13556.1 | 13732.3 | 14414.6 | 15133.1 | 16280.9 | 16859.3 | 17229.8 | 17080.7 | 16362.2 | 18165.2 | 15896.8 |
| 55°   | 14143.5 | 14297.2 | 14975.0 | 16213.1 | 18025.1 | 19511.7 | 20514.9 | 20388.4 | 19001.1 | 20216.6 | 17866.9 |
| 57.5° | 13587.7 | 13691.6 | 14608.9 | 16231.2 | 19245.1 | 22561.8 | 23524.3 | 23366.2 | 21730.4 | 21784.6 | 20248.3 |
| 60°   | 11260.6 | 11423.3 | 12787.9 | 14690.3 | 18770.7 | 24911.6 | 27668.0 | 27428.5 | 24215.7 | 23768.3 | 21780.1 |
| 62.5° | 7799.3  | 7907.7  | 9028.4  | 11396.1 | 16520.3 | 25729.5 | 31581.2 | 31712.2 | 26836.5 | 25313.7 | 22236.5 |
| 65°   | 5051.9  | 5042.9  | 5684.5  | 7288.7  | 11707.9 | 23253.2 | 33894.7 | 34708.1 | 29367.0 | 25548.7 | 22096.4 |
| 67°   | 3569.8  | 3556.2  | 3859.0  | 4943.5  | 8106.5  | 19159.3 | 33854.1 | 35602.8 | 30740.7 | 25616.5 | 20799.6 |
| 67.5° | 3294.1  | 3280.6  | 3569.8  | 4545.8  | 7315.8  | 17817.2 | 33348.0 | 35141.9 | 31224.2 | 25521.6 | 20230.2 |
| 70°   | 2557.6  | 2521.4  | 2629.9  | 3131.5  | 4261.1  | 11522.7 | 28540.1 | 32281.6 | 30221.0 | 23153.8 | 16154.3 |
| 72.5° | 1848.1  | 1888.8  | 2060.5  | 2571.1  | 3343.8  | 6199.6  | 21753.0 | 26104.5 | 25241.4 | 17451.2 | 10266.5 |
| 75°   | 1287.8  | 1324.0  | 1599.6  | 2096.7  | 3068.2  | 3759.6  | 14708.4 | 18933.3 | 17582.2 | 9633.9  | 4374.1  |
| 77.5° | 673.3   | 718.5   | 1021.2  | 1676.4  | 2788.0  | 2910.0  | 8788.9  | 12006.2 | 9317.5  | 3429.7  | 1206.5  |
| 80°   | 311.8   | 334.4   | 510.6   | 1188.4  | 2331.6  | 2557.6  | 5124.2  | 6678.6  | 3727.9  | 768.2   | 415.7   |
| 82.5° | 135.6   | 149.1   | 235.0   | 682.3   | 1653.8  | 2236.8  | 3172.1  | 3502.0  | 1351.1  | 248.5   | 257.6   |
| 85°   | 27.1    | 31.6    | 90.4    | 361.5   | 799.8   | 1355.6  | 2227.7  | 2078.6  | 677.8   | 122.0   | 203.3   |
| 87.5° | 0.0     | 0.0     | 22.6    | 103.9   | 216.9   | 402.2   | 944.4   | 944.4   | 207.9   | 63.3    | 76.8    |
| 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°    | 9642.9  | 9642.9 | 9642.9 | 9642.9 | 9642.9 | 9642.9 | 9642.9 | 9642.9 | 9642.9 | 9642.9 | 9642.9 |
| 2.5°  | 9647.4  | 9484.7 | 9127.8 | 8797.9 | 8562.9 | 8296.3 | 7943.9 | 7785.7 | 7727.0 | 7645.6 | 7523.6 |
| 5°    | 9394.4  | 9195.5 | 8585.5 | 7971.0 | 7297.7 | 6787.1 | 6244.8 | 5928.5 | 5689.0 | 5539.9 | 5490.2 |
| 7.5°  | 9037.4  | 8630.7 | 7808.3 | 6823.2 | 5951.1 | 5192.0 | 4369.6 | 3813.8 | 3456.8 | 3312.2 | 3176.6 |
| 10°   | 8752.7  | 8224.0 | 6972.3 | 5747.8 | 4586.5 | 3474.9 | 2548.5 | 2060.5 | 1690.0 | 1549.9 | 1531.8 |
| 12.5° | 8382.2  | 7749.6 | 6190.6 | 4649.7 | 3190.2 | 2069.6 | 1409.8 | 1224.6 | 1120.6 | 1102.6 | 1089.0 |
| 15°   | 8074.9  | 7320.3 | 5449.5 | 3601.4 | 2065.0 | 1292.3 | 1098.0 | 1052.9 | 1025.7 | 1016.7 | 1021.2 |
| 17.5° | 7867.0  | 6859.4 | 4690.4 | 2620.8 | 1360.1 | 1057.4 | 1012.2 | 985.1  | 971.5  | 967.0  | 953.4  |
| 20°   | 7455.8  | 6470.8 | 3940.3 | 1834.6 | 1061.9 | 976.0  | 939.9  | 917.3  | 903.7  | 899.2  | 894.7  |
| 22.5° | 7220.9  | 5978.2 | 3190.2 | 1278.8 | 944.4  | 885.7  | 858.6  | 840.5  | 817.9  | 804.3  | 799.8  |
| 25°   | 6985.9  | 5616.7 | 2521.4 | 994.1  | 858.6  | 817.9  | 777.2  | 754.6  | 718.5  | 700.4  | 695.9  |
| 27.5° | 6710.3  | 5259.8 | 1943.0 | 863.1  | 772.7  | 732.0  | 691.4  | 655.2  | 610.0  | 591.9  | 582.9  |
| 30°   | 6552.1  | 4911.8 | 1464.1 | 772.7  | 709.4  | 655.2  | 605.5  | 560.3  | 510.6  | 479.0  | 469.9  |
| 32.5° | 6470.8  | 4595.5 | 1098.0 | 704.9  | 641.7  | 582.9  | 519.6  | 465.4  | 420.2  | 393.1  | 388.6  |
| 35°   | 6371.4  | 4288.2 | 863.1  | 641.7  | 578.4  | 515.1  | 451.9  | 397.6  | 352.5  | 329.9  | 320.8  |
| 37.5° | 6475.3  | 4107.5 | 718.5  | 591.9  | 528.7  | 456.4  | 388.6  | 334.4  | 298.2  | 275.6  | 271.1  |
| 40°   | 6760.0  | 3958.4 | 623.6  | 546.8  | 479.0  | 402.2  | 338.9  | 284.7  | 253.0  | 235.0  | 225.9  |
| 42.5° | 7198.3  | 3958.4 | 564.8  | 501.6  | 433.8  | 352.5  | 289.2  | 248.5  | 216.9  | 198.8  | 194.3  |
| 45°   | 7993.6  | 4080.4 | 515.1  | 456.4  | 379.6  | 302.8  | 248.5  | 207.9  | 176.2  | 158.2  | 153.6  |
| 47.5° | 9109.7  | 4360.5 | 474.5  | 415.7  | 338.9  | 266.6  | 216.9  | 176.2  | 144.6  | 126.5  | 122.0  |
| 50°   | 10609.9 | 4997.7 | 433.8  | 366.0  | 302.8  | 230.5  | 180.7  | 140.1  | 113.0  | 94.9   | 90.4   |
| 52.5° | 12480.6 | 5901.4 | 393.1  | 338.9  | 257.6  | 194.3  | 144.6  | 113.0  | 85.9   | 72.3   | 67.8   |
| 55°   | 14459.8 | 7008.5 | 343.4  | 302.8  | 221.4  | 162.7  | 117.5  | 85.9   | 63.3   | 54.2   | 49.7   |
| 57.5° | 16452.6 | 7862.5 | 302.8  | 262.1  | 180.7  | 131.0  | 94.9   | 67.8   | 45.2   | 36.1   | 31.6   |
| 60°   | 17509.9 | 7943.9 | 262.1  | 216.9  | 144.6  | 103.9  | 72.3   | 49.7   | 31.6   | 22.6   | 18.1   |
| 62.5° | 17672.6 | 7220.9 | 225.9  | 176.2  | 117.5  | 81.3   | 49.7   | 36.1   | 18.1   | 9.0    | 9.0    |
| 65°   | 16836.7 | 6018.9 | 194.3  | 140.1  | 90.4   | 58.7   | 36.1   | 22.6   | 9.0    | 4.5    | 0.0    |
| 67°   | 15481.0 | 5042.9 | 167.2  | 117.5  | 72.3   | 45.2   | 27.1   | 13.6   | 4.5    | 0.0    | 0.0    |
| 67.5° | 14956.9 | 4771.7 | 158.2  | 108.4  | 67.8   | 40.7   | 22.6   | 13.6   | 4.5    | 0.0    | 0.0    |
| 70°   | 11608.5 | 3407.1 | 117.5  | 76.8   | 49.7   | 31.6   | 18.1   | 9.0    | 0.0    | 0.0    | 0.0    |
| 72.5° | 7112.4  | 1992.7 | 90.4   | 54.2   | 36.1   | 22.6   | 13.6   | 4.5    | 0.0    | 0.0    | 0.0    |
| 75°   | 2982.3  | 686.8  | 76.8   | 40.7   | 27.1   | 13.6   | 9.0    | 4.5    | 0.0    | 0.0    | 0.0    |
| 77.5° | 777.2   | 257.6  | 54.2   | 27.1   | 18.1   | 13.6   | 9.0    | 4.5    | 0.0    | 0.0    | 0.0    |
| 80°   | 316.3   | 117.5  | 36.1   | 18.1   | 18.1   | 13.6   | 9.0    | 4.5    | 0.0    | 0.0    | 0.0    |
| 82.5° | 207.9   | 54.2   | 22.6   | 18.1   | 13.6   | 9.0    | 4.5    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 158.2   | 31.6   | 13.6   | 13.6   | 9.0    | 4.5    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 67.8    | 18.1   | 13.6   | 9.0    | 9.0    | 0.0    | 0.0    | 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)