

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: P1210649

Luminaire Tested: **ARCH3-190-727-U-T2RE**

Issue Date: 11/5/2025

### Test Information

Test Method: LM-79-08  
Report Number: P1210649  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/5/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ARCH3-190-727-U-T2RE  
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 2700K, 1440mA LIGHTSQUARE WITH 40 LEDS AND TYPE II ROADWAY  
ILLUMINANCE OPTICS  
Light Source: -  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 23099 lumens  
Efficiency: N/A  
Efficacy: 122.0 lumens/watt  
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 189.4  
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



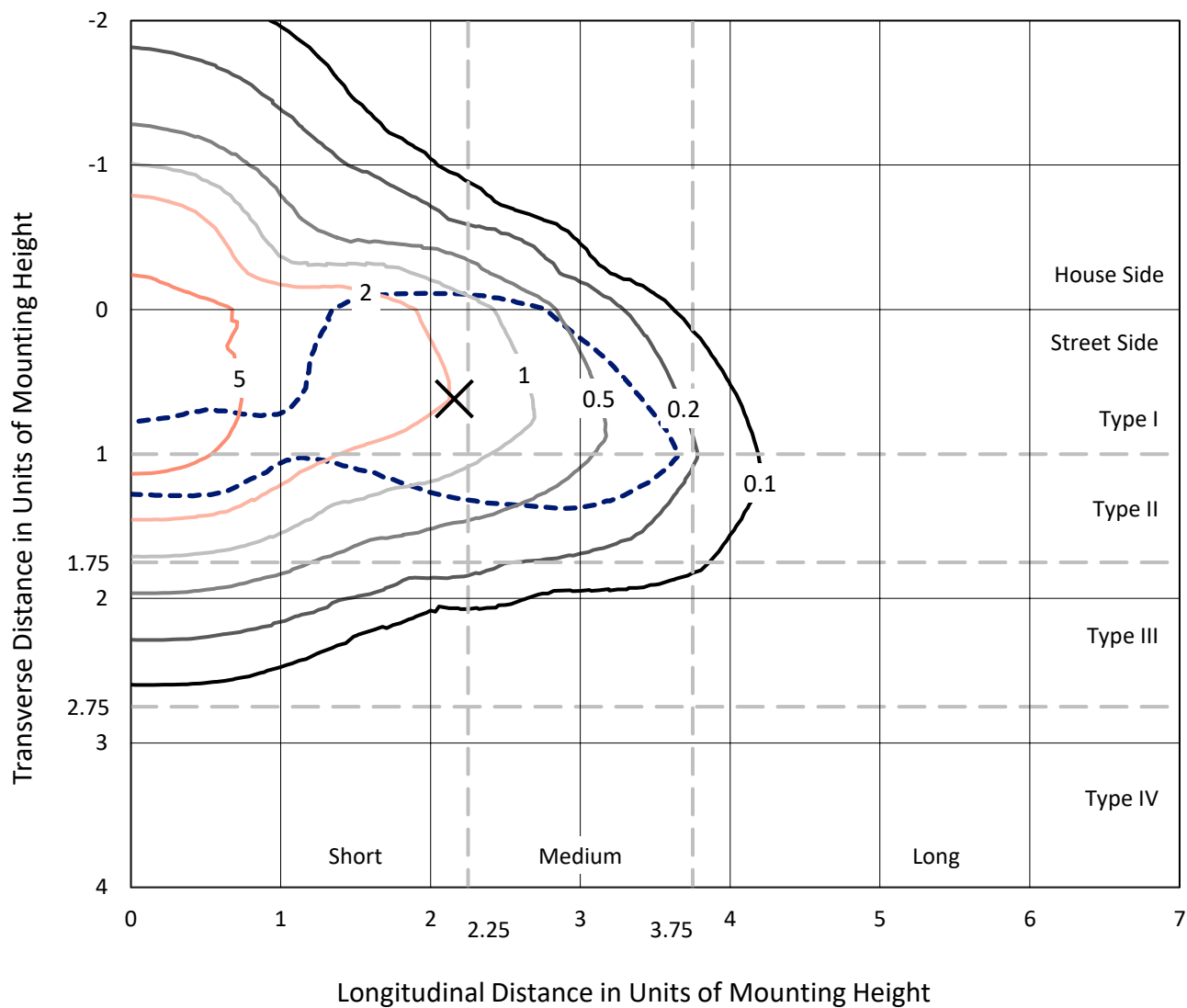
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## Iso-Footcandle Lines of Horizontal Illumination

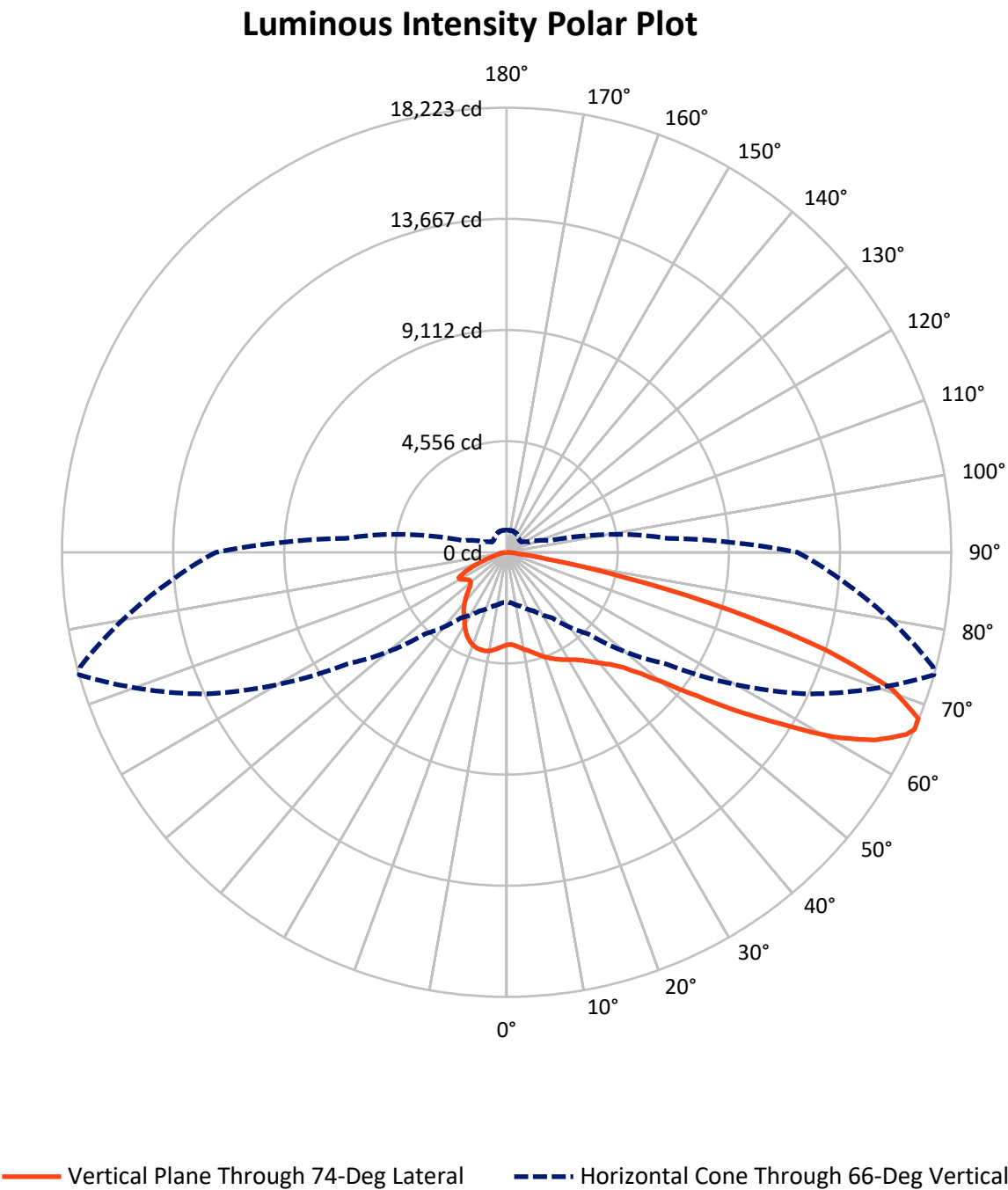
✕ Max cd

--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 fc  
 Type II - Short - N/A

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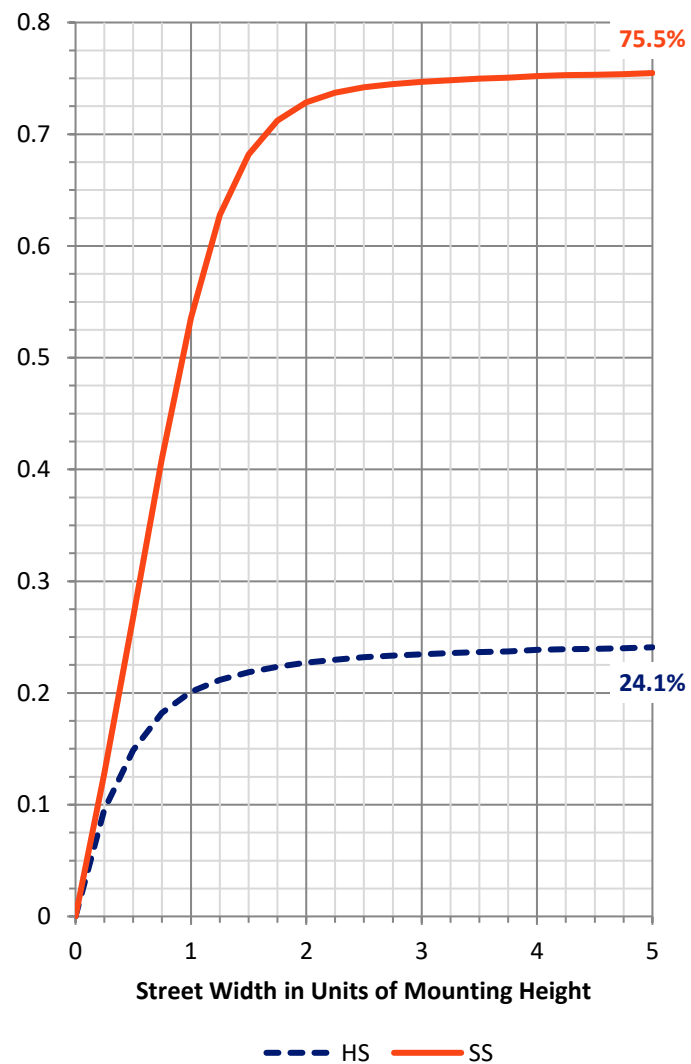
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 5625.2   | 0.0    | 5625.2  |
|                    | % Fixture | 24.4     | 0.0    | 24.4    |
| <b>Street Side</b> | Lumens    | 17473.8  | 0.0    | 17473.8 |
|                    | % Fixture | 75.6     | 0.0    | 75.6    |
| <b>Total</b>       | Lumens    | 23099.0  | 0.0    | 23099.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 361.2   | 1.6       |
| 10°-20°   | 1110.8  | 4.8       |
| 20°-30°   | 2084.5  | 9.0       |
| 30°-40°   | 3206.4  | 13.9      |
| 40°-50°   | 4312.9  | 18.7      |
| 50°-60°   | 5100.5  | 22.1      |
| 60°-70°   | 4718.2  | 20.4      |
| 70°-80°   | 1984.9  | 8.6       |
| 80°-90°   | 219.6   | 1.0       |
| 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°    | 23099.0 | 100.0     |
| 0°-180°   | 23099.0 | 100.0     |

**Coefficient of Utilization**



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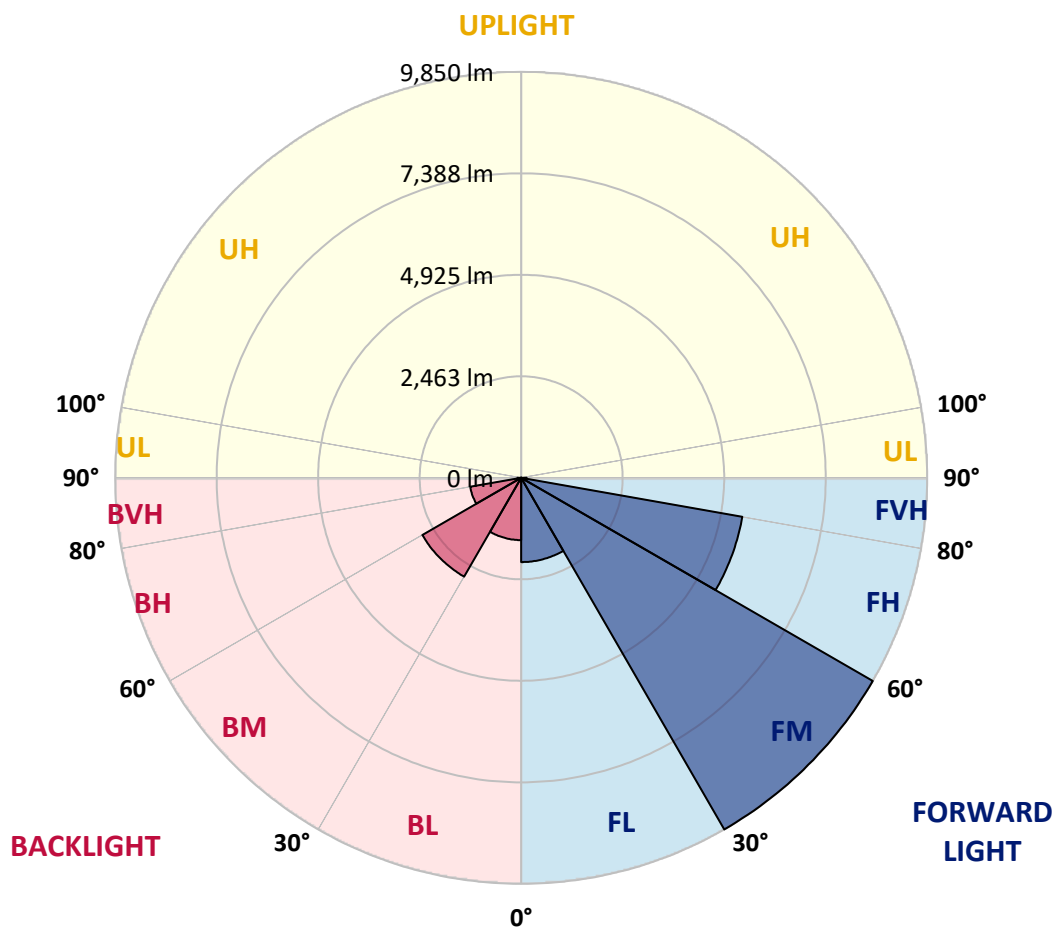
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 2044.5 | 8.9       |                         |      |         |
| FM   | (30°-60°)   | 9850.4 | 42.6      |                         |      |         |
| FH   | (60°-80°)   | 5447.4 | 23.6      |                         |      | G3/7500 |
| FVH  | (80°-90°)   | 131.4  | 0.6       |                         |      | G2/225  |
| BL   | (0°-30°)    | 1511.9 | 6.5       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 2769.3 | 12.0      | B3/5000                 |      |         |
| BH   | (60°-80°)   | 1255.7 | 5.4       | B3/2500                 |      | G3/2500 |
| BVH  | (80°-90°)   | 88.2   | 0.4       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G3**

Type II Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°    | 55°     | 65°     | 74°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|--------|---------|---------|---------|---------|---------|
| 0°    | 3786.7  | 3786.7  | 3786.7  | 3786.7  | 3786.7  | 3786.7 | 3786.7  | 3786.7  | 3786.7  | 3786.7  | 3786.7  |
| 2.5°  | 3774.8  | 3768.9  | 3780.7  | 3798.6  | 3807.5  | 3792.6 | 3786.7  | 3783.7  | 3783.7  | 3774.8  | 3789.7  |
| 5°    | 3596.5  | 3593.5  | 3620.2  | 3652.9  | 3715.4  | 3759.9 | 3819.4  | 3855.1  | 3843.2  | 3825.3  | 3837.2  |
| 7.5°  | 3364.6  | 3358.7  | 3391.4  | 3453.8  | 3540.0  | 3638.1 | 3783.7  | 3896.7  | 3941.3  | 3935.3  | 3932.3  |
| 10°   | 3453.8  | 3447.9  | 3444.9  | 3427.0  | 3456.8  | 3551.9 | 3703.5  | 3902.6  | 4054.2  | 4057.2  | 4060.1  |
| 12.5° | 3762.9  | 3777.8  | 3762.9  | 3706.4  | 3641.1  | 3605.4 | 3694.6  | 3917.5  | 4149.3  | 4167.1  | 4241.5  |
| 15°   | 4185.0  | 4170.1  | 4140.4  | 4075.0  | 3973.9  | 3866.9 | 3801.6  | 3985.8  | 4286.0  | 4300.9  | 4464.4  |
| 17.5° | 4556.5  | 4568.4  | 4550.6  | 4488.2  | 4369.3  | 4229.6 | 4030.4  | 4104.7  | 4431.7  | 4473.3  | 4702.2  |
| 20°   | 4960.7  | 5008.3  | 4984.5  | 4907.2  | 4809.2  | 4601.1 | 4351.4  | 4277.1  | 4592.2  | 4621.9  | 4948.9  |
| 22.5° | 5427.4  | 5477.9  | 5433.3  | 5359.0  | 5278.8  | 5023.2 | 4702.2  | 4488.2  | 4725.9  | 4788.4  | 5186.6  |
| 25°   | 5986.2  | 6033.7  | 5992.1  | 5876.2  | 5775.2  | 5463.1 | 5079.6  | 4725.9  | 4856.7  | 4925.1  | 5379.8  |
| 27.5° | 6429.1  | 6464.7  | 6503.4  | 6435.0  | 6280.4  | 5956.5 | 5472.0  | 4972.6  | 4987.5  | 5058.8  | 5558.2  |
| 30°   | 6824.4  | 6913.5  | 6946.2  | 6955.2  | 6824.4  | 6461.8 | 5873.2  | 5228.3  | 5100.4  | 5174.8  | 5736.5  |
| 32.5° | 7365.3  | 7499.1  | 7445.6  | 7499.1  | 7421.8  | 6937.3 | 6289.4  | 5492.8  | 5246.1  | 5314.4  | 5905.9  |
| 35°   | 8156.0  | 8263.0  | 8123.3  | 8081.6  | 7956.8  | 7418.8 | 6690.6  | 5766.2  | 5439.3  | 5513.6  | 6066.4  |
| 37.5° | 9006.0  | 9127.9  | 8925.8  | 8759.3  | 8521.5  | 7894.4 | 7035.4  | 6125.9  | 5706.8  | 5766.2  | 6215.1  |
| 40°   | 9749.1  | 9850.2  | 9674.8  | 9454.8  | 9056.6  | 8313.5 | 7332.6  | 6378.5  | 5974.3  | 6048.6  | 6387.4  |
| 42.5° | 10435.7 | 10501.1 | 10304.9 | 10093.9 | 9561.8  | 8691.0 | 7653.6  | 6646.0  | 6286.4  | 6357.7  | 6527.1  |
| 45°   | 11131.2 | 11181.7 | 10908.3 | 10608.1 | 9983.9  | 9035.8 | 8007.3  | 7020.5  | 6744.1  | 6839.2  | 6753.0  |
| 47.5° | 11256.1 | 11270.9 | 11223.4 | 11021.2 | 10316.8 | 9365.7 | 8444.3  | 7522.9  | 7442.6  | 7546.6  | 7142.4  |
| 50°   | 10391.1 | 10524.9 | 10819.1 | 11018.3 | 10450.6 | 9642.1 | 8881.2  | 8242.2  | 8405.6  | 8539.4  | 7950.9  |
| 52.5° | 8711.8  | 8839.6  | 9520.2  | 10275.2 | 10129.6 | 9704.5 | 9350.8  | 9154.6  | 9764.0  | 9924.5  | 9050.6  |
| 55°   | 6940.3  | 7053.2  | 7772.5  | 8860.4  | 9092.2  | 9419.2 | 9853.1  | 10319.8 | 11496.8 | 11603.8 | 10257.4 |
| 57.5° | 5715.7  | 5778.1  | 6292.3  | 7338.6  | 7710.1  | 8506.7 | 10123.6 | 11704.9 | 13259.4 | 13422.8 | 11306.6 |
| 60°   | 4687.3  | 4755.7  | 5139.1  | 6001.0  | 6494.4  | 7201.9 | 9909.6  | 13072.1 | 15363.8 | 15363.8 | 12653.0 |
| 62.5° | 3528.1  | 3587.6  | 3944.2  | 4618.9  | 5448.2  | 6096.2 | 9226.0  | 13978.7 | 16951.0 | 16879.6 | 13627.9 |
| 65°   | 2422.4  | 2470.0  | 2728.6  | 3177.4  | 3923.4  | 5195.6 | 8292.7  | 13990.6 | 18003.1 | 17908.0 | 14044.1 |
| 66°   | 2033.0  | 2074.7  | 2294.6  | 2657.2  | 3284.4  | 4714.0 | 7962.8  | 13737.9 | 18223.1 | 18089.3 | 13868.7 |
| 67.5° | 1605.0  | 1634.8  | 1780.4  | 1994.4  | 2407.6  | 3816.4 | 7442.6  | 13021.6 | 18202.3 | 18122.0 | 13422.8 |
| 70°   | 1147.3  | 1168.1  | 1275.1  | 1319.7  | 1423.7  | 2208.4 | 5911.9  | 11404.7 | 16742.9 | 16766.7 | 11669.2 |
| 72.5° | 888.7   | 921.4   | 986.8   | 995.7   | 971.9   | 1174.1 | 3587.6  | 9514.3  | 13696.3 | 13687.4 | 8661.2  |
| 75°   | 716.3   | 734.2   | 766.9   | 784.7   | 778.7   | 757.9  | 1518.8  | 7097.8  | 9428.1  | 9538.1  | 4850.8  |
| 77.5° | 564.7   | 561.8   | 591.5   | 615.3   | 633.1   | 594.5  | 695.5   | 4161.2  | 4942.9  | 4803.2  | 1822.0  |
| 80°   | 416.1   | 416.1   | 457.7   | 466.6   | 493.4   | 499.3  | 463.7   | 1605.0  | 1697.2  | 1542.6  | 472.6   |
| 82.5° | 273.5   | 273.5   | 318.0   | 324.0   | 350.7   | 389.4  | 335.9   | 481.5   | 469.6   | 445.8   | 214.0   |
| 85°   | 148.6   | 142.7   | 157.5   | 178.3   | 193.2   | 228.9  | 202.1   | 240.8   | 246.7   | 243.7   | 142.7   |
| 87.5° | 29.7    | 26.8    | 41.6    | 47.6    | 53.5    | 71.3   | 65.4    | 98.1    | 136.7   | 133.8   | 62.4    |
| 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°    | 3786.7  | 3786.7 | 3786.7 | 3786.7 | 3786.7 | 3786.7 | 3786.7 | 3786.7 | 3786.7 | 3786.7 | 3786.7 |
| 2.5°  | 3810.5  | 3807.5 | 3840.2 | 3878.8 | 3923.4 | 3950.2 | 3962.1 | 3982.9 | 3968.0 | 3973.9 | 3991.8 |
| 5°    | 3866.9  | 3875.9 | 3923.4 | 3973.9 | 3994.8 | 3979.9 | 3947.2 | 3935.3 | 3908.6 | 3902.6 | 3896.7 |
| 7.5°  | 3950.2  | 3965.0 | 4012.6 | 4024.5 | 3962.1 | 3858.0 | 3783.7 | 3742.1 | 3697.5 | 3685.6 | 3679.7 |
| 10°   | 4086.9  | 4095.8 | 4107.7 | 3985.8 | 3831.3 | 3691.6 | 3599.4 | 3560.8 | 3531.1 | 3507.3 | 3513.2 |
| 12.5° | 4259.3  | 4253.3 | 4161.2 | 3908.6 | 3688.6 | 3545.9 | 3483.5 | 3459.7 | 3438.9 | 3424.1 | 3421.1 |
| 15°   | 4476.3  | 4434.7 | 4170.1 | 3801.6 | 3554.9 | 3436.0 | 3391.4 | 3382.5 | 3358.7 | 3358.7 | 3355.7 |
| 17.5° | 4696.2  | 4589.2 | 4164.2 | 3688.6 | 3427.0 | 3361.7 | 3334.9 | 3329.0 | 3323.0 | 3320.0 | 3329.0 |
| 20°   | 4916.2  | 4725.9 | 4116.6 | 3548.9 | 3337.9 | 3299.2 | 3293.3 | 3296.3 | 3290.3 | 3299.2 | 3293.3 |
| 22.5° | 5109.4  | 4815.1 | 4027.4 | 3400.3 | 3275.5 | 3272.5 | 3257.6 | 3263.6 | 3284.4 | 3287.3 | 3296.3 |
| 25°   | 5258.0  | 4847.8 | 3896.7 | 3263.6 | 3230.9 | 3224.9 | 3242.8 | 3266.5 | 3284.4 | 3287.3 | 3302.2 |
| 27.5° | 5379.8  | 4830.0 | 3733.2 | 3156.6 | 3153.6 | 3186.3 | 3239.8 | 3248.7 | 3251.7 | 3251.7 | 3239.8 |
| 30°   | 5472.0  | 4791.3 | 3525.1 | 3037.7 | 3052.5 | 3132.8 | 3183.3 | 3183.3 | 3159.5 | 3153.6 | 3171.4 |
| 32.5° | 5492.8  | 4740.8 | 3299.2 | 2915.8 | 2939.6 | 3034.7 | 3097.1 | 3076.3 | 3049.6 | 3049.6 | 3061.5 |
| 35°   | 5510.6  | 4672.4 | 3117.9 | 2749.4 | 2785.0 | 2898.0 | 2957.4 | 2915.8 | 2886.1 | 2877.2 | 2874.2 |
| 37.5° | 5504.7  | 4645.7 | 2954.5 | 2538.3 | 2585.9 | 2695.9 | 2734.5 | 2695.9 | 2651.3 | 2630.5 | 2657.2 |
| 40°   | 5510.6  | 4627.9 | 2749.4 | 2306.5 | 2354.1 | 2419.4 | 2470.0 | 2440.2 | 2398.6 | 2345.1 | 2371.9 |
| 42.5° | 5546.3  | 4651.6 | 2523.5 | 2080.6 | 2080.6 | 2116.3 | 2202.5 | 2181.7 | 2080.6 | 2059.8 | 2083.6 |
| 45°   | 5736.5  | 4779.4 | 2297.6 | 1854.7 | 1822.0 | 1845.8 | 1935.0 | 1845.8 | 1783.4 | 1783.4 | 1804.2 |
| 47.5° | 6197.2  | 5017.2 | 2098.4 | 1655.6 | 1578.3 | 1625.8 | 1649.6 | 1566.4 | 1518.8 | 1506.9 | 1527.8 |
| 50°   | 7136.5  | 5492.8 | 1979.5 | 1492.1 | 1397.0 | 1432.6 | 1417.8 | 1414.8 | 1367.3 | 1373.2 | 1385.1 |
| 52.5° | 8563.2  | 6420.1 | 1943.9 | 1411.8 | 1292.9 | 1301.9 | 1287.0 | 1292.9 | 1284.0 | 1313.8 | 1322.7 |
| 55°   | 10117.7 | 7398.0 | 1988.5 | 1423.7 | 1221.6 | 1159.2 | 1165.1 | 1194.9 | 1230.5 | 1278.1 | 1287.0 |
| 57.5° | 11279.8 | 7888.5 | 2104.4 | 1504.0 | 1132.4 | 1037.3 | 1052.2 | 1108.7 | 1177.0 | 1215.7 | 1236.5 |
| 60°   | 12144.8 | 7829.0 | 2273.8 | 1524.8 | 1025.4 | 927.4  | 954.1  | 1037.3 | 1096.8 | 1129.5 | 1150.3 |
| 62.5° | 12427.1 | 7457.5 | 2315.4 | 1373.2 | 885.7  | 823.3  | 888.7  | 974.9  | 1001.7 | 1037.3 | 1052.2 |
| 65°   | 12195.3 | 6931.4 | 2012.2 | 1114.6 | 778.7  | 746.0  | 841.2  | 906.5  | 942.2  | 960.0  | 963.0  |
| 66°   | 11921.8 | 6616.3 | 1848.8 | 1013.5 | 740.1  | 722.3  | 823.3  | 876.8  | 912.5  | 909.5  | 912.5  |
| 67.5° | 11321.4 | 5956.5 | 1584.2 | 870.9  | 683.6  | 686.6  | 793.6  | 829.3  | 841.2  | 832.2  | 832.2  |
| 70°   | 9279.5  | 4193.9 | 1135.4 | 659.8  | 600.4  | 642.0  | 713.3  | 722.3  | 749.0  | 737.1  | 737.1  |
| 72.5° | 5721.7  | 2059.8 | 760.9  | 505.3  | 535.0  | 600.4  | 597.4  | 627.2  | 689.6  | 707.4  | 719.3  |
| 75°   | 2811.8  | 835.2  | 502.3  | 428.0  | 478.5  | 502.3  | 496.4  | 570.7  | 659.8  | 737.1  | 763.9  |
| 77.5° | 1067.1  | 416.1  | 350.7  | 374.5  | 386.4  | 377.5  | 395.3  | 517.2  | 659.8  | 799.5  | 826.3  |
| 80°   | 329.9   | 288.3  | 276.4  | 309.1  | 291.3  | 276.4  | 297.2  | 428.0  | 558.8  | 606.3  | 606.3  |
| 82.5° | 199.1   | 225.9  | 214.0  | 211.0  | 196.2  | 199.1  | 214.0  | 306.1  | 431.0  | 451.8  | 451.8  |
| 85°   | 139.7   | 148.6  | 121.9  | 115.9  | 112.9  | 110.0  | 110.0  | 178.3  | 255.6  | 252.6  | 261.6  |
| 87.5° | 53.5    | 59.4   | 44.6   | 44.6   | 41.6   | 29.7   | 23.8   | 29.7   | 29.7   | 20.8   | 14.9   |
| 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)