

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: P484066

Luminaire Tested: **IFLD-M-SA4B-750-U-SL2-HSS**

Issue Date: 02/26/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P484066  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4B-750-U-SL2-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens with House Side Shield  
Light Source: (64) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 19228.5 lumens  
Efficiency: N/A  
Efficacy: 115.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B2 - U0 - G3

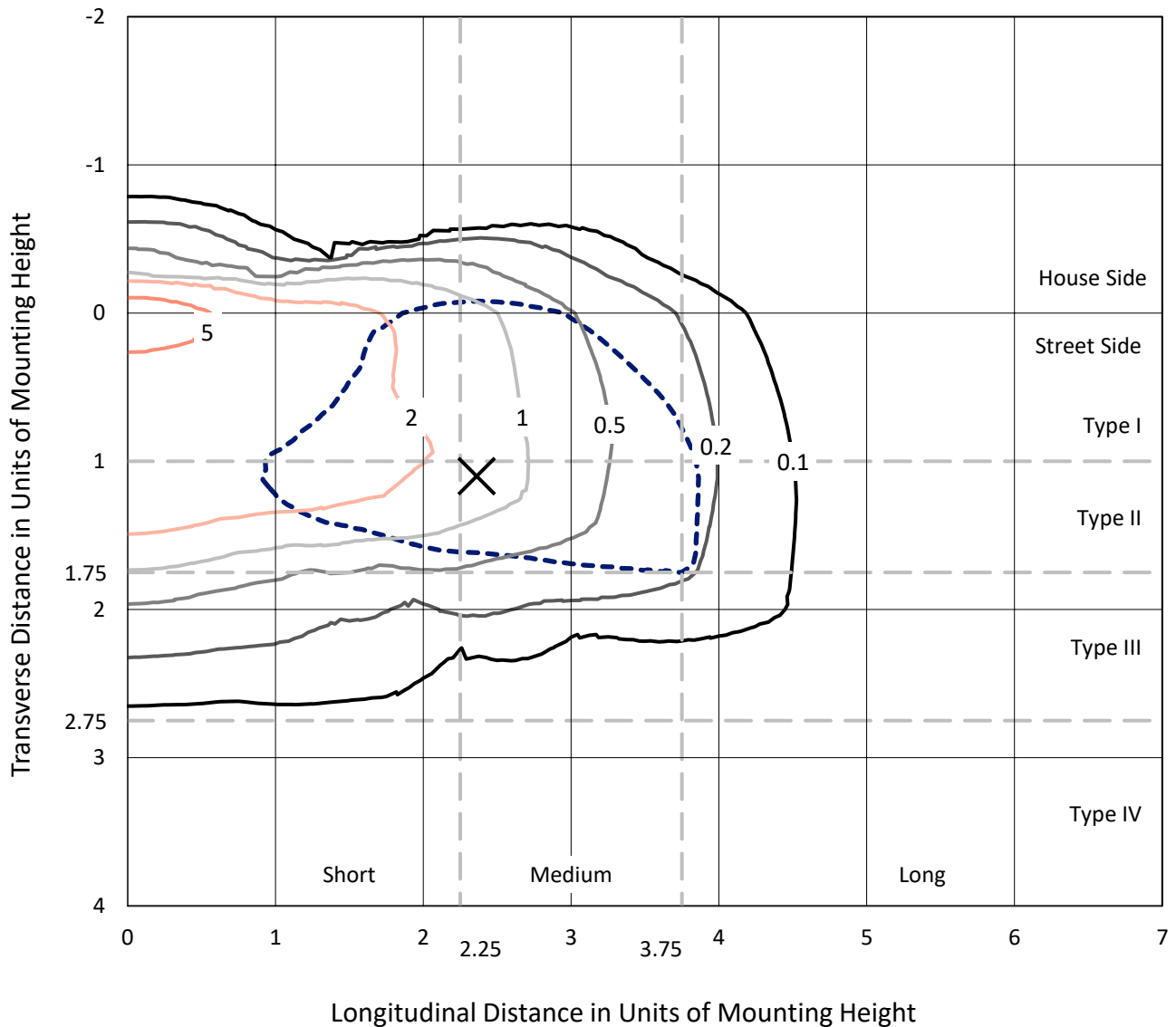
Input Watts (W): 166.1  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

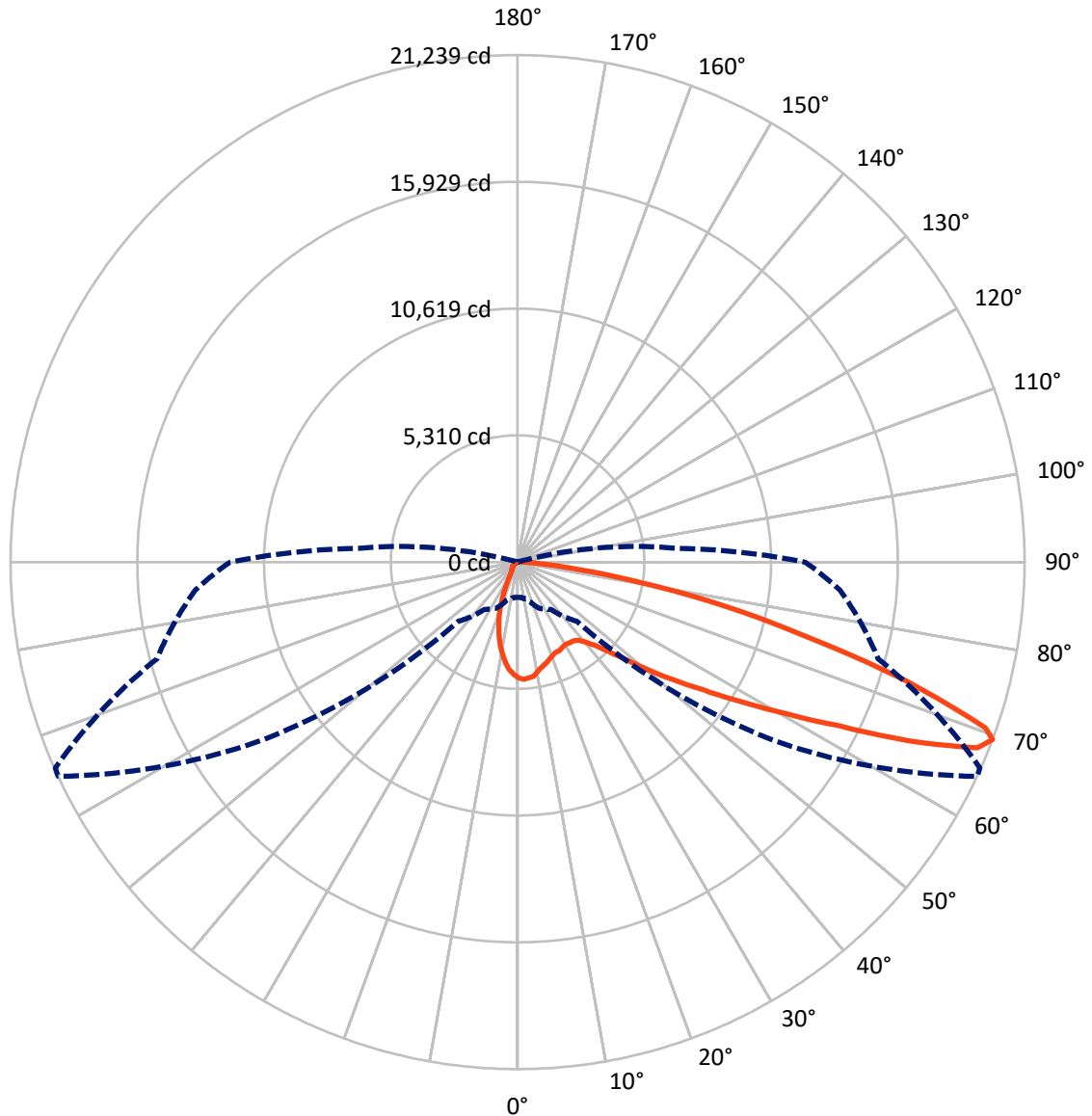
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.8 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

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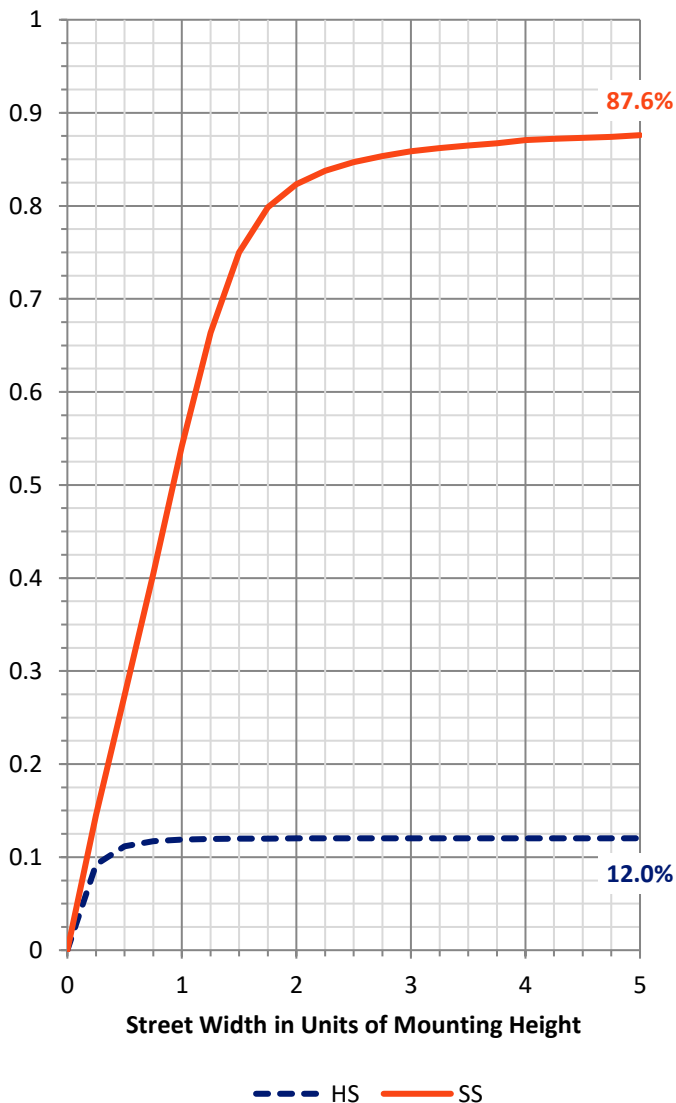
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 2332.6   | 0.0    | 2332.6  |
|                    | % Fixture | 12.1     | 0.0    | 12.1    |
| <b>Street Side</b> | Lumens    | 16896.0  | 0.0    | 16896.0 |
|                    | % Fixture | 87.9     | 0.0    | 87.9    |
| <b>Total</b>       | Lumens    | 19228.5  | 0.0    | 19228.5 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 396.7   | 2.1       |
| 10°-20°   | 868.0   | 4.5       |
| 20°-30°   | 1208.5  | 6.3       |
| 30°-40°   | 1712.5  | 8.9       |
| 40°-50°   | 2698.9  | 14.0      |
| 50°-60°   | 4379.4  | 22.8      |
| 60°-70°   | 4890.9  | 25.4      |
| 70°-80°   | 2754.1  | 14.3      |
| 80°-90°   | 319.6   | 1.7       |
| 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°    | 19228.5 | 100.0     |
| 0°-180°   | 19228.5 | 100.0     |



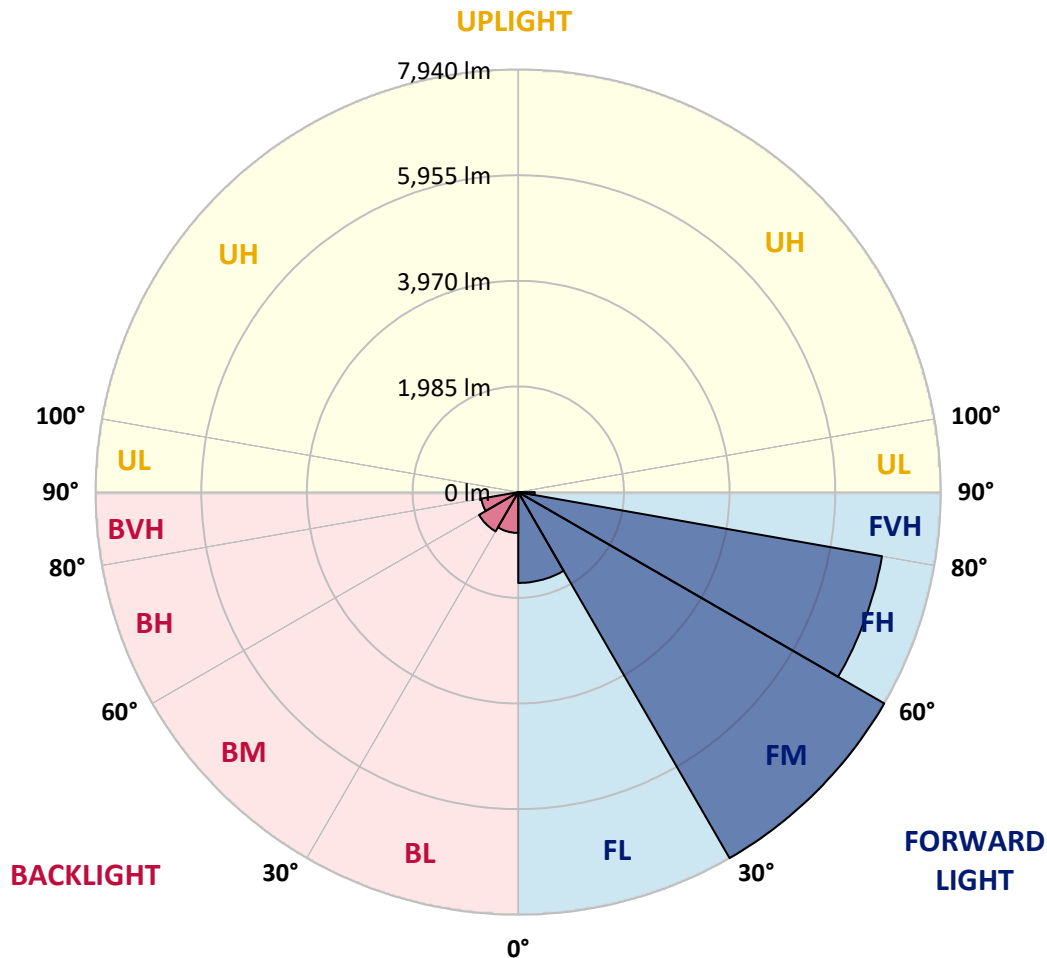
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 1706.3 | 8.9       |                         |      |         |
| FM (30°-60°)   | 7939.6 | 41.3      |                         |      |         |
| FH (60°-80°)   | 6939.2 | 36.1      |                         |      | G3/7500 |
| FVH (80°-90°)  | 310.8  | 1.6       |                         |      | G3/500  |
| BL (0°-30°)    | 766.9  | 4.0       | B2/1000                 |      |         |
| BM (30°-60°)   | 851.1  | 4.4       | B1/1000                 |      |         |
| BH (60°-80°)   | 705.7  | 3.7       | B2/1000                 |      | G2/1000 |
| BVH (80°-90°)  | 8.8    | 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-G3**

Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°     | 55°     | 65°     | 66°     | 75°     | 85°     |
|-------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|
| 0°    | 4848.0 | 4848.0 | 4848.0 | 4848.0 | 4848.0 | 4848.0  | 4848.0  | 4848.0  | 4848.0  | 4848.0  | 4848.0  |
| 2.5°  | 4669.0 | 4705.3 | 4715.7 | 4752.0 | 4770.1 | 4848.0  | 4892.1  | 4918.0  | 4905.0  | 4933.6  | 4936.2  |
| 5°    | 4337.0 | 4316.2 | 4370.7 | 4409.6 | 4492.6 | 4627.5  | 4765.0  | 4871.3  | 4920.6  | 4967.3  | 4959.5  |
| 7.5°  | 3981.6 | 3971.2 | 4025.7 | 4113.9 | 4189.1 | 4352.5  | 4573.0  | 4835.0  | 4824.6  | 4938.7  | 4972.5  |
| 10°   | 3737.8 | 3748.2 | 3766.3 | 3854.5 | 3966.0 | 4132.0  | 4407.0  | 4650.8  | 4705.3  | 4946.5  | 5014.0  |
| 12.5° | 3514.7 | 3532.9 | 3566.6 | 3657.4 | 3787.1 | 3958.3  | 4225.4  | 4510.8  | 4593.8  | 4902.4  | 5037.3  |
| 15°   | 3442.1 | 3400.6 | 3468.0 | 3535.5 | 3670.3 | 3823.4  | 4049.0  | 4404.4  | 4440.7  | 4850.6  | 5076.2  |
| 17.5° | 3382.4 | 3356.5 | 3387.6 | 3442.1 | 3584.7 | 3709.2  | 3921.9  | 4290.3  | 4357.7  | 4829.8  | 5071.0  |
| 20°   | 3400.6 | 3377.2 | 3390.2 | 3431.7 | 3496.5 | 3613.3  | 3810.4  | 4181.3  | 4254.0  | 4733.8  | 5063.3  |
| 22.5° | 3452.5 | 3470.6 | 3447.3 | 3457.6 | 3478.4 | 3538.1  | 3750.7  | 4103.5  | 4165.8  | 4715.7  | 5107.3  |
| 25°   | 3685.9 | 3654.8 | 3623.6 | 3610.7 | 3488.8 | 3514.7  | 3732.6  | 4098.3  | 4142.4  | 4650.8  | 5071.0  |
| 27.5° | 3929.7 | 3903.8 | 3890.8 | 3815.6 | 3649.6 | 3571.8  | 3735.2  | 4025.7  | 4085.4  | 4624.9  | 5026.9  |
| 30°   | 4225.4 | 4259.1 | 4207.3 | 4116.5 | 3885.6 | 3693.7  | 3763.7  | 3989.4  | 4072.4  | 4526.3  | 4998.4  |
| 32.5° | 4536.7 | 4554.9 | 4580.8 | 4513.3 | 4215.1 | 3877.8  | 3849.3  | 4023.1  | 4028.3  | 4526.3  | 4933.6  |
| 35°   | 4889.5 | 4863.5 | 4931.0 | 4936.2 | 4674.2 | 4204.7  | 4012.7  | 4046.5  | 4100.9  | 4505.6  | 4910.2  |
| 37.5° | 5192.9 | 5237.0 | 5314.9 | 5439.4 | 5169.6 | 4666.4  | 4266.9  | 4155.4  | 4178.7  | 4601.5  | 4928.4  |
| 40°   | 5525.0 | 5569.1 | 5745.4 | 5869.9 | 5716.9 | 5185.2  | 4653.4  | 4409.6  | 4427.8  | 4744.2  | 5021.8  |
| 42.5° | 5890.7 | 5976.3 | 6186.4 | 6404.3 | 6362.8 | 5844.0  | 5151.4  | 4783.1  | 4775.3  | 5099.6  | 5213.7  |
| 45°   | 6386.1 | 6500.3 | 6728.5 | 6980.1 | 7016.4 | 6598.8  | 5815.5  | 5340.8  | 5366.7  | 5563.9  | 5610.6  |
| 47.5° | 7076.1 | 7070.9 | 7294.0 | 7574.1 | 7784.2 | 7382.2  | 6609.2  | 6090.4  | 6087.8  | 6297.9  | 6199.4  |
| 50°   | 7742.7 | 7745.3 | 7805.0 | 8129.2 | 8673.9 | 8469.0  | 7592.3  | 7086.5  | 7057.9  | 7161.7  | 7003.5  |
| 52.5° | 8051.4 | 8015.1 | 7971.0 | 8362.7 | 9358.7 | 9838.6  | 8837.3  | 8214.8  | 8191.5  | 8129.2  | 8087.7  |
| 55°   | 7727.2 | 7740.1 | 7737.5 | 8144.8 | 9719.3 | 11283.4 | 10435.2 | 9457.3  | 9418.4  | 9223.8  | 9280.9  |
| 57.5° | 6687.0 | 6645.5 | 6736.3 | 7371.8 | 9306.8 | 12269.0 | 12720.4 | 11024.0 | 10922.8 | 10276.9 | 10147.3 |
| 60°   | 4977.7 | 4990.6 | 5065.8 | 5815.5 | 8282.3 | 12476.6 | 14907.0 | 12863.0 | 12427.3 | 11018.8 | 10839.8 |
| 62.5° | 3475.8 | 3449.9 | 3478.4 | 3898.6 | 5921.8 | 11646.5 | 16385.5 | 15099.0 | 14678.8 | 11861.8 | 11758.1 |
| 65°   | 2487.5 | 2453.8 | 2567.9 | 2824.7 | 3556.2 | 8904.8  | 16595.6 | 18076.7 | 17700.6 | 13208.0 | 12959.0 |
| 67.5° | 1789.8 | 1784.6 | 1916.9 | 2383.8 | 2526.4 | 5128.1  | 15039.3 | 20774.4 | 20546.1 | 14805.9 | 13690.5 |
| 69°   | 1481.1 | 1483.7 | 1610.8 | 2134.8 | 2412.3 | 3501.7  | 12940.9 | 21238.7 | 21197.2 | 15630.7 | 13553.0 |
| 70°   | 1291.8 | 1302.1 | 1450.0 | 1986.9 | 2365.6 | 2879.2  | 11156.3 | 20782.2 | 20740.7 | 15791.5 | 13099.1 |
| 72.5° | 796.3  | 804.1  | 998.6  | 1592.6 | 2248.9 | 2350.1  | 6671.5  | 17002.9 | 17145.5 | 15054.9 | 11286.0 |
| 75°   | 381.3  | 383.9  | 524.0  | 1151.7 | 2168.5 | 2228.1  | 3574.4  | 12546.6 | 12847.5 | 12154.9 | 8819.2  |
| 77.5° | 202.3  | 202.3  | 251.6  | 612.2  | 1756.1 | 2095.9  | 2121.8  | 8850.3  | 9099.3  | 7685.7  | 5014.0  |
| 80°   | 101.2  | 103.8  | 153.0  | 319.0  | 1089.4 | 2054.4  | 1657.5  | 5278.5  | 5413.4  | 3136.0  | 1561.5  |
| 82.5° | 38.9   | 41.5   | 72.6   | 191.9  | 565.5  | 1735.3  | 1455.2  | 2596.5  | 2562.8  | 734.1   | 381.3   |
| 85°   | 5.2    | 5.2    | 25.9   | 114.1  | 241.2  | 765.2   | 1201.0  | 1084.2  | 1047.9  | 160.8   | 184.2   |
| 87.5° | 0.0    | 0.0    | 5.2    | 33.7   | 72.6   | 223.1   | 464.3   | 298.3   | 332.0   | 44.1    | 90.8    |
| 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°    | 4848.0  | 4848.0 | 4848.0 | 4848.0 | 4848.0 | 4848.0 | 4848.0 | 4848.0 | 4848.0 | 4848.0 | 4848.0 |
| 2.5°  | 4923.2  | 4868.7 | 4785.7 | 4705.3 | 4619.7 | 4515.9 | 4401.8 | 4360.3 | 4287.7 | 4282.5 | 4324.0 |
| 5°    | 4918.0  | 4829.8 | 4684.5 | 4513.3 | 4269.5 | 4085.4 | 3885.6 | 3740.4 | 3628.8 | 3556.2 | 3574.4 |
| 7.5°  | 4943.9  | 4837.6 | 4586.0 | 4217.6 | 3903.8 | 3538.1 | 3229.4 | 3016.7 | 2822.1 | 2726.2 | 2715.8 |
| 10°   | 4902.4  | 4759.8 | 4391.4 | 3875.3 | 3413.5 | 2902.6 | 2451.2 | 2165.9 | 1875.4 | 1769.0 | 1774.2 |
| 12.5° | 4925.8  | 4726.0 | 4181.3 | 3522.5 | 2887.0 | 2223.0 | 1683.4 | 1294.3 | 1022.0 | 933.8  | 923.4  |
| 15°   | 4941.3  | 4653.4 | 3979.0 | 3099.7 | 2303.4 | 1514.8 | 975.3  | 734.1  | 648.5  | 632.9  | 630.3  |
| 17.5° | 4881.7  | 4565.2 | 3693.7 | 2682.1 | 1706.8 | 920.8  | 648.5  | 599.2  | 583.6  | 573.2  | 568.1  |
| 20°   | 4879.1  | 4513.3 | 3447.3 | 2254.1 | 1138.7 | 627.7  | 560.3  | 542.1  | 518.8  | 511.0  | 511.0  |
| 22.5° | 4835.0  | 4404.4 | 3151.6 | 1784.6 | 726.3  | 539.5  | 503.2  | 474.7  | 448.7  | 438.4  | 435.8  |
| 25°   | 4822.0  | 4277.3 | 2874.0 | 1341.0 | 552.5  | 482.5  | 446.1  | 404.6  | 373.5  | 358.0  | 350.2  |
| 27.5° | 4785.7  | 4168.4 | 2593.9 | 944.2  | 482.5  | 430.6  | 383.9  | 339.8  | 303.5  | 280.1  | 277.5  |
| 30°   | 4656.0  | 4054.2 | 2282.6 | 653.7  | 438.4  | 381.3  | 329.4  | 277.5  | 241.2  | 225.7  | 220.5  |
| 32.5° | 4601.5  | 3947.9 | 1942.8 | 503.2  | 399.5  | 337.2  | 277.5  | 230.9  | 202.3  | 186.8  | 184.2  |
| 35°   | 4536.7  | 3792.3 | 1613.4 | 438.4  | 363.1  | 293.1  | 233.4  | 194.5  | 171.2  | 158.2  | 158.2  |
| 37.5° | 4544.5  | 3667.7 | 1304.7 | 396.9  | 324.2  | 251.6  | 199.7  | 166.0  | 145.3  | 132.3  | 132.3  |
| 40°   | 4521.1  | 3569.2 | 1014.2 | 360.5  | 287.9  | 215.3  | 168.6  | 140.1  | 121.9  | 108.9  | 106.3  |
| 42.5° | 4627.5  | 3543.2 | 765.2  | 329.4  | 251.6  | 184.2  | 145.3  | 119.3  | 101.2  | 85.6   | 85.6   |
| 45°   | 4806.5  | 3584.7 | 596.6  | 300.9  | 215.3  | 158.2  | 124.5  | 98.6   | 80.4   | 70.0   | 67.4   |
| 47.5° | 5283.7  | 3748.2 | 466.9  | 277.5  | 184.2  | 137.5  | 103.8  | 80.4   | 64.8   | 54.5   | 51.9   |
| 50°   | 5976.3  | 4113.9 | 396.9  | 243.8  | 155.6  | 116.7  | 85.6   | 62.3   | 51.9   | 41.5   | 38.9   |
| 52.5° | 6962.0  | 4728.6 | 360.5  | 215.3  | 129.7  | 96.0   | 67.4   | 49.3   | 38.9   | 31.1   | 28.5   |
| 55°   | 8035.8  | 5496.4 | 326.8  | 181.6  | 108.9  | 77.8   | 54.5   | 38.9   | 28.5   | 20.8   | 18.2   |
| 57.5° | 8873.7  | 6160.5 | 298.3  | 150.4  | 88.2   | 62.3   | 41.5   | 28.5   | 20.8   | 13.0   | 10.4   |
| 60°   | 9789.3  | 6627.4 | 262.0  | 119.3  | 72.6   | 46.7   | 31.1   | 20.8   | 15.6   | 7.8    | 7.8    |
| 62.5° | 10733.5 | 7174.7 | 215.3  | 93.4   | 57.1   | 36.3   | 23.3   | 15.6   | 10.4   | 2.6    | 2.6    |
| 65°   | 12046.0 | 7602.7 | 166.0  | 72.6   | 44.1   | 25.9   | 18.2   | 13.0   | 5.2    | 0.0    | 0.0    |
| 67.5° | 12416.9 | 7392.6 | 121.9  | 57.1   | 31.1   | 18.2   | 13.0   | 7.8    | 2.6    | 0.0    | 0.0    |
| 69°   | 12046.0 | 6658.5 | 106.3  | 49.3   | 25.9   | 15.6   | 10.4   | 5.2    | 2.6    | 0.0    | 0.0    |
| 70°   | 11369.0 | 6087.8 | 93.4   | 41.5   | 23.3   | 15.6   | 7.8    | 5.2    | 2.6    | 0.0    | 0.0    |
| 72.5° | 9509.2  | 4669.0 | 72.6   | 31.1   | 18.2   | 13.0   | 7.8    | 5.2    | 0.0    | 0.0    | 0.0    |
| 75°   | 6974.9  | 2884.4 | 54.5   | 23.3   | 15.6   | 10.4   | 7.8    | 5.2    | 0.0    | 0.0    | 0.0    |
| 77.5° | 3737.8  | 1053.1 | 38.9   | 15.6   | 10.4   | 7.8    | 7.8    | 5.2    | 0.0    | 0.0    | 0.0    |
| 80°   | 1024.6  | 311.3  | 28.5   | 10.4   | 7.8    | 5.2    | 5.2    | 2.6    | 0.0    | 0.0    | 0.0    |
| 82.5° | 280.1   | 80.4   | 18.2   | 10.4   | 7.8    | 5.2    | 2.6    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 150.4   | 31.1   | 10.4   | 7.8    | 5.2    | 2.6    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 77.8    | 10.4   | 7.8    | 5.2    | 5.2    | 2.6    | 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)