

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: P481619

Luminaire Tested: **IFLD-L-SA8B-730-U-T2-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P481619  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA8B-730-U-T2-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens with House Side Shield  
Light Source: (128) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

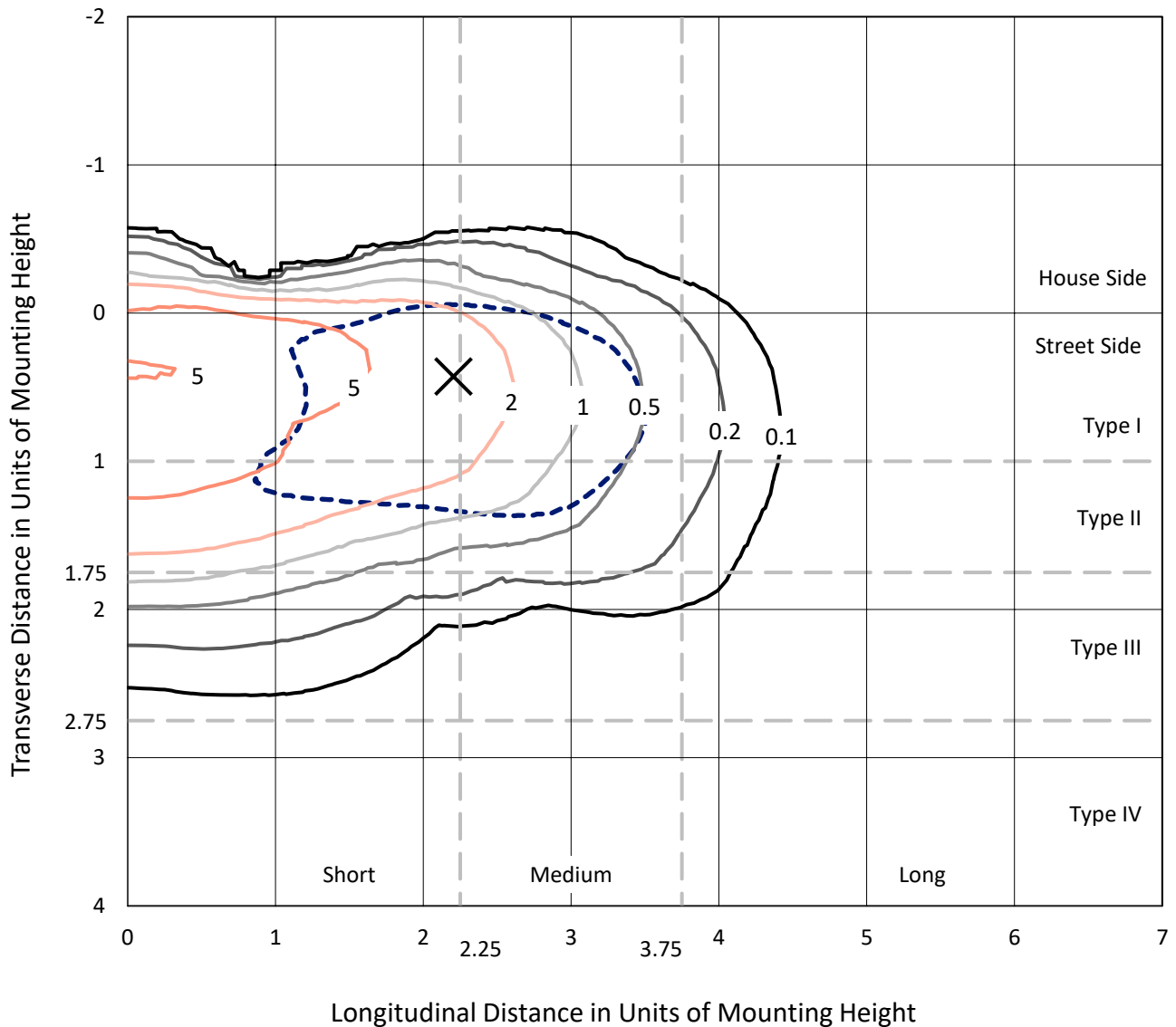
Lumens per Lamp: N/A  
Luminaire Lumens: 26688.5 lumens  
Efficiency: N/A  
Efficacy: 83.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G4

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

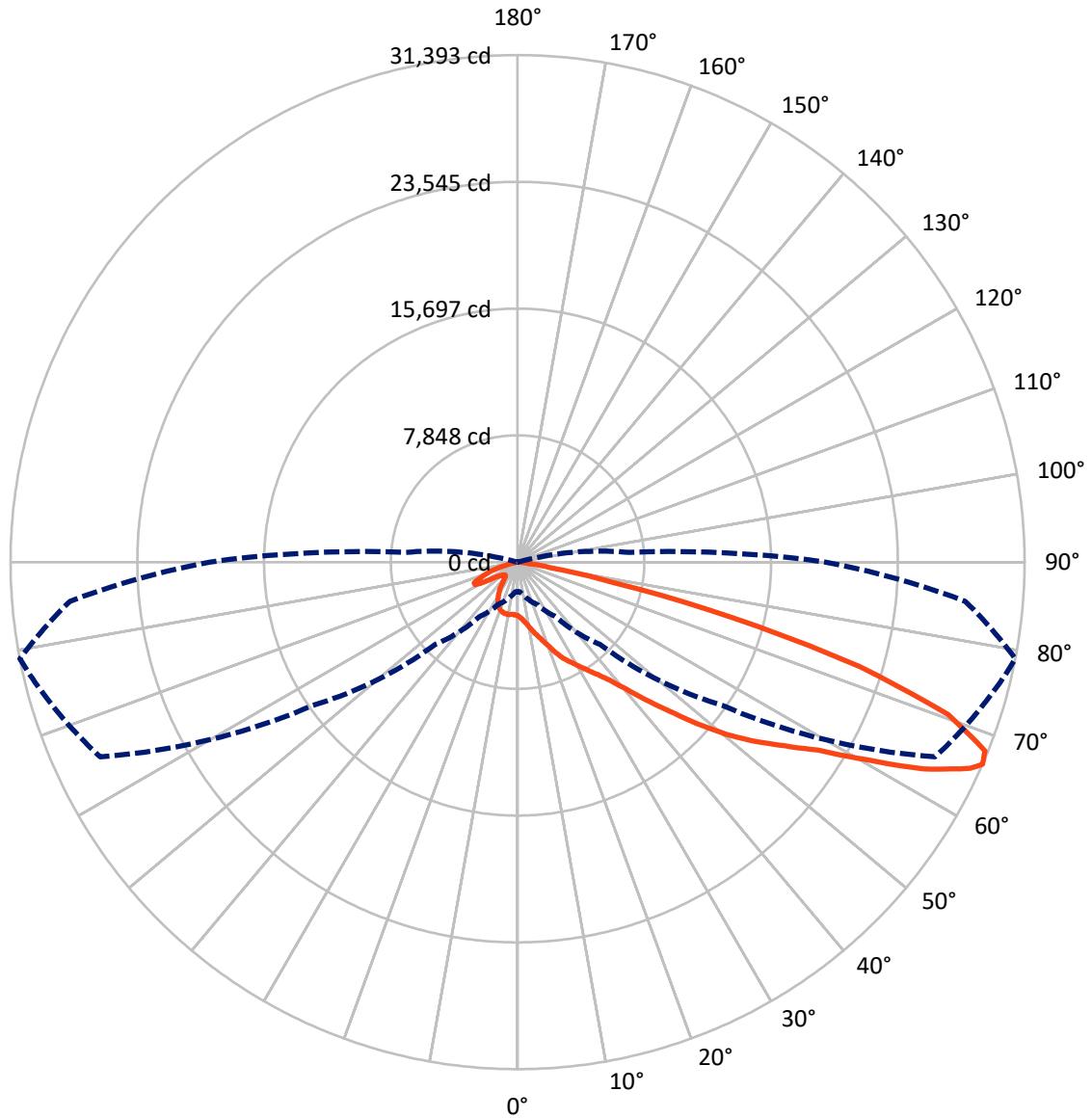
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8 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    | 2003.9   | 0.0    | 2003.9  |
|                    | % Fixture | 7.5      | 0.0    | 7.5     |
| <b>Street Side</b> | Lumens    | 24684.5  | 0.0    | 24684.5 |
|                    | % Fixture | 92.5     | 0.0    | 92.5    |
| <b>Total</b>       | Lumens    | 26688.5  | 0.0    | 26688.5 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 314.0   | 1.2       |
| 10°-20°   | 864.2   | 3.2       |
| 20°-30°   | 1435.7  | 5.4       |
| 30°-40°   | 2466.0  | 9.2       |
| 40°-50°   | 4467.4  | 16.7      |
| 50°-60°   | 7061.6  | 26.5      |
| 60°-70°   | 7185.7  | 26.9      |
| 70°-80°   | 2740.3  | 10.3      |
| 80°-90°   | 153.6   | 0.6       |
| 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°    | 26688.5 | 100.0     |
| 0°-180°   | 26688.5 | 100.0     |

**Coefficient of Utilization**



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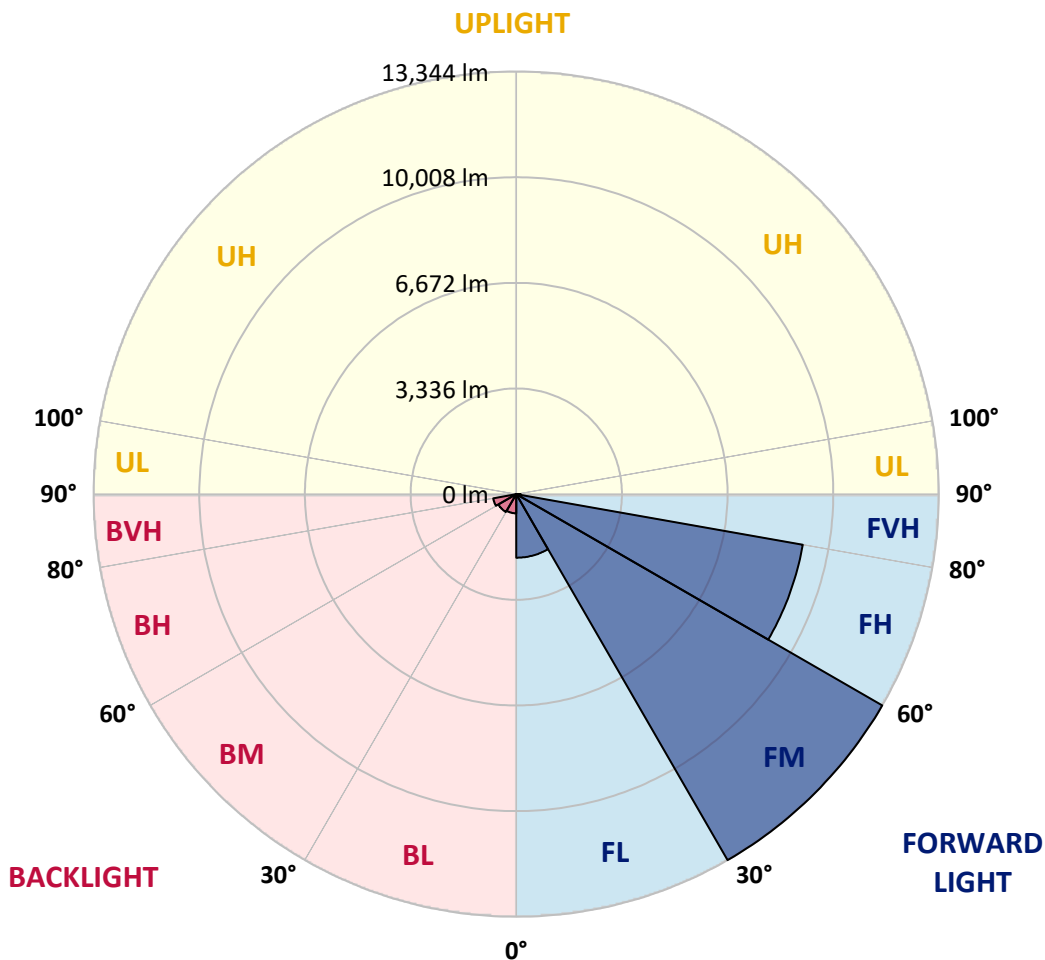
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|----------------|---------|-----------|-------------------------|------|----------|
|                |         |           | B                       | U    | G        |
| FL (0°-30°)    | 2007.9  | 7.5       |                         |      |          |
| FM (30°-60°)   | 13343.6 | 50.0      |                         |      |          |
| FH (60°-80°)   | 9187.3  | 34.4      |                         |      | G4/12000 |
| FVH (80°-90°)  | 145.8   | 0.5       |                         |      | G2/225   |
| BL (0°-30°)    | 606.0   | 2.3       | B2/1000                 |      |          |
| BM (30°-60°)   | 651.3   | 2.4       | B1/1000                 |      |          |
| BH (60°-80°)   | 738.7   | 2.8       | B2/1000                 |      | G2/1000  |
| BVH (80°-90°)  | 7.9     | 0.0       |                         |      | G0/10    |
| UL (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |          |
| UH (100°-180°) | 0.0     | 0.0       |                         | U0/0 |          |

**BUG Rating: B2-U0-G4**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 79°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 3320.4  | 3320.4  | 3320.4  | 3320.4  | 3320.4  | 3320.4  | 3320.4  | 3320.4  | 3320.4  | 3320.4  | 3320.4  |
| 2.5°  | 3760.6  | 3756.5  | 3740.0  | 3711.2  | 3674.2  | 3661.9  | 3608.4  | 3534.3  | 3493.2  | 3447.9  | 3427.3  |
| 5°    | 4019.8  | 3999.3  | 4048.6  | 4028.1  | 4036.3  | 3937.5  | 3871.7  | 3818.2  | 3661.9  | 3600.2  | 3501.4  |
| 7.5°  | 4077.4  | 4098.0  | 4093.9  | 4126.8  | 4159.7  | 4196.7  | 4151.5  | 4073.3  | 3917.0  | 3826.4  | 3719.5  |
| 10°   | 4077.4  | 4069.2  | 4102.1  | 4147.4  | 4242.0  | 4324.3  | 4447.7  | 4344.9  | 4225.5  | 4118.6  | 3925.2  |
| 12.5° | 4003.4  | 3991.0  | 4023.9  | 4118.6  | 4287.3  | 4456.0  | 4591.7  | 4690.5  | 4521.8  | 4435.4  | 4184.4  |
| 15°   | 3777.1  | 3764.7  | 3900.5  | 4069.2  | 4291.4  | 4567.0  | 4850.9  | 5011.4  | 4896.2  | 4760.4  | 4480.6  |
| 17.5° | 3497.3  | 3513.7  | 3657.8  | 3937.5  | 4291.4  | 4620.5  | 4982.6  | 5332.3  | 5315.9  | 5143.1  | 4850.9  |
| 20°   | 3402.7  | 3415.0  | 3559.0  | 3760.6  | 4163.8  | 4657.6  | 5188.3  | 5682.1  | 5780.8  | 5575.1  | 5192.4  |
| 22.5° | 3583.7  | 3571.3  | 3583.7  | 3707.1  | 4077.4  | 4624.7  | 5324.1  | 6081.2  | 6258.1  | 6097.6  | 5640.9  |
| 25°   | 4200.9  | 4192.6  | 4089.8  | 3900.5  | 4028.1  | 4550.6  | 5394.1  | 6344.5  | 6751.8  | 6603.7  | 6003.0  |
| 27.5° | 5106.0  | 5073.1  | 4912.7  | 4517.7  | 4258.5  | 4595.8  | 5509.3  | 6599.6  | 7183.8  | 7015.2  | 6328.0  |
| 30°   | 6077.1  | 5998.9  | 5789.0  | 5295.3  | 4855.1  | 4764.5  | 5575.1  | 6788.9  | 7665.2  | 7451.3  | 6611.9  |
| 32.5° | 6747.7  | 6850.6  | 6784.7  | 6282.8  | 5608.0  | 5155.4  | 5682.1  | 7027.5  | 8109.6  | 7969.7  | 7097.4  |
| 35°   | 7784.6  | 7903.9  | 7628.2  | 7183.8  | 6505.0  | 5776.7  | 5908.4  | 7220.9  | 8792.6  | 8558.1  | 7550.0  |
| 37.5° | 9093.0  | 9183.5  | 8986.0  | 8142.5  | 7426.6  | 6542.0  | 6373.3  | 7624.1  | 9381.0  | 9269.9  | 8130.2  |
| 40°   | 9751.3  | 10187.4 | 9907.6  | 9146.4  | 8377.0  | 7611.7  | 7142.7  | 8097.3  | 10405.5 | 10314.9 | 8932.5  |
| 42.5° | 10660.6 | 10878.6 | 10734.6 | 10170.9 | 9368.6  | 8755.6  | 8093.1  | 9018.9  | 11648.0 | 11648.0 | 10018.7 |
| 45°   | 11623.3 | 11631.6 | 11623.3 | 11162.5 | 10450.7 | 10133.9 | 9376.8  | 10175.1 | 12985.2 | 13133.3 | 11318.9 |
| 47.5° | 12413.3 | 12660.2 | 12639.6 | 12363.9 | 11812.6 | 11693.3 | 10660.6 | 11491.7 | 14663.9 | 14923.1 | 12586.1 |
| 50°   | 12820.7 | 13096.3 | 13178.6 | 13322.6 | 13297.9 | 13548.9 | 12063.6 | 13018.1 | 16112.2 | 16750.0 | 14215.5 |
| 52.5° | 12709.6 | 12730.1 | 13236.2 | 13804.0 | 14709.2 | 15412.8 | 13754.6 | 14750.3 | 17807.4 | 18436.9 | 15474.5 |
| 55°   | 11800.3 | 11722.1 | 12763.0 | 13413.1 | 15285.2 | 16552.5 | 16095.8 | 16910.4 | 19128.1 | 20086.8 | 16774.6 |
| 57.5° | 9804.8  | 9825.3  | 10788.1 | 12108.8 | 14857.3 | 17005.1 | 18597.4 | 19732.9 | 20979.6 | 21946.5 | 18601.5 |
| 60°   | 6768.3  | 6743.6  | 7821.6  | 9348.0  | 12343.4 | 16161.6 | 20037.4 | 23390.7 | 23456.5 | 24826.6 | 21880.7 |
| 62.5° | 3805.9  | 3814.1  | 4632.9  | 5937.2  | 8636.2  | 13207.4 | 19967.5 | 27274.7 | 26995.0 | 28196.4 | 25608.4 |
| 65°   | 2156.0  | 2209.5  | 2773.1  | 3517.9  | 5171.9  | 8866.7  | 17173.7 | 28821.8 | 29722.8 | 30792.6 | 27871.3 |
| 66°   | 1822.7  | 1859.7  | 2341.1  | 2904.8  | 4126.8  | 7192.1  | 15458.0 | 28521.4 | 30578.7 | 31393.3 | 27826.1 |
| 67.5° | 1411.3  | 1460.6  | 1863.8  | 2304.1  | 3028.2  | 4978.5  | 12442.1 | 27027.9 | 30735.0 | 31212.3 | 27040.2 |
| 70°   | 966.9   | 999.8   | 1308.4  | 1748.6  | 2069.6  | 2546.8  | 7438.9  | 22345.6 | 27887.8 | 28291.0 | 23501.8 |
| 72.5° | 678.9   | 695.3   | 917.5   | 1324.9  | 1592.3  | 1456.5  | 3690.7  | 15898.3 | 21341.7 | 22127.6 | 18280.5 |
| 75°   | 489.6   | 506.1   | 629.5   | 950.4   | 1242.6  | 954.6   | 1691.0  | 10154.5 | 13088.1 | 13705.3 | 11010.3 |
| 77.5° | 353.8   | 374.4   | 427.9   | 613.1   | 901.1   | 670.7   | 831.1   | 5303.5  | 6171.7  | 6064.7  | 4735.7  |
| 80°   | 214.0   | 234.5   | 316.8   | 395.0   | 658.3   | 473.2   | 456.7   | 2213.6  | 2188.9  | 2077.8  | 1489.4  |
| 82.5° | 98.7    | 115.2   | 168.7   | 267.4   | 460.8   | 329.2   | 218.1   | 790.0   | 691.2   | 633.6   | 419.7   |
| 85°   | 28.8    | 37.0    | 98.7    | 201.6   | 234.5   | 160.5   | 131.7   | 271.6   | 283.9   | 242.8   | 139.9   |
| 87.5° | 0.0     | 4.1     | 45.3    | 49.4    | 69.9    | 53.5    | 49.4    | 69.9    | 131.7   | 107.0   | 45.3    |
| 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°    | 3320.4  | 3320.4 | 3320.4 | 3320.4 | 3320.4 | 3320.4 | 3320.4 | 3320.4 | 3320.4 | 3320.4 | 3320.4 |
| 2.5°  | 3353.3  | 3324.5 | 3254.5 | 3147.6 | 3052.9 | 3003.6 | 2933.6 | 2871.9 | 2839.0 | 2834.9 | 2830.7 |
| 5°    | 3435.6  | 3357.4 | 3188.7 | 2995.3 | 2851.3 | 2695.0 | 2588.0 | 2509.8 | 2435.8 | 2365.8 | 2407.0 |
| 7.5°  | 3546.7  | 3423.2 | 3147.6 | 2896.6 | 2583.9 | 2382.3 | 2193.0 | 2081.9 | 2016.1 | 1954.4 | 1946.1 |
| 10°   | 3719.5  | 3563.1 | 3118.8 | 2666.2 | 2308.2 | 2012.0 | 1818.6 | 1658.1 | 1567.6 | 1460.6 | 1501.8 |
| 12.5° | 3954.0  | 3674.2 | 3011.8 | 2456.3 | 1995.5 | 1682.8 | 1407.1 | 1147.9 | 1003.9 | 892.8  | 897.0  |
| 15°   | 4188.5  | 3822.3 | 2913.0 | 2201.2 | 1711.6 | 1300.2 | 897.0  | 720.0  | 678.9  | 654.2  | 662.4  |
| 17.5° | 4418.9  | 3941.7 | 2760.8 | 1942.0 | 1386.6 | 827.0  | 654.2  | 617.2  | 596.6  | 571.9  | 571.9  |
| 20°   | 4698.7  | 4019.8 | 2571.5 | 1703.4 | 954.6  | 613.1  | 559.6  | 534.9  | 502.0  | 469.0  | 473.2  |
| 22.5° | 4970.3  | 4085.7 | 2353.5 | 1398.9 | 641.9  | 530.8  | 469.0  | 436.1  | 407.3  | 374.4  | 374.4  |
| 25°   | 5241.8  | 4106.2 | 2069.6 | 1003.9 | 518.4  | 423.8  | 366.2  | 320.9  | 292.1  | 263.3  | 267.4  |
| 27.5° | 5427.0  | 3978.7 | 1802.1 | 641.9  | 415.6  | 320.9  | 255.1  | 218.1  | 193.4  | 164.6  | 164.6  |
| 30°   | 5533.9  | 3744.2 | 1514.1 | 452.6  | 312.7  | 218.1  | 152.2  | 115.2  | 90.5   | 69.9   | 65.8   |
| 32.5° | 5640.9  | 3554.9 | 1189.1 | 345.6  | 205.7  | 115.2  | 57.6   | 20.6   | 0.0    | 0.0    | 0.0    |
| 35°   | 5854.9  | 3340.9 | 798.2  | 193.4  | 69.9   | 4.1    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 37.5° | 5990.7  | 3044.7 | 366.2  | 28.8   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 40°   | 6332.2  | 2896.6 | 90.5   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 42.5° | 6887.6  | 2793.7 | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 45°   | 7496.5  | 2752.6 | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 47.5° | 8307.1  | 2863.7 | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 50°   | 9162.9  | 3164.0 | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 52.5° | 10101.0 | 3447.9 | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 55°   | 10919.8 | 3789.4 | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 57.5° | 12425.7 | 4595.8 | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 60°   | 15128.9 | 6179.9 | 4.1    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 62.5° | 18173.6 | 7356.7 | 45.3   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 65°   | 19288.6 | 7327.8 | 78.2   | 4.1    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 66°   | 19091.1 | 6924.6 | 78.2   | 4.1    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 67.5° | 18066.6 | 6151.1 | 69.9   | 8.2    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 70°   | 15515.6 | 5081.4 | 69.9   | 12.3   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 72.5° | 11829.1 | 3958.1 | 65.8   | 16.5   | 4.1    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 75°   | 7138.6  | 2106.6 | 53.5   | 20.6   | 8.2    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 77.5° | 2843.1  | 740.6  | 41.1   | 16.5   | 8.2    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 80°   | 769.4   | 222.2  | 24.7   | 16.5   | 12.3   | 4.1    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 82.5° | 201.6   | 82.3   | 20.6   | 16.5   | 8.2    | 4.1    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 78.2    | 32.9   | 16.5   | 12.3   | 12.3   | 8.2    | 4.1    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 24.7    | 12.3   | 12.3   | 8.2    | 8.2    | 4.1    | 4.1    | 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)