

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: P841627

Luminaire Tested: **ARCH4-200-750-U-T3**

Issue Date: 5/27/2024

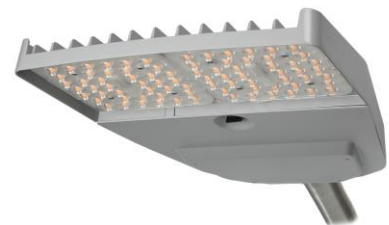
### Test Information

Test Method: LM-79-08  
Report Number: P841627  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2310-189-18)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ARCH4-200-750-U-T3  
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 5000K, 800mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 32890 lumens  
Efficiency: N/A  
Efficacy: 161.5 lumens/watt  
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G4

Input Watts (W): 203.7  
Input Voltage (V): NR  
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



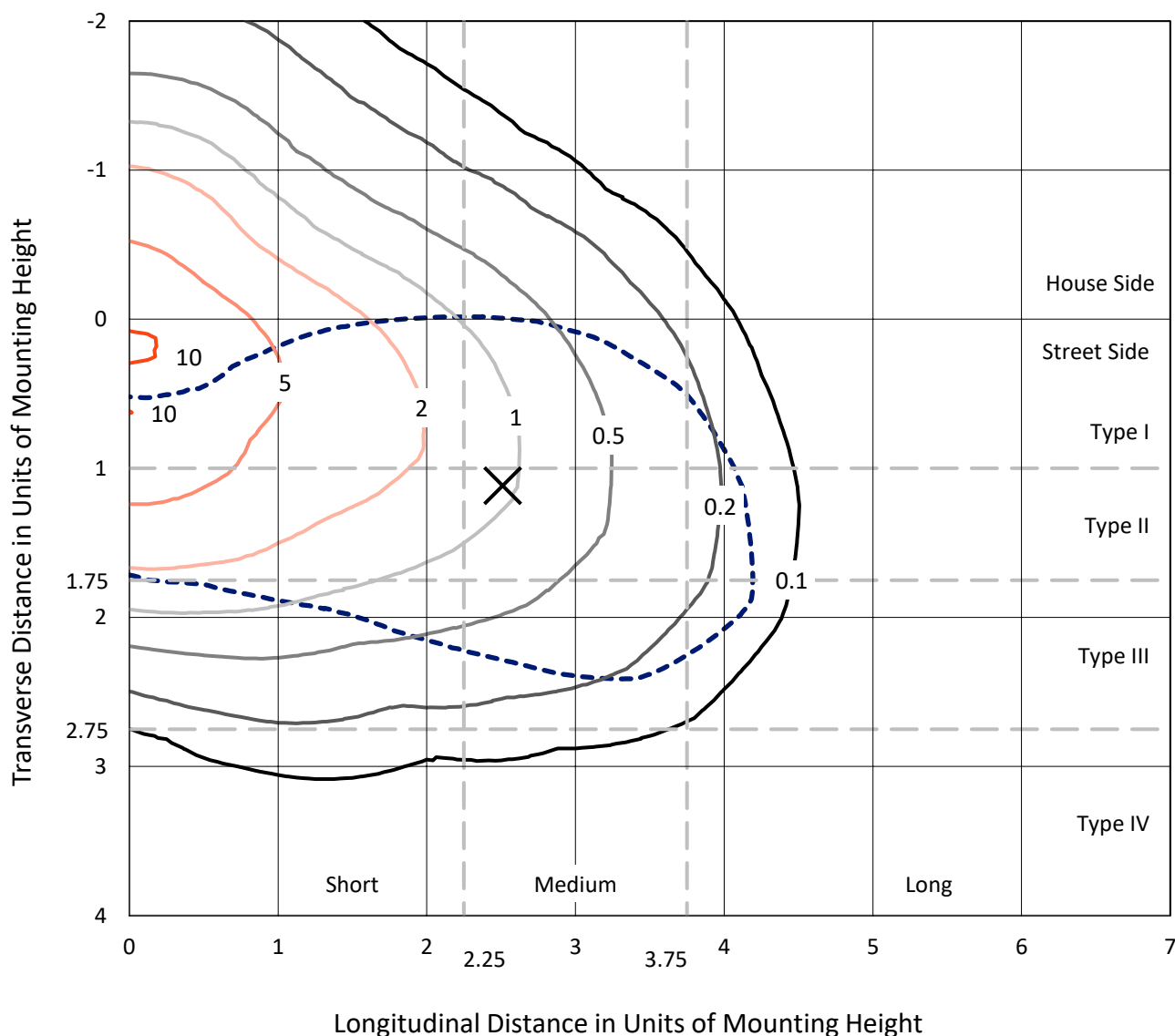
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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

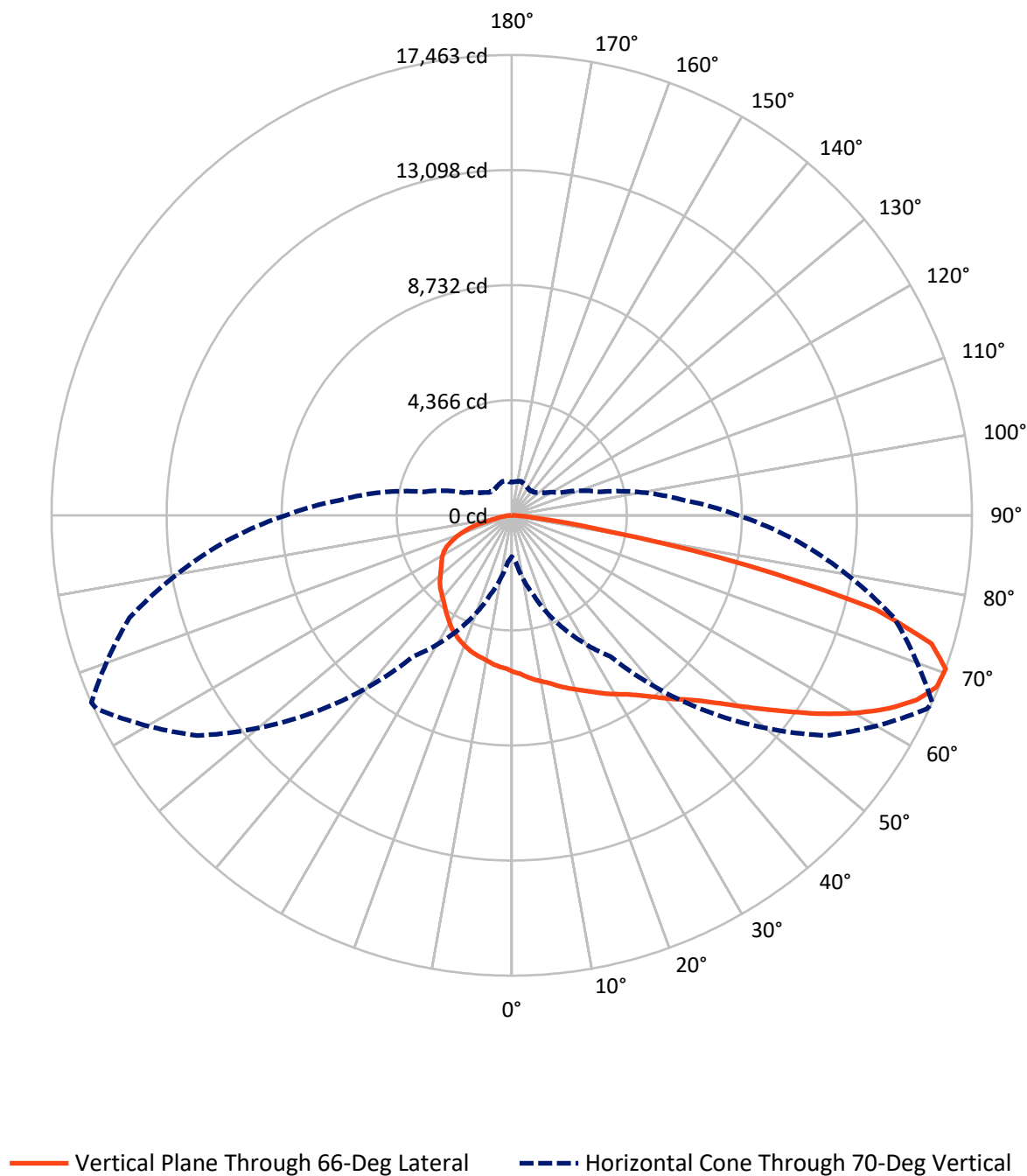
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.3 fc  
Type III - Medium - N/A

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## Luminous Intensity Polar Plot



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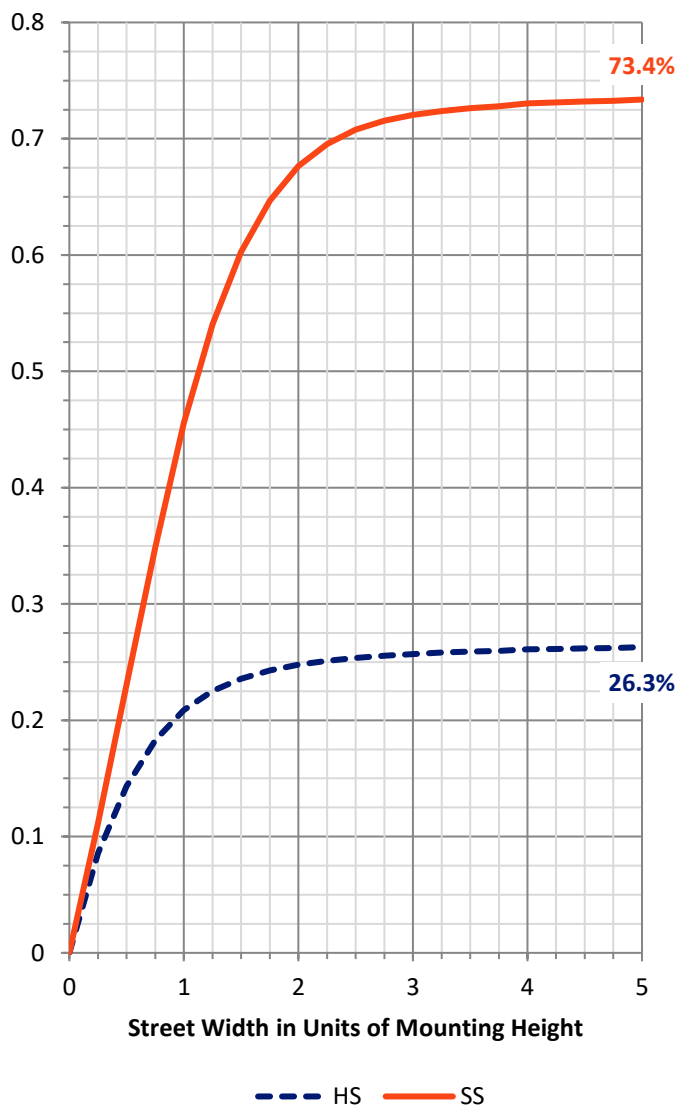
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 8715.1   | 0.0    | 8715.1  |
|                    | % Fixture | 26.5     | 0.0    | 26.5    |
| <b>Street Side</b> | Lumens    | 24174.9  | 0.0    | 24174.9 |
|                    | % Fixture | 73.5     | 0.0    | 73.5    |
| <b>Total</b>       | Lumens    | 32890.0  | 0.0    | 32890.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 570.4   | 1.7       |
| 10°-20°   | 1710.9  | 5.2       |
| 20°-30°   | 2868.1  | 8.7       |
| 30°-40°   | 4294.5  | 13.1      |
| 40°-50°   | 5741.7  | 17.5      |
| 50°-60°   | 6703.6  | 20.4      |
| 60°-70°   | 6665.7  | 20.3      |
| 70°-80°   | 3946.2  | 12.0      |
| 80°-90°   | 388.9   | 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°    | 32890.0 | 100.0     |
| 0°-180°   | 32890.0 | 100.0     |

**Coefficient of Utilization**



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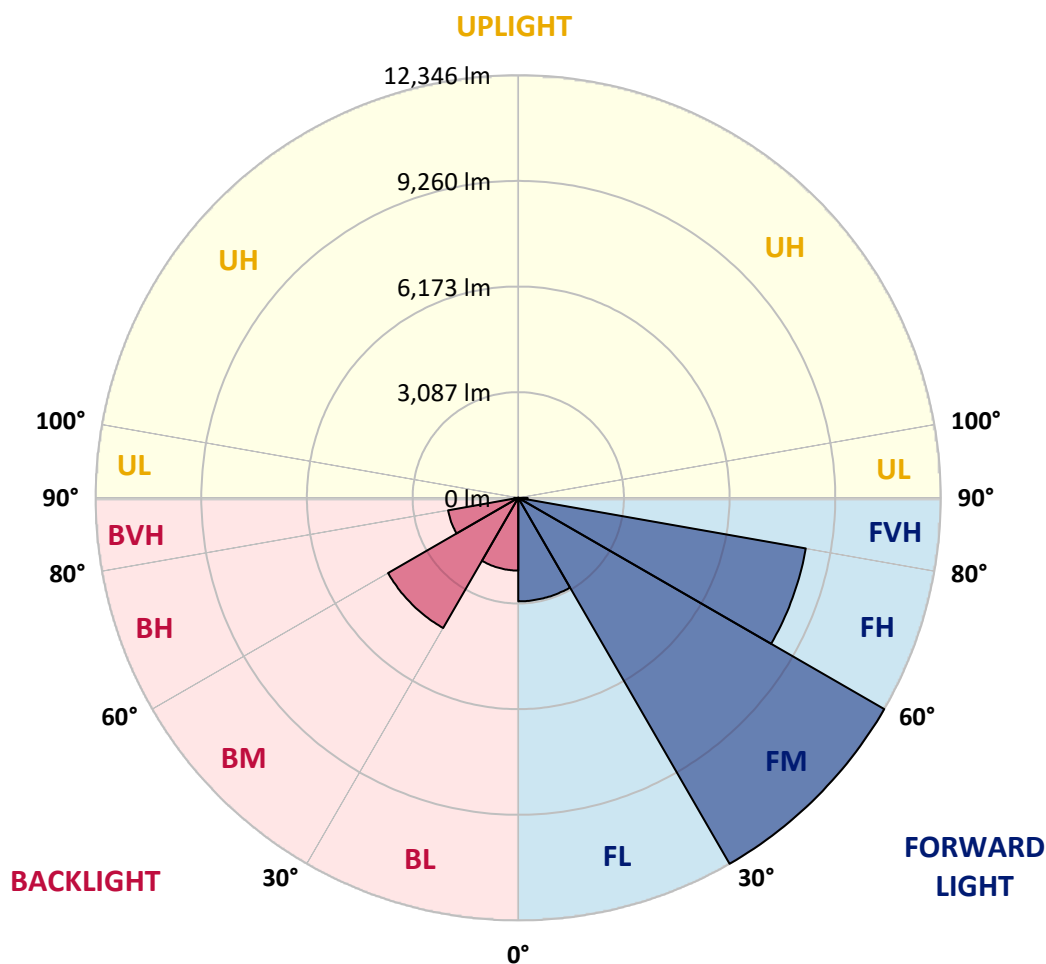
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|------|-------------|---------|-----------|-------------------------|------|----------|
|      |             |         |           | B                       | U    | G        |
| FL   | (0°-30°)    | 3025.0  | 9.2       |                         |      |          |
| FM   | (30°-60°)   | 12346.5 | 37.5      |                         |      |          |
| FH   | (60°-80°)   | 8530.1  | 25.9      |                         |      | G4/12000 |
| FVH  | (80°-90°)   | 273.3   | 0.8       |                         |      | G3/500   |
| BL   | (0°-30°)    | 2124.4  | 6.5       | B3/2500                 |      |          |
| BM   | (30°-60°)   | 4393.3  | 13.4      | B3/5000                 |      |          |
| BH   | (60°-80°)   | 2081.8  | 6.3       | B3/2500                 |      | G3/2500  |
| BVH  | (80°-90°)   | 115.6   | 0.4       |                         |      | G2/225   |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |          |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |          |

**BUG Rating: B3-U0-G4**

Type III Medium



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 66°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 5935.9  | 5935.9  | 5935.9  | 5935.9  | 5935.9  | 5935.9  | 5935.9  | 5935.9  | 5935.9  | 5935.9  | 5935.9  |
| 2.5°  | 6154.1  | 6144.4  | 6139.6  | 6120.2  | 6076.5  | 6095.9  | 6052.3  | 6023.2  | 6018.3  | 5950.4  | 5911.6  |
| 5°    | 6406.3  | 6401.5  | 6391.8  | 6362.7  | 6294.8  | 6304.5  | 6231.7  | 6178.4  | 6163.8  | 6057.1  | 5974.7  |
| 7.5°  | 6619.7  | 6610.0  | 6605.1  | 6566.3  | 6493.6  | 6488.7  | 6401.5  | 6323.9  | 6299.6  | 6154.1  | 6028.0  |
| 10°   | 6784.6  | 6770.0  | 6779.7  | 6740.9  | 6663.3  | 6648.8  | 6537.2  | 6435.4  | 6411.2  | 6226.9  | 6052.3  |
| 12.5° | 6925.2  | 6915.5  | 6930.1  | 6896.1  | 6833.1  | 6818.5  | 6707.0  | 6576.0  | 6546.9  | 6333.6  | 6105.6  |
| 15°   | 7080.4  | 7046.5  | 7075.5  | 7061.0  | 7017.4  | 7012.5  | 6910.7  | 6765.2  | 6726.4  | 6469.4  | 6188.1  |
| 17.5° | 7162.8  | 7143.4  | 7177.4  | 7182.2  | 7162.8  | 7196.8  | 7099.8  | 6925.2  | 6891.3  | 6595.4  | 6260.8  |
| 20°   | 7221.0  | 7191.9  | 7230.7  | 7259.8  | 7274.4  | 7342.3  | 7264.7  | 7094.9  | 7056.2  | 6716.7  | 6328.7  |
| 22.5° | 7419.9  | 7356.8  | 7361.7  | 7381.1  | 7390.8  | 7487.8  | 7439.3  | 7274.4  | 7235.6  | 6867.0  | 6411.2  |
| 25°   | 7919.4  | 7793.3  | 7710.8  | 7652.7  | 7584.8  | 7667.2  | 7638.1  | 7478.1  | 7444.1  | 7046.5  | 6513.0  |
| 27.5° | 8695.3  | 8535.3  | 8370.4  | 8200.7  | 7933.9  | 7900.0  | 7851.5  | 7706.0  | 7667.2  | 7225.9  | 6614.8  |
| 30°   | 9577.9  | 9417.9  | 9223.9  | 8952.3  | 8452.8  | 8191.0  | 8079.4  | 7919.4  | 7875.7  | 7385.9  | 6711.8  |
| 32.5° | 10455.7 | 10315.1 | 10121.1 | 9791.3  | 9078.4  | 8545.0  | 8307.3  | 8142.5  | 8098.8  | 7560.5  | 6828.2  |
| 35°   | 11139.5 | 11052.2 | 10926.1 | 10513.9 | 9699.2  | 8962.0  | 8637.1  | 8438.3  | 8389.8  | 7836.9  | 7041.6  |
| 37.5° | 11692.4 | 11629.3 | 11522.6 | 11091.0 | 10150.2 | 9379.1  | 9015.4  | 8787.5  | 8734.1  | 8137.6  | 7269.5  |
| 40°   | 12507.1 | 12342.2 | 12254.9 | 11629.3 | 10543.0 | 9757.4  | 9442.1  | 9204.5  | 9146.3  | 8457.7  | 7453.8  |
| 42.5° | 13200.6 | 13079.3 | 12972.6 | 12109.4 | 10916.4 | 10082.3 | 9844.7  | 9626.4  | 9548.8  | 8772.9  | 7652.7  |
| 45°   | 13317.0 | 13365.5 | 13312.1 | 12347.1 | 11508.1 | 10402.4 | 10252.0 | 10111.4 | 10038.6 | 9199.7  | 7953.3  |
| 47.5° | 13321.8 | 13321.8 | 13006.6 | 12482.8 | 12240.4 | 10761.2 | 10688.5 | 10737.0 | 10659.4 | 9742.8  | 8312.2  |
| 50°   | 12972.6 | 13035.7 | 12870.8 | 12516.8 | 12434.3 | 11120.1 | 11221.9 | 11483.8 | 11406.2 | 10319.9 | 8700.2  |
| 52.5° | 12250.1 | 12458.6 | 12453.7 | 12463.4 | 12153.1 | 11425.6 | 11784.5 | 12381.0 | 12250.1 | 10969.8 | 9112.4  |
| 55°   | 10974.6 | 11391.7 | 11765.1 | 12085.2 | 11910.6 | 11609.9 | 12473.1 | 13336.4 | 13200.6 | 11697.2 | 9529.4  |
| 57.5° | 9883.5  | 10150.2 | 10615.7 | 11522.6 | 11624.5 | 11770.0 | 13118.1 | 14335.4 | 14214.1 | 12502.2 | 9965.9  |
| 60°   | 8637.1  | 9005.7  | 9471.2  | 10761.2 | 11275.3 | 11978.5 | 13826.2 | 15310.2 | 15193.8 | 13317.0 | 10387.8 |
| 62.5° | 6721.5  | 7196.8  | 8127.9  | 9592.5  | 10766.1 | 12109.4 | 14383.9 | 16168.5 | 16115.2 | 14088.1 | 10766.1 |
| 65°   | 4684.7  | 5106.6  | 6411.2  | 8157.0  | 9956.2  | 12051.2 | 14830.0 | 16934.8 | 16886.3 | 14718.5 | 11032.8 |
| 67.5° | 2735.2  | 3225.0  | 4699.3  | 6566.3  | 8525.6  | 11648.7 | 14975.5 | 17385.8 | 17385.8 | 15101.6 | 11105.6 |
| 70°   | 1561.6  | 1789.5  | 3098.9  | 4786.5  | 6537.2  | 10538.2 | 14568.2 | 17380.9 | 17463.4 | 15014.3 | 10804.9 |
| 72.5° | 1091.2  | 1193.0  | 2085.3  | 3220.1  | 4432.5  | 8525.6  | 13501.3 | 16541.9 | 16653.5 | 14189.9 | 9776.8  |
| 75°   | 848.7   | 921.4   | 1469.4  | 2196.9  | 2793.4  | 5790.4  | 11168.6 | 13947.4 | 14243.2 | 12094.9 | 7904.8  |
| 77.5° | 645.0   | 698.3   | 858.4   | 1372.4  | 1789.5  | 3326.8  | 7371.4  | 9146.3  | 9165.7  | 7405.3  | 4238.5  |
| 80°   | 470.4   | 523.8   | 572.3   | 839.0   | 950.5   | 1556.7  | 2783.7  | 3821.5  | 3714.8  | 3583.8  | 2293.9  |
| 82.5° | 281.3   | 334.6   | 349.2   | 455.9   | 465.6   | 664.4   | 974.8   | 1231.8  | 1183.3  | 1576.1  | 1076.6  |
| 85°   | 121.2   | 169.7   | 179.4   | 208.5   | 198.8   | 271.6   | 388.0   | 324.9   | 291.0   | 334.6   | 232.8   |
| 87.5° | 29.1    | 48.5    | 48.5    | 53.3    | 43.6    | 67.9    | 72.7    | 53.3    | 48.5    | 58.2    | 58.2    |
| 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°    | 5935.9 | 5935.9 | 5935.9 | 5935.9 | 5935.9 | 5935.9 | 5935.9 | 5935.9 | 5935.9 | 5935.9 | 5935.9 |
| 2.5°  | 5901.9 | 5887.4 | 5892.2 | 5809.8 | 5785.6 | 5761.3 | 5746.8 | 5737.1 | 5727.4 | 5741.9 | 5756.5 |
| 5°    | 5945.6 | 5911.6 | 5872.9 | 5751.6 | 5703.1 | 5649.8 | 5611.0 | 5577.0 | 5562.5 | 5562.5 | 5577.0 |
| 7.5°  | 5979.5 | 5921.3 | 5838.9 | 5678.9 | 5591.6 | 5518.8 | 5455.8 | 5412.1 | 5387.9 | 5387.9 | 5402.4 |
| 10°   | 5984.4 | 5901.9 | 5771.0 | 5577.0 | 5460.6 | 5353.9 | 5281.2 | 5232.7 | 5198.8 | 5198.8 | 5208.5 |
| 12.5° | 6013.5 | 5901.9 | 5732.2 | 5499.4 | 5353.9 | 5223.0 | 5135.7 | 5063.0 | 5048.4 | 5048.4 | 5058.1 |
| 15°   | 6062.0 | 5926.2 | 5708.0 | 5431.5 | 5257.0 | 5106.6 | 5009.6 | 4932.0 | 4902.9 | 4922.3 | 4927.2 |
| 17.5° | 6105.6 | 5940.7 | 5664.3 | 5344.2 | 5135.7 | 4970.8 | 4864.1 | 4796.2 | 4757.4 | 4801.1 | 4801.1 |
| 20°   | 6134.7 | 5940.7 | 5601.3 | 5232.7 | 5004.8 | 4820.5 | 4718.6 | 4636.2 | 4607.1 | 4660.5 | 4665.3 |
| 22.5° | 6178.4 | 5935.9 | 5533.4 | 5121.2 | 4864.1 | 4670.2 | 4568.3 | 4505.3 | 4490.7 | 4548.9 | 4568.3 |
| 25°   | 6226.9 | 5945.6 | 5460.6 | 4995.1 | 4709.0 | 4519.8 | 4442.2 | 4413.1 | 4422.8 | 4495.6 | 4519.8 |
| 27.5° | 6280.2 | 5965.0 | 5387.9 | 4854.4 | 4539.2 | 4369.5 | 4325.8 | 4340.4 | 4379.2 | 4471.3 | 4500.4 |
| 30°   | 6328.7 | 5969.8 | 5286.1 | 4689.6 | 4345.2 | 4185.2 | 4204.6 | 4267.6 | 4325.8 | 4418.0 | 4451.9 |
| 32.5° | 6391.8 | 5974.7 | 5179.4 | 4510.1 | 4136.7 | 4020.3 | 4107.6 | 4209.4 | 4267.6 | 4354.9 | 4393.7 |
| 35°   | 6546.9 | 6057.1 | 5096.9 | 4335.5 | 3942.7 | 3879.7 | 4025.2 | 4156.1 | 4190.0 | 4267.6 | 4301.6 |
| 37.5° | 6726.4 | 6192.9 | 5053.3 | 4156.1 | 3753.6 | 3739.0 | 3923.3 | 4054.3 | 4064.0 | 4112.5 | 4146.4 |
| 40°   | 6837.9 | 6251.1 | 5004.8 | 4005.8 | 3583.8 | 3593.5 | 3782.7 | 3884.5 | 3865.1 | 3899.1 | 3923.3 |
| 42.5° | 6949.5 | 6270.5 | 4902.9 | 3879.7 | 3423.8 | 3433.5 | 3579.0 | 3651.7 | 3661.4 | 3734.2 | 3768.1 |
| 45°   | 7138.6 | 6323.9 | 4791.4 | 3763.3 | 3278.3 | 3244.4 | 3331.7 | 3428.7 | 3554.7 | 3695.4 | 3734.2 |
| 47.5° | 7390.8 | 6435.4 | 4675.0 | 3622.6 | 3137.7 | 3026.1 | 3060.1 | 3229.8 | 3360.8 | 3491.7 | 3516.0 |
| 50°   | 7647.8 | 6546.9 | 4568.3 | 3452.9 | 2997.0 | 2793.4 | 2807.9 | 2963.1 | 3069.8 | 3171.6 | 3186.2 |
| 52.5° | 7900.0 | 6643.9 | 4476.2 | 3292.9 | 2837.0 | 2516.9 | 2575.1 | 2735.2 | 2807.9 | 2856.4 | 2871.0 |
| 55°   | 8152.2 | 6726.4 | 4393.7 | 3157.1 | 2652.7 | 2298.7 | 2352.1 | 2502.4 | 2575.1 | 2599.4 | 2609.1 |
| 57.5° | 8414.0 | 6823.4 | 4330.7 | 3040.7 | 2444.2 | 2104.7 | 2138.7 | 2245.4 | 2313.3 | 2342.4 | 2332.7 |
| 60°   | 8632.3 | 6905.8 | 4296.7 | 2919.5 | 2235.7 | 1925.3 | 1915.6 | 2012.6 | 2109.6 | 2138.7 | 2129.0 |
| 62.5° | 8802.0 | 6959.2 | 4243.4 | 2764.3 | 2051.4 | 1745.9 | 1697.4 | 1823.4 | 1925.3 | 1944.7 | 1959.2 |
| 65°   | 8894.1 | 6964.0 | 4112.5 | 2565.4 | 1862.2 | 1551.9 | 1517.9 | 1644.0 | 1707.1 | 1726.5 | 1726.5 |
| 67.5° | 8879.6 | 6886.4 | 3855.4 | 2298.7 | 1687.7 | 1377.3 | 1348.2 | 1425.8 | 1517.9 | 1532.5 | 1517.9 |
| 70°   | 8578.9 | 6566.3 | 3443.2 | 2017.4 | 1479.1 | 1222.1 | 1168.8 | 1246.3 | 1333.6 | 1280.3 | 1256.0 |
| 72.5° | 7725.4 | 5737.1 | 2837.0 | 1707.1 | 1246.3 | 1028.1 | 1003.9 | 1081.5 | 1086.3 | 1096.0 | 1071.8 |
| 75°   | 6095.9 | 4272.5 | 2124.1 | 1328.8 | 1008.7 | 863.2  | 858.4  | 843.8  | 863.2  | 902.0  | 872.9  |
| 77.5° | 3200.7 | 2133.8 | 1149.4 | 814.7  | 732.3  | 693.5  | 659.5  | 654.7  | 712.9  | 737.1  | 708.0  |
| 80°   | 1736.2 | 1197.8 | 659.5  | 489.8  | 446.2  | 451.0  | 494.7  | 485.0  | 548.0  | 562.6  | 538.3  |
| 82.5° | 756.5  | 567.4  | 324.9  | 295.8  | 295.8  | 291.0  | 305.5  | 339.5  | 407.4  | 407.4  | 324.9  |
| 85°   | 164.9  | 140.6  | 126.1  | 145.5  | 164.9  | 164.9  | 164.9  | 164.9  | 116.4  | 63.0   | 43.6   |
| 87.5° | 53.3   | 53.3   | 53.3   | 58.2   | 63.0   | 63.0   | 53.3   | 38.8   | 24.2   | 4.8    | 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)