

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: P481460

Luminaire Tested: **IFLD-L-SA7D-830-U-RW**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P481460  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7D-830-U-RW  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ RW distribution lens  
Light Source: (112) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

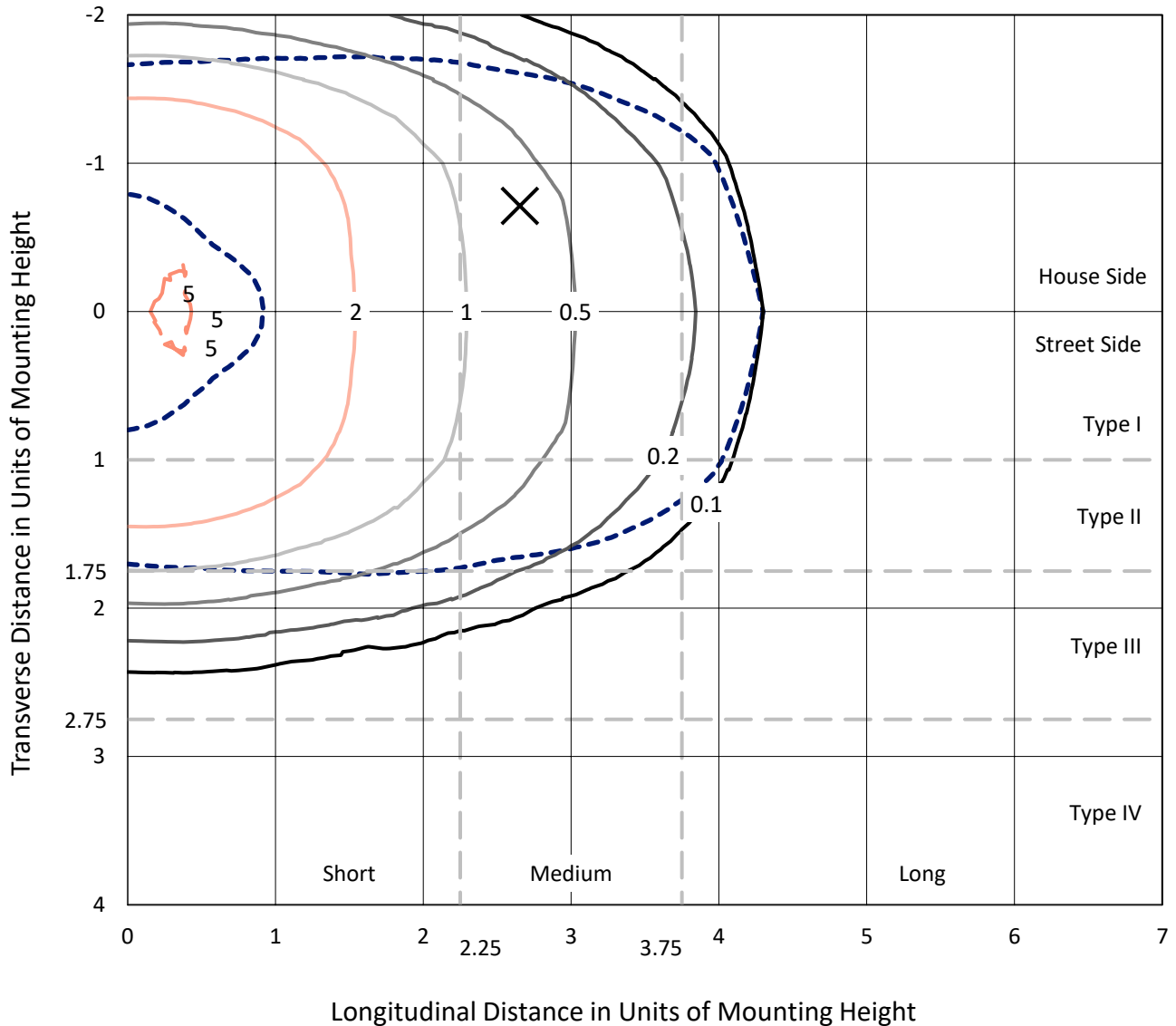
Lumens per Lamp: N/A  
Luminaire Lumens: 39923.7 lumens  
Efficiency: N/A  
Efficacy: 94.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B5 - U0 - G5

Input Watts (W): 422.6  
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

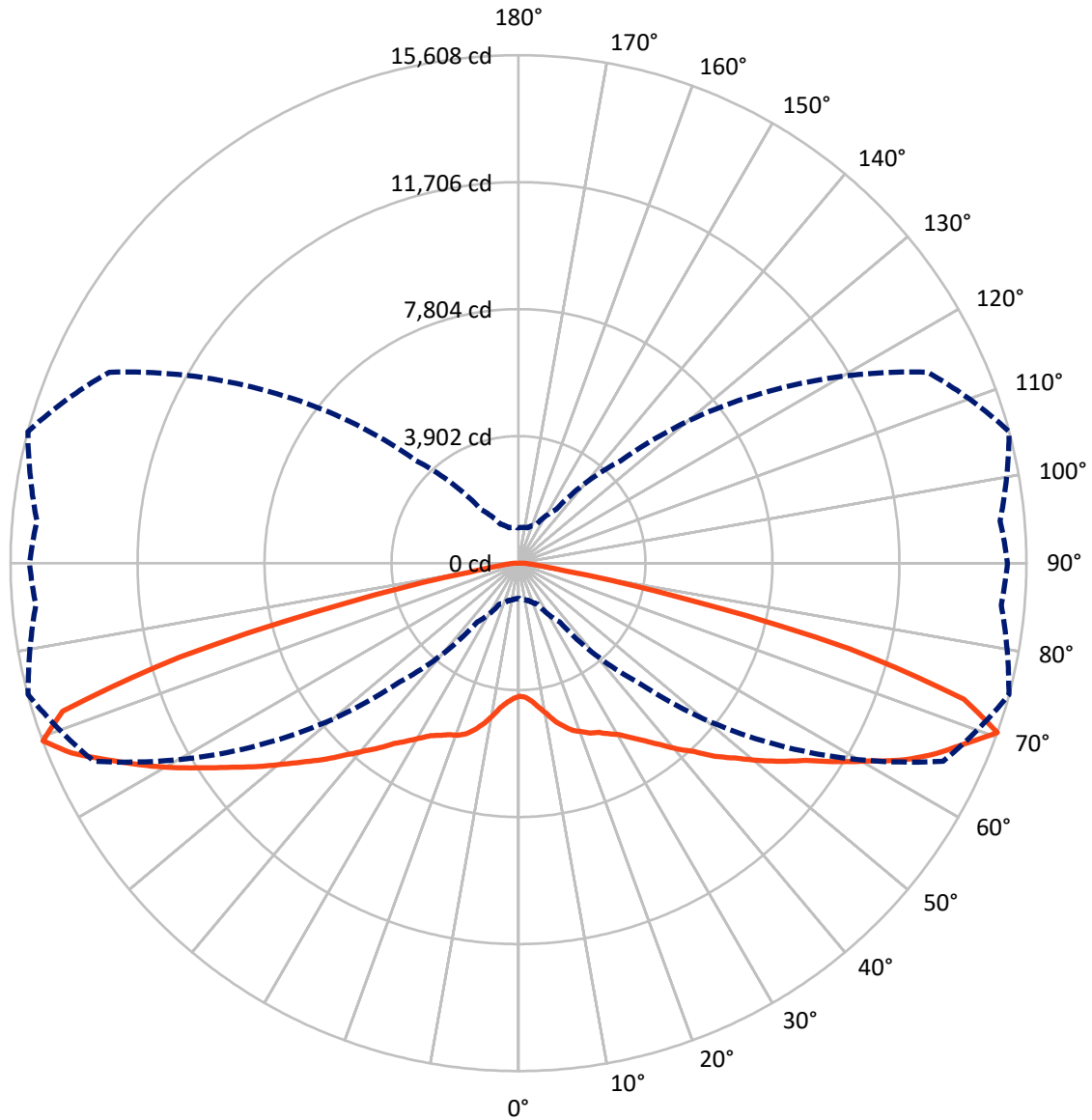
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.4 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 105-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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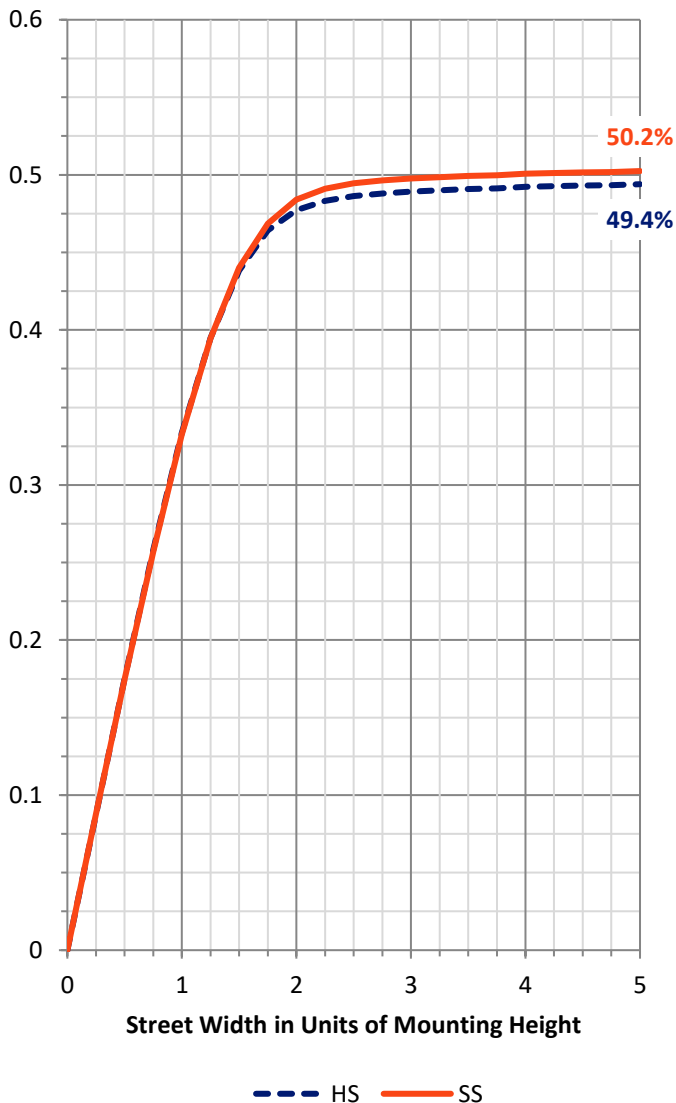
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 19819.8  | 0.0    | 19819.8 |
|                    | % Fixture | 49.6     | 0.0    | 49.6    |
| <b>Street Side</b> | Lumens    | 20103.9  | 0.0    | 20103.9 |
|                    | % Fixture | 50.4     | 0.0    | 50.4    |
| <b>Total</b>       | Lumens    | 39923.7  | 0.0    | 39923.7 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 406.9   | 1.0       |
| 10°-20°   | 1385.5  | 3.5       |
| 20°-30°   | 2682.8  | 6.7       |
| 30°-40°   | 4537.7  | 11.4      |
| 40°-50°   | 7239.0  | 18.1      |
| 50°-60°   | 9908.5  | 24.8      |
| 60°-70°   | 9339.5  | 23.4      |
| 70°-80°   | 4114.3  | 10.3      |
| 80°-90°   | 309.6   | 0.8       |
| 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°    | 39923.7 | 100.0     |
| 0°-180°   | 39923.7 | 100.0     |

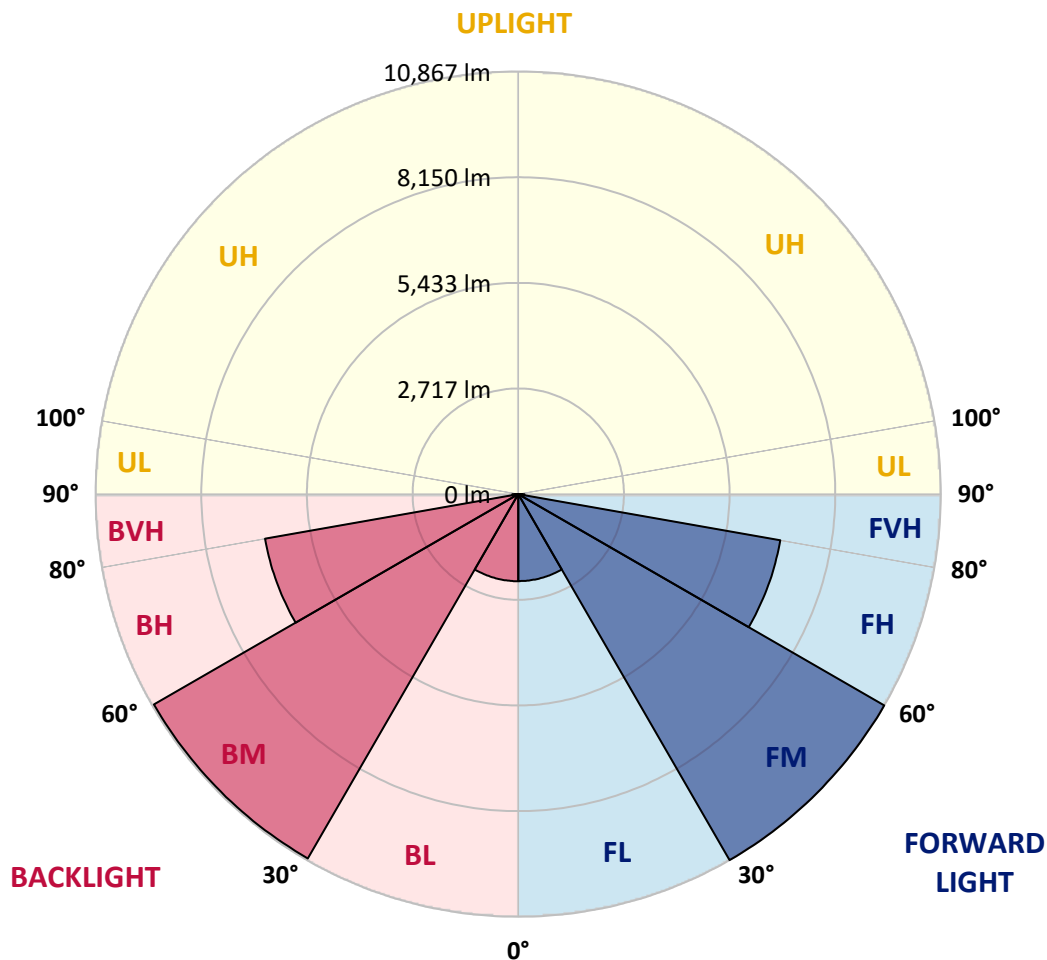


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|---------|-----------|-------------------------|------|---------|
|                |         |           | B                       | U    | G       |
| FL (0°-30°)    | 2236.4  | 5.6       |                         |      |         |
| FM (30°-60°)   | 10866.9 | 27.2      |                         |      |         |
| FH (60°-80°)   | 6842.5  | 17.1      |                         |      | G3/7500 |
| FVH (80°-90°)  | 158.1   | 0.4       |                         |      | G2/225  |
| BL (0°-30°)    | 2238.8  | 5.6       | B3/2500                 |      |         |
| BM (30°-60°)   | 10818.3 | 27.1      | B5                      |      |         |
| BH (60°-80°)   | 6611.3  | 16.6      | B5                      |      | G5      |
| BVH (80°-90°)  | 151.4   | 0.4       |                         |      | G2/225  |
| UL (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B5-U0-G5**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 85°     | 90°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 4088.1  | 4088.1  | 4088.1  | 4088.1  | 4088.1  | 4088.1  | 4088.1  | 4088.1  | 4088.1  | 4088.1  | 4088.1  |
| 2.5°  | 4062.3  | 4062.3  | 4058.0  | 4079.5  | 4101.1  | 4109.7  | 4126.9  | 4131.2  | 4157.0  | 4135.5  | 4178.5  |
| 5°    | 4049.4  | 4045.1  | 4079.5  | 4131.2  | 4131.2  | 4187.1  | 4221.6  | 4268.9  | 4281.8  | 4307.6  | 4316.2  |
| 7.5°  | 4139.8  | 4131.2  | 4114.0  | 4169.9  | 4217.2  | 4303.3  | 4350.7  | 4432.4  | 4462.5  | 4497.0  | 4535.7  |
| 10°   | 4195.7  | 4195.7  | 4178.5  | 4277.5  | 4320.5  | 4436.7  | 4540.0  | 4621.8  | 4737.9  | 4776.7  | 4781.0  |
| 12.5° | 4204.3  | 4217.2  | 4268.9  | 4398.0  | 4518.5  | 4669.1  | 4746.6  | 4901.5  | 5017.7  | 5090.8  | 5116.6  |
| 15°   | 4333.4  | 4307.6  | 4363.6  | 4540.0  | 4716.4  | 4849.8  | 4987.5  | 5099.4  | 5267.3  | 5361.9  | 5422.2  |
| 17.5° | 4449.6  | 4423.8  | 4527.1  | 4737.9  | 4918.7  | 5125.2  | 5245.7  | 5366.2  | 5486.7  | 5572.8  | 5577.1  |
| 20°   | 4634.7  | 4656.2  | 4746.6  | 4974.6  | 5211.3  | 5392.1  | 5529.8  | 5551.3  | 5611.5  | 5736.3  | 5714.8  |
| 22.5° | 4862.7  | 4845.5  | 5034.9  | 5284.5  | 5542.7  | 5693.3  | 5770.7  | 5714.8  | 5684.7  | 5818.1  | 5848.2  |
| 25°   | 5090.8  | 5142.5  | 5314.6  | 5547.0  | 5856.8  | 6059.1  | 6080.6  | 5925.7  | 5813.8  | 5861.1  | 5848.2  |
| 27.5° | 5439.4  | 5448.0  | 5628.7  | 5904.1  | 6218.3  | 6394.7  | 6381.8  | 6162.3  | 5947.2  | 5951.5  | 5960.1  |
| 30°   | 5886.9  | 5843.9  | 6041.9  | 6291.4  | 6601.3  | 6760.5  | 6782.0  | 6467.9  | 6179.6  | 6093.5  | 6115.0  |
| 32.5° | 6317.3  | 6368.9  | 6541.0  | 6825.1  | 7053.1  | 7143.5  | 7096.2  | 6816.4  | 6442.1  | 6325.9  | 6338.8  |
| 35°   | 6868.1  | 6859.5  | 7096.2  | 7337.1  | 7509.3  | 7526.5  | 7487.8  | 7079.0  | 6726.1  | 6575.5  | 6515.2  |
| 37.5° | 7457.6  | 7535.1  | 7690.0  | 7888.0  | 8068.7  | 8077.3  | 7866.5  | 7539.4  | 7104.8  | 6855.2  | 6928.3  |
| 40°   | 8116.0  | 8202.1  | 8314.0  | 8602.3  | 8735.7  | 8598.0  | 8382.9  | 7939.6  | 7487.8  | 7268.3  | 7302.7  |
| 42.5° | 8697.0  | 8735.7  | 8963.8  | 9303.8  | 9368.3  | 9308.1  | 8989.6  | 8451.7  | 7926.7  | 7685.7  | 7702.9  |
| 45°   | 9230.6  | 9282.2  | 9579.2  | 9884.7  | 10035.3 | 9932.0  | 9562.0  | 9049.9  | 8438.8  | 8232.2  | 8150.5  |
| 47.5° | 9721.2  | 9824.5  | 10112.8 | 10426.9 | 10659.3 | 10667.9 | 10211.8 | 9592.1  | 8946.6  | 8675.5  | 8671.2  |
| 50°   | 10052.5 | 10203.2 | 10487.2 | 10844.4 | 11184.3 | 11317.7 | 10861.6 | 10194.5 | 9501.7  | 9213.4  | 9183.3  |
| 52.5° | 10233.3 | 10388.2 | 10672.2 | 11227.3 | 11606.0 | 11812.6 | 11597.4 | 10758.3 | 10151.5 | 9850.3  | 9802.9  |
| 55°   | 10013.8 | 10117.1 | 10581.8 | 11360.7 | 11946.0 | 12286.0 | 12144.0 | 11537.2 | 10797.0 | 10551.7 | 10594.8 |
| 57.5° | 9080.0  | 9295.2  | 9867.5  | 10840.0 | 11937.4 | 12772.2 | 12759.3 | 12273.1 | 11541.5 | 11309.1 | 11317.7 |
| 60°   | 7474.9  | 7655.6  | 8361.3  | 9721.2  | 11455.4 | 12970.2 | 13426.3 | 12987.4 | 12376.3 | 12105.2 | 12096.6 |
| 62.5° | 5275.9  | 5503.9  | 6321.6  | 7806.2  | 10035.3 | 12694.8 | 14192.3 | 13886.8 | 13194.0 | 12996.0 | 13069.2 |
| 65°   | 2952.1  | 3089.8  | 3847.2  | 5189.8  | 7647.0  | 11180.0 | 14330.0 | 14820.6 | 14024.5 | 13723.3 | 13736.2 |
| 67.5° | 1579.3  | 1631.0  | 1983.8  | 2724.0  | 4677.7  | 8619.5  | 12940.1 | 15358.5 | 14923.9 | 14403.2 | 14321.4 |
| 70°   | 1084.4  | 1101.6  | 1192.0  | 1394.3  | 2211.9  | 5155.4  | 9759.9  | 14398.9 | 15599.5 | 14889.5 | 15027.2 |
| 72.5° | 916.6   | 908.0   | 929.5   | 951.0   | 1157.6  | 2306.6  | 5727.7  | 11081.0 | 14725.9 | 14459.1 | 14407.5 |
| 75°   | 796.1   | 791.8   | 800.4   | 778.9   | 804.7   | 1015.6  | 2534.7  | 6906.8  | 10779.8 | 12032.1 | 12225.7 |
| 77.5° | 658.4   | 662.7   | 667.0   | 645.5   | 636.9   | 671.3   | 1019.9  | 3033.8  | 5306.0  | 5856.8  | 6317.3  |
| 80°   | 499.2   | 507.8   | 542.2   | 520.7   | 486.3   | 490.6   | 602.5   | 1015.6  | 1523.4  | 1381.4  | 1424.4  |
| 82.5° | 340.0   | 344.3   | 417.4   | 391.6   | 365.8   | 331.4   | 387.3   | 525.0   | 593.9   | 451.8   | 395.9   |
| 85°   | 241.0   | 236.7   | 271.1   | 249.6   | 232.4   | 167.8   | 232.4   | 296.9   | 357.2   | 223.8   | 202.3   |
| 87.5° | 55.9    | 55.9    | 111.9   | 90.4    | 86.1    | 68.9    | 90.4    | 116.2   | 154.9   | 99.0    | 90.4    |
| 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):**

|       | 95°     | 105°    | 115°    | 125°    | 135°    | 145°    | 155°    | 165°    | 175°    | 180°    |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 4088.1  | 4088.1  | 4088.1  | 4088.1  | 4088.1  | 4088.1  | 4088.1  | 4088.1  | 4088.1  | 4088.1  |
| 2.5°  | 4165.6  | 4126.9  | 4126.9  | 4118.3  | 4083.8  | 4075.2  | 4045.1  | 4053.7  | 4032.2  | 4010.7  |
| 5°    | 4311.9  | 4260.3  | 4260.3  | 4187.1  | 4118.3  | 4109.7  | 4075.2  | 4075.2  | 4040.8  | 4049.4  |
| 7.5°  | 4514.2  | 4466.8  | 4389.4  | 4324.8  | 4230.2  | 4191.4  | 4126.9  | 4118.3  | 4109.7  | 4092.5  |
| 10°   | 4755.2  | 4694.9  | 4617.5  | 4484.1  | 4406.6  | 4333.4  | 4268.9  | 4178.5  | 4157.0  | 4161.3  |
| 12.5° | 5082.2  | 4987.5  | 4819.7  | 4703.5  | 4604.5  | 4509.9  | 4415.2  | 4281.8  | 4251.7  | 4264.6  |
| 15°   | 5314.6  | 5194.1  | 5026.3  | 4983.2  | 4849.8  | 4733.6  | 4578.7  | 4428.1  | 4376.5  | 4363.6  |
| 17.5° | 5503.9  | 5405.0  | 5306.0  | 5241.4  | 5133.9  | 4991.8  | 4776.7  | 4604.5  | 4488.4  | 4475.4  |
| 20°   | 5658.9  | 5529.8  | 5508.2  | 5547.0  | 5413.6  | 5318.9  | 5056.4  | 4845.5  | 4690.6  | 4626.1  |
| 22.5° | 5753.5  | 5671.8  | 5732.0  | 5766.4  | 5757.8  | 5598.6  | 5327.5  | 5082.2  | 4888.6  | 4828.3  |
| 25°   | 5856.8  | 5762.1  | 5977.3  | 6093.5  | 6123.6  | 5861.1  | 5650.3  | 5327.5  | 5138.2  | 5099.4  |
| 27.5° | 5908.4  | 5942.9  | 6192.5  | 6437.8  | 6416.2  | 6214.0  | 5930.0  | 5641.6  | 5491.0  | 5422.2  |
| 30°   | 6059.1  | 6115.0  | 6493.7  | 6769.1  | 6773.4  | 6575.5  | 6360.3  | 6033.2  | 5865.4  | 5835.3  |
| 32.5° | 6330.2  | 6399.0  | 6803.5  | 7096.2  | 7147.8  | 6997.2  | 6782.0  | 6579.8  | 6407.6  | 6338.8  |
| 35°   | 6536.7  | 6713.2  | 7169.3  | 7436.1  | 7573.8  | 7483.5  | 7363.0  | 7152.1  | 6971.4  | 6911.1  |
| 37.5° | 6833.7  | 7079.0  | 7517.9  | 7879.4  | 8034.3  | 8025.7  | 7935.3  | 7707.2  | 7556.6  | 7505.0  |
| 40°   | 7259.7  | 7505.0  | 7905.2  | 8382.9  | 8671.2  | 8658.3  | 8606.6  | 8430.2  | 8206.4  | 8180.6  |
| 42.5° | 7711.5  | 7913.8  | 8434.5  | 8981.0  | 9394.1  | 9351.1  | 9213.4  | 9006.8  | 8851.9  | 8817.5  |
| 45°   | 8150.5  | 8464.6  | 8946.6  | 9648.0  | 9957.9  | 10065.5 | 9901.9  | 9549.1  | 9372.6  | 9351.1  |
| 47.5° | 8701.3  | 8950.9  | 9553.4  | 10181.6 | 10642.1 | 10659.3 | 10379.6 | 10052.5 | 9729.8  | 9798.6  |
| 50°   | 9191.9  | 9523.2  | 10134.3 | 10822.8 | 11373.7 | 11175.7 | 10818.5 | 10409.7 | 10177.3 | 10087.0 |
| 52.5° | 9716.9  | 10121.4 | 10831.4 | 11532.9 | 11838.4 | 11640.5 | 11059.5 | 10603.4 | 10250.5 | 10211.8 |
| 55°   | 10482.9 | 10693.7 | 11623.3 | 12161.2 | 12260.1 | 11842.7 | 10986.4 | 10340.9 | 9884.7  | 9772.8  |
| 57.5° | 11261.8 | 11507.1 | 12320.4 | 12785.1 | 12681.9 | 11730.8 | 10513.0 | 9514.6  | 8916.5  | 8757.2  |
| 60°   | 12049.3 | 12350.5 | 13034.7 | 13460.8 | 12927.2 | 10960.5 | 9174.7  | 7888.0  | 7190.8  | 7048.8  |
| 62.5° | 12927.2 | 13318.8 | 13929.8 | 14080.4 | 12199.9 | 9437.2  | 7281.2  | 5693.3  | 4987.5  | 4750.9  |
| 65°   | 13706.1 | 14106.3 | 14859.3 | 13951.3 | 10655.0 | 7040.2  | 4707.8  | 3253.3  | 2732.6  | 2543.3  |
| 67.5° | 14347.2 | 14799.1 | 15169.2 | 12346.2 | 7801.9  | 4122.6  | 2452.9  | 1712.7  | 1519.1  | 1450.2  |
| 70°   | 14855.0 | 15608.1 | 13878.2 | 9075.7  | 4458.2  | 2009.6  | 1325.4  | 1127.5  | 1101.6  | 1084.4  |
| 72.5° | 14411.8 | 14312.8 | 10362.4 | 5237.1  | 1953.7  | 1106.0  | 959.6   | 929.5   | 925.2   | 929.5   |
| 75°   | 11786.8 | 10513.0 | 6196.8  | 2276.5  | 981.2   | 800.4   | 796.1   | 783.2   | 804.7   | 804.7   |
| 77.5° | 5719.1  | 5000.5  | 2590.6  | 976.9   | 645.5   | 628.3   | 649.8   | 649.8   | 649.8   | 649.8   |
| 80°   | 1325.4  | 1467.4  | 925.2   | 593.9   | 469.1   | 469.1   | 516.4   | 520.7   | 499.2   | 490.6   |
| 82.5° | 451.8   | 602.5   | 507.8   | 374.4   | 309.8   | 348.6   | 391.6   | 400.2   | 331.4   | 335.7   |
| 85°   | 223.8   | 352.9   | 275.4   | 215.2   | 159.2   | 215.2   | 253.9   | 266.8   | 228.1   | 219.5   |
| 87.5° | 103.3   | 154.9   | 103.3   | 73.2    | 55.9    | 77.5    | 73.2    | 60.2    | 34.4    | 34.4    |
| 90°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |

(END OF REPORT)