

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: P1210838

Luminaire Tested: **ARCH3-90-722-U-T3RE-HSS**

Issue Date: 11/5/2025

### Test Information

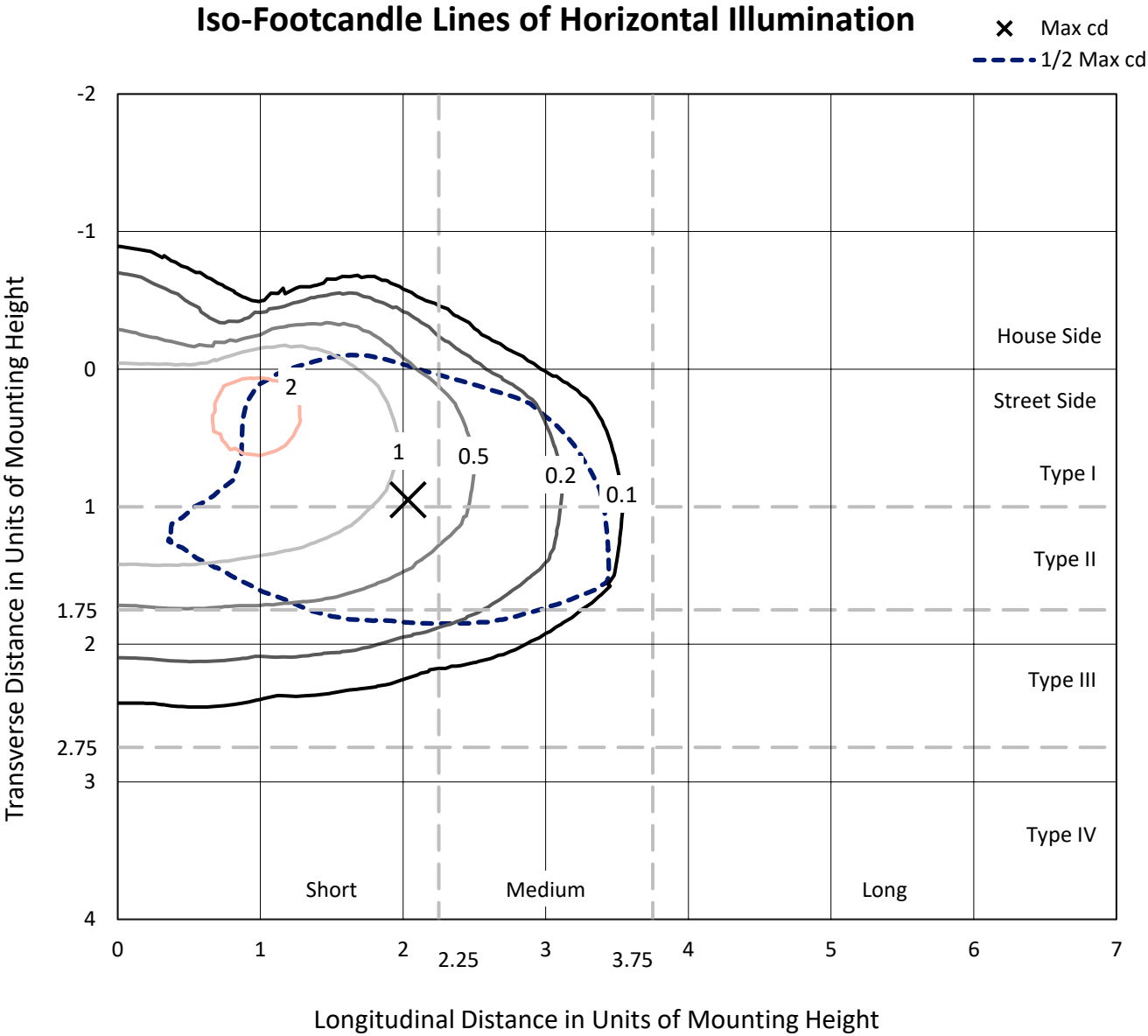
Test Method: LM-79-08  
Report Number: P1210838  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/5/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ARCH3-90-722-U-T3RE-HSS  
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 2200K, 735mA LIGHTSQUARE WITH 40 LEDS AND TYPE III ROADWAY  
ILLUMINANCE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 8802 lumens  
Efficiency: N/A  
Efficacy: 94.5 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): 93.1  
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

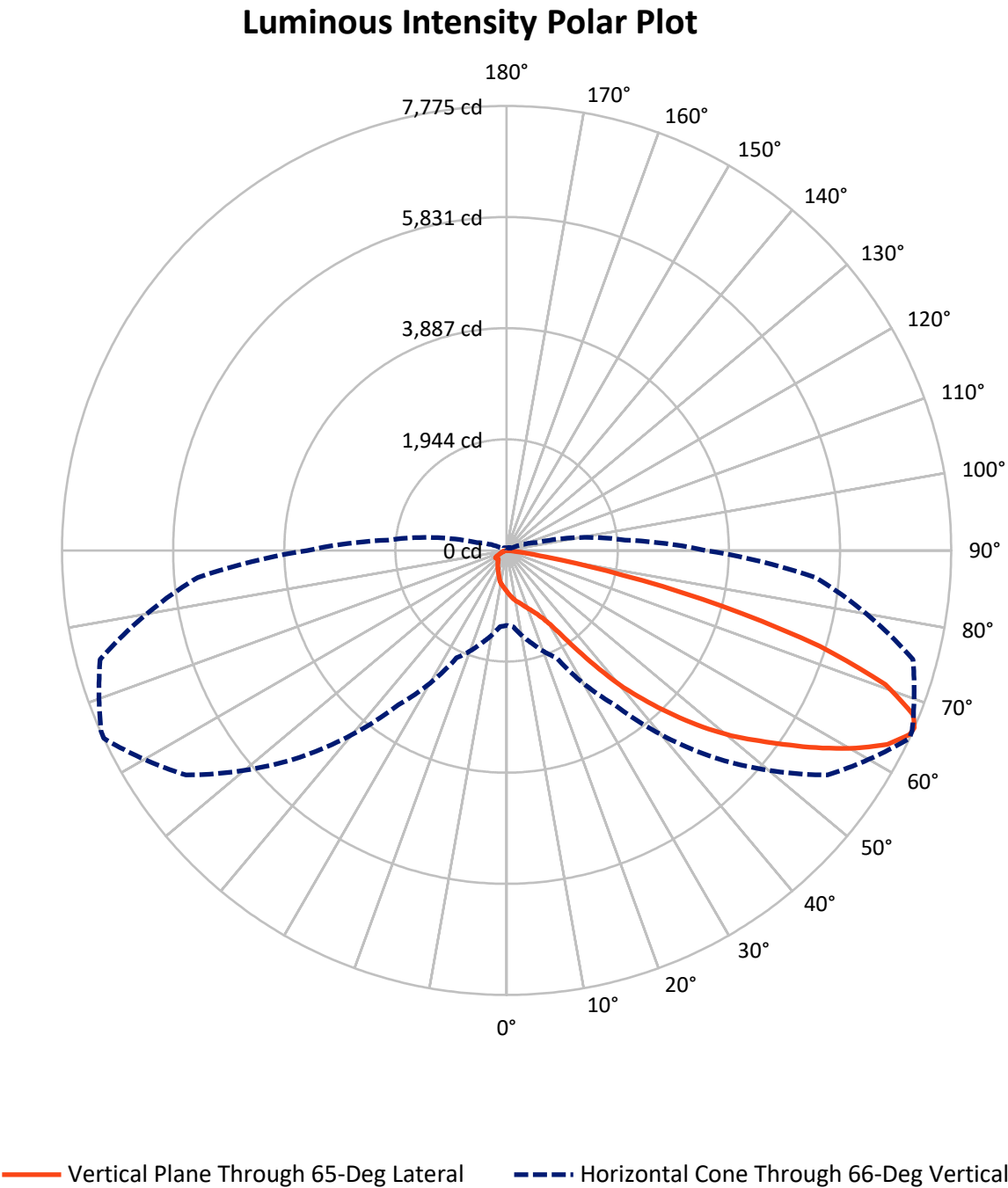


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Based on 25 foot mounting height. Maximum calculated value = 2.4 fc  
Type III - Short - N/A

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1038.8   | 0.0    | 1038.8 |
|                    | % Fixture | 11.8     | 0.0    | 11.8   |
| <b>Street Side</b> | Lumens    | 7763.2   | 0.0    | 7763.2 |
|                    | % Fixture | 88.2     | 0.0    | 88.2   |
| <b>Total</b>       | Lumens    | 8802.0   | 0.0    | 8802.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 68.0   | 0.8       |
| 10°-20°   | 201.3  | 2.3       |
| 20°-30°   | 368.4  | 4.2       |
| 30°-40°   | 748.5  | 8.5       |
| 40°-50°   | 1580.6 | 18.0      |
| 50°-60°   | 2429.9 | 27.6      |
| 60°-70°   | 2445.9 | 27.8      |
| 70°-80°   | 913.9  | 10.4      |
| 80°-90°   | 45.7   | 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°    | 8802.0 | 100.0     |
| 0°-180°   | 8802.0 | 100.0     |

**Coefficient of Utilization**



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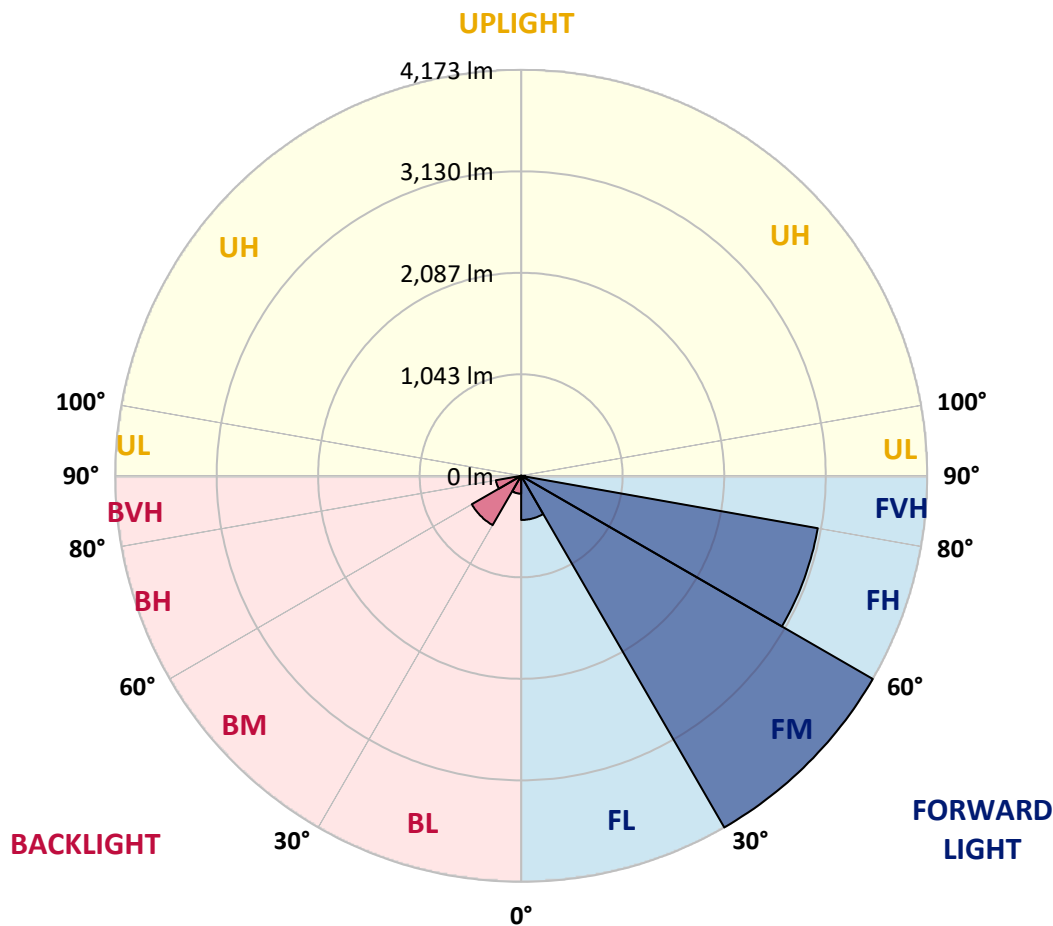
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 453.7  | 5.2       |                         |      |         |
| FM   | (30°-60°)   | 4173.3 | 47.4      |                         |      |         |
| FH   | (60°-80°)   | 3095.9 | 35.2      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 40.3   | 0.5       |                         |      | G1/100  |
| BL   | (0°-30°)    | 183.9  | 2.1       | B1/500                  |      |         |
| BM   | (30°-60°)   | 585.7  | 6.7       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 263.9  | 3.0       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 5.4    | 0.1       |                         |      | G0/10   |
| 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°    | 45°    | 55°    | 65°    | 66°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 717.1  | 717.1  | 717.1  | 717.1  | 717.1  | 717.1  | 717.1  | 717.1  | 717.1  | 717.1  | 717.1  |
| 2.5°  | 817.7  | 819.3  | 816.1  | 809.7  | 803.4  | 795.4  | 782.6  | 761.8  | 758.6  | 744.3  | 728.3  |
| 5°    | 873.6  | 876.8  | 872.0  | 870.4  | 867.2  | 856.1  | 838.5  | 808.2  | 805.0  | 776.2  | 739.5  |
| 7.5°  | 892.8  | 897.6  | 894.4  | 894.4  | 894.4  | 889.6  | 881.6  | 854.5  | 849.7  | 812.9  | 757.0  |
| 10°   | 907.2  | 910.4  | 908.8  | 915.2  | 920.0  | 916.8  | 912.0  | 896.0  | 891.2  | 854.5  | 781.0  |
| 12.5° | 929.5  | 931.1  | 932.7  | 935.9  | 943.9  | 947.1  | 945.5  | 931.1  | 927.9  | 902.4  | 811.3  |
| 15°   | 950.3  | 950.3  | 951.9  | 966.3  | 977.4  | 983.8  | 985.4  | 974.3  | 971.1  | 950.3  | 849.7  |
| 17.5° | 969.5  | 971.1  | 975.9  | 991.8  | 1011.0 | 1023.8 | 1031.8 | 1027.0 | 1022.2 | 1006.2 | 894.4  |
| 20°   | 998.2  | 1001.4 | 1006.2 | 1028.6 | 1047.7 | 1068.5 | 1084.5 | 1082.9 | 1081.3 | 1070.1 | 947.1  |
| 22.5° | 1047.7 | 1050.9 | 1058.9 | 1079.7 | 1098.8 | 1124.4 | 1151.5 | 1149.9 | 1145.1 | 1137.2 | 1009.4 |
| 25°   | 1122.8 | 1122.8 | 1127.6 | 1145.1 | 1169.1 | 1199.5 | 1225.0 | 1229.8 | 1225.0 | 1220.2 | 1087.7 |
| 27.5° | 1217.0 | 1218.6 | 1218.6 | 1237.8 | 1260.1 | 1298.5 | 1330.4 | 1335.2 | 1335.2 | 1330.4 | 1193.1 |
| 30°   | 1348.0 | 1343.2 | 1340.0 | 1356.0 | 1379.9 | 1435.8 | 1491.7 | 1501.3 | 1496.5 | 1504.5 | 1341.6 |
| 32.5° | 1573.2 | 1565.2 | 1538.0 | 1541.2 | 1555.6 | 1632.3 | 1726.5 | 1760.0 | 1758.4 | 1772.8 | 1581.2 |
| 35°   | 1884.6 | 1868.7 | 1828.7 | 1795.2 | 1793.6 | 1876.6 | 2020.4 | 2146.6 | 2145.0 | 2194.5 | 1945.3 |
| 37.5° | 2236.0 | 2256.8 | 2181.7 | 2124.2 | 2106.6 | 2172.1 | 2357.4 | 2630.5 | 2644.9 | 2731.1 | 2422.9 |
| 40°   | 2705.6 | 2718.3 | 2622.5 | 2541.0 | 2458.0 | 2482.0 | 2726.3 | 3151.2 | 3176.7 | 3272.5 | 2900.4 |
| 42.5° | 3114.4 | 3127.2 | 3071.3 | 2972.3 | 2866.9 | 2822.1 | 3098.4 | 3623.9 | 3644.7 | 3777.2 | 3392.3 |
| 45°   | 3392.3 | 3401.9 | 3421.1 | 3430.7 | 3310.9 | 3218.2 | 3553.6 | 4109.4 | 4135.0 | 4288.3 | 3873.1 |
| 47.5° | 3609.5 | 3617.5 | 3655.9 | 3751.7 | 3727.7 | 3654.3 | 4016.8 | 4614.1 | 4620.5 | 4791.4 | 4341.0 |
| 50°   | 3710.2 | 3729.3 | 3823.6 | 3970.5 | 4075.9 | 4096.7 | 4519.9 | 5091.7 | 5109.2 | 5272.2 | 4783.4 |
| 52.5° | 3598.4 | 3604.7 | 3842.7 | 4119.0 | 4331.4 | 4542.3 | 5024.6 | 5534.1 | 5585.2 | 5706.6 | 5181.1 |
| 55°   | 3221.4 | 3267.7 | 3628.7 | 4114.2 | 4532.7 | 4965.5 | 5564.4 | 6011.6 | 6057.9 | 6134.6 | 5530.9 |
| 57.5° | 2783.8 | 2834.9 | 3274.1 | 3908.2 | 4618.9 | 5356.8 | 6064.3 | 6519.5 | 6551.5 | 6572.2 | 5851.9 |
| 60°   | 2405.3 | 2453.2 | 2905.2 | 3513.7 | 4532.7 | 5633.1 | 6529.1 | 7024.2 | 7051.4 | 6995.5 | 6013.2 |
| 62.5° | 1940.5 | 1988.4 | 2443.6 | 2991.4 | 4194.1 | 5689.0 | 6874.1 | 7473.0 | 7484.2 | 7332.5 | 5914.2 |
| 65°   | 1463.0 | 1494.9 | 1875.0 | 2344.6 | 3601.5 | 5391.9 | 6952.3 | 7752.5 | 7741.3 | 7429.9 | 5617.1 |
| 66°   | 1311.3 | 1338.4 | 1673.8 | 2073.1 | 3293.3 | 5120.4 | 6846.9 | 7774.9 | 7763.7 | 7358.0 | 5422.3 |
| 67.5° | 1130.8 | 1138.8 | 1415.1 | 1696.2 | 2755.1 | 4543.9 | 6525.9 | 7672.7 | 7682.2 | 7160.0 | 5066.1 |
| 70°   | 883.2  | 881.6  | 1041.3 | 1180.3 | 1881.4 | 3232.6 | 5443.0 | 7029.0 | 7075.3 | 6412.5 | 4320.3 |
| 72.5° | 565.4  | 546.2  | 638.9  | 721.9  | 1095.6 | 1876.6 | 3968.9 | 5728.9 | 5807.2 | 5037.4 | 3218.2 |
| 75°   | 337.0  | 317.8  | 340.2  | 361.0  | 525.5  | 902.4  | 2333.4 | 3898.6 | 3973.7 | 3229.4 | 1915.0 |
| 77.5° | 252.3  | 244.4  | 246.0  | 228.4  | 233.2  | 338.6  | 1065.3 | 2060.3 | 2114.6 | 1322.4 | 726.7  |
| 80°   | 193.3  | 172.5  | 161.3  | 169.3  | 153.3  | 134.2  | 396.1  | 709.1  | 742.7  | 313.0  | 151.7  |
| 82.5° | 129.4  | 111.8  | 103.8  | 113.4  | 97.4   | 75.1   | 95.8   | 137.4  | 134.2  | 84.6   | 59.1   |
| 85°   | 67.1   | 57.5   | 57.5   | 57.5   | 49.5   | 36.7   | 41.5   | 55.9   | 55.9   | 44.7   | 35.1   |
| 87.5° | 19.2   | 17.6   | 20.8   | 19.2   | 14.4   | 14.4   | 16.0   | 19.2   | 19.2   | 17.6   | 16.0   |
| 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°    | 717.1  | 717.1  | 717.1  | 717.1 | 717.1 | 717.1 | 717.1 | 717.1 | 717.1 | 717.1 | 717.1 |
| 2.5°  | 715.5  | 709.1  | 691.6  | 678.8 | 666.0 | 654.8 | 642.0 | 638.9 | 632.5 | 634.1 | 630.9 |
| 5°    | 720.3  | 702.7  | 672.4  | 643.6 | 621.3 | 602.1 | 578.2 | 568.6 | 555.8 | 551.0 | 547.8 |
| 7.5°  | 726.7  | 701.1  | 656.4  | 616.5 | 578.2 | 539.8 | 501.5 | 479.1 | 464.8 | 458.4 | 453.6 |
| 10°   | 741.1  | 707.5  | 648.4  | 586.1 | 520.7 | 466.4 | 428.0 | 412.1 | 402.5 | 400.9 | 399.3 |
| 12.5° | 760.2  | 717.1  | 640.5  | 547.8 | 461.6 | 410.5 | 386.5 | 381.7 | 380.1 | 380.1 | 378.5 |
| 15°   | 789.0  | 733.1  | 627.7  | 503.1 | 415.3 | 380.1 | 368.9 | 361.0 | 357.8 | 357.8 | 357.8 |
| 17.5° | 817.7  | 752.3  | 608.5  | 456.8 | 383.3 | 361.0 | 349.8 | 345.0 | 341.8 | 343.4 | 341.8 |
| 20°   | 854.5  | 774.6  | 583.0  | 416.9 | 362.6 | 345.0 | 333.8 | 329.0 | 327.4 | 327.4 | 327.4 |
| 22.5° | 896.0  | 800.2  | 551.0  | 386.5 | 345.0 | 329.0 | 317.8 | 313.0 | 309.8 | 311.4 | 311.4 |
| 25°   | 951.9  | 832.1  | 517.5  | 356.2 | 327.4 | 313.0 | 300.3 | 293.9 | 293.9 | 295.5 | 297.1 |
| 27.5° | 1023.8 | 870.4  | 483.9  | 337.0 | 311.4 | 297.1 | 282.7 | 276.3 | 277.9 | 281.1 | 281.1 |
| 30°   | 1129.2 | 923.1  | 450.4  | 316.2 | 293.9 | 277.9 | 265.1 | 258.7 | 261.9 | 268.3 | 268.3 |
| 32.5° | 1279.3 | 1009.4 | 421.6  | 292.3 | 268.3 | 250.8 | 238.0 | 233.2 | 241.2 | 253.9 | 253.9 |
| 35°   | 1547.6 | 1167.5 | 404.1  | 268.3 | 241.2 | 220.4 | 204.4 | 199.6 | 210.8 | 226.8 | 226.8 |
| 37.5° | 1907.0 | 1421.5 | 410.5  | 247.6 | 218.8 | 194.9 | 177.3 | 170.9 | 178.9 | 193.3 | 198.0 |
| 40°   | 2307.9 | 1728.1 | 466.4  | 230.0 | 198.0 | 174.1 | 156.5 | 150.1 | 154.9 | 161.3 | 162.9 |
| 42.5° | 2708.7 | 2053.9 | 571.8  | 217.2 | 182.1 | 156.5 | 140.5 | 135.8 | 139.0 | 140.5 | 142.1 |
| 45°   | 3108.0 | 2376.5 | 704.3  | 209.2 | 167.7 | 142.1 | 126.2 | 126.2 | 127.8 | 127.8 | 127.8 |
| 47.5° | 3486.6 | 2691.2 | 843.3  | 207.6 | 154.9 | 127.8 | 115.0 | 116.6 | 116.6 | 118.2 | 118.2 |
| 50°   | 3844.3 | 2972.3 | 983.8  | 212.4 | 143.7 | 115.0 | 105.4 | 105.4 | 105.4 | 107.0 | 105.4 |
| 52.5° | 4143.0 | 3218.2 | 1130.8 | 220.4 | 132.6 | 105.4 | 95.8  | 95.8  | 95.8  | 97.4  | 95.8  |
| 55°   | 4425.7 | 3441.8 | 1280.9 | 231.6 | 123.0 | 97.4  | 87.8  | 84.6  | 84.6  | 86.2  | 84.6  |
| 57.5° | 4655.7 | 3590.4 | 1423.1 | 233.2 | 115.0 | 89.4  | 81.5  | 76.7  | 76.7  | 76.7  | 76.7  |
| 60°   | 4665.2 | 3504.1 | 1464.6 | 204.4 | 105.4 | 81.5  | 73.5  | 67.1  | 68.7  | 68.7  | 68.7  |
| 62.5° | 4360.2 | 3050.5 | 1177.1 | 153.3 | 94.2  | 73.5  | 67.1  | 60.7  | 60.7  | 60.7  | 60.7  |
| 65°   | 3761.3 | 2373.3 | 690.0  | 121.4 | 81.5  | 65.5  | 59.1  | 54.3  | 54.3  | 54.3  | 52.7  |
| 66°   | 3480.2 | 2081.1 | 528.7  | 110.2 | 76.7  | 63.9  | 57.5  | 52.7  | 51.1  | 49.5  | 49.5  |
| 67.5° | 3021.8 | 1645.1 | 330.6  | 97.4  | 70.3  | 59.1  | 52.7  | 47.9  | 46.3  | 44.7  | 44.7  |
| 70°   | 2275.9 | 1044.5 | 161.3  | 75.1  | 60.7  | 51.1  | 46.3  | 41.5  | 39.9  | 38.3  | 36.7  |
| 72.5° | 1597.1 | 611.7  | 84.6   | 57.5  | 49.5  | 44.7  | 39.9  | 35.1  | 33.5  | 31.9  | 31.9  |
| 75°   | 902.4  | 295.5  | 55.9   | 41.5  | 39.9  | 36.7  | 33.5  | 28.7  | 27.2  | 27.2  | 27.2  |
| 77.5° | 341.8  | 102.2  | 38.3   | 30.3  | 31.9  | 28.7  | 24.0  | 24.0  | 22.4  | 24.0  | 22.4  |
| 80°   | 89.4   | 44.7   | 24.0   | 22.4  | 24.0  | 20.8  | 17.6  | 19.2  | 19.2  | 19.2  | 19.2  |
| 82.5° | 47.9   | 25.6   | 14.4   | 16.0  | 14.4  | 14.4  | 11.2  | 12.8  | 14.4  | 12.8  | 14.4  |
| 85°   | 33.5   | 12.8   | 8.0    | 8.0   | 6.4   | 6.4   | 4.8   | 6.4   | 8.0   | 6.4   | 6.4   |
| 87.5° | 17.6   | 4.8    | 4.8    | 4.8   | 4.8   | 3.2   | 1.6   | 0.0   | 1.6   | 1.6   | 1.6   |
| 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)