

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: P1211176

Luminaire Tested: **ARCH4-190-750-U-T2RE-HSS**

Issue Date: 11/5/2025

### Test Information

Test Method: LM-79-08  
Report Number: P1211176  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/5/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ARCH4-190-750-U-T2RE-HSS  
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 5000K, 1530mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II  
ROADWAY ILLUMINANCE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 21733 lumens  
Efficiency: N/A  
Efficacy: 114.4 lumens/watt  
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G3  
  
Input Watts (W): 190  
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



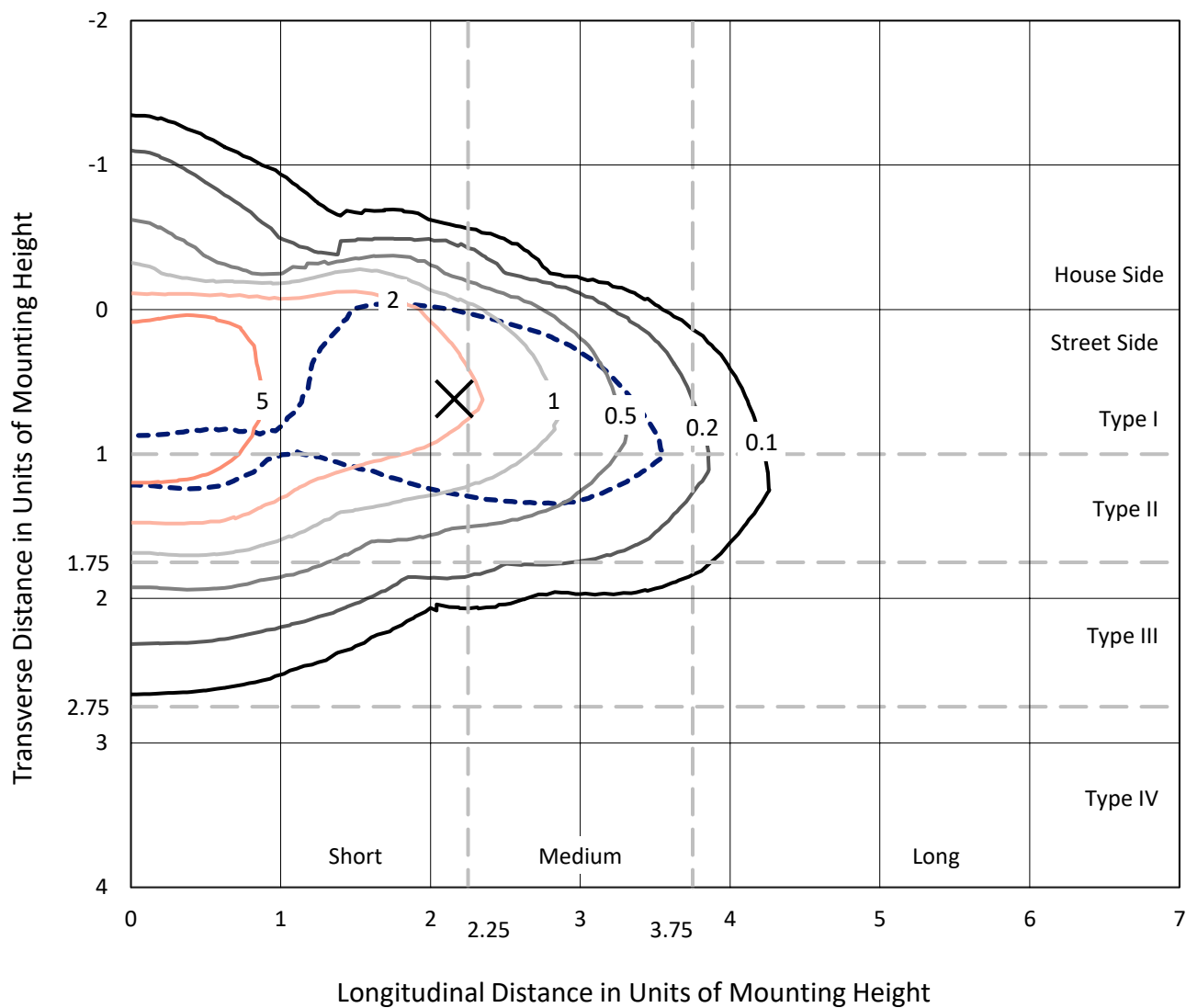
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## Iso-Footcandle Lines of Horizontal Illumination

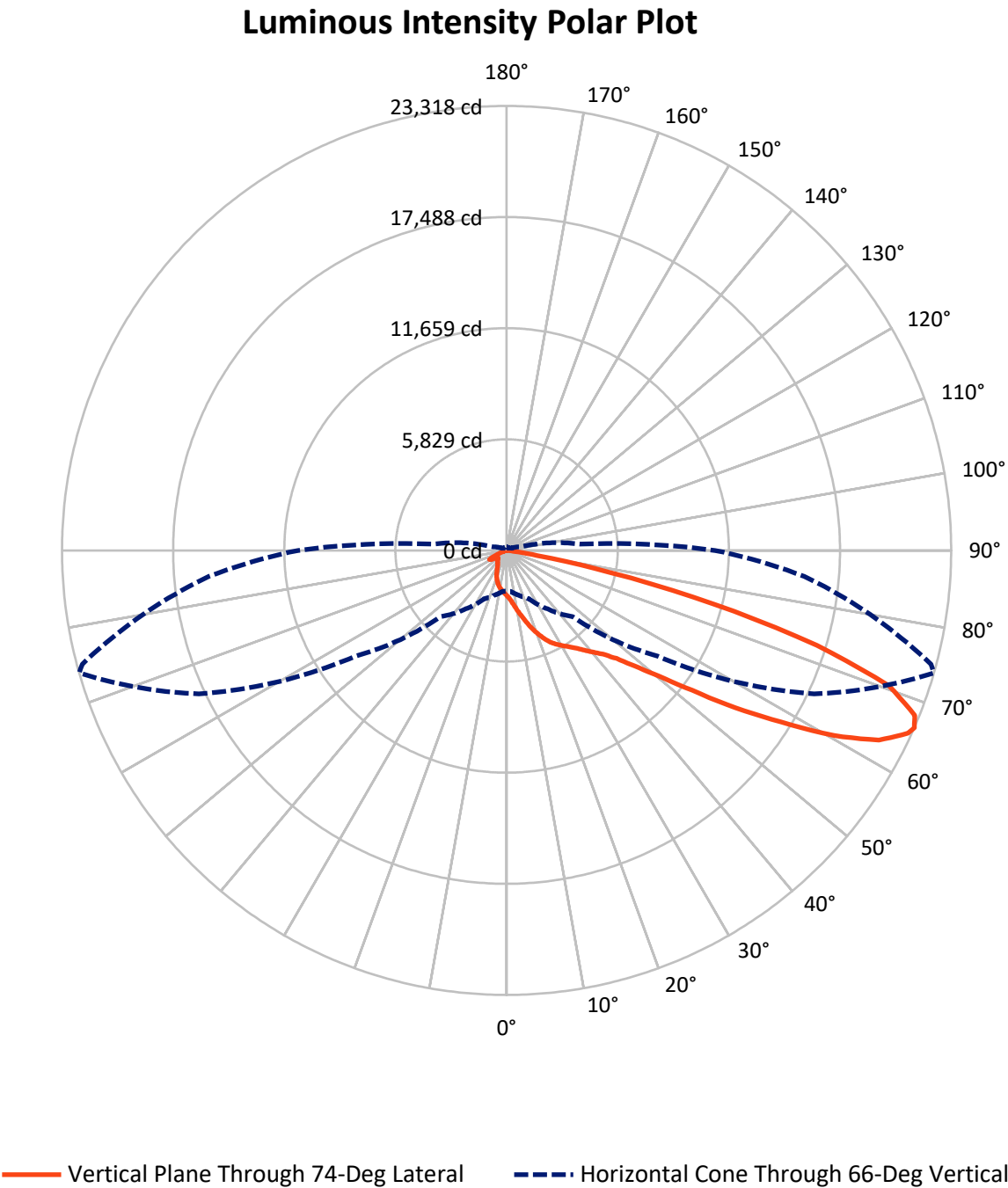
✕ Max cd

--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.9 fc  
 Type II - Short - N/A

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 2130.5   | 0.0    | 2130.5  |
|                    | % Fixture | 9.8      | 0.0    | 9.8     |
| <b>Street Side</b> | Lumens    | 19602.5  | 0.0    | 19602.5 |
|                    | % Fixture | 90.2     | 0.0    | 90.2    |
| <b>Total</b>       | Lumens    | 21733.0  | 0.0    | 21733.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 231.6   | 1.1       |
| 10°-20°   | 742.3   | 3.4       |
| 20°-30°   | 1416.7  | 6.5       |
| 30°-40°   | 2483.1  | 11.4      |
| 40°-50°   | 4257.9  | 19.6      |
| 50°-60°   | 5537.7  | 25.5      |
| 60°-70°   | 5013.0  | 23.1      |
| 70°-80°   | 1934.3  | 8.9       |
| 80°-90°   | 116.4   | 0.5       |
| 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°    | 21733.0 | 100.0     |
| 0°-180°   | 21733.0 | 100.0     |

**Coefficient of Utilization**



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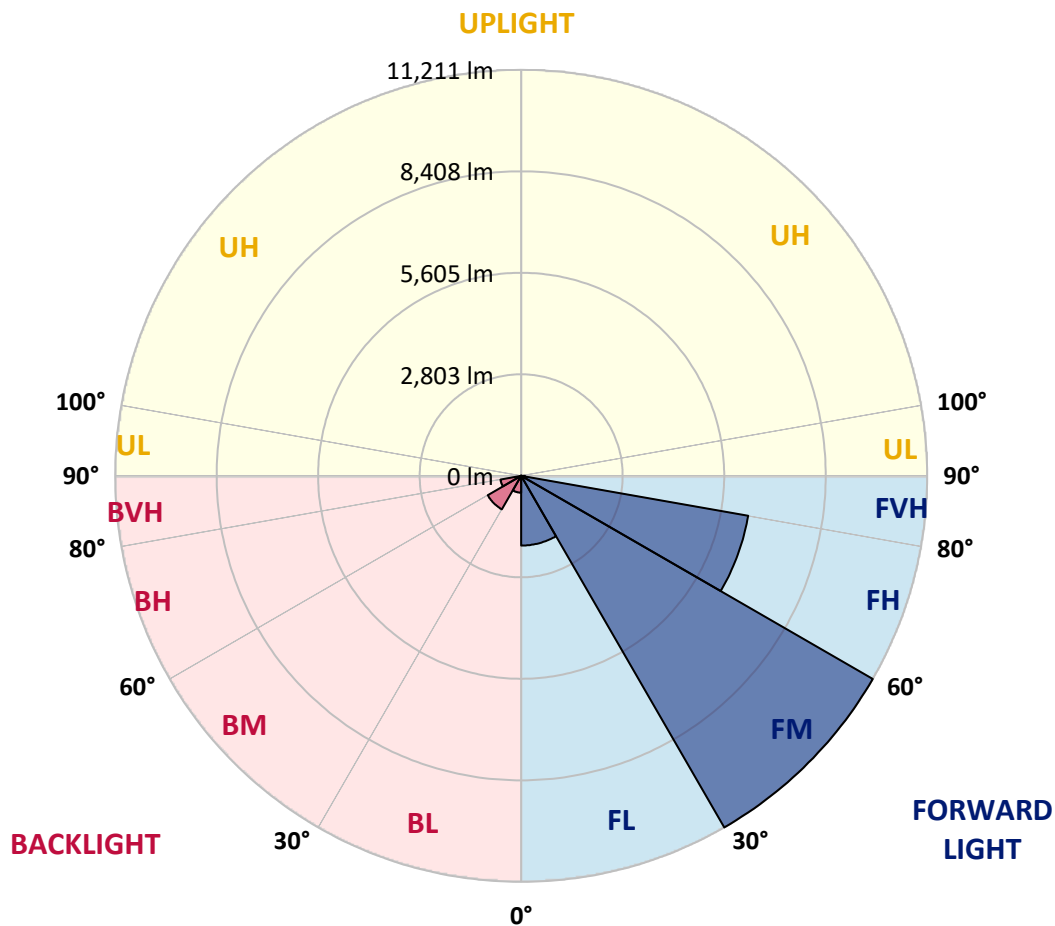
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 1925.9  | 8.9       |                         |      |         |
| FM   | (30°-60°)   | 11211.0 | 51.6      |                         |      |         |
| FH   | (60°-80°)   | 6364.8  | 29.3      |                         |      | G3/7500 |
| FVH  | (80°-90°)   | 100.8   | 0.5       |                         |      | G2/225  |
| BL   | (0°-30°)    | 464.7   | 2.1       | B1/500                  |      |         |
| BM   | (30°-60°)   | 1067.7  | 4.9       | B2/2500                 |      |         |
| BH   | (60°-80°)   | 582.5   | 2.7       | B2/1000                 |      | G2/1000 |
| BVH  | (80°-90°)   | 15.6    | 0.1       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B2-U0-G3**

Type II Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 74°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 2372.3  | 2372.3  | 2372.3  | 2372.3  | 2372.3  | 2372.3  | 2372.3  | 2372.3  | 2372.3  | 2372.3  | 2372.3  |
| 2.5°  | 2848.4  | 2825.0  | 2782.0  | 2778.1  | 2743.0  | 2700.1  | 2626.0  | 2547.9  | 2493.3  | 2485.5  | 2419.2  |
| 5°    | 3410.2  | 3398.5  | 3355.6  | 3328.3  | 3262.0  | 3160.5  | 2988.8  | 2817.2  | 2672.8  | 2657.2  | 2508.9  |
| 7.5°  | 3558.5  | 3566.3  | 3574.1  | 3601.4  | 3578.0  | 3531.2  | 3402.4  | 3160.5  | 2934.2  | 2899.1  | 2641.6  |
| 10°   | 3581.9  | 3574.1  | 3574.1  | 3609.2  | 3675.6  | 3741.9  | 3726.3  | 3519.5  | 3226.9  | 3183.9  | 2825.0  |
| 12.5° | 3835.6  | 3847.3  | 3819.9  | 3804.3  | 3792.6  | 3827.7  | 3944.8  | 3855.1  | 3535.1  | 3500.0  | 3047.4  |
| 15°   | 4163.3  | 4159.4  | 4120.4  | 4120.4  | 4085.3  | 4026.7  | 4100.9  | 4167.2  | 3905.8  | 3862.9  | 3301.0  |
| 17.5° | 4401.3  | 4416.9  | 4413.0  | 4436.4  | 4424.7  | 4346.7  | 4307.7  | 4444.2  | 4288.2  | 4233.5  | 3589.7  |
| 20°   | 4592.5  | 4635.4  | 4651.0  | 4725.2  | 4760.3  | 4705.7  | 4604.2  | 4690.1  | 4654.9  | 4604.2  | 3882.4  |
| 22.5° | 4795.4  | 4830.5  | 4857.8  | 4986.6  | 5084.2  | 5072.4  | 4943.7  | 4924.2  | 5010.0  | 4963.2  | 4171.1  |
| 25°   | 4998.3  | 5013.9  | 5095.9  | 5251.9  | 5408.0  | 5447.0  | 5314.4  | 5162.2  | 5330.0  | 5287.1  | 4428.6  |
| 27.5° | 5220.7  | 5228.5  | 5326.1  | 5517.3  | 5735.8  | 5817.7  | 5712.4  | 5431.4  | 5575.8  | 5575.8  | 4662.8  |
| 30°   | 5626.5  | 5704.6  | 5743.6  | 5915.3  | 6106.4  | 6219.6  | 6094.7  | 5716.3  | 5794.3  | 5829.4  | 4908.6  |
| 32.5° | 6500.5  | 6512.2  | 6500.5  | 6574.7  | 6613.7  | 6680.0  | 6535.7  | 6036.2  | 6016.7  | 6055.7  | 5150.5  |
| 35°   | 7835.0  | 7788.2  | 7663.3  | 7554.0  | 7327.7  | 7202.9  | 7015.6  | 6445.9  | 6289.8  | 6344.5  | 5388.5  |
| 37.5° | 9454.3  | 9387.9  | 9103.1  | 8767.5  | 8283.7  | 7784.3  | 7550.1  | 6945.4  | 6637.1  | 6707.3  | 5646.0  |
| 40°   | 10999.4 | 10956.5 | 10617.0 | 10203.4 | 9376.2  | 8521.7  | 8026.2  | 7366.8  | 7023.4  | 7050.7  | 5907.5  |
| 42.5° | 12271.4 | 12263.6 | 11978.8 | 11545.7 | 10484.4 | 9317.7  | 8588.0  | 7780.4  | 7429.2  | 7472.1  | 6180.6  |
| 45°   | 13235.2 | 13161.1 | 12950.3 | 12638.2 | 11557.4 | 10144.9 | 9267.0  | 8408.6  | 8080.8  | 8131.5  | 6590.3  |
| 47.5° | 13235.2 | 13246.9 | 13383.5 | 13352.2 | 12306.5 | 10921.4 | 10008.3 | 9200.6  | 9044.6  | 9091.4  | 7265.3  |
| 50°   | 12158.3 | 12267.5 | 12876.2 | 13387.4 | 12696.7 | 11526.2 | 10808.2 | 10191.7 | 10351.7 | 10421.9 | 8443.7  |
| 52.5° | 10027.8 | 10211.2 | 11268.6 | 12435.3 | 12408.0 | 11830.5 | 11635.4 | 11452.0 | 12170.0 | 12294.8 | 10183.9 |
| 55°   | 7620.4  | 7741.3  | 9118.7  | 10652.1 | 11151.6 | 11580.8 | 12357.3 | 13051.8 | 14577.4 | 14550.1 | 11951.5 |
| 57.5° | 5692.8  | 5806.0  | 6992.2  | 8693.4  | 9352.8  | 10500.0 | 12727.9 | 14881.8 | 16965.4 | 17070.7 | 13609.8 |
| 60°   | 4186.7  | 4272.6  | 5283.1  | 6680.0  | 7632.1  | 8845.6  | 12579.7 | 16684.5 | 19716.2 | 19595.3 | 15073.0 |
| 62.5° | 3098.1  | 3144.9  | 3874.6  | 4783.7  | 6047.9  | 7206.8  | 11647.1 | 17917.4 | 21913.0 | 21667.2 | 15888.5 |
| 65°   | 2395.8  | 2411.4  | 2789.8  | 3273.7  | 4397.4  | 5603.1  | 10258.1 | 18104.7 | 23126.5 | 22865.0 | 15872.9 |
| 66°   | 2134.3  | 2146.0  | 2423.1  | 2797.7  | 3741.9  | 4904.7  | 9649.4  | 17804.3 | 23317.7 | 23040.6 | 15677.8 |
| 67.5° | 1791.0  | 1783.2  | 1947.0  | 2192.9  | 2809.4  | 3784.8  | 8568.5  | 16926.4 | 23091.3 | 22950.9 | 15053.5 |
| 70°   | 1326.6  | 1330.5  | 1412.5  | 1471.0  | 1642.7  | 2095.3  | 6188.4  | 14682.8 | 21280.9 | 21273.1 | 13340.5 |
| 72.5° | 983.3   | 995.0   | 1057.4  | 1069.1  | 1026.2  | 1135.4  | 3566.3  | 11678.3 | 17023.9 | 17027.8 | 9973.2  |
| 75°   | 737.5   | 757.0   | 776.5   | 784.3   | 745.3   | 717.9   | 1611.5  | 7858.4  | 11198.4 | 11116.5 | 5646.0  |
| 77.5° | 561.9   | 569.7   | 585.3   | 573.6   | 565.8   | 495.5   | 671.1   | 3831.6  | 5529.0  | 5037.3  | 1830.0  |
| 80°   | 409.7   | 409.7   | 425.3   | 409.7   | 405.8   | 355.1   | 366.8   | 1229.1  | 1623.2  | 1350.1  | 394.1   |
| 82.5° | 257.5   | 253.6   | 265.3   | 261.4   | 253.6   | 226.3   | 214.6   | 343.4   | 374.6   | 335.6   | 191.2   |
| 85°   | 144.4   | 140.5   | 136.6   | 132.7   | 121.0   | 101.4   | 117.1   | 128.8   | 171.7   | 175.6   | 136.6   |
| 87.5° | 50.7    | 50.7    | 46.8    | 42.9    | 35.1    | 35.1    | 42.9    | 42.9    | 62.4    | 62.4    | 70.2    |
| 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°    | 2372.3  | 2372.3 | 2372.3 | 2372.3 | 2372.3 | 2372.3 | 2372.3 | 2372.3 | 2372.3 | 2372.3 | 2372.3 |
| 2.5°  | 2388.0  | 2345.0 | 2282.6 | 2200.7 | 2142.1 | 2083.6 | 2021.2 | 1986.1 | 1935.3 | 1923.6 | 1939.2 |
| 5°    | 2430.9  | 2352.8 | 2196.8 | 2025.1 | 1876.8 | 1744.1 | 1619.3 | 1545.1 | 1471.0 | 1443.7 | 1455.4 |
| 7.5°  | 2520.6  | 2388.0 | 2122.6 | 1845.6 | 1599.8 | 1400.8 | 1252.5 | 1166.7 | 1100.3 | 1073.0 | 1080.8 |
| 10°   | 2653.3  | 2450.4 | 2052.4 | 1642.7 | 1326.6 | 1115.9 | 991.1  | 936.5  | 897.4  | 881.8  | 885.7  |
| 12.5° | 2813.3  | 2540.1 | 1962.6 | 1439.8 | 1092.5 | 909.1  | 850.6  | 838.9  | 831.1  | 823.3  | 827.2  |
| 15°   | 2992.7  | 2618.2 | 1857.3 | 1240.8 | 909.1  | 807.7  | 788.2  | 784.3  | 780.4  | 780.4  | 780.4  |
| 17.5° | 3180.0  | 2688.4 | 1740.2 | 1053.5 | 792.1  | 745.3  | 733.6  | 733.6  | 733.6  | 737.5  | 737.5  |
| 20°   | 3355.6  | 2743.0 | 1603.7 | 885.7  | 725.8  | 686.7  | 678.9  | 678.9  | 682.8  | 686.7  | 686.7  |
| 22.5° | 3527.3  | 2766.4 | 1443.7 | 768.7  | 671.1  | 636.0  | 624.3  | 624.3  | 624.3  | 628.2  | 628.2  |
| 25°   | 3675.6  | 2766.4 | 1283.7 | 694.5  | 624.3  | 589.2  | 573.6  | 569.7  | 573.6  | 573.6  | 573.6  |
| 27.5° | 3800.4  | 2754.7 | 1127.6 | 643.8  | 577.5  | 542.4  | 526.8  | 522.9  | 530.7  | 534.6  | 534.6  |
| 30°   | 3933.1  | 2739.1 | 1002.8 | 597.0  | 538.5  | 503.3  | 487.7  | 487.7  | 499.4  | 515.0  | 515.0  |
| 32.5° | 4061.9  | 2750.8 | 905.2  | 558.0  | 499.4  | 472.1  | 456.5  | 460.4  | 483.8  | 507.2  | 507.2  |
| 35°   | 4198.4  | 2774.2 | 846.7  | 530.7  | 472.1  | 444.8  | 433.1  | 444.8  | 468.2  | 491.6  | 491.6  |
| 37.5° | 4335.0  | 2801.6 | 811.6  | 507.2  | 448.7  | 421.4  | 413.6  | 429.2  | 456.5  | 479.9  | 483.8  |
| 40°   | 4479.4  | 2825.0 | 772.6  | 483.8  | 433.1  | 401.9  | 398.0  | 413.6  | 448.7  | 472.1  | 476.0  |
| 42.5° | 4658.8  | 2871.8 | 725.8  | 464.3  | 417.5  | 378.5  | 382.4  | 394.1  | 429.2  | 464.3  | 468.2  |
| 45°   | 5010.0  | 3020.1 | 678.9  | 444.8  | 398.0  | 366.8  | 359.0  | 366.8  | 405.8  | 444.8  | 452.6  |
| 47.5° | 5669.4  | 3355.6 | 628.2  | 425.3  | 378.5  | 359.0  | 327.8  | 335.6  | 370.7  | 413.6  | 417.5  |
| 50°   | 6933.6  | 4069.7 | 600.9  | 405.8  | 362.9  | 331.7  | 296.5  | 296.5  | 323.9  | 362.9  | 362.9  |
| 52.5° | 8904.1  | 5349.5 | 616.5  | 390.2  | 343.4  | 304.3  | 269.2  | 265.3  | 280.9  | 308.2  | 308.2  |
| 55°   | 11030.6 | 6754.2 | 675.0  | 374.6  | 320.0  | 288.7  | 249.7  | 230.2  | 241.9  | 257.5  | 257.5  |
| 57.5° | 12716.2 | 7460.4 | 835.0  | 366.8  | 292.6  | 277.0  | 226.3  | 199.0  | 210.7  | 226.3  | 226.3  |
| 60°   | 13457.6 | 7046.8 | 1014.5 | 374.6  | 273.1  | 257.5  | 202.9  | 175.6  | 195.1  | 210.7  | 214.6  |
| 62.5° | 12856.7 | 5802.1 | 1088.6 | 355.1  | 245.8  | 230.2  | 199.0  | 163.9  | 187.3  | 199.0  | 202.9  |
| 65°   | 11557.4 | 4409.1 | 850.6  | 308.2  | 226.3  | 199.0  | 179.5  | 156.1  | 175.6  | 187.3  | 187.3  |
| 66°   | 10940.9 | 3843.4 | 725.8  | 284.8  | 218.5  | 187.3  | 171.7  | 156.1  | 171.7  | 179.5  | 183.4  |
| 67.5° | 9984.9  | 3031.8 | 538.5  | 249.7  | 202.9  | 171.7  | 160.0  | 148.3  | 163.9  | 171.7  | 171.7  |
| 70°   | 7807.7  | 1806.6 | 323.9  | 195.1  | 175.6  | 152.2  | 144.4  | 136.6  | 148.3  | 152.2  | 152.2  |
| 72.5° | 4889.1  | 858.4  | 206.8  | 144.4  | 148.3  | 144.4  | 121.0  | 128.8  | 132.7  | 136.6  | 136.6  |
| 75°   | 2368.4  | 339.5  | 140.5  | 105.4  | 121.0  | 136.6  | 97.5   | 113.2  | 117.1  | 124.9  | 121.0  |
| 77.5° | 659.4   | 163.9  | 89.7   | 78.0   | 105.4  | 105.4  | 74.1   | 89.7   | 105.4  | 132.7  | 121.0  |
| 80°   | 191.2   | 105.4  | 58.5   | 58.5   | 74.1   | 74.1   | 50.7   | 62.4   | 70.2   | 78.0   | 81.9   |
| 82.5° | 132.7   | 70.2   | 39.0   | 42.9   | 42.9   | 46.8   | 31.2   | 31.2   | 39.0   | 39.0   | 42.9   |
| 85°   | 105.4   | 31.2   | 23.4   | 27.3   | 19.5   | 23.4   | 15.6   | 15.6   | 19.5   | 15.6   | 15.6   |
| 87.5° | 42.9    | 15.6   | 15.6   | 15.6   | 11.7   | 11.7   | 7.8    | 3.9    | 3.9    | 3.9    | 3.9    |
| 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)