

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: P1211462

Luminaire Tested: **ARCH4-280-740-U-T3RE-HSS**

Issue Date: 11/5/2025

### Test Information

Test Method: LM-79-08  
Report Number: P1211462  
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: ARCH4-280-740-U-T3RE-HSS  
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 4000K, 1085mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE III  
ROADWAY ILLUMINANCE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 28823 lumens  
Efficiency: N/A  
Efficacy: 103.0 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): 279.7  
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

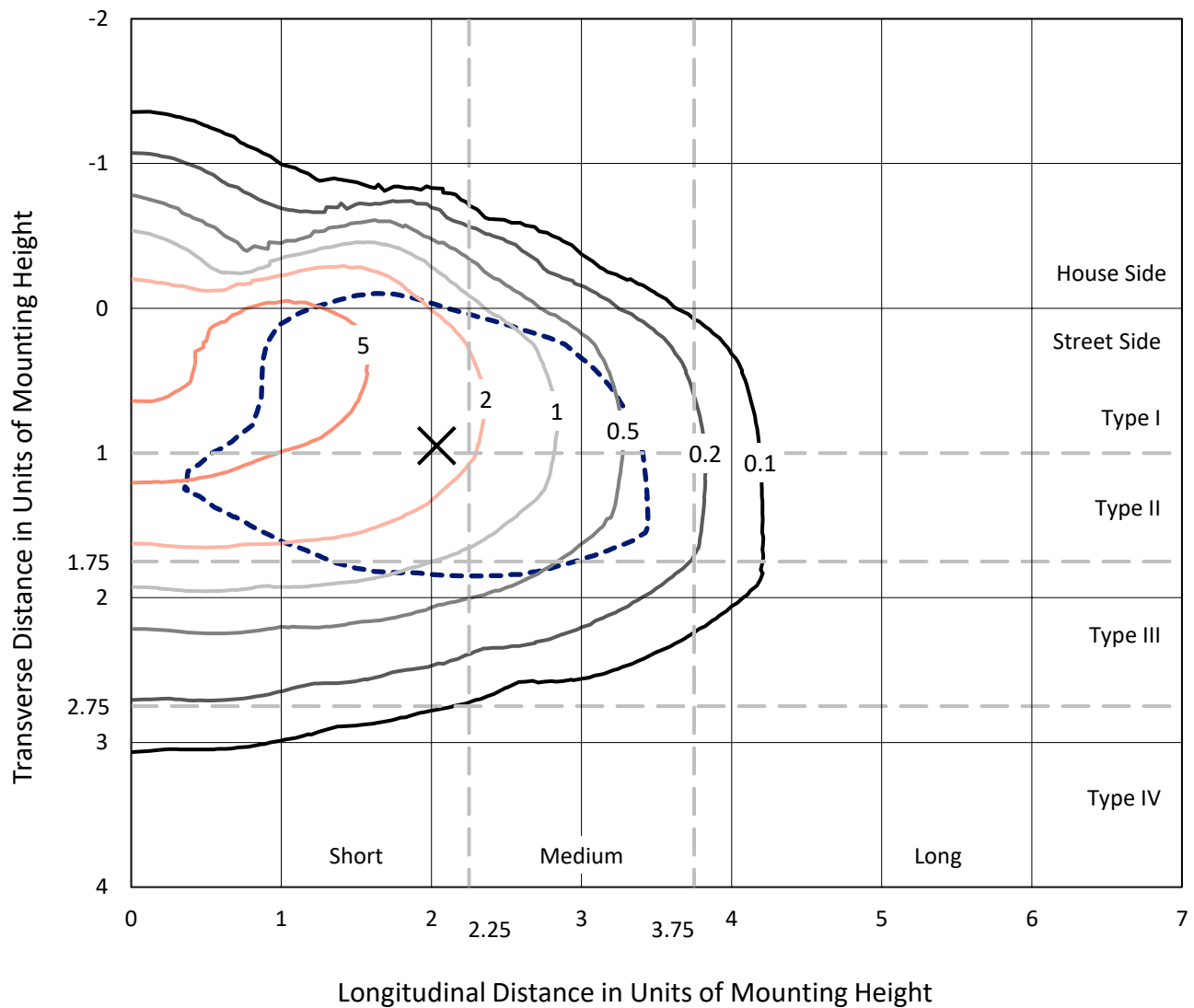


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## Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
- - - 1/2 Max cd

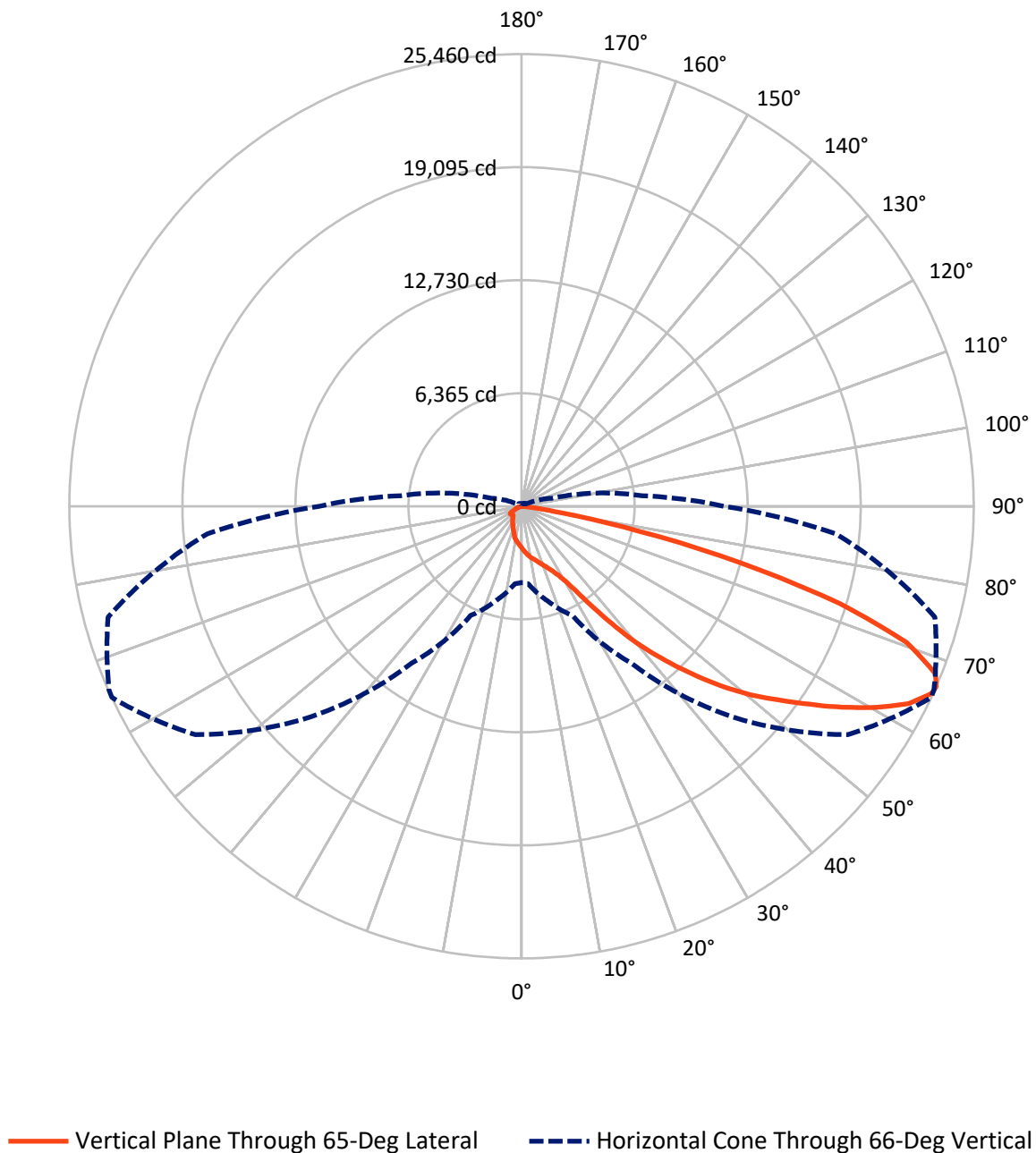


Based on 25 foot mounting height. Maximum calculated value = 7.9 fc  
Type III - Short - N/A

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## Luminous Intensity Polar Plot



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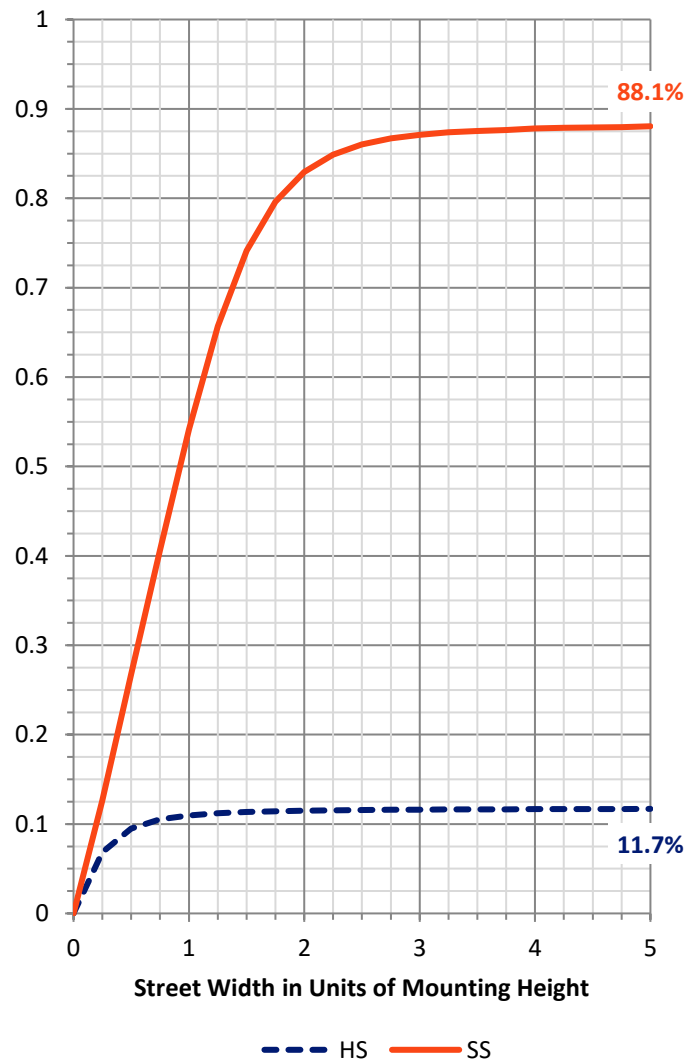
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 3401.7   | 0.0    | 3401.7  |
|                    | % Fixture | 11.8     | 0.0    | 11.8    |
| <b>Street Side</b> | Lumens    | 25421.3  | 0.0    | 25421.3 |
|                    | % Fixture | 88.2     | 0.0    | 88.2    |
| <b>Total</b>       | Lumens    | 28823.0  | 0.0    | 28823.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 222.6   | 0.8       |
| 10°-20°   | 659.0   | 2.3       |
| 20°-30°   | 1206.2  | 4.2       |
| 30°-40°   | 2451.0  | 8.5       |
| 40°-50°   | 5175.8  | 18.0      |
| 50°-60°   | 7956.9  | 27.6      |
| 60°-70°   | 8009.2  | 27.8      |
| 70°-80°   | 2992.7  | 10.4      |
| 80°-90°   | 149.5   | 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°    | 28823.0 | 100.0     |
| 0°-180°   | 28823.0 | 100.0     |

**Coefficient of Utilization**



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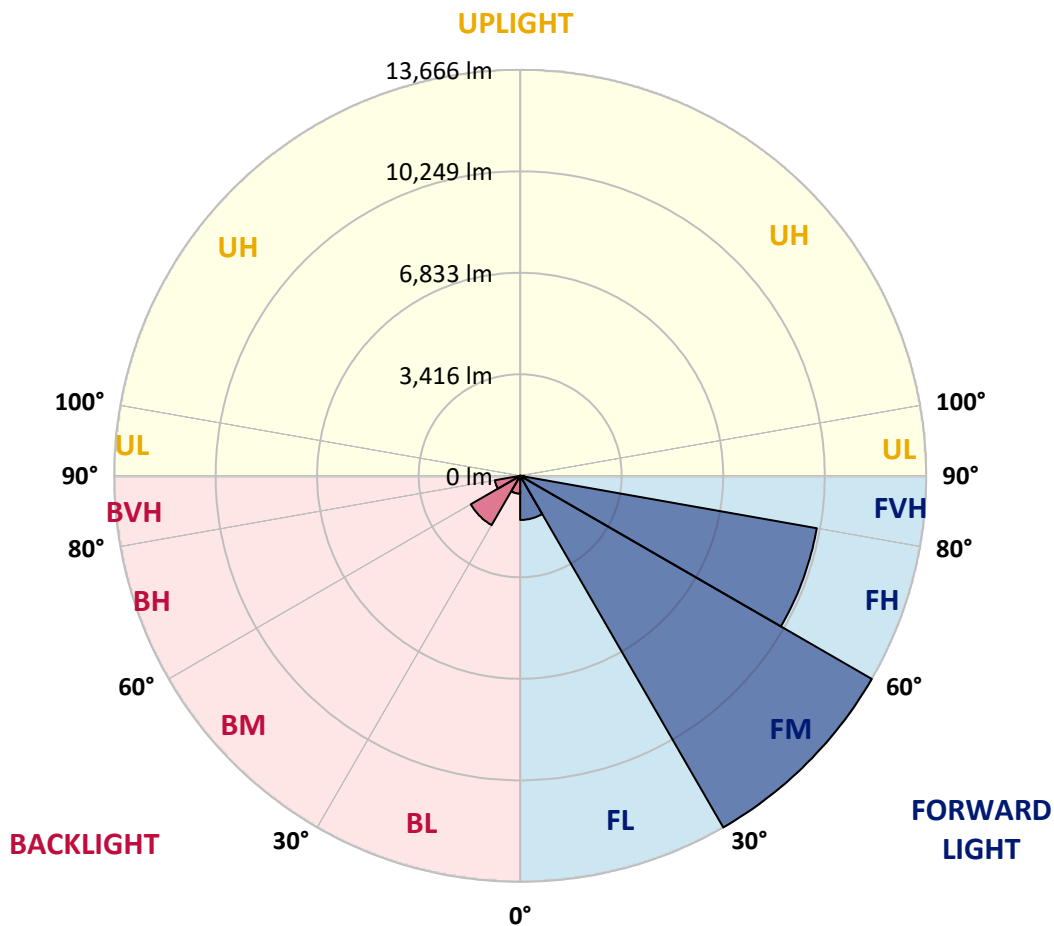
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|------|-------------|---------|-----------|-------------------------|------|----------|
|      |             |         |           | B                       | U    | G        |
| FL   | (0°-30°)    | 1485.8  | 5.2       |                         |      |          |
| FM   | (30°-60°)   | 13665.8 | 47.4      |                         |      |          |
| FH   | (60°-80°)   | 10137.7 | 35.2      |                         |      | G4/12000 |
| FVH  | (80°-90°)   | 131.9   | 0.5       |                         |      | G2/225   |
| BL   | (0°-30°)    | 602.1   | 2.1       | B2/1000                 |      |          |
| BM   | (30°-60°)   | 1917.9  | 6.7       | B2/2500                 |      |          |
| BH   | (60°-80°)   | 864.1   | 3.0       | B2/1000                 |      | G2/1000  |
| BVH  | (80°-90°)   | 17.6    | 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-G4**

Type III Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 66°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 2348.3  | 2348.3  | 2348.3  | 2348.3  | 2348.3  | 2348.3  | 2348.3  | 2348.3  | 2348.3  | 2348.3  | 2348.3  |
| 2.5°  | 2677.8  | 2683.0  | 2672.5  | 2651.6  | 2630.7  | 2604.5  | 2562.7  | 2494.7  | 2484.2  | 2437.2  | 2384.9  |
| 5°    | 2860.8  | 2871.3  | 2855.6  | 2850.3  | 2839.9  | 2803.3  | 2745.7  | 2646.4  | 2635.9  | 2541.8  | 2421.5  |
| 7.5°  | 2923.6  | 2939.3  | 2928.8  | 2928.8  | 2928.8  | 2913.1  | 2887.0  | 2798.0  | 2782.4  | 2662.1  | 2479.0  |
| 10°   | 2970.6  | 2981.1  | 2975.9  | 2996.8  | 3012.5  | 3002.0  | 2986.3  | 2934.0  | 2918.3  | 2798.0  | 2557.5  |
| 12.5° | 3043.9  | 3049.1  | 3054.3  | 3064.8  | 3090.9  | 3101.4  | 3096.2  | 3049.1  | 3038.6  | 2954.9  | 2656.8  |
| 15°   | 3111.8  | 3111.8  | 3117.1  | 3164.1  | 3200.8  | 3221.7  | 3226.9  | 3190.3  | 3179.8  | 3111.8  | 2782.4  |
| 17.5° | 3174.6  | 3179.8  | 3195.5  | 3247.8  | 3310.6  | 3352.4  | 3378.6  | 3362.9  | 3347.2  | 3294.9  | 2928.8  |
| 20°   | 3268.7  | 3279.2  | 3294.9  | 3368.1  | 3430.9  | 3498.9  | 3551.2  | 3545.9  | 3540.7  | 3504.1  | 3101.4  |
| 22.5° | 3430.9  | 3441.3  | 3467.5  | 3535.5  | 3598.2  | 3681.9  | 3770.8  | 3765.6  | 3749.9  | 3723.7  | 3305.4  |
| 25°   | 3676.7  | 3676.7  | 3692.4  | 3749.9  | 3828.3  | 3927.7  | 4011.4  | 4027.1  | 4011.4  | 3995.7  | 3561.6  |
| 27.5° | 3985.2  | 3990.5  | 3990.5  | 4053.2  | 4126.5  | 4252.0  | 4356.6  | 4372.3  | 4372.3  | 4356.6  | 3906.8  |
| 30°   | 4414.1  | 4398.4  | 4388.0  | 4440.3  | 4518.7  | 4701.8  | 4884.8  | 4916.2  | 4900.5  | 4926.6  | 4393.2  |
| 32.5° | 5151.5  | 5125.4  | 5036.5  | 5046.9  | 5094.0  | 5345.0  | 5653.6  | 5763.4  | 5758.2  | 5805.3  | 5177.7  |
| 35°   | 6171.4  | 6119.1  | 5988.3  | 5878.5  | 5873.3  | 6145.2  | 6615.9  | 7029.1  | 7023.9  | 7186.0  | 6370.1  |
| 37.5° | 7322.0  | 7390.0  | 7144.2  | 6955.9  | 6898.4  | 7112.8  | 7719.5  | 8613.8  | 8660.9  | 8943.3  | 7933.9  |
| 40°   | 8859.6  | 8901.4  | 8587.6  | 8320.9  | 8048.9  | 8127.4  | 8927.6  | 10318.8 | 10402.4 | 10716.2 | 9497.7  |
| 42.5° | 10198.5 | 10240.3 | 10057.3 | 9733.0  | 9387.8  | 9241.4  | 10146.2 | 11866.8 | 11934.8 | 12368.9 | 11108.5 |
| 45°   | 11108.5 | 11139.9 | 11202.6 | 11234.0 | 10841.8 | 10538.4 | 11636.7 | 13456.8 | 13540.4 | 14042.5 | 12682.7 |
| 47.5° | 11819.8 | 11845.9 | 11971.4 | 12285.2 | 12206.8 | 11966.2 | 13153.4 | 15109.4 | 15130.3 | 15690.0 | 14215.1 |
| 50°   | 12149.3 | 12212.0 | 12520.6 | 13001.7 | 13346.9 | 13414.9 | 14800.9 | 16673.2 | 16730.7 | 17264.2 | 15663.8 |
| 52.5° | 11783.2 | 11804.1 | 12583.3 | 13488.1 | 14183.7 | 14874.1 | 16453.5 | 18121.9 | 18289.3 | 18686.7 | 16966.1 |
| 55°   | 10548.9 | 10700.6 | 11882.5 | 13472.4 | 14842.7 | 16260.0 | 18221.3 | 19685.7 | 19837.3 | 20088.4 | 18111.4 |
| 57.5° | 9115.9  | 9283.2  | 10721.5 | 12797.8 | 15125.1 | 17541.4 | 19858.3 | 21348.8 | 21453.4 | 21521.4 | 19162.7 |
| 60°   | 7876.4  | 8033.3  | 9513.3  | 11506.0 | 14842.7 | 18446.2 | 21380.2 | 23001.5 | 23090.4 | 22907.3 | 19690.9 |
| 62.5° | 6354.4  | 6511.3  | 8001.9  | 9795.8  | 13733.9 | 18629.2 | 22509.9 | 24471.1 | 24507.7 | 24010.9 | 19366.6 |
| 65°   | 4790.7  | 4895.3  | 6140.0  | 7677.6  | 11793.6 | 17656.4 | 22766.1 | 25386.4 | 25349.7 | 24329.9 | 18393.9 |
| 66°   | 4293.8  | 4382.7  | 5481.0  | 6788.5  | 10784.2 | 16767.3 | 22420.9 | 25459.6 | 25423.0 | 24094.5 | 17755.8 |
| 67.5° | 3702.8  | 3729.0  | 4633.8  | 5554.2  | 9021.7  | 14879.3 | 21369.7 | 25124.9 | 25156.2 | 23446.0 | 16589.5 |
| 70°   | 2892.2  | 2887.0  | 3410.0  | 3865.0  | 6160.9  | 10585.5 | 17823.8 | 23017.2 | 23168.8 | 20998.4 | 14147.1 |
| 72.5° | 1851.4  | 1788.7  | 2092.0  | 2364.0  | 3587.8  | 6145.2  | 12996.5 | 18760.0 | 19016.2 | 16495.4 | 10538.4 |
| 75°   | 1103.5  | 1040.8  | 1114.0  | 1182.0  | 1720.7  | 2954.9  | 7641.0  | 12766.4 | 13012.2 | 10575.0 | 6270.8  |
| 77.5° | 826.3   | 800.2   | 805.4   | 747.9   | 763.6   | 1108.8  | 3488.4  | 6746.7  | 6924.5  | 4330.4  | 2379.6  |
| 80°   | 632.8   | 564.8   | 528.2   | 554.4   | 502.1   | 439.3   | 1297.0  | 2322.1  | 2431.9  | 1025.1  | 496.8   |
| 82.5° | 423.6   | 366.1   | 339.9   | 371.3   | 319.0   | 245.8   | 313.8   | 449.8   | 439.3   | 277.2   | 193.5   |
| 85°   | 219.7   | 188.3   | 188.3   | 188.3   | 162.1   | 120.3   | 136.0   | 183.0   | 183.0   | 146.4   | 115.1   |
| 87.5° | 62.8    | 57.5    | 68.0    | 62.8    | 47.1    | 47.1    | 52.3    | 62.8    | 62.8    | 57.5    | 52.3    |
| 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°    | 2348.3  | 2348.3  | 2348.3 | 2348.3 | 2348.3 | 2348.3 | 2348.3 | 2348.3 | 2348.3 | 2348.3 | 2348.3 |
| 2.5°  | 2343.0  | 2322.1  | 2264.6 | 2222.7 | 2180.9 | 2144.3 | 2102.5 | 2092.0 | 2071.1 | 2076.3 | 2065.8 |
| 5°    | 2358.7  | 2301.2  | 2201.8 | 2107.7 | 2034.5 | 1971.7 | 1893.3 | 1861.9 | 1820.0 | 1804.3 | 1793.9 |
| 7.5°  | 2379.6  | 2296.0  | 2149.5 | 2018.8 | 1893.3 | 1767.7 | 1642.2 | 1569.0 | 1521.9 | 1501.0 | 1485.3 |
| 10°   | 2426.7  | 2316.9  | 2123.4 | 1919.4 | 1705.0 | 1527.2 | 1401.6 | 1349.3 | 1318.0 | 1312.7 | 1307.5 |
| 12.5° | 2489.5  | 2348.3  | 2097.2 | 1793.9 | 1511.5 | 1344.1 | 1265.7 | 1250.0 | 1244.7 | 1244.7 | 1239.5 |
| 15°   | 2583.6  | 2400.6  | 2055.4 | 1647.4 | 1359.8 | 1244.7 | 1208.1 | 1182.0 | 1171.5 | 1171.5 | 1171.5 |
| 17.5° | 2677.8  | 2463.3  | 1992.6 | 1495.8 | 1255.2 | 1182.0 | 1145.4 | 1129.7 | 1119.2 | 1124.4 | 1119.2 |
| 20°   | 2798.0  | 2536.5  | 1908.9 | 1365.0 | 1187.2 | 1129.7 | 1093.1 | 1077.4 | 1072.1 | 1072.1 | 1072.1 |
| 22.5° | 2934.0  | 2620.2  | 1804.3 | 1265.7 | 1129.7 | 1077.4 | 1040.8 | 1025.1 | 1014.6 | 1019.8 | 1019.8 |
| 25°   | 3117.1  | 2724.8  | 1694.5 | 1166.3 | 1072.1 | 1025.1 | 983.2  | 962.3  | 962.3  | 967.5  | 972.8  |
| 27.5° | 3352.4  | 2850.3  | 1584.7 | 1103.5 | 1019.8 | 972.8  | 925.7  | 904.8  | 910.0  | 920.5  | 920.5  |
| 30°   | 3697.6  | 3022.9  | 1474.9 | 1035.5 | 962.3  | 910.0  | 868.2  | 847.3  | 857.7  | 878.6  | 878.6  |
| 32.5° | 4189.2  | 3305.4  | 1380.7 | 957.1  | 878.6  | 821.1  | 779.3  | 763.6  | 789.7  | 831.6  | 831.6  |
| 35°   | 5067.9  | 3823.1  | 1323.2 | 878.6  | 789.7  | 721.7  | 669.4  | 653.7  | 690.4  | 742.7  | 742.7  |
| 37.5° | 6244.6  | 4654.7  | 1344.1 | 810.6  | 716.5  | 638.1  | 580.5  | 559.6  | 585.8  | 632.8  | 648.5  |
| 40°   | 7557.3  | 5658.8  | 1527.2 | 753.1  | 648.5  | 570.1  | 512.5  | 491.6  | 507.3  | 528.2  | 533.5  |
| 42.5° | 8870.1  | 6725.8  | 1872.3 | 711.3  | 596.2  | 512.5  | 460.2  | 444.5  | 455.0  | 460.2  | 465.5  |
| 45°   | 10177.6 | 7782.2  | 2306.4 | 685.1  | 549.1  | 465.5  | 413.2  | 413.2  | 418.4  | 418.4  | 418.4  |
| 47.5° | 11417.1 | 8812.5  | 2761.4 | 679.9  | 507.3  | 418.4  | 376.6  | 381.8  | 381.8  | 387.0  | 387.0  |
| 50°   | 12588.6 | 9733.0  | 3221.7 | 695.6  | 470.7  | 376.6  | 345.2  | 345.2  | 345.2  | 350.4  | 345.2  |
| 52.5° | 13566.6 | 10538.4 | 3702.8 | 721.7  | 434.1  | 345.2  | 313.8  | 313.8  | 313.8  | 319.0  | 313.8  |
| 55°   | 14492.3 | 11270.6 | 4194.4 | 758.3  | 402.7  | 319.0  | 287.6  | 277.2  | 277.2  | 282.4  | 277.2  |
| 57.5° | 15245.4 | 11757.0 | 4659.9 | 763.6  | 376.6  | 292.9  | 266.7  | 251.0  | 251.0  | 251.0  | 251.0  |
| 60°   | 15276.8 | 11474.6 | 4795.9 | 669.4  | 345.2  | 266.7  | 240.6  | 219.7  | 224.9  | 224.9  | 224.9  |
| 62.5° | 14277.9 | 9989.3  | 3854.5 | 502.1  | 308.6  | 240.6  | 219.7  | 198.7  | 198.7  | 198.7  | 198.7  |
| 65°   | 12316.6 | 7771.8  | 2259.4 | 397.5  | 266.7  | 214.4  | 193.5  | 177.8  | 177.8  | 177.8  | 172.6  |
| 66°   | 11396.1 | 6814.7  | 1731.1 | 360.9  | 251.0  | 209.2  | 188.3  | 172.6  | 167.4  | 162.1  | 162.1  |
| 67.5° | 9895.1  | 5386.9  | 1082.6 | 319.0  | 230.1  | 193.5  | 172.6  | 156.9  | 151.7  | 146.4  | 146.4  |
| 70°   | 7452.7  | 3420.4  | 528.2  | 245.8  | 198.7  | 167.4  | 151.7  | 136.0  | 130.7  | 125.5  | 120.3  |
| 72.5° | 5230.0  | 2003.1  | 277.2  | 188.3  | 162.1  | 146.4  | 130.7  | 115.1  | 109.8  | 104.6  | 104.6  |
| 75°   | 2954.9  | 967.5   | 183.0  | 136.0  | 130.7  | 120.3  | 109.8  | 94.1   | 88.9   | 88.9   | 88.9   |
| 77.5° | 1119.2  | 334.7   | 125.5  | 99.4   | 104.6  | 94.1   | 78.4   | 78.4   | 73.2   | 78.4   | 73.2   |
| 80°   | 292.9   | 146.4   | 78.4   | 73.2   | 78.4   | 68.0   | 57.5   | 62.8   | 62.8   | 62.8   | 62.8   |
| 82.5° | 156.9   | 83.7    | 47.1   | 52.3   | 47.1   | 47.1   | 36.6   | 41.8   | 47.1   | 41.8   | 47.1   |
| 85°   | 109.8   | 41.8    | 26.1   | 26.1   | 20.9   | 20.9   | 15.7   | 20.9   | 26.1   | 20.9   | 20.9   |
| 87.5° | 57.5    | 15.7    | 15.7   | 15.7   | 15.7   | 10.5   | 5.2    | 0.0    | 5.2    | 5.2    | 5.2    |
| 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)