

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: P842049

Luminaire Tested: **ARCH4-260-740-U-T3-HSS**

Issue Date: 5/27/2024

### Test Information

Test Method: LM-79-08  
Report Number: P842049  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-26)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ARCH4-260-740-U-T3-HSS  
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 4000K, 1010mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE III  
OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 26902 lumens  
Efficiency: N/A  
Efficacy: 103.8 lumens/watt  
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G4

Input Watts (W): 259.2  
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



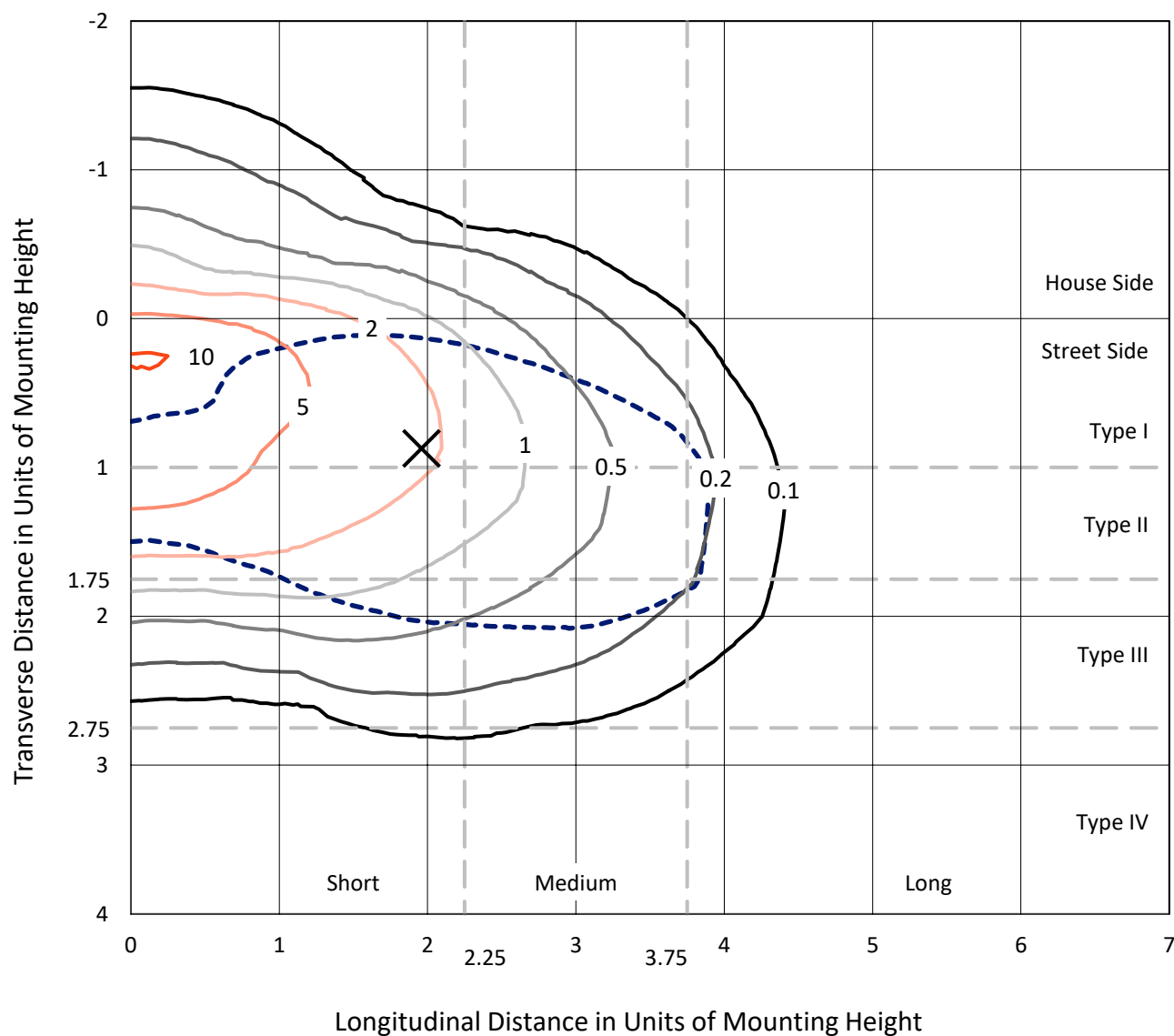
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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

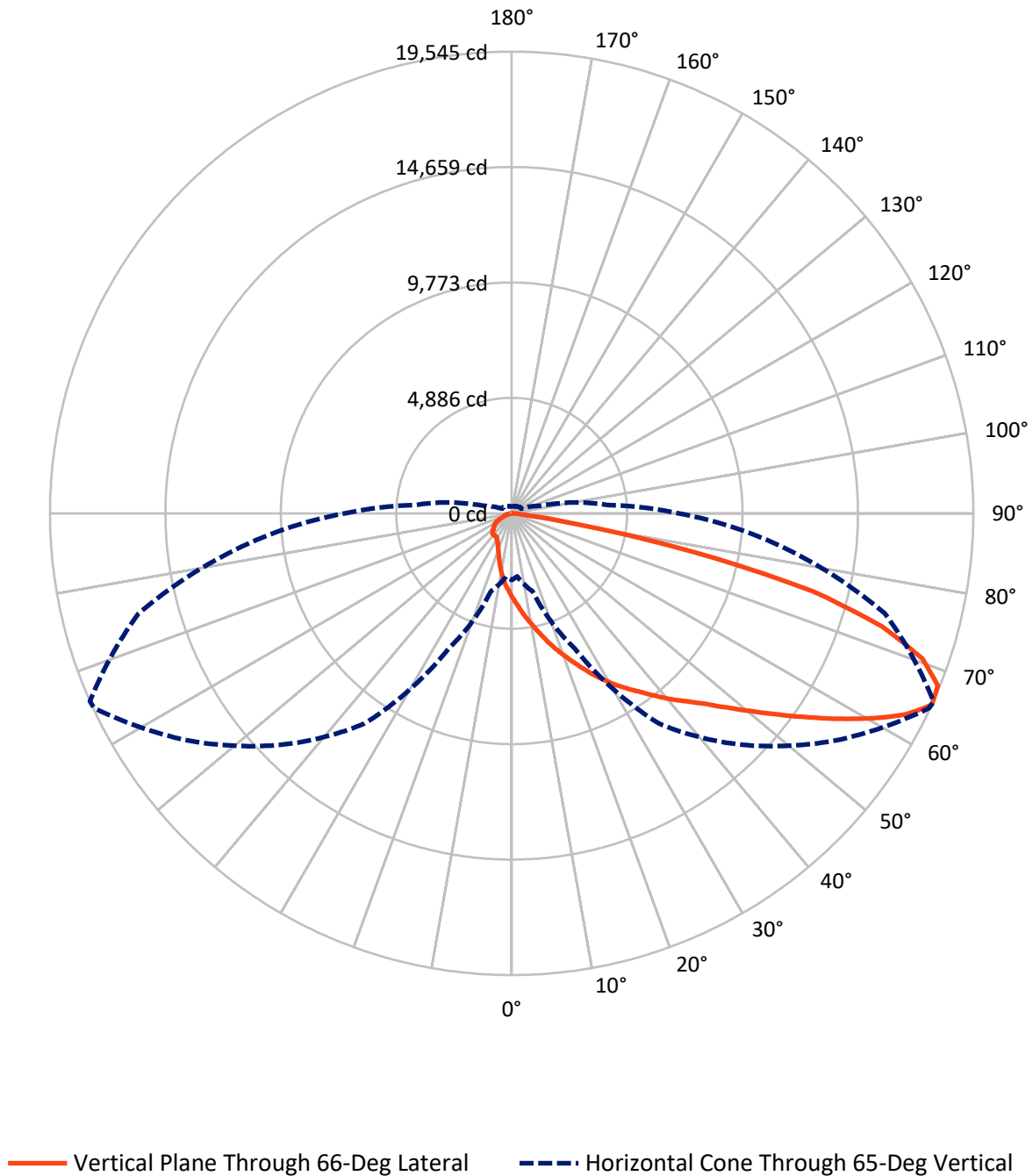


Based on 25 foot mounting height. Maximum calculated value = 10.3 fc

Type III - Short - N/A

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## Luminous Intensity Polar Plot



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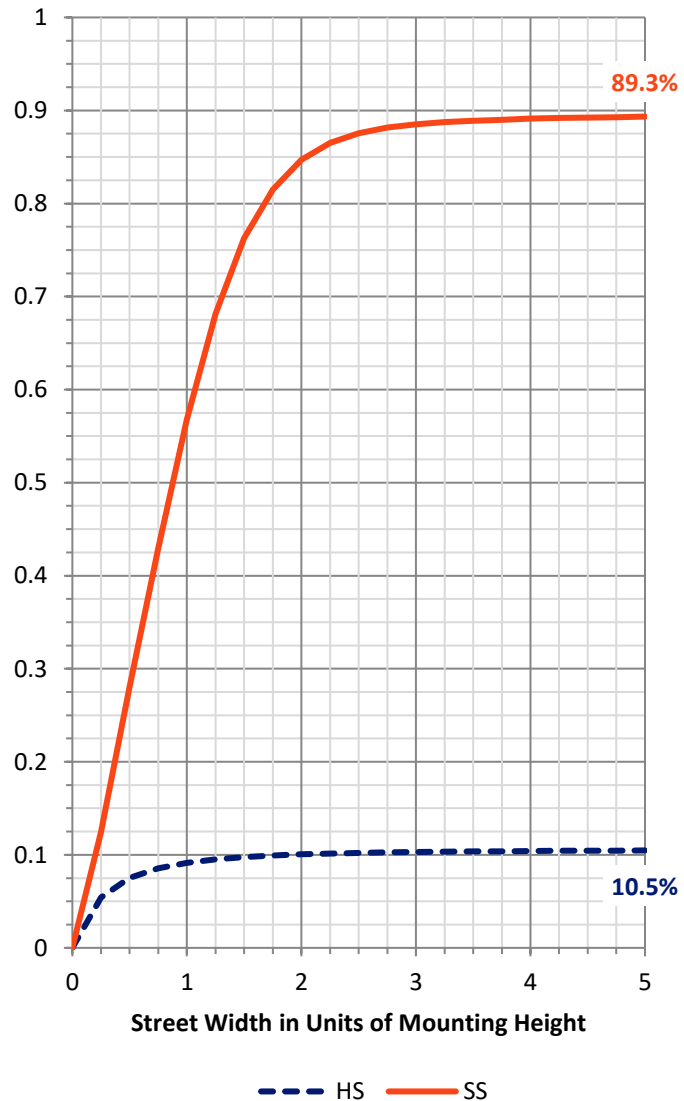
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 2845.5   | 0.0    | 2845.5  |
|                    | % Fixture | 10.6     | 0.0    | 10.6    |
| <b>Street Side</b> | Lumens    | 24056.5  | 0.0    | 24056.5 |
|                    | % Fixture | 89.4     | 0.0    | 89.4    |
| <b>Total</b>       | Lumens    | 26902.0  | 0.0    | 26902.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 351.4   | 1.3       |
| 10°-20°   | 1145.3  | 4.3       |
| 20°-30°   | 2072.3  | 7.7       |
| 30°-40°   | 3240.5  | 12.0      |
| 40°-50°   | 4915.8  | 18.3      |
| 50°-60°   | 6245.6  | 23.2      |
| 60°-70°   | 5835.9  | 21.7      |
| 70°-80°   | 2900.4  | 10.8      |
| 80°-90°   | 194.9   | 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°    | 26902.0 | 100.0     |
| 0°-180°   | 26902.0 | 100.0     |

**Coefficient of Utilization**



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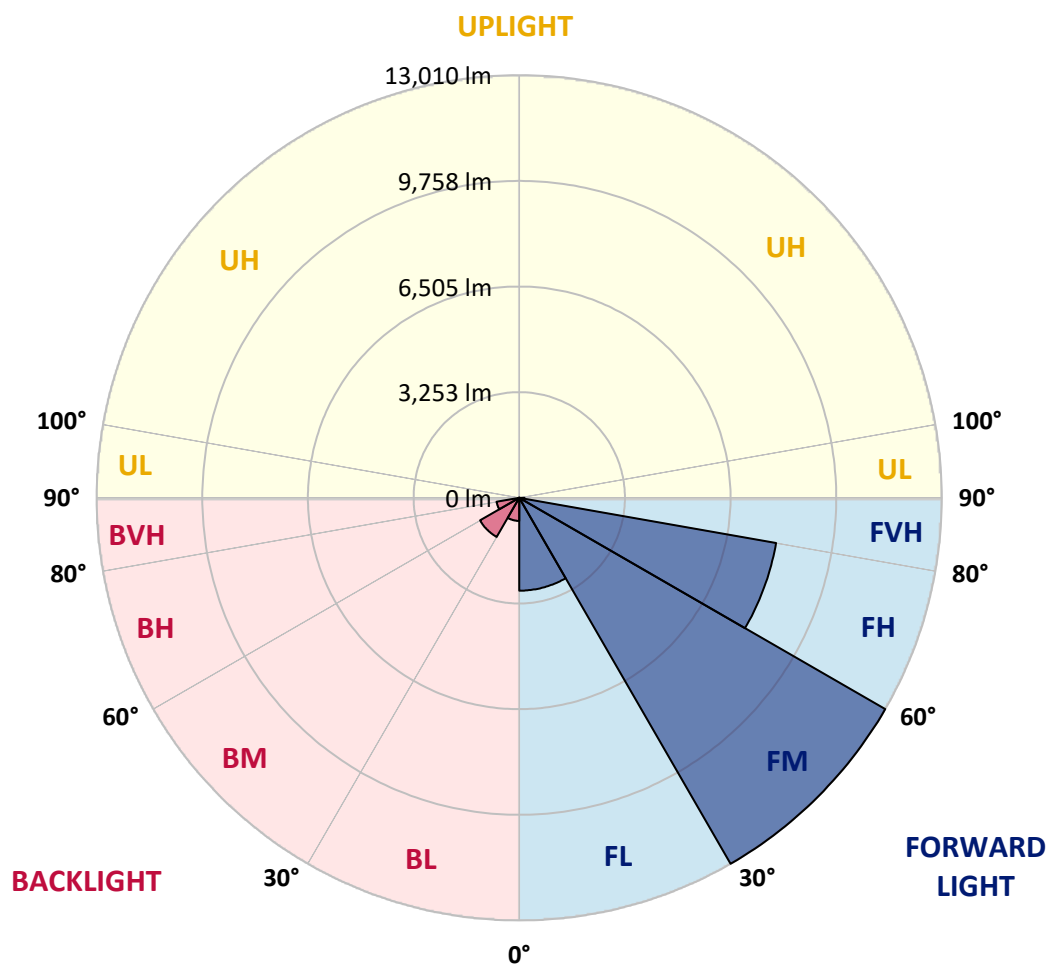
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|------|-------------|---------|-----------|-------------------------|------|----------|
|      |             |         |           | B                       | U    | G        |
| FL   | (0°-30°)    | 2858.3  | 10.6      |                         |      |          |
| FM   | (30°-60°)   | 13010.1 | 48.4      |                         |      |          |
| FH   | (60°-80°)   | 8027.7  | 29.8      |                         |      | G4/12000 |
| FVH  | (80°-90°)   | 160.4   | 0.6       |                         |      | G2/225   |
| BL   | (0°-30°)    | 710.7   | 2.6       | B2/1000                 |      |          |
| BM   | (30°-60°)   | 1391.7  | 5.2       | B2/2500                 |      |          |
| BH   | (60°-80°)   | 708.6   | 2.6       | B2/1000                 |      | G2/1000  |
| BVH  | (80°-90°)   | 34.5    | 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 III Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 66°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 3560.3  | 3560.3  | 3560.3  | 3560.3  | 3560.3  | 3560.3  | 3560.3  | 3560.3  | 3560.3  | 3560.3  | 3560.3  |
| 2.5°  | 4158.4  | 4192.3  | 4209.2  | 4214.8  | 4085.1  | 4028.6  | 3972.2  | 3842.5  | 3814.2  | 3740.9  | 3645.0  |
| 5°    | 4891.9  | 4937.1  | 4925.8  | 4903.2  | 4745.2  | 4564.7  | 4418.0  | 4175.3  | 4135.9  | 3960.9  | 3746.5  |
| 7.5°  | 5614.2  | 5653.6  | 5642.4  | 5557.7  | 5382.8  | 5128.9  | 4886.3  | 4530.8  | 4474.4  | 4192.3  | 3848.1  |
| 10°   | 6217.9  | 6251.7  | 6246.1  | 6161.5  | 5952.7  | 5642.4  | 5349.0  | 4875.0  | 4807.3  | 4406.7  | 3932.7  |
| 12.5° | 6714.4  | 6759.6  | 6753.9  | 6697.5  | 6511.3  | 6172.7  | 5839.8  | 5270.0  | 5185.3  | 4666.2  | 4051.2  |
| 15°   | 7103.7  | 7160.2  | 7160.2  | 7137.6  | 7007.8  | 6725.7  | 6347.7  | 5704.4  | 5602.9  | 4965.3  | 4197.9  |
| 17.5° | 7340.7  | 7385.9  | 7425.4  | 7464.8  | 7374.6  | 7160.2  | 6816.0  | 6138.9  | 6031.7  | 5258.7  | 4350.3  |
| 20°   | 7464.8  | 7510.0  | 7538.2  | 7622.8  | 7639.8  | 7532.6  | 7261.7  | 6567.7  | 6454.9  | 5591.6  | 4525.2  |
| 22.5° | 7668.0  | 7707.5  | 7713.1  | 7786.5  | 7820.3  | 7848.5  | 7679.3  | 6990.9  | 6900.6  | 5958.3  | 4722.7  |
| 25°   | 8006.5  | 8051.7  | 8034.7  | 8068.6  | 8074.2  | 8108.1  | 8091.2  | 7476.1  | 7385.9  | 6375.9  | 4959.6  |
| 27.5° | 8441.0  | 8497.4  | 8486.1  | 8452.3  | 8401.5  | 8373.3  | 8446.6  | 7967.0  | 7882.4  | 6793.4  | 5202.3  |
| 30°   | 8909.3  | 8977.0  | 8960.1  | 8892.4  | 8756.9  | 8638.5  | 8740.0  | 8429.7  | 8350.7  | 7222.2  | 5473.1  |
| 32.5° | 9383.3  | 9462.2  | 9456.6  | 9343.8  | 9112.4  | 8909.3  | 9061.6  | 8864.2  | 8807.7  | 7684.9  | 5766.5  |
| 35°   | 9693.6  | 9795.1  | 9783.9  | 9716.2  | 9417.1  | 9242.2  | 9428.4  | 9309.9  | 9270.4  | 8249.1  | 6189.7  |
| 37.5° | 10195.8 | 10303.0 | 10207.0 | 10037.8 | 9693.6  | 9603.3  | 9829.0  | 9812.1  | 9783.9  | 8847.2  | 6635.4  |
| 40°   | 11414.5 | 11572.5 | 11318.6 | 10624.6 | 10060.3 | 9981.3  | 10303.0 | 10370.7 | 10342.5 | 9439.7  | 7036.0  |
| 42.5° | 12689.7 | 12926.7 | 12531.7 | 11572.5 | 10726.1 | 10438.4 | 10822.1 | 10918.0 | 10884.1 | 9947.5  | 7397.1  |
| 45°   | 13462.7 | 13564.2 | 13169.3 | 12424.5 | 11905.4 | 10991.3 | 11375.0 | 11533.0 | 11504.8 | 10556.9 | 7859.8  |
| 47.5° | 14094.6 | 14055.1 | 13603.7 | 13101.6 | 13197.5 | 11770.0 | 12001.3 | 12311.6 | 12289.1 | 11228.3 | 8367.6  |
| 50°   | 14230.0 | 14139.8 | 13959.2 | 13643.2 | 13897.1 | 12559.9 | 12661.5 | 13197.5 | 13174.9 | 11973.1 | 8881.1  |
| 52.5° | 13276.5 | 13158.0 | 13648.9 | 13914.1 | 13829.4 | 13135.4 | 13389.3 | 14168.0 | 14156.7 | 12780.0 | 9372.0  |
| 55°   | 10895.4 | 10799.5 | 12119.8 | 13490.9 | 13756.1 | 13541.7 | 14196.2 | 15178.0 | 15240.0 | 13637.6 | 9817.7  |
| 57.5° | 8570.8  | 8469.2  | 9766.9  | 12430.1 | 13485.3 | 13914.1 | 15138.5 | 16334.6 | 16413.6 | 14568.6 | 10240.9 |
| 60°   | 6832.9  | 6680.6  | 7673.6  | 10760.0 | 12977.4 | 14201.8 | 16046.9 | 17604.2 | 17615.5 | 15420.6 | 10500.4 |
| 62.5° | 4643.7  | 4474.4  | 5574.7  | 8644.1  | 12125.4 | 14247.0 | 16746.5 | 18698.8 | 18743.9 | 16058.2 | 10545.6 |
| 65°   | 2821.2  | 2680.1  | 3424.9  | 6313.8  | 10867.2 | 13863.3 | 16757.8 | 19505.7 | 19545.2 | 16351.6 | 10274.7 |
| 67.5° | 1636.3  | 1579.9  | 1957.9  | 3932.7  | 8779.5  | 12830.7 | 16052.5 | 19381.5 | 19454.9 | 16227.4 | 9659.7  |
| 70°   | 953.6   | 947.9   | 1089.0  | 1946.6  | 6195.3  | 10782.6 | 14478.3 | 18337.7 | 18444.9 | 15578.6 | 8717.5  |
| 72.5° | 699.7   | 710.9   | 767.4   | 1043.8  | 3588.5  | 7763.9  | 12260.9 | 16238.7 | 16402.4 | 14309.0 | 7374.6  |
| 75°   | 553.0   | 558.6   | 609.4   | 710.9   | 1884.5  | 4389.8  | 9185.8  | 13033.9 | 13163.6 | 12046.4 | 5760.9  |
| 77.5° | 411.9   | 423.2   | 462.7   | 502.2   | 874.6   | 2014.3  | 5168.4  | 8029.1  | 7814.7  | 6612.9  | 2781.7  |
| 80°   | 299.0   | 327.3   | 344.2   | 361.1   | 462.7   | 778.6   | 1551.7  | 2798.6  | 2776.0  | 2888.9  | 1314.7  |
| 82.5° | 191.8   | 214.4   | 231.3   | 242.6   | 276.5   | 372.4   | 462.7   | 626.3   | 677.1   | 1122.8  | 524.7   |
| 85°   | 84.6    | 95.9    | 107.2   | 129.8   | 118.5   | 129.8   | 191.8   | 124.1   | 107.2   | 169.3   | 95.9    |
| 87.5° | 0.0     | 0.0     | 16.9    | 28.2    | 22.6    | 11.3    | 33.9    | 22.6    | 16.9    | 16.9    | 16.9    |
| 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°    | 3560.3 | 3560.3 | 3560.3 | 3560.3 | 3560.3 | 3560.3 | 3560.3 | 3560.3 | 3560.3 | 3560.3 | 3560.3 |
| 2.5°  | 3594.2 | 3532.1 | 3402.3 | 3278.2 | 3204.9 | 3108.9 | 3024.3 | 2945.3 | 2939.7 | 2917.1 | 2877.6 |
| 5°    | 3639.3 | 3520.8 | 3278.2 | 3046.9 | 2872.0 | 2685.8 | 2527.8 | 2403.6 | 2358.5 | 2324.7 | 2279.5 |
| 7.5°  | 3684.5 | 3498.3 | 3137.2 | 2798.6 | 2522.1 | 2262.6 | 2076.4 | 1907.1 | 1856.3 | 1811.2 | 1783.0 |
| 10°   | 3701.4 | 3458.8 | 2973.5 | 2522.1 | 2161.0 | 1884.5 | 1687.1 | 1562.9 | 1517.8 | 1495.2 | 1478.3 |
| 12.5° | 3752.2 | 3436.2 | 2821.2 | 2262.6 | 1845.1 | 1591.1 | 1450.1 | 1376.7 | 1359.8 | 1342.9 | 1326.0 |
| 15°   | 3819.9 | 3436.2 | 2668.8 | 2008.7 | 1596.8 | 1393.7 | 1309.0 | 1258.2 | 1247.0 | 1241.3 | 1230.0 |
| 17.5° | 3893.2 | 3436.2 | 2522.1 | 1794.3 | 1416.2 | 1263.9 | 1201.8 | 1173.6 | 1168.0 | 1162.3 | 1156.7 |
| 20°   | 3994.8 | 3441.8 | 2364.2 | 1608.1 | 1286.5 | 1168.0 | 1117.2 | 1083.3 | 1077.7 | 1072.0 | 1072.0 |
| 22.5° | 4096.4 | 3453.1 | 2211.8 | 1467.0 | 1201.8 | 1094.6 | 1032.6 | 998.7  | 987.4  | 987.4  | 987.4  |
| 25°   | 4226.1 | 3487.0 | 2070.7 | 1348.5 | 1128.5 | 1026.9 | 947.9  | 919.7  | 914.1  | 914.1  | 908.4  |
| 27.5° | 4378.5 | 3526.5 | 1946.6 | 1258.2 | 1055.1 | 947.9  | 868.9  | 840.7  | 829.4  | 829.4  | 823.8  |
| 30°   | 4542.1 | 3566.0 | 1845.1 | 1190.5 | 981.8  | 868.9  | 795.6  | 761.7  | 750.4  | 756.1  | 750.4  |
| 32.5° | 4722.7 | 3622.4 | 1766.1 | 1145.4 | 914.1  | 801.2  | 733.5  | 694.0  | 688.4  | 688.4  | 682.7  |
| 35°   | 5027.3 | 3780.4 | 1754.8 | 1122.8 | 857.6  | 750.4  | 682.7  | 643.2  | 637.6  | 637.6  | 631.9  |
| 37.5° | 5354.6 | 3960.9 | 1805.6 | 1111.5 | 812.5  | 705.3  | 643.2  | 603.7  | 598.1  | 598.1  | 598.1  |
| 40°   | 5631.1 | 4096.4 | 1862.0 | 1111.5 | 784.3  | 665.8  | 609.4  | 575.5  | 575.5  | 575.5  | 575.5  |
| 42.5° | 5817.3 | 4107.6 | 1850.7 | 1111.5 | 761.7  | 637.6  | 586.8  | 553.0  | 553.0  | 558.6  | 553.0  |
| 45°   | 6093.8 | 4164.1 | 1805.6 | 1094.6 | 744.8  | 615.0  | 564.2  | 536.0  | 530.4  | 536.0  | 536.0  |
| 47.5° | 6421.0 | 4265.6 | 1760.4 | 1026.9 | 739.1  | 592.4  | 547.3  | 513.5  | 507.8  | 513.5  | 507.8  |
| 50°   | 6731.3 | 4355.9 | 1737.8 | 936.6  | 727.9  | 569.9  | 524.7  | 490.9  | 485.2  | 490.9  | 485.2  |
| 52.5° | 6990.9 | 4395.4 | 1698.4 | 874.6  | 699.7  | 547.3  | 502.2  | 468.3  | 457.0  | 462.7  | 462.7  |
| 55°   | 7199.7 | 4384.1 | 1641.9 | 823.8  | 648.9  | 524.7  | 474.0  | 445.7  | 428.8  | 428.8  | 423.2  |
| 57.5° | 7391.5 | 4389.8 | 1591.1 | 773.0  | 592.4  | 490.9  | 451.4  | 417.5  | 395.0  | 389.3  | 383.7  |
| 60°   | 7464.8 | 4361.5 | 1500.9 | 705.3  | 536.0  | 462.7  | 423.2  | 383.7  | 361.1  | 355.5  | 349.8  |
| 62.5° | 7363.3 | 4260.0 | 1382.4 | 586.8  | 485.2  | 428.8  | 395.0  | 355.5  | 332.9  | 327.3  | 321.6  |
| 65°   | 7075.5 | 4068.1 | 1201.8 | 462.7  | 440.1  | 389.3  | 361.1  | 332.9  | 304.7  | 293.4  | 287.8  |
| 67.5° | 6584.6 | 3791.7 | 976.1  | 372.4  | 389.3  | 355.5  | 338.5  | 304.7  | 270.8  | 259.5  | 253.9  |
| 70°   | 5885.0 | 3424.9 | 733.5  | 316.0  | 344.2  | 316.0  | 304.7  | 270.8  | 242.6  | 231.3  | 225.7  |
| 72.5° | 4903.2 | 2832.5 | 513.5  | 270.8  | 299.0  | 276.5  | 265.2  | 242.6  | 214.4  | 197.5  | 197.5  |
| 75°   | 3707.0 | 2031.3 | 338.5  | 231.3  | 248.3  | 237.0  | 220.1  | 203.1  | 186.2  | 174.9  | 169.3  |
| 77.5° | 1596.8 | 789.9  | 208.8  | 174.9  | 203.1  | 197.5  | 174.9  | 163.6  | 158.0  | 146.7  | 146.7  |
| 80°   | 688.4  | 321.6  | 129.8  | 129.8  | 146.7  | 141.1  | 135.4  | 124.1  | 124.1  | 118.5  | 112.8  |
| 82.5° | 253.9  | 129.8  | 79.0   | 95.9   | 107.2  | 95.9   | 95.9   | 95.9   | 95.9   | 90.3   | 90.3   |
| 85°   | 62.1   | 39.5   | 39.5   | 56.4   | 62.1   | 56.4   | 62.1   | 56.4   | 56.4   | 56.4   | 50.8   |
| 87.5° | 16.9   | 16.9   | 22.6   | 22.6   | 22.6   | 22.6   | 22.6   | 16.9   | 0.0    | 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)