

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: P479434

Luminaire Tested: **IFLD-L-SA8A-760-U-5MQ**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P479434  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA8A-760-U-5MQ  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5MQ distribution lens  
Light Source: (128) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

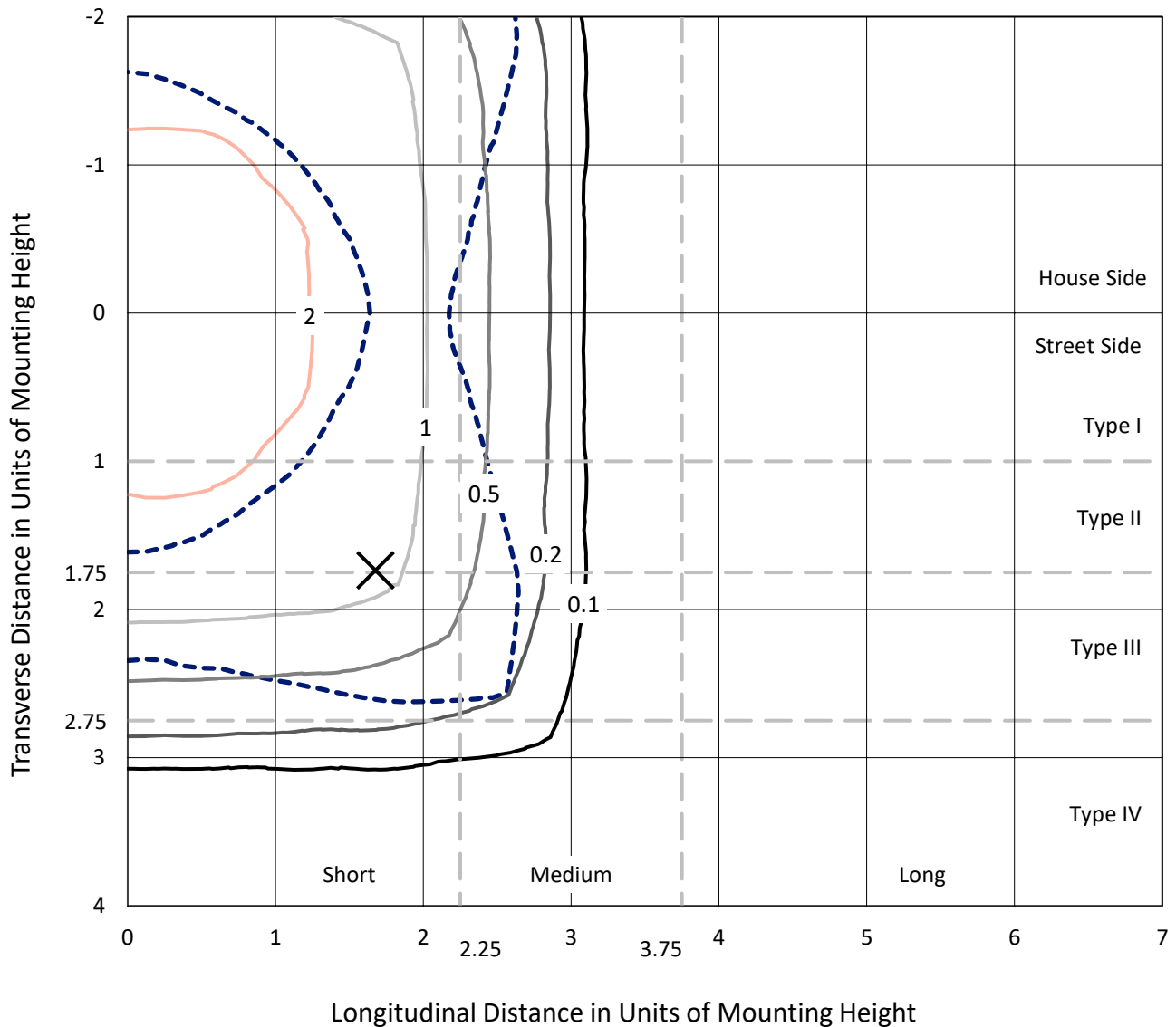
Lumens per Lamp: N/A  
Luminaire Lumens: 35370.4 lumens  
Efficiency: N/A  
Efficacy: 142.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G4

Input Watts (W): 247.8  
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

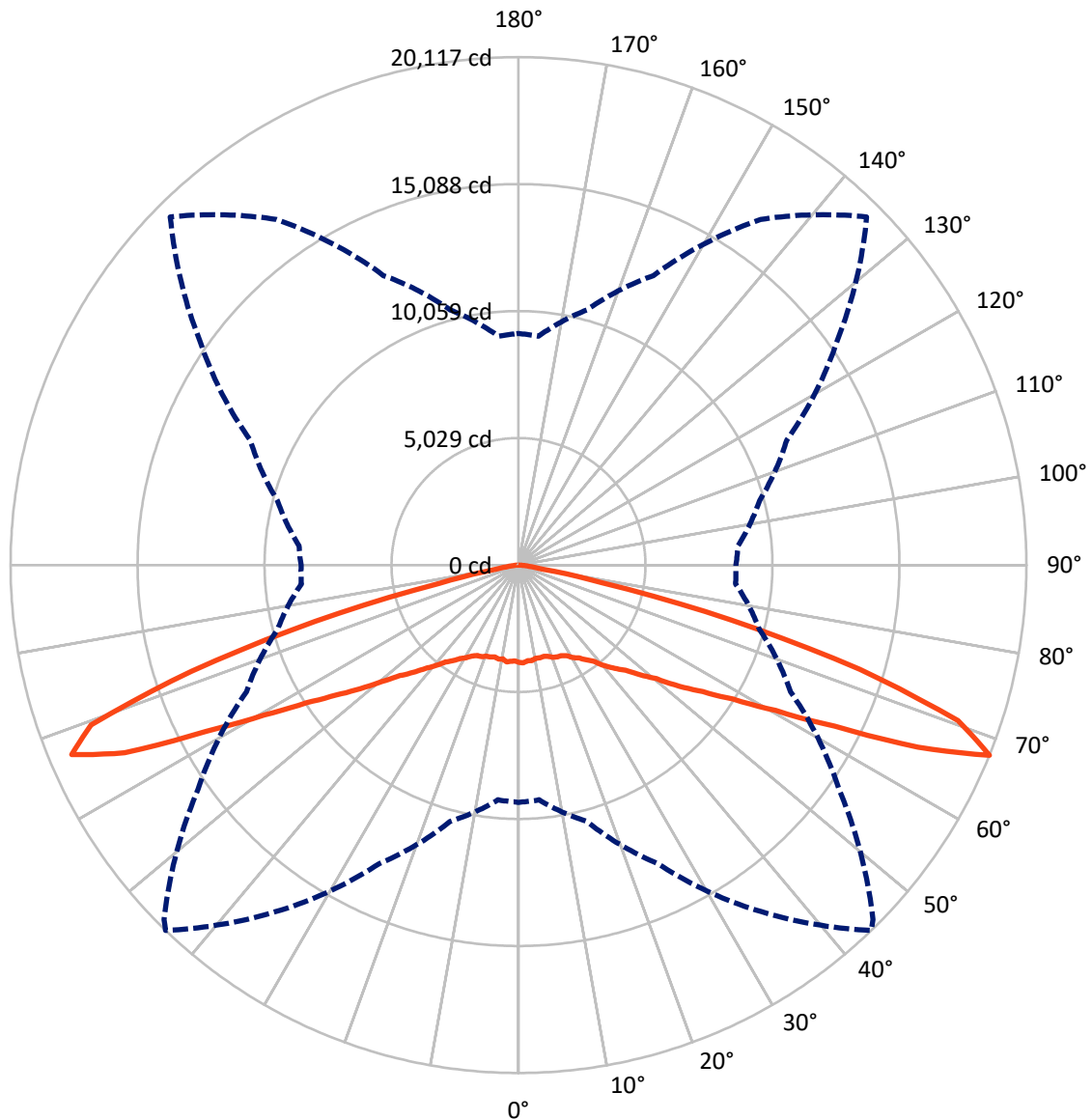
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.3 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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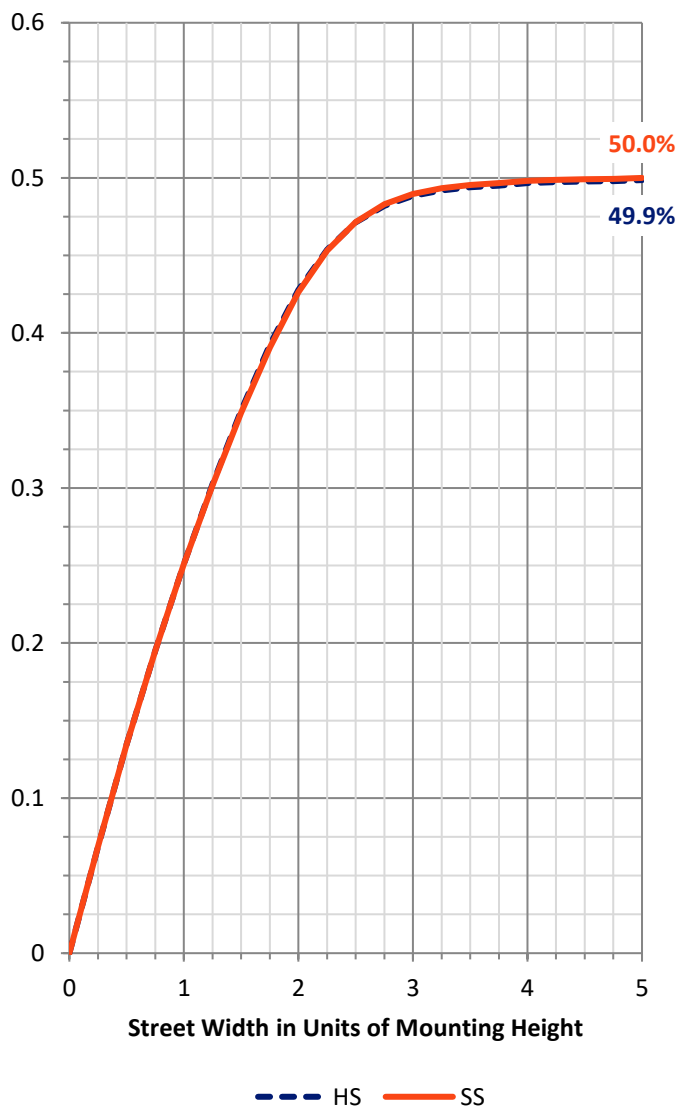
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 17639.9  | 0.0    | 17639.9 |
|                    | % Fixture | 49.9     | 0.0    | 49.9    |
| <b>Street Side</b> | Lumens    | 17730.5  | 0.0    | 17730.5 |
|                    | % Fixture | 50.1     | 0.0    | 50.1    |
| <b>Total</b>       | Lumens    | 35370.4  | 0.0    | 35370.4 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 365.6   | 1.0       |
| 10°-20°   | 1068.1  | 3.0       |
| 20°-30°   | 1816.4  | 5.1       |
| 30°-40°   | 2880.0  | 8.1       |
| 40°-50°   | 4696.1  | 13.3      |
| 50°-60°   | 8020.3  | 22.7      |
| 60°-70°   | 12198.7 | 34.5      |
| 70°-80°   | 4111.7  | 11.6      |
| 80°-90°   | 213.5   | 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°    | 35370.4 | 100.0     |
| 0°-180°   | 35370.4 | 100.0     |

**Coefficient of Utilization**



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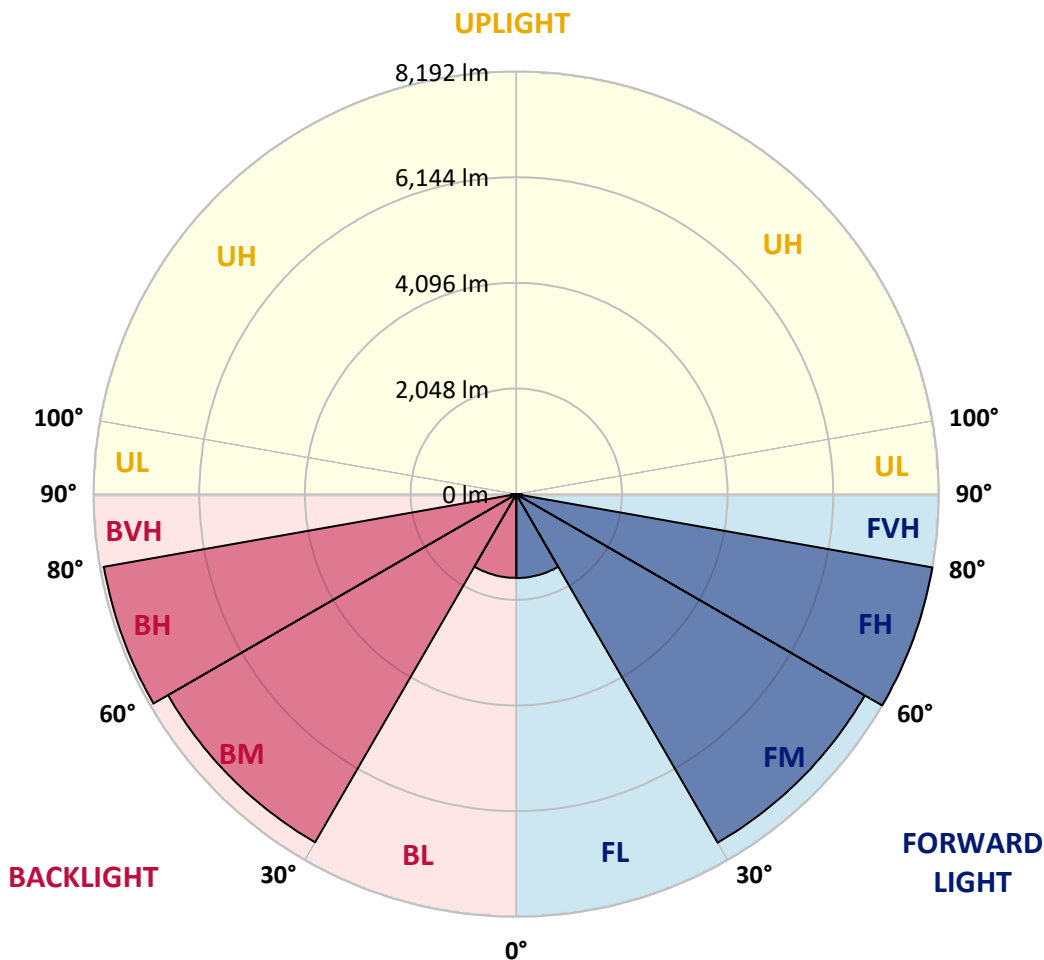
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |          |
|----------------|--------|-----------|-------------------------|------|----------|
|                |        |           | B                       | U    | G        |
| FL (0°-30°)    | 1626.7 | 4.6       |                         |      |          |
| FM (30°-60°)   | 7802.4 | 22.1      |                         |      |          |
| FH (60°-80°)   | 8192.2 | 23.2      |                         |      | G4/12000 |
| FVH (80°-90°)  | 109.2  | 0.3       |                         |      | G2/225   |
| BL (0°-30°)    | 1623.4 | 4.6       | B3/2500                 |      |          |
| BM (30°-60°)   | 7793.9 | 22.0      | B4/8500                 |      |          |
| BH (60°-80°)   | 8118.3 | 23.0      | B5                      |      | G4/12000 |
| BVH (80°-90°)  | 104.3  | 0.3       |                         |      | G2/225   |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |          |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |          |

**BUG Rating: B5-U0-G4**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 44°     | 45°     | 55°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 3863.6  | 3863.6  | 3863.6  | 3863.6  | 3863.6  | 3863.6  | 3863.6  | 3863.6  | 3863.6  | 3863.6  | 3863.6  |
| 2.5°  | 3774.8  | 3819.2  | 3851.5  | 3847.5  | 3859.6  | 3871.7  | 3855.5  | 3879.8  | 3863.6  | 3891.9  | 3908.0  |
| 5°    | 3847.5  | 3835.3  | 3839.4  | 3815.2  | 3871.7  | 3807.1  | 3807.1  | 3839.4  | 3879.8  | 3831.3  | 3859.6  |
| 7.5°  | 3803.0  | 3795.0  | 3774.8  | 3811.1  | 3823.2  | 3823.2  | 3855.5  | 3795.0  | 3863.6  | 3879.8  | 3883.8  |
| 10°   | 3754.6  | 3710.2  | 3770.7  | 3807.1  | 3815.2  | 3750.6  | 3778.8  | 3795.0  | 3774.8  | 3795.0  | 3807.1  |
| 12.5° | 3714.2  | 3738.5  | 3738.5  | 3738.5  | 3726.3  | 3770.7  | 3799.0  | 3795.0  | 3754.6  | 3790.9  | 3726.3  |
| 15°   | 3710.2  | 3698.1  | 3734.4  | 3766.7  | 3746.5  | 3754.6  | 3766.7  | 3803.0  | 3726.3  | 3742.5  | 3742.5  |
| 17.5° | 3706.2  | 3722.3  | 3734.4  | 3730.4  | 3799.0  | 3799.0  | 3786.9  | 3762.7  | 3823.2  | 3790.9  | 3746.5  |
| 20°   | 3722.3  | 3710.2  | 3742.5  | 3754.6  | 3803.0  | 3899.9  | 3863.6  | 3843.4  | 3811.1  | 3770.7  | 3770.7  |
| 22.5° | 3742.5  | 3734.4  | 3778.8  | 3831.3  | 3924.2  | 3948.4  | 3944.3  | 3920.1  | 3863.6  | 3815.2  | 3807.1  |
| 25°   | 3815.2  | 3742.5  | 3790.9  | 3891.9  | 3924.2  | 3972.6  | 4004.9  | 3972.6  | 3895.9  | 3908.0  | 3835.3  |
| 27.5° | 3924.2  | 3912.1  | 3976.6  | 4045.3  | 4017.0  | 4061.4  | 4033.2  | 4057.4  | 4061.4  | 4000.9  | 3928.2  |
| 30°   | 4053.4  | 4017.0  | 4057.4  | 4190.6  | 4202.7  | 4251.2  | 4202.7  | 4138.1  | 4158.3  | 4105.8  | 4069.5  |
| 32.5° | 4239.1  | 4227.0  | 4303.7  | 4392.5  | 4408.6  | 4384.4  | 4360.2  | 4396.5  | 4311.7  | 4271.4  | 4206.8  |
| 35°   | 4360.2  | 4412.7  | 4505.5  | 4574.2  | 4626.6  | 4602.4  | 4614.5  | 4578.2  | 4598.4  | 4513.6  | 4485.3  |
| 37.5° | 4719.5  | 4699.3  | 4719.5  | 4836.6  | 4848.7  | 4836.6  | 4848.7  | 4889.1  | 4860.8  | 4788.1  | 4715.5  |
| 40°   | 5058.6  | 5026.3  | 5074.8  | 5208.0  | 5199.9  | 5240.3  | 5159.5  | 5204.0  | 5204.0  | 5066.7  | 5038.4  |
| 42.5° | 5313.0  | 5422.0  | 5478.5  | 5587.5  | 5627.9  | 5591.5  | 5575.4  | 5583.5  | 5672.3  | 5510.8  | 5450.2  |
| 45°   | 5837.8  | 5833.8  | 6003.3  | 6063.9  | 5950.8  | 5942.8  | 5910.5  | 6007.4  | 6067.9  | 5975.1  | 5950.8  |
| 47.5° | 6407.0  | 6435.3  | 6532.2  | 6556.4  | 6625.1  | 6499.9  | 6499.9  | 6512.0  | 6726.0  | 6508.0  | 6394.9  |
| 50°   | 6919.8  | 6956.1  | 7149.9  | 7339.6  | 7210.4  | 7077.2  | 7129.7  | 7194.3  | 7311.4  | 7105.5  | 7008.6  |
| 52.5° | 7541.5  | 7739.3  | 7868.5  | 7969.4  | 8062.3  | 7969.4  | 7848.3  | 7921.0  | 8151.1  | 7876.6  | 7755.5  |
| 55°   | 8437.8  | 8595.2  | 8716.3  | 8902.0  | 8978.7  | 8853.6  | 8841.5  | 8833.4  | 8962.6  | 8671.9  | 8506.4  |
| 57.5° | 9439.0  | 9374.4  | 9568.2  | 9854.8  | 10133.4 | 10012.3 | 9975.9  | 9984.0  | 10016.3 | 9604.5  | 9479.4  |
| 60°   | 10682.4 | 10755.1 | 10985.2 | 11235.5 | 11530.3 | 11699.8 | 11461.6 | 11324.4 | 11352.6 | 10791.5 | 10597.7 |
| 62.5° | 11393.0 | 11554.5 | 12075.3 | 12935.2 | 13528.7 | 14057.5 | 14093.9 | 13201.7 | 12604.2 | 11514.1 | 10690.5 |
| 65°   | 11049.8 | 11025.6 | 12006.6 | 13597.3 | 15846.0 | 17384.2 | 17154.1 | 14990.1 | 12902.9 | 11170.9 | 10064.8 |
| 67.5° | 9398.6  | 9334.0  | 10521.0 | 13044.2 | 16758.4 | 20117.4 | 19855.0 | 15494.8 | 11893.6 | 9883.1  | 8631.5  |
| 70°   | 6055.8  | 6039.7  | 7327.5  | 9943.6  | 14961.9 | 18470.2 | 18567.1 | 14073.7 | 9681.2  | 7238.7  | 5999.3  |
| 72.5° | 2200.3  | 2333.5  | 3080.4  | 5345.3  | 10161.6 | 14130.2 | 14190.8 | 10420.0 | 5567.3  | 3346.8  | 2466.7  |
| 75°   | 811.5   | 835.7   | 973.0   | 1736.0  | 4630.7  | 8676.0  | 8902.0  | 5054.6  | 1978.2  | 1090.0  | 888.2   |
| 77.5° | 468.3   | 472.4   | 520.8   | 646.0   | 1372.6  | 3387.2  | 3524.5  | 1534.1  | 767.1   | 581.4   | 536.9   |
| 80°   | 318.9   | 314.9   | 367.4   | 419.9   | 549.1   | 960.9   | 1021.4  | 641.9   | 484.5   | 403.7   | 339.1   |
| 82.5° | 185.7   | 197.8   | 270.5   | 298.8   | 335.1   | 423.9   | 432.0   | 399.7   | 363.3   | 298.8   | 222.0   |
| 85°   | 113.0   | 92.9    | 149.4   | 165.5   | 193.8   | 189.7   | 189.7   | 218.0   | 234.2   | 209.9   | 125.2   |
| 87.5° | 28.3    | 28.3    | 36.3    | 40.4    | 52.5    | 40.4    | 44.4    | 84.8    | 113.0   | 105.0   | 64.6    |
| 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°    | 3863.6  | 3863.6  | 3863.6  | 3863.6  | 3863.6  | 3863.6  | 3863.6  | 3863.6  | 3863.6  | 3863.6  | 3863.6  |
| 2.5°  | 3871.7  | 3859.6  | 3867.6  | 3912.1  | 3883.8  | 3799.0  | 3819.2  | 3863.6  | 3827.3  | 3807.1  | 3803.0  |
| 5°    | 3855.5  | 3879.8  | 3851.5  | 3859.6  | 3887.8  | 3819.2  | 3831.3  | 3887.8  | 3863.6  | 3871.7  | 3827.3  |
| 7.5°  | 3859.6  | 3871.7  | 3847.5  | 3811.1  | 3811.1  | 3867.6  | 3835.3  | 3843.4  | 3807.1  | 3867.6  | 3786.9  |
| 10°   | 3835.3  | 3803.0  | 3774.8  | 3795.0  | 3786.9  | 3770.7  | 3758.6  | 3782.9  | 3746.5  | 3799.0  | 3742.5  |
| 12.5° | 3762.7  | 3770.7  | 3762.7  | 3754.6  | 3770.7  | 3811.1  | 3746.5  | 3754.6  | 3698.1  | 3706.2  | 3734.4  |
| 15°   | 3734.4  | 3758.6  | 3750.6  | 3795.0  | 3815.2  | 3754.6  | 3803.0  | 3754.6  | 3710.2  | 3686.0  | 3730.4  |
| 17.5° | 3746.5  | 3782.9  | 3770.7  | 3803.0  | 3766.7  | 3811.1  | 3819.2  | 3799.0  | 3746.5  | 3726.3  | 3746.5  |
| 20°   | 3758.6  | 3746.5  | 3762.7  | 3819.2  | 3871.7  | 3827.3  | 3827.3  | 3815.2  | 3766.7  | 3738.5  | 3738.5  |
| 22.5° | 3786.9  | 3766.7  | 3790.9  | 3835.3  | 3851.5  | 3920.1  | 3859.6  | 3831.3  | 3750.6  | 3677.9  | 3746.5  |
| 25°   | 3843.4  | 3855.5  | 3871.7  | 3855.5  | 3944.3  | 3936.3  | 3928.2  | 3908.0  | 3782.9  | 3786.9  | 3774.8  |
| 27.5° | 3952.4  | 3883.8  | 3904.0  | 4000.9  | 4013.0  | 4045.3  | 4004.9  | 4041.2  | 3908.0  | 3912.1  | 3831.3  |
| 30°   | 4085.7  | 4013.0  | 4077.6  | 4162.4  | 4158.3  | 4218.9  | 4198.7  | 4206.8  | 4113.9  | 4061.4  | 3952.4  |
| 32.5° | 4231.0  | 4222.9  | 4263.3  | 4315.8  | 4336.0  | 4368.3  | 4364.2  | 4364.2  | 4307.7  | 4170.4  | 4190.6  |
| 35°   | 4392.5  | 4449.0  | 4497.4  | 4554.0  | 4562.0  | 4602.4  | 4545.9  | 4554.0  | 4497.4  | 4396.5  | 4428.8  |
| 37.5° | 4711.4  | 4707.4  | 4759.9  | 4828.5  | 4836.6  | 4804.3  | 4848.7  | 4828.5  | 4751.8  | 4683.2  | 4630.7  |
| 40°   | 5082.8  | 5002.1  | 5050.5  | 5212.0  | 5224.1  | 5167.6  | 5163.6  | 5159.5  | 5103.0  | 4953.7  | 4921.4  |
| 42.5° | 5405.8  | 5510.8  | 5502.7  | 5555.2  | 5518.9  | 5490.6  | 5591.5  | 5535.0  | 5490.6  | 5333.1  | 5304.9  |
| 45°   | 5821.7  | 5853.9  | 5958.9  | 6128.5  | 5954.9  | 5954.9  | 6023.5  | 5979.1  | 5954.9  | 5837.8  | 5728.8  |
| 47.5° | 6338.4  | 6366.7  | 6576.6  | 6588.7  | 6475.7  | 6399.0  | 6612.9  | 6621.0  | 6520.1  | 6431.3  | 6298.0  |
| 50°   | 6944.0  | 6956.1  | 7145.9  | 7339.6  | 7214.5  | 7069.1  | 7287.2  | 7371.9  | 7145.9  | 7024.7  | 6859.2  |
| 52.5° | 7610.1  | 7573.8  | 7731.2  | 8094.6  | 7973.5  | 7929.1  | 8163.2  | 8183.4  | 7876.6  | 7686.8  | 7731.2  |
| 55°   | 8377.2  | 8328.8  | 8756.7  | 9003.0  | 8926.3  | 8845.5  | 8950.5  | 8998.9  | 8752.7  | 8441.8  | 8550.8  |
| 57.5° | 9370.4  | 9394.6  | 9608.5  | 9850.8  | 9975.9  | 9996.1  | 10044.6 | 9996.1  | 9745.8  | 9430.9  | 9330.0  |
| 60°   | 10363.5 | 10436.2 | 10852.0 | 11308.2 | 11348.6 | 11703.9 | 11639.3 | 11397.0 | 11041.8 | 10593.6 | 10613.8 |
| 62.5° | 10730.9 | 10670.3 | 11340.5 | 12454.8 | 13403.5 | 14053.5 | 13766.9 | 12906.9 | 12083.4 | 11267.8 | 11328.4 |
| 65°   | 9992.1  | 10141.5 | 11053.9 | 12797.9 | 14856.9 | 17428.6 | 15902.6 | 13524.6 | 11861.3 | 10807.6 | 10690.5 |
| 67.5° | 8611.4  | 8724.4  | 9883.1  | 11724.0 | 15377.7 | 19503.7 | 16710.0 | 12652.6 | 10460.4 | 9095.8  | 9168.5  |
| 70°   | 5999.3  | 6055.8  | 7190.3  | 9604.5  | 13944.5 | 18405.6 | 15074.9 | 9717.6  | 7222.6  | 5757.1  | 5837.8  |
| 72.5° | 2414.2  | 2551.5  | 3298.4  | 5785.3  | 10294.9 | 13984.9 | 10149.5 | 5099.0  | 2995.6  | 2228.5  | 2022.6  |
| 75°   | 892.2   | 896.3   | 1053.7  | 1990.3  | 4889.1  | 8789.0  | 4578.2  | 1639.1  | 956.8   | 783.2   | 746.9   |
| 77.5° | 516.8   | 512.7   | 549.1   | 718.6   | 1417.1  | 3431.6  | 1300.0  | 641.9   | 520.8   | 468.3   | 448.1   |
| 80°   | 323.0   | 318.9   | 375.5   | 476.4   | 621.7   | 940.7   | 549.1   | 399.7   | 351.2   | 302.8   | 302.8   |
| 82.5° | 205.9   | 209.9   | 294.7   | 351.2   | 379.5   | 415.8   | 318.9   | 282.6   | 262.4   | 173.6   | 169.6   |
| 85°   | 133.2   | 121.1   | 205.9   | 234.2   | 209.9   | 185.7   | 177.6   | 149.4   | 137.3   | 84.8    | 92.9    |
| 87.5° | 60.6    | 64.6    | 105.0   | 117.1   | 76.7    | 44.4    | 44.4    | 32.3    | 32.3    | 20.2    | 20.2    |
| 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)