

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: P484348

Luminaire Tested: **IFLD-L-SA8A-730-U-SL3-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P484348  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA8A-730-U-SL3-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens with House Side Shield  
Light Source: (128) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

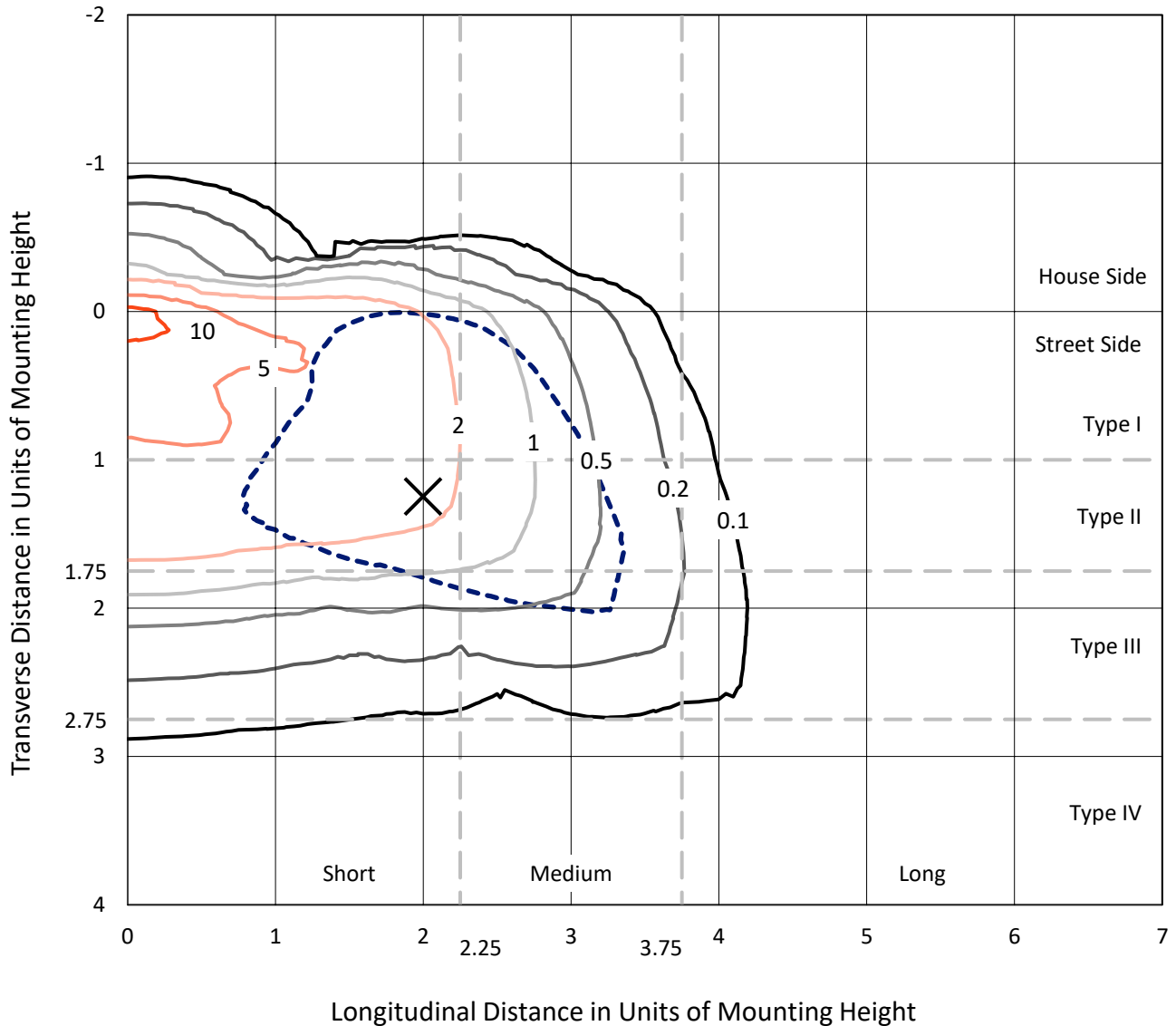
Lumens per Lamp: N/A  
Luminaire Lumens: 26087.2 lumens  
Efficiency: N/A  
Efficacy: 105.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G4

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

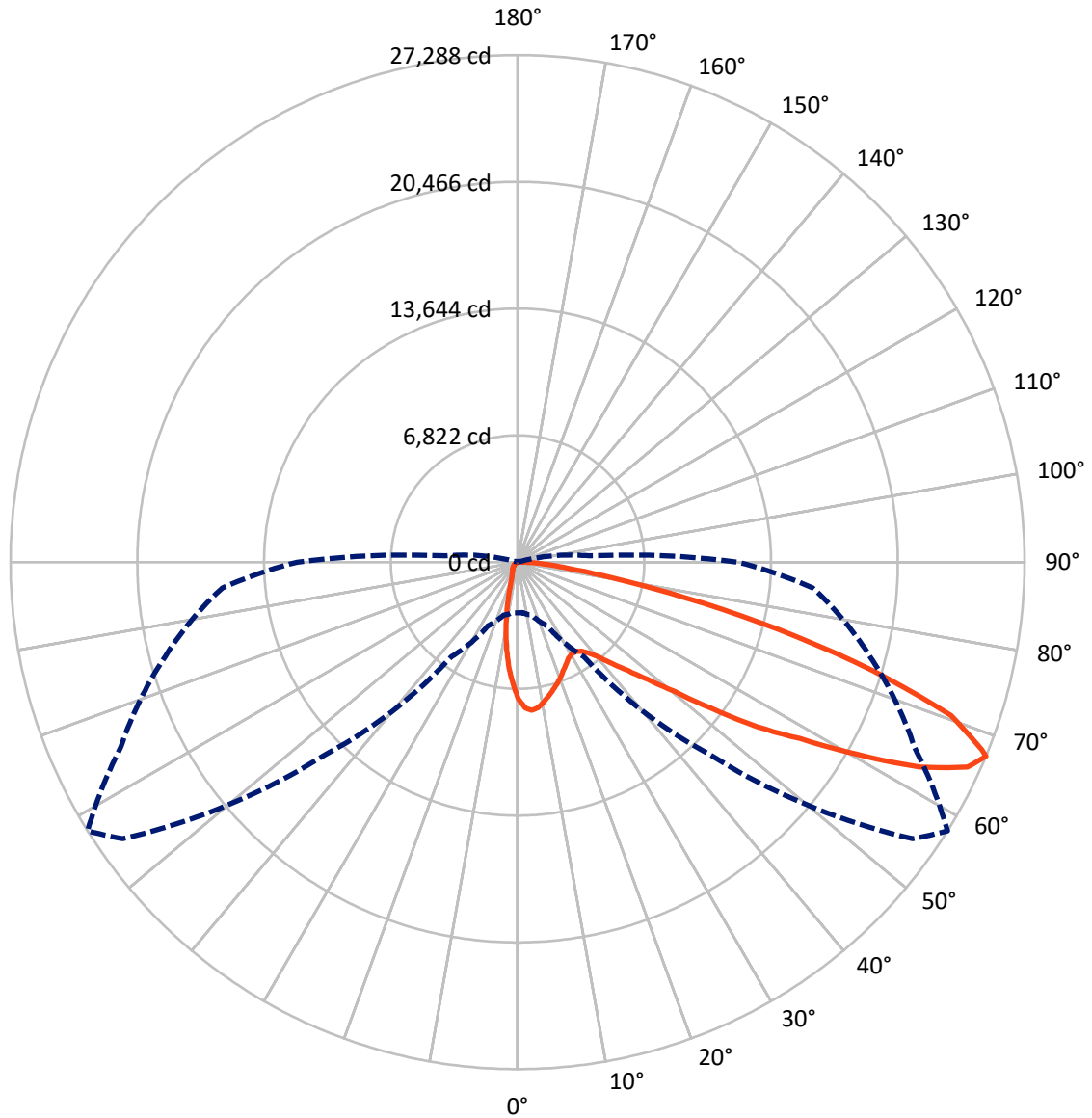
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.9 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    | 2156.3   | 0.0    | 2156.3  |
|                    | % Fixture | 8.3      | 0.0    | 8.3     |
| <b>Street Side</b> | Lumens    | 23930.9  | 0.0    | 23930.9 |
|                    | % Fixture | 91.7     | 0.0    | 91.7    |
| <b>Total</b>       | Lumens    | 26087.2  | 0.0    | 26087.2 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 586.4   | 2.2       |
| 10°-20°   | 1216.4  | 4.7       |
| 20°-30°   | 1613.9  | 6.2       |
| 30°-40°   | 2236.3  | 8.6       |
| 40°-50°   | 3649.0  | 14.0      |
| 50°-60°   | 6413.7  | 24.6      |
| 60°-70°   | 7103.7  | 27.2      |
| 70°-80°   | 2943.8  | 11.3      |
| 80°-90°   | 324.1   | 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°    | 26087.2 | 100.0     |
| 0°-180°   | 26087.2 | 100.0     |



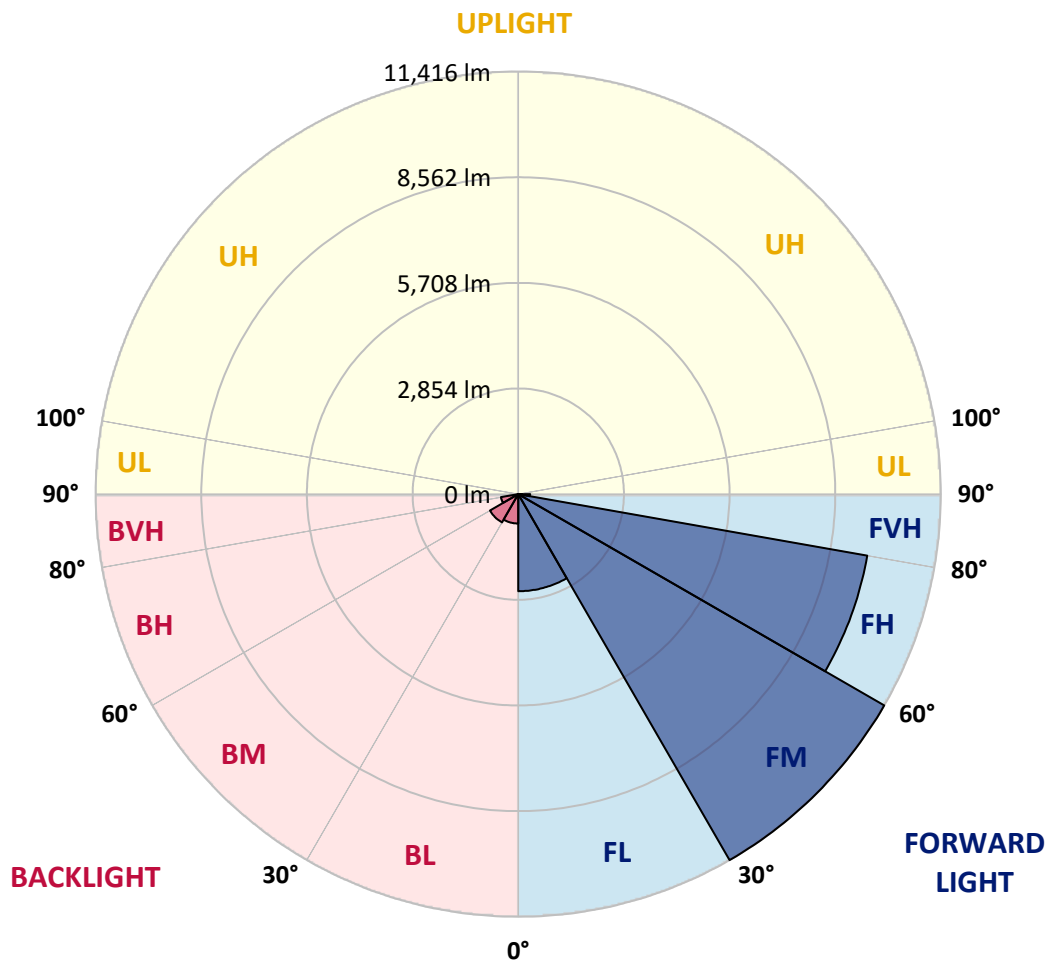
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|----------------|---------|-----------|-------------------------|------|----------|
|                |         |           | B                       | U    | G        |
| FL (0°-30°)    | 2622.5  | 10.1      |                         |      |          |
| FM (30°-60°)   | 11416.3 | 43.8      |                         |      |          |
| FH (60°-80°)   | 9573.4  | 36.7      |                         |      | G4/12000 |
| FVH (80°-90°)  | 318.7   | 1.2       |                         |      | G3/500   |
| BL (0°-30°)    | 794.2   | 3.0       | B2/1000                 |      |          |
| BM (30°-60°)   | 882.7   | 3.4       | B1/1000                 |      |          |
| BH (60°-80°)   | 474.1   | 1.8       | B1/500                  |      | G1/500   |
| BVH (80°-90°)  | 5.3     | 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 III Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 58°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 7390.9  | 7390.9  | 7390.9  | 7390.9  | 7390.9  | 7390.9  | 7390.9  | 7390.9  | 7390.9  | 7390.9  | 7390.9  |
| 2.5°  | 8042.0  | 8069.7  | 8093.9  | 8048.9  | 8087.0  | 8031.6  | 7889.6  | 7858.4  | 7834.2  | 7622.9  | 7501.7  |
| 5°    | 8038.5  | 8007.3  | 8031.6  | 8052.4  | 8000.4  | 8042.0  | 8007.3  | 8010.8  | 7917.3  | 7726.8  | 7387.4  |
| 7.5°  | 7501.7  | 7487.8  | 7501.7  | 7602.1  | 7716.4  | 7806.5  | 7858.4  | 7910.4  | 7848.0  | 7564.0  | 7235.0  |
| 10°   | 6777.8  | 6847.1  | 6885.2  | 7065.3  | 7241.9  | 7408.2  | 7570.9  | 7667.9  | 7650.6  | 7536.3  | 7068.8  |
| 12.5° | 6272.2  | 6251.4  | 6389.9  | 6507.7  | 6684.3  | 7020.3  | 7304.3  | 7394.3  | 7498.2  | 7338.9  | 6850.6  |
| 15°   | 5804.6  | 5749.2  | 5832.3  | 6036.7  | 6338.0  | 6604.7  | 7003.0  | 7138.0  | 7269.6  | 7311.2  | 6732.8  |
| 17.5° | 5357.8  | 5385.6  | 5472.1  | 5655.7  | 5939.7  | 6313.7  | 6687.8  | 6881.7  | 7196.9  | 7141.5  | 6556.2  |
| 20°   | 5143.1  | 5202.0  | 5233.2  | 5326.7  | 5524.1  | 5898.1  | 6455.7  | 6611.6  | 6947.5  | 7138.0  | 6383.0  |
| 22.5° | 5153.5  | 5153.5  | 5080.8  | 5136.2  | 5316.3  | 5607.2  | 6140.6  | 6313.7  | 6847.1  | 6957.9  | 6227.2  |
| 25°   | 5264.3  | 5195.1  | 5198.5  | 5132.7  | 5208.9  | 5368.2  | 5856.6  | 6067.8  | 6642.8  | 6975.2  | 6144.0  |
| 27.5° | 5347.5  | 5333.6  | 5312.8  | 5295.5  | 5198.5  | 5222.8  | 5669.6  | 5842.7  | 6563.1  | 6954.5  | 6015.9  |
| 30°   | 5648.8  | 5586.4  | 5565.6  | 5527.6  | 5399.4  | 5281.7  | 5520.6  | 5738.8  | 6500.8  | 7003.0  | 5943.2  |
| 32.5° | 5901.6  | 5912.0  | 5929.3  | 5818.5  | 5707.6  | 5416.7  | 5562.2  | 5735.4  | 6455.7  | 7113.8  | 6015.9  |
| 35°   | 6220.2  | 6265.3  | 6272.2  | 6237.5  | 6119.8  | 5832.3  | 5735.4  | 5884.3  | 6531.9  | 7311.2  | 6022.8  |
| 37.5° | 6705.1  | 6656.6  | 6788.2  | 6802.1  | 6719.0  | 6338.0  | 6137.1  | 6196.0  | 6757.1  | 7626.4  | 6286.0  |
| 40°   | 7020.3  | 7079.1  | 7325.0  | 7477.4  | 7335.4  | 6989.1  | 6719.0  | 6708.6  | 7082.6  | 8121.6  | 6611.6  |
| 42.5° | 7370.1  | 7501.7  | 7771.8  | 8100.8  | 8083.5  | 7761.4  | 7487.8  | 7442.8  | 7661.0  | 8838.5  | 7127.6  |
| 45°   | 7848.0  | 7965.8  | 8343.3  | 8838.5  | 9108.7  | 8835.1  | 8422.9  | 8332.9  | 8364.1  | 9815.2  | 8007.3  |
| 47.5° | 8641.1  | 8610.0  | 9153.7  | 9642.0  | 10085.4 | 9874.1  | 9697.5  | 9434.2  | 9410.0  | 10965.1 | 9223.0  |
| 50°   | 9538.1  | 9531.2  | 10016.1 | 10570.2 | 11082.8 | 11495.0 | 11200.6 | 10913.1 | 10920.0 | 12527.0 | 10653.4 |
| 52.5° | 10390.1 | 10525.2 | 11048.2 | 11598.9 | 12478.6 | 12921.9 | 13205.9 | 13091.6 | 12540.9 | 13922.8 | 12184.2 |
| 55°   | 10840.4 | 10958.1 | 11477.6 | 12426.6 | 13815.4 | 14954.9 | 15723.7 | 15626.8 | 14563.5 | 15495.2 | 13694.2 |
| 57.5° | 10414.4 | 10494.0 | 11197.1 | 12440.5 | 14750.5 | 17292.7 | 18030.4 | 17909.1 | 16655.4 | 16696.9 | 15519.4 |
| 60°   | 8630.7  | 8755.4  | 9801.4  | 11259.4 | 14386.9 | 19093.6 | 21206.3 | 21022.7 | 18560.2 | 18217.4 | 16693.5 |
| 62.5° | 5977.8  | 6060.9  | 6919.8  | 8734.6  | 12662.1 | 19720.5 | 24205.6 | 24306.0 | 20569.0 | 19401.8 | 17043.3 |
| 65°   | 3872.1  | 3865.1  | 4356.9  | 5586.4  | 8973.6  | 17822.5 | 25978.8 | 26602.2 | 22508.5 | 19581.9 | 16935.9 |
| 67°   | 2736.1  | 2725.7  | 2957.7  | 3788.9  | 6213.3  | 14684.7 | 25947.6 | 27288.0 | 23561.4 | 19633.9 | 15941.9 |
| 67.5° | 2524.8  | 2514.4  | 2736.1  | 3484.2  | 5607.2  | 13656.1 | 25559.7 | 26934.7 | 23931.9 | 19561.2 | 15505.5 |
| 70°   | 1960.3  | 1932.6  | 2015.7  | 2400.1  | 3266.0  | 8831.6  | 21874.7 | 24742.4 | 23163.1 | 17746.4 | 12381.6 |
| 72.5° | 1416.5  | 1447.7  | 1579.3  | 1970.7  | 2562.9  | 4751.8  | 16672.7 | 20007.9 | 19346.4 | 13375.6 | 7868.8  |
| 75°   | 987.1   | 1014.8  | 1226.0  | 1607.0  | 2351.6  | 2881.5  | 11273.3 | 14511.6 | 13476.0 | 7383.9  | 3352.6  |
| 77.5° | 516.0   | 550.7   | 782.7   | 1284.9  | 2136.9  | 2230.4  | 6736.3  | 9202.2  | 7141.5  | 2628.7  | 924.7   |
| 80°   | 239.0   | 256.3   | 391.4   | 910.9   | 1787.1  | 1960.3  | 3927.5  | 5118.9  | 2857.3  | 588.8   | 318.6   |
| 82.5° | 103.9   | 114.3   | 180.1   | 523.0   | 1267.6  | 1714.4  | 2431.3  | 2684.1  | 1035.6  | 190.5   | 197.4   |
| 85°   | 20.8    | 24.2    | 69.3    | 277.1   | 613.0   | 1039.0  | 1707.4  | 1593.2  | 519.5   | 93.5    | 155.9   |
| 87.5° | 0.0     | 0.0     | 17.3    | 79.7    | 166.2   | 308.2   | 723.8   | 723.8   | 159.3   | 48.5    | 58.9    |
| 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°    | 7390.9  | 7390.9 | 7390.9 | 7390.9 | 7390.9 | 7390.9 | 7390.9 | 7390.9 | 7390.9 | 7390.9 | 7390.9 |
| 2.5°  | 7394.3  | 7269.6 | 6996.0 | 6743.2 | 6563.1 | 6358.8 | 6088.6 | 5967.4 | 5922.4 | 5860.0 | 5766.5 |
| 5°    | 7200.4  | 7048.0 | 6580.4 | 6109.4 | 5593.4 | 5202.0 | 4786.4 | 4544.0 | 4360.4 | 4246.1 | 4208.0 |
| 7.5°  | 6926.8  | 6615.1 | 5984.7 | 5229.7 | 4561.3 | 3979.4 | 3349.1 | 2923.1 | 2649.5 | 2538.7 | 2434.8 |
| 10°   | 6708.6  | 6303.3 | 5344.0 | 4405.4 | 3515.3 | 2663.3 | 1953.3 | 1579.3 | 1295.3 | 1187.9 | 1174.1 |
| 12.5° | 6424.6  | 5939.7 | 4744.8 | 3563.8 | 2445.1 | 1586.2 | 1080.6 | 938.6  | 858.9  | 845.1  | 834.7  |
| 15°   | 6189.1  | 5610.7 | 4176.8 | 2760.3 | 1582.8 | 990.5  | 841.6  | 807.0  | 786.2  | 779.3  | 782.7  |
| 17.5° | 6029.7  | 5257.4 | 3595.0 | 2008.8 | 1042.5 | 810.4  | 775.8  | 755.0  | 744.6  | 741.2  | 730.8  |
| 20°   | 5714.6  | 4959.6 | 3020.1 | 1406.1 | 813.9  | 748.1  | 720.4  | 703.1  | 692.7  | 689.2  | 685.7  |
| 22.5° | 5534.5  | 4582.1 | 2445.1 | 980.1  | 723.8  | 678.8  | 658.0  | 644.2  | 626.9  | 616.5  | 613.0  |
| 25°   | 5354.4  | 4305.0 | 1932.6 | 761.9  | 658.0  | 626.9  | 595.7  | 578.4  | 550.7  | 536.8  | 533.4  |
| 27.5° | 5143.1  | 4031.4 | 1489.3 | 661.5  | 592.2  | 561.1  | 529.9  | 502.2  | 467.6  | 453.7  | 446.8  |
| 30°   | 5021.9  | 3764.7 | 1122.1 | 592.2  | 543.8  | 502.2  | 464.1  | 429.5  | 391.4  | 367.1  | 360.2  |
| 32.5° | 4959.6  | 3522.3 | 841.6  | 540.3  | 491.8  | 446.8  | 398.3  | 356.7  | 322.1  | 301.3  | 297.9  |
| 35°   | 4883.4  | 3286.7 | 661.5  | 491.8  | 443.3  | 394.8  | 346.3  | 304.8  | 270.1  | 252.8  | 245.9  |
| 37.5° | 4963.0  | 3148.2 | 550.7  | 453.7  | 405.2  | 349.8  | 297.9  | 256.3  | 228.6  | 211.3  | 207.8  |
| 40°   | 5181.2  | 3033.9 | 477.9  | 419.1  | 367.1  | 308.2  | 259.8  | 218.2  | 193.9  | 180.1  | 173.2  |
| 42.5° | 5517.2  | 3033.9 | 432.9  | 384.4  | 332.5  | 270.1  | 221.7  | 190.5  | 166.2  | 152.4  | 148.9  |
| 45°   | 6126.7  | 3127.4 | 394.8  | 349.8  | 290.9  | 232.0  | 190.5  | 159.3  | 135.1  | 121.2  | 117.8  |
| 47.5° | 6982.2  | 3342.2 | 363.7  | 318.6  | 259.8  | 204.3  | 166.2  | 135.1  | 110.8  | 97.0   | 93.5   |
| 50°   | 8132.0  | 3830.5 | 332.5  | 280.5  | 232.0  | 176.6  | 138.5  | 107.4  | 86.6   | 72.7   | 69.3   |
| 52.5° | 9565.9  | 4523.2 | 301.3  | 259.8  | 197.4  | 148.9  | 110.8  | 86.6   | 65.8   | 55.4   | 52.0   |
| 55°   | 11082.8 | 5371.7 | 263.2  | 232.0  | 169.7  | 124.7  | 90.0   | 65.8   | 48.5   | 41.6   | 38.1   |
| 57.5° | 12610.2 | 6026.3 | 232.0  | 200.9  | 138.5  | 100.4  | 72.7   | 52.0   | 34.6   | 27.7   | 24.2   |
| 60°   | 13420.6 | 6088.6 | 200.9  | 166.2  | 110.8  | 79.7   | 55.4   | 38.1   | 24.2   | 17.3   | 13.9   |
| 62.5° | 13545.3 | 5534.5 | 173.2  | 135.1  | 90.0   | 62.3   | 38.1   | 27.7   | 13.9   | 6.9    | 6.9    |
| 65°   | 12904.5 | 4613.2 | 148.9  | 107.4  | 69.3   | 45.0   | 27.7   | 17.3   | 6.9    | 3.5    | 0.0    |
| 67°   | 11865.5 | 3865.1 | 128.1  | 90.0   | 55.4   | 34.6   | 20.8   | 10.4   | 3.5    | 0.0    | 0.0    |
| 67.5° | 11463.8 | 3657.3 | 121.2  | 83.1   | 52.0   | 31.2   | 17.3   | 10.4   | 3.5    | 0.0    | 0.0    |
| 70°   | 8897.4  | 2611.4 | 90.0   | 58.9   | 38.1   | 24.2   | 13.9   | 6.9    | 0.0    | 0.0    | 0.0    |
| 72.5° | 5451.4  | 1527.4 | 69.3   | 41.6   | 27.7   | 17.3   | 10.4   | 3.5    | 0.0    | 0.0    | 0.0    |
| 75°   | 2285.8  | 526.4  | 58.9   | 31.2   | 20.8   | 10.4   | 6.9    | 3.5    | 0.0    | 0.0    | 0.0    |
| 77.5° | 595.7   | 197.4  | 41.6   | 20.8   | 13.9   | 10.4   | 6.9    | 3.5    | 0.0    | 0.0    | 0.0    |
| 80°   | 242.4   | 90.0   | 27.7   | 13.9   | 13.9   | 10.4   | 6.9    | 3.5    | 0.0    | 0.0    | 0.0    |
| 82.5° | 159.3   | 41.6   | 17.3   | 13.9   | 10.4   | 6.9    | 3.5    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 121.2   | 24.2   | 10.4   | 10.4   | 6.9    | 3.5    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 52.0    | 13.9   | 10.4   | 6.9    | 6.9    | 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)