

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: P836060

Luminaire Tested: **ARCH3-130-740-U-T4W-HSS**

Issue Date: 5/16/2024

### Test Information

Test Method: LM-79-08  
Report Number: P836060  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-27)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/16/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ARCH3-130-740-U-T4W-HSS  
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 4000K, 1035mA LIGHTSQUARE WITH 40 LEDS AND TYPE IV WIDE  
OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 13867 lumens  
Efficiency: N/A  
Efficacy: 104.6 lumens/watt  
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2

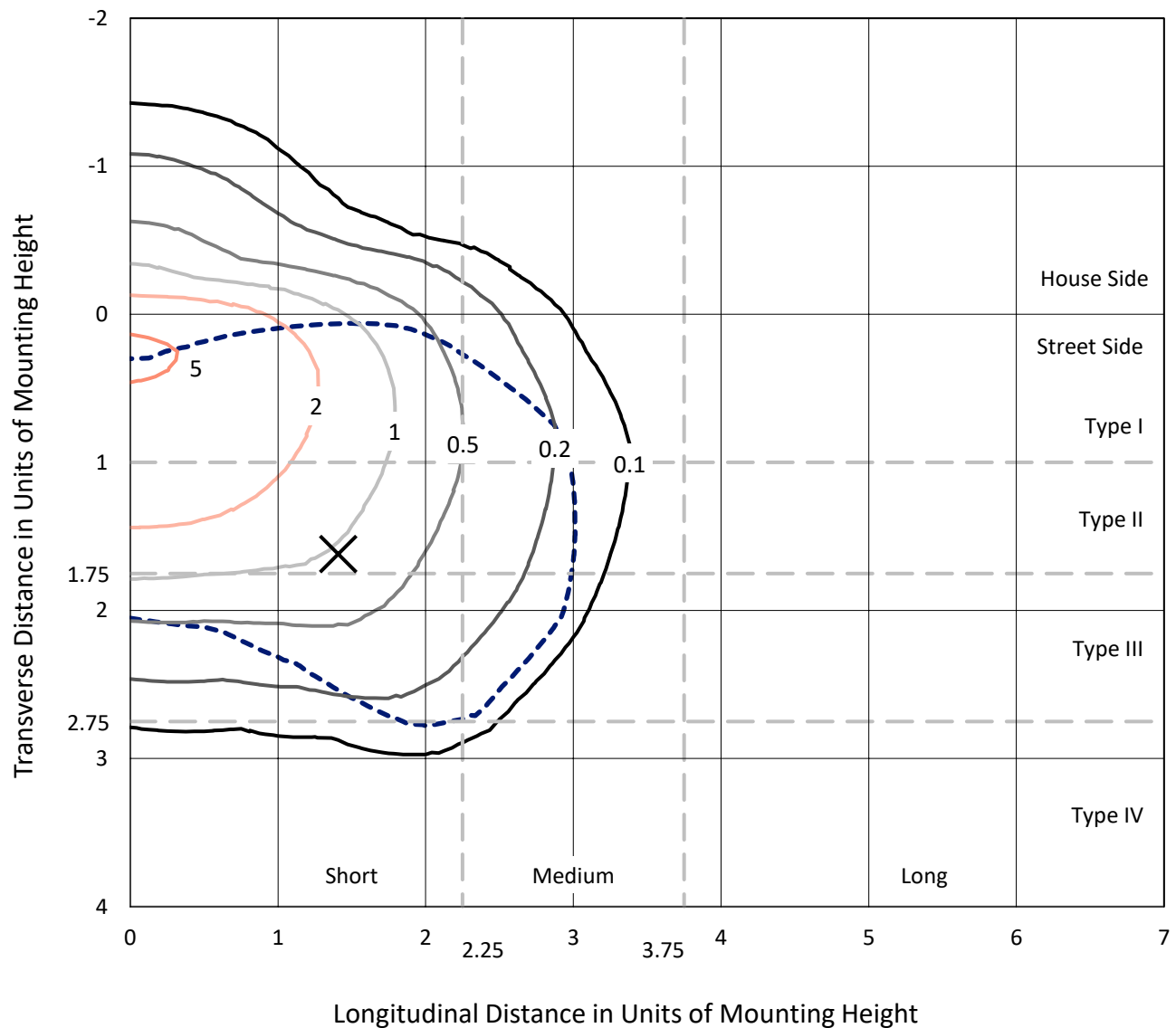
Input Watts (W): 132.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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## Iso-Footcandle Lines of Horizontal Illumination

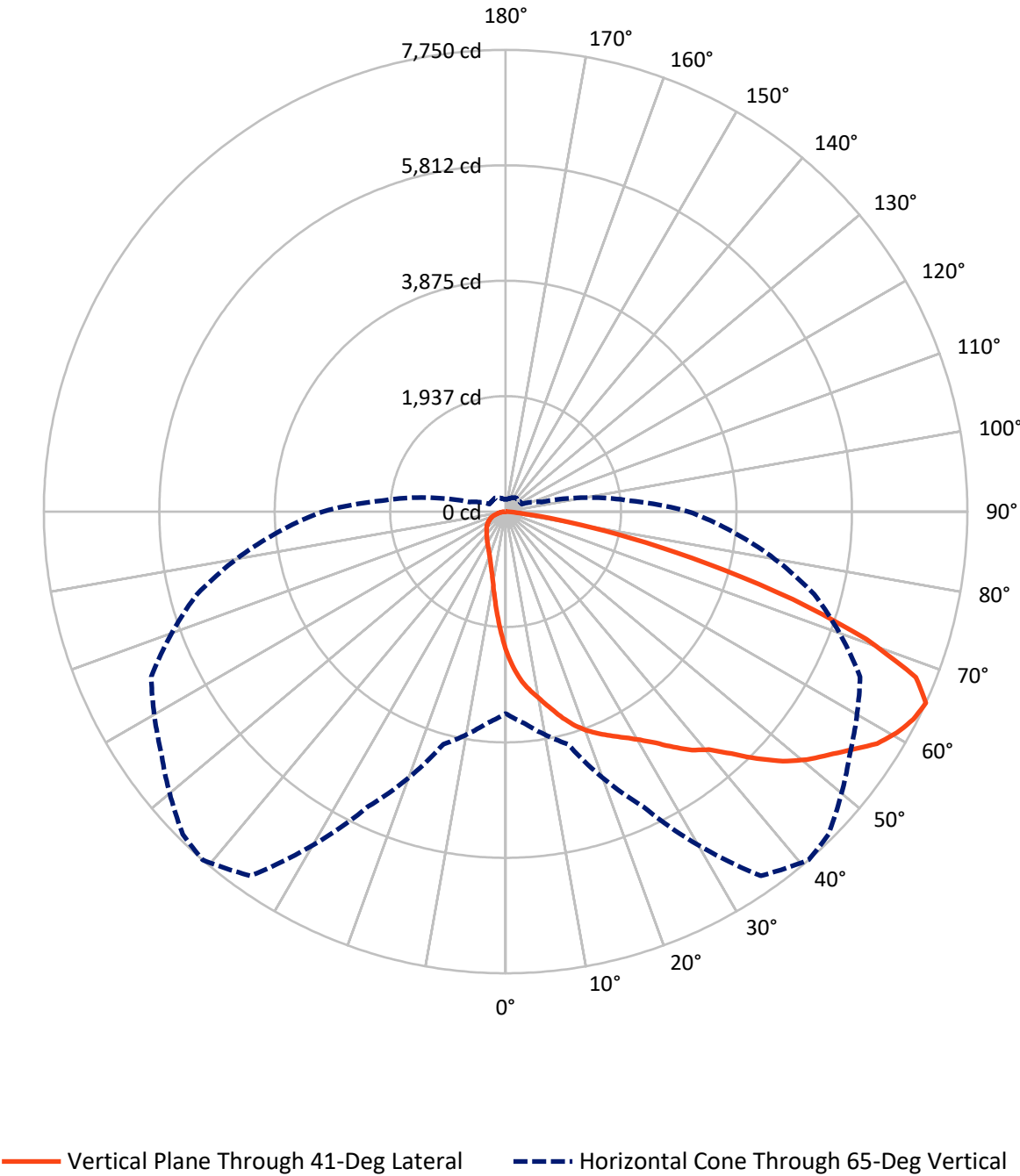
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 fc  
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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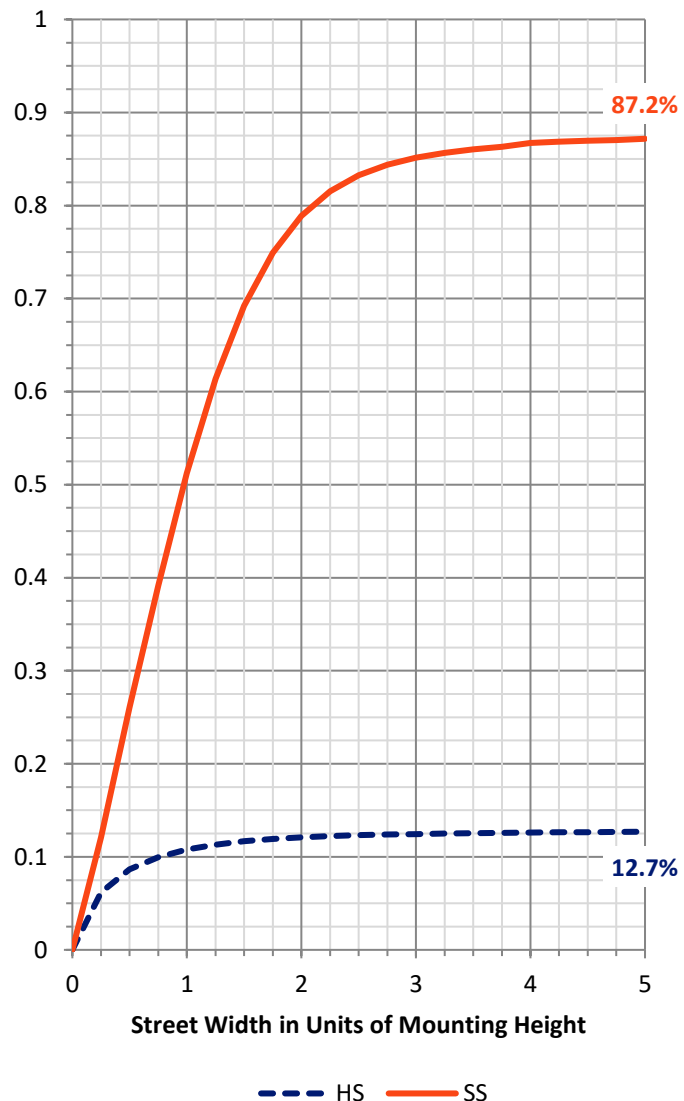
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 1780.3   | 0.0    | 1780.3  |
|                    | % Fixture | 12.8     | 0.0    | 12.8    |
| <b>Street Side</b> | Lumens    | 12086.7  | 0.0    | 12086.7 |
|                    | % Fixture | 87.2     | 0.0    | 87.2    |
| <b>Total</b>       | Lumens    | 13867.0  | 0.0    | 13867.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 220.2   | 1.6       |
| 10°-20°   | 660.2   | 4.8       |
| 20°-30°   | 1135.7  | 8.2       |
| 30°-40°   | 1722.5  | 12.4      |
| 40°-50°   | 2523.5  | 18.2      |
| 50°-60°   | 3186.6  | 23.0      |
| 60°-70°   | 2988.0  | 21.5      |
| 70°-80°   | 1331.8  | 9.6       |
| 80°-90°   | 98.7    | 0.7       |
| 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°    | 13867.0 | 100.0     |
| 0°-180°   | 13867.0 | 100.0     |

**Coefficient of Utilization**



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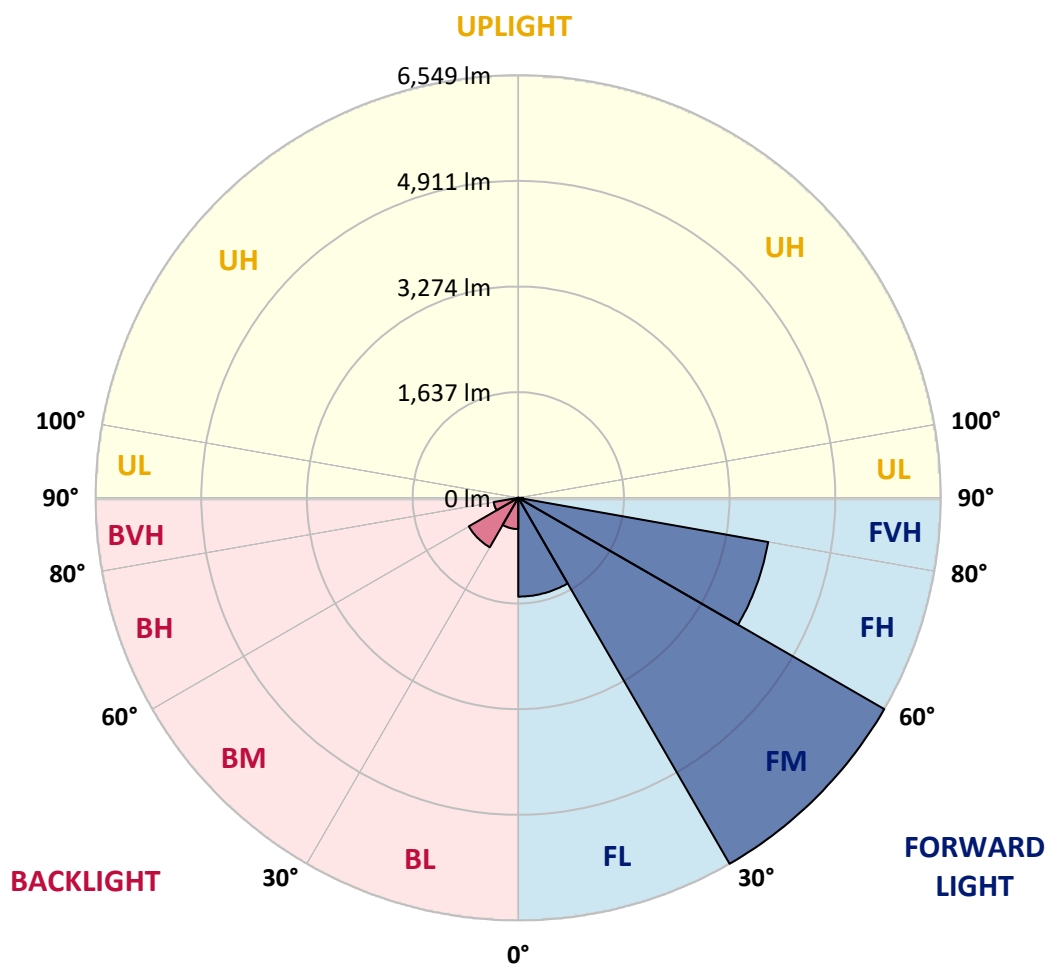
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 1531.4 | 11.0      |                         |      |         |
| FM   | (30°-60°)   | 6548.5 | 47.2      |                         |      |         |
| FH   | (60°-80°)   | 3933.0 | 28.4      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 73.7   | 0.5       |                         |      | G1/100  |
| BL   | (0°-30°)    | 484.6  | 3.5       | B1/500                  |      |         |
| BM   | (30°-60°)   | 884.0  | 6.4       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 386.7  | 2.8       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 25.0   | 0.2       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B1-U0-G2**

Type III Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 41°    | 45°    | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2362.9 | 2362.9 | 2362.9 | 2362.9 | 2362.9 | 2362.9 | 2362.9 | 2362.9 | 2362.9 | 2362.9 | 2362.9 |
| 2.5°  | 2725.5 | 2716.7 | 2710.9 | 2678.7 | 2678.7 | 2634.8 | 2637.8 | 2596.8 | 2547.1 | 2468.1 | 2383.3 |
| 5°    | 2982.8 | 2971.1 | 2956.5 | 2924.3 | 2912.6 | 2868.8 | 2862.9 | 2804.4 | 2719.6 | 2582.2 | 2430.1 |
| 7.5°  | 3208.0 | 3196.3 | 3175.8 | 3129.0 | 3096.9 | 3044.2 | 3029.6 | 2953.6 | 2860.0 | 2690.4 | 2476.9 |
| 10°   | 3412.7 | 3403.9 | 3377.6 | 3319.1 | 3275.3 | 3210.9 | 3184.6 | 3082.3 | 2965.3 | 2778.1 | 2514.9 |
| 12.5° | 3620.3 | 3608.6 | 3573.5 | 3523.8 | 3471.2 | 3395.2 | 3363.0 | 3231.4 | 3082.3 | 2874.6 | 2570.5 |
| 15°   | 3813.3 | 3795.8 | 3769.5 | 3716.8 | 3670.0 | 3596.9 | 3561.8 | 3406.9 | 3225.5 | 2982.8 | 2643.6 |
| 17.5° | 3939.1 | 3924.5 | 3901.1 | 3871.8 | 3833.8 | 3778.2 | 3743.2 | 3591.1 | 3368.8 | 3088.1 | 2719.6 |
| 20°   | 4015.1 | 4009.3 | 4000.5 | 3982.9 | 3965.4 | 3927.4 | 3901.1 | 3757.8 | 3523.8 | 3190.5 | 2792.7 |
| 22.5° | 4073.6 | 4067.8 | 4064.8 | 4064.8 | 4067.8 | 4053.1 | 4035.6 | 3912.8 | 3673.0 | 3298.7 | 2860.0 |
| 25°   | 4164.3 | 4161.3 | 4155.5 | 4149.6 | 4170.1 | 4173.0 | 4167.2 | 4082.4 | 3860.1 | 3441.9 | 2944.8 |
| 27.5° | 4290.0 | 4281.2 | 4269.5 | 4263.7 | 4284.2 | 4298.8 | 4310.5 | 4252.0 | 4059.0 | 3588.2 | 3041.3 |
| 30°   | 4483.0 | 4456.7 | 4427.4 | 4407.0 | 4421.6 | 4445.0 | 4471.3 | 4436.2 | 4263.7 | 3769.5 | 3140.7 |
| 32.5° | 4711.1 | 4678.9 | 4611.7 | 4573.7 | 4611.7 | 4629.2 | 4649.7 | 4632.1 | 4477.2 | 3965.4 | 3240.2 |
| 35°   | 4988.9 | 4950.9 | 4880.7 | 4825.2 | 4892.4 | 4854.4 | 4845.6 | 4828.1 | 4678.9 | 4158.4 | 3351.3 |
| 37.5° | 5451.0 | 5395.4 | 5284.3 | 5161.5 | 5161.5 | 5079.6 | 5047.4 | 4994.8 | 4860.2 | 4330.9 | 3459.5 |
| 40°   | 5986.1 | 5913.0 | 5769.7 | 5588.4 | 5421.7 | 5252.1 | 5231.6 | 5193.6 | 5073.7 | 4529.8 | 3582.3 |
| 42.5° | 6573.9 | 6433.5 | 6234.7 | 6015.4 | 5746.3 | 5553.3 | 5506.5 | 5398.3 | 5281.4 | 4731.6 | 3705.1 |
| 45°   | 7226.0 | 6933.6 | 6644.1 | 6533.0 | 6088.5 | 5913.0 | 5825.3 | 5629.3 | 5497.8 | 4942.1 | 3833.8 |
| 47.5° | 7331.3 | 7103.2 | 6910.2 | 6892.7 | 6407.2 | 6261.0 | 6161.6 | 5880.8 | 5731.7 | 5167.3 | 3968.3 |
| 50°   | 7272.8 | 7135.4 | 7155.9 | 7085.7 | 6641.2 | 6544.7 | 6468.6 | 6149.9 | 5962.7 | 5383.7 | 4091.1 |
| 52.5° | 7027.2 | 7103.2 | 7220.2 | 7091.5 | 6863.4 | 6784.5 | 6746.4 | 6439.4 | 6179.1 | 5582.6 | 4202.3 |
| 55°   | 6734.7 | 6787.4 | 7038.9 | 7196.8 | 7120.8 | 7050.6 | 7015.5 | 6775.7 | 6392.6 | 5749.2 | 4304.6 |
| 57.5° | 6307.8 | 6284.4 | 6562.2 | 7179.2 | 7389.8 | 7348.9 | 7310.8 | 7106.1 | 6591.5 | 5869.1 | 4369.0 |
| 60°   | 5667.4 | 5617.7 | 5968.6 | 6828.3 | 7477.5 | 7541.9 | 7524.3 | 7325.5 | 6743.5 | 5866.2 | 4342.6 |
| 62.5° | 4559.0 | 4681.9 | 5167.3 | 6255.2 | 7515.5 | 7679.3 | 7647.1 | 7343.0 | 6793.2 | 5696.6 | 4176.0 |
| 65°   | 3389.3 | 3564.8 | 4041.4 | 5465.6 | 7462.9 | 7749.5 | 7661.8 | 7056.4 | 6562.2 | 5360.3 | 3810.4 |
| 67.5° | 2441.8 | 2596.8 | 2944.8 | 4497.6 | 6957.0 | 7427.8 | 7325.5 | 6588.5 | 6030.0 | 4883.6 | 3304.5 |
| 70°   | 1669.8 | 1780.9 | 2017.8 | 3275.3 | 5939.3 | 6421.8 | 6357.5 | 5889.6 | 5190.7 | 4316.3 | 2684.5 |
| 72.5° | 1178.5 | 1225.3 | 1377.4 | 2161.1 | 4512.3 | 5038.6 | 4962.6 | 4845.6 | 4170.1 | 3588.2 | 2088.0 |
| 75°   | 883.1  | 912.4  | 994.3  | 1397.8 | 3044.2 | 3491.7 | 3421.5 | 3488.7 | 3114.4 | 2716.7 | 1520.7 |
| 77.5° | 333.4  | 362.6  | 564.4  | 891.9  | 1801.4 | 2143.5 | 2073.4 | 2114.3 | 1731.2 | 1371.5 | 757.4  |
| 80°   | 90.7   | 96.5   | 187.2  | 424.0  | 818.8  | 1067.4 | 970.9  | 833.4  | 643.4  | 631.7  | 400.6  |
| 82.5° | 38.0   | 43.9   | 84.8   | 228.1  | 292.4  | 292.4  | 245.6  | 304.1  | 245.6  | 295.4  | 193.0  |
| 85°   | 14.6   | 17.5   | 20.5   | 58.5   | 38.0   | 40.9   | 43.9   | 58.5   | 49.7   | 61.4   | 43.9   |
| 87.5° | 0.0    | 0.0    | 0.0    | 2.9    | 2.9    | 5.8    | 2.9    | 5.8    | 8.8    | 8.8    | 8.8    |
| 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°    | 2362.9 | 2362.9 | 2362.9 | 2362.9 | 2362.9 | 2362.9 | 2362.9 | 2362.9 | 2362.9 | 2362.9 | 2362.9 |
| 2.5°  | 2348.2 | 2316.1 | 2269.3 | 2193.3 | 2114.3 | 2070.4 | 2014.9 | 2006.1 | 1947.6 | 1941.8 | 1918.4 |
| 5°    | 2362.9 | 2295.6 | 2175.7 | 2029.5 | 1886.2 | 1775.1 | 1693.2 | 1649.3 | 1564.5 | 1564.5 | 1541.1 |
| 7.5°  | 2374.6 | 2269.3 | 2076.3 | 1859.9 | 1663.9 | 1514.8 | 1403.7 | 1356.9 | 1280.9 | 1275.0 | 1257.5 |
| 10°   | 2377.5 | 2237.1 | 1968.1 | 1687.3 | 1447.5 | 1295.5 | 1187.3 | 1134.6 | 1067.4 | 1061.5 | 1049.8 |
| 12.5° | 2400.9 | 2219.6 | 1871.6 | 1538.2 | 1292.6 | 1128.8 | 1023.5 | 979.7  | 927.0  | 921.2  | 909.5  |
| 15°   | 2438.9 | 2219.6 | 1789.7 | 1412.5 | 1155.1 | 1003.0 | 912.4  | 871.5  | 833.4  | 827.6  | 821.7  |
| 17.5° | 2476.9 | 2213.7 | 1707.8 | 1295.5 | 1041.1 | 903.6  | 824.7  | 792.5  | 763.3  | 760.3  | 754.5  |
| 20°   | 2512.0 | 2210.8 | 1625.9 | 1196.1 | 953.3  | 821.7  | 760.3  | 731.1  | 707.7  | 707.7  | 704.8  |
| 22.5° | 2547.1 | 2205.0 | 1547.0 | 1102.5 | 877.3  | 760.3  | 707.7  | 675.5  | 658.0  | 658.0  | 655.1  |
| 25°   | 2599.7 | 2205.0 | 1473.9 | 1023.5 | 815.9  | 713.5  | 660.9  | 637.5  | 622.9  | 620.0  | 620.0  |
| 27.5° | 2661.1 | 2222.5 | 1409.5 | 953.3  | 763.3  | 666.7  | 625.8  | 602.4  | 584.9  | 579.0  | 581.9  |
| 30°   | 2728.4 | 2237.1 | 1351.0 | 891.9  | 713.5  | 631.7  | 587.8  | 564.4  | 546.9  | 541.0  | 543.9  |
| 32.5° | 2795.7 | 2254.7 | 1298.4 | 836.4  | 663.8  | 599.5  | 555.6  | 529.3  | 511.8  | 508.8  | 508.8  |
| 35°   | 2868.8 | 2272.2 | 1245.8 | 789.6  | 622.9  | 567.3  | 526.4  | 497.1  | 485.4  | 479.6  | 482.5  |
| 37.5° | 2941.9 | 2301.5 | 1196.1 | 745.7  | 593.6  | 538.1  | 500.1  | 470.8  | 462.0  | 459.1  | 459.1  |
| 40°   | 3029.6 | 2345.3 | 1175.6 | 716.5  | 567.3  | 511.8  | 479.6  | 450.3  | 441.6  | 441.6  | 441.6  |
| 42.5° | 3102.7 | 2380.4 | 1158.0 | 684.3  | 546.9  | 488.4  | 459.1  | 435.7  | 429.9  | 427.0  | 429.9  |
| 45°   | 3175.8 | 2412.6 | 1134.6 | 655.1  | 520.5  | 465.0  | 441.6  | 418.2  | 412.3  | 412.3  | 412.3  |
| 47.5° | 3248.9 | 2430.1 | 1102.5 | 625.8  | 497.1  | 444.5  | 424.0  | 403.6  | 397.7  | 397.7  | 397.7  |
| 50°   | 3307.4 | 2444.7 | 1055.7 | 593.6  | 470.8  | 427.0  | 406.5  | 386.0  | 380.2  | 380.2  | 380.2  |
| 52.5° | 3365.9 | 2447.7 | 1006.0 | 555.6  | 444.5  | 406.5  | 388.9  | 368.5  | 362.6  | 359.7  | 359.7  |
| 55°   | 3418.5 | 2444.7 | 947.5  | 511.8  | 415.3  | 383.1  | 368.5  | 350.9  | 339.2  | 327.5  | 333.4  |
| 57.5° | 3456.6 | 2441.8 | 880.2  | 467.9  | 386.0  | 359.7  | 353.8  | 330.5  | 307.1  | 277.8  | 283.7  |
| 60°   | 3441.9 | 2409.7 | 807.1  | 412.3  | 353.8  | 336.3  | 336.3  | 304.1  | 263.2  | 248.6  | 251.5  |
| 62.5° | 3348.4 | 2319.0 | 731.1  | 353.8  | 321.7  | 312.9  | 310.0  | 274.9  | 242.7  | 228.1  | 231.0  |
| 65°   | 3067.6 | 2090.9 | 620.0  | 301.2  | 289.5  | 286.6  | 286.6  | 254.4  | 225.2  | 207.6  | 210.6  |
| 67.5° | 2640.7 | 1754.6 | 505.9  | 254.4  | 257.3  | 263.2  | 263.2  | 233.9  | 204.7  | 187.2  | 190.1  |
| 70°   | 2117.2 | 1371.5 | 403.6  | 219.3  | 222.2  | 231.0  | 236.9  | 210.6  | 184.2  | 166.7  | 166.7  |
| 72.5° | 1593.8 | 1041.1 | 324.6  | 184.2  | 198.9  | 198.9  | 207.6  | 187.2  | 160.8  | 143.3  | 146.2  |
| 75°   | 1155.1 | 745.7  | 257.3  | 155.0  | 172.5  | 169.6  | 169.6  | 157.9  | 137.4  | 125.7  | 125.7  |
| 77.5° | 546.9  | 391.9  | 204.7  | 111.1  | 134.5  | 131.6  | 134.5  | 125.7  | 117.0  | 105.3  | 108.2  |
| 80°   | 269.0  | 193.0  | 131.6  | 79.0   | 93.6   | 96.5   | 105.3  | 99.4   | 96.5   | 87.7   | 87.7   |
| 82.5° | 128.7  | 76.0   | 61.4   | 55.6   | 64.3   | 67.3   | 73.1   | 73.1   | 76.0   | 70.2   | 70.2   |
| 85°   | 35.1   | 20.5   | 26.3   | 35.1   | 40.9   | 43.9   | 49.7   | 52.6   | 52.6   | 49.7   | 52.6   |
| 87.5° | 8.8    | 8.8    | 11.7   | 17.5   | 20.5   | 23.4   | 26.3   | 26.3   | 11.7   | 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)