

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: P1211484

Luminaire Tested: **ARCH4-290-730-U-T2RE-HSS**

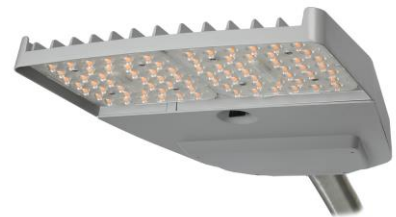
Issue Date: 11/5/2025

### Test Information

Test Method: LM-79-08  
Report Number: P1211484  
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: ARCH4-290-730-U-T2RE-HSS  
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 3000K, 1120mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II  
ROADWAY ILLUMINANCE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

### Summary

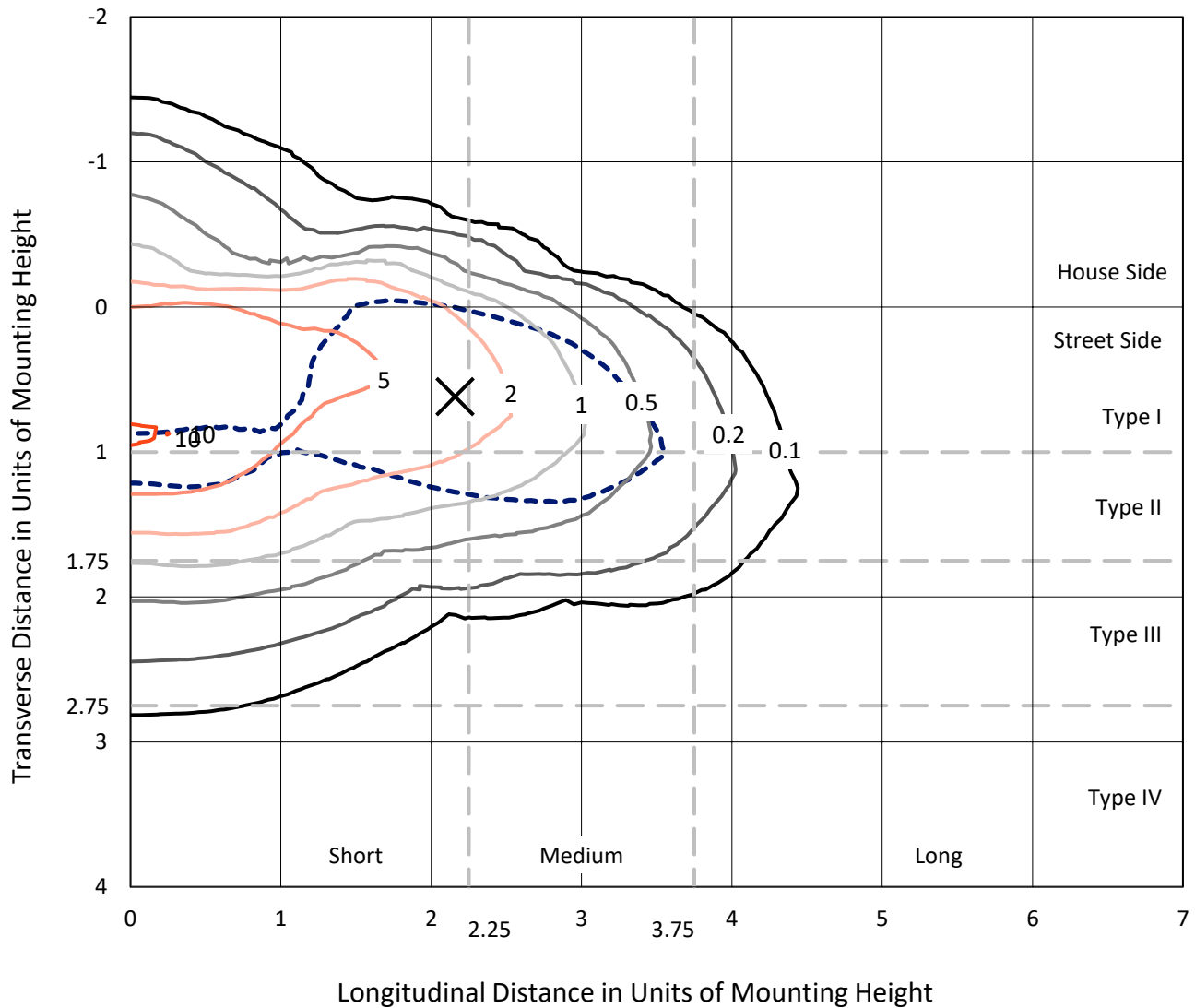
Lumens per Lamp: N/A  
Luminaire Lumens: 28438 lumens  
Efficiency: N/A  
Efficacy: 98.2 lumens/watt  
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G4  
  
Input Watts (W): 289.7  
Input Voltage (V): NR  
Input Current (Ain): 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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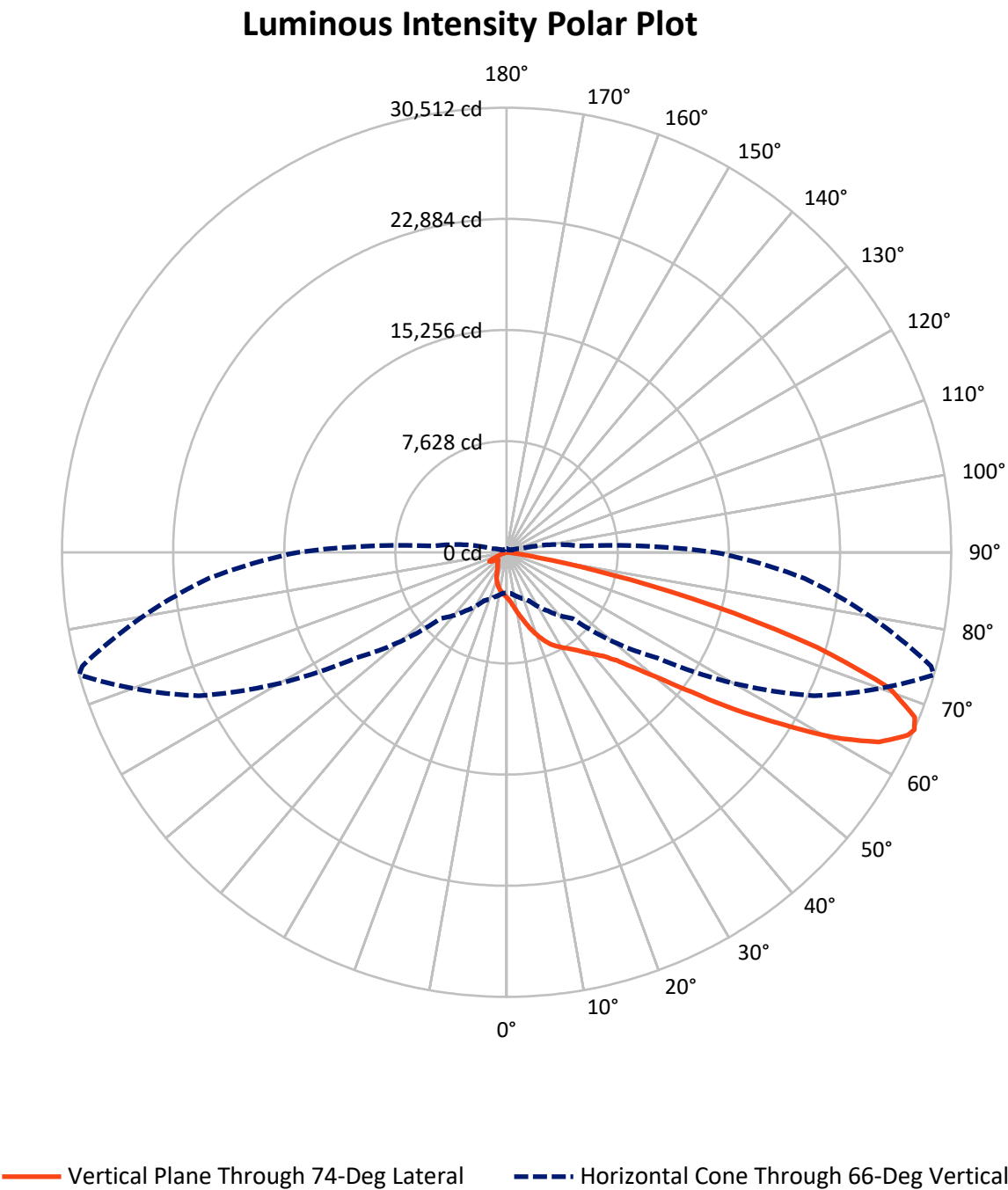
## Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.4 fc  
 Type II - Short - N/A

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 2787.8   | 0.0    | 2787.8  |
|                    | % Fixture | 9.8      | 0.0    | 9.8     |
| <b>Street Side</b> | Lumens    | 25650.2  | 0.0    | 25650.2 |
|                    | % Fixture | 90.2     | 0.0    | 90.2    |
| <b>Total</b>       | Lumens    | 28438.0  | 0.0    | 28438.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 303.0   | 1.1       |
| 10°-20°   | 971.3   | 3.4       |
| 20°-30°   | 1853.8  | 6.5       |
| 30°-40°   | 3249.2  | 11.4      |
| 40°-50°   | 5571.5  | 19.6      |
| 50°-60°   | 7246.2  | 25.5      |
| 60°-70°   | 6559.6  | 23.1      |
| 70°-80°   | 2531.1  | 8.9       |
| 80°-90°   | 152.3   | 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°    | 28438.0 | 100.0     |
| 0°-180°   | 28438.0 | 100.0     |

**Coefficient of Utilization**



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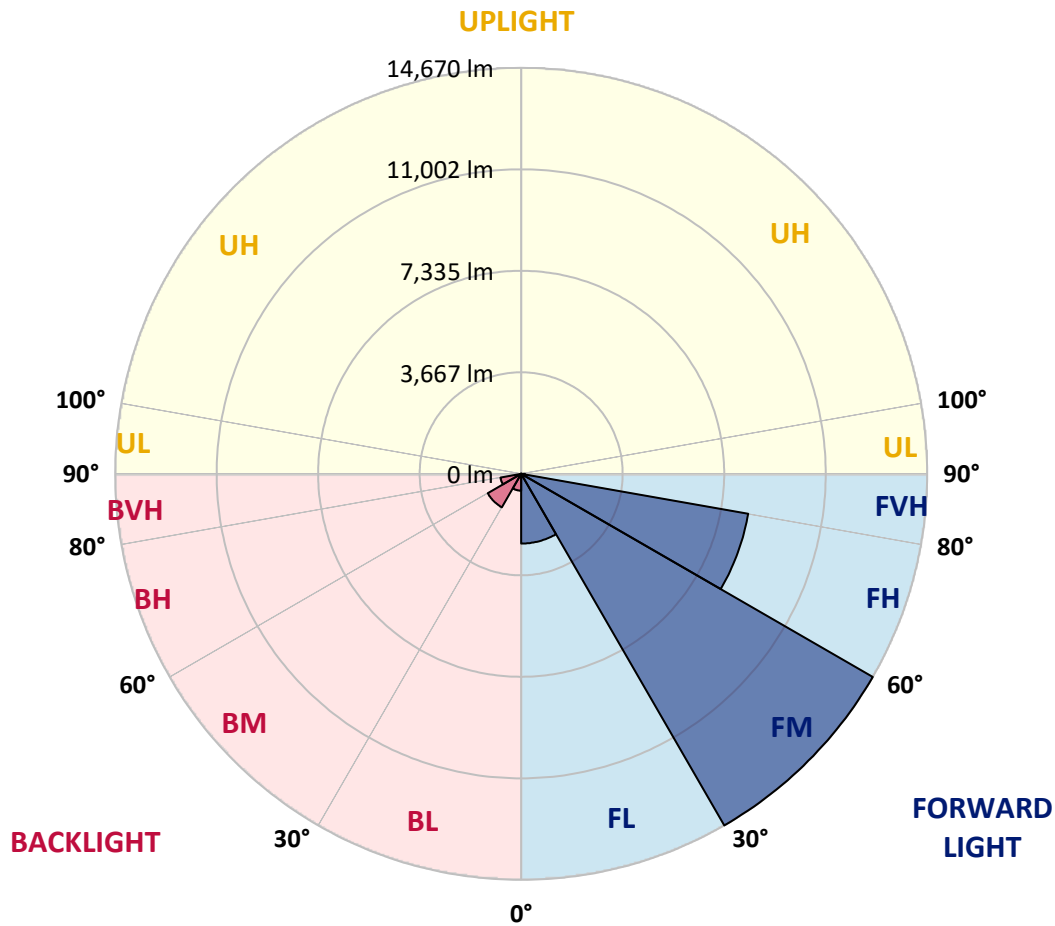
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|------|-------------|---------|-----------|-------------------------|------|----------|
|      |             |         |           | B                       | U    | G        |
| FL   | (0°-30°)    | 2520.0  | 8.9       |                         |      |          |
| FM   | (30°-60°)   | 14669.8 | 51.6      |                         |      |          |
| FH   | (60°-80°)   | 8328.5  | 29.3      |                         |      | G4/12000 |
| FVH  | (80°-90°)   | 131.9   | 0.5       |                         |      | G2/225   |
| BL   | (0°-30°)    | 608.1   | 2.1       | B2/1000                 |      |          |
| BM   | (30°-60°)   | 1397.2  | 4.9       | B2/2500                 |      |          |
| BH   | (60°-80°)   | 762.1   | 2.7       | B2/1000                 |      | G2/1000  |
| BVH  | (80°-90°)   | 20.4    | 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-G4**

Type II Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 74°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 3104.3  | 3104.3  | 3104.3  | 3104.3  | 3104.3  | 3104.3  | 3104.3  | 3104.3  | 3104.3  | 3104.3  | 3104.3  |
| 2.5°  | 3727.1  | 3696.5  | 3640.3  | 3635.2  | 3589.3  | 3533.1  | 3436.1  | 3334.0  | 3262.5  | 3252.3  | 3165.5  |
| 5°    | 4462.4  | 4447.0  | 4390.9  | 4355.1  | 4268.3  | 4135.6  | 3911.0  | 3686.3  | 3497.4  | 3477.0  | 3283.0  |
| 7.5°  | 4656.4  | 4666.6  | 4676.8  | 4712.5  | 4681.9  | 4620.6  | 4452.2  | 4135.6  | 3839.5  | 3793.5  | 3456.5  |
| 10°   | 4687.0  | 4676.8  | 4676.8  | 4722.8  | 4809.6  | 4896.3  | 4875.9  | 4605.3  | 4222.4  | 4166.2  | 3696.5  |
| 12.5° | 5018.9  | 5034.2  | 4998.5  | 4978.0  | 4962.7  | 5008.7  | 5161.8  | 5044.4  | 4625.7  | 4579.8  | 3987.5  |
| 15°   | 5447.8  | 5442.7  | 5391.6  | 5391.6  | 5345.6  | 5269.1  | 5366.1  | 5452.9  | 5110.8  | 5054.6  | 4319.4  |
| 17.5° | 5759.2  | 5779.6  | 5774.5  | 5805.2  | 5789.8  | 5687.7  | 5636.7  | 5815.4  | 5611.1  | 5539.7  | 4697.2  |
| 20°   | 6009.4  | 6065.5  | 6086.0  | 6183.0  | 6228.9  | 6157.5  | 6024.7  | 6137.0  | 6091.1  | 6024.7  | 5080.2  |
| 22.5° | 6274.9  | 6320.8  | 6356.6  | 6525.1  | 6652.7  | 6637.4  | 6468.9  | 6443.4  | 6555.7  | 6494.4  | 5458.0  |
| 25°   | 6540.4  | 6560.8  | 6668.0  | 6872.2  | 7076.5  | 7127.5  | 6953.9  | 6754.8  | 6974.4  | 6918.2  | 5794.9  |
| 27.5° | 6831.4  | 6841.6  | 6969.3  | 7219.4  | 7505.3  | 7612.6  | 7474.7  | 7107.1  | 7296.0  | 7296.0  | 6101.3  |
| 30°   | 7362.4  | 7464.5  | 7515.6  | 7740.2  | 7990.4  | 8138.5  | 7975.1  | 7479.8  | 7581.9  | 7627.9  | 6422.9  |
| 32.5° | 8506.1  | 8521.4  | 8506.1  | 8603.1  | 8654.1  | 8740.9  | 8552.0  | 7898.5  | 7873.0  | 7924.0  | 6739.5  |
| 35°   | 10252.2 | 10190.9 | 10027.6 | 9884.6  | 9588.5  | 9425.1  | 9180.0  | 8434.6  | 8230.4  | 8301.8  | 7050.9  |
| 37.5° | 12371.1 | 12284.3 | 11911.6 | 11472.5 | 10839.4 | 10185.8 | 9879.5  | 9088.1  | 8684.8  | 8776.7  | 7387.9  |
| 40°   | 14392.9 | 14336.7 | 13892.6 | 13351.4 | 12268.9 | 11150.8 | 10502.4 | 9639.5  | 9190.2  | 9226.0  | 7730.0  |
| 42.5° | 16057.4 | 16047.2 | 15674.4 | 15107.7 | 13719.0 | 12192.4 | 11237.6 | 10180.7 | 9721.2  | 9777.4  | 8087.4  |
| 45°   | 17318.5 | 17221.5 | 16945.8 | 16537.3 | 15123.0 | 13274.8 | 12126.0 | 11002.7 | 10573.9 | 10640.2 | 8623.5  |
| 47.5° | 17318.5 | 17333.8 | 17512.5 | 17471.6 | 16103.3 | 14290.8 | 13096.1 | 12039.2 | 11835.0 | 11896.2 | 9506.8  |
| 50°   | 15909.3 | 16052.3 | 16848.7 | 17517.6 | 16613.9 | 15082.2 | 14142.7 | 13336.0 | 13545.4 | 13637.3 | 11048.7 |
| 52.5° | 13121.6 | 13361.6 | 14745.2 | 16271.8 | 16236.1 | 15480.4 | 15225.1 | 14985.2 | 15924.6 | 16088.0 | 13325.8 |
| 55°   | 9971.4  | 10129.7 | 11932.0 | 13938.5 | 14592.0 | 15153.7 | 16169.7 | 17078.5 | 19074.8 | 19039.1 | 15638.7 |
| 57.5° | 7449.2  | 7597.3  | 9149.4  | 11375.5 | 12238.3 | 13739.4 | 16654.7 | 19473.1 | 22199.5 | 22337.4 | 17808.6 |
| 60°   | 5478.4  | 5590.7  | 6913.1  | 8740.9  | 9986.7  | 11574.6 | 16460.7 | 21831.9 | 25799.0 | 25640.7 | 19723.2 |
| 62.5° | 4053.9  | 4115.2  | 5069.9  | 6259.6  | 7913.8  | 9430.2  | 15240.5 | 23445.3 | 28673.5 | 28351.8 | 20790.3 |
| 65°   | 3134.9  | 3155.3  | 3650.6  | 4283.7  | 5754.1  | 7331.8  | 13422.8 | 23690.4 | 30261.4 | 29919.3 | 20769.9 |
| 66°   | 2792.8  | 2808.1  | 3170.6  | 3660.8  | 4896.3  | 6417.8  | 12626.3 | 23297.2 | 30511.5 | 30149.0 | 20514.6 |
| 67.5° | 2343.5  | 2333.3  | 2547.7  | 2869.4  | 3676.1  | 4952.5  | 11212.1 | 22148.4 | 30215.4 | 30031.6 | 19697.7 |
| 70°   | 1735.9  | 1741.0  | 1848.3  | 1924.8  | 2149.5  | 2741.8  | 8097.6  | 19212.7 | 27846.4 | 27836.2 | 17456.3 |
| 72.5° | 1286.6  | 1301.9  | 1383.6  | 1399.0  | 1342.8  | 1485.8  | 4666.6  | 15281.3 | 22276.1 | 22281.2 | 13050.1 |
| 75°   | 965.0   | 990.5   | 1016.0  | 1026.2  | 975.2   | 939.4   | 2108.6  | 10282.8 | 14653.3 | 14546.1 | 7387.9  |
| 77.5° | 735.2   | 745.4   | 765.9   | 750.5   | 740.3   | 648.4   | 878.2   | 5013.8  | 7234.7  | 6591.4  | 2394.6  |
| 80°   | 536.1   | 536.1   | 556.5   | 536.1   | 531.0   | 464.6   | 479.9   | 1608.3  | 2124.0  | 1766.6  | 515.7   |
| 82.5° | 337.0   | 331.9   | 347.2   | 342.1   | 331.9   | 296.1   | 280.8   | 449.3   | 490.1   | 439.1   | 250.2   |
| 85°   | 188.9   | 183.8   | 178.7   | 173.6   | 158.3   | 132.7   | 153.2   | 168.5   | 224.6   | 229.8   | 178.7   |
| 87.5° | 66.4    | 66.4    | 61.3    | 56.2    | 46.0    | 46.0    | 56.2    | 56.2    | 81.7    | 81.7    | 91.9    |
| 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°    | 3104.3  | 3104.3 | 3104.3 | 3104.3 | 3104.3 | 3104.3 | 3104.3 | 3104.3 | 3104.3 | 3104.3 | 3104.3 |
| 2.5°  | 3124.7  | 3068.5 | 2986.8 | 2879.6 | 2803.0 | 2726.4 | 2644.7 | 2598.8 | 2532.4 | 2517.1 | 2537.5 |
| 5°    | 3180.8  | 3078.7 | 2874.5 | 2649.8 | 2455.8 | 2282.2 | 2118.9 | 2021.8 | 1924.8 | 1889.1 | 1904.4 |
| 7.5°  | 3298.3  | 3124.7 | 2777.5 | 2415.0 | 2093.3 | 1832.9 | 1638.9 | 1526.6 | 1439.8 | 1404.1 | 1414.3 |
| 10°   | 3471.9  | 3206.4 | 2685.6 | 2149.5 | 1735.9 | 1460.2 | 1296.8 | 1225.4 | 1174.3 | 1153.9 | 1159.0 |
| 12.5° | 3681.2  | 3323.8 | 2568.2 | 1884.0 | 1429.6 | 1189.6 | 1113.0 | 1097.7 | 1087.5 | 1077.3 | 1082.4 |
| 15°   | 3916.1  | 3425.9 | 2430.3 | 1623.6 | 1189.6 | 1056.9 | 1031.3 | 1026.2 | 1021.1 | 1021.1 | 1021.1 |
| 17.5° | 4161.1  | 3517.8 | 2277.1 | 1378.5 | 1036.5 | 975.2  | 959.9  | 959.9  | 959.9  | 965.0  | 965.0  |
| 20°   | 4390.9  | 3589.3 | 2098.4 | 1159.0 | 949.7  | 898.6  | 888.4  | 888.4  | 893.5  | 898.6  | 898.6  |
| 22.5° | 4615.5  | 3619.9 | 1889.1 | 1005.8 | 878.2  | 832.2  | 816.9  | 816.9  | 816.9  | 822.0  | 822.0  |
| 25°   | 4809.6  | 3619.9 | 1679.8 | 908.8  | 816.9  | 771.0  | 750.5  | 745.4  | 750.5  | 750.5  | 750.5  |
| 27.5° | 4972.9  | 3604.6 | 1475.5 | 842.4  | 755.6  | 709.7  | 689.3  | 684.2  | 694.4  | 699.5  | 699.5  |
| 30°   | 5146.5  | 3584.2 | 1312.2 | 781.2  | 704.6  | 658.6  | 638.2  | 638.2  | 653.5  | 673.9  | 673.9  |
| 32.5° | 5315.0  | 3599.5 | 1184.5 | 730.1  | 653.5  | 617.8  | 597.4  | 602.5  | 633.1  | 663.7  | 663.7  |
| 35°   | 5493.7  | 3630.1 | 1107.9 | 694.4  | 617.8  | 582.0  | 566.7  | 582.0  | 612.7  | 643.3  | 643.3  |
| 37.5° | 5672.4  | 3665.9 | 1062.0 | 663.7  | 587.2  | 551.4  | 541.2  | 561.6  | 597.4  | 628.0  | 633.1  |
| 40°   | 5861.3  | 3696.5 | 1010.9 | 633.1  | 566.7  | 525.9  | 520.8  | 541.2  | 587.2  | 617.8  | 622.9  |
| 42.5° | 6096.2  | 3757.8 | 949.7  | 607.6  | 546.3  | 495.3  | 500.4  | 515.7  | 561.6  | 607.6  | 612.7  |
| 45°   | 6555.7  | 3951.8 | 888.4  | 582.0  | 520.8  | 479.9  | 469.7  | 479.9  | 531.0  | 582.0  | 592.3  |
| 47.5° | 7418.6  | 4390.9 | 822.0  | 556.5  | 495.3  | 469.7  | 428.9  | 439.1  | 485.0  | 541.2  | 546.3  |
| 50°   | 9072.8  | 5325.2 | 786.3  | 531.0  | 474.8  | 434.0  | 388.0  | 388.0  | 423.8  | 474.8  | 474.8  |
| 52.5° | 11651.2 | 6999.9 | 806.7  | 510.6  | 449.3  | 398.2  | 352.3  | 347.2  | 367.6  | 403.3  | 403.3  |
| 55°   | 14433.8 | 8837.9 | 883.3  | 490.1  | 418.7  | 377.8  | 326.8  | 301.2  | 316.6  | 337.0  | 337.0  |
| 57.5° | 16639.4 | 9762.1 | 1092.6 | 479.9  | 382.9  | 362.5  | 296.1  | 260.4  | 275.7  | 296.1  | 296.1  |
| 60°   | 17609.5 | 9220.9 | 1327.5 | 490.1  | 357.4  | 337.0  | 265.5  | 229.8  | 255.3  | 275.7  | 280.8  |
| 62.5° | 16823.2 | 7592.1 | 1424.5 | 464.6  | 321.7  | 301.2  | 260.4  | 214.4  | 245.1  | 260.4  | 265.5  |
| 65°   | 15123.0 | 5769.4 | 1113.0 | 403.3  | 296.1  | 260.4  | 234.9  | 204.2  | 229.8  | 245.1  | 245.1  |
| 66°   | 14316.3 | 5029.1 | 949.7  | 372.7  | 285.9  | 245.1  | 224.6  | 204.2  | 224.6  | 234.9  | 240.0  |
| 67.5° | 13065.4 | 3967.1 | 704.6  | 326.8  | 265.5  | 224.6  | 209.3  | 194.0  | 214.4  | 224.6  | 224.6  |
| 70°   | 10216.5 | 2363.9 | 423.8  | 255.3  | 229.8  | 199.1  | 188.9  | 178.7  | 194.0  | 199.1  | 199.1  |
| 72.5° | 6397.4  | 1123.2 | 270.6  | 188.9  | 194.0  | 188.9  | 158.3  | 168.5  | 173.6  | 178.7  | 178.7  |
| 75°   | 3099.1  | 444.2  | 183.8  | 137.9  | 158.3  | 178.7  | 127.6  | 148.1  | 153.2  | 163.4  | 158.3  |
| 77.5° | 862.9   | 214.4  | 117.4  | 102.1  | 137.9  | 137.9  | 97.0   | 117.4  | 137.9  | 173.6  | 158.3  |
| 80°   | 250.2   | 137.9  | 76.6   | 76.6   | 97.0   | 97.0   | 66.4   | 81.7   | 91.9   | 102.1  | 107.2  |
| 82.5° | 173.6   | 91.9   | 51.1   | 56.2   | 56.2   | 61.3   | 40.8   | 40.8   | 51.1   | 51.1   | 56.2   |
| 85°   | 137.9   | 40.8   | 30.6   | 35.7   | 25.5   | 30.6   | 20.4   | 20.4   | 25.5   | 20.4   | 20.4   |
| 87.5° | 56.2    | 20.4   | 20.4   | 20.4   | 15.3   | 15.3   | 10.2   | 5.1    | 5.1    | 5.1    | 5.1    |
| 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)