

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: P1210940

Luminaire Tested: **ARCH4-120-730-U-T2RE-HSS**

Issue Date: 11/5/2025

### Test Information

Test Method: LM-79-08  
Report Number: P1210940  
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: ARCH4-120-730-U-T2RE-HSS  
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 3000K, 1000mA 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: 14256 lumens  
Efficiency: N/A  
Efficacy: 116.9 lumens/watt  
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 122  
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

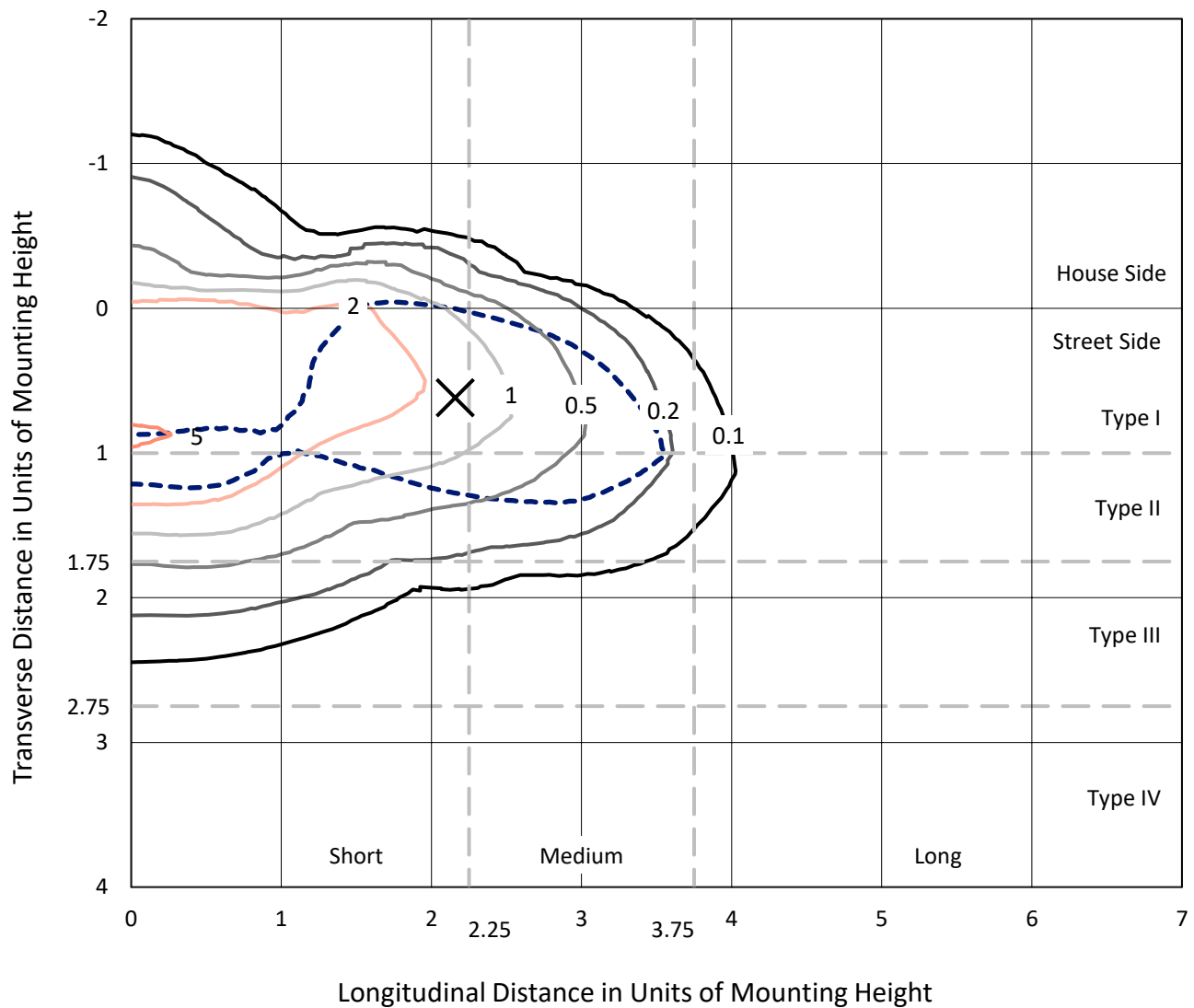


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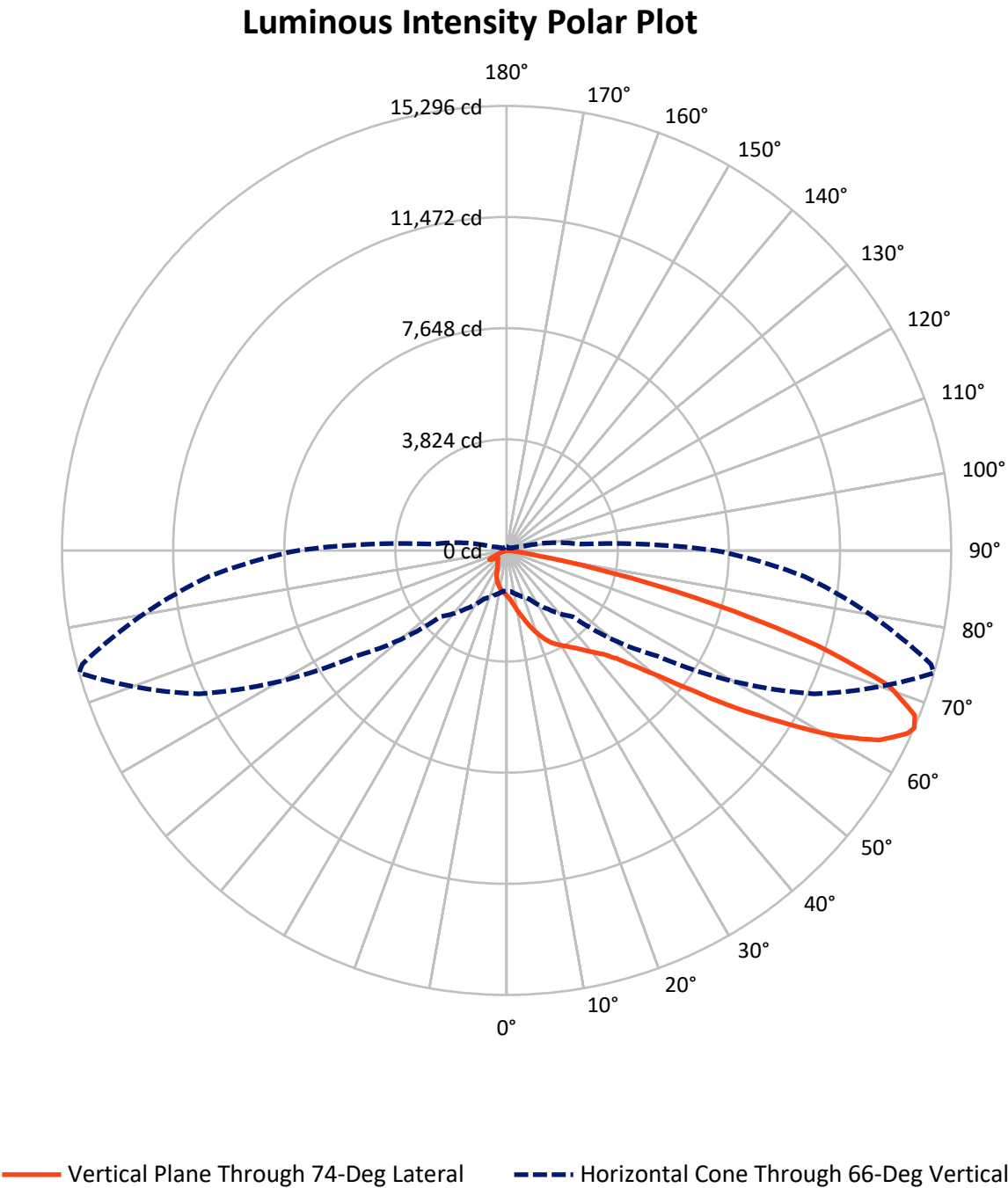
## Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 fc  
Type II - Short - N/A

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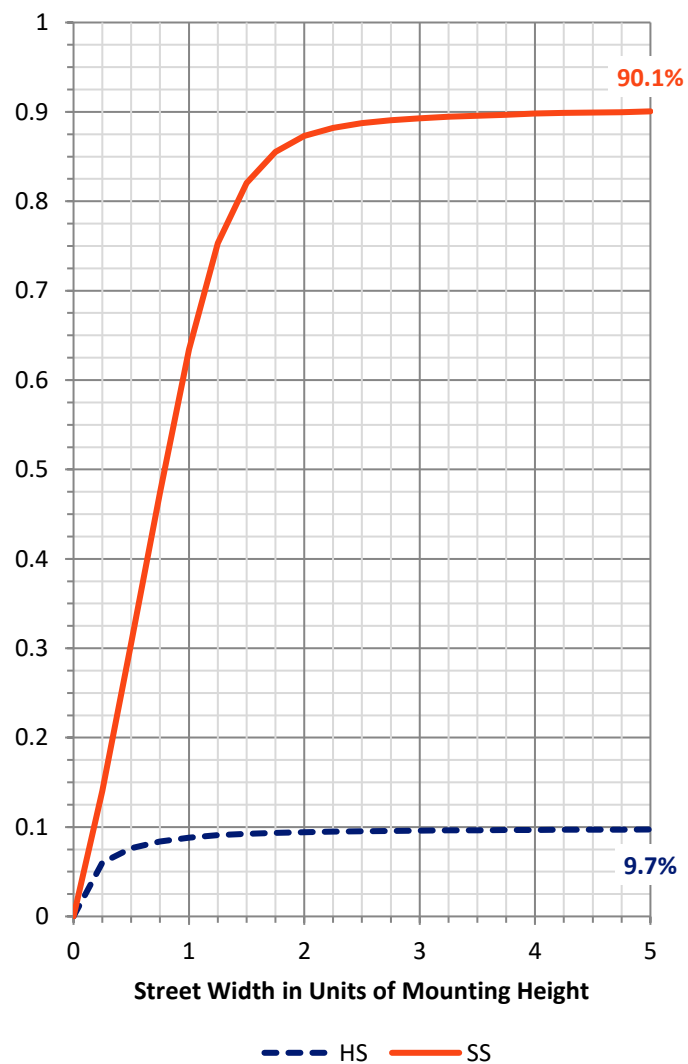
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 1397.5   | 0.0    | 1397.5  |
|                    | % Fixture | 9.8      | 0.0    | 9.8     |
| <b>Street Side</b> | Lumens    | 12858.5  | 0.0    | 12858.5 |
|                    | % Fixture | 90.2     | 0.0    | 90.2    |
| <b>Total</b>       | Lumens    | 14256.0  | 0.0    | 14256.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 151.9   | 1.1       |
| 10°-20°   | 486.9   | 3.4       |
| 20°-30°   | 929.3   | 6.5       |
| 30°-40°   | 1628.8  | 11.4      |
| 40°-50°   | 2793.0  | 19.6      |
| 50°-60°   | 3632.5  | 25.5      |
| 60°-70°   | 3288.3  | 23.1      |
| 70°-80°   | 1268.8  | 8.9       |
| 80°-90°   | 76.4    | 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°    | 14256.0 | 100.0     |
| 0°-180°   | 14256.0 | 100.0     |

**Coefficient of Utilization**



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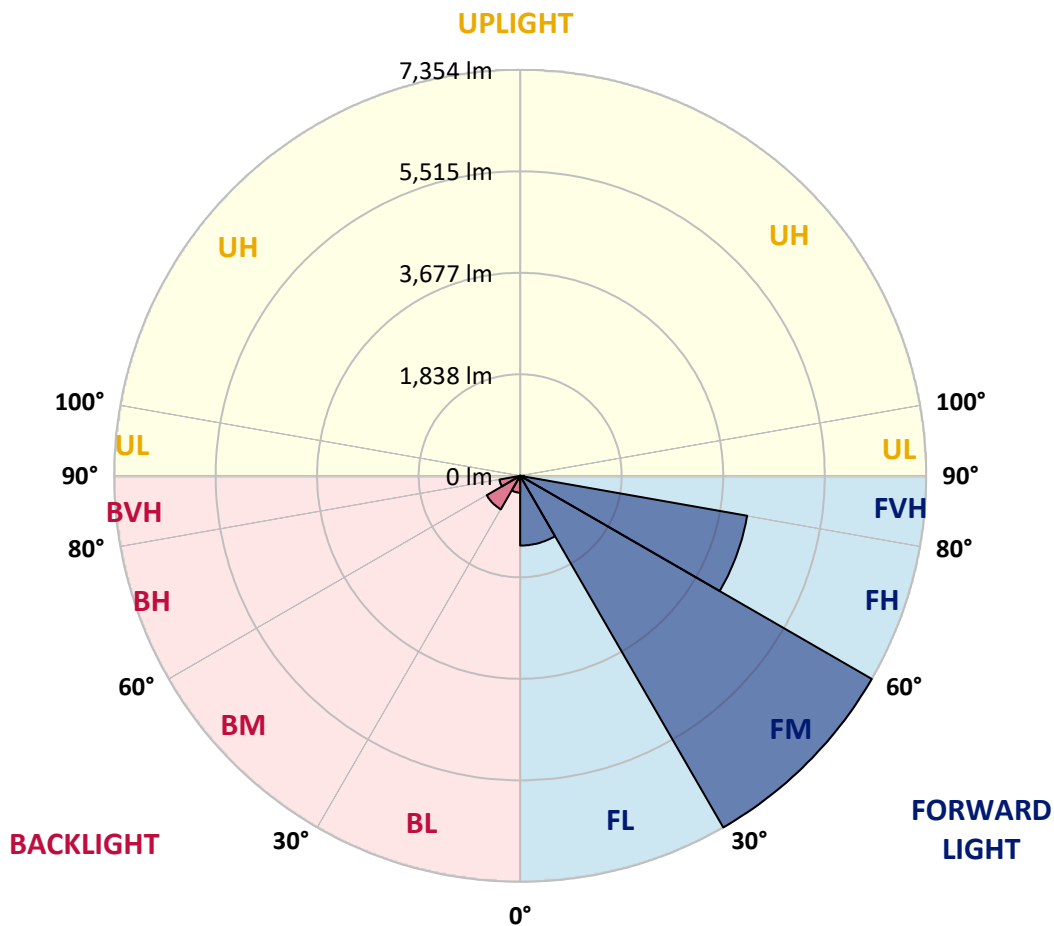
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 1263.3 | 8.9       |                         |      |         |
| FM   | (30°-60°)   | 7354.0 | 51.6      |                         |      |         |
| FH   | (60°-80°)   | 4175.1 | 29.3      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 66.1   | 0.5       |                         |      | G1/100  |
| BL   | (0°-30°)    | 304.8  | 2.1       | B1/500                  |      |         |
| BM   | (30°-60°)   | 700.4  | 4.9       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 382.1  | 2.7       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 10.2   | 0.1       |                         |      | 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 II Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°     | 74°     | 75°     | 85°     |
|-------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|
| 0°    | 1556.2 | 1556.2 | 1556.2 | 1556.2 | 1556.2 | 1556.2 | 1556.2 | 1556.2  | 1556.2  | 1556.2  | 1556.2  |
| 2.5°  | 1868.4 | 1853.1 | 1824.9 | 1822.4 | 1799.3 | 1771.2 | 1722.5 | 1671.3  | 1635.5  | 1630.4  | 1586.9  |
| 5°    | 2237.0 | 2229.3 | 2201.2 | 2183.2 | 2139.7 | 2073.2 | 1960.6 | 1847.9  | 1753.2  | 1743.0  | 1645.7  |
| 7.5°  | 2334.2 | 2339.4 | 2344.5 | 2362.4 | 2347.0 | 2316.3 | 2231.9 | 2073.2  | 1924.7  | 1901.7  | 1732.8  |
| 10°   | 2349.6 | 2344.5 | 2344.5 | 2367.5 | 2411.0 | 2454.5 | 2444.3 | 2308.7  | 2116.7  | 2088.5  | 1853.1  |
| 12.5° | 2516.0 | 2523.7 | 2505.7 | 2495.5 | 2487.8 | 2510.9 | 2587.6 | 2528.8  | 2318.9  | 2295.9  | 1999.0  |
| 15°   | 2731.0 | 2728.4 | 2702.8 | 2702.8 | 2679.8 | 2641.4 | 2690.0 | 2733.5  | 2562.0  | 2533.9  | 2165.3  |
| 17.5° | 2887.1 | 2897.3 | 2894.8 | 2910.1 | 2902.5 | 2851.3 | 2825.7 | 2915.3  | 2812.9  | 2777.0  | 2354.7  |
| 20°   | 3012.5 | 3040.7 | 3050.9 | 3099.5 | 3122.6 | 3086.7 | 3020.2 | 3076.5  | 3053.5  | 3020.2  | 2546.7  |
| 22.5° | 3145.6 | 3168.6 | 3186.6 | 3271.0 | 3335.0 | 3327.3 | 3242.9 | 3230.1  | 3286.4  | 3255.7  | 2736.1  |
| 25°   | 3278.7 | 3288.9 | 3342.7 | 3445.1 | 3547.4 | 3573.0 | 3486.0 | 3386.2  | 3496.3  | 3468.1  | 2905.0  |
| 27.5° | 3424.6 | 3429.7 | 3493.7 | 3619.1 | 3762.4 | 3816.2 | 3747.1 | 3562.8  | 3657.5  | 3657.5  | 3058.6  |
| 30°   | 3690.8 | 3742.0 | 3767.6 | 3880.2 | 4005.6 | 4079.8 | 3997.9 | 3749.6  | 3800.8  | 3823.9  | 3219.8  |
| 32.5° | 4264.1 | 4271.8 | 4264.1 | 4312.7 | 4338.3 | 4381.8 | 4287.1 | 3959.5  | 3946.7  | 3972.3  | 3378.5  |
| 35°   | 5139.4 | 5108.7 | 5026.8 | 4955.2 | 4806.7 | 4724.8 | 4602.0 | 4228.3  | 4125.9  | 4161.7  | 3534.6  |
| 37.5° | 6201.6 | 6158.1 | 5971.3 | 5751.2 | 5433.8 | 5106.2 | 4952.6 | 4555.9  | 4353.7  | 4399.8  | 3703.6  |
| 40°   | 7215.2 | 7187.0 | 6964.4 | 6693.0 | 6150.4 | 5589.9 | 5264.9 | 4832.3  | 4607.1  | 4625.0  | 3875.1  |
| 42.5° | 8049.6 | 8044.5 | 7857.6 | 7573.5 | 6877.3 | 6112.0 | 5633.4 | 5103.6  | 4873.3  | 4901.4  | 4054.2  |
| 45°   | 8681.8 | 8633.1 | 8494.9 | 8290.2 | 7581.2 | 6654.7 | 6078.8 | 5515.7  | 5300.7  | 5334.0  | 4323.0  |
| 47.5° | 8681.8 | 8689.4 | 8779.0 | 8758.6 | 8072.6 | 7164.0 | 6565.1 | 6035.3  | 5932.9  | 5963.6  | 4765.8  |
| 50°   | 7975.3 | 8047.0 | 8446.3 | 8781.6 | 8328.6 | 7560.7 | 7089.8 | 6685.4  | 6790.3  | 6836.4  | 5538.7  |
| 52.5° | 6577.9 | 6698.2 | 7391.8 | 8157.1 | 8139.2 | 7760.4 | 7632.4 | 7512.1  | 7983.0  | 8064.9  | 6680.3  |
| 55°   | 4998.7 | 5078.0 | 5981.5 | 6987.4 | 7315.0 | 7596.5 | 8105.9 | 8561.5  | 9562.2  | 9544.3  | 7839.7  |
| 57.5° | 3734.3 | 3808.5 | 4586.6 | 5702.5 | 6135.1 | 6887.6 | 8349.0 | 9761.9  | 11128.6 | 11197.7 | 8927.5  |
| 60°   | 2746.3 | 2802.6 | 3465.5 | 4381.8 | 5006.3 | 5802.3 | 8251.8 | 10944.3 | 12933.1 | 12853.7 | 9887.3  |
| 62.5° | 2032.2 | 2062.9 | 2541.6 | 3137.9 | 3967.2 | 4727.4 | 7640.1 | 11753.1 | 14374.1 | 14212.8 | 10422.2 |
| 65°   | 1571.5 | 1581.8 | 1830.0 | 2147.4 | 2884.5 | 3675.4 | 6728.9 | 11876.0 | 15170.1 | 14998.6 | 10412.0 |
| 66°   | 1400.0 | 1407.7 | 1589.4 | 1835.1 | 2454.5 | 3217.3 | 6329.6 | 11678.9 | 15295.5 | 15113.7 | 10284.0 |
| 67.5° | 1174.8 | 1169.7 | 1277.2 | 1438.4 | 1842.8 | 2482.7 | 5620.6 | 11103.0 | 15147.0 | 15054.9 | 9874.5  |
| 70°   | 870.2  | 872.8  | 926.5  | 964.9  | 1077.5 | 1374.4 | 4059.3 | 9631.3  | 13959.4 | 13954.3 | 8750.9  |
| 72.5° | 645.0  | 652.7  | 693.6  | 701.3  | 673.1  | 744.8  | 2339.4 | 7660.5  | 11167.0 | 11169.6 | 6542.0  |
| 75°   | 483.7  | 496.5  | 509.3  | 514.5  | 488.9  | 470.9  | 1057.1 | 5154.8  | 7345.7  | 7292.0  | 3703.6  |
| 77.5° | 368.6  | 373.7  | 383.9  | 376.2  | 371.1  | 325.1  | 440.2  | 2513.4  | 3626.8  | 3304.3  | 1200.4  |
| 80°   | 268.7  | 268.7  | 279.0  | 268.7  | 266.2  | 232.9  | 240.6  | 806.2   | 1064.7  | 885.6   | 258.5   |
| 82.5° | 168.9  | 166.4  | 174.0  | 171.5  | 166.4  | 148.5  | 140.8  | 225.2   | 245.7   | 220.1   | 125.4   |
| 85°   | 94.7   | 92.1   | 89.6   | 87.0   | 79.3   | 66.5   | 76.8   | 84.5    | 112.6   | 115.2   | 89.6    |
| 87.5° | 33.3   | 33.3   | 30.7   | 28.2   | 23.0   | 23.0   | 28.2   | 28.2    | 41.0    | 41.0    | 46.1    |
| 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°    | 1556.2 | 1556.2 | 1556.2 | 1556.2 | 1556.2 | 1556.2 | 1556.2 | 1556.2 | 1556.2 | 1556.2 | 1556.2 |
| 2.5°  | 1566.4 | 1538.2 | 1497.3 | 1443.5 | 1405.2 | 1366.8 | 1325.8 | 1302.8 | 1269.5 | 1261.8 | 1272.1 |
| 5°    | 1594.6 | 1543.4 | 1441.0 | 1328.4 | 1231.1 | 1144.1 | 1062.2 | 1013.6 | 964.9  | 947.0  | 954.7  |
| 7.5°  | 1653.4 | 1566.4 | 1392.4 | 1210.6 | 1049.4 | 918.9  | 821.6  | 765.3  | 721.8  | 703.9  | 709.0  |
| 10°   | 1740.4 | 1607.4 | 1346.3 | 1077.5 | 870.2  | 732.0  | 650.1  | 614.3  | 588.7  | 578.4  | 581.0  |
| 12.5° | 1845.4 | 1666.2 | 1287.4 | 944.4  | 716.7  | 596.4  | 558.0  | 550.3  | 545.2  | 540.1  | 542.6  |
| 15°   | 1963.1 | 1717.4 | 1218.3 | 813.9  | 596.4  | 529.8  | 517.0  | 514.5  | 511.9  | 511.9  | 511.9  |
| 17.5° | 2086.0 | 1763.5 | 1141.5 | 691.1  | 519.6  | 488.9  | 481.2  | 481.2  | 481.2  | 483.7  | 483.7  |
| 20°   | 2201.2 | 1799.3 | 1051.9 | 581.0  | 476.1  | 450.5  | 445.4  | 445.4  | 447.9  | 450.5  | 450.5  |
| 22.5° | 2313.8 | 1814.7 | 947.0  | 504.2  | 440.2  | 417.2  | 409.5  | 409.5  | 409.5  | 412.1  | 412.1  |
| 25°   | 2411.0 | 1814.7 | 842.1  | 455.6  | 409.5  | 386.5  | 376.2  | 373.7  | 376.2  | 376.2  | 376.2  |
| 27.5° | 2492.9 | 1807.0 | 739.7  | 422.3  | 378.8  | 355.8  | 345.5  | 343.0  | 348.1  | 350.6  | 350.6  |
| 30°   | 2580.0 | 1796.8 | 657.8  | 391.6  | 353.2  | 330.2  | 319.9  | 319.9  | 327.6  | 337.9  | 337.9  |
| 32.5° | 2664.4 | 1804.4 | 593.8  | 366.0  | 327.6  | 309.7  | 299.5  | 302.0  | 317.4  | 332.7  | 332.7  |
| 35°   | 2754.0 | 1819.8 | 555.4  | 348.1  | 309.7  | 291.8  | 284.1  | 291.8  | 307.1  | 322.5  | 322.5  |
| 37.5° | 2843.6 | 1837.7 | 532.4  | 332.7  | 294.3  | 276.4  | 271.3  | 281.5  | 299.5  | 314.8  | 317.4  |
| 40°   | 2938.3 | 1853.1 | 506.8  | 317.4  | 284.1  | 263.6  | 261.1  | 271.3  | 294.3  | 309.7  | 312.3  |
| 42.5° | 3056.0 | 1883.8 | 476.1  | 304.6  | 273.9  | 248.3  | 250.8  | 258.5  | 281.5  | 304.6  | 307.1  |
| 45°   | 3286.4 | 1981.0 | 445.4  | 291.8  | 261.1  | 240.6  | 235.5  | 240.6  | 266.2  | 291.8  | 296.9  |
| 47.5° | 3718.9 | 2201.2 | 412.1  | 279.0  | 248.3  | 235.5  | 215.0  | 220.1  | 243.2  | 271.3  | 273.9  |
| 50°   | 4548.2 | 2669.5 | 394.2  | 266.2  | 238.0  | 217.6  | 194.5  | 194.5  | 212.4  | 238.0  | 238.0  |
| 52.5° | 5840.7 | 3509.1 | 404.4  | 255.9  | 225.2  | 199.6  | 176.6  | 174.0  | 184.3  | 202.2  | 202.2  |
| 55°   | 7235.7 | 4430.5 | 442.8  | 245.7  | 209.9  | 189.4  | 163.8  | 151.0  | 158.7  | 168.9  | 168.9  |
| 57.5° | 8341.4 | 4893.7 | 547.7  | 240.6  | 192.0  | 181.7  | 148.5  | 130.5  | 138.2  | 148.5  | 148.5  |
| 60°   | 8827.7 | 4622.4 | 665.5  | 245.7  | 179.2  | 168.9  | 133.1  | 115.2  | 128.0  | 138.2  | 140.8  |
| 62.5° | 8433.5 | 3806.0 | 714.1  | 232.9  | 161.2  | 151.0  | 130.5  | 107.5  | 122.9  | 130.5  | 133.1  |
| 65°   | 7581.2 | 2892.2 | 558.0  | 202.2  | 148.5  | 130.5  | 117.7  | 102.4  | 115.2  | 122.9  | 122.9  |
| 66°   | 7176.8 | 2521.1 | 476.1  | 186.8  | 143.3  | 122.9  | 112.6  | 102.4  | 112.6  | 117.7  | 120.3  |
| 67.5° | 6549.7 | 1988.7 | 353.2  | 163.8  | 133.1  | 112.6  | 104.9  | 97.3   | 107.5  | 112.6  | 112.6  |
| 70°   | 5121.5 | 1185.0 | 212.4  | 128.0  | 115.2  | 99.8   | 94.7   | 89.6   | 97.3   | 99.8   | 99.8   |
| 72.5° | 3207.0 | 563.1  | 135.7  | 94.7   | 97.3   | 94.7   | 79.3   | 84.5   | 87.0   | 89.6   | 89.6   |
| 75°   | 1553.6 | 222.7  | 92.1   | 69.1   | 79.3   | 89.6   | 64.0   | 74.2   | 76.8   | 81.9   | 79.3   |
| 77.5° | 432.6  | 107.5  | 58.9   | 51.2   | 69.1   | 69.1   | 48.6   | 58.9   | 69.1   | 87.0   | 79.3   |
| 80°   | 125.4  | 69.1   | 38.4   | 38.4   | 48.6   | 48.6   | 33.3   | 41.0   | 46.1   | 51.2   | 53.7   |
| 82.5° | 87.0   | 46.1   | 25.6   | 28.2   | 28.2   | 30.7   | 20.5   | 20.5   | 25.6   | 25.6   | 28.2   |
| 85°   | 69.1   | 20.5   | 15.4   | 17.9   | 12.8   | 15.4   | 10.2   | 10.2   | 12.8   | 10.2   | 10.2   |
| 87.5° | 28.2   | 10.2   | 10.2   | 10.2   | 7.7    | 7.7    | 5.1    | 2.6    | 2.6    | 2.6    | 2.6    |
| 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)